

WITH MORE THAN 60 YEARS OF EXPERIENCE IN COMPRESSOR TECHNOLOGY AND HIGHLY DEDICATED EMPLOYEES, OUR FOCUS IS ON DEVELOPING AND

APPLYING ADVANCED COMPRESSOR TECHNOLOGIES TO ACHIEVE STANDARD SETTING PERFORMANCE FOR LEADING PRODUCTS AND BUSINESSES AROUND THE WORLD.

SECOP

HERMETIC COMPRESSORS FOR AC VOLTAGE AT 60 Hz

**R134a | R404A | R507
R290 | R600a**



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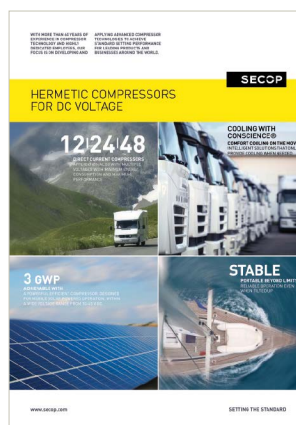
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Catalogue for AC Voltage Compressors:
 Refrigerants: R134a, R404A/R507, R407C, R600a, R290
 Detailed Basic Compressor Information
 Compressors Catalogue 220-240 V
 Compressors Catalogue 115 V
 International System of Units
 Application Type Indicator



Catalogue for DC Voltage Compressors:
 Refrigerants: R134a, R404A/R507, R600a, R290
 Part I: BD Compressors - Product Range
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1. SECOP HERMETIC RECIPROCATING COMPRESSORS

The Secop range of hermetic reciprocating compressors packs a mighty punch in a small package. Compact design, efficient motors and low energy consumption are the main features in hermetic compressors that build on over 60 years of reliability and quality. This catalogue contains information on Secop hermetic refrigeration compressors ranging from 115 V to 240 V.

The Secop hermetic refrigeration compressor programme consists of the types P / T / X / D / N / F / S / G and KAPPA / DELTA series compressors designed for household or light commercial applications. All of the compressor types are designed for refrigeration systems using the designated refrigerants listed below.



| | | |
|------------------------|--|------------------|
| Refrigerant | R134a (typelabel stripe colour: blue), chemical formula: CH ₂ FCF ₃ | typelabel colour |
| Voltages & Frequencies | 220-240 V, 50 & 60 Hz | yellow |
| | 115 V, 60 Hz | green |
| Basic types | 220- 240 V: PL, TL, TF, NL, NF, FR, SC, SC Twin, KAPPA 115 V: PL, TF, TL, TT, NF, NL, NT, FF, SC | |

| | | |
|------------------------|--|------------------|
| Refrigerant | R404A/R507 (typelabel stripe colour: lilac), chemical formula R404A: CHF ₂ CF ₃ / CH ₃ CF ₃ / CH ₂ FCF ₃ chemical formula R507: CHF ₂ CF ₃ / CH ₃ CF ₃ | typelabel colour |
| Voltages & Frequencies | 220-240 V, 50 & 60 Hz | yellow |
| | 115 V, 60 Hz | green |
| Basic types | 220- 240 V: PL, TL, TF, NL, NF, FR, SC, SC Twin 115 V: PL, TF, TL, TT, NF, NL, NT, FF, SC | |

| | | |
|---------------------|---|------------------|
| Refrigerant | R407C (typelabel stripe colour: lilac), chemical formula: CH ₂ F ₂ / CHF ₂ CF ₃ / CH ₂ FCF ₃ | typelabel colour |
| Voltage & Frequency | 220-240 V, 50 Hz | yellow |
| Basic types | SC, SC Twin | |

| | | |
|------------------------|--|------------------|
| Refrigerant | R290 (typelabel stripe colour: red), chemical formula: C ₃ H ₈ | typelabel colour |
| Voltages & Frequencies | 220-240 V, 50 & 60 Hz | yellow |
| | 115 V, 60 Hz | green |
| Basic types | TL, DL, NL, SC | |

| | | |
|------------------------|--|------------------|
| Refrigerant | R600a (typelabel stripe colour: red), chemical formula: C ₄ H ₁₀ | typelabel colour |
| Voltages & Frequencies | 220-240 V, 50 & 60 Hz | yellow |
| | 115 V, 60 Hz | green |
| Basic types | 220- 240 V: PL, TL, XV, DL, NL, KAPPA, DELTA 115 V: TL, XV, DL, NL, DELTA | |

NOTE: KAPPA, DELTA and XV compressors' type labels do not follow the rules mentioned above. Direct current compressors and variable speed compressors have a grey type label.

2. TYPE LABELS AND KEY TO COMPRESSOR TYPE DESIGNATION

2.1 P/T/D/N/F/S and G-Series labels

All compressors for 220-240 V have a yellow label with the type designation. Compressors for 115 V have a green label with the type designation.

Direct current compressors and variable speed compressors have a grey label.

The label for "R404A R507" or "R404A R407C R507" has a lilac stripe. The label for "R134a" has a blue stripe. The labels for "R290" and "R600a" both have a red stripe.

Barcode format

A Secop compressor type label contains two barcode lines. The first line is the full code number of the compressor and the second line is the compressor serial number. These barcodes contain 8 characters each and are printed in code 128.

Serial number

The compressor serial number will also be written in normal letters below the barcodes.

The serial number contains 8 digits, written in characters 0...9 and A...Z, without I and O.

Country of origin

The country of origin (in capital letters) or the manufacturer is also marked on the type label, examples:

MADE IN SLOVAKIA

- for compressors made in Slovakia (Fig.1)

Made by Secop | optional label "Made in China"

- for compressors made in China (Fig.2)

- "Made by Nidec" from 05/2018 to 12/2019

UL approval marking

Most compressors which are capable of running at 60 Hz have been approved in respect of safety by testing authority UL (Underwriters Laboratories).

UL approval markings appear on a separate approval mark label (Fig.3).

Yellow warning label

Secop compressors for the flammable refrigerants R600a and R290 are equipped with a yellow warning label as shown (Fig.4).

Do not use open fire near the refrigerants R600a and R290. The refrigeration systems must be opened with a tube cutter.

In order to carry out service and repair on R600a and R290 systems the service personnel must be properly trained to be able to handle flammable refrigerants. This includes knowledge on tools, transportation of the compressor and refrigerant, and the relevant regulations and safety precautions when carrying out service and repair.

Exception to all mentioned above: XV compressor type label.

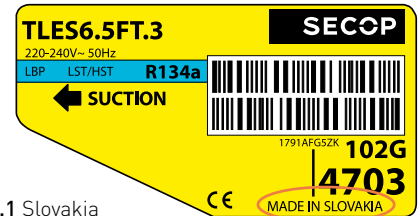
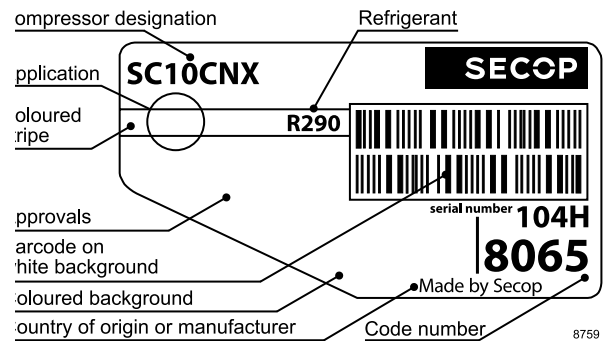


Fig.1 Slovakia

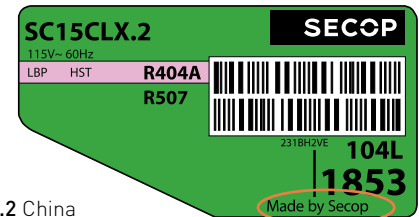


Fig.2 China

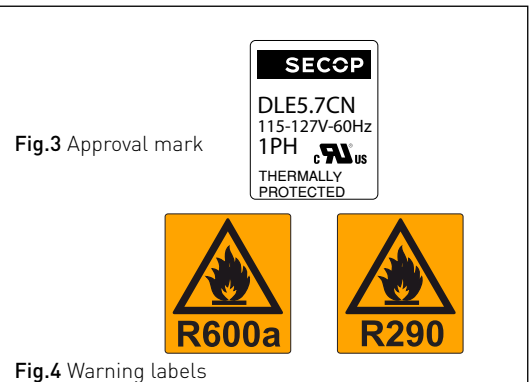


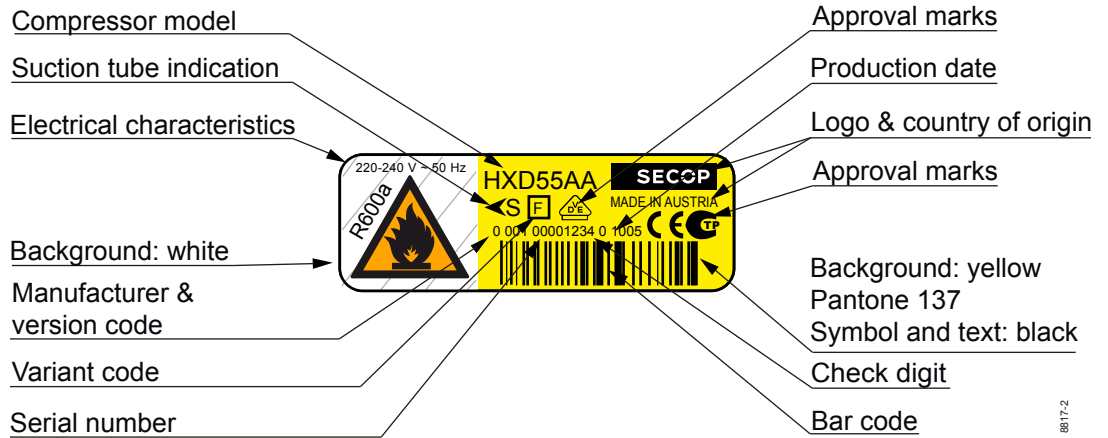
Fig.3 Approval mark

Fig.4 Warning labels

2.2
KAPPA / DELTA
type labels



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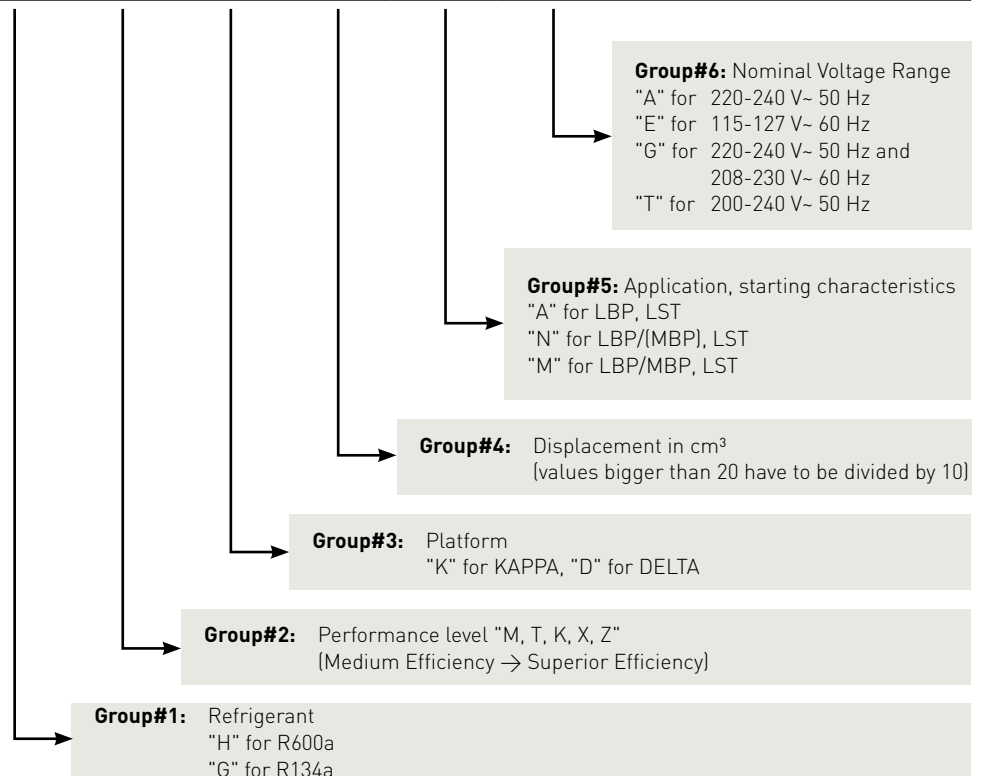


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2.3
KAPPA / DELTA
denomination

Key to Compressor Type Designation (KAPPA / DELTA)

| | | | | | | | |
|-------|---|---|---|----|---|---|---------|
| KAPPA | 1 | 2 | 3 | 4 | 5 | 6 | group |
| | H | X | K | 12 | A | T | example |
| DELTA | 1 | 2 | 3 | 4 | 5 | 6 | group |
| | H | X | D | 55 | A | A | example |



2.4
P/T/D/N/F/S and
G-Series denomination

Key to Compressor Type Designation (P/T/D/N/F/S/G-Series)

| 1 Compressor design | 1b | | | | 2 | | | | | | |
|------------------------|--------------------|--------------|----------|-------|-----------------------|-------|-----------------|------------------------------|-------------------|-----------------|-----------------|
| | Protector location | | | | Optimization level | | | | | | |
| | Internal | | External | | Low ← Standard → High | | | | | | |
| | PTC LST | Relay HST | PTC | Relay | | | | | | | |
| P | L | | | | L | Blank | E ^{a)} | Semi-direct intake | | | |
| T | | | | | | | S | | | | |
| D | | | T | F | | | E ^{b)} | Semi-direct or direct intake | Y ^{a)b)} | X ^{a)} | |
| N | | | | | | | | | | | U ^{a)} |
| F | R | | | | | | | | | | |
| S | C | | | C | | | E | Direct intake | | | |
| G | S | | | | | | | Semi-direct intake | | | |

a) = Run capacitor compulsory
 b) = Run capacitor optional

L = Low

Blank = Standard

S = Semi-direct intake
 E = Energy-optimized
 Y = High energy-optimized +
 X = High energy-optimized ++
 U = High energy-optimized +++

2.5
Variable speed
compressors
denomination

Key to Compressor Type Designation (Variable Speed)

| 1 | 2 | | | 3 |
|-------------------|-----------------------|-------|--|-------------------|
| Compressor design | Optimization level | | | Compressor size |
| | Low ← Standard → High | | | Displacement |
| XV | L | Blank | | 5.0 7.2 8.0 |
| DLV | | | | 4.0 5.7 |
| NLV | | | | 8.0 10 12.6 |
| SLV | | | | 12 15 |

1 The first letter of the denomination (P, T, D, N, F, S, G or X) indicates the compressor series.

1b The second letter for fixed speed compressors indicates motor protection placing.

2 L, E, Y, X and U mean different energy optimization steps. S means semi direct suction.

On all these mentioned types the indicated suction connector has to be used. Using the wrong connector as suction connector will lead to reduced capacity and efficiency.

3 A number indicates the displacement in cm³, but for PL compressors the number indicates the nominal capacity.

| 3 | | 4 | | 5 | 6 |
|--------------------------|------------------|-----------------------------|-------------------------------------|--|-------------------------------|
| Compressor size | | Application range | Refrigerant | Code letter for starting characteristics | Generation |
| Capacity at rating point | Displacement | | | | |
| 20 | | C = LBP | R22 | Blank → universal (principal rule) | Blank → first generation |
| 30 | | CL = LBP | R404A/R507 | | |
| 35 | | CM = LBP | R22 | | |
| 50 | | CN = LBP/MBP | R290 | | |
| | 2.5, 3, 4 | CNL = LBP | R290 | | |
| | 4.5, 4.8, 5 | D = HBP | R22 | | |
| | 5.7, 6, 6.5 | DL = HBP | R404A/R507 R407C | | |
| | 7, 7.5, 8 | DN = HBP | R290 | | |
| | 8.7, 9, 10 | F = LBP/(MBP) | R134a | | |
| | 4, 4.8 | FT = LBP tropical | R134a | | |
| | 5.7, 6.5 | G = LBP/MBP/HBP | R134a | K = LST characteristics (capillary tube) | .1 → updated first generation |
| | 7.5, 8.7 | GH = Heat pump | R134a | | |
| | 9.4, 10 | GHH = Heat pump optimized | R134a | | |
| | 5.2, 5.5, 5.7 | K = LBP/(MBP) | R600a | | |
| | 6, 6.1, 7, 7.3 | KT = LBP/(MBP) tropical | R600a | | |
| | 8.0, 8.4, 8.8, 9 | MF = MBP | R134a | X = HST characteristics (expansion valve) | .2 → second generation |
| | 10, 11, 12.6 | MK = MBP | R600a | | |
| | 13, 13.3, 15 | ML = MBP | R404A/R507 | | |
| | 6 | MN = MBP | R290 | | |
| | 7.5 | S = LBP/HBP (service) | R426A R401A/R401B R409A/R409B | | |
| | 8.5 | ST = LBP tropical (service) | R426A R401A/R401B R409A/R409B | .3 → third generation | |
| | 10 | | | | |
| | 11 | | | | |
| | 10 | | | | |
| | 12 | | | .4 → fourth generation | |
| | 15 | | | | |
| | 18 | | | | |
| | 21 | | | | |
| | 18 | | | | |
| | 21 | | | | |
| | 26 | | | | |
| | 34 | | | | |

| 4 | | 5 | 6 |
|----------------------------------|-------------|---|-------------------------------|
| Application range | Refrigerant | Code letter for starting characteristics | Generation |
| F = LBP/(MBP) | R134a | X = LST & HST characteristics (capillary tube & expansion valve) | Blank → first generation |
| K = LBP/(MBP) | R600a | | |
| EKT = LBP/(MBP) extreme tropical | R600a | Blank → universal (principal rule) | .1 → updated first generation |
| CL = LBP | R404A/R507 | | |
| ML = MBP | R404A/R507 | | |
| CN = LBP/MBP | R290 | K = LST characteristics (capillary tube) | .2 → second generation |
| CNL = LBP | R290 | | |
| CNL = LBP | R290 | X = HST characteristics (expansion valve) | |

- 4 The letter after the displacement indicates which refrigerant must be used as well as the field of application for the compressor (L/M/HBP).
- 5 The next letter in the compressor denomination provides information on the starting torque. If, as principal rule, the compressor is intended for LST (Low Starting Torque) and HST (High Starting Torque), the place is left empty. The starting characteristics depend on the electrical equipment chosen.
- 6 The final letter (separated by a dot) mentions the generation of the compressor.

3.

ELECTRICAL EQUIPMENT AND MOTOR SYSTEMS

Starting devices

LST: Low Starting Torque is used with capillary tube control and pressure equalizing. (Pressure equalizing may exceed 10 minutes)

The PTC starting device requires 5 minutes cooling before each start.

To fulfil the requirements of EN 60355-2-34 the protection screen 103N0476 must be applied to the PTC starting device.

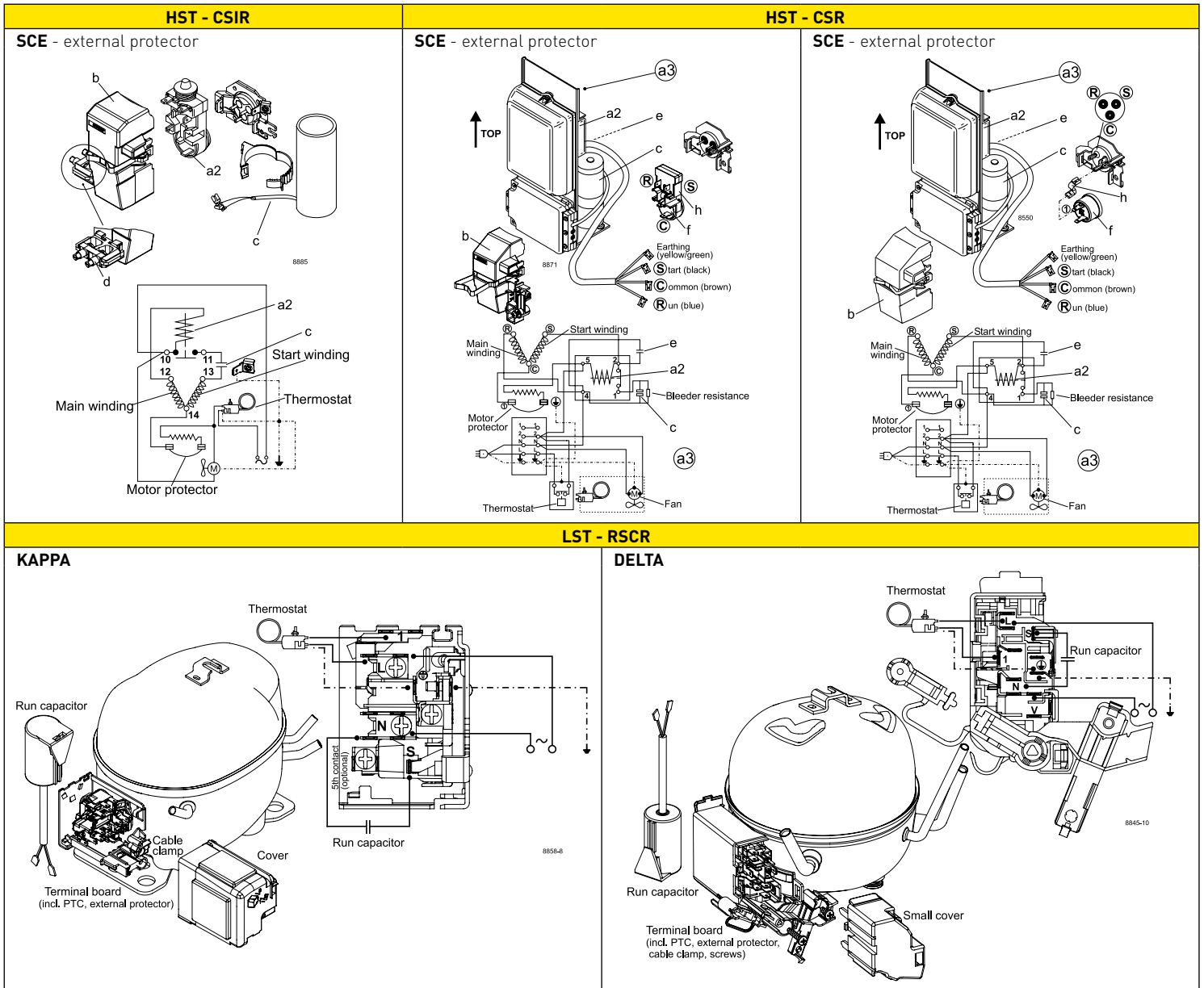
HST: High Starting Torque consisting of relay and starting capacitor is used for expansion valve control or for capillary tube control without pressure equalizing.

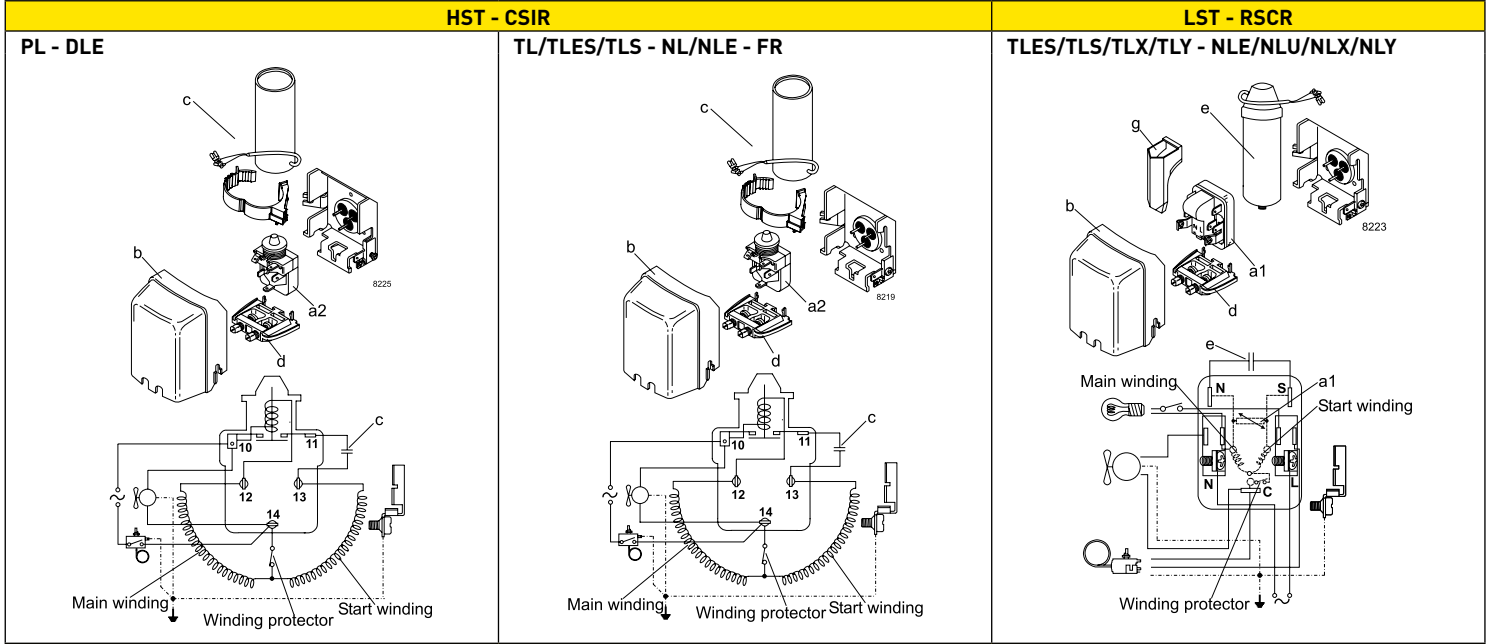
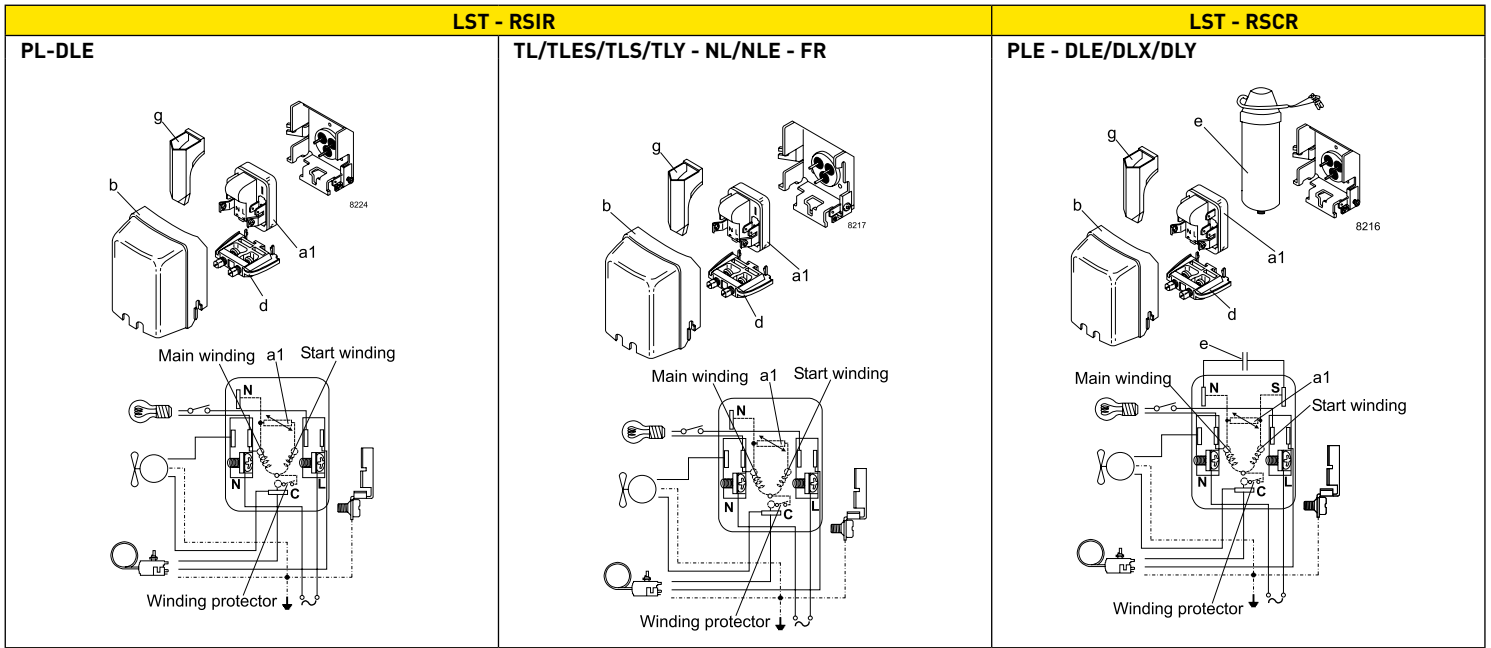
ePTC: Electronically controlled PTC

- Compressor restart possible after a few seconds
- PTC protection screen not needed [surface temp. < 82 °C]
- Operational wattage loss reduced by 2 watt
- Temperature resistant up to min. +60 °C

Electronic unit (controller)

The electronic unit provides the compressor with High Starting Torque which means that a pressure-equalization of the system before start is not necessary.





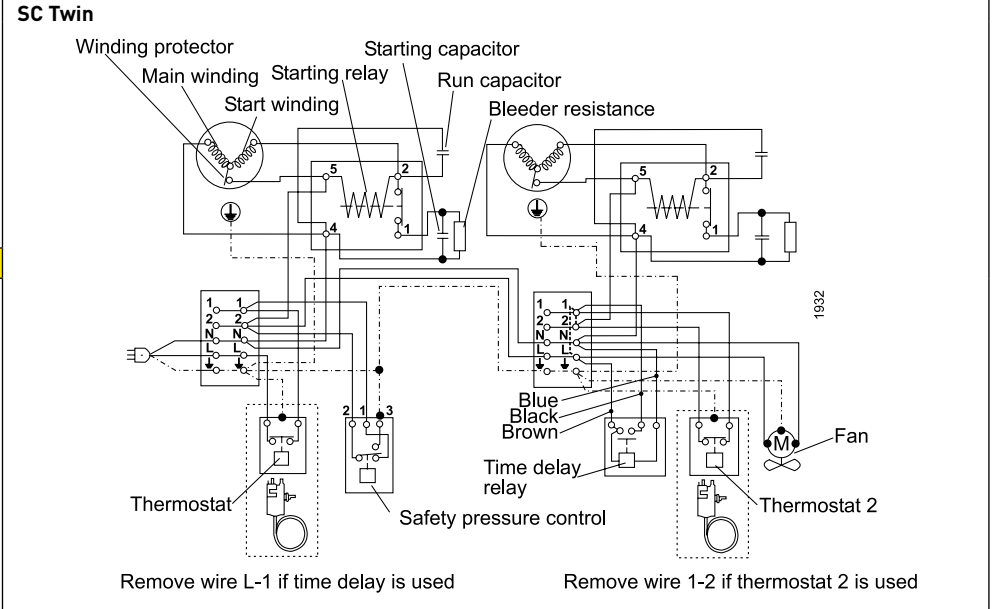
Applications & Motor Types **HST - CSIR**

LBP: Low Back Pressure
MBP: Medium Back Pressure
HBP: High Back Pressure

RSIR: Resistant Start Induction Run
RSCR: Resistant Start Capacitor Run
CSIR: Capacitor Start Induction Run
CSR: Capacitor Start Run

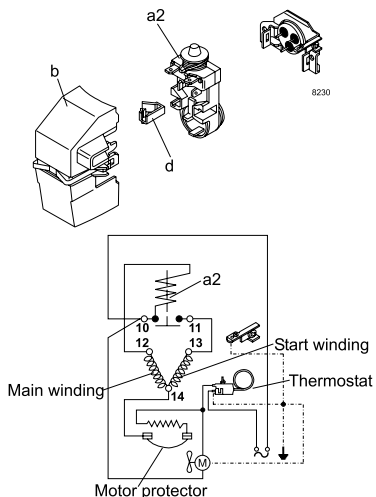
Legend

- a1: PTC starting device
- a2: Starting relay
- a3: Starting device
- b: Cover
- b1: Clamp (part of compressor)
- b2: Gasket (part of compressor)
- c: Starting capacitor
- d: Cord relief
- e: Run capacitor
- f: Protector
- g: Protection screen for PTC
- h: Holder

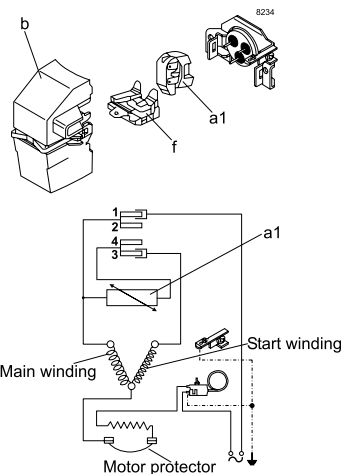


LST - RSIR

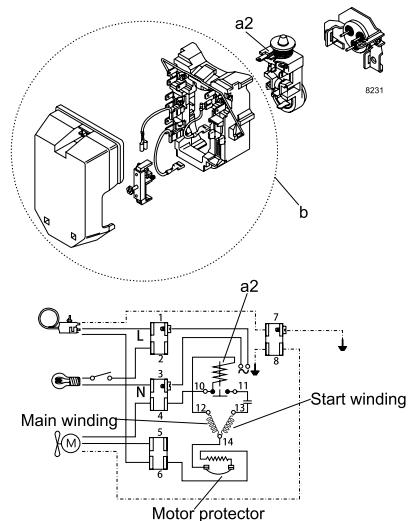
TF/TFS - NF - FF - external protector



TT - external protector

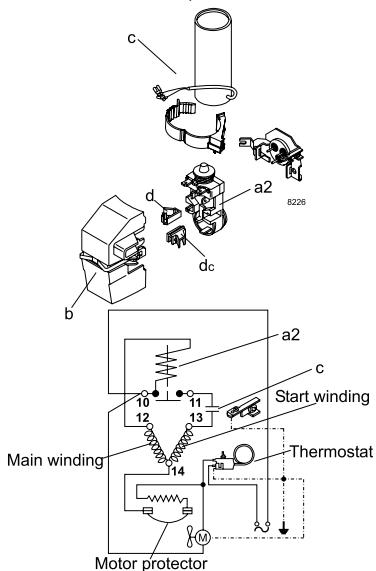


TF - NF - FF - external protector

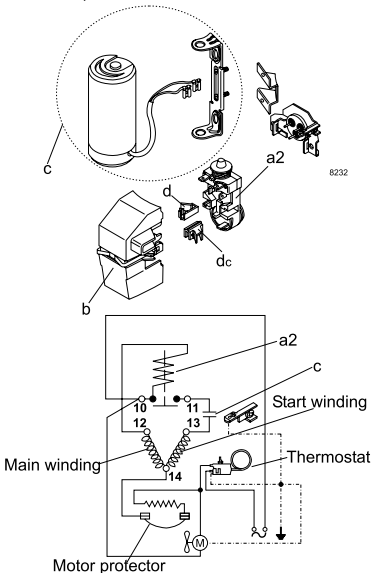


HST - CSIR

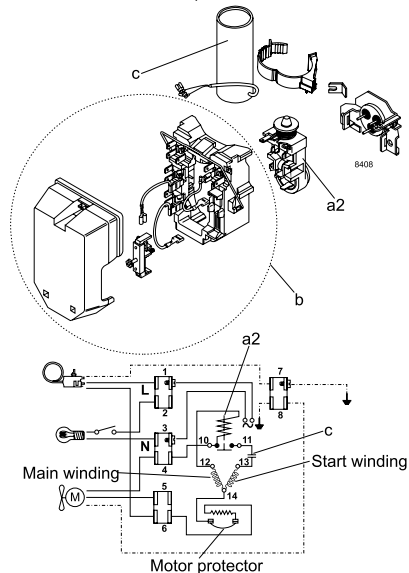
TFS - NF - FF - external protector



FF - external protector

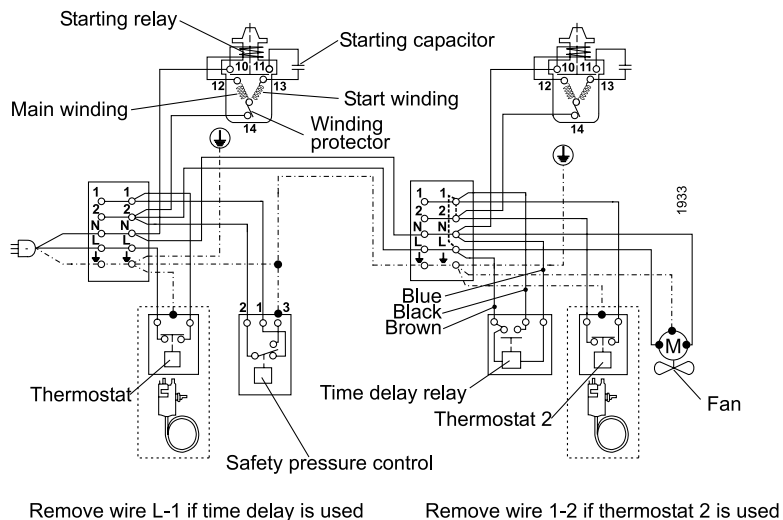


TF - NF - FF - external protector



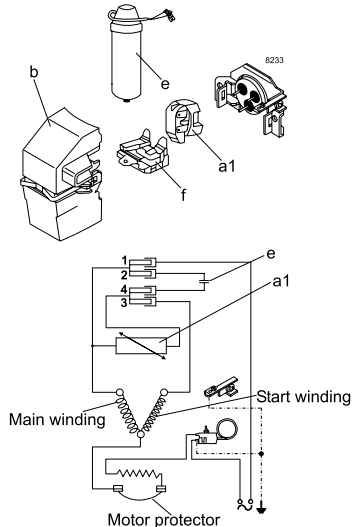
HST - CSR

SC Twin



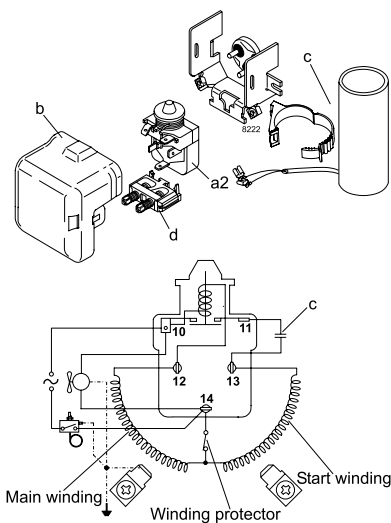
LST - RSCR

TTE/TTY - NTX/NTY - external protector

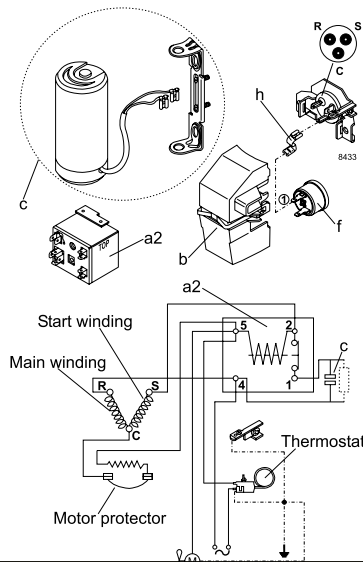


HST - CSIR

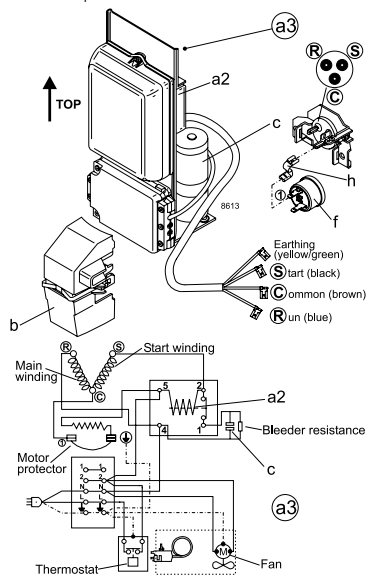
SC



SC - external protector

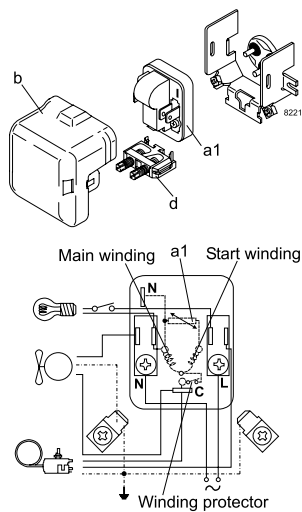


SC - external protector

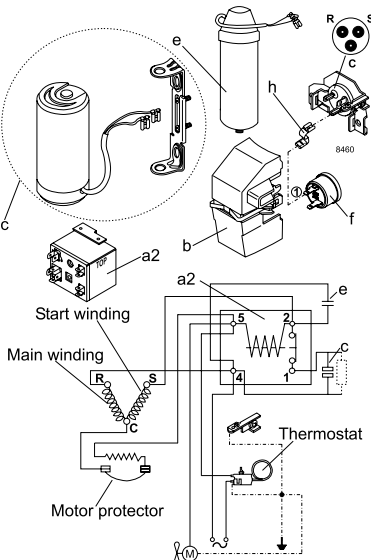


LST - RSIR

SC

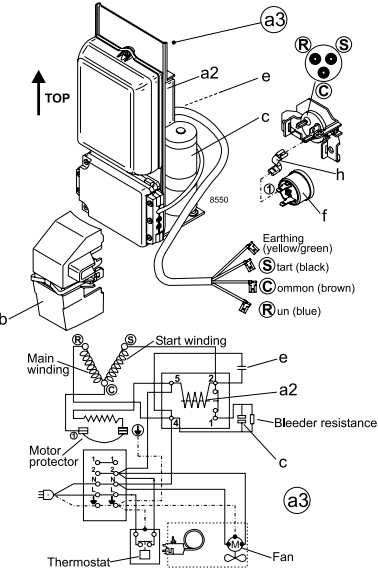


SC - external protector



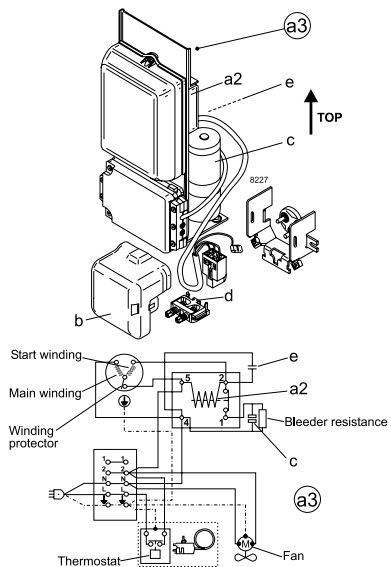
HST - CSR

SC - external protector

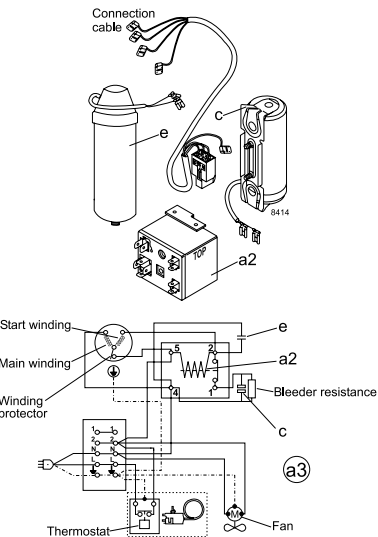


HST - CSR

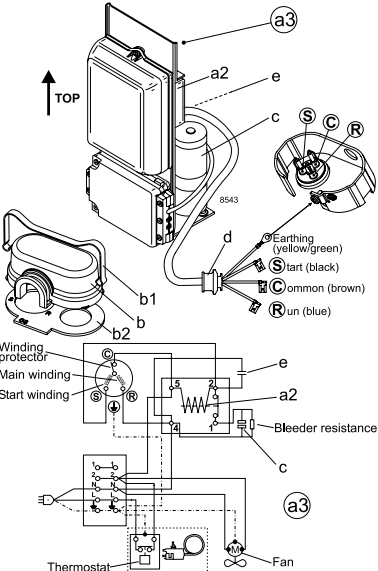
SC



SC (kit) - alternative to starting device w. bracket



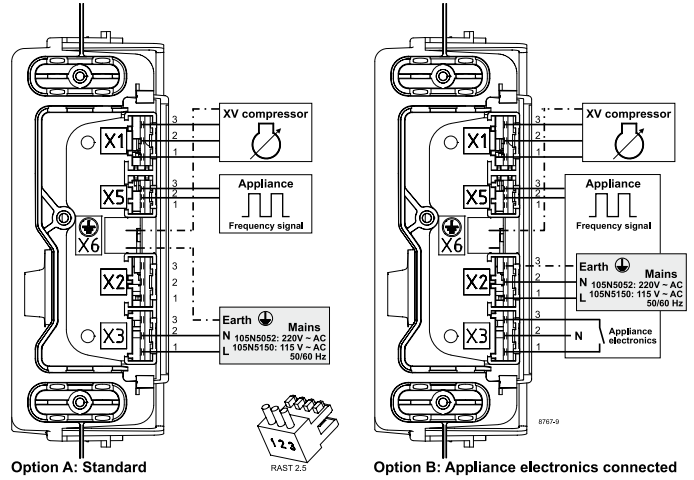
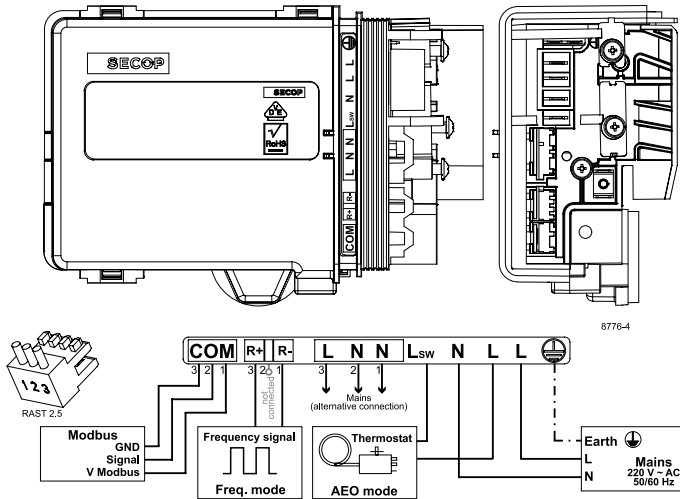
GS



LST / HST - 105N5xxx Series Controller

XV - electronic unit 105N5022 (attached, 220-240 V, 50/60 Hz)

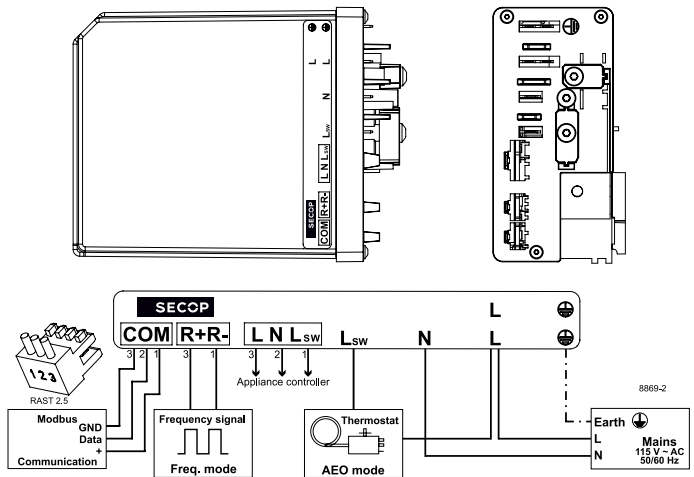
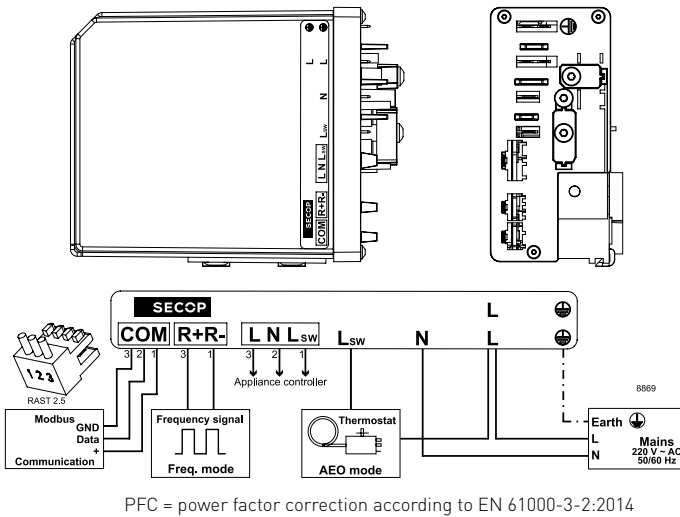
XV - electronic unit 105N5052 (detached, 220-240 V, 50/60 Hz)
 XV - electronic unit 105N5150 (detached, 100-127 V, 50/60 Hz)



LST / HST - 105N5xxx Series Controller

XV - electronic unit 105N5320 (attached, 220-240 V, 50/60 Hz, with PFC)
 XVL - electronic unit 105N5324 (attached, 220-240 V, 50/60 Hz, with PFC)

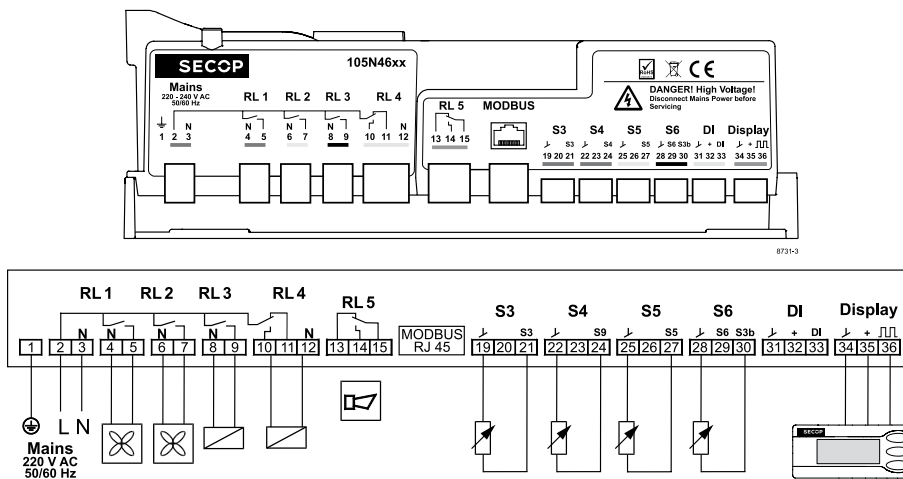
XV - electronic unit 105N5312 (attached, 100-127 V, 50/60 Hz)



PFC = power factor correction according to EN 61000-3-2:2014

LST - 105N46xx Series Controller, 220-240 V, 50/60 Hz, with PFC

SLV

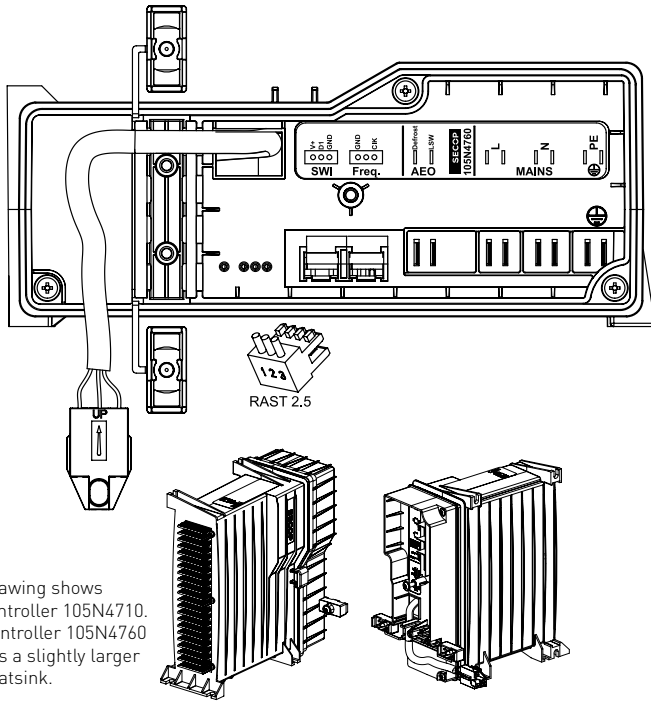


- Mains red
- RL 1 blue
- RL 2 yellow
- RL 3 black
- RL 4 grey
- RL 5 green
- S3 red
- S4 blue
- S5 yellow
- S6 black
- DI grey
- Display green

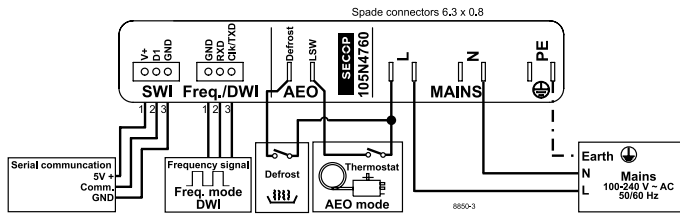
PFC = power factor correction according to EN 61000-3-2:2014

HST - 105N47xx Series Controller

NLV - electronic unit 105N4710 (220-240 V, 50/60 Hz, with PFC)
 NLV - electronic unit 105N4760 (100-240 V, 50/60 Hz, with PFC)



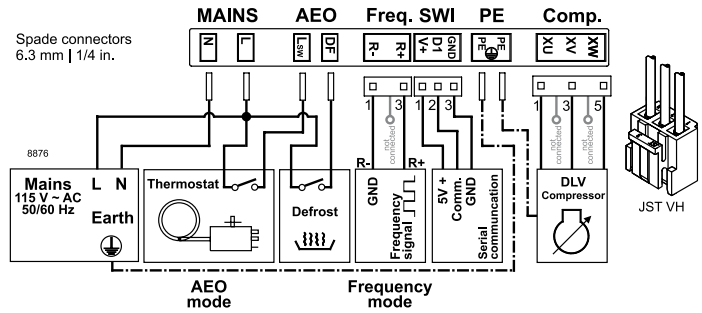
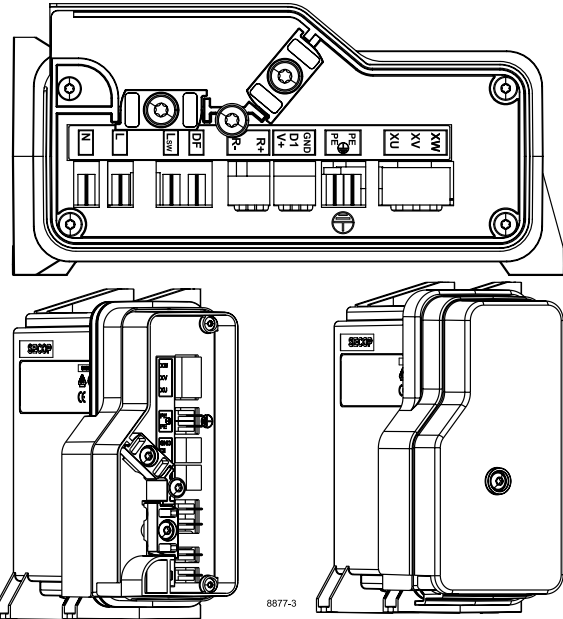
Drawing shows controller 105N4710. Controller 105N4760 has a slightly larger heatsink.



PFC = power factor correction according to EN 61000-3-2:2014

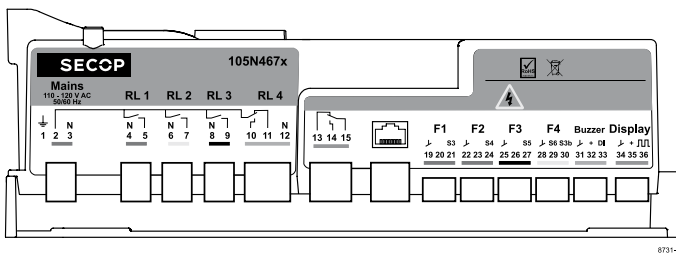
HST - 105N44xx Series Controller

DLV - electronic unit 105N4460 (100-120 V, 50/60 Hz)



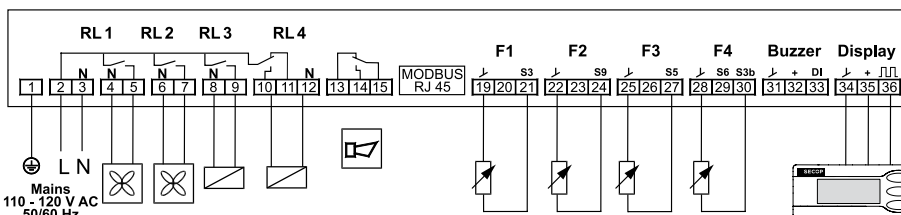
LST - 105N46xx Series Controller, 110-120 V, 50/60 Hz, with PFC

SLV



- Mains red
- RL 1 blue
- RL 2 yellow
- RL 3 black
- RL 4 grey
- green
- F1 red
- F2 blue
- F3 black
- F4 yellow
- Buzzer grey
- Display green

upper part of label:
orange



PFC = power factor correction according to EN 61000-3-2:2014

3.1 ePTC

Introduction

The starting device of our standard PTC starters is a "Positive Temperature Coefficient" resistor, PTC. When heated up during the start phase, the PTC almost cuts off the current to the auxiliary winding, leaving only enough current to keep itself heated to this closing level. The associated heat loss amounts to approximately 2.5 W. With the ePTC this loss can be reduced down to approximately 0.4 W by an extra electronic circuit.

Features

The electronic design of the starting device offers some strong features such as:

- Compressor restart possible after a few seconds. Only a very short cooling time is necessary due to the electronic design.
- Operational wattage loss reduced by 2 watt
- PTC protection screen not needed (surface temp. < 179.6 °F (82 °C))
- Temperature resistant up to min. 140 °F (+60 °C)

Functional description

The main component of the ePTC is the same PTC pill like in other 220-240V 103N.... Secop PTC starters. Thus the start of the compressor motor is performed in the same way. In standard PTC starters the >2 W energy loss to keep the PTC heated during compressor operation are not avoidable. In the ePTC a small electronic circuit cuts off the current through the PTC a short time after start and thus reduces the energy loss down to an approx 0.4W. The switch used is a Triac, an electronic AC switch, controlled by a timer circuit. As the timer circuit has a short reset time and the main PTC cools down during compressor operation, the full start torque will be available after approx 6 seconds compressor off time. However, if it is a LST starting device, full pressure equalization is needed before start.

Technical data

| Electronically controlled PTC (version E-2) can alternatively be used for P / T / D / N / F / S - Series | | |
|--|---|---------------------------|
| Code number | 103N0050 (25 Ohm) 103N0055 (38 Ohm) | 103N0058 (5 Ohm) |
| Nominal supply voltage | 220 - 240 V, 50/60 Hz | 115 V, 60 Hz |
| Minimal supply voltage | 187 V | 90 V |
| Maximal supply voltage | 254 V | 140 V |
| Power consumption | approx. 0.4 W (after 2 s) | approx. 0.5 W (after 2 s) |
| Spade connectors | 3/16 inch (4.8 mm) | 1/4 inch (6.3 mm) |
| Cables | temperature resistant up to min. 140 °F (60 °C) | |
| Run capacitor | optional | |
| Ambient temperatures | from 32°F (0 °C) to 122 °F (50 °C) during operation from -4 °F (-20 °C) to 158 °F (70 °C) during transport | |
| Enclosure | IP 00 | |
| PTC protection screen | not needed, surface temp. < 179.6 °F (82 °C) | |

Connection & Terminals

The wiring diagram shows how to make the connections. The two screw terminals marked N and L are for supply voltage. The spade on the L terminal and the spade marked C are for the thermostat. The spade marked S at the top right position is internally connected to the start (or auxiliary) fusite terminal. This spade together with N is used for a run capacitor. The spade marked N at the top left position is internally connected to the neutral screw terminal. The spade marked C at the bottom position is internally connected to the common fusite terminal. On the rear side of the ePTC starter there are three holes. The hole in the bottom is for the common fusite terminal on the compressor. The top left hole is for the start fusite terminal and the top right hole is for the main fusite terminal. The ePTC starter is mounted with the C spade downwards.

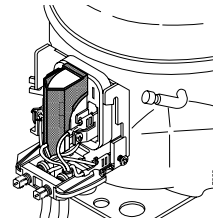
EMC optimised ePTC versions ("E-2")

Starting second quarter 2012 Secop has shipped EMC optimised ePTC versions ("E-2"). An added "gate cap" filter on the PCB ensures improved Electromagnetic Compatibility (EMC). All other components remain unchanged.

3.2 PTC protection screen

To fulfil the requirements of **EN 60335-2-34** the protection screen 103N0476 (for P / T / D / N / F and S-Series) must be applied to the PTC starting device.

The screen is not needed when using an ePTC.

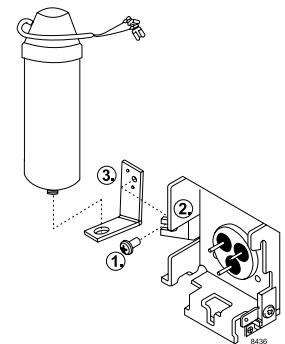


3.3 Run capacitor holder

A run capacitor holder is available for the "Energy optimized" and "High Energy optimized" compressor range (P / T / D / N-Series). This optional part is fixed to the run capacitor for 220 V directly and earth connected on the compressor shell, concentrating all electrical accessories on the compressor. This will save space in the machine compartment. See drawing four mounting seequence.

Code numbers:

run capacitor holder 117-0300
screw M4 x 8 PZD 2 117-0301



3.4
Survey of starting
capacitors for
P / T / D / N / F and
S-Series compressors

| Code No. | Capacity [µF] | Voltage [V] | Stamping IEC | Bleeder Resistor | Mount | Series | Approvals | Supplier L / D [mm] | Drawing |
|----------|---------------|-------------|-------------------------------------|------------------|-------|--------------------|-----------|-----------------------------|---------|
| 117U5012 | 125 | 220 | 220V AB 1.7% ED 300V AB 0.1% ED | no | A | SC | VDE / CQC | KEMET / NGM 121/39 95/39 | |
| 117U5014 | 60 | 220 | 220V AB 1.7% ED 300V AB 0.1% ED | no | A | PL, TL | VDE / CQC | KEMET / NGM 95/39 | |
| 117U5015 | 80 | 220 | 220V AB 1.7% ED 300V AB 0.1% ED | no | A | FR, NL | VDE | KEMET / NGM 95/39 | |
| 117U5017 | 80 | 220 | 220V AB 1.7% ED 300V AB 0.1% ED | no | A | SC | VDE / CQC | KEMET / NGM 95/39 | |
| 117U5018 | 125 | 220 | 220V AB 1.7% ED 300V AB 0.1% ED | no | A | NF, NL | VDE / CQC | KEMET / NGM 121/39 95/39 | |
| 117U5022 | 320 | 115 | 125V AB 1.7% ED 165V AB 0.1% ED | no | A | NF, TFS | CQC | KEMET / NGM 80/39 | |
| 117U5023 | 240 | 115 | 125V AB 1.7% ED 165V AB 0.1% ED | no | A | TL, TLS, SC | CQC | KEMET / NGM 80/39 | |
| 117U5025 | 280 | 115 | 125V AB 1.7% ED 165V AB 0.1% ED | no | A | FR, NF, TF, TFS | CQC | KEMET / NGM 80/39 | |
| 117U5028 | 410 | 115 | 125V AB 1.7% ED 165V AB 0.1% ED | no | A | NF | CQC | KEMET / NGM 95/39 | |
| 117U5035 | 125 | 115 | 125V AB 1.7% ED 165V AB 0.1% ED | yes | A | NL, TL | CQC | KEMET / NGM 95/39 | |
| 117U5040 | 320 | 115 | 125V AB 1.7% ED 165V AB 0.1% ED | no | B | FF | CQC | KEMET / NGM 95/39 | |
| 117U5041 | 280 | 115 | 125V AB 1.7% ED 165V AB 0.1% ED | no | B | FF | CQC | KEMET / NGM 95/39 | |
| 117U5042 | 410 | 115 | 125V AB 1.7% ED 165V AB 0.1% ED | no | B | SC | CQC | KEMET / NGM 95/39 | |
| 117U5043 | 410 | 115 | 125V AB 1.7% ED 165V AB 0.1% ED | yes | B | SC | CQC | KEMET / NGM 95/39 | |
| 117U5372 | 40 | 220 | 260V AB 1.7% ED 330V AB 0.55% ED | yes | A | SC | VDE / CQC | KEMET 95/39 | |
| 117U5373 | 80 | 220 | 260V AB 1.7% ED 330V AB 0.55% ED | yes | A | SC | VDE / CQC | KEMET 95/39 | |
| 117U5379 | 410 | 115 | 125V AB 1.7% ED 165V AB 0.1% ED | yes | A | SC | CQC | KEMET 95/39 | |
| 117U5350 | 280 | 115 | 125V AB 1.7% ED 165V AB 0.1% ED | yes | A | SC | CQC | KEMET 80/39 | |
| 117U5382 | 125 | 220 | 260V AB 1.7% ED 330V AB 0.55% ED | yes | A | SC | VDE / CQC | KEMET 121/39 | |
| 117U5038 | 125 | 220 | 220V AB 1.7% ED 300V AB 0.1% ED | no | B | NL | VDE / CQC | KEMET 121/39 | |
| 117U5039 | 180 | 115 | 125V AB 1.7% ED 165V AB 0.1% ED | no | B | NL | CQC | KEMET 80/39 | |
| 117U5381 | 100 | 220 | 260V AB 1.7% ED 330V AB 0.55% ED | yes | A | NL | VDE / CQC | KEMET 121/39 | |
| 117U5389 | 60 | 220 | 260V AB 1.7% ED 330V AB 0.55% ED | yes | A | NL | VDE / CQC | KEMET 95/39 | |

3.5
Survey of run capacitors for T / D / N / S and G-Series compressors

| Code No. | Capacity [µF] | Voltage [V] | Frequency [Hz] | Connectors [mm] type | Type | Approvals | Drawing |
|----------|---------------|-------------|----------------|------------------------|-------|-----------|---|
| 117-7111 | 5.0 | 430 | 50/60 | 6.3 F | SC | VDE | <p>S = spade connectors: straight F = spade connectors: flag</p> <p>D = ø 45 mm max. L = 110 mm max. A = 10 mm B = M8</p> |
| 117-7112 | 10.0 | 430 | 50/60 | 6.3 F | SC | VDE | |
| 117-7114 | 23.5 | 190 | 60 | 6.3 S | SC | UL | |
| 117-7117 | 4.0 | 320 | 50/60 | 6.3 S | NL/TL | VDE | |
| 117-7118 | 15.0 | 190 | 60 | 6.3 S | NL/TL | UL | |
| 117-7119 | 4.0 | 320 | 50/60 | 4.8 S | NL/TL | VDE | |
| 117-7120 | 15.0 | 190 | 60 | 4.8 S | NL | UL | |
| 117-7121 | 10.0 | 430 | 60 | 6.3 F | SC | UL | |
| 117-7123 | 4.0 | 320 | 50/60 | 4.8 S | NL/TL | VDE | |
| 117-7126 | 12.0 | 190 | 60 | 6.3 S | NL | UL | |
| 117-7127 | 15.0 | 430 | 60 | 6.3 F | SC | UL | |
| 117-7129 | 5.0 | 320 | 50/60 | 4.8 S | NL | VDE | |
| 117-7130 | 5.0 | 320 | 50/60 | 6.3 S | NL | VDE | |
| 117-7131 | 3.0 | 320 | 50/60 | 6.3 S | NL/TL | VDE | |
| 117-7132 | 3.0 | 320 | 50/60 | 4.8 S | NL/TL | VDE | |
| 117-7133 | 23.5 | 190 | 60 | 6.3 F | SC | UL | |
| 117-7134 | 15.0 | 450 | 50/60 | 6.3 F | GS | VDE | |
| 117-7135 | 20.0 | 330 | 50/60 | 6.3 F | GS | VDE | |
| 117-7136 | 2.0 | 320 | 50/60 | 4.8 S | NL/TL | VDE | |
| 117-7137 | 15.0 | 430 | 60 | 6.3 F | SC | UL | |
| 117-7138 | 20.0 | 330 | 60 | 6.3 F | GS | UL | |
| 117-7139 | 2.5 | 320 | 50/60 | 4.8 S | NL/TL | VDE | |
| 117-7140 | 3.5 | 320 | 50/60 | 4.8 S | NL/TL | VDE | |
| 117-7145 | 5.0 | 320 | 50/60 | 4.8 S | NL | VDE | |
| 117-7146 | 20 | 190 | 60 | 4.8 S | NL | UL | |
| 117-7147 | 20 | 190 | 60 | 6.3 S | NL | UL | |
| 117-7148 | 15 | 190 | 60 | 6.3 F | NL/TL | UL | |
| 117-7149 | 20 | 190 | 60 | 6.3 S | NL | UL | |
| 117-7165 | 4.0 | 430 | 50/60 | 4.8 S | NL | VDE | |
| 117-7112 | 10 | 430 | 50/60 | 6.3 F | SC | VDE | |
| 117-7121 | 10 | 430 | 60 | 6.3 F | SC | UL | |

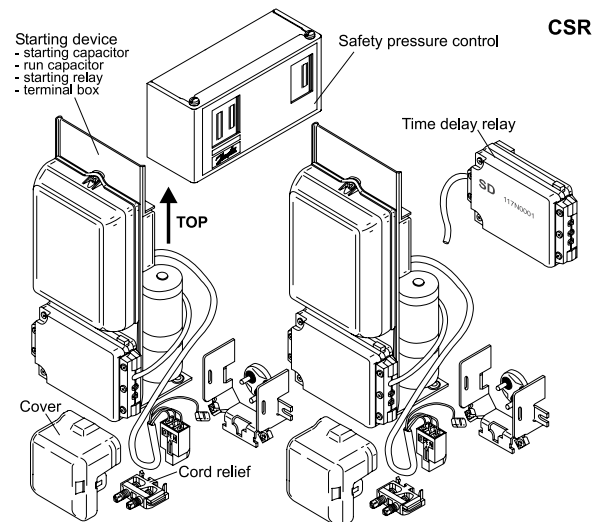
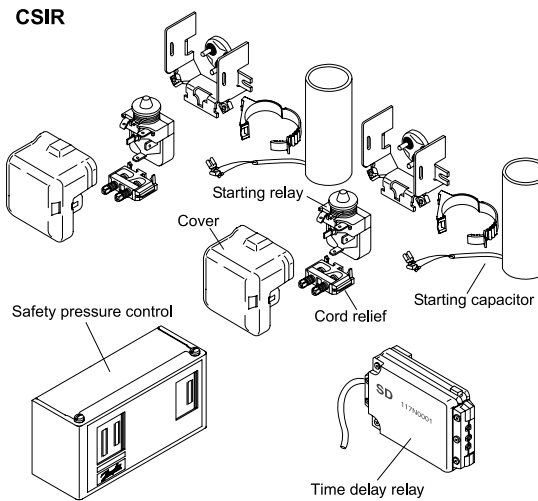
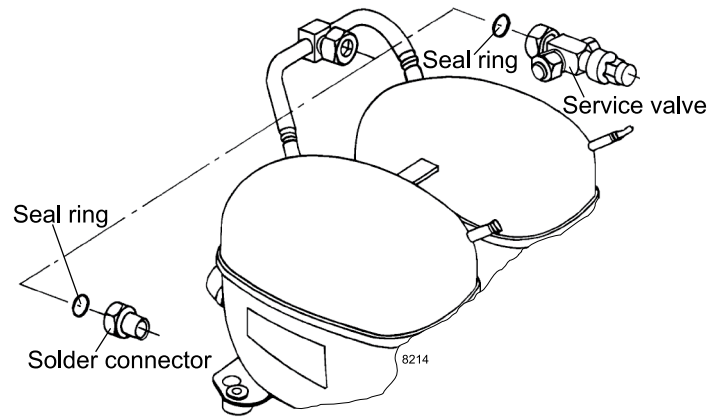
4. TWIN COMPRESSORS

The twin version consists of two SC compressors mounted on a common base plate. The two compressors are joined by an oil-equalizing tube and also have an intake manifold with screw connector for a service valve or a solder connector (these parts are supplied as accessories, please refer to data sheets for more info).

Each twin compressor is supplied with two sets of electrical equipment and mounting accessories.

To ensure optimum starting characteristics and the smallest possible mains load we recommend that the compressors be equipped with a time delay relay for start of the second compressor. Twin compressors can operate with capacity regulation depending on the controls used.

Depending on the motor type (CSR/CSIR) all accessories needed are illustrated in the drawing below.



| Accessories for SC Twin | |
|--|----------|
| SC10/10, SC12/12 and SC15/15: | |
| Service valve for 12 mm tube | 118-7350 |
| Solder connector for 12 mm tube | 104B0584 |
| SC18/18 and SC21/21: | |
| Service valve for 16mm tube | 118-7351 |
| Solder connector for 16mm tube | 118-7405 |
| SC10/10, SC12/12, SC15/15, SC18/18 and SC21/21: | |
| Seal ring for service valve and solder connector | 118-3638 |
| Time delay relay | 117N0001 |
| Check valve (to be used with time - delay relay) | 020-1014 |

5.

MOUNTING ACCESSORIES

| Mounting | Code number | Bolt / pin dimension | Compressor base hole | Type of packaging | Compressor series | Parts list |
|------------|-------------|----------------------|----------------------|---------------------------------|---|------------|
| Bolt joint | 118-1917 | M6 metric | 16 mm | Single pack for one compressor | BD- / P- / T- / X- / D- / N- / F- / S-Series | I |
| Bolt joint | 118-1918 | M6 metric | 16 mm | Industrial pack in any quantity | BD- / P- / T- / X- / D- / N- / F- / S-Series | I |
| Bolt joint | 107B9150 | M8 metric | 19 mm | Single pack for one compressor | G-Series | II |
| Bolt joint | 118-1946 | 1/4 inch | 16 mm | Single pack for one compressor | BD- / P- / T- / X- / D- / N- / F- / S-Series | III |
| Bolt joint | 118-1949 | 1/4 inch | 19 mm | Single pack for one compressor | all with 19 mm base holes (except G-Series) | IV |
| Snap-on | 118-1947 | Ø 7.3 mm | 16 mm | Single pack for one compressor | BD- / P- / T- / X- / D- / N- / F- / S-Series KAPPA / DELTA | V |
| Snap-on | 118-1919 | Ø 7.3 mm | 16 mm | Industrial pack in any quantity | BD- / P- / T- / X- / D- / N- / F- / S-Series KAPPA / DELTA | V |

| Parts list (4 pcs. per compressor needed) | | | Symbol drawings |
|---|------------------------------------|----------|-----------------|
| I | Sleeve Ø 8 mm x 6.4 mm x 0.8 mm | 112-2052 | |
| | Washer Ø 20 mm x Ø 6.7 mm x 1 mm | 112-2053 | |
| | Bolt M6 x 25 mm | 681X1130 | |
| | Nut M6 | 118-3659 | |
| | Rubber grommet 16 mm | 118-3661 | |
| II | Sleeve Ø 11 mm x 8.6 mm x 1.2 mm | 107B9152 | |
| | Washer Ø 20 mm x Ø 8.8 mm x 1.2 mm | 107B9155 | |
| | Bolt M8 x 40 mm | 107B9153 | |
| | Nut M8 | 107B9154 | |
| | Rubber grommet 19 mm | 107B9151 | |
| III | Sleeve Ø 8.3 mm x 6.7 mm x 0.8 mm | 112-2088 | |
| | Washer Ø 20 mm x Ø 6.7 mm x 1 mm | 112-2053 | |
| | Bolt 1/4 x 1 inch, 20 UNC | 119-3002 | |
| | Nut 1/4 inch, 20 UNC | 119-3031 | |
| | Rubber grommet 16 mm | 118-3661 | |
| IV | Sleeve Ø 9.5 mm x 7.9 mm x 0.8 mm | 112-2085 | |
| | Washer Ø 20 mm x Ø 6.7 mm x 1 mm | 112-2053 | |
| | Bolt 1/4 x 1 1/4 inch, 20 UNC | 119-3002 | |
| | Nut 1/4 inch, 20 UNC | 119-3031 | |
| | Rubber grommet 19 mm | 118-3666 | |
| V | Steel pin | 118-3586 | |
| | Washer Ø 21 x Ø 8.1 mm x 0.9 mm | 118-3588 | |
| | Clip | 118-3585 | |
| | Rubber Grommet 16 mm | 118-3661 | |

6.

SHIPMENT POSITIONS OF REFRIGERATION APPLIANCES

When refrigeration appliances are shipped in the normal vertical position, this will normally not cause any damage to the compressor.

If transported in horizontal position, the compressor must be oriented as shown in the table on the next page to prevent the accumulation of oil in the muffler and subsequent risk of damage. It is important to note that the compressor must be securely fastened and well supported during transportation.

Refrigeration appliances can be safely transported in horizontal position:

- with trucks on roads and motorways in good condition
- by ship in containers
- on railways in good condition

| Compressors | Shipment positions of refrigeration appliances - Position X must not be used | | | | |
|-------------|--|-----------------------|-----------------|-------------------------|---------------|
| | Connectors up | Electrical lead-in up | Connectors down | Electrical lead-in down | Base plate up |
| X - Series | | | | | |
| D - Series | | | | | |
| DELTA | | | | | |
| KAPPA | | | | | |

| Compressors | Shipment positions of refrigeration appliances - Position X must not be used | | | | |
|-------------|--|-----------------------|-----------------|-------------------------|---------------|
| | Connectors up | Electrical lead-in up | Connectors down | Electrical lead-in down | Base plate up |
| P - Series | | | | | |
| T - Series | | | | | |
| N - Series | | | | | |
| F - Series | | | | | |
| S - Series | | | | | |
| G - Series | | | | | |

WITH MORE THAN 60 YEARS OF EXPERIENCE IN COMPRESSOR TECHNOLOGY AND HIGHLY DEDICATED EMPLOYEES, OUR FOCUS IS ON DEVELOPING AND

APPLYING ADVANCED COMPRESSOR TECHNOLOGIES TO ACHIEVE STANDARD SETTING PERFORMANCE FOR LEADING PRODUCTS AND BUSINESSES AROUND THE WORLD.

R600a | R290

Variable Speed Drive Compressors

220-240 V | 50/60 Hz

100-127 V | 50/60 Hz



| | |
|-----------------------------|-------|
| X-Series | 22-23 |
| DLV / NLV / SLV-Series..... | 24-25 |

Chemical formula R600a

C_4H_{10}

Chemical formula R290

C_3H_8

Typelabel

Typelabel stripe colour: Red (except X-Series Compressors)
Typelabel colour: Grey

Applications

LBP: Low Back Pressure
MBP: Medium Back Pressure

Motor types

The compressors are equipped with permanent magnet rotors (PM motor) and 3 identical stator windings. The electronic unit controls the PM motor.

Compressor cooling

- S = Static cooling normally sufficient
- O = Oil cooling
- F₁ = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
- F₂ = Fan cooling 3.0 m/s necessary

Electronic unit (controller)

The electronic unit provides the compressor with High Starting Torque (HST) which means that a pressure-equalization of the system before start is not necessary. For further information on which starting device to use on individual compressors, please refer to the actual datasheets (some compressors have limitations for either LST or HST). and to our "Operating Instructions".

The electronic unit has a built-in overload protection as well as thermal protection. In case of activation of this protection the electronic unit will protect the compressor motor as well as itself. When the protection has been activated, the electronic unit automatically will restart the compressor after a certain time.

Test conditons

- 1 Watt = 0.86 kcal/h
- 1 Watt = 3.41 Btu/h





↑ EM02
Linka SK3



R600a • 220-240 V • 100-127 V • 50/60 Hz • X-Series

| Compressor | Code number | Application | ASHRAE Capacity [BTU/h] T _c =130°F, T _{liq} =90°F, T _{suc} =90°F Evaporating temperature [°F] | | | | | | ASHRAE | | | | | | ARI Capacity [BTU/h] T _c =120°F, T _{liq} =120°F, T _{suc} =40°F Evaporating temperature [°F] | | | | | |
|-------------------|-------------|-------------|--|-----|-----|-----|----|-----|-----------------------------------|----------|----------------------------------|----------|----------------------------------|----------|--|-----|-----|----|----|----|
| | | | | | | | | | LBP rating point -10°F / 130°F | | MBP rating point 20°F / 130°F | | HBP rating point 45°F / 130°F | | | | | | | |
| | | | | | | | | | Cooling capacity | EER | Cooling capacity | EER | Cooling capacity | EER | | | | | | |
| | | | -31 | 5 | 23 | 32 | 50 | 59 | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | -31 | 5 | 23 | 32 | 50 | 59 |
| XV5.0KX 1000 rpm | 108H5012 | LBP | 33 | 122 | 184 | 213 | | 75 | 5.68 | 157 | 8.14 | | | 26 | 112 | 172 | 201 | | | |
| XV5.0KX 4000 rpm | 108H5012 | LBP | 139 | 529 | 820 | 960 | | 316 | 5.65 | 695 | 7.64 | | | 117 | 440 | 677 | 792 | | | |
| XV5.0KX 1000 rpm | 108H5013 | L/MBP | 33 | 122 | 184 | 213 | | 75 | 5.68 | 157 | 8.14 | | | 26 | 112 | 172 | 201 | | | |
| XV5.0KX 4000 rpm | 108H5013 | L/MBP | 139 | 529 | 820 | 960 | | 316 | 5.65 | 695 | 7.64 | | | 117 | 440 | 677 | 792 | | | |
| XV5.0KX 1000 rpm | 108H5014 | L/MBP | 33 | 122 | 184 | 213 | | 75 | 5.94 | 157 | 8.38 | | | 26 | 112 | 172 | 201 | | | |
| XV5.0KX 4000 rpm | 108H5014 | L/MBP | 139 | 529 | 820 | 960 | | 316 | 6.02 | 695 | 7.74 | | | 117 | 440 | 677 | 792 | | | |
| XV5.0KX 1000 rpm | 108H5015 | LBP | 33 | 122 | 184 | 213 | | 75 | 5.68 | 157 | 8.14 | | | 26 | 112 | 172 | 201 | | | |
| XV5.0KX 4000 rpm | 108H5015 | LBP | 139 | 529 | 820 | 960 | | 316 | 5.65 | 695 | 7.64 | | | 117 | 440 | 677 | 792 | | | |
| XV7.2KX 1000 rpm | 108H7210 | LBP | 73 | 220 | 363 | 448 | | 133 | 6.14 | 303 | 8.62 | | | 63 | 185 | 295 | 359 | | | |
| XV7.2KX 4000 rpm | 108H7210 | LBP | 260 | 805 | | | | 494 | 5.76 | | | | | 224 | 668 | | | | | |
| XV7.2KX 1000 rpm | 108H7211 | LBP | 73 | 220 | 363 | 448 | | 133 | 6.14 | 303 | 8.62 | | | 63 | 185 | 295 | 359 | | | |
| XV7.2KX 4000 rpm | 108H7211 | LBP | 260 | 805 | | | | 494 | 5.76 | | | | | 224 | 668 | | | | | |
| XV7.2KX 1000 rpm | 108H7212 | LBP | 73 | 220 | 363 | 448 | | 133 | 6.16 | 303 | 8.70 | | | 63 | 185 | 295 | 359 | | | |
| XV7.2KX 4000 rpm | 108H7212 | LBP | 260 | 805 | | | | 494 | 5.64 | | | | | 224 | 668 | | | | | |
| XVL7.2KX 1000 rpm | 108H7230 | LBP | 65 | 226 | 350 | 427 | | 147 | 5.56 | 295 | 6.84 | | | 60 | 184 | 284 | 346 | | | |
| XVL7.2KX 4000 rpm | 108H7230 | LBP | 230 | 801 | | | | 520 | 5.86 | | | | | 213 | 653 | | | | | |
| XV8.0KX 1000 rpm | 108H7710 | LBP | 70 | 239 | 362 | 421 | | 149 | 6.19 | 308 | 8.67 | | | 64 | 194 | 291 | 339 | | | |
| XV8.0KX 4000 rpm | 108H7710 | LBP | 272 | 892 | | | | 563 | 5.86 | | | | | 237 | 727 | | | | | |
| XV8.0KX 1000 rpm | 108H7712 | LBP | 70 | 239 | 362 | 421 | | 149 | 6.19 | 308 | 8.67 | | | 64 | 194 | 291 | 339 | | | |
| XV8.0KX 4000 rpm | 108H7712 | LBP | 272 | 892 | | | | 563 | 5.86 | | | | | 237 | 727 | | | | | |
| XV8.0KX 1000 rpm | 108H7714 | LBP | 70 | 239 | 362 | 421 | | 149 | 6.23 | 308 | 8.76 | | | 64 | 194 | 291 | 339 | | | |
| XV8.0KX 4000 rpm | 108H7714 | LBP | 272 | 892 | | | | 563 | 5.71 | | | | | 237 | 727 | | | | | |
| XVL8.0KX 1000 rpm | 108H7730 | LBP | 70 | 243 | 377 | 459 | | 158 | 5.60 | 317 | 6.89 | | | 65 | 198 | 306 | 372 | | | |
| XVL8.0KX 4000 rpm | 108H7730 | LBP | 241 | 841 | | | | 547 | 5.79 | | | | | 224 | 685 | | | | | |

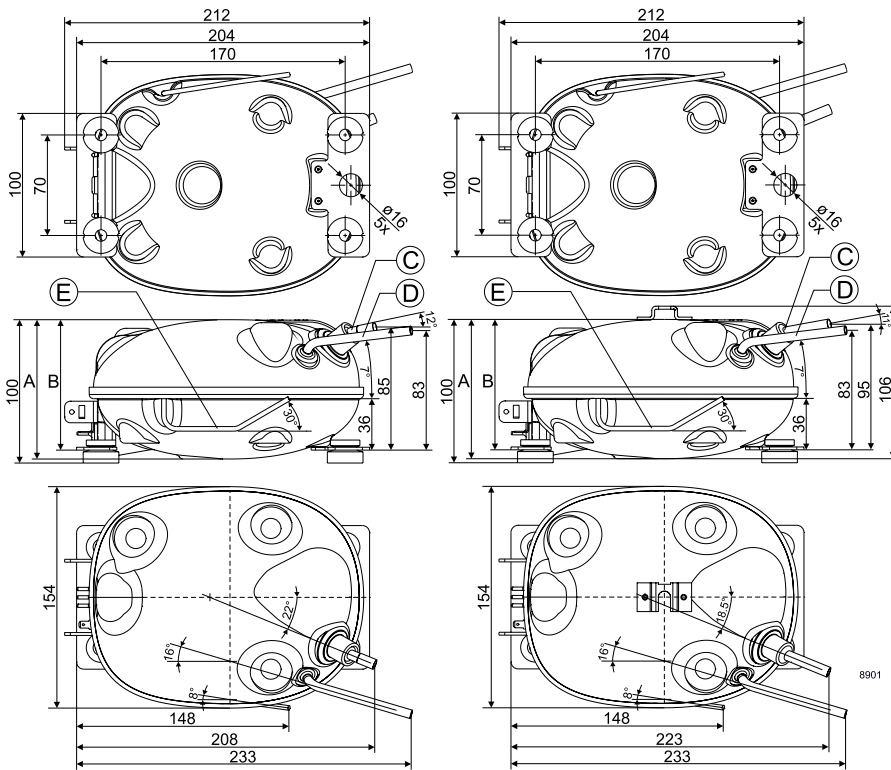
R600a • 220-240 V • 100-127 V • 50/60 Hz • X-Series • Controller

| Compressor | Code number | XV-AEO/Freq. 105N5022 Attached | XV-Frequency 105N5052 Detached | XV-AEO/Freq. 105N5320 Attached, PFC | XV-AEO/Freq. 105N5312 Attached | XV-Frequency 105N5150 Detached | XVL-AEO/Freq. 105N5324 Attached, PFC |
|------------|-------------|--|---|--|--|---|--|
| | | Voltage range: | Voltage range: | Voltage range: | Voltage range: | Voltage range: | Voltage range: |
| | | 160 - 264 V, 50/60 Hz | 160 - 264 V, 50/60 Hz | 160 - 264 V, 50/60 Hz | 90 - 135 V, 50/60 Hz | 90 - 135 V, 50/60 Hz | 160 - 264 V, 50/60 Hz |
| | | Inputs: Thermostat, Modbus, frequency signal | Input: Frequency signal | Inputs: Thermostat, Modbus, frequency signal | Inputs: Thermostat, Modbus, frequency signal | Input: Frequency signal | Inputs: Thermostat, Modbus, frequency signal |
| XV5.0KX | 108H5012 | ✓ | ✓ | ✓ | | | |
| XV5.0KX | 108H5013 | ✓ | ✓ | ✓ | | | |
| XV5.0KX | 108H5014 | | | | ✓ | ✓ | |
| XV5.0KX | 108H5015 | ✓ | ✓ | ✓ | | | |
| XV7.2KX | 108H7210 | ✓ | ✓ | ✓ | | | |
| XV7.2KX | 108H7211 | ✓ | ✓ | ✓ | | | |
| XV7.2KX | 108H7214 | | | | ✓ | ✓ | |
| XVL7.2KX | 108H7230 | | | | | | ✓ |
| XV8.0KX | 108H7710 | ✓ | ✓ | ✓ | | | |
| XV8.0KX | 108H7712 | ✓ | ✓ | ✓ | | | |
| XV8.0KX | 108H7714 | | | | ✓ | ✓ | |
| XVL8.0KX | 108H7730 | | | | | | ✓ |

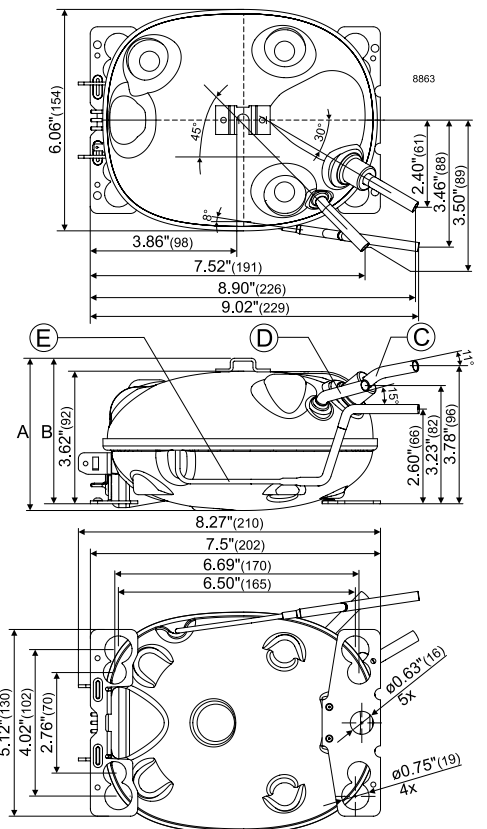
Refrigerators = 1 | Freezers = 2 | Beverage coolers = 3 | Commercial freezers = 4 | Minibars = 5 | Ice cream cabinets = 6
 Water coolers = 7 | Heat pumps = 8 | Wine coolers = 9 | Display cabinets = 10 | Ice makers = 11

| ARI | | | | | | Power | Displacement | Voltage and frequencies [* dual frequency type with 50/60 Hz] | Compressor cooling [refer to data sheet] | Dimensions | | | | | | alt. connectors available | Application |
|-----------------------------------|------|----------------------------------|------|----------------------------------|-----|-------|--------------|--|---|---------------|-----|---------------------------------------|---------------------|-------------------------------------|---|---------------------------|-------------|
| LBP rating point -10°F / 120°F | | MBP rating point 20°F / 120°F | | HBP rating point 45°F / 120°F | | | | | | Height [inch] | | Connectors location / diameter [inch] | | | | | |
| Cooling capacity [BTU/h] | EER | Cooling capacity [BTU/h] | EER | Cooling capacity [BTU/h] | EER | | | | | A | B | Suction C (I.D.) | Process D (I.D.) | Discharge E (O.D.) E (I.D.) * | | | |
| 68 | 5.03 | 162 | 7.77 | | | 1/12 | 0.31 | 160-264 V, 60 Hz * | S | 3.8 | 3.6 | 0.24 | 0.18 | 0.13 | X | 1 9 | |
| 266 | 4.92 | 637 | 7.34 | | | 1/12 | 0.31 | 160-264 V, 60 Hz * | S | 3.8 | 3.6 | 0.24 | 0.18 | 0.13 | X | 1 9 | |
| 68 | 5.03 | 162 | 7.77 | | | 1/12 | 0.31 | 160-264 V, 60 Hz * | S | 3.8 | 3.6 | 0.24 | 0.18 | 0.13 | X | 1 9 | |
| 266 | 4.92 | 637 | 7.34 | | | 1/12 | 0.31 | 160-264 V, 60 Hz * | S | 3.8 | 3.6 | 0.24 | 0.18 | 0.13 | X | 1 9 | |
| 68 | 5.25 | 162 | 7.95 | | | 1/12 | 0.31 | 90-135 V, 60 Hz * | S | 4.2 | 4.0 | 0.26 | 0.26 | 0.19 * | | 1 9 | |
| 266 | 5.27 | 637 | 7.45 | | | 1/12 | 0.31 | 90-135 V, 60 Hz * | S | 4.2 | 4.0 | 0.26 | 0.26 | 0.19 * | | 1 9 | |
| 68 | 5.03 | 162 | 7.77 | | | 1/12 | 0.31 | 160-264 V, 60 Hz * | S | 3.8 | 3.6 | 0.24 | 0.18 | 0.13 | X | 1 9 | |
| 266 | 4.92 | 637 | 7.34 | | | 1/12 | 0.31 | 160-264 V, 60 Hz * | S | 3.8 | 3.6 | 0.24 | 0.18 | 0.13 | X | 1 9 | |
| 116 | 5.24 | 275 | 8.14 | | | 1/12 | 0.44 | 160-264 V, 60 Hz * | S | 3.8 | 3.6 | 0.24 | 0.18 | 0.13 | X | 1 2 | |
| 422 | 4.89 | | | | | 1/8 | 0.44 | 160-264 V, 60 Hz * | S | 3.8 | 3.6 | 0.24 | 0.18 | 0.13 | X | 1 2 | |
| 116 | 5.24 | 275 | 8.14 | | | 1/12 | 0.44 | 160-264 V, 60 Hz * | S | 3.8 | 3.6 | 0.24 | 0.18 | 0.13 | X | 1 2 | |
| 422 | 4.89 | | | | | 1/8 | 0.44 | 160-264 V, 60 Hz * | S | 3.8 | 3.6 | 0.24 | 0.18 | 0.13 | X | 1 2 | |
| 116 | 5.26 | 275 | 8.20 | | | 1/12 | 0.44 | 90-135 V, 60 Hz * | S | 4.2 | 4.0 | 0.26 | 0.26 | 0.19 * | | 1 2 | |
| 422 | 4.79 | | | | | 1/8 | 0.44 | 90-135 V, 60 Hz * | S | 4.2 | 4.0 | 0.26 | 0.26 | 0.19 * | | 1 2 | |
| 122 | 4.68 | 265 | 6.52 | | | 1/12 | 0.44 | 160-264 V, 60 Hz * | S | 3.8 | 3.6 | 0.24 | 0.18 | 0.13 | | 1 2 | |
| 432 | 4.93 | | | | | 1/7 | 0.44 | 160-264 V, 60 Hz * | S | 3.8 | 3.6 | 0.24 | 0.18 | 0.13 | | 1 2 | |
| 123 | 5.28 | 275 | 8.20 | | | 1/12 | 0.47 | 160-264 V, 60 Hz * | S | 3.8 | 3.6 | 0.24 | 0.18 | 0.13 | X | 1 2 | |
| 465 | 5.00 | | | | | 1/7 | 0.47 | 160-264 V, 60 Hz * | S | 3.8 | 3.6 | 0.24 | 0.18 | 0.13 | X | 1 2 | |
| 123 | 5.28 | 275 | 8.20 | | | 1/12 | 0.47 | 160-264 V, 60 Hz * | S | 3.8 | 3.6 | 0.24 | 0.18 | 0.13 | X | 1 2 | |
| 465 | 5.00 | | | | | 1/7 | 0.47 | 160-264 V, 60 Hz * | S | 3.8 | 3.6 | 0.24 | 0.18 | 0.13 | X | 1 2 | |
| 123 | 5.31 | 275 | 8.29 | | | 1/12 | 0.47 | 90-135 V, 60 Hz * | S | 4.2 | 4.0 | 0.26 | 0.26 | 0.19 * | | 1 2 | |
| 465 | 4.88 | | | | | 1/7 | 0.47 | 90-135 V, 60 Hz * | S | 4.2 | 4.0 | 0.26 | 0.26 | 0.19 * | | 1 2 | |
| 131 | 4.71 | 286 | 6.56 | | | 1/12 | 0.47 | 160-264 V, 60 Hz * | S | 4.2 | 4.9 | 0.24 | 0.18 | 0.13 | | 1 2 | |
| 453 | 4.87 | | | | | 1/7 | 0.47 | 160-264 V, 60 Hz * | S | 4.2 | 4.9 | 0.24 | 0.18 | 0.13 | | 1 2 | |

XV • 220-240 V • 50/60 Hz



XV • 100-127 V • 50/60 Hz



R290 • 220-240 V • 100-127 V • 50/60 Hz • DLV- / NLV- / SLV-Series

| Compressor | Code number | Application | ASHRAE Capacity [BTU/h] T _c =130°F, T _{liq} =90°F, T _{suc} =90°F Evaporating temperature [°F] | | | | | | ASHRAE | | | | | | ARI Capacity [BTU/h] T _c =120°F, T _{liq} =120°F, T _{suc} =40°F Evaporating temperature [°F] | | | | | | | |
|---------------------|-------------|-------------|--|------|------|------|----|----|-----------------------------------|-----------------|----------------------------------|-----------------|----------------------------------|-----------------|--|---|------|------|------|------|--|--|
| | | | | | | | | | LBP rating point -10°F / 130°F | | MBP rating point 20°F / 130°F | | HBP rating point 45°F / 130°F | | | | | | | | | |
| | | | | | | | | | Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | | | | | | | | |
| | | | -31 | 5 | 23 | 32 | 50 | 59 | | | | | | | -31 | 5 | 23 | 32 | 50 | 59 | | |
| DLV4.0CN 2000 rpm | 102H3486 | L/MBP | 198 | 613 | 936 | 1136 | | | 408 | 5.26 | 784 | 7.60 | | | | | 170 | 497 | 747 | 897 | | |
| DLV4.0CN 4500 rpm | 102H3486 | L/MBP | 465 | 1434 | 2192 | 2659 | | | 955 | 5.39 | 1835 | 7.57 | | | | | 399 | 1165 | 1749 | 2101 | | |
| DLV5.7CN 2000 rpm | 102H4604 | L/MBP | 371 | 950 | 1409 | 1693 | | | 663 | 5.76 | 1184 | 7.44 | | | | | 310 | 763 | 1114 | 1327 | | |
| DLV5.7CN 4500 rpm | 102H4604 | L/MBP | 851 | 2182 | 3234 | 3886 | | | 1522 | 5.50 | 2718 | 7.10 | | | | | 712 | 1750 | 2557 | 3047 | | |
| NLV8.0CN 2000 rpm | 105H7800 | L/MBP | 511 | 1325 | 1993 | 2398 | | | 905 | 5.90 | 1673 | 7.74 | | | | | 414 | 1064 | 1580 | 1885 | | |
| NLV8.0CN 4500 rpm | 105H7800 | L/MBP | | 2819 | 4275 | 5155 | | | 1901 | 5.87 | 3585 | 7.82 | | | | | 2297 | 3426 | 4091 | | | |
| NLV8.0CN 2000 rpm | 105H7801 | L/MBP | 511 | 1325 | 1993 | 2398 | | | 905 | 5.90 | 1673 | 7.74 | | | | | 414 | 1064 | 1580 | 1885 | | |
| NLV8.0CN 4500 rpm | 105H7801 | L/MBP | | 2819 | 4275 | 5155 | | | 1901 | 5.87 | 3585 | 7.82 | | | | | 2297 | 3426 | 4091 | | | |
| NLV10CN 2000 rpm | 105H7000 | L/MBP | 693 | 1738 | 2586 | 3098 | | | 1200 | 5.92 | 2175 | 7.53 | | | | | 558 | 1387 | 2035 | 2416 | | |
| NLV10CN 4500 rpm | 105H7000 | L/MBP | | 3705 | 5521 | 6626 | | | 2554 | 6.01 | 4640 | 7.58 | | | | | 2960 | 4358 | 5189 | | | |
| NLV10CN 2000 rpm | 105H7001 | L/MBP | 693 | 1738 | 2586 | 3098 | | | 1200 | 5.92 | 2175 | 7.53 | | | | | 558 | 1387 | 2035 | 2416 | | |
| NLV10CN 4500 rpm | 105H7001 | L/MBP | | 3705 | 5521 | 6626 | | | 2554 | 6.01 | 4640 | 7.58 | | | | | 2960 | 4358 | 5189 | | | |
| NLV12.6CN 2000 rpm | 105H6355 | L/MBP | 838 | 2064 | 3062 | 3673 | | | 1439 | 5.74 | 2574 | 7.40 | | | | | 700 | 1671 | 2445 | 2910 | | |
| NLV12.6CN 4500 rpm | 105H6355 | L/MBP | | 4589 | 6809 | 8169 | | | 3198 | 5.66 | 5724 | 6.99 | | | | | 3714 | 5437 | 6471 | | | |
| NLV12.6CN 2000 rpm | 105H6356 | L/MBP | 838 | 2064 | 3062 | 3673 | | | 1439 | 5.74 | 2574 | 7.40 | | | | | 700 | 1671 | 2445 | 2910 | | |
| NLV12.6CN 4500 rpm | 105H6356 | L/MBP | | 4589 | 6809 | 8169 | | | 3198 | 5.66 | 5724 | 6.99 | | | | | 3714 | 5437 | 6471 | | | |
| SLV15CNK.2 2000 rpm | 104H8541 | LBP | 790 | 2269 | | | | | 1518 | 4.48 | | | | | | | 676 | 1850 | | | | |
| SLV15CNK.2 4000 rpm | 104H8541 | LBP | 1496 | 4429 | | | | | 3024 | 4.85 | | | | | | | 1308 | 3577 | | | | |
| SLV15CNK 2000 rpm | 104H8578 | LBP | 790 | 2269 | | | | | 1518 | 4.45 | | | | | | | 676 | 1850 | | | | |
| SLV15CNK 4000 rpm | 104H8578 | LBP | 1496 | 4429 | | | | | 3024 | 4.84 | | | | | | | 1308 | 3577 | | | | |

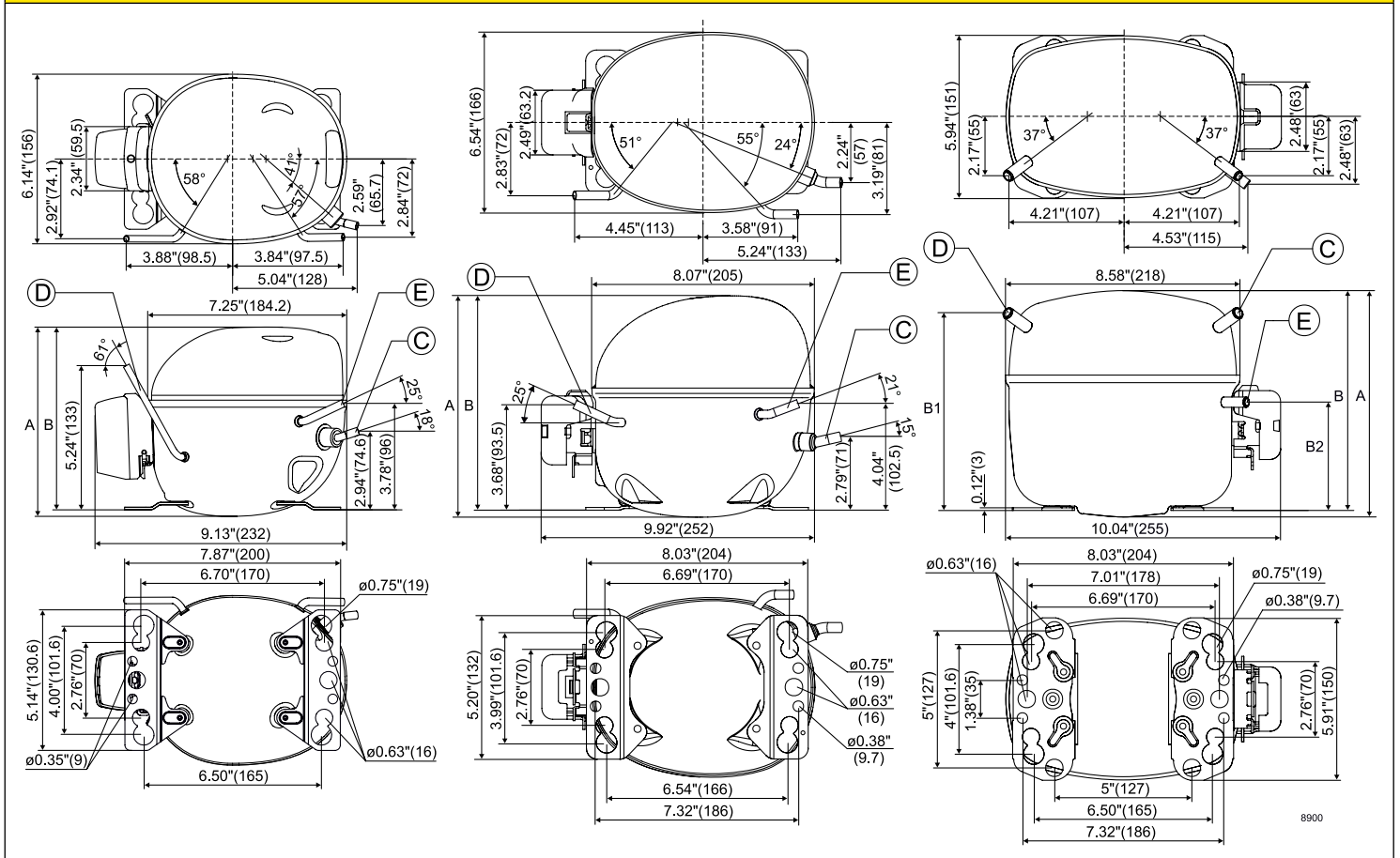
R290 • 220-240 V • 100-127 V • 50/60 Hz • DLV- / NLV- / SLV-Series • Controllers

| Compressor | Code number | DLV | NLV | NLV | SLV | SLV | | | | |
|---|-------------|---|---|---|---|--|--|--|---|--|
| | | 105N4460 Standard | 105N4710 Standard, PFC | 105N4760 Multi Voltage, PFC | 105N46xx Series General Purpose, PFC | 105N467x Series General Purpose, PFC | | | | |
| | | Voltage range: 90 - 140 V, 50/60 Hz | Voltage range: 180 - 270 V, 50/60 Hz | Voltage range: 90 - 270 V, 50/60 Hz | Voltage range: 180 - 254 V, 50/60 Hz | Voltage range: 95 - 135 V, 50/60 Hz | | | | |
| Inputs: Thermostat, defrost, communication, frequency signal | | Inputs: Thermostat, defrost, communication, frequency signal | | Inputs: Thermostat, defrost, communication, frequency signal | | Inputs: Modbus, integrated temperature controller | | Inputs: Modbus, integrated temperature controller | | |
| DLV4.0CN | 102H3486 | ✓ | | | | | | | | |
| DLV5.7CN | 102H4604 | ✓ | | | | | | | | |
| NLV8.0CN | 105H7800 | | ✓ | | ✓ | | | | | |
| NLV8.0CN | 105H7801 | | ✓ | | ✓ | | | | | |
| NLV10CN | 105H7000 | | ✓ | | ✓ | | | | | |
| NLV10CN | 105H7001 | | ✓ | | ✓ | | | | | |
| NLV12.6CN | 105H6355 | | ✓ | | ✓ | | | | | |
| NLV12.6CN | 105H6356 | | ✓ | | ✓ | | | | | |
| SLV15CNK.2 | 104H8541 | | | | ✓ | | | | | |
| SLV15CNK | 104H8578 | | | | | | | | ✓ | |

Refrigerators = 1 | Freezers = 2 | Beverage coolers = 3 | Commercial freezers = 4 | Minibars = 5 | Ice cream cabinets = 6
 Water coolers = 7 | Heat pumps = 8 | Wine coolers = 9 | Display cabinets = 10 | Ice makers = 11

| ARI | | | | | | Power | Displacement | Voltage and frequencies [* dual frequency type with 50/60 Hz] | Compressor cooling cooling (refer to data sheet) | Dimensions | | | | | alt. connectors available | Application |
|-----------------------------------|------|----------------------------------|------|----------------------------------|-----|-------|--------------|--|--|------------------|---------------------------------------|------|---------------------|---------------------|---------------------------|----------------|
| LBP rating point -10°F / 120°F | | MBP rating point 20°F / 120°F | | HBP rating point 45°F / 120°F | | | | | | Height [inch] | Connectors location / diameter [inch] | | | | | |
| Cooling capacity [BTU/h] | EER | Cooling capacity [BTU/h] | EER | Cooling capacity [BTU/h] | EER | | | | | | A | B | Suction C (I.D.) | Process D (I.D.) | | |
| 337 | 4.46 | 701 | 7.20 | | | 1/8 | 0.24 | 90-270 V, 60 Hz * | F2 | 6.9 | 6.7 | 0.32 | 0.26 | 0.26 | | 1 2 3 4 6 10 |
| 788 | 4.58 | 1641 | 7.20 | | | 1/4 | 0.24 | 90-270 V, 60 Hz * | F2 | 6.9 | 6.7 | 0.32 | 0.26 | 0.26 | | 1 2 3 4 6 10 |
| 539 | 4.84 | 1049 | 7.02 | | | 1/6 | 0.35 | 95-135 V, 60 Hz * | F2 | 6.9 | 6.7 | 0.32 | 0.26 | 0.26 | | 1 2 3 4 6 10 |
| 1236 | 4.62 | 2407 | 6.70 | | | 2/5 | 0.35 | 95-135 V, 60 Hz * | F2 | 6.9 | 6.7 | 0.32 | 0.26 | 0.26 | | 1 2 3 4 6 10 |
| 732 | 4.98 | 1485 | 7.35 | | | 1/4 | 0.49 | 90-270 V, 60 Hz * | F2 | 8.0 | 7.8 | 0.32 | 0.24 | 0.24 | X | 1 2 3 4 6 8 10 |
| 1566 | 4.93 | 3219 | 7.26 | | | 1/2 | 0.49 | 90-270 V, 60 Hz * | F2 | 8.0 | 7.8 | 0.32 | 0.24 | 0.24 | X | 1 2 3 4 6 8 10 |
| 732 | 4.98 | 1485 | 7.35 | | | 1/4 | 0.49 | 90-270 V, 60 Hz * | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 1 2 3 4 6 8 10 |
| 1566 | 4.93 | 3219 | 7.26 | | | 1/2 | 0.49 | 90-270 V, 60 Hz * | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 1 2 3 4 6 8 10 |
| 965 | 5.00 | 1916 | 7.17 | | | 1/3 | 0.62 | 90-270 V, 60 Hz * | F2 | 8.0 | 7.8 | 0.32 | 0.24 | 0.24 | X | 1 2 3 4 6 8 10 |
| 2057 | 4.96 | 4100 | 6.95 | | | 3/4 | 0.62 | 90-270 V, 60 Hz * | F2 | 8.0 | 7.8 | 0.32 | 0.24 | 0.24 | X | 1 2 3 4 6 8 10 |
| 965 | 5.00 | 1916 | 7.17 | | | 1/3 | 0.62 | 90-270 V, 60 Hz * | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 1 2 3 4 6 8 10 |
| 2057 | 4.96 | 4100 | 6.95 | | | 3/4 | 0.62 | 90-270 V, 60 Hz * | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 1 2 3 4 6 8 10 |
| 1177 | 4.84 | 2302 | 6.99 | | | 3/8 | 0.77 | 198-254 V, 60 Hz * | F2 | 8.0 | 7.8 | 0.32 | 0.24 | 0.24 | X | 1 2 3 4 6 8 10 |
| 2616 | 4.79 | 5118 | 6.63 | | | 5/6 | 0.77 | 198-254 V, 60 Hz * | F2 | 8.0 | 7.8 | 0.32 | 0.24 | 0.24 | X | 1 2 3 4 6 8 10 |
| 1177 | 4.84 | 2302 | 6.99 | | | 3/8 | 0.77 | 198-254 V, 60 Hz * | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 1 2 3 4 6 8 10 |
| 2616 | 4.79 | 5118 | 6.63 | | | 5/6 | 0.77 | 198-254 V, 60 Hz * | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 1 2 3 4 6 8 10 |
| 1261 | 3.88 | | | | | 2/5 | 0.93 | 180-254 V, 60 Hz * | F2 | 7.8 | 7.6 | 0.40 | 0.24 | 0.24 | | 4 10 |
| 2490 | 4.05 | | | | | 5/6 | 0.93 | 180-254 V, 60 Hz * | F2 | 7.8 | 7.6 | 0.40 | 0.24 | 0.24 | | 4 10 |
| 1261 | 3.85 | | | | | 2/5 | 0.93 | 95-135 V, 60 Hz * | F2 | 7.8 | 7.6 | 0.40 | 0.24 | 0.24 | | 4 10 |
| 2490 | 4.04 | | | | | 5/6 | 0.93 | 95-135 V, 60 Hz * | F2 | 7.8 | 7.6 | 0.40 | 0.24 | 0.24 | | 4 10 |

DLV / NLV / SLV



WITH MORE THAN 60 YEARS OF EXPERIENCE IN COMPRESSOR TECHNOLOGY AND HIGHLY DEDICATED EMPLOYEES, OUR FOCUS IS ON DEVELOPING AND

APPLYING ADVANCED COMPRESSOR TECHNOLOGIES TO ACHIEVE STANDARD SETTING PERFORMANCE FOR LEADING PRODUCTS AND BUSINESSES AROUND THE WORLD.

R134a

220-240 V | 60 Hz



| | |
|----------------|-------|
| P-Series | 28-29 |
| T-Series | 30-31 |
| N-Series..... | 32-35 |
| F-Series | 36-37 |
| S-Series | 38-41 |

Chemical formula

CH₂FCF₃

Typelabel

Typelabel stripe colour: Blue
Typelabel colour: Yellow

Applications

- LBP:** Low Back Pressure
- HBP:** High Back Pressure
- MBP:** Medium Back Pressure

Motor types

- RSIR:** Resistant Start Induction Run
- RSCR:** Resistant Start Capacitor Run
- CSIR:** Capacitor Start Induction Run
- CSR:** Capacitor Start Run

Compressor cooling

- S = Static cooling normally sufficient
- O = Oil cooling
- F₁ = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
- F₂ = Fan cooling 3.0 m/s necessary

Starting devices

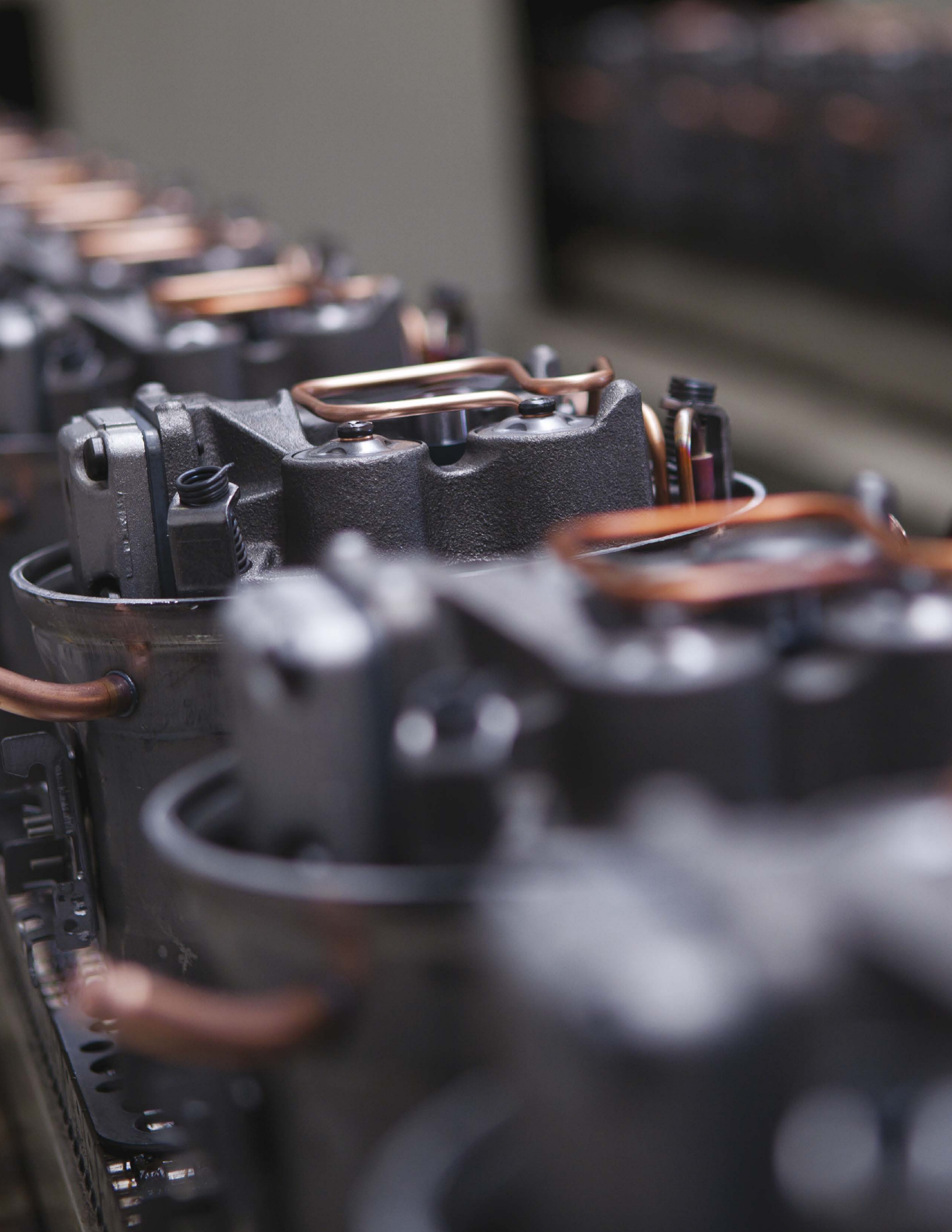
- LST:** Low Starting Torque
LST is used with capillary tube control and pressure equalizing. (Pressure equalizing may exceed 10 minutes).The PTC starting device requires 5 minutes cooling before each start.
To fulfil the requirements of EN 60355-2-34 the protection screen 103N0476 must be applied to the PTC starting device.
- HST:** High Starting Torque
HST consisting of relay and starting capacitor is used for expansion valve control or for capillary tube control without pressure equalizing.
- ePTC:** Electronically controlled PTC
 - Compressor restart possible after a few seconds
 - Operational wattage loss reduced by 2 watt
 - PTC protection screen not needed (surface temp. < 179.6 °F)
 - Temperature resistant up to min. +140 °F

Test conditons

Electrical equipment being used is listed in our data sheets

1 Watt = 0.86 kcal/h
1 Watt = 3.41 Btu/h





R134a • 220-240 V • 60 Hz • P-Series

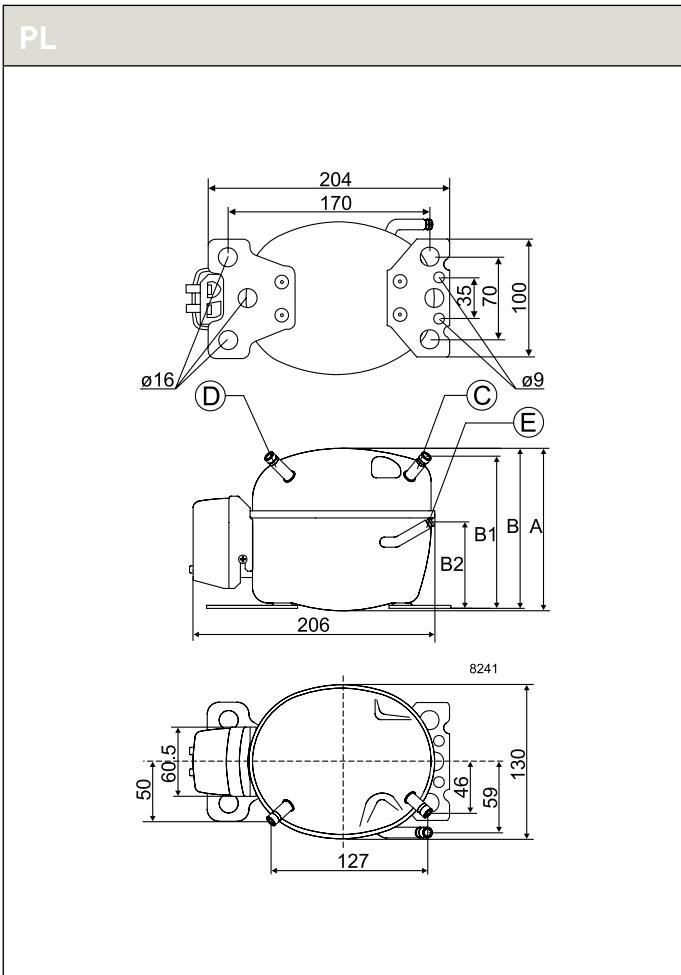
| Compressor | Code number | Application | ASHRAE Capacity [BTU/h] T _c =130°F, T _{liq} =90°F, T _{suc} =90°F Evaporating temperature [°F] | | | | | | ASHRAE | | | | | | ARI Capacity [BTU/h] T _c =120°F, T _{liq} =120°F, T _{suc} =40°F Evaporating temperature [°F] | | | | | | | |
|------------|-------------|-------------|--|-----|-----------------|-----|------|-----|----------------------------------|-----------------|----------------------------------|-----------------|-----------------------------|-----------------|--|--|--|-----|-----|-----|-----|-----|
| | | | LBP rating point -10°F / 130°F | | | | | | MBP rating point 20°F / 130°F | | HBP rating point 45°F / 130°F | | | | | | | | | | | |
| | | | Cooling capacity [BTU/h] | | EER [BTU/Wh] | | | | Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | | | | | | | | |
| -31 | 5 | 23 | 32 | 50 | 59 | | | | | | | | | | | | | | | | | |
| PL35G | 101G0250 | M/HBP | 261 | 438 | 553 | 849 | 1034 | 155 | 2.71 | 368 | 4.47 | 689 | 6.45 | | | | | 181 | 298 | 371 | 568 | 700 |

R134a • 220-240 V • 60 Hz • P-Series • Electrical Equipment

| Compressor | Code number | LST (RSIR & RSCR) - refer to data sheet for more info | | | | | Run capacitor (RC) | | HST (CSIR & CSR) - * alt. cable lengths avail. | | | | LST/HST | |
|------------|-------------|---|-----------|---------------------------------------|-----------|-----------|--|----------------|--|-------------------|----------------|-------------|----------|--|
| | | PTC starting device | | PTC starting device with RC connector | | ePTC | optional or compulsory (refer to data sheet) | Starting relay | Starting capacitor | Starting device * | Starting kit * | Cord relief | Cover | |
| | | Spades | | Spades | | Spades | Spades | Spades | | Spades | | | | |
| | | 1/4 inch | 3/16 inch | 1/4 inch | 3/16 inch | 3/16 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 1/4 inch | 1/4 inch | | |
| PL35G | 101G0250 | 103N0011 | 103N0018 | | | | | 117U6021 | 117U5014 | | | 103N1010 | 103N0491 | |

Refrigerators = 1 | Freezers = 2 | Beverage coolers = 3 | Commercial freezers = 4 | Minibars = 5 | Ice cream cabinets = 6
 Water coolers = 7 | Heat pumps = 8 | Wine coolers = 9 | Display cabinets = 10 | Ice makers = 11

| ARI | | | | | | Power | Displacement | Voltage and frequencies [* dual frequency type with 50/60 Hz] | Compressor cooling cooling (refer-data sheet) | Dimensions | | | | | | Application | |
|-----------------------------------|-----------------|----------------------------------|-----------------|----------------------------------|-----------------|-------|--------------|--|---|------------------|------------------------------------|---------|-----------------|-----------------|---|-------------|------------------------------|
| LBP rating point -10°F / 120°F | | MBP rating point 20°F / 120°F | | HBP rating point 45°F / 120°F | | | | | | Height [inch] | Connectors location/I.D. [inch] | | | | | | alt. connectors available |
| Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | | | | | | Suction | Process | Dis-charge E | Oil cooler F | | | |
| 110 | 1.74 | 275 | 2.97 | 503 | 4.23 | 1/20 | 0.12 | 198-254 V, 60 Hz * | F1 | 5.4 | 5.3 | 0.24 | 0.24 | 0.20 | X | 3 9 | |



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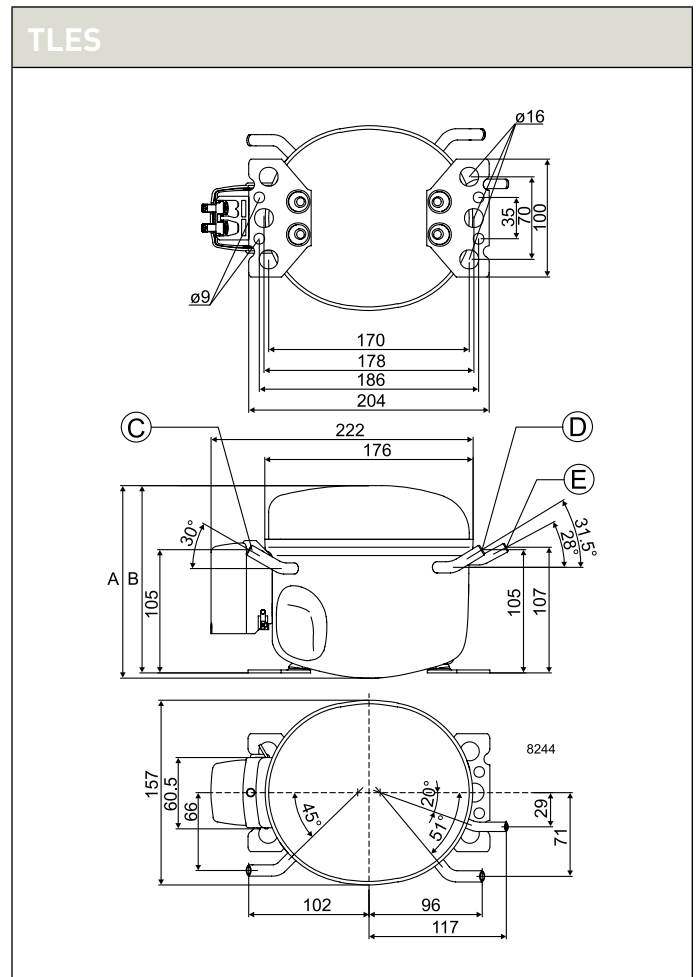
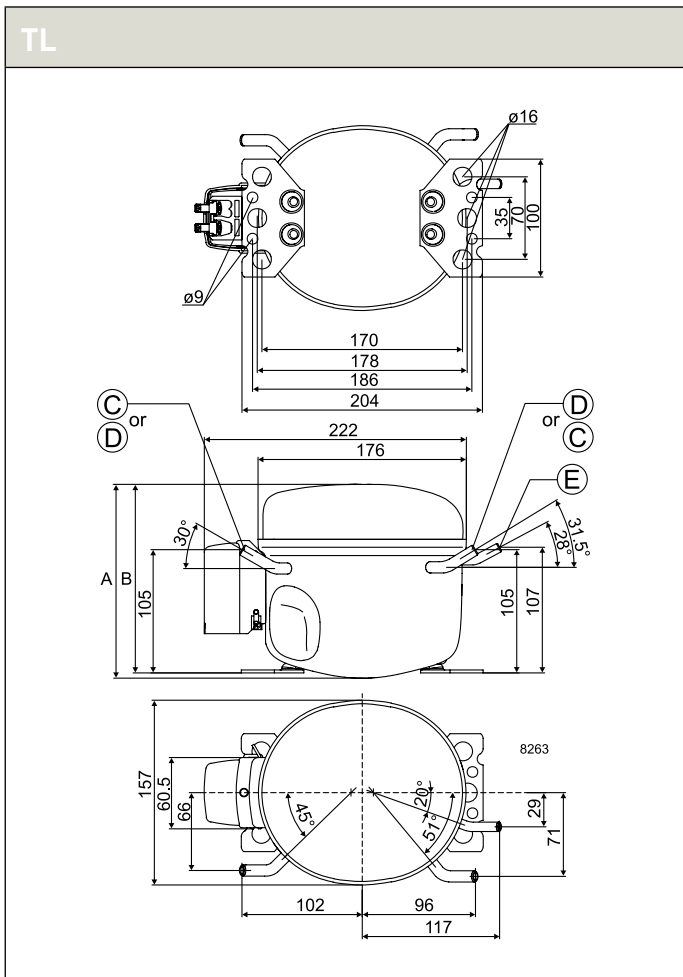
| Compressor | Code number | Application | ASHRAE Capacity [BTU/h] T _c =130°F, T _{liq} =90°F, T _{suc} =90°F Evaporating temperature [°F] | | | | | | ASHRAE | | | | | | ARI Capacity [BTU/h] T _c =120°F, T _{liq} =120°F, T _{suc} =40°F Evaporating temperature [°F] | | | | | |
|-------------|-------------|-------------|--|------|------|------|----|----|----------------------------------|-----------------|----------------------------------|-----------------|-----------------------------|-----------------|--|-----|-----|-----|------|------|
| | | | LBP rating point -10°F / 130°F | | | | | | MBP rating point 20°F / 130°F | | HBP rating point 45°F / 130°F | | | | | | | | | |
| | | | -31 | 5 | 23 | 32 | 50 | 59 | Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | -31 | 5 | 23 | 32 | 50 | 59 |
| TL2.5G | 102G4250 | L/M/HBP | 60 | 342 | 570 | 715 | | | 202 | 2.88 | 471 | 4.55 | 864 | 6.35 | 67 | 291 | 474 | 589 | 873 | 1046 |
| TL2.5G | 102G4251 | L/M/HBP | 60 | 342 | 570 | 715 | | | 202 | 2.88 | 471 | 4.55 | 864 | 6.35 | 67 | 291 | 474 | 589 | 873 | 1046 |
| TL2.5G | 102G4252 | L/M/HBP | 60 | 342 | 570 | 715 | | | 202 | 2.88 | 471 | 4.55 | 864 | 6.35 | 67 | 291 | 474 | 589 | 873 | 1046 |
| TL3G | 102G4350 | L/M/HBP | | 402 | 682 | | | | 231 | 3.15 | 562 | 4.59 | | | | 338 | 554 | | | |
| TL3G | 102G4352 | L/M/HBP | | 402 | 682 | | | | 231 | 3.15 | 562 | 4.59 | | | | 338 | 554 | | | |
| TL3G | 102G4353 | L/M/HBP | | 402 | 682 | | | | 231 | 3.15 | 562 | 4.59 | | | | 338 | 554 | | | |
| TL4G | 102G4452 | L/M/HBP | | 539 | 891 | | | | 329 | 3.60 | 737 | 5.05 | | | | 444 | 717 | | | |
| TL4G | 102G4458 | L/M/HBP | | 539 | 891 | | | | 329 | 3.60 | 737 | 5.05 | | | | 444 | 717 | | | |
| TL4G | 102G4463 | L/M/HBP | | 539 | 891 | | | | 329 | 3.60 | 737 | 5.05 | | | | 444 | 717 | | | |
| TL4G | 102G4466 | L/M/HBP | | 539 | 891 | | | | 329 | 3.60 | 737 | 5.05 | | | | 444 | 717 | | | |
| TL5G | 102G4550 | L/M/HBP | | 683 | 1099 | | | | 429 | 3.84 | 911 | 4.93 | | | | 556 | 876 | | | |
| TL5G | 102G4552 | L/M/HBP | | 683 | 1099 | | | | 429 | 3.84 | 911 | 4.93 | | | | 556 | 876 | | | |
| TL5G | 102G4553 | L/M/HBP | | 683 | 1099 | | | | 429 | 3.84 | 911 | 4.93 | | | | 556 | 876 | | | |
| TL5G | 102G4564 | L/M/HBP | | 683 | 1099 | | | | 429 | 3.84 | 911 | 4.93 | | | | 556 | 876 | | | |
| TL5G | 102G4566 | L/M/HBP | | 683 | 1099 | | | | 429 | 3.84 | 911 | 4.93 | | | | 556 | 876 | | | |
| TL5G | 102G4567 | L/M/HBP | | 683 | 1099 | | | | 429 | 3.84 | 911 | 4.93 | | | | 556 | 876 | | | |
| TL4GH | 102G4455 | HBP | | 507 | 886 | 1123 | | | | | 728 | 4.86 | 1368 | 6.80 | | 456 | 746 | 925 | 1368 | 1639 |
| TLES6.5FT.3 | 102G4703 | LBP | 355 | 1130 | | | | | 729 | 4.65 | | | | | 297 | 923 | | | | |
| TLES6.5FT.3 | 102G4704 | LBP | 355 | 1130 | | | | | 729 | 4.65 | | | | | 297 | 923 | | | | |
| TLES7FT.4 | 102G4708 | LBP | 355 | 1130 | | | | | 729 | 4.65 | | | | | 297 | 923 | | | | |
| TLES6.5FT.3 | 102G4709 | LBP | 355 | 1130 | | | | | 729 | 4.65 | | | | | 297 | 923 | | | | |
| TLES6.5FT.3 | 102G4724 | LBP | 355 | 1130 | | | | | 729 | 4.65 | | | | | 297 | 923 | | | | |

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| Compressor * pre-assembled start equipment | Code number | LST (RSIR & RSCR) - refer to data sheet for more info | | | | | Run capacitor (RC) | | HST (CSIR & CSR) - * alt. cable lengths avail. | | | | LST/HST | | |
|---|-------------|---|-----------|---------------------------------------|-----------|-----------|--|----------------|--|-------------------|----------------|-------------|----------|----------|----------|
| | | PTC starting device | | PTC starting device with RC connector | | ePTC | optional or compulsory (refer to data sheet) | Starting relay | Starting capacitor | Starting device * | Starting kit * | Cord relief | Cover | | |
| | | Spades | | Spades | | Spades | Spades | Spades | | Spades | | | | | |
| | | 1/4 inch | 3/16 inch | 1/4 inch | 3/16 inch | 3/16 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 1/4 inch | 1/4 inch | | | |
| TL2.5G | 102G4250 | 103N0011 | 103N0018 | | | | | | 117U6007 | 117U5014 | | | 103N1010 | 103N2010 | |
| TL2.5G | 102G4251 | 103N0011 | 103N0018 | | | | | | 117U6007 | 117U5014 | | | 103N1010 | 103N2011 | |
| TL2.5G | 102G4252 | 103N0011 | 103N0018 | | | | | | 117U6007 | 117U5014 | | | 103N1010 | 103N2010 | |
| TL3G | 102G4350 | 103N0011 | 103N0018 | | | | | | 117U6009 | 117U5014 | | | 103N1010 | 103N2010 | |
| TL3G | 102G4352 | 103N0011 | 103N0018 | | | | | | 117U6009 | 117U5014 | | | 103N1010 | 103N2011 | |
| TL3G | 102G4353 | 103N0011 | 103N0018 | | | | | | 117U6009 | 117U5014 | | | 103N1010 | 103N2010 | |
| TL4G | 102G4452 | 103N0011 | 103N0018 | | | | | | 117U6004 | 117U5014 | | | 103N1010 | 103N2010 | |
| TL4G | 102G4458 | 103N0011 | 103N0018 | | | | | | 117U6004 | 117U5014 | | | 103N1010 | 103N2011 | |
| TL4G * | 102G4463 | | | | | | | | 117U6004 | 117U5014 | | | 103N1010 | 103N2011 | |
| TL4G | 102G4466 | 103N0011 | 103N0018 | | | | | | 117U6004 | 117U5014 | | | 103N1010 | 103N2010 | |
| TL5G | 102G4550 | 103N0011 | 103N0018 | | | | | | 117U6000 | 117U5014 | | | 103N1010 | 103N2010 | |
| TL5G | 102G4552 | 103N0011 | 103N0018 | | | | | | 117U6000 | 117U5014 | | | 103N1010 | 103N2010 | |
| TL5G | 102G4553 | 103N0011 | 103N0018 | | | | | | 117U6000 | 117U5014 | | | 103N1010 | 103N2010 | |
| TL5G | 102G4564 | 103N0011 | 103N0018 | | | | | | 117U6000 | 117U5014 | | | 103N1010 | 103N2011 | |
| TL5G | 102G4566 | 103N0011 | 103N0018 | | | | | | 117U6000 | 117U5014 | | | 103N1010 | 103N2010 | |
| TL5G | 102G4567 | 103N0011 | 103N0018 | | | | | | 117U6000 | 117U5014 | | | 103N1010 | 103N2010 | |
| TL4GH | 102G4455 | | | | | | | | 117U6000 | 117U5014 | | | 103N1010 | 103N2011 | |
| TLES6.5FT.3 | 102G4703 | 103N0011 | 103N0018 | 103N0016 | 103N0021 | | | 117-7117 | 117-7119 | 117U6016 | 117U5014 | | | 103N1010 | 103N2010 |
| TLES6.5FT.3 | 102G4704 | 103N0011 | 103N0018 | 103N0016 | 103N0021 | | | 117-7117 | 117-7119 | 117U6016 | 117U5014 | | | 103N1010 | 103N2010 |
| TLES7FT.4 | 102G4708 | 103N0011 | 103N0018 | 103N0016 | 103N0021 | | | 117-7117 | 117-7119 | 117U6016 | 117U5014 | | | 103N1010 | 103N2010 |
| TLES6.5FT.3 * | 102G4709 | 103N0011 | 103N0018 | | | | | | | | | | | 103N1010 | 103N2010 |
| TLES6.5FT.3 | 102G4724 | 103N0011 | 103N0018 | 103N0016 | 103N0021 | | | 117-7117 | 117-7119 | 117U6016 | 117U5014 | | | 103N1010 | 103N2010 |

Refrigerators = 1 | Freezers = 2 | Beverage coolers = 3 | Commercial freezers = 4 | Minibars = 5 | Ice cream cabinets = 6
 Water coolers = 7 | Heat pumps = 8 | Wine coolers = 9 | Display cabinets = 10 | Ice makers = 11

| ARI | | | | | | Power | Displacement | Voltage and frequencies [* dual frequency type with 50/60 Hz] | Compressor cooling [refer-data sheet] | Dimensions | | | | | | Application |
|-----------------------------------|------|----------------------------------|------|----------------------------------|------|-------|--------------|--|--|---------------|-----|---------------------------------|---------|------------|------------|-------------|
| LBP rating point -10°F / 120°F | | MBP rating point 20°F / 120°F | | HBP rating point 45°F / 120°F | | | | | | Height [inch] | | Connectors location/I.D. [inch] | | | | |
| Cooling capacity [BTU/h] | EER | Cooling capacity [BTU/h] | EER | Cooling capacity [BTU/h] | EER | | | | | A | B | Suction | Process | Dis-charge | Oil cooler | |
| 179 | 2.58 | 439 | 4.35 | 786 | 6.00 | 1/12 | 0.16 | 198-254 V, 60 Hz * | S | 6.4 | 6.3 | 0.26 | 0.26 | 0.19 | X | 3 10 11 |
| 179 | 2.58 | 439 | 4.35 | 786 | 6.00 | 1/12 | 0.16 | 198-254 V, 60 Hz * | S | 6.4 | 6.3 | 0.24 | 0.24 | 0.20 | X | 3 10 11 |
| 179 | 2.58 | 439 | 4.35 | 786 | 6.00 | 1/12 | 0.16 | 198-254 V, 60 Hz * | S | 6.4 | 6.3 | 0.26 | 0.26 | 0.20 | X | 3 10 11 |
| 204 | 2.83 | 513 | 4.37 | | | 1/12 | 0.19 | 198-254 V, 60 Hz * | S | 6.4 | 6.3 | 0.24 | 0.24 | 0.20 | X | 6 10 |
| 204 | 2.83 | 513 | 4.37 | | | 1/12 | 0.19 | 198-254 V, 60 Hz * | S | 6.4 | 6.3 | 0.26 | 0.26 | 0.20 | X | 6 10 |
| 204 | 2.83 | 513 | 4.37 | | | 1/12 | 0.19 | 198-254 V, 60 Hz * | S | 6.4 | 6.3 | 0.24 | 0.24 | 0.20 | X | 6 10 |
| 277 | 3.01 | 665 | 4.77 | | | 1/12 | 0.24 | 198-254 V, 60 Hz * | S | 6.8 | 6.7 | 0.24 | 0.24 | 0.20 | X | 6 10 |
| 277 | 3.01 | 665 | 4.77 | | | 1/12 | 0.24 | 198-254 V, 60 Hz * | S | 6.8 | 6.7 | 0.26 | 0.26 | 0.20 | X | 6 10 |
| 277 | 3.01 | 665 | 4.77 | | | 1/12 | 0.24 | 198-254 V, 60 Hz * | S | 6.8 | 6.7 | 0.26 | 0.26 | 0.20 | X | 6 10 |
| 277 | 3.01 | 665 | 4.77 | | | 1/12 | 0.24 | 198-254 V, 60 Hz * | S | 6.8 | 6.7 | 0.24 | 0.24 | 0.20 | X | 6 10 |
| 358 | 3.22 | 816 | 4.61 | | | 1/8 | 0.31 | 198-254 V, 60 Hz * | S | 6.8 | 6.7 | 0.24 | 0.24 | 0.20 | X | 6 10 |
| 358 | 3.22 | 816 | 4.61 | | | 1/8 | 0.31 | 198-254 V, 60 Hz * | S | 6.8 | 6.7 | 0.32 | 0.24 | 0.20 | X | 6 10 |
| 358 | 3.22 | 816 | 4.61 | | | 1/8 | 0.31 | 198-254 V, 60 Hz * | S | 6.8 | 6.7 | 0.26 | 0.26 | 0.20 | X | 6 10 |
| 358 | 3.22 | 816 | 4.61 | | | 1/8 | 0.31 | 198-254 V, 60 Hz * | S | 6.8 | 6.7 | 0.24 | 0.24 | 0.20 | X | 6 10 |
| 358 | 3.22 | 816 | 4.61 | | | 1/8 | 0.31 | 198-254 V, 60 Hz * | S | 6.8 | 6.7 | 0.24 | 0.24 | 0.20 | X | 6 10 |
| 358 | 3.22 | 816 | 4.61 | | | 1/8 | 0.31 | 198-254 V, 60 Hz * | S | 6.8 | 6.7 | 0.24 | 0.24 | 0.20 | X | 6 10 |
| 691 | | 691 | 4.71 | 1232 | 6.34 | 1/8 | 0.24 | 198-254 V, 60 Hz * | F2 | 6.8 | 6.7 | 0.24 | 0.24 | 0.20 | | 8 |
| 602 | 3.92 | | | | | 1/5 | 0.40 | 198-254 V, 60 Hz * | S | 6.8 | 6.7 | 0.24 | 0.24 | 0.20 | X | 1 2 |
| 602 | 3.92 | | | | | 1/5 | 0.40 | 198-254 V, 60 Hz * | S | 6.8 | 6.7 | 0.26 | 0.26 | 0.20 | X | 1 2 |
| 602 | 3.92 | | | | | 1/5 | 0.40 | 198-254 V, 60 Hz * | S | 6.8 | 6.7 | 0.26 | 0.26 | 0.20 | | 1 2 |
| 602 | 3.92 | | | | | 1/5 | 0.40 | 198-254 V, 60 Hz * | S | 6.8 | 6.7 | 0.26 | 0.26 | 0.20 | X | 1 2 |
| 602 | 3.92 | | | | | 1/5 | 0.40 | 198-254 V, 60 Hz * | S | 6.8 | 6.7 | 0.24 | 0.24 | 0.20 | X | 1 2 |



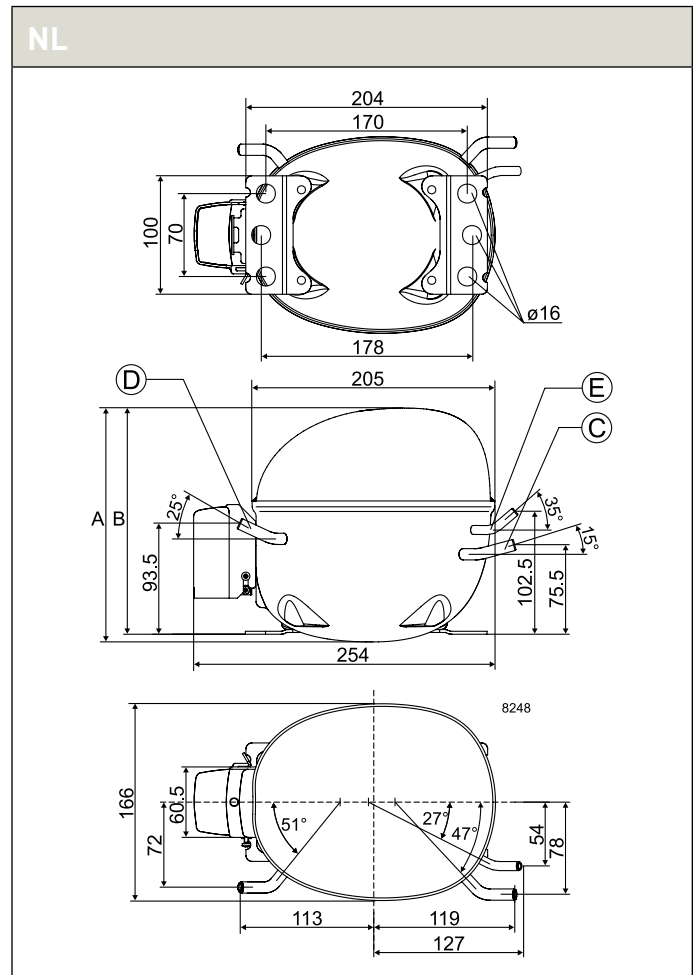
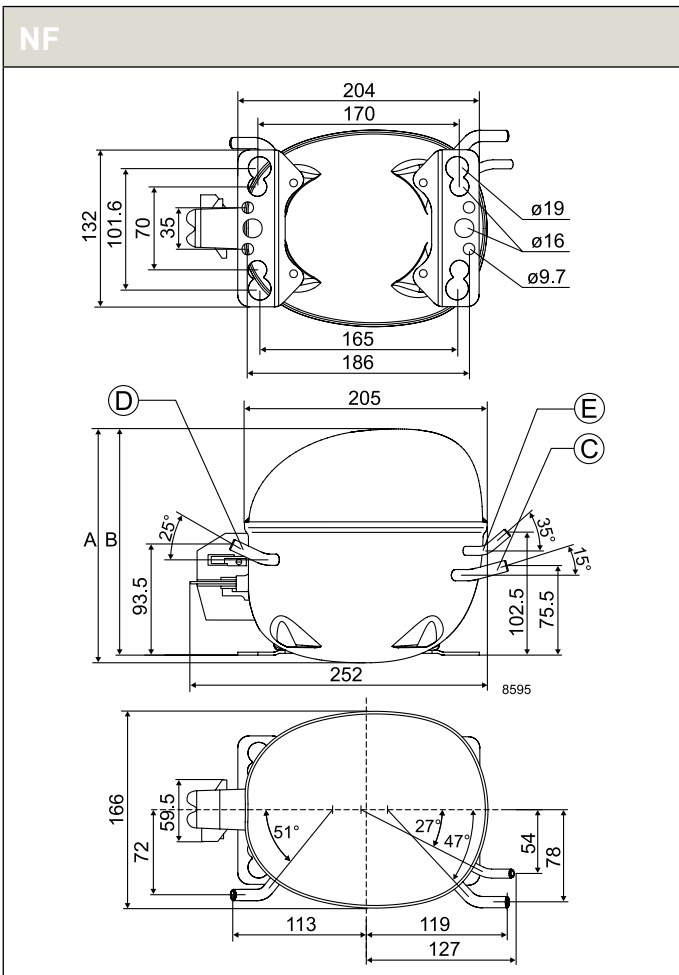
R134a • 220-240 V • 60 Hz • N-Series

| Compressor | Code number | Application | ASHRAE Capacity [BTU/h] T _c =130°F, T _{liq} =90°F, T _{suc} =90°F Evaporating temperature [°F] | | | | | | ASHRAE | | | | | | ARI Capacity [BTU/h] T _c =120°F, T _{liq} =120°F, T _{suc} =40°F Evaporating temperature [°F] | | | | | | | |
|------------|-------------|-------------|--|------|-----------------|------|--|--|----------------------------------|------|-----------------|------|----------------------------------|--|--|--|--|-----|------|------|------|--|
| | | | LBP rating point -10°F / 130°F | | | | | | MBP rating point 20°F / 130°F | | | | HBP rating point 45°F / 130°F | | | | | | | | | |
| | | | Cooling capacity [BTU/h] | | EER [BTU/Wh] | | | | Cooling capacity [BTU/h] | | EER [BTU/Wh] | | Cooling capacity [BTU/h] | | EER [BTU/Wh] | | | | | | | |
| -31 | 5 | 23 | 32 | 50 | 59 | | | | | | | | | | | | | | | | | |
| NL6FT | 105G6628 | LBP | 248 | 841 | | | | | 551 | 4.16 | | | | | | | | 209 | 684 | | | |
| NL9FT | 105G6858 | LBP | 384 | 1441 | | | | | 921 | 4.72 | | | | | | | | 324 | 1171 | | | |
| NL9FT | 105G6059 | LBP | 384 | 1441 | | | | | 921 | 4.72 | | | | | | | | 324 | 1171 | | | |
| NL10FT | 105G6140 | LBP | 559 | 1713 | | | | | 1126 | 4.37 | | | | | | | | 469 | 1377 | | | |
| NF7FX | 105G6743 | L/MBP | 389 | 1320 | 2066 | 2545 | | | 864 | 4.02 | 1719 | 5.56 | | | | | | 328 | 1073 | 1657 | 2023 | |
| NF10FX | 105G6167 | L/MBP | 512 | 1529 | 2405 | 2988 | | | 1021 | 3.90 | 1996 | 5.23 | | | | | | 417 | 1223 | 1922 | 2380 | |
| NF10FX | 105G6846 | L/MBP | 512 | 1529 | 2405 | 2988 | | | 1021 | 3.90 | 1996 | 5.23 | | | | | | 417 | 1223 | 1922 | 2380 | |
| NF10FX | 105G6863 | L/MBP | 512 | 1529 | 2405 | 2988 | | | 1021 | 3.90 | 1996 | 5.23 | | | | | | 417 | 1223 | 1922 | 2380 | |

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| Compressor * pre-assembled start equipment | Code number | LST (RSIR & RSCR) - refer to data sheet for more info | | | | | Run capacitor (RC) | | HST (CSIR & CSR) - * alt. cable lengths avail. | | | | LST/HST | |
|--|-------------|---|-----------|--|-----------|-----------|---|-------------------|--|----------------------|-------------------|----------------|----------|----------|
| | | PTC starting device | | PTC starting device with RC connector | | ePTC | optional or compulsory (refer to data sheet) | Starting relay | Starting capacitor | Starting device * | Starting kit * | Cord relief | Cover | |
| | | Spades | | Spades | | Spades | Spades | Spades | | Spades | | | | |
| | | 1/4 inch | 3/16 inch | 1/4 inch | 3/16 inch | 3/16 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 1/4 inch | 1/4 inch | | |
| NL6FT | 105G6628 | 103N0011 | 103N0018 | | | | | | 117U6000 | 117U5015 | | | 103N1010 | 103N2010 |
| NL9FT | 105G6858 | 103N0011 | 103N0018 | | | | | | 117U6015 | 117U5015 | | | 103N1010 | 103N2010 |
| NL9FT | 105G6059 | 103N0011 | 103N0018 | | | | | | 117U6015 | 117U5015 | | | 103N1010 | 103N2010 |
| NL10FT | 105G6140 | 103N0011 | 103N0018 | | | | | | 117U6002 | 117U5015 | | | 103N1010 | 103N2010 |
| NF7FX | 105G6743 | | | | | | | | 117U4140 | 117U5018 | | | 117U0349 | 117U1023 |
| NF10FX | 105G6167 | | | | | | | | 117U4139 | 117U5018 | | | 117U0349 | 117U1023 |
| NF10FX | 105G6846 | | | | | | | | 117U4139 | 117U5018 | | | 117U0349 | 117U1021 |
| NF10FX * | 105G6863 | | | | | | | | 117U4139 | 117U5018 | | | 117U0349 | 117U1023 |

| ARI | | | | | | Power | Displacement | Voltage and frequencies [* dual frequency type with 50/60 Hz] | Compressor cooling [refer-data sheet] | Dimensions | | | | | | Application |
|-----------------------------------|----------|----------------------------------|----------|----------------------------------|----------|-------|--------------|--|--|------------------|------------------------------------|---------|------------|------------|--|-------------|
| LBP rating point -10°F / 120°F | | MBP rating point 20°F / 120°F | | HBP rating point 45°F / 120°F | | | | | | Height [inch] | Connectors location/I.D. [inch] | | | | Oil cooler alt. connectors available | |
| Cooling capacity [BTU/h] | EER | Cooling capacity [BTU/h] | EER | Cooling capacity [BTU/h] | EER | | | | | | Suction | Process | Dis-charge | Oil cooler | | |
| [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | [HP] | [cu. inch] | | A | B | C | D | E | F | | |
| 452 | 3.44 | | | | | 1/7 | 0.37 | 198-254 V, 60 Hz * | S | 7.8 | 7.5 | 0.24 | 0.24 | 0.20 | | 2 |
| 756 | 3.89 | | | | | 1/4 | 0.51 | 198-254 V, 60 Hz * | F1 | 7.8 | 7.5 | 0.24 | 0.24 | 0.20 | X | 2 4 |
| 756 | 3.89 | | | | | 1/4 | 0.51 | 198-254 V, 60 Hz * | F1 | 7.8 | 7.5 | 0.24 | 0.24 | 0.20 | X | 2 4 |
| 916 | 3.61 | | | | | 3/10 | 0.62 | 187-253 V, 60 Hz * | S | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 2 4 |
| 710 | 3.32 | 1546 | 5.16 | | | 1/4 | 0.44 | 198-242 V, 60 Hz | F1 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 3 |
| 816 | 3.16 | 1786 | 4.82 | | | 3/10 | 0.62 | 198-242 V, 60 Hz * | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 3 |
| 816 | 3.16 | 1786 | 4.82 | | | 3/10 | 0.62 | 198-242 V, 60 Hz * | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 3 |
| 816 | 3.16 | 1786 | 4.82 | | | 3/10 | 0.62 | 198-242 V, 60 Hz * | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 3 |



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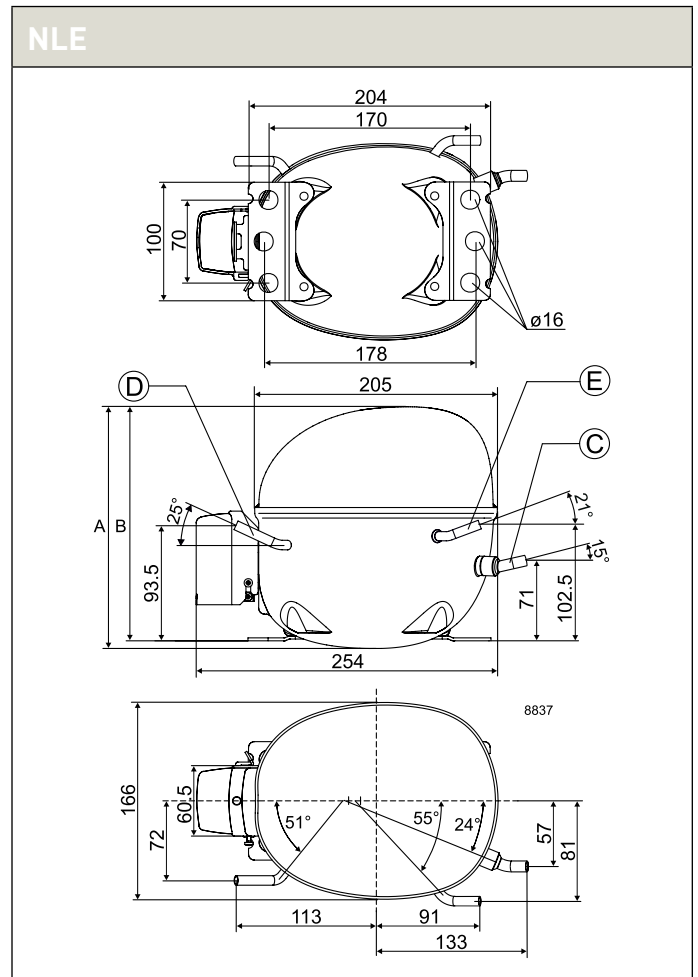
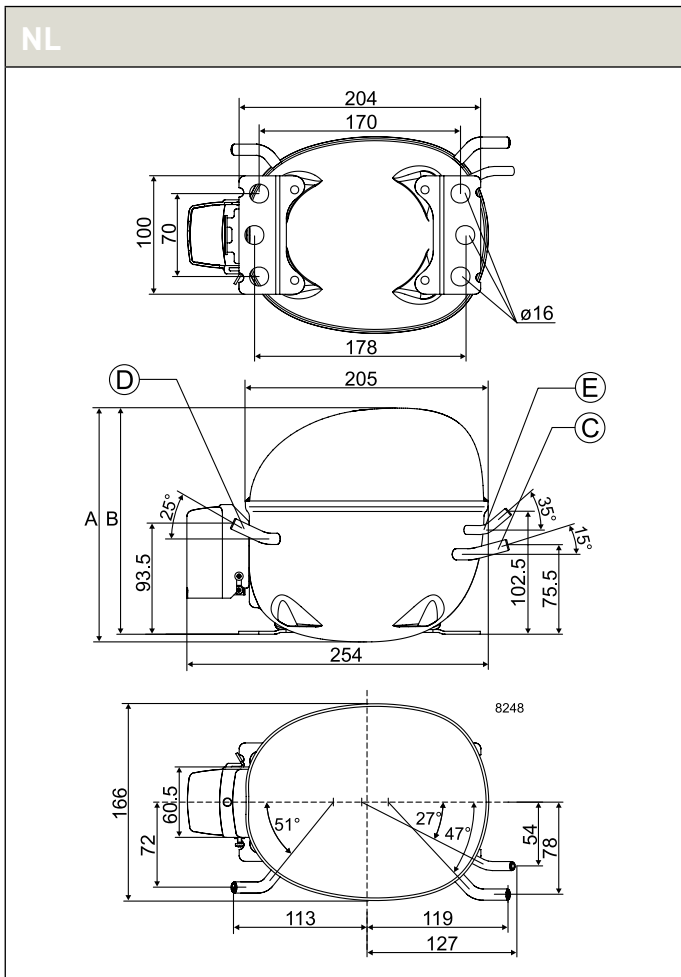
| Compressor | Code number | Application | ASHRAE Capacity [BTU/h] T _c =130°F, T _{liq} =90°F, T _{suc} =90°F Evaporating temperature [°F] | | | | | | ASHRAE | | | | | | ARI Capacity [BTU/h] T _c =120°F, T _{liq} =120°F, T _{suc} =40°F Evaporating temperature [°F] | | | | | | | | |
|-------------|-------------|-------------|--|------|------|------|----|----|----------------------------------|----------|---------|----------|----------------------------------|----------|--|---|----|-----|------|------|------|--|--|
| | | | LBP rating point -10°F / 130°F | | | | | | MBP rating point 20°F / 130°F | | | | HBP rating point 45°F / 130°F | | | | | | | | | | |
| | | | Cooling capacity | | EER | | | | Cooling capacity | | EER | | Cooling capacity | | EER | | | | | | | | |
| | | | -31 | 5 | 23 | 32 | 50 | 59 | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | -31 | 5 | 23 | 32 | 50 | 59 | | | |
| NL6.1MF | 105G6660 | MBP | 185 | 947 | 1586 | 1994 | | | 562 | 3.97 | 1308 | 5.54 | | | | | | 187 | 793 | 1299 | 1616 | | |
| NL6.1MF | 105G6661 | MBP | 185 | 947 | 1586 | 1994 | | | 562 | 3.97 | 1308 | 5.54 | | | | | | 187 | 793 | 1299 | 1616 | | |
| NL6.1MF | 105G6662 | MBP | 185 | 947 | 1586 | 1994 | | | 562 | 3.97 | 1308 | 5.54 | | | | | | 187 | 793 | 1299 | 1616 | | |
| NL6.1MF | 105G6665 | MBP | 185 | 947 | 1586 | 1994 | | | 562 | 3.97 | 1308 | 5.54 | | | | | | 187 | 793 | 1299 | 1616 | | |
| NL7.3MF | 105G6772 | MBP | 313 | 1199 | 1943 | 2418 | | | 751 | 4.06 | 1609 | 5.42 | | | | | | 291 | 995 | 1583 | 1952 | | |
| NL7.3MF | 105G6773 | MBP | 313 | 1199 | 1943 | 2418 | | | 751 | 4.06 | 1609 | 5.42 | | | | | | 291 | 995 | 1583 | 1952 | | |
| NL7.3MF | 105G6775 | MBP | 313 | 1199 | 1943 | 2418 | | | 751 | 4.06 | 1609 | 5.42 | | | | | | 291 | 995 | 1583 | 1952 | | |
| NL7.3MF | 105G6777 | MBP | 313 | 1199 | 1943 | 2418 | | | 751 | 4.06 | 1609 | 5.42 | | | | | | 291 | 995 | 1583 | 1952 | | |
| NL8.4MF | 105G6877 | MBP | 329 | 1377 | 2257 | 2819 | | | 847 | 4.20 | 1867 | 5.53 | | | | | | 313 | 1147 | 1842 | 2279 | | |
| NL8.4MF | 105G6879 | MBP | 329 | 1377 | 2257 | 2819 | | | 847 | 4.20 | 1867 | 5.53 | | | | | | 313 | 1147 | 1842 | 2279 | | |
| NL10MF | 105G6062 | MBP | 465 | 1716 | 2753 | 3417 | | | 1090 | 4.40 | 2283 | 5.66 | | | | | | 413 | 1401 | 2214 | 2726 | | |
| NL10MF | 105G6155 | MBP | 465 | 1716 | 2753 | 3417 | | | 1090 | 4.40 | 2283 | 5.66 | | | | | | 413 | 1401 | 2214 | 2726 | | |
| NL10MF | 105G6870 | MBP | 465 | 1716 | 2753 | 3417 | | | 1090 | 4.40 | 2283 | 5.66 | | | | | | 413 | 1401 | 2214 | 2726 | | |
| NL10MF | 105G6885 | MBP | 465 | 1716 | 2753 | 3417 | | | 1090 | 4.40 | 2283 | 5.66 | | | | | | 413 | 1401 | 2214 | 2726 | | |
| NL10MF | 105G6886 | MBP | 465 | 1716 | 2753 | 3417 | | | 1090 | 4.40 | 2283 | 5.66 | | | | | | 413 | 1401 | 2214 | 2726 | | |
| NL10MF | 105G6196 | MBP | 465 | 1716 | 2753 | 3417 | | | 1090 | 4.40 | 2283 | 5.66 | | | | | | 413 | 1401 | 2214 | 2726 | | |
| NLE12.6MF.2 | 105G6387 | L/MBP | 1009 | 2276 | 3737 | 4677 | | | 1481 | 5.34 | 3088 | 7.14 | | | | | | 748 | 1884 | 3042 | 3763 | | |
| NLE12.6MFT | 105G6388 | L/MBP | 1009 | 2276 | 3737 | 4677 | | | 1481 | 5.34 | 3088 | 7.14 | | | | | | 748 | 1884 | 3042 | 3763 | | |

R134a • 220-240 V • 60 Hz • N-Series • Electrical Equipment

| Compressor * pre-assembled start equipment | Code number | LST (RSIR & RSCR) - refer to data sheet for more info | | | | | | Run capacitor (RC) | | HST (CSIR & CSR) - * alt. cable lengths avail. | | | | LST/HST | |
|--|-------------|---|-----------|--|-----------|-----------|---|--------------------|----------------|--|-------------------|----------------|-------------|----------|----------|
| | | PTC starting device | | PTC starting device with RC connector | | ePTC | optional or compulsory (refer to data sheet) | | Starting relay | Starting capacitor | Starting device * | Starting kit * | Cord relief | Cover | |
| | | Spades | | Spades | | Spades | Spades | | Spades | | Spades | | | | |
| | | 1/4 inch | 3/16 inch | 1/4 inch | 3/16 inch | 3/16 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 1/4 inch | 1/4 inch | | | |
| NL6.1MF | 105G6660 | 103N0011 | 103N0018 | | | | | | 117U6015 | 117U5015 | | | | 103N1010 | 103N2011 |
| NL6.1MF | 105G6661 | 103N0011 | 103N0018 | | | | | | 117U6015 | 117U5015 | | | | 103N1010 | 103N2011 |
| NL6.1MF | 105G6662 | 103N0011 | 103N0018 | | | | | | 117U6015 | 117U5015 | | | | 103N1010 | 103N2011 |
| NL6.1MF | 105G6665 | 103N0011 | 103N0018 | | | | | | 117U6015 | 117U5015 | | | | 103N1010 | 103N2011 |
| NL7.3MF | 105G6772 | 103N0011 | 103N0018 | | | | | | 117U6016 | 117U5015 | | | | 103N1010 | 103N2011 |
| NL7.3MF | 105G6773 | 103N0011 | 103N0018 | | | | | | 117U6016 | 117U5015 | | | | 103N1010 | 103N2011 |
| NL7.3MF | 105G6775 | 103N0011 | 103N0018 | | | | | | 117U6016 | 117U5015 | | | | 103N1010 | 103N2011 |
| NL7.3MF | 105G6777 | 103N0011 | 103N0018 | | | | | | 117U6016 | 117U5015 | | | | 103N1010 | 103N2011 |
| NL8.4MF | 105G6877 | 103N0011 | 103N0018 | | | | | | 117U6016 | 117U5015 | | | | 103N1010 | 103N2011 |
| NL8.4MF | 105G6879 | 103N0011 | 103N0018 | | | | | | 117U6016 | 117U5015 | | | | 103N1010 | 103N2011 |
| NL10MF | 105G6062 | 103N0011 | 103N0018 | | | | | | 117U6022 | 117U5018 | | | | 103N1010 | 103N2011 |
| NL10MF | 105G6155 | 103N0011 | 103N0018 | | | | | | 117U6022 | 117U5038 | | | | 103N1010 | 103N2011 |
| NL10MF | 105G6870 | 103N0011 | 103N0018 | | | | | | 117U6022 | 117U5018 | | | | 103N1010 | 103N2011 |
| NL10MF | 105G6885 | 103N0011 | 103N0018 | | | | | | 117U6022 | 117U5018 | | | | 103N1010 | 103N2011 |
| NL10MF | 105G6886 | 103N0011 | 103N0018 | | | | | | 117U6022 | 117U5018 | | | | 103N1010 | 103N2011 |
| NL10MF | 105G6196 | 103N0011 | 103N0018 | | | | | | 117U6022 | 117U5018 | | | | 103N1010 | 103N2011 |
| NLE12.6MF.2 | 105G6387 | | | | | | | 103N0050 | 117-7119 | 117U6005 | 117U5015 | | | 103N1010 | 103N2010 |
| NLE12.6MFT | 105G6388 | | | | | | | 103N0050 | 117-7119 | 117U6005 | 117U5015 | | | 103N1010 | 103N2010 |

Refrigerators = 1 | Freezers = 2 | Beverage coolers = 3 | Commercial freezers = 4 | Minibars = 5 | Ice cream cabinets = 6
 Water coolers = 7 | Heat pumps = 8 | Wine coolers = 9 | Display cabinets = 10 | Ice makers = 11

| ARI | | | | | | Power | Displacement | Voltage and frequencies [* dual frequency type with 50/60 Hz] | Compressor cooling cooling [refer data sheet] | Dimensions | | | | | | Application | |
|-----------------------------------|------|----------------------------------|------|----------------------------------|-----|-------|--------------|--|---|------------------|-----|------------------------------------|--------------|-----------------|-----------------|-------------|------------------------------|
| LBP rating point -10°F / 120°F | | MBP rating point 20°F / 120°F | | HBP rating point 45°F / 120°F | | | | | | Height [inch] | | Connectors location/I.D. [inch] | | | | | alt. connectors available |
| Cooling capacity [BTU/h] | EER | Cooling capacity [BTU/h] | EER | Cooling capacity [BTU/h] | EER | | | | | A | B | Suction C | Process D | Dis-charge E | Oil cooler F | | |
| 486 | 3.42 | 1203 | 5.29 | | | 1/7 | 0.37 | 187-254 V, 60 Hz * | S | 7.5 | 7.2 | 0.32 | 0.24 | 0.24 | X | 3 | |
| 486 | 3.42 | 1203 | 5.29 | | | 1/7 | 0.37 | 187-254 V, 60 Hz * | S | 7.5 | 7.2 | 0.32 | 0.24 | 0.24 | X | 3 | |
| 486 | 3.42 | 1203 | 5.29 | | | 1/7 | 0.37 | 187-254 V, 60 Hz * | S | 7.5 | 7.2 | 0.32 | 0.26 | 0.26 | X | 3 | |
| 486 | 3.42 | 1203 | 5.29 | | | 1/7 | 0.37 | 187-254 V, 60 Hz * | S | 7.5 | 7.2 | 0.32 | 0.24 | 0.24 | X | 3 | |
| 638 | 3.44 | 1471 | 5.14 | | | 1/5 | 0.44 | 187-254 V, 60 Hz * | F1 | 7.8 | 7.5 | 0.32 | 0.24 | 0.24 | X | 3 | |
| 638 | 3.44 | 1471 | 5.14 | | | 1/5 | 0.44 | 187-254 V, 60 Hz * | F1 | 7.8 | 7.5 | 0.38 | 0.26 | 0.26 | X | 3 | |
| 638 | 3.44 | 1471 | 5.14 | | | 1/5 | 0.44 | 187-254 V, 60 Hz * | F1 | 7.8 | 7.5 | 0.32 | 0.24 | 0.24 | X | 3 | |
| 638 | 3.44 | 1471 | 5.14 | | | 1/5 | 0.44 | 187-254 V, 60 Hz * | F1 | 7.8 | 7.5 | 0.32 | 0.24 | 0.24 | X | 3 | |
| 724 | 3.58 | 1710 | 5.27 | | | 1/4 | 0.51 | 187-254 V, 60 Hz * | F1 | 7.8 | 7.5 | 0.32 | 0.24 | 0.24 | X | 3 | |
| 724 | 3.58 | 1710 | 5.27 | | | 1/4 | 0.51 | 187-254 V, 60 Hz * | F1 | 7.8 | 7.5 | 0.32 | 0.24 | 0.24 | X | 3 | |
| 905 | 3.64 | 2059 | 5.30 | | | 3/10 | 0.62 | 187-254 V, 60 Hz * | F1 | 8.0 | 7.8 | 0.38 | 0.26 | 0.26 | X | 3 | |
| 905 | 3.64 | 2059 | 5.30 | | | 3/10 | 0.62 | 187-254 V, 60 Hz * | F1 | 8.0 | 7.8 | 0.32 | 0.24 | 0.24 | X | 3 | |
| 905 | 3.64 | 2059 | 5.30 | | | 3/10 | 0.62 | 187-254 V, 60 Hz * | F1 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 3 | |
| 905 | 3.64 | 2059 | 5.30 | | | 3/10 | 0.62 | 187-254 V, 60 Hz * | F1 | 8.0 | 7.8 | 0.32 | 0.24 | 0.24 | X | 3 | |
| 905 | 3.64 | 2059 | 5.30 | | | 3/10 | 0.62 | 187-254 V, 60 Hz * | F1 | 8.0 | 7.8 | 0.38 | 0.26 | 0.26 | X | 3 | |
| 905 | 3.64 | 2059 | 5.30 | | | 3/10 | 0.62 | 187-254 V, 60 Hz * | F1 | 8.0 | 7.8 | 0.38 | 0.26 | 0.26 | X | 3 | |
| 1216 | 4.41 | 2823 | 6.73 | | | 3/8 | 0.77 | 198-254 V, 60 Hz * | F2 | 8.0 | 7.8 | 0.32 | 0.24 | 0.24 | | 3 10 11 | |
| 1216 | 4.41 | 2823 | 6.73 | | | 3/8 | 0.77 | 198-254 V, 60 Hz * | F2 | 8.0 | 7.8 | 0.32 | 0.24 | 0.24 | | 3 10 11 | |



R134a • 220-240 V • 60 Hz • F-Series

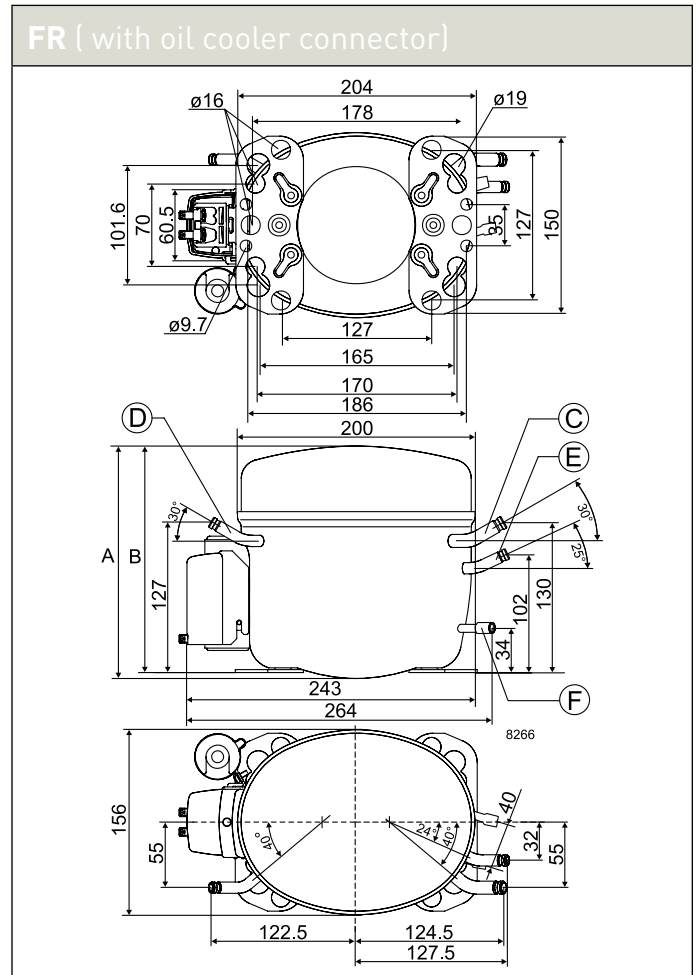
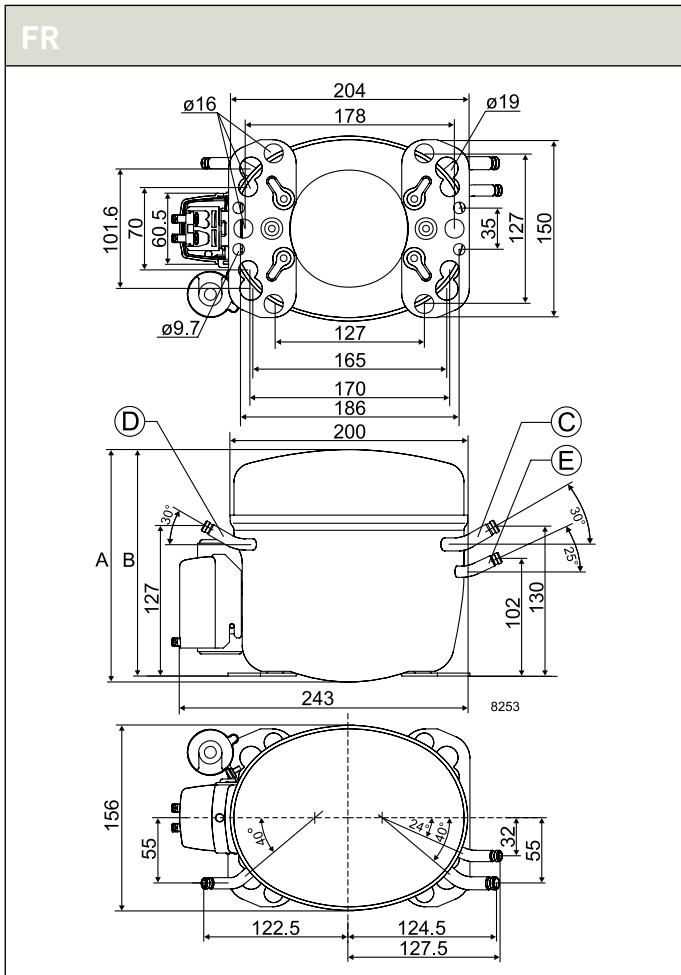
| Compressor | Code number | Application | ASHRAE Capacity [BTU/h] T _c =130°F, T _{liq} =90°F, T _{suc} =90°F Evaporating temperature [°F] | | | | | | ASHRAE | | | | | | ARI Capacity [BTU/h] T _c =120°F, T _{liq} =120°F, T _{suc} =40°F Evaporating temperature [°F] | | | | | | | | |
|------------|-------------|-------------|--|------|------|----|----|-----|----------------------------------|----------|---------|----------|----------------------------------|----------|--|---|----|------|------|------|------|------|--|
| | | | LBP rating point -10°F / 130°F | | | | | | MBP rating point 20°F / 130°F | | | | HBP rating point 45°F / 130°F | | | | | | | | | | |
| | | | Cooling capacity | | EER | | | | Cooling capacity | | EER | | Cooling capacity | | EER | | | | | | | | |
| | | | -31 | 5 | 23 | 32 | 50 | 59 | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | -31 | 5 | 23 | 32 | 50 | 59 | | | |
| FR6G | 103G6660 | L/M/HBP | 842 | 1458 | | | | 459 | 3.60 | 1199 | 5.58 | | | | | | | 699 | 1172 | | | | |
| FR7.5G | 103G6680 | L/M/HBP | 962 | 1625 | | | | 547 | 3.71 | 1340 | 5.38 | | | | | | | 782 | 1291 | | | | |
| FR7.5G | 103G6681 | L/M/HBP | 962 | 1625 | | | | 547 | 3.71 | 1340 | 5.38 | | | | | | | 782 | 1291 | | | | |
| FR7.5G | 103G6690 | L/M/HBP | 962 | 1625 | | | | 547 | 3.71 | 1340 | 5.38 | | | | | | | 782 | 1291 | | | | |
| FR8.5G | 103G6780 | L/M/HBP | 1113 | 1866 | | | | 661 | 3.79 | 1539 | 5.13 | | | | | | | 916 | 1499 | | | | |
| FR8.5G | 103G6790 | L/M/HBP | 1113 | 1866 | | | | 661 | 3.79 | 1539 | 5.13 | | | | | | | 916 | 1499 | | | | |
| FR10G | 103G6880 | L/M/HBP | 1235 | 2053 | | | | 731 | 3.57 | 1696 | 4.93 | | | | | | | 1005 | 1635 | | | | |
| FR10G | 103G6881 | L/M/HBP | 1235 | 2053 | | | | 731 | 3.57 | 1696 | 4.93 | | | | | | | 1005 | 1635 | | | | |
| FR10G | 103G6890 | L/M/HBP | 1235 | 2053 | | | | 731 | 3.57 | 1696 | 4.93 | | | | | | | 1005 | 1635 | | | | |
| FR7GH | 103G6683 | HBP | 952 | 1606 | 2047 | | | | | 1320 | 5.53 | 2537 | 7.71 | | | | | 783 | 1313 | 1660 | 2546 | 3097 | |
| FR7GH | 103G6692 | HBP | 952 | 1606 | 2047 | | | | | 1320 | 5.53 | 2537 | 7.71 | | | | | 783 | 1313 | 1660 | 2546 | 3097 | |

R134a • 220-240 V • 60 Hz • F-Series • Electrical Equipment

| Compressor | Code number | LST (RSIR & RSCR) - refer to data sheet for more info | | | | | | Run capacitor (RC) | | HST (CSIR & CSR) - * alt. cable lengths avail. | | | | LST/HST | |
|------------|-------------|---|-----------|---------------------------------------|-----------|-----------|--|--------------------|----------------|--|-------------------|----------------|-------------|----------|----------|
| | | PTC starting device | | PTC starting device with RC connector | | ePTC | optional or compulsory (refer to data sheet) | | Starting relay | Starting capacitor | Starting device * | Starting kit * | Cord relief | Cover | |
| | | Spades | | Spades | | Spades | Spades | | Spades | | Spades | | | | |
| | | 1/4 inch | 3/16 inch | 1/4 inch | 3/16 inch | 3/16 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 1/4 inch | 1/4 inch | | | |
| FR6G | 103G6660 | 103N0011 | 103N0018 | | | | | | | 117U6000 | 117U5015 | | | 103N1010 | 103N2010 |
| FR7.5G | 103G6680 | 103N0011 | 103N0018 | | | | | | | 117U6001 | 117U5015 | | | 103N1010 | 103N2010 |
| FR7.5G | 103G6681 | 103N0011 | 103N0018 | | | | | | | 117U6001 | 117U5015 | | | 103N1010 | 103N2010 |
| FR7.5G | 103G6690 | 103N0011 | 103N0018 | | | | | | | 117U6001 | 117U5015 | | | 103N1010 | 103N2010 |
| FR8.5G | 103G6780 | 103N0011 | 103N0018 | | | | | | | 117U6015 | 117U5015 | | | 103N1010 | 103N2010 |
| FR8.5G | 103G6790 | 103N0011 | 103N0018 | | | | | | | 117U6015 | 117U5015 | | | 103N1010 | 103N2010 |
| FR10G | 103G6880 | 103N0011 | 103N0018 | | | | | | | 117U6010 | 117U5015 | | | 103N1010 | 103N2010 |
| FR10G | 103G6881 | 103N0011 | 103N0018 | | | | | | | 117U6010 | 117U5015 | | | 103N1010 | 103N2010 |
| FR10G | 103G6890 | 103N0011 | 103N0018 | | | | | | | 117U6010 | 117U5015 | | | 103N1010 | 103N2010 |
| FR7GH | 103G6683 | | | | | | | | | 117U6016 | 117U5015 | | | 103N1010 | 103N2011 |
| FR7GH | 103G6692 | | | | | | | | | 117U6016 | 117U5015 | | | 103N1010 | 103N2011 |

Refrigerators = 1 | Freezers = 2 | Beverage coolers = 3 | Commercial freezers = 4 | Minibars = 5 | Ice cream cabinets = 6
 Water coolers = 7 | Heat pumps = 8 | Wine coolers = 9 | Display cabinets = 10 | Ice makers = 11

| ARI | | | | | | Power | Displacement | Voltage and frequencies [* dual frequency type with 50/60 Hz] | Compressor cooling cooling [refer-data sheet] | Dimensions | | | | | | | Application |
|-----------------------------------|------|----------------------------------|------|----------------------------------|------|-------|--------------|--|---|------------------|-----|------------------------------------|--------------|-----------------|-----------------|------------------------------|-------------|
| LBP rating point -10°F / 120°F | | MBP rating point 20°F / 120°F | | HBP rating point 45°F / 120°F | | | | | | Height [inch] | | Connectors location/I.D. [inch] | | | | | |
| Cooling capacity [BTU/h] | EER | Cooling capacity [BTU/h] | EER | Cooling capacity [BTU/h] | EER | | | | | A | B | Suction C | Process D | Dis-charge E | Oil cooler F | alt. connectors available | |
| 402 | 3.12 | 1083 | 5.21 | | | 1/8 | 0.38 | 198-254 V, 60 Hz * | F1 | 7.7 | 7.5 | 0.32 | 0.24 | 0.24 | | | 6 10 |
| 461 | 3.13 | 1196 | 5.03 | | | 1/7 | 0.42 | 198-254 V, 60 Hz * | F1 | 7.7 | 7.5 | 0.32 | 0.24 | 0.24 | | X | 4 6 10 |
| 461 | 3.13 | 1196 | 5.03 | | | 1/7 | 0.42 | 198-254 V, 60 Hz * | F1 | 7.7 | 7.5 | 0.32 | 0.26 | 0.26 | | X | 4 6 10 |
| 461 | 3.13 | 1196 | 5.03 | | | 1/7 | 0.42 | 198-254 V, 60 Hz * | F1 | 7.7 | 7.5 | 0.32 | 0.24 | 0.24 | 0.24 | X | 4 6 10 |
| 558 | 3.16 | 1389 | 4.77 | | | 1/6 | 0.49 | 198-254 V, 60 Hz * | F1 | 7.7 | 7.5 | 0.32 | 0.24 | 0.24 | | | 4 6 10 |
| 558 | 3.16 | 1389 | 4.77 | | | 1/6 | 0.49 | 198-254 V, 60 Hz * | F1 | 7.7 | 7.5 | 0.32 | 0.24 | 0.24 | 0.24 | X | 4 6 10 |
| 612 | 3.01 | 1517 | 4.63 | | | 1/5 | 0.55 | 198-254 V, 60 Hz * | F1 | 7.7 | 7.5 | 0.32 | 0.24 | 0.24 | | X | 4 6 10 |
| 612 | 3.01 | 1517 | 4.63 | | | 1/5 | 0.55 | 198-254 V, 60 Hz * | F1 | 7.7 | 7.5 | 0.32 | 0.26 | 0.26 | | X | 4 6 10 |
| 612 | 3.01 | 1517 | 4.63 | | | 1/5 | 0.55 | 198-254 V, 60 Hz * | F1 | 7.7 | 7.5 | 0.32 | 0.24 | 0.24 | 0.24 | X | 4 6 10 |
| | | 1210 | 5.23 | 2272 | 7.39 | 1/4 | 0.42 | 198-254 V, 60 Hz * | F2 | 7.7 | 7.5 | 0.32 | 0.24 | 0.32 | | | 8 |
| | | 1210 | 5.23 | 2272 | 7.39 | 1/4 | 0.42 | 198-254 V, 60 Hz * | F1 | 7.7 | 7.5 | 0.32 | 0.24 | 0.32 | 0.32 | X | 8 |



R134a • 220-240 V • 60 Hz • S-Series

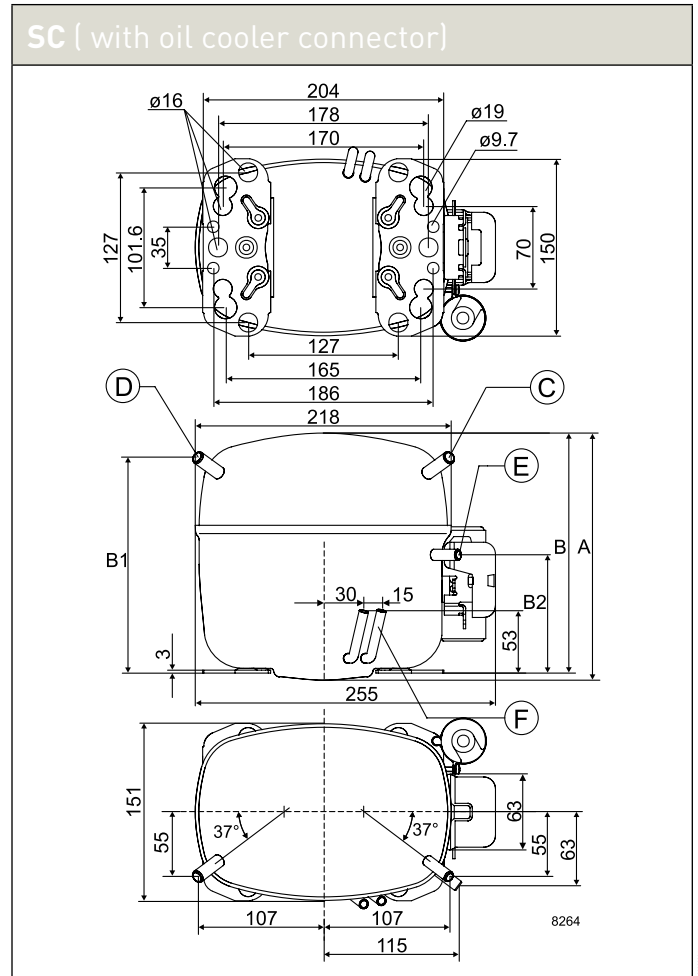
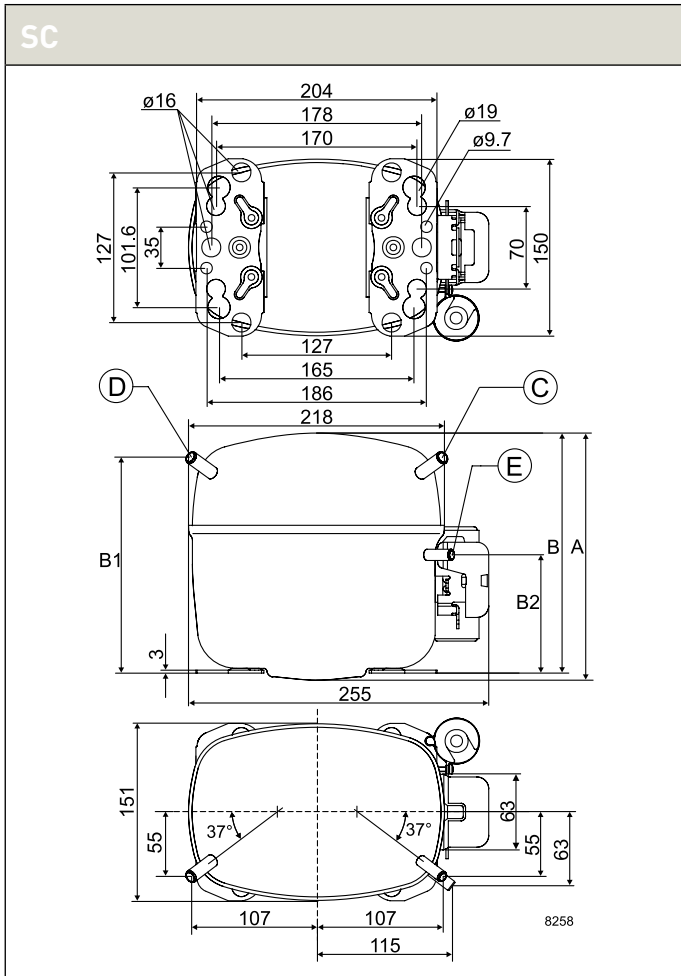
| Compressor | Code number | Application | ASHRAE Capacity [BTU/h] T _c =130°F, T _{liq} =90°F, T _{suc} =90°F Evaporating temperature [°F] | | | | | | ASHRAE | | | | | | ARI Capacity [BTU/h] T _c =120°F, T _{liq} =120°F, T _{suc} =40°F Evaporating temperature [°F] | | | | | | | |
|------------|-------------|-------------|--|------|------|------|----|------|----------------------------------|----------|---------|----------|----------------------------------|----------|--|------|------|----|----|----|--|--|
| | | | LBP rating point -10°F / 130°F | | | | | | MBP rating point 20°F / 130°F | | | | HBP rating point 45°F / 130°F | | | | | | | | | |
| | | | Cooling capacity | | EER | | | | Cooling capacity | | EER | | Cooling capacity | | EER | | | | | | | |
| | | | -31 | 5 | 23 | 32 | 50 | 59 | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | -31 | 5 | 23 | 32 | 50 | 59 | | |
| SC10G | 104G8000 | L/M/HBP | 119 | 1331 | 2408 | | | 670 | 2.95 | 1972 | 5.43 | | | 144 | 1134 | 1960 | | | | | | |
| SC12G | 104G8224 | L/M/HBP | 318 | 1722 | 2987 | | | 983 | 3.50 | 2451 | 5.47 | | | 310 | 1454 | 2446 | | | | | | |
| SC12G | 104G8240 | L/M/HBP | 318 | 1722 | 2987 | | | 983 | 3.50 | 2451 | 5.47 | | | 310 | 1454 | 2446 | | | | | | |
| SC12G | 104G8243 | L/M/HBP | 318 | 1722 | 2987 | | | 983 | 3.50 | 2451 | 5.47 | | | 310 | 1454 | 2446 | | | | | | |
| SC12G | 104G8244 | L/M/HBP | 318 | 1722 | 2987 | | | 983 | 3.50 | 2451 | 5.47 | | | 310 | 1454 | 2446 | | | | | | |
| SC12G | 104G8245 | MBP | | 1573 | 2953 | 3852 | | | | 2401 | 5.65 | 4860 | 8.38 | 1342 | 2437 | 3136 | 4896 | | | | | |
| SC12G | 104G8246 | L/M/HBP | 318 | 1722 | 2987 | | | 983 | 3.50 | 2451 | 5.47 | | | 310 | 1454 | 2446 | | | | | | |
| SC12G | 104G8250 | L/M/HBP | 318 | 1722 | 2987 | | | 983 | 3.50 | 2451 | 5.47 | | | 310 | 1454 | 2446 | | | | | | |
| SC12G | 104G8253 | L/M/HBP | 318 | 1722 | 2987 | | | 983 | 3.50 | 2451 | 5.47 | | | 310 | 1454 | 2446 | | | | | | |
| SC15G | 104G8520 | L/M/HBP | | 2182 | 3652 | | | 1263 | 3.64 | 3020 | 5.58 | | | 1829 | 2956 | | | | | | | |
| SC15G | 104G8525 | L/M/HBP | | 2182 | 3652 | | | 1263 | 3.64 | 3020 | 5.58 | | | 1829 | 2956 | | | | | | | |
| SC15G | 104G8526 | MBP | | 1988 | 3534 | 4449 | | | | 2907 | 5.69 | 5348 | 8.11 | 1684 | 2873 | 3583 | 5304 | | | | | |
| SC15G | 104G8529 | L/M/HBP | | 2182 | 3652 | | | 1263 | 3.64 | 3020 | 5.58 | | | 1829 | 2956 | | | | | | | |
| SC18G | 104G8820 | L/M/HBP | | 2632 | 4316 | | | 1596 | 3.86 | 3572 | 5.41 | | | 2117 | 3430 | | | | | | | |
| SC18G | 104G8822 | L/M/HBP | | 2632 | 4316 | | | 1596 | 3.86 | 3572 | 5.41 | | | 2117 | 3430 | | | | | | | |
| SC18G | 104G8823 | MBP | | 2426 | 4049 | 5122 | | | | 3336 | 6.03 | 6282 | 8.57 | 2025 | 3320 | 4156 | 6273 | | | | | |
| SC18G | 104G8824 | L/M/HBP | | 2632 | 4316 | | | 1596 | 3.86 | 3572 | 5.41 | | | 2117 | 3430 | | | | | | | |
| SC18G | 104G8825 | L/M/HBP | | 2632 | 4316 | | | 1596 | 3.86 | 3572 | 5.41 | | | 2117 | 3430 | | | | | | | |
| SC18G | 104G8830 | L/M/HBP | | 2632 | 4316 | | | 1596 | 3.86 | 3572 | 5.41 | | | 2117 | 3430 | | | | | | | |
| SC18G | 104G8838 | L/M/HBP | | 2632 | 4316 | | | 1596 | 3.86 | 3572 | 5.41 | | | 2117 | 3430 | | | | | | | |
| SC21G | 104G8124 | L/M/HBP | | 2780 | 4845 | | | 1516 | 3.67 | 3980 | 5.69 | | | 2336 | 3876 | | | | | | | |
| SC21G | 104G8140 | L/M/HBP | | 2780 | 4845 | | | 1516 | 3.67 | 3980 | 5.69 | | | 2336 | 3876 | | | | | | | |
| SC21G | 104G8143 | L/M/HBP | | 2780 | 4845 | | | 1516 | 3.67 | 3980 | 5.69 | | | 2336 | 3876 | | | | | | | |
| SC21G | 104G8145 | L/M/HBP | | 2780 | 4845 | | | 1516 | 3.67 | 3980 | 5.69 | | | 2336 | 3876 | | | | | | | |

R134a • 220-240 V • 60 Hz • S-Series • Electrical Equipment

| Compressor | Code number | LST (RSIR & RSCR) - refer to data sheet for more info | | | | | | Run capacitor (RC) | | HST (CSIR & CSR) - * att. cable lengths avail. | | | | LST/HST | |
|------------|-------------|---|-----------|----------|---------------------------------------|-----------|----------|--------------------|--|--|--------------------|-------------------|----------------|-------------|----------|
| | | PTC starting device | | | PTC starting device with RC connector | | | ePTC | optional or compulsory (refer to data sheet) | Starting relay | Starting capacitor | Starting device * | Starting kit * | Cord relief | Cover |
| | | Spades | | Spades | | Spades | Spades | | Spades | | Spades | | | | |
| | | 1/4 inch | 3/16 inch | 1/4 inch | 3/16 inch | 3/16 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 1/4 inch | 1/4 inch | | | |
| SC10G | 104G8000 | 103N0011 | | | | | | | | 117U6002 | 117U5017 | | | 103N1004 | 103N2009 |
| SC12G | 104G8224 | 103N0011 | | | | | | | | 117U6003 | 117U5017 | | | 103N1004 | 103N2009 |
| SC12G | 104G8240 | 103N0011 | | | | | | | | 117U6003 | 117U5017 | | | 103N1004 | 103N2009 |
| SC12G | 104G8243 | 103N0011 | | | | | | | | 117U6003 | 117U5017 | | | 103N1004 | 103N2009 |
| SC12G | 104G8244 | 103N0011 | | | | | | | | 117U6003 | 117U5017 | | | 103N1004 | 103N2008 |
| SC12G | 104G8245 | | | | | | | | | 117U6011 | 117U5017 | | | 103N1004 | 103N2008 |
| SC12G | 104G8246 | 103N0011 | | | | | | | | 117U6003 | 117U5017 | | | 103N1004 | 103N2009 |
| SC12G | 104G8250 | 103N0011 | | | | | | | | 117U6003 | 117U5017 | | | 103N1004 | 103N2009 |
| SC12G | 104G8253 | 103N0011 | | | | | | | | 117U6003 | 117U5017 | | | 103N1004 | 103N2009 |
| SC15G | 104G8520 | | | | | | | | | 117U6005 | 117U5017 | | | 103N1004 | 103N2009 |
| SC15G | 104G8525 | | | | | | | | | 117U6005 | 117U5017 | | | 103N1004 | 103N2009 |
| SC15G | 104G8526 | | | | | | | | | 117U6011 | 117U5017 | | | 103N1004 | 103N2008 |
| SC15G | 104G8529 | | | | | | | | | 117U6005 | 117U5017 | | | 103N1004 | 103N2009 |
| SC18G | 104G8820 | | | | | | | | | 117U6019 | 117U5017 | | | 103N1004 | 103N2009 |
| SC18G | 104G8822 | | | | | | | | | 117U6019 | 117U5017 | | | 103N1004 | 103N2009 |
| SC18G | 104G8823 | | | | | | | | | | 117U5373 | 117-7039 | | 103N1004 | 103N2008 |
| SC18G | 104G8824 | | | | | | | | | 117U6019 | 117U5017 | | | 103N1004 | 103N2009 |
| SC18G | 104G8825 | | | | | | | | | 117U6019 | 117U5017 | | | 103N1004 | 103N2008 |
| SC18G | 104G8830 | | | | | | | | | 117U6019 | 117U5017 | | | 103N1004 | 103N2009 |
| SC18G | 104G8838 | | | | | | | | | 117U6019 | 117U5017 | | | 103N1004 | 103N2009 |
| SC21G | 104G8124 | | | | | | | | | | 117U5373 | 117-7029 | | 103N1004 | 103N2009 |
| SC21G | 104G8140 | | | | | | | | | | 117U5373 | 117-7029 | | 103N1004 | 103N2009 |
| SC21G | 104G8143 | | | | | | | | 117-7121 | 117-7427 | 117U5373 | 117-7039 | | 103N1004 | 103N2008 |
| SC21G | 104G8145 | | | | | | | | | | 117U5373 | 117-7029 | | 103N1004 | 103N2009 |

Refrigerators = 1 | Freezers = 2 | Beverage coolers = 3 | Commercial freezers = 4 | Minibars = 5 | Ice cream cabinets = 6
 Water coolers = 7 | Heat pumps = 8 | Wine coolers = 9 | Display cabinets = 10 | Ice makers = 11

| ARI | | | | | | Power | Displacement | Voltage and frequencies [* dual frequency type with 50/60 Hz] | Compressor cooling cooling (refer data sheet) | Dimensions | | | | | | Application | |
|-----------------------------------|------|----------------------------------|------|----------------------------------|------|-------|--------------|--|---|---------------|-----|---------------------------------|---------|------------|------------|-------------|---------------------------|
| LBP rating point -10°F / 120°F | | MBP rating point 20°F / 120°F | | HBP rating point 45°F / 120°F | | | | | | Height [inch] | | Connectors location/I.D. [inch] | | | | | alt. connectors available |
| Cooling capacity [BTU/h] | EER | Cooling capacity [BTU/h] | EER | Cooling capacity [BTU/h] | EER | | | | | A | B | Suction | Process | Dis-charge | Oil cooler | | |
| 610 | 2.70 | 1808 | 5.19 | | | 1/5 | 0.63 | 198-254 V, 60 Hz * | F2 | 7.8 | 7.6 | 0.32 | 0.24 | 0.24 | | | 3 |
| 860 | 3.07 | 2258 | 5.19 | | | 1/4 | 0.79 | 198-254 V, 60 Hz * | F2 | 8.2 | 8.0 | 0.40 | 0.26 | 0.26 | | X | 3 |
| 860 | 3.07 | 2258 | 5.19 | | | 1/4 | 0.79 | 198-254 V, 60 Hz * | F2 | 8.2 | 8.0 | 0.32 | 0.24 | 0.24 | | X | 3 |
| 860 | 3.07 | 2258 | 5.19 | | | 1/4 | 0.79 | 198-254 V, 60 Hz * | F2 | 8.2 | 8.0 | 0.40 | 0.26 | 0.26 | | X | 3 |
| 860 | 3.07 | 2258 | 5.19 | | | 1/4 | 0.79 | 198-254 V, 60 Hz * | F2 | 8.2 | 8.0 | 0.32 | 0.24 | 0.24 | | X | 3 |
| | | 2228 | 5.38 | 4354 | 8.00 | 1/2 | 0.79 | 187-254 V, 60 Hz | F2 | 8.2 | 8.0 | 0.40 | 0.26 | 0.26 | | X | 3 |
| 860 | 3.07 | 2258 | 5.19 | | | 1/4 | 0.79 | 198-254 V, 60 Hz * | F2 | 8.2 | 8.0 | 0.40 | 0.24 | 0.24 | | X | 3 |
| 860 | 3.07 | 2258 | 5.19 | | | 1/4 | 0.79 | 198-254 V, 60 Hz * | F1 | 8.2 | 8.0 | 0.32 | 0.24 | 0.24 | 0.24 | X | 3 |
| 860 | 3.07 | 2258 | 5.19 | | | 1/4 | 0.79 | 198-254 V, 60 Hz * | F2 | 8.2 | 8.0 | 0.32 | 0.26 | 0.26 | | X | 3 |
| 1100 | 3.35 | 2750 | 5.36 | | | 1/3 | 0.93 | 198-254 V, 60 Hz * | F2 | 8.2 | 8.0 | 0.40 | 0.24 | 0.24 | | X | 3 |
| 1100 | 3.35 | 2750 | 5.36 | | | 1/3 | 0.93 | 198-254 V, 60 Hz * | F2 | 8.2 | 8.0 | 0.40 | 0.26 | 0.26 | | X | 3 |
| | | 2655 | 5.42 | 4780 | 7.57 | 1/2 | 0.93 | 187-254 V, 60 Hz | F2 | 8.2 | 8.0 | 0.40 | 0.26 | 0.26 | | X | 3 |
| 1100 | 3.35 | 2750 | 5.36 | | | 1/3 | 0.93 | 198-254 V, 60 Hz * | F2 | 8.2 | 8.0 | 0.40 | | 0.24 | | X | 3 |
| 1291 | 3.12 | 3184 | 5.03 | | | 2/5 | 1.08 | 198-254 V, 60 Hz * | F2 | 8.6 | 8.4 | 0.40 | 0.24 | 0.24 | | X | 3 |
| 1291 | 3.12 | 3184 | 5.03 | | | 2/5 | 1.08 | 198-254 V, 60 Hz * | F2 | 8.6 | 8.4 | 0.40 | 0.26 | 0.26 | | X | 3 |
| | | 3071 | 5.67 | 5620 | 7.99 | 3/5 | 1.08 | 187-254 V, 60 Hz | F2 | 8.6 | 8.4 | 0.40 | 0.26 | 0.26 | | X | 3 |
| 1291 | 3.12 | 3184 | 5.03 | | | 2/5 | 1.08 | 198-254 V, 60 Hz * | F2 | 8.6 | 8.4 | 0.40 | 0.26 | 0.26 | | X | 3 |
| 1291 | 3.12 | 3184 | 5.03 | | | 2/5 | 1.08 | 198-254 V, 60 Hz * | F2 | 8.6 | 8.4 | 0.40 | 0.24 | 0.24 | | X | 3 |
| 1291 | 3.12 | 3184 | 5.03 | | | 2/5 | 1.08 | 198-254 V, 60 Hz * | F2 | 8.6 | 8.4 | 0.40 | 0.24 | 0.24 | 0.24 | X | 3 |
| 1291 | 3.12 | 3184 | 5.03 | | | 2/5 | 1.08 | 198-254 V, 60 Hz * | F2 | 8.6 | 8.4 | 0.40 | 0.24 | 0.24 | | X | 3 |
| 1381 | 3.19 | 3586 | 5.23 | | | 2/5 | 1.28 | 198-254 V, 60 Hz * | F2 | 8.6 | 8.4 | 0.40 | 0.26 | 0.26 | | X | 3 |
| 1381 | 3.19 | 3586 | 5.23 | | | 2/5 | 1.28 | 198-254 V, 60 Hz * | F2 | 8.6 | 8.4 | 0.40 | 0.24 | 0.24 | | X | 3 |
| 1381 | 3.19 | 3586 | 5.23 | | | 2/5 | 1.28 | 198-254 V, 60 Hz | F2 | 8.6 | 8.4 | 0.40 | 0.24 | 0.24 | | X | 3 |
| 1381 | 3.19 | 3586 | 5.23 | | | 2/5 | 1.28 | 198-254 V, 60 Hz * | F2 | 8.6 | 8.4 | 0.31 | | 0.24 | | X | 3 |



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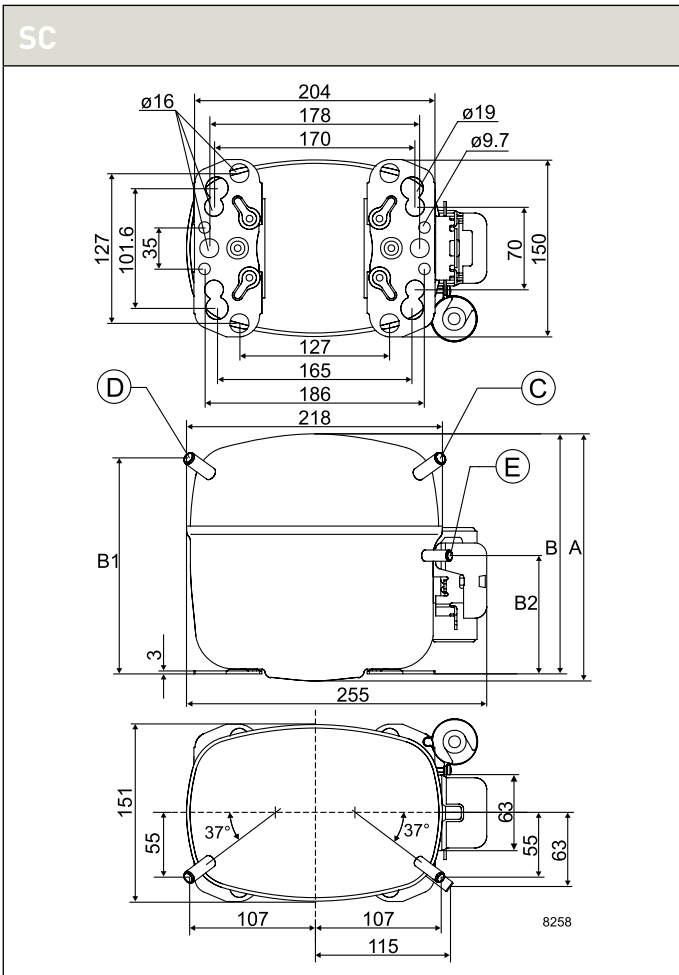
| Compressor | Code number | Application | ASHRAE Capacity [BTU/h] T _c =130°F, T _{liq} =90°F, T _{suc} =90°F Evaporating temperature [°F] | | | | | | ASHRAE | | | | | | ARI Capacity [BTU/h] T _c =120°F, T _{liq} =120°F, T _{suc} =40°F Evaporating temperature [°F] | | | | | | | |
|------------|-------------|-------------|--|------|------|------|----|------|----------------------------------|----------|---------|----------|----------------------------------|----------|--|------|------|------|------|----|--|--|
| | | | LBP rating point -10°F / 130°F | | | | | | MBP rating point 20°F / 130°F | | | | HBP rating point 45°F / 130°F | | | | | | | | | |
| | | | Cooling capacity | | EER | | | | Cooling capacity | | EER | | Cooling capacity | | EER | | | | | | | |
| | | | -31 | 5 | 23 | 32 | 50 | 59 | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | -31 | 5 | 23 | 32 | 50 | 59 | | |
| SC12FT | 104G8205 | LBP | 531 | 2020 | 3229 | | | 1276 | 4.04 | 2680 | 5.44 | | | 482 | 1677 | 2662 | | | | | | |
| SC15FT | 104G8505 | LBP | 655 | 2417 | 3832 | | | 1542 | 4.09 | 3185 | 5.54 | | | 592 | 2002 | 3158 | | | | | | |
| SC15FT | 104G8506 | LBP | 655 | 2417 | 3832 | | | 1542 | 4.09 | 3185 | 5.54 | | | 592 | 2002 | 3158 | | | | | | |
| SC18FTX | 104G8805 | LBP | 796 | 2857 | 4544 | | | 1823 | 4.11 | 3774 | 5.69 | | | 714 | 2367 | 3741 | | | | | | |
| SC18FTX | 104G8806 | LBP | 796 | 2857 | 4544 | | | 1823 | 4.11 | 3774 | 5.69 | | | 714 | 2367 | 3741 | | | | | | |
| SC21FTX | 104G8106 | LBP | 1017 | 3379 | 5337 | | | 2184 | 4.39 | 4437 | 5.77 | | | 859 | 2733 | 4258 | | | | | | |
| SC10GH | 104G8041 | HBP | | 1361 | 2305 | 2909 | | | | 1899 | 5.08 | 3544 | 6.89 | | 1201 | 1941 | 2418 | 3626 | 4373 | | | |
| SC12GH | 104G8261 | HBP | | 1573 | 2882 | 3734 | | | | 2350 | 5.52 | 4680 | 8.13 | | 1333 | 2371 | 3033 | 4701 | 5730 | | | |
| SC15GH | 104G8561 | HBP | | 1792 | 3286 | 4292 | | | | 2673 | 5.70 | 5449 | 8.17 | | 1467 | 2684 | 3479 | 5506 | 6764 | | | |
| SC15GH | 104G8573 | HBP | | 1792 | 3286 | 4292 | | | | 2673 | 5.70 | 5449 | 8.17 | | 1467 | 2684 | 3479 | 5506 | 6764 | | | |
| SC18GH | 104G8861 | HBP | | 2426 | 4049 | 5122 | | | | 3336 | 6.03 | 6282 | 8.57 | | 2025 | 3320 | 4156 | 6273 | 7585 | | | |
| SC18GH | 104G9851 | HBP | | 2426 | 4049 | 5122 | | | | 3336 | 6.03 | 6282 | 8.57 | | 2025 | 3320 | 4156 | 6273 | 7585 | | | |
| SC18MFX | 104G8804 | MBP | | 2822 | 4513 | 5598 | | | | 3744 | 5.96 | 6697 | 8.09 | | 2283 | 3610 | 4449 | 6543 | | | | |

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| Compressor | Code number | LST (RSIR & RSCR) - refer to data sheet for more info | | | | | Run capacitor (RC) | | HST (CSIR & CSR) - * alt. cable lengths avail. | | | | LST/HST | | |
|------------|-------------|---|-----------|---------------------------------------|-----------|-----------|--|----------------|--|-------------------|----------------|-------------|---------|--|--|
| | | PTC starting device | | PTC starting device with RC connector | | ePTC | optional or compulsory (refer to data sheet) | Starting relay | Starting capacitor | Starting device * | Starting kit * | Cord relief | Cover | | |
| | | Spades | | Spades | | Spades | Spades | Spades | | Spades | | | | | |
| | | 1/4 inch | 3/16 inch | 1/4 inch | 3/16 inch | 3/16 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 1/4 inch | 1/4 inch | | | |
| SC12FT | 104G8205 | | | | | | | | | | | | | | |
| SC15FT | 104G8505 | | | | | | | | | | | | | | |
| SC15FT | 104G8506 | | | | | | | | | | | | | | |
| SC18FTX | 104G8805 | | | | | | | | | | | | | | |
| SC18FTX | 104G8806 | | | | | | | | | | | | | | |
| SC21FTX | 104G8106 | | | | | | | | | | | | | | |
| SC10GH | 104G8041 | | | | | | | | | | | | | | |
| SC12GH | 104G8261 | | | | | | | | | | | | | | |
| SC15GH | 104G8561 | | | | | | | | | | | | | | |
| SC15GH | 104G8573 | | | | | | | | | | | | | | |
| SC18GH | 104G8861 | | | | | | | | | | | | | | |
| SC18GH | 104G9851 | | | | | | | | | | | | | | |
| SC18MFX | 104G8804 | | | | | | | | | | | | | | |

Refrigerators = 1 | Freezers = 2 | Beverage coolers = 3 | Commercial freezers = 4 | Minibars = 5 | Ice cream cabinets = 6
 Water coolers = 7 | Heat pumps = 8 | Wine coolers = 9 | Display cabinets = 10 | Ice makers = 11

| ARI | | | | | | Power | Displacement | Voltage and frequencies [* dual frequency type with 50/60 Hz] | Compressor cooling cooling [refer-data sheet] | Dimensions | | | | | | | Application |
|-----------------------------------|----------|----------------------------------|----------|----------------------------------|----------|-------|--------------|--|---|------------------|------------------------------------|------|---------|---------|------------|------------------------------|-------------|
| LBP rating point -10°F / 120°F | | MBP rating point 20°F / 120°F | | HBP rating point 45°F / 120°F | | | | | | Height [inch] | Connectors location/I.D. [inch] | | | | | alt. connectors available | |
| Cooling capacity | EER | Cooling capacity | EER | Cooling capacity | EER | | | | | | A | B | Suction | Process | Dis-charge | | |
| [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | [HP] | [cu. inch] | | | | | | | | | | |
| 1072 | 3.37 | 2476 | 5.15 | | | 1/3 | 0.79 | 198-254 V, 60 Hz * | F1 | 8.2 | 8.0 | 0.32 | 0.24 | 0.24 | | 4 6 10 | |
| 1290 | 3.43 | 2940 | 5.26 | | | 2/5 | 0.93 | 198-254 V, 60 Hz * | F2 | 8.2 | 8.0 | 0.40 | 0.24 | 0.24 | X | 4 10 | |
| 1290 | 3.43 | 2940 | 5.26 | | | 2/5 | 0.93 | 198-254 V, 60 Hz * | F2 | 8.2 | 8.0 | 0.40 | 0.26 | 0.26 | X | 4 10 | |
| 1525 | 3.43 | 3481 | 5.38 | | | 1/2 | 1.08 | 198-254 V, 60 Hz * | F2 | 8.6 | 8.4 | 0.40 | 0.24 | 0.24 | X | 4 10 | |
| 1525 | 3.43 | 3481 | 5.38 | | | 1/2 | 1.08 | 198-254 V, 60 Hz * | F2 | 8.6 | 8.4 | 0.40 | 0.26 | 0.26 | X | 4 10 | |
| 1788 | 3.66 | 3971 | 5.30 | | | 3/5 | 1.28 | 187-254 V, 60 Hz | F2 | 8.6 | 8.4 | 0.40 | 0.24 | 0.24 | | 4 10 | |
| | | 1798 | 4.90 | 3253 | 6.78 | 3/10 | 0.63 | 198-254 V, 60 Hz * | F2 | 8.2 | 8.0 | 0.40 | 0.24 | 0.32 | | 8 | |
| | | 2173 | 5.24 | 4187 | 7.73 | 2/5 | 0.79 | 198-254 V, 60 Hz * | F2 | 8.2 | 8.0 | 0.40 | 0.24 | 0.32 | | 8 | |
| | | 2448 | 5.35 | 4879 | 7.75 | 1/2 | 0.93 | 198-254 V, 60 Hz * | F2 | 8.2 | 8.0 | 0.40 | 0.24 | 0.32 | X | 8 | |
| | | 2448 | 5.35 | 4879 | 7.75 | 1/2 | 0.93 | 198-254 V, 60 Hz * | F2 | 8.2 | 8.0 | 0.40 | 0.24 | 0.32 | X | 8 | |
| | | 3071 | 5.67 | 5620 | 7.99 | 3/5 | 1.08 | 198-254 V, 60 Hz * | F2 | 8.6 | 8.4 | 0.40 | 0.24 | 0.32 | | 8 | |
| | | 3071 | 5.67 | 5620 | 7.99 | 3/5 | 1.08 | 198-254 V, 60 Hz * | F2 | 8.6 | 8.4 | 0.40 | 0.24 | 0.32 | | 8 | |
| | | 3358 | 5.52 | 5900 | 7.45 | 3/5 | 1.08 | 187-254 V, 60 Hz * | F2 | 8.6 | 8.4 | 0.40 | 0.24 | 0.24 | | 3 10 11 | |



WITH MORE THAN 60 YEARS OF EXPERIENCE IN COMPRESSOR TECHNOLOGY AND HIGHLY DEDICATED EMPLOYEES, OUR FOCUS IS ON DEVELOPING AND

APPLYING ADVANCED COMPRESSOR TECHNOLOGIES TO ACHIEVE STANDARD SETTING PERFORMANCE FOR LEADING PRODUCTS AND BUSINESSES AROUND THE WORLD.

R600a

208-230 V | 60 Hz
220-240 V | 60 Hz



| | |
|----------------------|-------|
| N-Series..... | 44-45 |
| KAPPA-Tropical | 46-47 |
| DELTA..... | 48-49 |

Chemical formula

C₄H₁₀

Typelabel

Typelabel stripe colour: Red
Typelabel colour: Yellow

Applications

- LBP:** Low Back Pressure
- HBP:** High Back Pressure
- MBP:** Medium Back Pressure

Motor types

- RSIR:** Resistant Start Induction Run
- RSCR:** Resistant Start Capacitor Run
- CSIR:** Capacitor Start Induction Run
- CSR:** Capacitor Start Run

Compressor cooling

- S = Static cooling normally sufficient
- O = Oil cooling
- F₁ = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
- F₂ = Fan cooling 3.0 m/s necessary

Starting devices

LST: Low Starting Torque

LST is used with capillary tube control and pressure equalizing. (Pressure equalizing may exceed 10 minutes). The PTC starting device requires 5 minutes cooling before each start.

To fulfil the requirements of EN 60355-2-34 the protection screen 103N0476 must be applied to the PTC starting device.

HST: High Starting Torque

HST consisting of relay and starting capacitor is used for expansion valve control or for capillary tube control without pressure equalizing.

ePTC: Electronically controlled PTC

- Compressor restart possible after a few seconds
- Operational wattage loss reduced by 2 watt
- PTC protection screen not needed (surface temp. < 179.6 °F)
- Temperature resistant up to min. +140 °F

Test conditons

Electrical equipment being used is listed in our data sheets

1 Watt = 0.86 kcal/h
1 Watt = 3.41 Btu/h





R600a • 220-240 V • 60 Hz • N-Series

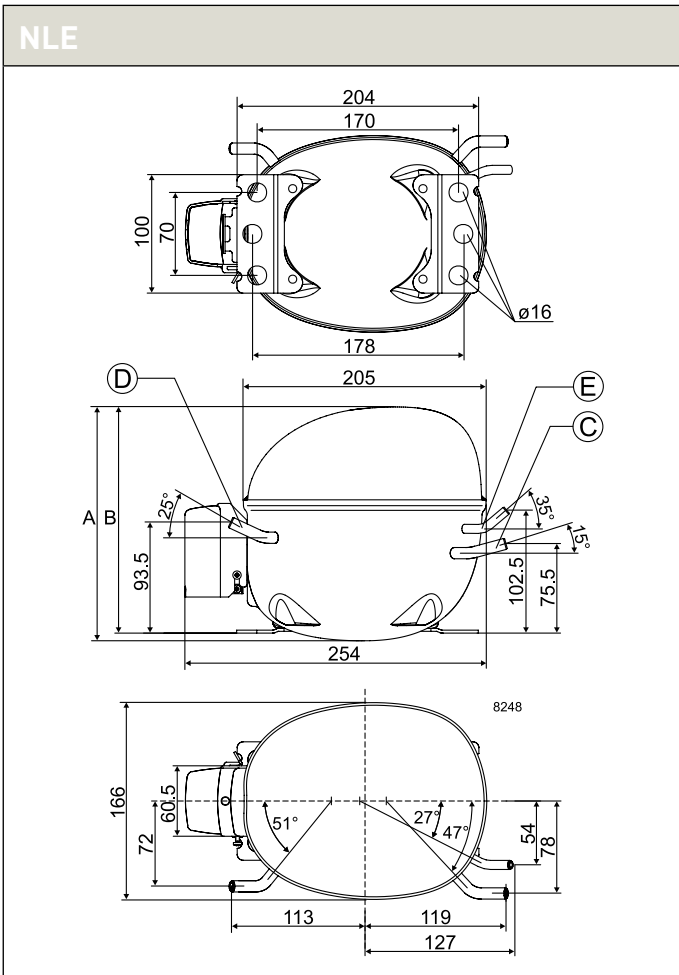
| Compressor | Code number | Application | ASHRAE Capacity [BTU/h] T _c =130°F, T _{liq} =90°F, T _{suc} =90°F Evaporating temperature [°F] | | | | | | ASHRAE | | | | | | ARI Capacity [BTU/h] T _c =120°F, T _{liq} =120°F, T _{suc} =40°F Evaporating temperature [°F] | | | | | | | | | |
|------------|-------------|-------------|--|-----|----|----|----|----|----------------------------------|-----------------|----------------------------------|-----------------|-----------------------------|-----------------|--|---|----|----|-----|-----|--|--|--|--|
| | | | LBP rating point -10°F / 130°F | | | | | | MBP rating point 20°F / 130°F | | HBP rating point 45°F / 130°F | | | | | | | | | | | | | |
| | | | -31 | 5 | 23 | 32 | 50 | 59 | Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | -31 | 5 | 23 | 32 | 50 | 59 | | | | |
| NLE9KTK | 105H6071 | LBP | 262 | 801 | | | | | 519 | 4.41 | | | | | | | | | 212 | 653 | | | | |
| NLE9KTK | 105H6848 | LBP | 262 | 801 | | | | | 519 | 4.41 | | | | | | | | | 212 | 653 | | | | |
| NLE11KTK | 105H6948 | LBP | 349 | 992 | | | | | 662 | 4.39 | | | | | | | | | 280 | 797 | | | | |

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| Compressor | Code number | LST (RSIR & RSCR) - refer to data sheet for more info | | | | | Run capacitor (RC) | | HST (CSIR & CSR) - * alt. cable lengths avail. | | | | LST/HST | |
|------------|-------------|---|-----------|---------------------------------------|-----------|-----------|--|-----------|--|--------------------|-------------------|----------------|-------------|----------|
| | | PTC starting device | | PTC starting device with RC connector | | ePTC | optional or compulsory (refer to data sheet) | | Starting relay | Starting capacitor | Starting device * | Starting kit * | Cord relief | Cover |
| | | Spades | | Spades | | Spades | Spades | | Spades | | Spades | | | |
| | | 1/4 inch | 3/16 inch | 1/4 inch | 3/16 inch | 3/16 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 1/4 inch | 1/4 inch | | |
| NLE9KTK | 105H6071 | 103N0011 | 103N0018 | 103N0016 | 103N0021 | | 117-7117 | 117-7119 | | | | | 103N1010 | 103N2010 |
| NLE9KTK | 105H6848 | 103N0011 | 103N0018 | 103N0016 | 103N0021 | | 117-7117 | 117-7119 | | | | | 103N1010 | 103N2010 |
| NLE11KTK | 105H6948 | 103N0011 | 103N0018 | 103N0016 | 103N0021 | | 117-7117 | 117-7119 | | | | | 103N1010 | 103N2010 |

Refrigerators = 1 | Freezers = 2 | Beverage coolers = 3 | Commercial freezers = 4 | Minibars = 5 | Ice cream cabinets = 6
 Water coolers = 7 | Heat pumps = 8 | Wine coolers = 9 | Display cabinets = 10 | Ice makers = 11

| ARI | | | | | | Power | Displacement | Voltage and frequencies [* dual frequency type with 50/60 Hz] | Compressor cooling [refer-data sheet] | Dimensions | | | | | | alt. connectors available | Application |
|-----------------------------------|-----------------|----------------------------------|-----------------|----------------------------------|-----------------|-------|--------------|--|--|---------------|-----|---------------------------------|--------------|-----------------|-----------------|---------------------------|-------------|
| LBP rating point -10°F / 120°F | | MBP rating point 20°F / 120°F | | HBP rating point 45°F / 120°F | | | | | | Height [inch] | | Connectors location/I.D. [inch] | | | | | |
| Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | | | | | A | B | Suction C | Process D | Dis-charge E | Oil cooler F | | |
| 422 | 3.60 | | | | | 1/7 | 0.51 | 198-253 V, 60 Hz * | S | 7.8 | 7.5 | 0.24 | 0.24 | 0.20 | | X | 2 |
| 422 | 3.60 | | | | | 1/7 | 0.51 | 198-253 V, 60 Hz * | S | 7.8 | 7.5 | 0.24 | 0.24 | 0.20 | | X | 2 |
| 527 | 3.60 | | | | | 1/6 | 0.68 | 198-254 V, 60 Hz * | S | 7.8 | 7.5 | 0.24 | 0.24 | 0.20 | | | 2 |



R600a • 208-230 V • 60 Hz • KAPPA Tropical

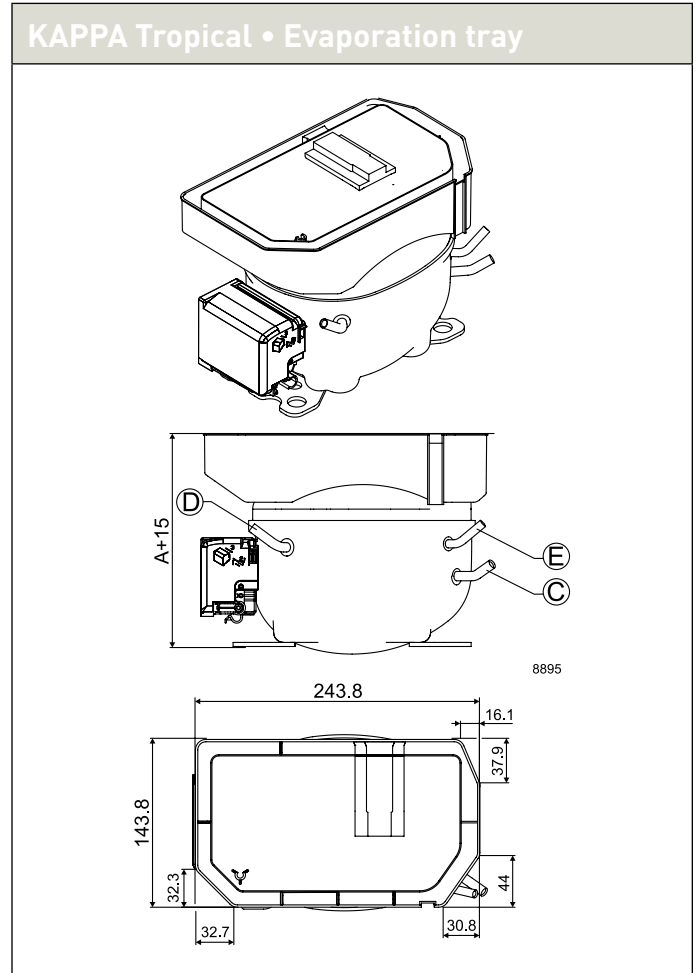
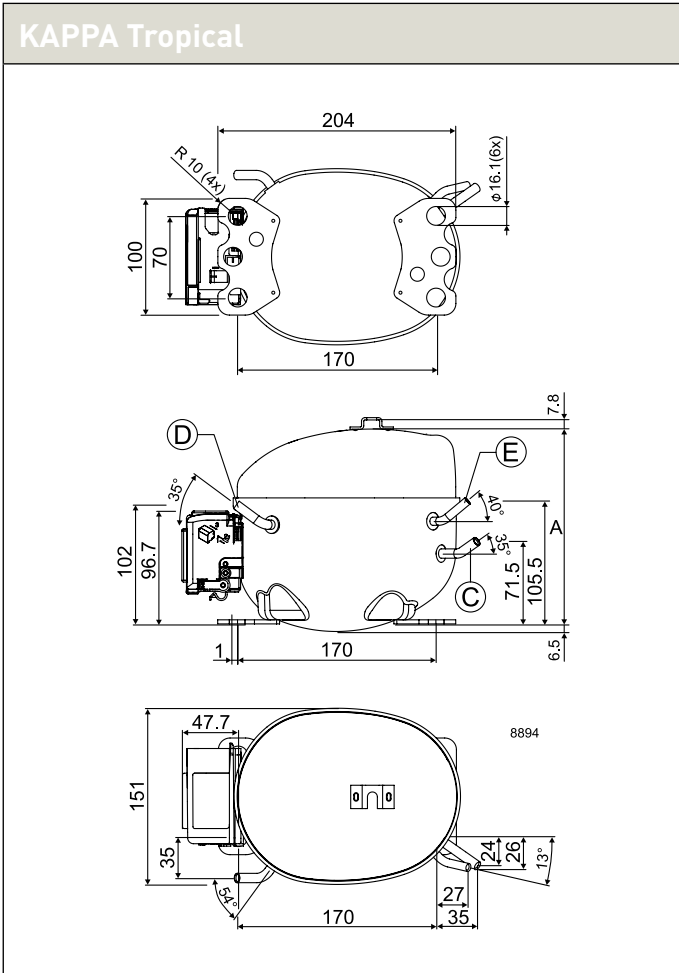
| Compressor | Code number | Application | ASHRAE Capacity [BTU/h] T _c =130°F, T _{liq} =90°F, T _{suc} =90°F Evaporating temperature [°F] | | | | | | ASHRAE | | | | | | ARI Capacity [BTU/h] T _c =120°F, T _{liq} =120°F, T _{suc} =40°F Evaporating temperature [°F] | | | | | | | | | | |
|------------|-------------|-------------|--|------|-----------------|--|--|--|----------------------------------|------|-----------------|--|----------------------------------|--|--|--|-----|---|----|-----|-----|----|--|--|--|
| | | | LBP rating point -10°F / 130°F | | | | | | MBP rating point 20°F / 130°F | | | | HBP rating point 45°F / 130°F | | | | | | | | | | | | |
| | | | Cooling capacity [BTU/h] | | EER [BTU/Wh] | | | | Cooling capacity [BTU/h] | | EER [BTU/Wh] | | Cooling capacity [BTU/h] | | EER [BTU/Wh] | | -31 | 5 | 23 | 32 | 50 | 59 | | | |
| HXK80AT | CD000135 | LBP | 291 | 851 | | | | | 573 | 6.04 | | | | | | | | | | 265 | 681 | | | | |
| HXK87AT | CD000136 | LBP | 365 | 934 | | | | | 627 | 6.04 | | | | | | | | | | 307 | 748 | | | | |
| HXK95AT | CD000137 | LBP | 399 | 1020 | | | | | 685 | 6.04 | | | | | | | | | | 335 | 813 | | | | |
| HXK12AT | CD000138 | LBP | 468 | 1196 | | | | | 805 | 6.04 | | | | | | | | | | 385 | 957 | | | | |

R600a • 208-230 V • 60 Hz • KAPPA Tropical • Electrical Equipment • Spare parts • Accessories

| Compressor | Code number | Run capacitor | Terminal board | | Terminal board | Cable clamp | Cover | Evaporation tray | All-in-one equipment |
|------------|-------------|------------------------------|-------------------------------|----------|--------------------------------|---------------------|-------------------|------------------|---|
| | | • optional • compulsory * | • PTC • external protector | | • ePTC • external protector | screws not included | V0 | plastic | • cover • cable clamp + screws • earthing screw |
| | | Spades | Spades | | Spades | | material optional | | |
| | | 1/4 3/16 inch | 3/16 inch | 1/4 inch | 3/16 inch | | | | |
| HXK80AT | CD000135 | 4 µF * | ZCF5 | DCF5 | | 113410_ | 157595_ | 113188_ | 161680_ |
| HXK87AT | CD000136 | 4 µF * | ZCFC | DCFC | | 113410_ | 157595_ | 113188_ | 161680_ |
| HXK95AT | CD000137 | 4 µF * | ZCFP | DCFP | | 113410_ | 157595_ | 113188_ | 161680_ |
| HXK12AT | CD000138 | 4 µF * | ZCFP | DCFP | | 113410_ | 157595_ | 113188_ | 161680_ |

Refrigerators = 1 | Freezers = 2 | Beverage coolers = 3 | Commercial freezers = 4 | Minibars = 5 | Ice cream cabinets = 6
 Water coolers = 7 | Heat pumps = 8 | Wine coolers = 9 | Display cabinets = 10 | Ice makers = 11

| ARI | | | | | | Power | Displacement | Voltage and frequencies (* dual frequency type with 50/60 Hz) | Compressor cooling (refer-data sheet) | Dimensions | | | | | Application | |
|-----------------------------------|----------|----------------------------------|----------|----------------------------------|----------|-------|--------------|--|--|---------------|---|---------------------------------------|------------------|---------------------|-------------|---------------------------|
| LBP rating point -10°F / 120°F | | MBP rating point 20°F / 120°F | | HBP rating point 45°F / 120°F | | | | | | Height [inch] | | Connectors location / diameter [inch] | | | | alt. connectors available |
| Cooling capacity | EER | Cooling capacity | EER | Cooling capacity | EER | | | | | A | B | Suction C (I.D.) | Process D (O.D.) | Dis-charge E (I.D.) | | |
| [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | [HP] | [cu. inch] | | | | | | | | | |
| 464 | 5.00 | | | | | 1/6 | 0.49 | 198-253 V, 60 Hz * | S | 6.6 | | 0.24 | 0.23 | 0.20 | 1 2 6 | |
| 505 | 5.00 | | | | | 1/6 | 0.54 | 198-253 V, 60 Hz * | S | 6.6 | | 0.24 | 0.23 | 0.20 | 1 2 6 | |
| 550 | 4.98 | | | | | 1/5 | 0.59 | 198-253 V, 60 Hz * | S | 6.6 | | 0.24 | 0.23 | 0.20 | 1 2 6 | |
| 648 | 5.06 | | | | | 1/4 | 0.68 | 198-253 V, 60 Hz * | S | 6.6 | | 0.24 | 0.23 | 0.20 | 1 2 6 | |



R600a • 208-230 V • 60 Hz • DELTA

| Compressor | Code number | Application | ASHRAE Capacity [BTU/h] T _c =130°F, T _{liq} =90°F, T _{suc} =90°F Evaporating temperature [°F] | | | | | | ASHRAE | | | | | | ARI Capacity [BTU/h] T _c =120°F, T _{liq} =120°F, T _{suc} =40°F Evaporating temperature [°F] | | | | | | | | |
|------------|-------------|-------------|--|-----------------|-----------------------------|-----------------|-----------------------------|-----------------|----------------------------------|------|----------------------------------|------|-----|----|--|--|--|----|-----|-----|--|--|--|
| | | | LBP rating point -10°F / 130°F | | | | | | MBP rating point 20°F / 130°F | | HBP rating point 45°F / 130°F | | ARI | | | | | | | | | | |
| | | | Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | -31 | 5 | 23 | 32 | 50 | 59 | | | | | | | | | |
| HTD30AG | CD000118 | LBP | 73 | 280 | 447 | | | | 176 | 4.94 | 374 | 7.26 | | | | | | 61 | 235 | 370 | | | |

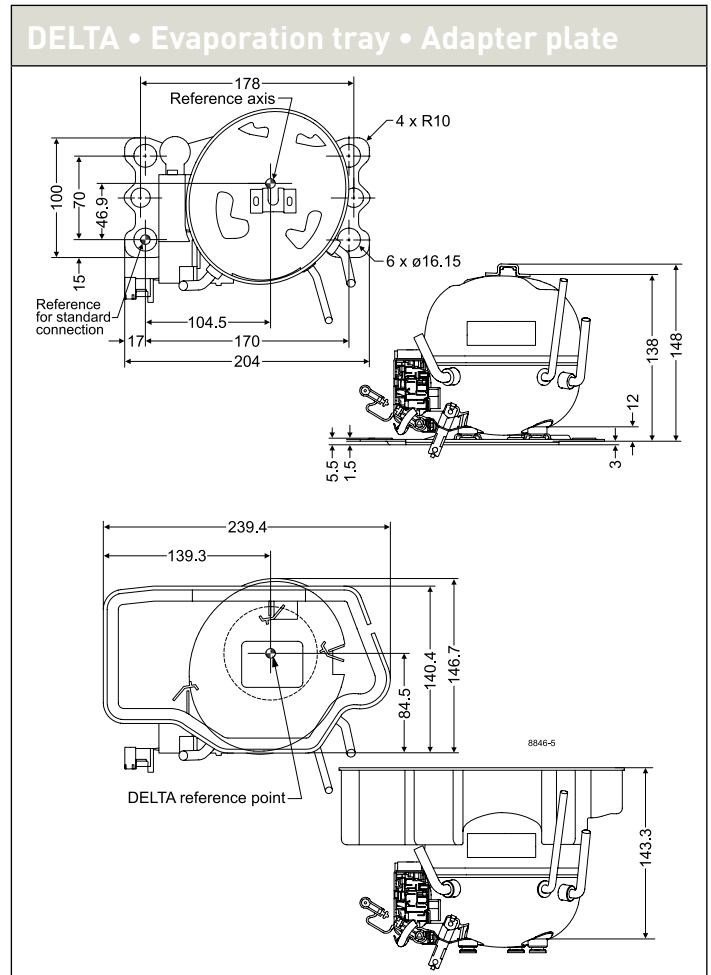
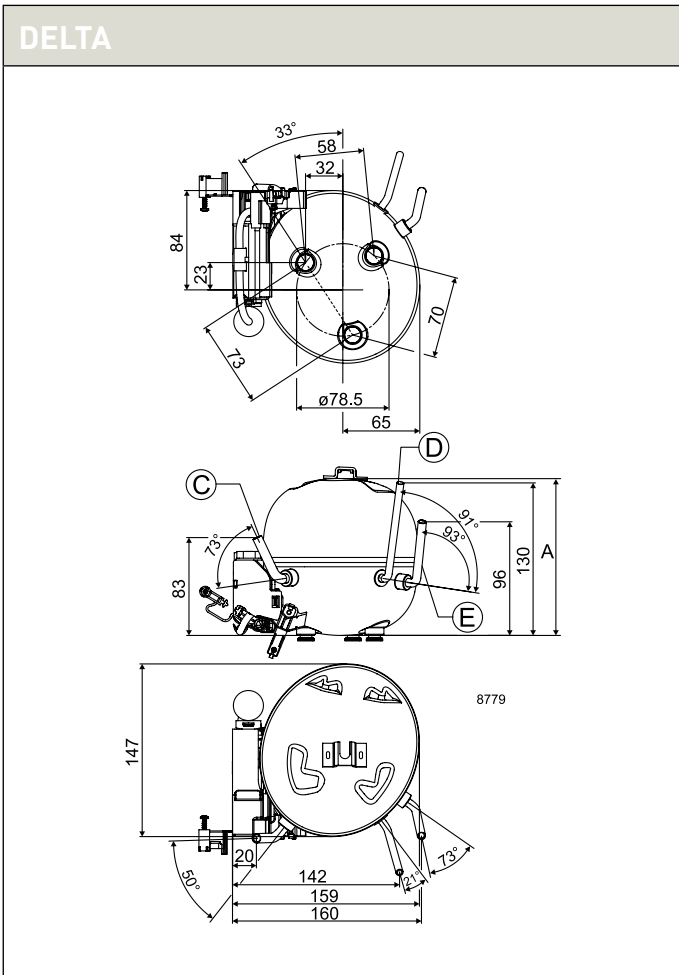
R600a • 208-230 V • 60 Hz • DELTA • Electrical Equipment • Spare parts • Accessories

| Compressor pre-assembled start equipment | Code number | Run capacitor | Terminal board | | Small cover | Adapter plate | Evaporation tray |
|--|-------------|--|---|--|--|--|------------------|
| | | <ul style="list-style-type: none"> optional compulsory * | <ul style="list-style-type: none"> PTC external protector | <ul style="list-style-type: none"> ePTC external protector | <ul style="list-style-type: none"> compulsory delivered separately | <ul style="list-style-type: none"> innovative fixation system faster and easier assembly | plastic |
| | | Spades 3/16 inch | Spades 3/16 inch | Spades 3/16 inch | | | |

| | | | | | | | |
|---------|----------|------|------|--|---------|---------|---------|
| HTD30AG | CD000118 | 2 μF | BNE6 | | 160943_ | 157008_ | 162531_ |
|---------|----------|------|------|--|---------|---------|---------|

Refrigerators = 1 | Freezers = 2 | Beverage coolers = 3 | Commercial freezers = 4 | Minibars = 5 | Ice cream cabinets = 6
 Water coolers = 7 | Heat pumps = 8 | Wine coolers = 9 | Display cabinets = 10 | Ice makers = 11

| ARI | | | | | | Power | Displacement | Voltage and frequencies [* dual frequency type with 50/60 Hz] | Compressor cooling cooling [refer-data sheet] | Dimensions | | | | | Application | |
|-----------------------------------|------|----------------------------------|------|----------------------------------|-----|-------|--------------|--|---|------------------|---|--|---------------------|------------------------|-------------|------------------------------|
| LBP rating point -10°F / 120°F | | MBP rating point 20°F / 120°F | | HBP rating point 45°F / 120°F | | | | | | Height [inch] | | Connectors location / diameter [inch] | | | | alt. connectors available |
| Cooling capacity [BTU/h] | EER | Cooling capacity [BTU/h] | EER | Cooling capacity [BTU/h] | EER | | | | | A | B | Suction C (I.D.) | Process D (O.D.) | Dis-charge E (I.D.) | | |
| 149 | 4.20 | 345 | 7.05 | | | 1/12 | 0.18 | 187-264 V, 60 Hz * | S | 5.2 | | 0.24 | 0.23 | 0.20 | 1 2 5 | |



WITH MORE THAN 60 YEARS OF EXPERIENCE IN COMPRESSOR TECHNOLOGY AND HIGHLY DEDICATED EMPLOYEES, OUR FOCUS IS ON DEVELOPING AND

APPLYING ADVANCED COMPRESSOR TECHNOLOGIES TO ACHIEVE STANDARD SETTING PERFORMANCE FOR LEADING PRODUCTS AND BUSINESSES AROUND THE WORLD.

R404A/R507

220-240 V | 60 Hz



| | |
|---------------|-------|
| N-Series..... | 52-53 |
| S-Series..... | 54-55 |
| G-Series..... | 56-57 |

Chemical formula

R404A: CHF₂CF₃ / CH₃CF₃ / CH₂FCF₃
 R507: CHF₂CF₃ / CH₃CF₃

Typelabel

Typelabel stripe colour: Lilac
 Typelabel colour: Yellow

Applications

LBP: Low Back Pressure
HBP: High Back Pressure
MBP: Medium Back Pressure

Motor types

RSIR: Resistant Start Induction Run
RSCR: Resistant Start Capacitor Run
CSIR: Capacitor Start Induction Run
CSR: Capacitor Start Run

Compressor cooling

S = Static cooling normally sufficient
 O = Oil cooling
 F₁ = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
 F₂ = Fan cooling 3.0 m/s necessary

Starting devices

LST: Low Starting Torque
 LST is used with capillary tube control and pressure equalizing. (Pressure equalizing may exceed 10 minutes). The PTC starting device requires 5 minutes cooling before each start.

To fulfil the requirements of EN 60355-2-34 the protection screen 103N0476 must be applied to the PTC starting device.

HST: High Starting Torque

HST consisting of relay and starting capacitor is used for expansion valve control or for capillary tube control without pressure equalizing.

ePTC: Electronically controlled PTC

- Compressor restart possible after a few seconds
- Operational wattage loss reduced by 2 watt
- PTC protection screen not needed (surface temp. < 179.6 °F)
- Temperature resistant up to min. +140 °F

Test conditons

Electrical equipment being used is listed in our data sheets

1 Watt = 0.86 kcal/h
 1 Watt = 3.41 Btu/h





R404A/R507 • 220-240 V • 60 Hz • N-Series

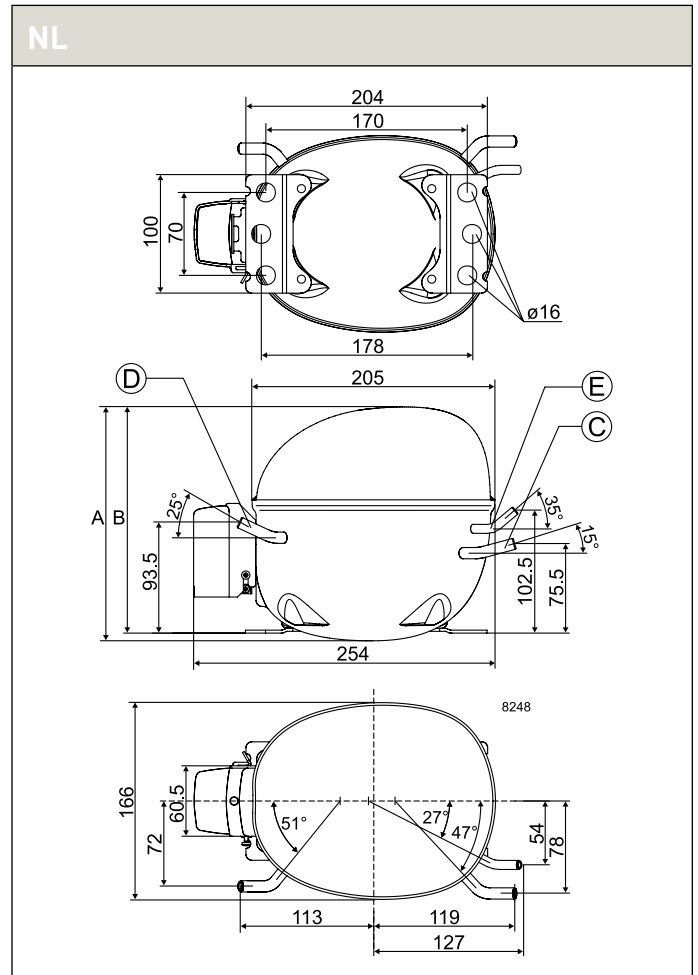
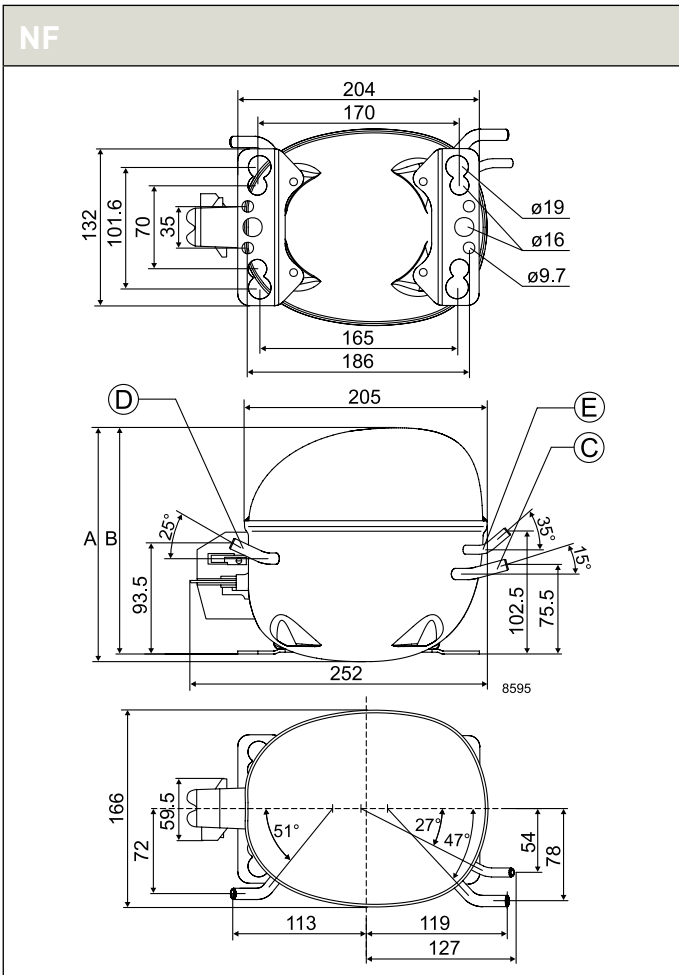
| Compressor | Code number | Application | ASHRAE Capacity [BTU/h] T _c =130°F, T _{liq} =90°F, T _{suc} =90°F Evaporating temperature [°F] | | | | | | ASHRAE | | | | | | ARI Capacity [BTU/h] T _c =120°F, T _{liq} =120°F, T _{suc} =40°F Evaporating temperature [°F] | | | | | | | |
|------------|-------------|-------------|--|-----------------|-----------------------------|-----------------|-----------------------------|-----------------|----------------------------------|------|----------------------------------|----|----|----|--|--|--|------|------|------|--|--|
| | | | LBP rating point -10°F / 130°F | | | | | | MBP rating point 20°F / 130°F | | HBP rating point 45°F / 130°F | | | | | | | | | | | |
| | | | Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | -31 | 5 | 23 | 32 | 50 | 59 | | | | | | | | |
| NL6.1MLX | 105F3610 | MBP | 1853 | 2883 | 3518 | | | | | 2311 | 5.52 | | | | | | | 1363 | 2054 | 2463 | | |
| NL6.1MLX | 105F3611 | MBP | 1853 | 2883 | 3518 | | | | | 2311 | 5.52 | | | | | | | 1363 | 2054 | 2463 | | |
| NF7MLX | 105F3720 | MBP | 2260 | 3516 | 4291 | | | | | 2819 | 5.33 | | | | | | | 1662 | 2505 | 3005 | | |
| NF7MLX | 105F3721 | MBP | 2260 | 3516 | 4291 | | | | | 2819 | 5.33 | | | | | | | 1662 | 2505 | 3005 | | |

R404A/R507 • 220-240 V • 60 Hz • N-Series • Electrical Equipment

| Compressor | Code number | LST (RSIR & RSCR) - refer to data sheet for more info | | | | | Run capacitor (RC) | | HST (CSIR & CSR) - * alt. cable lengths avail. | | | | LST/HST | |
|------------|-------------|---|-----------|---------------------------------------|-----------|-----------|--|----------------|--|-------------------|----------------|-------------|----------|----------|
| | | PTC starting device | | PTC starting device with RC connector | | ePTC | optional or compulsory (refer to data sheet) | Starting relay | Starting capacitor | Starting device * | Starting kit * | Cord relief | Cover | |
| | | Spades | | Spades | | Spades | Spades | Spades | | Spades | | | | |
| | | 1/4 inch | 3/16 inch | 1/4 inch | 3/16 inch | 3/16 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 1/4 inch | 1/4 inch | | |
| NL6.1MLX | 105F3610 | | | | | | | 117U6022 | 117U5015 | | | | 103N1010 | 103N2011 |
| NL6.1MLX | 105F3611 | | | | | | | 117U6022 | 117U5015 | | | | 103N1010 | 103N2011 |
| NF7MLX | 105F3720 | | | | | | | 117U4139 | 117U5018 | | | | 117U0349 | 117U1021 |
| NF7MLX | 105F3721 | | | | | | | 117U4139 | 117U5018 | | | | 117U0349 | 117U1021 |

Refrigerators = 1 | Freezers = 2 | Beverage coolers = 3 | Commercial freezers = 4 | Minibars = 5 | Ice cream cabinets = 6
 Water coolers = 7 | Heat pumps = 8 | Wine coolers = 9 | Display cabinets = 10 | Ice makers = 11

| ARI | | | | | | Power | Displacement | Voltage and frequencies [* dual frequency type with 50/60 Hz] | Compressor cooling cooling [refer-data sheet] | Dimensions | | | | | | Application | |
|-----------------------------------|-----|----------------------------------|------|----------------------------------|-----|-------|--------------|--|---|------------------|-----|------------------------------------|--------------|-----------------|-----------------|-------------|------------------------------|
| LBP rating point -10°F / 120°F | | MBP rating point 20°F / 120°F | | HBP rating point 45°F / 120°F | | | | | | Height [inch] | | Connectors location/I.D. [inch] | | | | | alt. connectors available |
| Cooling capacity [BTU/h] | EER | Cooling capacity [BTU/h] | EER | Cooling capacity [BTU/h] | EER | | | | | A | B | Suction C | Process D | Dis-charge E | Oil cooler F | | |
| | | 1927 | 4.81 | | | 1/3 | 0.37 | 187-254 V, 60 Hz | F2 | 8.0 | 7.8 | 0.38 | 0.26 | 0.26 | X | 10 11 | |
| | | 1927 | 4.81 | | | 1/3 | 0.37 | 187-254 V, 60 Hz * | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 10 11 | |
| | | 2350 | 4.56 | | | 1/2 | 0.44 | 187-254 V, 60 Hz * | F2 | 8.0 | 7.8 | 0.38 | 0.26 | 0.26 | | 10 11 | |
| | | 2350 | 4.56 | | | 1/2 | 0.44 | 187-254 V, 60 Hz * | F2 | 8.0 | 7.8 | 0.38 | 0.26 | 0.26 | X | 10 11 | |



R404A/R507 • 220-240 V • 60 Hz • S-Series

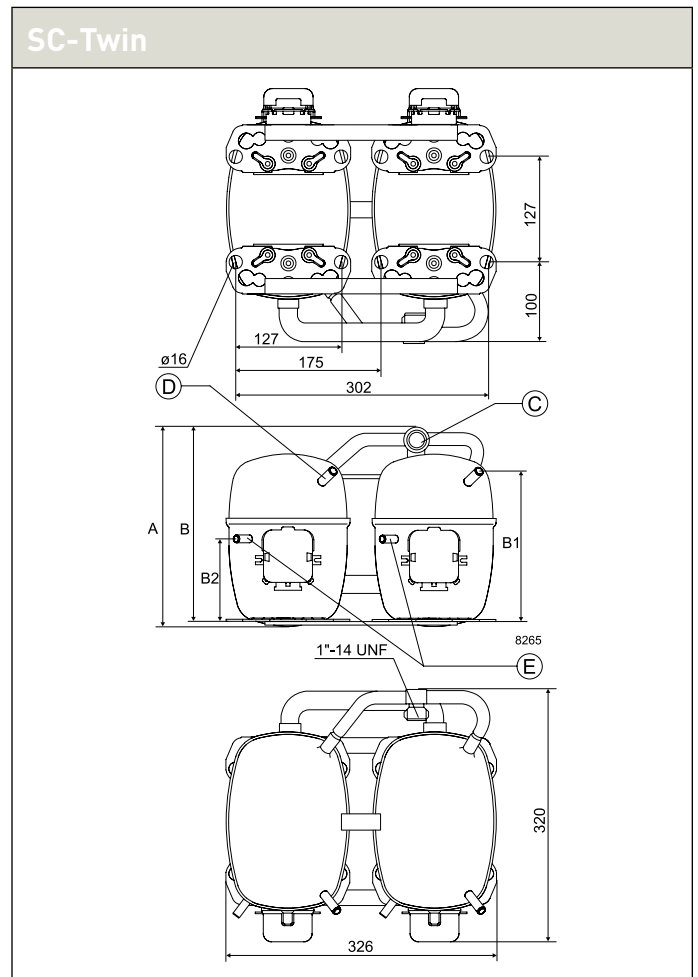
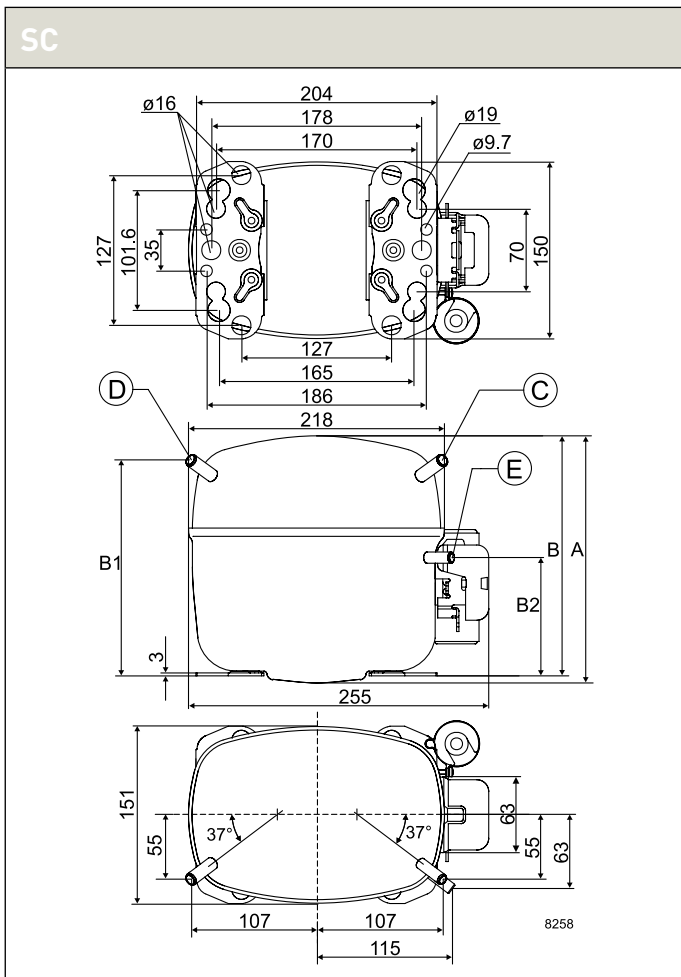
| Compressor | Code number | Application | ASHRAE Capacity [BTU/h] T _c =130°F, T _{liq} =90°F, T _{suc} =90°F Evaporating temperature [°F] | | | | | | ASHRAE | | | | | | ARI Capacity [BTU/h] T _c =120°F, T _{liq} =120°F, T _{suc} =40°F Evaporating temperature [°F] | | | | | |
|------------|-------------|-------------|--|------|------|------|----|------|----------------------------------|-----------------|----------------------------------|-----------------|-----------------------------|-----------------|--|------|------|----|----|----|
| | | | LBP rating point -10°F / 130°F | | | | | | MBP rating point 20°F / 130°F | | HBP rating point 45°F / 130°F | | | | | | | | | |
| | | | -31 | 5 | 23 | 32 | 50 | 59 | Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | -31 | 5 | 23 | 32 | 50 | 59 |
| SC10CLX | 104L2512 | L/MBP | 529 | 2786 | | | | 1763 | 3.95 | | | | | | 537 | 2007 | | | | |
| SC10CLX | 104L2533 | L/MBP | 529 | 2786 | | | | 1763 | 3.95 | | | | | | 537 | 2007 | | | | |
| SC10CLX | 104L2536 | L/MBP | 529 | 2786 | | | | 1763 | 3.95 | | | | | | 537 | 2007 | | | | |
| SC12CLX | 104L2672 | LBP | 771 | 3744 | | | | 2378 | 4.20 | | | | | | 696 | 2658 | | | | |
| SC12CLX | 104L2695 | LBP | 771 | 3744 | | | | 2378 | 4.20 | | | | | | 696 | 2658 | | | | |
| SC15CLX | 104L2854 | LBP | 800 | 4141 | | | | 2636 | 4.20 | | | | | | 826 | 3095 | | | | |
| SC12CLX.2 | 104L2663 | LBP | 1081 | 3704 | | | | 2408 | 4.07 | | | | | | 893 | 2720 | | | | |
| SC12CLX.2 | 104L2673 | LBP | 1081 | 3704 | | | | 2408 | 4.07 | | | | | | 893 | 2720 | | | | |
| SC12CLX.2 | 104L2697 | LBP | 1081 | 3704 | | | | 2408 | 4.07 | | | | | | 893 | 2720 | | | | |
| SC12CLX.2 | 104L2699 | LBP | 1081 | 3704 | | | | 2408 | 4.33 | | | | | | 893 | 2720 | | | | |
| SC15CLX.2 | 104L2887 | LBP | 1409 | 4564 | | | | 3005 | 4.53 | | | | | | 1146 | 3341 | | | | |
| SC15CLX.2 | 104L2897 | LBP | 1409 | 4564 | | | | 3005 | 4.53 | | | | | | 1146 | 3341 | | | | |
| SC18CLX.2 | 104L2172 | LBP | 1774 | 5306 | | | | 3797 | 4.76 | | | | | | 1429 | 3818 | | | | |
| SC18CLX.2 | 104L2185 | LBP | 1479 | 5011 | | | | 3487 | 4.67 | | | | | | 1275 | 3640 | | | | |
| SC18CLX.2 | 104L2195 | LBP | 1774 | 5306 | | | | 3797 | 4.76 | | | | | | 1429 | 3818 | | | | |
| SC10MLX | 104L2506 | MBP | | 2874 | 4545 | 5578 | | 1805 | 3.91 | 3636 | 5.22 | | | | 2164 | 3287 | 3955 | | | |
| SC12MLX | 104L2606 | MBP | | 3445 | 5372 | 6563 | | 2212 | 4.02 | 4305 | 5.18 | | | | 2579 | 3872 | 4642 | | | |
| SC18MLX | 104L2138 | MBP | | 5191 | 7947 | 9691 | | | | 6378 | 5.03 | | | | 3805 | 5633 | 6739 | | | |
| SC15MLX.2 | 104L2803 | MBP | | 4210 | 6472 | 7918 | | | | 5188 | 5.32 | | | | 3081 | 4623 | 5560 | | | |
| SC12/12CLX | 104L4034 | LBP | 1533 | 7450 | | | | 4733 | 4.18 | | | | | | 1384 | 5290 | | | | |

R404A/R507 • 220-240 V • 60 Hz • S-Series • Electrical Equipment

| Compressor | Code number | LST (RSIR & RSCR) - refer to data sheet for more info | | | | | | Run capacitor (RC) | | HST (CSIR & CSR) - * alt. cable lengths avail. | | | | LST/HST | |
|------------|-------------|---|-----------|---------------------------------------|-----------|-----------|--|--------------------|----------------|--|-------------------|----------------|-------------|----------|----------|
| | | PTC starting device | | PTC starting device with RC connector | | ePTC | optional or compulsory (refer to data sheet) | | Starting relay | Starting capacitor | Starting device * | Starting kit * | Cord relief | Cover | |
| | | Spades | | Spades | | Spades | Spades | | Spades | | Spades | | | | |
| | | 1/4 inch | 3/16 inch | 1/4 inch | 3/16 inch | 3/16 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 1/4 inch | 1/4 inch | | | |
| SC10CLX | 104L2512 | | | | | | | | | 117U6005 | 117U5017 | | | 103N1004 | 103N2008 |
| SC10CLX | 104L2533 | | | | | | | | | 117U6005 | 117U5017 | | | 103N1004 | 103N2008 |
| SC10CLX | 104L2536 | | | | | | | | | 117U6005 | 117U5017 | | | 103N1004 | 103N2008 |
| SC12CLX | 104L2672 | | | | | | | | | 117U6019 | 117U5017 | | | 103N1004 | 103N2008 |
| SC12CLX | 104L2695 | | | | | | | | | 117U6019 | 117U5017 | | | 103N1004 | 103N2008 |
| SC15CLX | 104L2854 | | | | | | | | | | 117U5373 | 117-7039 | | 103N1004 | 103N2008 |
| SC12CLX.2 | 104L2663 | | | | | | | | | 117U6019 | 117U5017 | | | 103N1004 | 103N2008 |
| SC12CLX.2 | 104L2673 | | | | | | | | | 117U6019 | 117U5017 | | | 103N1004 | 103N2008 |
| SC12CLX.2 | 104L2697 | | | | | | | | | 117U6019 | 117U5017 | | | 103N1004 | 103N2008 |
| SC12CLX.2 | 104L2699 | | | | | | | | | | | 117-7027 | | 103N1004 | 103N2008 |
| SC15CLX.2 | 104L2887 | | | | | | | | | | 117U5373 | 117-7039 | | 103N1004 | 103N2008 |
| SC15CLX.2 | 104L2897 | | | | | | | | | | 117U5373 | 117-7039 | | 103N1004 | 103N2008 |
| SC18CLX.2 | 104L2172 | | | | | | | | | | 117U5373 | 117-7066 | | 103N1004 | 103N2008 |
| SC18CLX.2 | 104L2185 | | | | | | | | | | 117U5373 | 117-7066 | | 103N1004 | 103N2008 |
| SC18CLX.2 | 104L2195 | | | | | | | | | | 117U5373 | 117-7066 | | 103N1004 | 103N2008 |
| SC10MLX | 104L2506 | | | | | | | | | 117U6011 | 117U5017 | | | 103N1004 | 103N2008 |
| SC12MLX | 104L2606 | | | | | | | | | 117U6011 | 117U5017 | | | 103N1004 | 103N2008 |
| SC18MLX | 104L2138 | | | | | | | | | | | 117-7066 | | 103N1004 | 103N2008 |
| SC15MLX.2 | 104L2803 | | | | | | | | | | | 117-7058 | | 103N1004 | 103N2008 |
| SC12/12CLX | 104L4034 | | | | | | | | | 117U6019 | 117U5017 | | | 103N1004 | 103N2009 |

Refrigerators = 1 | Freezers = 2 | Beverage coolers = 3 | Commercial freezers = 4 | Minibars = 5 | Ice cream cabinets = 6
 Water coolers = 7 | Heat pumps = 8 | Wine coolers = 9 | Display cabinets = 10 | Ice makers = 11

| ARI | | | | | | Power | Displacement | Voltage and frequencies [* dual frequency type with 50/60 Hz] | Compressor cooling cooling [refer-data sheet] | Dimensions | | | | | | Application | |
|-----------------------------------|----------|----------------------------------|----------|----------------------------------|----------|-------|--------------|--|---|---------------|------|---------------------------------|---------|------------|------------|-------------|---------------------------|
| LBP rating point -10°F / 120°F | | MBP rating point 20°F / 120°F | | HBP rating point 45°F / 120°F | | | | | | Height [inch] | | Connectors location/I.D. [inch] | | | | | alt. connectors available |
| Cooling capacity | EER | Cooling capacity | EER | Cooling capacity | EER | | | | | A | B | Suction | Process | Dis-charge | Oil cooler | | |
| [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | [HP] | [cu. inch] | | | | | | | | | | |
| 1337 | 2.98 | | | | | 1/2 | 0.63 | 198-254 V, 60 Hz * | F2 | 8.2 | 8.0 | 0.38 | 0.26 | 0.26 | X | 4 10 | |
| 1337 | 2.98 | | | | | 1/2 | 0.63 | 198-254 V, 60 Hz * | F2 | 8.2 | 8.0 | 0.32 | 0.24 | 0.24 | X | 4 10 | |
| 1337 | 2.98 | | | | | 1/2 | 0.63 | 198-254 V, 60 Hz * | F2 | 8.2 | 8.0 | 0.38 | 0.26 | 0.26 | X | 4 10 | |
| 1755 | 3.10 | | | | | 3/5 | 0.79 | 198-254 V, 60 Hz | F2 | 8.6 | 8.4 | 0.38 | 0.26 | 0.26 | X | 4 6 | |
| 1755 | 3.10 | | | | | 3/5 | 0.79 | 198-254 V, 60 Hz | F2 | 8.6 | 8.4 | 0.32 | 0.24 | 0.24 | X | 4 6 | |
| 2073 | 3.26 | | | | | 3/4 | 0.93 | 198-254 V, 60 Hz | F2 | 8.6 | 8.4 | 0.40 | 0.24 | 0.24 | | 4 6 | |
| 1829 | 3.18 | | | | | 3/4 | 0.79 | 198-254 V, 60 Hz * | F2 | 8.6 | 8.4 | 0.32 | 0.26 | 0.26 | X | 4 6 | |
| 1829 | 3.18 | | | | | 3/4 | 0.79 | 198-254 V, 60 Hz * | F2 | 8.6 | 8.4 | 0.38 | 0.26 | 0.26 | X | 4 6 | |
| 1829 | 3.18 | | | | | 3/4 | 0.79 | 198-254 V, 60 Hz * | F2 | 8.6 | 8.4 | 0.32 | 0.24 | 0.24 | X | 4 6 | |
| 1829 | 3.36 | | | | | 3/4 | 0.79 | 187-254 V, 60 Hz | F2 | 8.6 | 8.4 | 0.38 | 0.26 | 0.26 | X | 4 6 | |
| 2270 | 3.51 | | | | | 5/6 | 0.93 | 187-254 V, 60 Hz | F2 | 8.6 | 8.4 | 0.38 | 0.26 | 0.26 | X | 4 6 | |
| 2270 | 3.51 | | | | | 5/6 | 0.93 | 187-254 V, 60 Hz | F2 | 8.6 | 8.4 | 0.38 | 0.26 | 0.26 | X | 4 6 | |
| 2759 | 3.50 | | | | | 1 | 1.08 | 187-254 V, 60 Hz | F2 | 8.6 | 8.4 | 0.38 | 0.26 | 0.26 | X | 4 6 | |
| 2584 | 3.42 | | | | | 1 | 1.08 | 187-254 V, 60 Hz | F2 | 8.6 | 8.4 | 0.38 | 0.26 | 0.26 | X | 4 6 | |
| 2759 | 3.50 | | | | | 1 | 1.08 | 187-254 V, 60 Hz | F2 | 8.6 | 8.4 | 0.38 | 0.26 | 0.26 | X | 4 6 | |
| 1431 | 3.05 | 3080 | 4.60 | | | 1/2 | 0.63 | 187-254 V, 60 Hz * | F2 | 8.2 | 8.0 | 0.32 | 0.26 | 0.26 | | 10 11 | |
| 1735 | 3.10 | 3634 | 4.55 | | | 3/5 | 0.79 | 187-254 V, 60 Hz * | F2 | 8.6 | 8.4 | 0.32 | 0.26 | 0.26 | | 10 11 | |
| | | 5293 | 4.32 | | | 1 | 1.08 | 187-254 V, 60 Hz | F2 | 8.6 | 8.4 | 0.38 | 0.26 | 0.26 | | 10 11 | |
| | | 4335 | 4.66 | | | 3/4 | 0.93 | 187-254 V, 60 Hz | F2 | 8.6 | 8.4 | 0.38 | 0.26 | 0.26 | | 10 11 | |
| 3493 | 3.08 | | | | | 1 1/4 | 1.57 | 198-254 V, 60 Hz | F2 | 10.2 | 10.0 | 0.47 | 0.24 | 0.24 | | 4 | |



R404A/R507 • 220-240 V • 60 Hz • G-Series

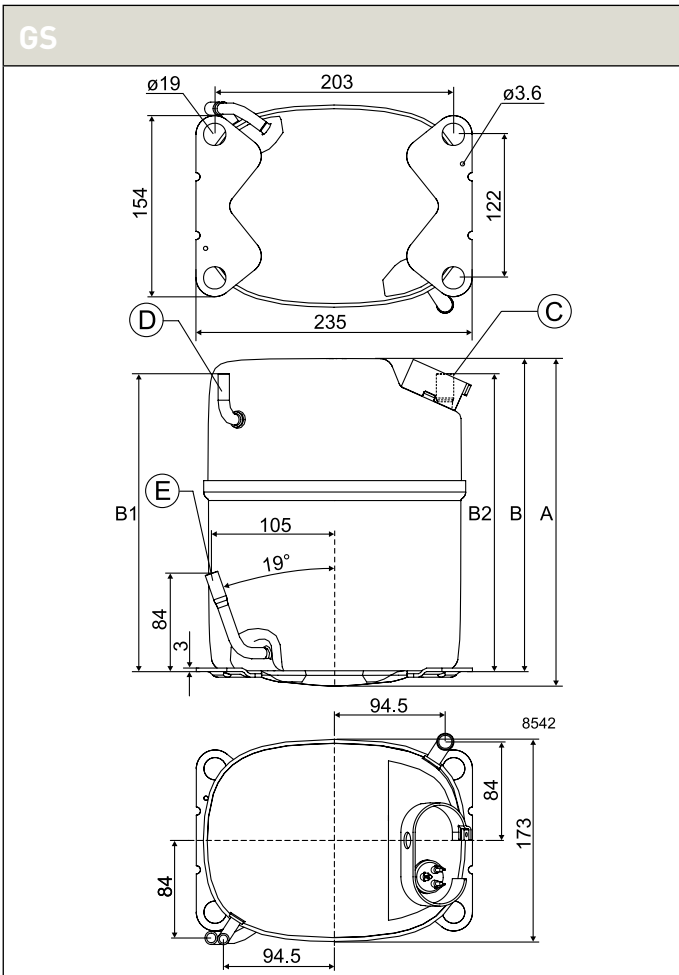
| Compressor | Code number | Application | ASHRAE Capacity [BTU/h] T _c =130°F, T _{liq} =90°F, T _{suc} =90°F Evaporating temperature [°F] | | | | | | ASHRAE | | | | | | ARI Capacity [BTU/h] T _c =120°F, T _{liq} =120°F, T _{suc} =40°F Evaporating temperature [°F] | | | | | |
|------------|-------------|-------------|--|------|-------|-------|----|------|----------------------------------|-----------------|----------------------------------|-----------------|-----------------------------|-----------------|--|------|------|----|----|----|
| | | | LBP rating point -10°F / 130°F | | | | | | MBP rating point 20°F / 130°F | | HBP rating point 45°F / 130°F | | ARI | | | | | | | |
| | | | -31 | 5 | 23 | 32 | 50 | 59 | Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | -31 | 5 | 23 | 32 | 50 | 59 |
| GS21CLX | 107B0506 | LBP | 1993 | 6548 | | | | 4286 | 4,60 | | | | | 1596 | 4794 | | | | | |
| GS26CLX | 107B0505 | LBP | 2453 | 7216 | | | | 4854 | 4,14 | | | | | 1979 | 5347 | | | | | |
| GS21MLX | 107B0509 | MBP | | 6973 | 10697 | 13036 | | | | 8587 | 6,34 | | | | 5169 | 7761 | 9320 | | | |

R404A/R507 • 220-240 V • 60 Hz • G-Series • Electrical Equipment

| Compressor | Code number | LST (RSIR & RSCR) - refer to data sheet for more info | | | | | | Run capacitor (RC) | | HST (CSIR & CSR) - * alt. cable lengths avail. | | | | LST/HST | |
|------------|-------------|---|-----------|---------------------------------------|-----------|-----------|--|--------------------|----------------|--|-------------------|----------------|-------------|----------|--|
| | | PTC starting device | | PTC starting device with RC connector | | ePTC | optional or compulsory (refer to data sheet) | | Starting relay | Starting capacitor | Starting device * | Starting kit * | Cord relief | Cover | |
| | | Spades | | Spades | | Spades | Spades | | Spades | | Spades | | | | |
| | | 1/4 inch | 3/16 inch | 1/4 inch | 3/16 inch | 3/16 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 1/4 inch | 1/4 inch | | | |
| GS21CLX | 107B0506 | | | | | | | | | | | 117-7073 | | 107B9101 | |
| GS26CLX | 107B0505 | | | | | | | | | | | 117-7073 | | 107B9101 | |
| GS21MLX | 107B0509 | | | | | | | | | | | 117-7073 | | 107B9106 | |

Refrigerators = 1 | Freezers = 2 | Beverage coolers = 3 | Commercial freezers = 4 | Minibars = 5 | Ice cream cabinets = 6
 Water coolers = 7 | Heat pumps = 8 | Wine coolers = 9 | Display cabinets = 10 | Ice makers = 11

| ARI | | | | | | Power | Displacement | Voltage and frequencies [* dual frequency type with 50/60 Hz] | Compressor cooling cooling (refer-data sheet) | Dimensions | | | | | | Application | |
|-----------------------------------|-----------------|----------------------------------|-----------------|----------------------------------|-----------------|-------|--------------|--|---|------------------|------|------------------------------------|--------------|-----------------|-----------------|-------------|------------------------------|
| LBP rating point -10°F / 120°F | | MBP rating point 20°F / 120°F | | HBP rating point 45°F / 120°F | | | | | | Height [inch] | | Connectors location/I.D. [inch] | | | | | alt. connectors available |
| Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | | | | | A | B | Suction C | Process D | Dis-charge E | Oil cooler F | | |
| 3226 | 3.51 | | | | | 1 1/4 | 1.29 | 187-254 V, 60 Hz | F2 | 10.2 | 9.7 | 0.51 | 0.26 | 0.32 | | 4 | |
| 3694 | 3.19 | | | | | 1 1/4 | 1.60 | 187-254 V, 60 Hz | F2 | 11.0 | 10.5 | 0.51 | 0.26 | 0.32 | | 4 | |
| | | 7281 | 5.65 | | | 1 1/4 | 1.29 | 187-254 V, 60 Hz | F2 | 11.0 | 10.5 | 0.51 | 0.26 | 0.38 | | 4 10 | |



WITH MORE THAN 60 YEARS OF EXPERIENCE IN COMPRESSOR TECHNOLOGY AND HIGHLY DEDICATED EMPLOYEES, OUR FOCUS IS ON DEVELOPING AND

APPLYING ADVANCED COMPRESSOR TECHNOLOGIES TO ACHIEVE STANDARD SETTING PERFORMANCE FOR LEADING PRODUCTS AND BUSINESSES AROUND THE WORLD.

R290

208-230 V | 60 Hz
220-240 V | 60 Hz



| | |
|---------------|-------|
| D-Series..... | 60-61 |
| N-Series..... | 62-63 |
| S-Series..... | 64-65 |

Chemical formula

C₃H₈

Typelabel

Typelabel stripe colour: Red
Typelabel colour: Yellow

Applications

- LBP:** Low Back Pressure
- HBP:** High Back Pressure
- MBP:** Medium Back Pressure

Motor types

- RSIR:** Resistant Start Induction Run
- RSCR:** Resistant Start Capacitor Run
- CSIR:** Capacitor Start Induction Run
- CSR:** Capacitor Start Run

Compressor cooling

- S = Static cooling normally sufficient
- O = Oil cooling
- F₁ = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
- F₂ = Fan cooling 3.0 m/s necessary

Starting devices

LST: Low Starting Torque

LST is used with capillary tube control and pressure equalizing. (Pressure equalizing may exceed 10 minutes). The PTC starting device requires 5 minutes cooling before each start.

To fulfil the requirements of EN 60355-2-34 the protection screen 103N0476 must be applied to the PTC starting device.

HST: High Starting Torque

HST consisting of relay and starting capacitor is used for expansion valve control or for capillary tube control without pressure equalizing.

ePTC: Electronically controlled PTC

- Compressor restart possible after a few seconds
- Operational wattage loss reduced by 2 watt
- PTC protection screen not needed (surface temp. < 179.6 °F)
- Temperature resistant up to min. +140 °F

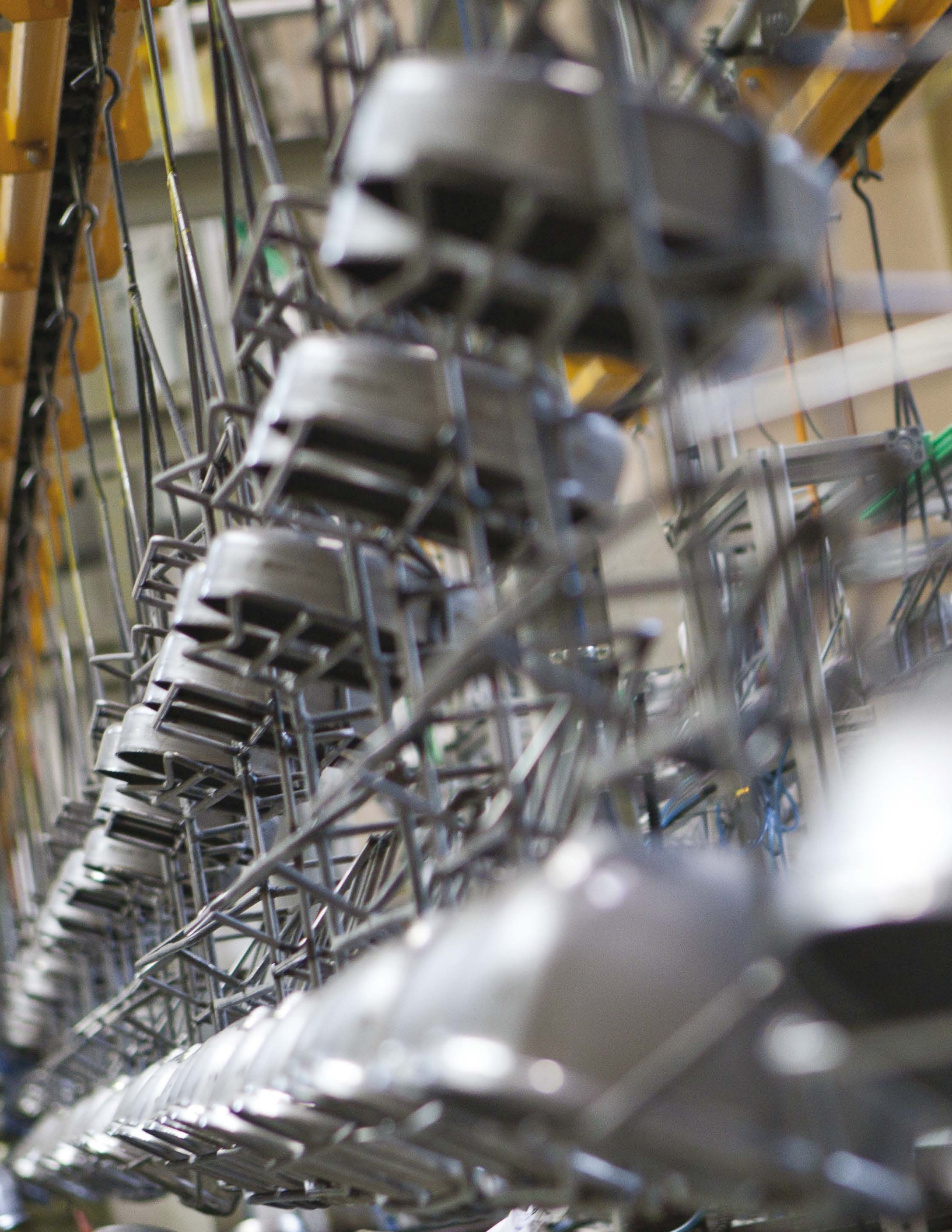
Test conditons

Electrical equipment being used is listed in our data sheets

1 Watt = 0.86 kcal/h

1 Watt = 3.41 Btu/h





R290 • 208-230 V • 60 Hz • D-Series

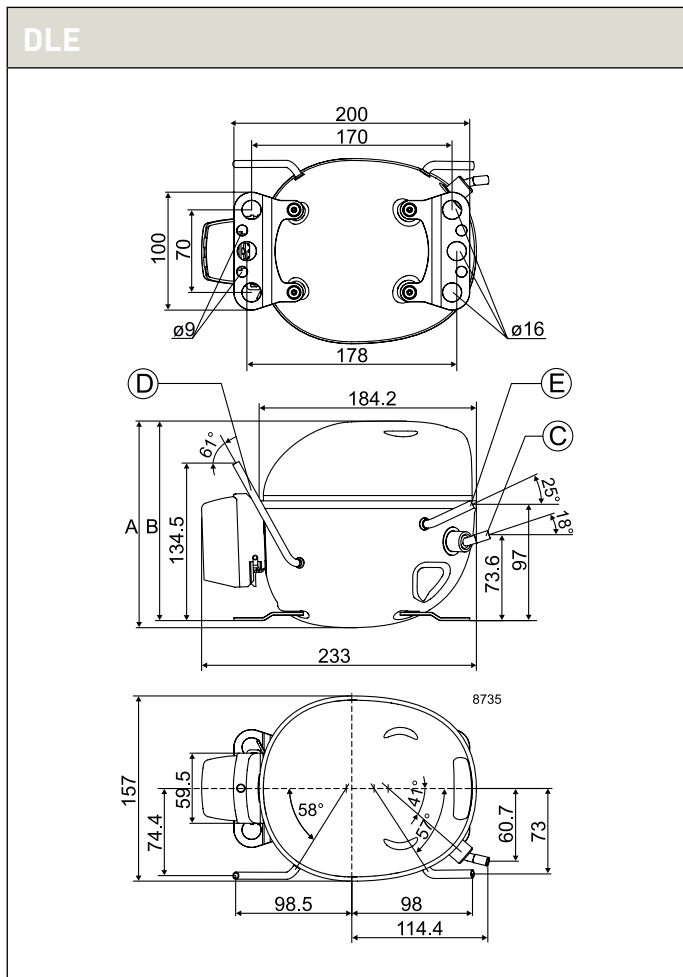
| Compressor | Code number | Application | ASHRAE Capacity [BTU/h] T _c =130°F, T _{liq} =90°F, T _{suc} =90°F Evaporating temperature [°F] | | | | | | ASHRAE | | | | | | ARI Capacity [BTU/h] T _c =120°F, T _{liq} =120°F, T _{suc} =40°F Evaporating temperature [°F] | | | | | | | |
|------------|-------------|-------------|--|------|------|------|----|----|----------------------------------|----------|---------|----------|----------------------------------|----------|--|------|------|------|----|----|--|--|
| | | | LBP rating point -10°F / 130°F | | | | | | MBP rating point 20°F / 130°F | | | | HBP rating point 45°F / 130°F | | | | | | | | | |
| | | | Cooling capacity | | EER | | | | Cooling capacity | | EER | | Cooling capacity | | EER | | | | | | | |
| | | | -31 | 5 | 23 | 32 | 50 | 59 | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | -31 | 5 | 23 | 32 | 50 | 59 | | |
| DLE4.8CNT | 102H3589 | L/MBP | 537 | 1379 | 2040 | 2454 | | | 965 | 5.44 | 1715 | 7.33 | | | 448 | 1108 | 1619 | 1931 | | | | |
| DLE4.8CNT | 102H4587 | L/MBP | 537 | 1379 | 2040 | 2454 | | | 965 | 5.44 | 1715 | 7.33 | | | 448 | 1108 | 1619 | 1931 | | | | |
| DLE5.7CNT | 102H4666 | L/MBP | 678 | 1700 | 2483 | 2971 | | | 1205 | 5.57 | 2091 | 7.25 | | | 560 | 1356 | 1957 | 2324 | | | | |
| DLE5.7CNT | 102H4678 | L/MBP | 678 | 1700 | 2483 | 2971 | | | 1205 | 5.57 | 2091 | 7.25 | | | 560 | 1356 | 1957 | 2324 | | | | |
| DLE5.7CNT | 102H4679 | L/MBP | 678 | 1700 | 2483 | 2971 | | | 1205 | 5.57 | 2091 | 7.25 | | | 560 | 1356 | 1957 | 2324 | | | | |

R290 • 208-230 V • 60 Hz • D-Series • Electrical Equipment

| Compressor | Code number | LST (RSIR & RSCR) - refer to data sheet for more info | | | | | Run capacitor (RC) | | HST (CSIR & CSR) - * alt. cable lengths avail. | | | | LST/HST | |
|------------|-------------|---|-----------|---------------------------------------|-----------|-----------|--|----------------|--|-------------------|----------------|-------------|----------|----------|
| | | PTC starting device | | PTC starting device with RC connector | | ePTC | optional or compulsory (refer to data sheet) | Starting relay | Starting capacitor | Starting device * | Starting kit * | Cord relief | Cover | |
| | | Spades | | Spades | | Spades | Spades | Spades | | Spades | | | | |
| | | 1/4 inch | 3/16 inch | 1/4 inch | 3/16 inch | 3/16 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 1/4 inch | 1/4 inch | | |
| DLE4.8CNT | 102H3589 | | | | | 103N0050 | | 117-7129 | 117U7002 | 117U5015 | | | 103N1010 | 103N0491 |
| DLE4.8CNT | 102H4587 | | | | | 103N0050 | | 117-7129 | 117U7002 | 117U5015 | | | 103N1010 | 103N0491 |
| DLE5.7CNT | 102H4666 | | | | | 103N0050 | | 117-7129 | 117U7002 | 117U5015 | | | 103N1010 | 103N0491 |
| DLE5.7CNT | 102H4678 | | | | | 103N0050 | | 117-7129 | 117U7002 | 117U5015 | | | 103N1010 | 103N0491 |
| DLE5.7CNT | 102H4679 | | | | | 103N0050 | | 117-7129 | 117U7002 | 117U5015 | | | 103N1010 | 103N0491 |

Refrigerators = 1 | Freezers = 2 | Beverage coolers = 3 | Commercial freezers = 4 | Minibars = 5 | Ice cream cabinets = 6
 Water coolers = 7 | Heat pumps = 8 | Wine coolers = 9 | Display cabinets = 10 | Ice makers = 11

| ARI | | | | | | Power | Displacement | Voltage and frequencies [* dual frequency type with 50/60 Hz] | Compressor cooling [refer-data sheet] | Dimensions | | | | | | alt. connectors available | Application |
|-----------------------------------|-----------------|----------------------------------|-----------------|----------------------------------|-----------------|-------|--------------|--|--|---------------|---------------------------------|------|--------------|--------------|-----------------|---------------------------|-------------|
| LBP rating point -10°F / 120°F | | MBP rating point 20°F / 120°F | | HBP rating point 45°F / 120°F | | | | | | Height [inch] | Connectors location/I.D. [inch] | | | | | | |
| Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | | | | | | A | B | Suction C | Process D | Dis-charge E | | |
| 783 | 4.54 | 1524 | 6.84 | | | 1/4 | 0.29 | 187-253 V, 60 Hz * | F2 | 6.9 | 6.7 | 0.32 | 0.26 | 0.26 | X | 3 4 6 7 10 11 | |
| 783 | 4.54 | 1524 | 6.84 | | | 1/4 | 0.29 | 187-253 V, 60 Hz * | F2 | 6.9 | 6.7 | 0.32 | 0.26 | 0.26 | X | 3 4 6 7 10 11 | |
| 970 | 4.64 | 1845 | 6.78 | | | 1/3 | 0.35 | 187-253 V, 60 Hz * | F2 | 6.9 | 6.7 | 0.32 | 0.26 | 0.26 | X | 3 4 6 7 10 11 | |
| 970 | 4.64 | 1845 | 6.78 | | | 1/3 | 0.35 | 187-253 V, 60 Hz * | F2 | 6.9 | 6.7 | 0.32 | 0.26 | 0.26 | X | 3 4 6 7 10 11 | |
| 970 | 4.64 | 1845 | 6.78 | | | 1/3 | 0.35 | 187-253 V, 60 Hz * | F2 | 6.9 | 6.7 | 0.32 | 0.26 | 0.26 | X | 3 4 6 7 10 11 | |



R290 • 208-230 V • 60 Hz • N-Series

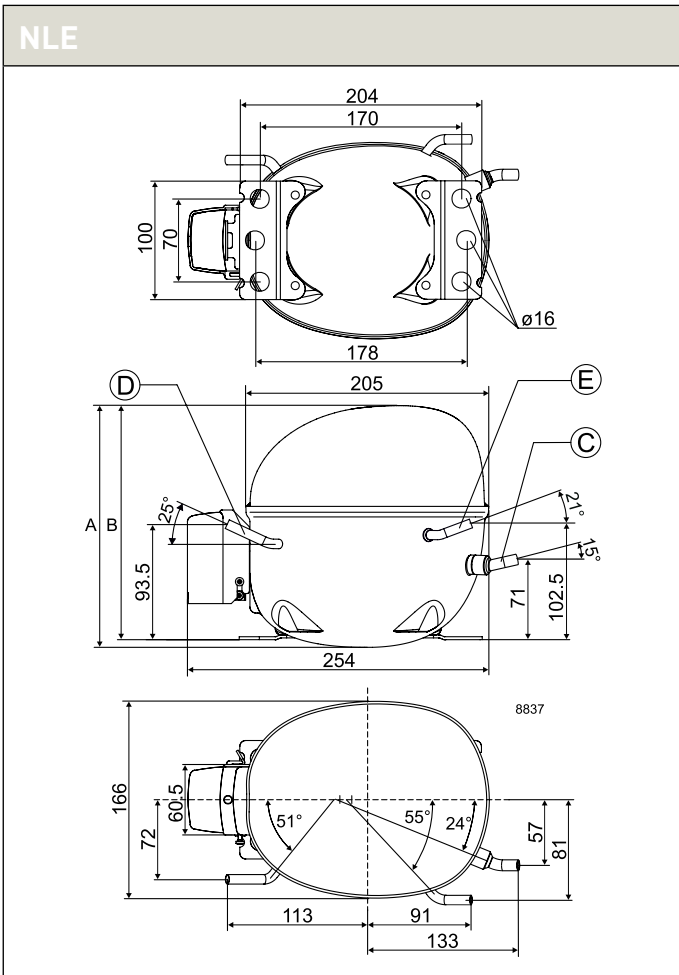
| Compressor | Code number | Application | ASHRAE Capacity [BTU/h] T _c =130°F, T _{liq} =90°F, T _{suc} =90°F Evaporating temperature [°F] | | | | | | ASHRAE | | | | | | ARI Capacity [BTU/h] T _c =120°F, T _{liq} =120°F, T _{suc} =40°F Evaporating temperature [°F] | | | | | | | |
|------------|-------------|-------------|--|------|------|------|----|----|----------------------------------|----------|---------|----------|----------------------------------|----------|--|------|------|------|----|----|--|--|
| | | | LBP rating point -10°F / 130°F | | | | | | MBP rating point 20°F / 130°F | | | | HBP rating point 45°F / 130°F | | | | | | | | | |
| | | | Cooling capacity | | EER | | | | Cooling capacity | | EER | | Cooling capacity | | EER | | | | | | | |
| | | | -31 | 5 | 23 | 32 | 50 | 59 | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | -31 | 5 | 23 | 32 | 50 | 59 | | |
| NLE8.0CNT | 105H6073 | L/MBP | 732 | 2215 | 3303 | 3968 | | | 1508 | 5.57 | 2775 | 7.52 | | | 650 | 1796 | 2625 | 3123 | | | | |
| NLE8.8CNT | 105H6088 | L/MBP | 849 | 2534 | 3717 | 4431 | | | 1746 | 5.57 | 3132 | 7.37 | | | 792 | 2026 | 2927 | 3468 | | | | |
| NLE10CNT | 105H6179 | L/MBP | 1112 | 3028 | 4430 | 5263 | | | 2100 | 5.86 | 3735 | 7.55 | | | 966 | 2425 | 3489 | 4112 | | | | |
| NLE11CNLT | 105H6109 | LBP | 1460 | 3381 | | | | | 2300 | 6.02 | | | | | 1127 | 2716 | | | | | | |
| NLE11MNT | 105H6199 | MBP | | 3362 | 4859 | 5756 | | | 2367 | 5.89 | 4103 | 7.45 | | | 2671 | 3825 | 4504 | | | | | |

R290 • 208-230 V • 60 Hz • N-Series • Electrical Equipment

| Compressor | Code number | LST (RSIR & RSCR) - refer to data sheet for more info | | | | | Run capacitor (RC) | | HST (CSIR & CSR) - * alt. cable lengths avail. | | | | LST/HST | |
|------------|-------------|---|-----------|---------------------------------------|-----------|-----------|--|----------------|--|-------------------|----------------|-------------|---------|--|
| | | PTC starting device | | PTC starting device with RC connector | | ePTC | optional or compulsory (refer to data sheet) | Starting relay | Starting capacitor | Starting device * | Starting kit * | Cord relief | Cover | |
| | | Spades | | Spades | | Spades | Spades | Spades | | Spades | | | | |
| | | 1/4 inch | 3/16 inch | 1/4 inch | 3/16 inch | 3/16 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 1/4 inch | 1/4 inch | | |
| NLE8.0CNT | 105H6073 | | | | | | | | | | | | | |
| NLE8.8CNT | 105H6088 | | | | | | | | | | | | | |
| NLE10CNT | 105H6179 | | | | | | | | | | | | | |
| NLE11CNLT | 105H6109 | | | | | | | | | | | | | |
| NLE11MNT | 105H6199 | | | | | | | | | | | | | |

Refrigerators = 1 | Freezers = 2 | Beverage coolers = 3 | Commercial freezers = 4 | Minibars = 5 | Ice cream cabinets = 6
 Water coolers = 7 | Heat pumps = 8 | Wine coolers = 9 | Display cabinets = 10 | Ice makers = 11

| ARI | | | | | | Power | Displacement | Voltage and frequencies [* dual frequency type with 50/60 Hz] | Compressor cooling cooling data sheet | Dimensions | | | | | | Application |
|-----------------------------------|-----------------|----------------------------------|-----------------|----------------------------------|-----------------|-------|--------------|--|--|------------------|------------------------------------|------|--------------|--------------|-----------------|-------------|
| LBP rating point -10°F / 120°F | | MBP rating point 20°F / 120°F | | HBP rating point 45°F / 120°F | | | | | | Height [inch] | Connectors location/I.D. [inch] | | | | | |
| Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | | | | | | A | B | Suction C | Process D | Dis-charge E | |
| 1249 | 4.71 | 2472 | 7.11 | | | 2/5 | 0.49 | 187-253 V, 60 Hz * | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | | 3 4 6 10 11 |
| 1435 | 4.68 | 2761 | 6.83 | | | 1/2 | 0.53 | 187-253 V, 60 Hz | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | | 3 4 6 10 11 |
| 1715 | 4.89 | 3295 | 7.02 | | | 3/5 | 0.62 | 187-253 V, 60 Hz * | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | | 3 4 6 10 11 |
| 1872 | 5.00 | | | | | 3/5 | 0.68 | 187-253 V, 60 Hz | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | | 4 6 10 |
| 1892 | 4.84 | 3614 | 6.86 | | | 3/5 | 0.68 | 187-253 V, 60 Hz | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | | 3 4 6 10 11 |



R290 • 208-230 V • 220-240 V • 60 Hz • S-Series

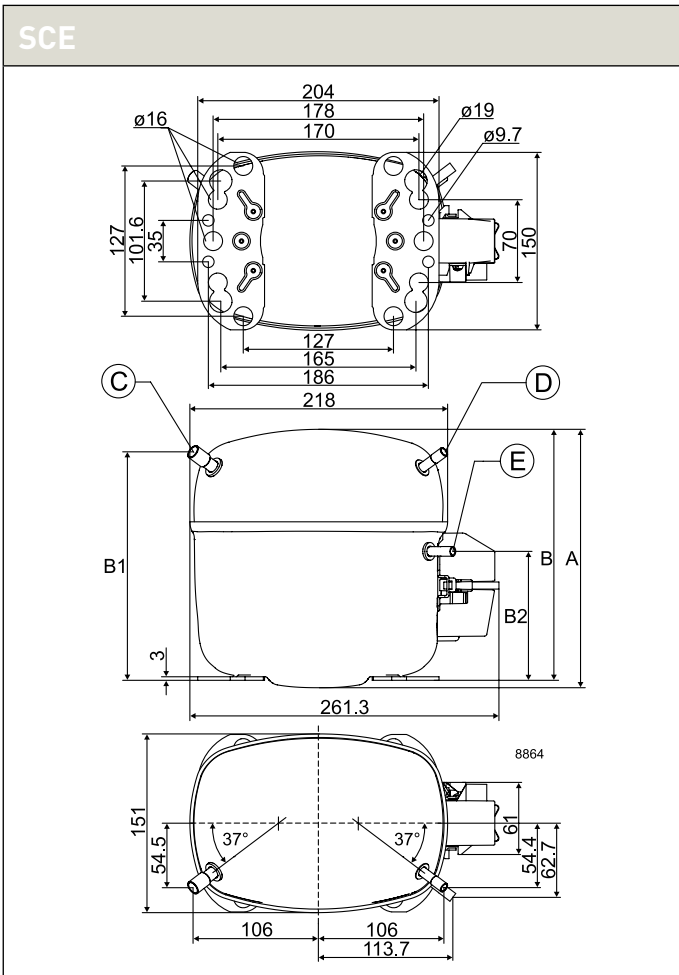
| Compressor | Code number | Application | ASHRAE Capacity [BTU/h] T _c =130°F, T _{liq} =90°F, T _{suc} =90°F Evaporating temperature [°F] | | | | | | ASHRAE | | | | | | ARI Capacity [BTU/h] T _c =120°F, T _{liq} =120°F, T _{suc} =40°F Evaporating temperature [°F] | | | | | |
|------------|-------------|-------------|--|------|------|------|----|----|----------------------------------|-----------------|-----------------------------|-----------------|----------------------------------|-----------------|--|------|------|------|----|----|
| | | | LBP rating point -10°F / 130°F | | | | | | MBP rating point 20°F / 130°F | | | | HBP rating point 45°F / 130°F | | | | | | | |
| | | | -31 | 5 | 23 | 32 | 50 | 59 | Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | -31 | 5 | 23 | 32 | 50 | 59 |
| SC18CNLX.2 | 104H8877 | LBP | 1559 | 4327 | 6220 | | | | 3142 | 4.96 | 5238 | 6.55 | | | 1351 | 3564 | 5129 | | | |
| SC21CNLX.2 | 104H8177 | LBP | 1945 | 5297 | 7512 | | | | 3880 | 4.95 | 6342 | 6.07 | | | 1713 | 4288 | 6089 | | | |
| SCE15CNLX | 104H8577 | LBP | 848 | 4132 | 6342 | | | | 2617 | 5.58 | 5317 | 7.74 | | | 893 | 3360 | 5020 | | | |
| SCE18CNLX | 104H8878 | LBP | 1016 | 4894 | 7506 | | | | 3099 | 5.71 | 6294 | 7.87 | | | 1067 | 3981 | 5944 | | | |
| SCE21CNLX | 104H8173 | LBP | 1794 | 5618 | 8480 | | | | 3754 | 5.62 | 7118 | 7.30 | | | 1591 | 4569 | 6765 | | | |
| SCE15MNX | 104H8579 | MBP | | 4166 | 6321 | 7600 | | | | | 5306 | 7.70 | | | | 3412 | 5022 | 5953 | | |
| SCE18MNX | 104H8879 | MBP | | 4883 | 7325 | 8770 | | | | | 6158 | 7.53 | | | | 3984 | 5804 | 6855 | | |

R290 • 208-230 V • 220-240 V • 60 Hz • S-Series • Electrical Equipment

| Compressor | Code number | LST (RSIR & RSCR) - refer to data sheet for more info | | | | | Run capacitor (RC) | | HST (CSIR & CSR) - * alt. cable lengths avail. | | | | LST/HST | |
|------------|-------------|---|-----------|---------------------------------------|-----------|-----------|--|----------------|--|-------------------|----------------|-------------|----------|--|
| | | PTC starting device | | PTC starting device with RC connector | | ePTC | optional or compulsory (refer to data sheet) | Starting relay | Starting capacitor | Starting device * | Starting kit * | Cord relief | Cover | |
| | | Spades | | Spades | | Spades | Spades | Spades | | Spades | | | | |
| | | 1/4 inch | 3/16 inch | 1/4 inch | 3/16 inch | 3/16 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 1/4 inch | 1/4 inch | | |
| SC18CNLX.2 | 104H8877 | | | | | | | | 117U5373 | 117-7039 | | 103N1004 | 103N2008 | |
| SC21CNLX.2 | 104H8177 | | | | | | | | 117U5373 | 117-7066 | | 103N1004 | 103N2008 | |
| SCE15CNLX | 104H8577 | | | | | | 117U7121 | | 117-7602 | 117U5373 | 117-7809 | | 117U1021 | |
| SCE18CNLX | 104H8878 | | | | | | 117U7121 | | 117-7602 | 117U5373 | 117-7809 | | 117U1021 | |
| SCE21CNLX | 104H8173 | | | | | | 117U7121 | | 117U7603 | 117U5373 | 117-7811 | | 117U1021 | |
| SCE15MNX | 104H8579 | | | | | | 117U7121 | | 117-7601 | 117U5373 | 117-7808 | | 117U1021 | |
| SCE18MNX | 104H8879 | | | | | | 117U7121 | | 117-7445 | 117U5373 | 117-7807 | | 117U1021 | |

Refrigerators = 1 | Freezers = 2 | Beverage coolers = 3 | Commercial freezers = 4 | Minibars = 5 | Ice cream cabinets = 6
 Water coolers = 7 | Heat pumps = 8 | Wine coolers = 9 | Display cabinets = 10 | Ice makers = 11

| ARI | | | | | | Power | Displacement | Voltage and frequencies [* dual frequency type with 50/60 Hz] | Compressor cooling cooling [refer-data sheet] | Dimensions | | | | | | Application | |
|-----------------------------------|----------|----------------------------------|----------|----------------------------------|----------|-------|--------------|--|---|------------------|-----|------------------------------------|---------|------------|------------|-----------------|------------------------------|
| LBP rating point -10°F / 120°F | | MBP rating point 20°F / 120°F | | HBP rating point 45°F / 120°F | | | | | | Height [inch] | | Connectors location/I.D. [inch] | | | | | alt. connectors available |
| Cooling capacity | EER | Cooling capacity | EER | Cooling capacity | EER | | | | | A | B | Suction | Process | Dis-charge | Oil cooler | | |
| [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | [HP] | [cu. inch] | | | | | | | | | | |
| 2586 | 4.12 | 4827 | 6.10 | | | 5/6 | 1.08 | 198-254 V, 60 Hz | F2 | 8.6 | 8.4 | 0.38 | 0.26 | 0.26 | | 4 6 | |
| 3156 | 4.10 | 5742 | 5.79 | | | 1 | 1.28 | 198-254 V, 60 Hz | F2 | 8.6 | 8.4 | 0.38 | 0.26 | 0.26 | | 4 | |
| 2216 | 4.66 | 4719 | 7.12 | | | 3/4 | 0.93 | 187-253 V, 60 Hz | F2 | 8.6 | 8.4 | 0.38 | 0.26 | 0.26 | | 4 6 | |
| 2625 | 4.75 | 5589 | 7.24 | | | 5/6 | 1.08 | 187-253 V, 60 Hz | F2 | 8.6 | 8.4 | 0.38 | 0.26 | 0.26 | X | 4 6 | |
| 3118 | 4.65 | 6362 | 6.82 | | | 1 | 1.28 | 187-253 V, 60 Hz | F2 | 8.6 | 8.4 | 0.38 | 0.26 | 0.26 | | 4 | |
| | | 4731 | 7.07 | | | 3/4 | 0.93 | 187-253 V, 60 Hz | F2 | 8.6 | 8.4 | 0.38 | 0.26 | 0.26 | | 3 7 10 11 | |
| | | 5476 | 6.95 | | | 5/6 | 1.08 | 187-253 V, 60 Hz | F2 | 8.6 | 8.4 | 0.38 | 0.26 | 0.26 | X | 3 7 10 11 | |



WITH MORE THAN 60 YEARS OF EXPERIENCE IN COMPRESSOR TECHNOLOGY AND HIGHLY DEDICATED EMPLOYEES, OUR FOCUS IS ON DEVELOPING AND

APPLYING ADVANCED COMPRESSOR TECHNOLOGIES TO ACHIEVE STANDARD SETTING PERFORMANCE FOR LEADING PRODUCTS AND BUSINESSES AROUND THE WORLD.

R134a

115 V | 60 Hz



| | |
|----------------|-------|
| P-Series | 68-69 |
| T-Series | 70-71 |
| N-Series..... | 72-75 |
| F-Series | 76-77 |
| S-Series | 78-79 |

Chemical formula

CH₂FCF₃

Typelabel

Typelabel stripe colour: Blue
Typelabel colour: Green

Applications

- LBP:** Low Back Pressure
- HBP:** High Back Pressure
- MBP:** Medium Back Pressure

Motor types

- RSIR:** Resistant Start Induction Run
- RSCR:** Resistant Start Capacitor Run
- CSIR:** Capacitor Start Induction Run
- CSR:** Capacitor Start Run

Compressor cooling

- S = Static cooling normally sufficient
- O = Oil cooling
- F₁ = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
- F₂ = Fan cooling 3.0 m/s necessary

Starting devices

LST: Low Starting Torque

LST is used with capillary tube control and pressure equalizing. (Pressure equalizing may exceed 10 minutes). The PTC starting device requires 5 minutes cooling before each start.

To fulfil the requirements of EN 60355-2-34 the protection screen 103N0476 must be applied to the PTC starting device.

HST: High Starting Torque

HST consisting of relay and starting capacitor is used for expansion valve control or for capillary tube control without pressure equalizing.

ePTC: Electronically controlled PTC

- Compressor restart possible after a few seconds
- Operational wattage loss reduced by 2 watt
- PTC protection screen not needed (surface temp. < 179.6 °F)
- Temperature resistant up to min. +140 °F

Test conditons

Electrical equipment being used is listed in our data sheets

1 Watt = 0.86 kcal/h

1 Watt = 3.41 Btu/h





R134a • 115 V • 60 Hz • P-Series

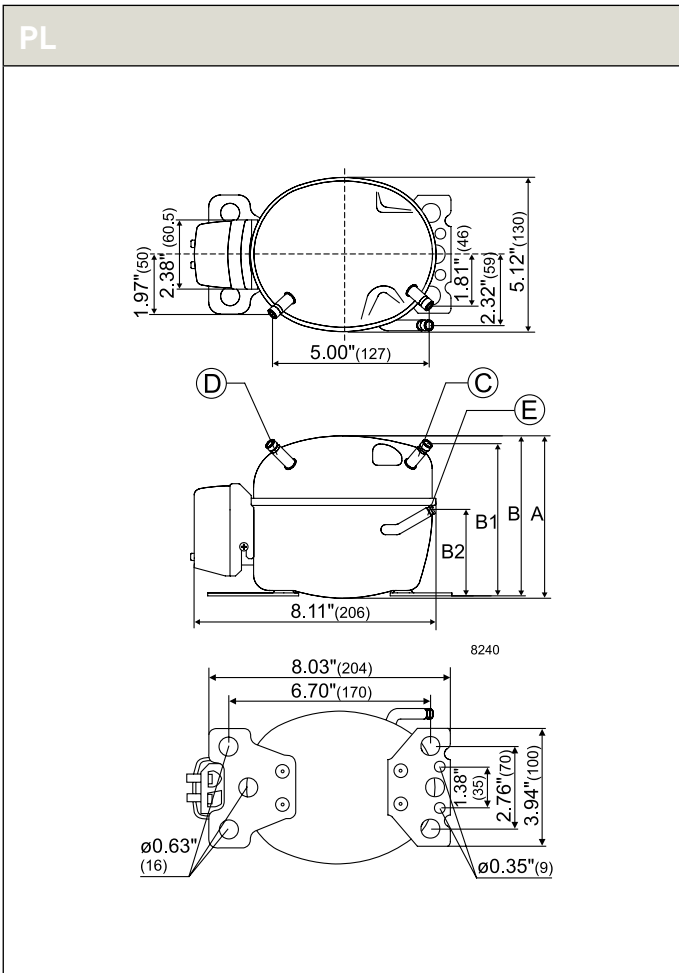
| Compressor | Code number | Application | ASHRAE Capacity [BTU/h] T _c =130°F, T _{liq} =90°F, T _{suc} =90°F Evaporating temperature [°F] | | | | | | ASHRAE | | | | | | ARI Capacity [BTU/h] T _c =120°F, T _{liq} =120°F, T _{suc} =40°F Evaporating temperature [°F] | | | | | | | |
|------------|-------------|-------------|--|-----|-----|-----|----|----|----------------------------------|----------|---------|----------|----------------------------------|----------|--|----------|-----|-----|-----|-----|----|----|
| | | | LBP rating point -10°F / 130°F | | | | | | MBP rating point 20°F / 130°F | | | | HBP rating point 45°F / 130°F | | | | | | | | | |
| | | | Cooling capacity | | EER | | | | Cooling capacity | | EER | | Cooling capacity | | EER | | | | | | | |
| | | | -31 | 5 | 23 | 32 | 50 | 59 | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | -31 | 5 | 23 | 32 | 50 | 59 |
| PL30F | 101G9100 | L/M/HBP | | 187 | 329 | 422 | | | 103 | 2.03 | 270 | 4.07 | 522 | 6.41 | | 158 | 272 | 345 | 529 | 642 | | |
| PL50F | 101G9202 | L/MBP | | 290 | 472 | 585 | | | 175 | 2.70 | 391 | 4.42 | | | 237 | 381 | 469 | | | | | |

R134a • 115 V • 60 Hz • P-Series • Electrical Equipment

| Compressor | Code number | LST (RSIR & RSCR) - refer to data sheet for more info | | | | | Run capacitor (RC) | | HST (CSIR & CSR) - * alt. cable lengths avail. | | | | LST/HST | |
|------------|-------------|---|-----------|---------------------------------------|-----------|----------------------|--|-----------|--|--------------------|-------------------|----------------|-------------|----------|
| | | PTC starting device | | PTC starting device with RC connector | | Protector (external) | optional or compulsory (refer to data sheet) | | Starting relay | Starting capacitor | Starting device * | Starting kit * | Cord relief | Cover |
| | | Spades | | Spades | | Spades | Spades | | Spades | | Spades | | | |
| | | 1/4 inch | 3/16 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 1/4 inch | 1/4 inch | | |
| PL30F | 101G9100 | 103N0026 | 103N0023 | | | | | | 117U6000 | 117U5015 | | | 103N1010 | 103N0492 |
| PL50F | 101G9202 | 103N0026 | 103N0023 | | | | | | 117U6000 | 117U5015 | | | 103N1010 | 103N0492 |

Refrigerators = 1 | Freezers = 2 | Beverage coolers = 3 | Commercial freezers = 4 | Minibars = 5 | Ice cream cabinets = 6
 Water coolers = 7 | Heat pumps = 8 | Wine coolers = 9 | Display cabinets = 10 | Ice makers = 11

| ARI | | | | | | Power | Displacement | Voltage and frequencies [* dual frequency type with 50/60 Hz] | Compressor cooling [refer-data sheet] | Dimensions | | | | | | Application | |
|-----------------------------------|----------|----------------------------------|----------|----------------------------------|----------|-------|--------------|--|--|------------------|------------------------------------|---------|---------|------------|------------|-------------|---------------------------|
| LBP rating point -10°F / 120°F | | MBP rating point 20°F / 120°F | | HBP rating point 45°F / 120°F | | | | | | Height [inch] | Connectors location/I.D. [inch] | | | | | | |
| Cooling capacity | EER | Cooling capacity | EER | Cooling capacity | EER | | | | | A | B | Suction | Process | Dis-charge | Oil cooler | | alt. connectors available |
| [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | | | | | [HP] | [cu. inch] | | | | | | |
| 89 | 1.77 | 250 | 3.79 | 472 | 5.91 | 1/12 | 0.09 | 90-127 V, 60 Hz * | S | 5.3 | 5.2 | 0.26 | 0.26 | 0.20 | | 1 5 | |
| 146 | 2.22 | 354 | 3.98 | | | 1/12 | 0.12 | 103-127 V, 60 Hz | S | 5.3 | 5.2 | 0.26 | 0.26 | 0.20 | | 1 5 | |



R134a • 115 V • 60 Hz • T-Series

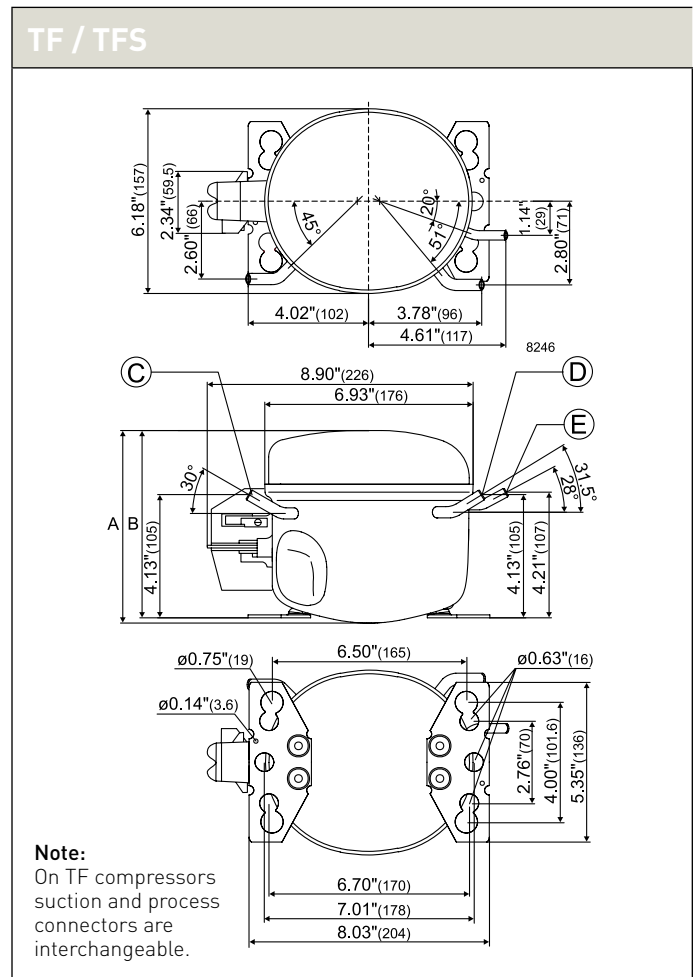
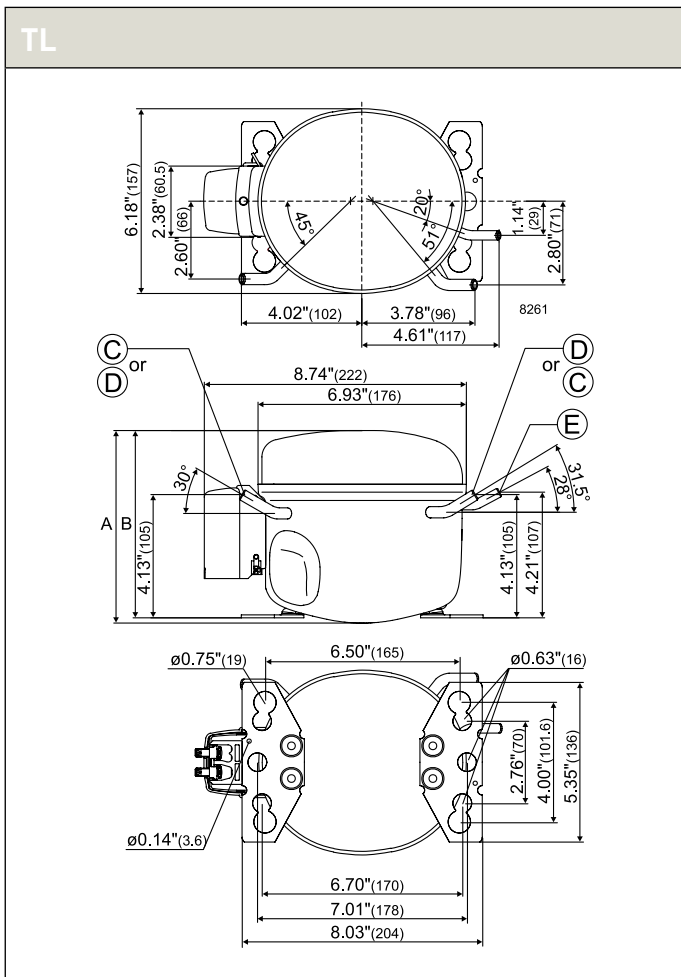
| Compressor | Code number | Application | ASHRAE Capacity [BTU/h] T _c =130°F, T _{liq} =90°F, T _{suc} =90°F Evaporating temperature [°F] | | | | | | ASHRAE | | | | | | ARI Capacity [BTU/h] T _c =120°F, T _{liq} =120°F, T _{suc} =40°F Evaporating temperature [°F] | | | | | |
|------------|-------------|-------------|--|-----|------|------|----|-----|----------------------------------|-----------------|-----------------------------|-----------------|----------------------------------|-----------------|--|-----|------|------|------|----|
| | | | LBP rating point -10°F / 130°F | | | | | | MBP rating point 20°F / 130°F | | | | HBP rating point 45°F / 130°F | | | | | | | |
| | | | -31 | 5 | 23 | 32 | 50 | 59 | Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | -31 | 5 | 23 | 32 | 50 | 59 |
| TF3.5F | 102G3304 | LBP | 128 | 502 | | | | 305 | 3.26 | | | | | 120 | 416 | | | | | |
| TFS4F | 102G3431 | LBP | 149 | 600 | | | | 356 | 3.66 | | | | | 129 | 495 | | | | | |
| TFS4.5FT | 102G3432 | L/MBP | 238 | 760 | 1227 | 1514 | | 477 | 3.75 | 1018 | 5.17 | | | 210 | 624 | 975 | 1187 | | | |
| TFS4.5FT | 102G3433 | LBP | 238 | 760 | | | | 477 | 3.75 | | | | | 210 | 624 | | | | | |
| TL2.5F | 102G3206 | LBP | | 339 | 569 | | | 202 | 3.12 | 470 | 4.53 | | | | 288 | 472 | | | | |
| TL3F | 102G3300 | LBP | | 411 | 693 | | | 253 | 3.29 | 571 | 4.58 | | | | 346 | 573 | | | | |
| TL2.5G | 102G3255 | L/M/HBP | | 336 | 610 | 788 | | 190 | 2.65 | 498 | 4.91 | 976 | 7.46 | | 292 | 502 | 634 | 955 | 1142 | |
| TL4G | 102G3460 | L/M/HBP | | 522 | 895 | 1135 | | 306 | 3.19 | 736 | 5.00 | 1383 | 7.02 | | 441 | 739 | 924 | 1372 | 1640 | |

R134a • 115 V • 60 Hz • T-Series • Electrical Equipment

| Compressor | Code number | LST (RSIR & RSCR) - refer to data sheet for more info | | | | | Run capacitor (RC) | | HST (CSIR & CSR) - * alt. cable lengths avail. | | | | LST/HST | |
|------------|-------------|---|-----------|---------------------------------------|-----------|----------------------|--|----------------|--|-------------------|----------------|-------------|----------|----------|
| | | PTC starting device | | PTC starting device with RC connector | | Protector (external) | optional or compulsory (refer to data sheet) | Starting relay | Starting capacitor | Starting device * | Starting kit * | Cord relief | Cover | |
| | | Spades | | Spades | | Spades | Spades | Spades | | Spades | | | | |
| | | 1/4 inch | 3/16 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 1/4 inch | 1/4 inch | | |
| TF3.5F | 102G3304 | | | | | | | | | | | | 117U0349 | 117U1021 |
| TFS4F | 102G3431 | | | | | | | | | | | | 117U0349 | 117U1021 |
| TFS4.5FT | 102G3432 | | | | | | | 117U4126 | 117U5022 | | | | 117U0349 | 117U1021 |
| TFS4.5FT | 102G3433 | | | | | | | | | | | | 117U0349 | 117U1021 |
| TL2.5F | 102G3206 | 103N0026 | 103N0023 | | | | | | | | | | 103N1010 | 103N2011 |
| TL3F | 102G3300 | 103N0026 | 103N0023 | | | | | | | | | | 103N1010 | 103N2011 |
| TL2.5G | 102G3255 | 103N0026 | 103N0023 | | | | | | | | | | 103N1010 | 103N2011 |
| TL4G | 102G3460 | 103N0026 | 103N0023 | | | | | 117U6003 | 117U5023 | | | | 103N1010 | 103N2011 |

Refrigerators = 1 | Freezers = 2 | Beverage coolers = 3 | Commercial freezers = 4 | Minibars = 5 | Ice cream cabinets = 6
 Water coolers = 7 | Heat pumps = 8 | Wine coolers = 9 | Display cabinets = 10 | Ice makers = 11

| ARI | | | | | | Power | Displacement | Voltage and frequencies [* dual frequency type with 50/60 Hz] | Compressor cooling [refer-data sheet] | Dimensions | | | | | | Application |
|-----------------------------------|------|----------------------------------|------|----------------------------------|------|-------|--------------|--|--|------------------|------------------------------------|------|--------------|--------------|-----------------|-------------|
| LBP rating point -10°F / 120°F | | MBP rating point 20°F / 120°F | | HBP rating point 45°F / 120°F | | | | | | Height [inch] | Connectors location/I.D. [inch] | | | | | |
| Cooling capacity [BTU/h] | EER | Cooling capacity [BTU/h] | EER | Cooling capacity [BTU/h] | EER | | | | | | A | B | Suction C | Process D | Dis-charge E | |
| 261 | 2.77 | | | | | 1/12 | 0.22 | 95-135 V, 60 Hz | S | 6.8 | 6.7 | 0.26 | 0.26 | 0.20 | X | 1 5 |
| 303 | 3.03 | | | | | 1/10 | 0.24 | 95-135 V, 60 Hz | S | 6.8 | 6.7 | 0.26 | 0.26 | 0.20 | X | 1 5 |
| 404 | 3.18 | 910 | 4.70 | | | 1/8 | 0.28 | 95-135 V, 60 Hz | S | 6.8 | 6.7 | 0.26 | 0.26 | 0.19 | X | 1 2 |
| 404 | 3.18 | | | | | 1/8 | 0.28 | 95-135 V, 60 Hz | S | 6.8 | 6.7 | 0.26 | 0.26 | 0.19 | X | 1 2 |
| 174 | 2.61 | 438 | 4.30 | | | 1/12 | 0.16 | 103-127 V, 60 Hz | S | 6.4 | 6.3 | 0.26 | 0.26 | 0.20 | X | 1 7 |
| 215 | 2.73 | 529 | 4.34 | | | 1/12 | 0.19 | 103-127 V, 60 Hz | S | 6.4 | 6.3 | 0.26 | 0.26 | 0.20 | | 1 5 |
| 177 | 2.47 | 462 | 4.69 | 858 | 6.84 | 1/12 | 0.16 | 103-127 V, 60 Hz | S | 6.4 | 6.3 | 0.26 | 0.26 | 0.20 | X | 3 |
| 260 | 2.68 | 683 | 4.75 | 1236 | 6.53 | 1/8 | 0.24 | 90-135 V, 60 Hz * | S | 6.8 | 6.7 | 0.26 | 0.26 | 0.20 | X | 3 |



R134a • 115 V • 60 Hz • N-Series

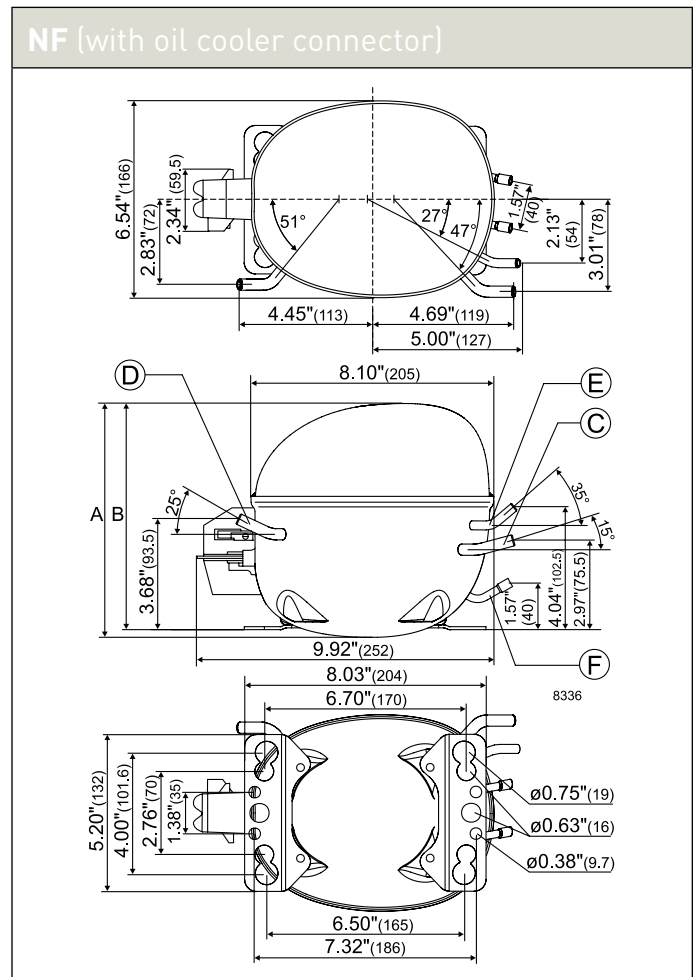
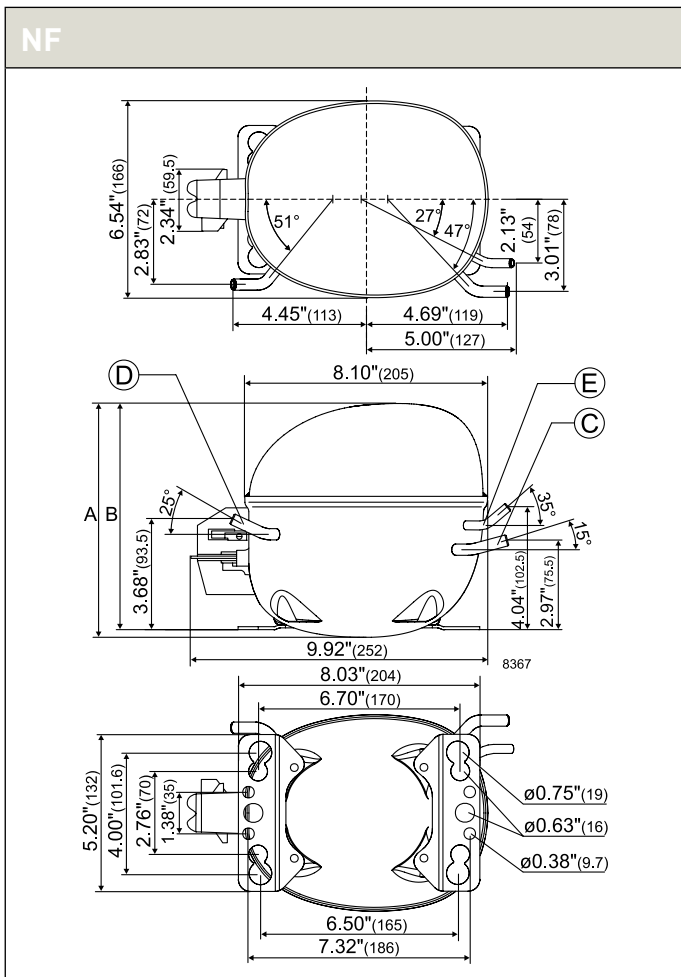
| Compressor | Code number | Application | ASHRAE Capacity [BTU/h] T _c =130°F, T _{liq} =90°F, T _{suc} =90°F Evaporating temperature [°F] | | | | | | ASHRAE | | | | | | ARI Capacity [BTU/h] T _c =120°F, T _{liq} =120°F, T _{suc} =40°F Evaporating temperature [°F] | | | | | | | | | |
|------------|-------------|-------------|--|------|------|------|----|----|----------------------------------|----------|---------|----------|----------------------------------|----------|--|---|----|----|------|------|------|------|--|--|
| | | | LBP rating point -10°F / 130°F | | | | | | MBP rating point 20°F / 130°F | | | | HBP rating point 45°F / 130°F | | | | | | | | | | | |
| | | | Cooling capacity | | EER | | | | Cooling capacity | | EER | | Cooling capacity | | EER | | | | | | | | | |
| | | | -31 | 5 | 23 | 32 | 50 | 59 | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | -31 | 5 | 23 | 32 | 50 | 59 | | | | |
| NF6FK | 105G5628 | L/MBP | 270 | 1054 | 1681 | 2079 | | | 668 | 3.88 | 1396 | 5.38 | | | | | | | 244 | 863 | 1358 | 1668 | | |
| NF6FK | 105G5629 | L/MBP | 270 | 1054 | 1681 | 2079 | | | 668 | 3.88 | 1396 | 5.38 | | | | | | | 244 | 863 | 1358 | 1668 | | |
| NF6FK | 105G5645 | L/MBP | 270 | 1054 | 1681 | 2079 | | | 668 | 3.88 | 1396 | 5.38 | | | | | | | 244 | 863 | 1358 | 1668 | | |
| NF7FK | 105G5745 | L/MBP | 383 | 1275 | 2002 | 2468 | | | 834 | 4.09 | 1665 | 5.48 | | | | | | | 324 | 1028 | 1601 | 1963 | | |
| NF7FK | 105G5728 | L/MBP | 383 | 1275 | 2002 | 2468 | | | 834 | 4.09 | 1665 | 5.48 | | | | | | | 324 | 1028 | 1601 | 1963 | | |
| NF5.5FX | 105G5623 | L/MBP | 281 | 1098 | 1751 | 2165 | | | 696 | 4.12 | 1454 | 5.71 | | | | | | | 254 | 899 | 1415 | 1737 | | |
| NF5.5FX | 105G5625 | L/MBP | 281 | 1098 | 1751 | 2165 | | | 696 | 4.12 | 1454 | 5.71 | | | | | | | 254 | 899 | 1415 | 1737 | | |
| NF7FX | 105G5723 | L/MBP | 395 | 1314 | 2064 | 2545 | | | 860 | 4.00 | 1717 | 5.54 | | | | | | | 334 | 1059 | 1651 | 2024 | | |
| NF7FX | 105G5724 | L/MBP | 395 | 1314 | 2064 | 2545 | | | 860 | 4.00 | 1717 | 5.54 | | | | | | | 334 | 1059 | 1651 | 2024 | | |
| NF7FX | 105G5733 | L/MBP | 395 | 1314 | 2064 | 2545 | | | 860 | 4.00 | 1717 | 5.54 | | | | | | | 334 | 1059 | 1651 | 2024 | | |
| NF7FX | 105G5763 | L/MBP | 395 | 1314 | 2064 | 2545 | | | 860 | 4.00 | 1717 | 5.54 | | | | | | | 334 | 1059 | 1651 | 2024 | | |
| NF7FX | 105G5744 | L/MBP | 395 | 1314 | 2064 | 2545 | | | 860 | 4.00 | 1717 | 5.54 | | | | | | | 334 | 1059 | 1651 | 2024 | | |
| NF9FX | 105G5920 | L/MBP | | 1454 | 2316 | 2864 | | | 937 | 3.83 | 1923 | 5.54 | | | | | | | 1177 | 1849 | 2268 | | | |
| NF9FX | 105G5953 | L/MBP | | 1454 | 2316 | 2864 | | | 937 | 3.83 | 1923 | 5.54 | | | | | | | 1177 | 1849 | 2268 | | | |
| NF10FX | 105G5941 | L/MBP | | 1625 | 2577 | 3184 | | | 1048 | 4.01 | 2140 | 5.48 | | | | | | | 1300 | 2058 | 2534 | | | |
| NF10FX | 105G5957 | L/MBP | | 1625 | 2577 | 3184 | | | 1048 | 4.01 | 2140 | 5.48 | | | | | | | 1300 | 2058 | 2534 | | | |
| NF10FX | 105G5946 | L/MBP | | 1625 | 2577 | 3184 | | | 1048 | 4.01 | 2140 | 5.48 | | | | | | | 1300 | 2058 | 2534 | | | |
| NF10FX | 105G5952 | L/MBP | | 1625 | 2577 | 3184 | | | 1048 | 4.01 | 2140 | 5.48 | | | | | | | 1300 | 2058 | 2534 | | | |
| NF11FX | 105G5945 | MBP | 477 | 1726 | 2759 | 3419 | | | 1100 | 3.72 | 2290 | 5.19 | | | | | | | 387 | 1383 | 2206 | 2723 | | |
| NF11FX | 105G5951 | MBP | 477 | 1726 | 2759 | 3419 | | | 1100 | 3.72 | 2290 | 5.19 | | | | | | | 387 | 1383 | 2206 | 2723 | | |
| NF11FX | 105G5958 | MBP | 477 | 1726 | 2759 | 3419 | | | 1100 | 3.72 | 2290 | 5.19 | | | | | | | 387 | 1383 | 2206 | 2723 | | |

R134a • 115 V • 60 Hz • N-Series • Electrical Equipment

| Compressor * pre-assembled start equipment | Code number | LST (RSIR & RSCR) - refer to data sheet for more info | | | | | Run capacitor (RC) | | HST (CSIR & CSR) - * alt. cable lengths avail. | | | | LST/HST | | |
|---|-------------|---|-----------|---------------------------------------|-----------|----------------------|--|----------------|--|-------------------|----------------|-------------|---------|----------|----------|
| | | PTC starting device | | PTC starting device with RC connector | | Protector (external) | optional or compulsory (refer to data sheet) | Starting relay | Starting capacitor | Starting device * | Starting kit * | Cord relief | Cover | | |
| | | Spades | | Spades | | Spades | Spades | Spades | | Spades | | | | | |
| | | 1/4 inch | 3/16 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 1/4 inch | | | 1/4 inch | |
| NF6FK | 105G5628 | | | | | | | | | | | | | 117U0349 | 117U1021 |
| NF6FK | 105G5629 | | | | | | | | | | | | | 117U0349 | 117U1021 |
| NF6FK | 105G5645 | | | | | | | | | | | | | 117U0349 | 117U1021 |
| NF7FK * | 105G5745 | | | | | | | | | | | | | 117U0349 | 117U1021 |
| NF7FK | 105G5728 | | | | | | | | | | | | | 117U0349 | 117U1021 |
| NF5.5FX | 105G5623 | | | | | | | | | | | | | 117U0349 | 117U1021 |
| NF5.5FX * | 105G5625 | | | | | | | | | | | | | 117U0349 | 117U1021 |
| NF7FX | 105G5723 | | | | | | | | | | | | | 117U0349 | 117U1021 |
| NF7FX | 105G5724 | | | | | | | | | | | | | 117U0349 | 117U1021 |
| NF7FX | 105G5733 | | | | | | | | | | | | | 117U0349 | 117U1021 |
| NF7FX * | 105G5763 | | | | | | | | | | | | | 117U0349 | 117U1021 |
| NF7FX * | 105G5744 | | | | | | | | | | | | | 117U0349 | 117U1021 |
| NF9FX | 105G5920 | | | | | | | | | | | | | 117U0349 | 117U1021 |
| NF9FX * | 105G5953 | | | | | | | | | | | | | 117U0349 | 117U1021 |
| NF10FX | 105G5941 | | | | | | | | | | | | | 117U0349 | 117U1021 |
| NF10FX | 105G5957 | | | | | | | | | | | | | 117U0349 | 117U1021 |
| NF10FX | 105G5946 | | | | | | | | | | | | | 117U0349 | 117U1021 |
| NF10FX | 105G5952 | | | | | | | | | | | | | 117U0349 | 117U1021 |
| NF11FX | 105G5945 | | | | | | | | | | | | | 117U0349 | 117U1021 |
| NF11FX | 105G5951 | | | | | | | | | | | | | 117U0349 | 117U1021 |
| NF11FX | 105G5958 | | | | | | | | | | | | | 117U0349 | 117U1021 |

Refrigerators = 1 | Freezers = 2 | Beverage coolers = 3 | Commercial freezers = 4 | Minibars = 5 | Ice cream cabinets = 6
 Water coolers = 7 | Heat pumps = 8 | Wine coolers = 9 | Display cabinets = 10 | Ice makers = 11

| ARI | | | | | | Power | Displacement | Voltage and frequencies [* dual frequency type with 50/60 Hz] | Compressor cooling [refer data sheet] | Dimensions | | | | | | Application |
|-----------------------------------|------|----------------------------------|------|----------------------------------|-----|-------|--------------|--|--|---------------|-----|---------------------------------|-----------|--------------|--------------|-------------|
| LBP rating point -10°F / 120°F | | MBP rating point 20°F / 120°F | | HBP rating point 45°F / 120°F | | | | | | Height [inch] | | Connectors location/I.D. [inch] | | | | |
| Cooling capacity [BTU/h] | EER | Cooling capacity [BTU/h] | EER | Cooling capacity [BTU/h] | EER | | | | | A | B | Suction C | Process D | Dis-charge E | Oil cooler F | |
| 557 | 3.24 | 1265 | 5.04 | | | 1/4 | 0.37 | 95-135 V, 60 Hz | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 2 |
| 557 | 3.24 | 1265 | 5.04 | | | 1/4 | 0.37 | 95-135 V, 60 Hz | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 2 |
| 557 | 3.24 | 1265 | 5.04 | | | 1/4 | 0.37 | 95-135 V, 60 Hz | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 2 |
| 677 | 3.44 | 1492 | 5.11 | | | 1/4 | 0.44 | 95-135 V, 60 Hz | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 2 |
| 677 | 3.44 | 1492 | 5.11 | | | 1/4 | 0.44 | 95-135 V, 60 Hz | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 2 |
| 580 | 3.44 | 1318 | 5.35 | | | 1/4 | 0.37 | 95-135 V, 60 Hz | F2 | 7.8 | 7.5 | 0.32 | 0.26 | 0.26 | X | 3 |
| 580 | 3.44 | 1318 | 5.35 | | | 1/4 | 0.37 | 95-135 V, 60 Hz | F2 | 7.8 | 7.5 | 0.32 | 0.26 | 0.26 | X | 3 |
| 698 | 3.35 | 1538 | 5.15 | | | 3/10 | 0.44 | 95-135 V, 60 Hz | F2 | 7.8 | 7.5 | 0.32 | 0.26 | 0.26 | X | 3 |
| 698 | 3.35 | 1538 | 5.15 | | | 3/10 | 0.44 | 95-135 V, 60 Hz | F2 | 7.8 | 7.5 | 0.32 | 0.26 | 0.26 | X | 3 |
| 698 | 3.35 | 1538 | 5.15 | | | 3/10 | 0.44 | 95-135 V, 60 Hz | F2 | 7.8 | 7.5 | 0.32 | 0.26 | 0.26 | 0.26 X | 3 |
| 698 | 3.35 | 1538 | 5.15 | | | 3/10 | 0.44 | 95-135 V, 60 Hz | F2 | 7.8 | 7.5 | 0.32 | 0.26 | 0.26 | X | 3 |
| 698 | 3.35 | 1538 | 5.15 | | | 3/10 | 0.44 | 95-135 V, 60 Hz | F2 | 7.8 | 7.5 | 0.32 | 0.26 | 0.26 | X | 3 |
| 767 | 3.17 | 1722 | 5.09 | | | 3/10 | 0.51 | 95-135 V, 60 Hz | F2 | 7.8 | 7.5 | 0.32 | 0.26 | 0.26 | X | 3 |
| 767 | 3.17 | 1722 | 5.09 | | | 3/10 | 0.51 | 95-135 V, 60 Hz | F2 | 7.8 | 7.5 | 0.32 | 0.26 | 0.26 | X | 3 |
| 837 | 3.25 | 1914 | 5.04 | | | 1/3 | 0.62 | 95-135 V, 60 Hz | F2 | 7.8 | 7.5 | 0.32 | 0.26 | 0.26 | X | 3 |
| 837 | 3.25 | 1914 | 5.04 | | | 1/3 | 0.62 | 95-135 V, 60 Hz | F2 | 7.8 | 7.5 | 0.32 | 0.26 | 0.26 | X | 3 |
| 837 | 3.25 | 1914 | 5.04 | | | 1/3 | 0.62 | 95-135 V, 60 Hz | F2 | 7.8 | 7.5 | 0.32 | 0.26 | 0.26 | X | 3 |
| 837 | 3.25 | 1914 | 5.04 | | | 1/3 | 0.62 | 95-135 V, 60 Hz | F2 | 7.8 | 7.5 | 0.32 | 0.26 | 0.26 | X | 3 |
| 881 | 3.02 | 2050 | 4.78 | | | 3/8 | 0.68 | 95-135 V, 60 Hz | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 3 |
| 881 | 3.02 | 2050 | 4.78 | | | 3/8 | 0.68 | 95-135 V, 60 Hz | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 3 |
| 881 | 3.02 | 2050 | 4.78 | | | 3/8 | 0.68 | 95-135 V, 60 Hz | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 3 |



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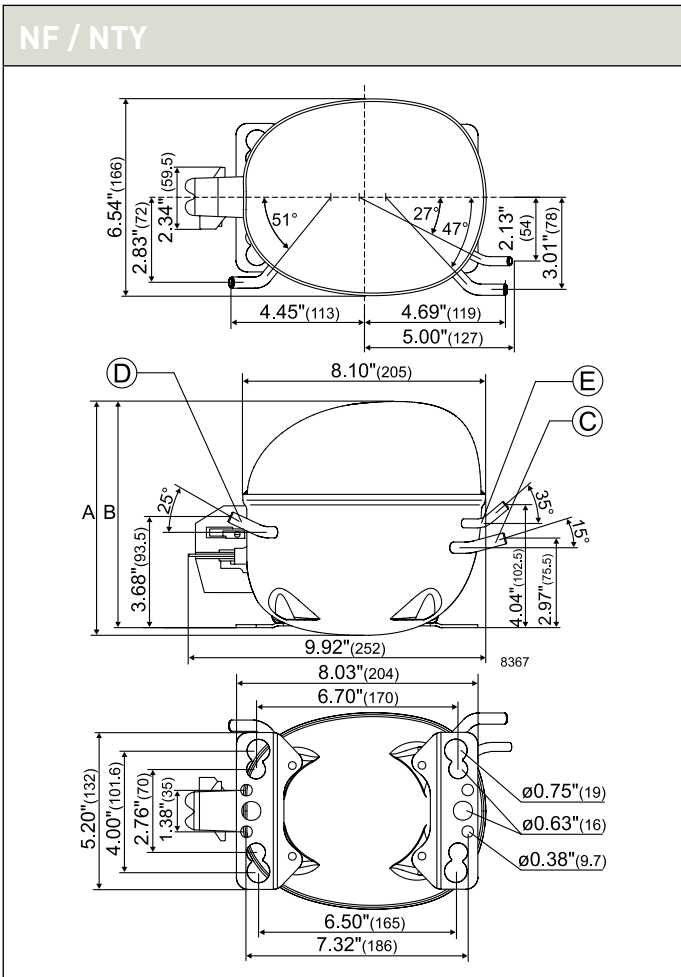
| Compressor | Code number | Application | ASHRAE Capacity [BTU/h] T _c =130°F, T _{liq} =90°F, T _{suc} =90°F Evaporating temperature [°F] | | | | | | ASHRAE | | | | | | ARI Capacity [BTU/h] T _c =120°F, T _{liq} =120°F, T _{suc} =40°F Evaporating temperature [°F] | | | | | | | |
|------------|-------------|-------------|--|------|------|------|----|----|----------------------------------|----------|---------|----------|----------------------------------|----------|--|---|----|------|------|------|------|--|
| | | | LBP rating point -10°F / 130°F | | | | | | MBP rating point 20°F / 130°F | | | | HBP rating point 45°F / 130°F | | | | | | | | | |
| | | | Cooling capacity | | EER | | | | Cooling capacity | | EER | | Cooling capacity | | EER | | | | | | | |
| | | | -31 | 5 | 23 | 32 | 50 | 59 | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | -31 | 5 | 23 | 32 | 50 | 59 | | |
| NF6.1FX.2 | 105G5631 | L/MBP | 293 | 1161 | 1873 | 2315 | | | 721 | 4.06 | 1554 | 6.09 | | | | | | 257 | 956 | 1504 | 1837 | |
| NF6.1FX.2 | 105G5638 | L/MBP | 293 | 1161 | 1873 | 2315 | | | 721 | 4.06 | 1554 | 6.09 | | | | | | 257 | 956 | 1504 | 1837 | |
| NF6.1FX.2 | 105G5639 | L/MBP | 293 | 1161 | 1873 | 2315 | | | 721 | 4.06 | 1554 | 6.09 | | | | | | 257 | 956 | 1504 | 1837 | |
| NF7.3FX.2 | 105G5719 | L/MBP | 387 | 1413 | 2254 | 2776 | | | 893 | 3.95 | 1872 | 5.81 | | | | | | 334 | 1160 | 1807 | 2201 | |
| NF7.3FX.2 | 105G5722 | L/MBP | 387 | 1413 | 2254 | 2776 | | | 893 | 3.95 | 1872 | 5.81 | | | | | | 334 | 1160 | 1807 | 2201 | |
| NF7.3FX.2 | 105G5737 | L/MBP | 387 | 1413 | 2254 | 2776 | | | 893 | 3.95 | 1872 | 5.81 | | | | | | 334 | 1160 | 1807 | 2201 | |
| NF8.4FX.2 | 105G5913 | L/MBP | | 1613 | 2553 | 3138 | | | 1031 | 4.16 | 2123 | 5.88 | | | | | | 1322 | 2046 | 2485 | | |
| NF8.4FX.2 | 105G5918 | L/MBP | | 1613 | 2553 | 3138 | | | 1031 | 4.16 | 2123 | 5.88 | | | | | | 1322 | 2046 | 2485 | | |
| NF8.4FX.2 | 105G5955 | L/MBP | | 1613 | 2553 | 3138 | | | 1031 | 4.16 | 2123 | 5.88 | | | | | | 1322 | 2046 | 2485 | | |
| NF11FX.2 | 105G5914 | MBP | | 2054 | 3269 | 4025 | | | | | 2717 | 5.62 | | | | | | 1686 | 2621 | 3190 | | |
| NF11FX.2 | 105G5915 | MBP | | 2054 | 3269 | 4025 | | | | | 2717 | 5.62 | | | | | | 1686 | 2621 | 3190 | | |
| NF11FX.2 | 105G5916 | MBP | | 2054 | 3269 | 4025 | | | | | 2717 | 5.62 | | | | | | 1686 | 2621 | 3190 | | |
| NF11FX.2 | 105G5954 | MBP | | 2054 | 3269 | 4025 | | | | | 2717 | 5.62 | | | | | | 1686 | 2621 | 3190 | | |
| NTY7FK | 105G5720 | LBP | 479 | 1365 | | | | | 886 | 5.25 | | | | | | | | 380 | 1112 | | | |

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| Compressor | Code number | LST (RSIR & RSCR) - refer to data sheet for more info | | | | | Run capacitor (RC) | | HST (CSIR & CSR) - * alt. cable lengths avail. | | | | LST/HST | |
|------------|-------------|---|-----------|---------------------------------------|-----------|----------------------|--|----------------|--|-------------------|----------------|-------------|----------|----------|
| | | PTC starting device | | PTC starting device with RC connector | | Protector (external) | optional or compulsory (refer to data sheet) | Starting relay | Starting capacitor | Starting device * | Starting kit * | Cord relief | Cover | |
| | | Spades | | Spades | | Spades | Spades | Spades | | Spades | | | | |
| | | 1/4 inch | 3/16 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 1/4 inch | 1/4 inch | | |
| NF6.1FX.2 | 105G5631 | | | | | | | | 117U4127 | 117U5025 | | | 117U0349 | 117U1021 |
| NF6.1FX.2 | 105G5638 | | | | | | | | 117U4127 | 117U5025 | | | 117U0349 | 117U1021 |
| NF6.1FX.2 | 105G5639 | | | | | | | | 117U4127 | 117U5025 | | | 117U0349 | 117U1021 |
| NF7.3FX.2 | 105G5719 | | | | | | | | 117U4061 | 117U5025 | | | 117U0349 | 117U1021 |
| NF7.3FX.2 | 105G5722 | | | | | | | | 117U4061 | 117U5025 | | | 117U0349 | 117U1021 |
| NF7.3FX.2 | 105G5737 | | | | | | | | 117U4061 | 117U5025 | | | 117U0349 | 117U1021 |
| NF8.4FX.2 | 105G5913 | | | | | | | | 117U4129 | 117U5025 | | | 117U0349 | 117U1021 |
| NF8.4FX.2 | 105G5918 | | | | | | | | 117U4129 | 117U5025 | | | 117U0349 | 117U1021 |
| NF8.4FX.2 | 105G5955 | | | | | | | | 117U4129 | 117U5025 | | | 117U0349 | 117U1021 |
| NF11FX.2 | 105G5914 | | | | | | | | 117U4151 | 117U5028 | | | 117U0349 | 117U1021 |
| NF11FX.2 | 105G5915 | | | | | | | | 117U4151 | 117U5028 | | | 117U0349 | 117U1021 |
| NF11FX.2 | 105G5916 | | | | | | | | 117U4151 | 117U5028 | | | 117U0349 | 117U1021 |
| NF11FX.2 | 105G5954 | | | | | | | | 117U4151 | 117U5028 | | | 117U0349 | 117U1021 |
| NTY7FK | 105G5720 | | | | 117U6102 | | 117U3306 | 117-7118 | | | | | | 117U1026 |

Refrigerators = 1 | Freezers = 2 | Beverage coolers = 3 | Commercial freezers = 4 | Minibars = 5 | Ice cream cabinets = 6
 Water coolers = 7 | Heat pumps = 8 | Wine coolers = 9 | Display cabinets = 10 | Ice makers = 11

| ARI | | | | | | Power | Displacement | Voltage and frequencies [* dual frequency type with 50/60 Hz] | Compressor cooling cooling (refer data sheet) | Dimensions | | | | | | Application |
|-----------------------------------|----------|----------------------------------|----------|----------------------------------|----------|-------|--------------|--|---|---------------|-----|---------------------------------|---------|------------|------------|-------------|
| LBP rating point -10°F / 120°F | | MBP rating point 20°F / 120°F | | HBP rating point 45°F / 120°F | | | | | | Height [inch] | | Connectors location/I.D. [inch] | | | | |
| Cooling capacity | EER | Cooling capacity | EER | Cooling capacity | EER | | | | | A | B | Suction | Process | Dis-charge | Oil cooler | |
| [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | [HP] | [cu. inch] | | | | | | | | | |
| 608 | 3.41 | 1402 | 5.67 | | | 1/4 | 0.37 | 95-135 V, 60 Hz | F1 | 7.8 | 7.5 | 0.32 | 0.26 | 0.26 | X | 3 |
| 608 | 3.41 | 1402 | 5.67 | | | 1/4 | 0.37 | 95-135 V, 60 Hz | F1 | 7.8 | 7.5 | 0.32 | 0.26 | 0.26 | X | 3 |
| 608 | 3.41 | 1402 | 5.67 | | | 1/4 | 0.37 | 95-135 V, 60 Hz | F1 | 7.8 | 7.5 | 0.32 | 0.26 | 0.26 | X | 3 |
| 748 | 3.31 | 1687 | 5.40 | | | 3/10 | 0.44 | 95-135 V, 60 Hz | F1 | 7.8 | 7.5 | 0.32 | 0.26 | 0.26 | X | 3 |
| 748 | 3.31 | 1687 | 5.40 | | | 3/10 | 0.44 | 95-135 V, 60 Hz | F1 | 7.8 | 7.5 | 0.32 | 0.26 | 0.26 | X | 3 |
| 748 | 3.31 | 1687 | 5.40 | | | 3/10 | 0.44 | 95-135 V, 60 Hz | F1 | 7.8 | 7.5 | 0.32 | 0.26 | 0.26 | X | 3 |
| 861 | 3.47 | 1911 | 5.46 | | | 1/3 | 0.51 | 95-135 V, 60 Hz | F1 | 7.8 | 7.5 | 0.32 | 0.26 | 0.26 | X | 3 |
| 861 | 3.47 | 1911 | 5.46 | | | 1/3 | 0.51 | 95-135 V, 60 Hz | F1 | 7.8 | 7.5 | 0.32 | 0.26 | 0.26 | X | 3 |
| 861 | 3.47 | 1911 | 5.46 | | | 1/3 | 0.51 | 95-135 V, 60 Hz | F1 | 7.8 | 7.5 | 0.32 | 0.26 | 0.26 | X | 3 |
| | | 2447 | 5.23 | | | 2/5 | 0.69 | 95-135 V, 60 Hz | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 3 |
| | | 2447 | 5.23 | | | 2/5 | 0.69 | 95-135 V, 60 Hz | F2 | 8.0 | 7.8 | 0.38 | 0.26 | 0.26 | X | 3 |
| | | 2447 | 5.23 | | | 2/5 | 0.69 | 95-135 V, 60 Hz | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 3 |
| | | 2447 | 5.23 | | | 2/5 | 0.69 | 95-135 V, 60 Hz | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 3 |
| 725 | 4.42 | | | | | 1/4 | 0.44 | 103-127 V, 60 Hz | S | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | | 2 |



R134a • 115 V • 60 Hz • F-Series

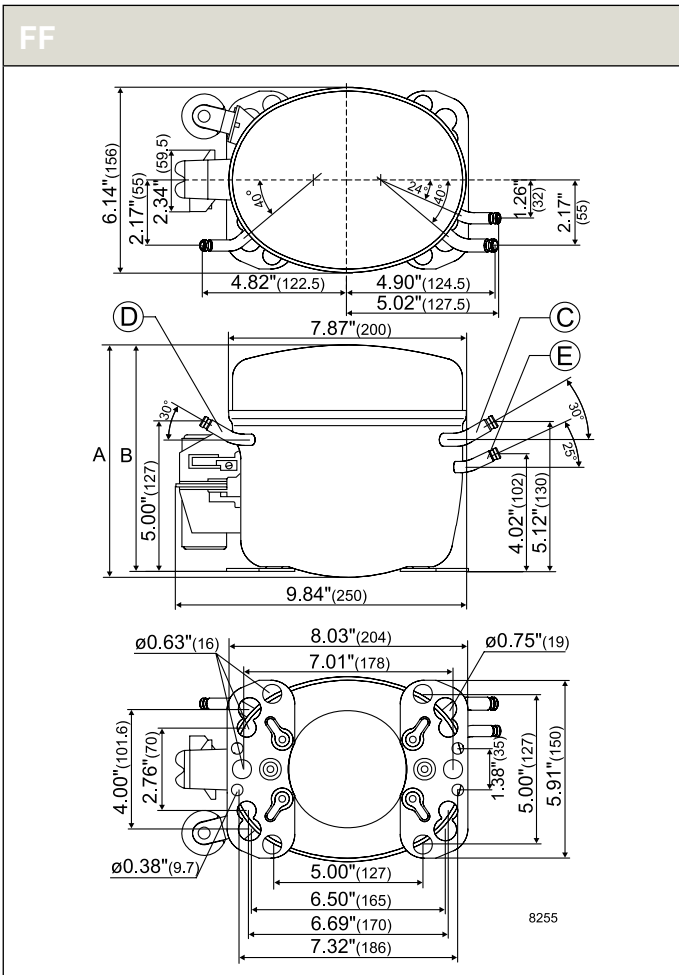
| Compressor | Code number | Application | ASHRAE Capacity [BTU/h] T _c =130°F, T _{liq} =90°F, T _{suc} =90°F Evaporating temperature [°F] | | | | | | ASHRAE | | | | | | ARI Capacity [BTU/h] T _c =120°F, T _{liq} =120°F, T _{suc} =40°F Evaporating temperature [°F] | | | | | |
|------------|-------------|-------------|--|------|------|------|----|----|----------------------------------|-----------------|-----------------------------|-----------------|----------------------------------|-----------------|--|------|------|------|------|--|
| | | | LBP rating point -10°F / 130°F | | | | | | MBP rating point 20°F / 130°F | | | | HBP rating point 45°F / 130°F | | | | | | | |
| | | | -31 | 5 | 23 | 32 | 50 | 59 | Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | -31 | 5 | 23 | 32 | 50 | |
| FF6GK | 103G5680 | L/M/HBP | | 796 | 1464 | 1886 | | | 415 | 3.15 | 1195 | 5.40 | 2320 | 7.86 | | 692 | 1200 | 1514 | 2258 | |
| FF7.5GK | 103G5780 | L/M/HBP | | 934 | 1654 | 2105 | | | 516 | 3.48 | 1356 | 5.41 | 2556 | 7.51 | | 783 | 1330 | 1665 | 2456 | |
| FF8.5GX | 103G5880 | L/M/HBP | | 1133 | 1921 | 2407 | | | 662 | 3.17 | 1584 | 4.94 | 2871 | 6.87 | | 932 | 1533 | 1895 | 2739 | |
| FF10GX | 103G5980 | L/M/HBP | | 1235 | 2109 | 2652 | | | 715 | 3.08 | 1737 | 4.84 | 3179 | 6.79 | | 1038 | 1716 | 2126 | 3088 | |

R134a • 115 V • 60 Hz • F-Series • Electrical Equipment

| Compressor | Code number | LST (RSIR & RSCR) - refer to data sheet for more info | | | | | Run capacitor (RC) | | HST (CSIR & CSR) - * alt. cable lengths avail. | | | | LST/HST | |
|------------|-------------|---|-----------|---------------------------------------|-----------|----------------------|--|-----------|--|--------------------|-------------------|----------------|-------------|----------|
| | | PTC starting device | | PTC starting device with RC connector | | Protector (external) | optional or compulsory (refer to data sheet) | | Starting relay | Starting capacitor | Starting device * | Starting kit * | Cord relief | Cover |
| | | Spades | | Spades | | Spades | Spades | | Spades | | Spades | | | |
| | | 1/4 inch | 3/16 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 1/4 inch | 1/4 inch | | |
| FF6GK | 103G5680 | | | | | | | | | | | | 117U0349 | 117U1021 |
| FF7.5GK | 103G5780 | | | | | | | | | | | | 117U0349 | 117U1021 |
| FF8.5GX | 103G5880 | | | | | | | | 117U4060 | 117U5041 | | | 117U0349 | 117U1021 |
| FF10GX | 103G5980 | | | | | | | | 117U4061 | 117U5040 | | | 117U0349 | 117U1021 |

Refrigerators = 1 | Freezers = 2 | Beverage coolers = 3 | Commercial freezers = 4 | Minibars = 5 | Ice cream cabinets = 6
 Water coolers = 7 | Heat pumps = 8 | Wine coolers = 9 | Display cabinets = 10 | Ice makers = 11

| ARI | | | | | | Power | Displacement | Voltage and frequencies [* dual frequency type with 50/60 Hz] | Compressor cooling cooling [refer-data sheet] | Dimensions | | | | | | Application | |
|-----------------------------------|-----------------|----------------------------------|-----------------|----------------------------------|-----------------|-------|--------------|--|---|------------------|--------------|------------------------------------|-----------------|------|--|-------------|------------------------------|
| LBP rating point -10°F / 120°F | | MBP rating point 20°F / 120°F | | HBP rating point 45°F / 120°F | | | | | | Height [inch] | | Connectors location/I.D. [inch] | | | | | alt. connectors available |
| Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | | | | | Suction C | Process D | Dis-charge E | Oil cooler F | | | | |
| 394 | 2.88 | 1105 | 5.08 | 2035 | 7.18 | 1/5 | 0.38 | 103-127 V, 60 Hz | F1 | 7.7 | 7.5 | 0.32 | 0.26 | 0.26 | | | 3 |
| 456 | 3.02 | 1228 | 5.06 | 2220 | 6.85 | 1/4 | 0.42 | 103-127 V, 60 Hz | F1 | 7.7 | 7.5 | 0.32 | 0.26 | 0.26 | | | 3 |
| 562 | 2.72 | 1421 | 4.58 | 2489 | 6.23 | 1/4 | 0.49 | 103-127 V, 60 Hz | F2 | 7.7 | 7.5 | 0.32 | 0.26 | 0.26 | | | 3 |
| 621 | 2.62 | 1590 | 4.48 | 2801 | 6.13 | 1/3 | 0.55 | 103-127 V, 60 Hz | F2 | 7.7 | 7.5 | 0.32 | 0.26 | 0.26 | | | 3 |



R134a • 115 V • 60 Hz • S-Series

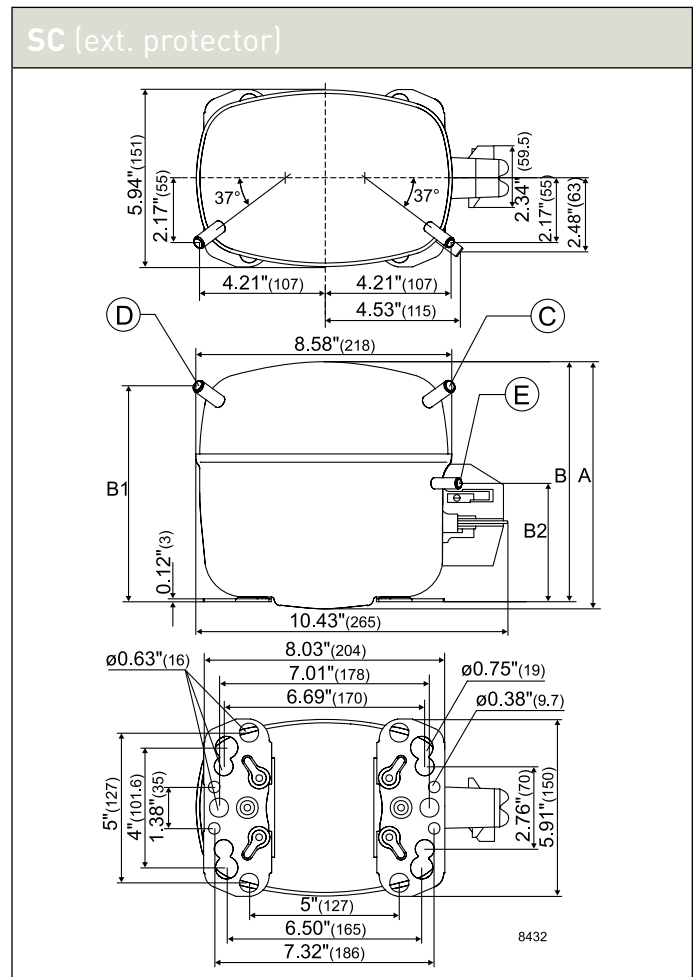
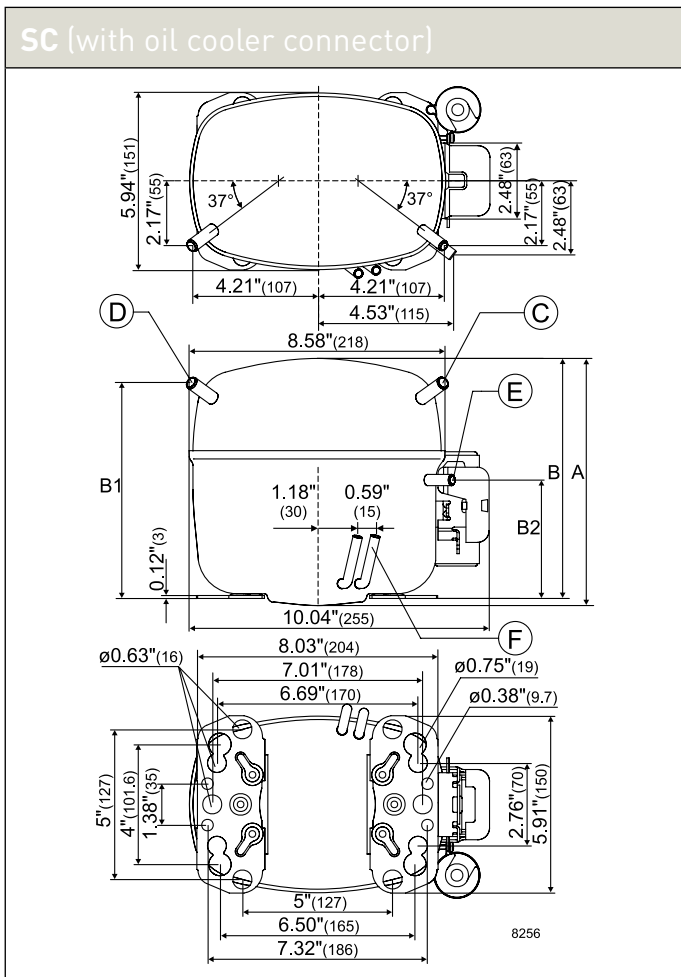
| Compressor | Code number | Application | ASHRAE Capacity [BTU/h] T _c =130°F, T _{liq} =90°F, T _{suc} =90°F Evaporating temperature [°F] | | | | | | ASHRAE | | | | | | ARI Capacity [BTU/h] T _c =120°F, T _{liq} =120°F, T _{suc} =40°F Evaporating temperature [°F] | | | | | | | |
|------------|-------------|-------------|--|------|------|------|----|------|----------------------------------|----------|---------|----------|----------------------------------|----------|--|------|------|------|------|----|--|--|
| | | | LBP rating point -10°F / 130°F | | | | | | MBP rating point 20°F / 130°F | | | | HBP rating point 45°F / 130°F | | | | | | | | | |
| | | | Cooling capacity | | EER | | | | Cooling capacity | | EER | | Cooling capacity | | EER | | | | | | | |
| | | | -31 | 5 | 23 | 32 | 50 | 59 | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | -31 | 5 | 23 | 32 | 50 | 59 | | |
| SC15FTX | 104G7505 | LBP | 677 | 2412 | 3797 | | | 1552 | 3.83 | 3160 | 5.00 | | | 611 | 1954 | 3031 | | | | | | |
| SC15FTX | 104G7506 | L/MBP | 677 | 2412 | 3797 | | | 1552 | 3.83 | 3160 | 5.00 | | | 611 | 1954 | 3031 | | | | | | |
| SC15FTX | 104G7507 | LBP | 677 | 2412 | 3797 | | | 1552 | 3.83 | 3160 | 5.00 | | | 611 | 1954 | 3031 | | | | | | |
| SC12G | 104G7250 | L/M/HBP | 203 | 1799 | 3099 | 3927 | | 1007 | 3.38 | 2548 | 5.33 | 4795 | 7.64 | 301 | 1552 | 2565 | 3200 | 4778 | | | | |
| SC12G | 104G7260 | L/M/HBP | 203 | 1799 | 3099 | 3927 | | 1007 | 3.38 | 2548 | 5.33 | 4795 | 7.64 | 301 | 1552 | 2565 | 3200 | 4778 | | | | |
| SC12G | 104G7261 | L/M/HBP | 203 | 1799 | 3099 | 3927 | | 1007 | 3.38 | 2548 | 5.33 | 4795 | 7.64 | 301 | 1552 | 2565 | 3200 | 4778 | | | | |
| SC15G | 104G7550 | L/M/HBP | | 2183 | 3724 | 4663 | | 1237 | 3.76 | 3071 | 5.43 | 5551 | 7.24 | | 1800 | 2989 | 3696 | 5329 | | | | |
| SC15G | 104G7555 | L/M/HBP | | 2183 | 3724 | 4663 | | 1237 | 3.76 | 3071 | 5.43 | 5551 | 7.24 | | 1800 | 2989 | 3696 | 5329 | | | | |
| SC15G | 104G7557 | L/M/HBP | | 2183 | 3724 | 4663 | | 1237 | 3.76 | 3071 | 5.43 | 5551 | 7.24 | | 1800 | 2989 | 3696 | 5329 | | | | |
| SC15G | 104G7560 | L/M/HBP | | 2183 | 3724 | 4663 | | 1237 | 3.76 | 3071 | 5.43 | 5551 | 7.24 | | 1800 | 2989 | 3696 | 5329 | | | | |
| SC18G | 104G7800 | L/M/HBP | | 2522 | 4226 | 5255 | | 1356 | 3.36 | 3496 | 5.06 | 6255 | 6.86 | | 2151 | 3456 | 4242 | 6156 | 7314 | | | |
| SC18G | 104G7803 | L/M/HBP | | 2522 | 4226 | 5255 | | 1356 | 3.36 | 3496 | 5.06 | 6255 | 6.86 | | 2151 | 3456 | 4242 | 6156 | 7314 | | | |

R134a • 115 V • 60 Hz • S-Series • Electrical Equipment

| Compressor * pre-assembled start equipment | Code number | LST (RSIR & RSCR) - refer to data sheet for more info | | | | | Run capacitor (RC) | | HST (CSIR & CSR) - * alt. cable lengths avail. | | | | LST/HST | |
|--|-------------|---|-----------|--|-----------|-------------------------|---|-------------------|--|----------------------|-------------------|----------------|----------|--|
| | | PTC starting device | | PTC starting device with RC connector | | Protector (external) | optional or compulsory (refer to data sheet) | Starting relay | Starting capacitor | Starting device * | Starting kit * | Cord relief | Cover | |
| | | Spades | | Spades | | Spades | Spades | Spades | | Spades | | | | |
| | | 1/4 inch | 3/16 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 1/4 inch | 1/4 inch | | |
| SC15FTX | 104G7505 | | | | | | | 117U6020 | 117U5023 | | | 103N1004 | 103N2008 | |
| SC15FTX | 104G7506 | | | | | | | 117U6020 | 117U5023 | | | 103N1004 | 103N2008 | |
| SC15FTX * | 104G7507 | | | | | | | 117U6020 | 117U5023 | | | 103N1004 | 103N2008 | |
| SC12G | 104G7250 | | | | | | | 117U6020 | 117U5023 | | | 103N1004 | 103N2008 | |
| SC12G | 104G7260 | | | | | | | 117U6020 | 117U5023 | | | 103N1004 | 103N2008 | |
| SC12G * | 104G7261 | | | | | | | 117U6020 | 117U5023 | | | 103N1004 | 103N2008 | |
| SC15G | 104G7550 | | | | | | | 117U6020 | 117U5023 | | | 103N1004 | 103N2008 | |
| SC15G | 104G7555 | | | | | | | 117U6020 | 117U5023 | | | 103N1004 | 103N2008 | |
| SC15G | 104G7557 | | | | | | | 117U6020 | 117U5023 | | | 103N1004 | 103N2008 | |
| SC15G | 104G7560 | | | | | | | 117U6020 | 117U5023 | | | 103N1004 | 103N2008 | |
| SC18G | 104G7800 | | | | | | | 117-7441 | 117U5042 | 117-7053 | | | 117U1021 | |
| SC18G | 104G7803 | | | | | | | 117-7441 | 117U5042 | 117-7053 | | | 117U1021 | |

Refrigerators = 1 | Freezers = 2 | Beverage coolers = 3 | Commercial freezers = 4 | Minibars = 5 | Ice cream cabinets = 6
 Water coolers = 7 | Heat pumps = 8 | Wine coolers = 9 | Display cabinets = 10 | Ice makers = 11

| ARI | | | | | | Power | Displacement | Voltage and frequencies [* dual frequency type with 50/60 Hz] | Compressor cooling [refer-data sheet] | Dimensions | | | | | | Application | |
|-----------------------------------|------|----------------------------------|------|----------------------------------|------|-------|--------------|--|--|------------------|------------------------------------|------|--------------|--------------|-----------------|-------------|-----------------|
| LBP rating point -10°F / 120°F | | MBP rating point 20°F / 120°F | | HBP rating point 45°F / 120°F | | | | | | Height [inch] | Connectors location/I.D. [inch] | | | | | | |
| Cooling capacity [BTU/h] | EER | Cooling capacity [BTU/h] | EER | Cooling capacity [BTU/h] | EER | | | | | | A | B | Suction C | Process D | Dis-charge E | | Oil cooler F |
| 1282 | 3.17 | 2828 | 4.66 | | | 2/5 | 0.93 | 90-135 V, 60 Hz | F2 | 8.2 | 8.0 | 0.32 | 0.26 | 0.26 | X | 4 | |
| 1282 | 3.17 | 2828 | 4.66 | | | 2/5 | 0.93 | 90-135 V, 60 Hz | F2 | 8.2 | 8.0 | 0.40 | 0.26 | 0.26 | X | 4 | |
| 1282 | 3.17 | 2828 | 4.66 | | | 2/5 | 0.93 | 90-135 V, 60 Hz | F2 | 8.2 | 8.0 | 0.32 | 0.26 | 0.26 | X | 4 | |
| 929 | 3.05 | 2373 | 5.15 | 4295 | 7.24 | 2/5 | 0.79 | 103-127 V, 60 Hz | F1 | 8.2 | 8.0 | 0.32 | 0.26 | 0.26 | X | 3 | |
| 929 | 3.05 | 2373 | 5.15 | 4295 | 7.24 | 2/5 | 0.79 | 103-127 V, 60 Hz | F1 | 8.2 | 8.0 | 0.32 | 0.26 | 0.26 | 0.26 | X | 3 |
| 929 | 3.05 | 2373 | 5.15 | 4295 | 7.24 | 2/5 | 0.79 | 103-127 V, 60 Hz | F1 | 8.2 | 8.0 | 0.32 | 0.26 | 0.26 | X | 3 | |
| 1048 | 3.15 | 2770 | 5.04 | 4845 | 6.60 | 1/2 | 0.93 | 103-127 V, 60 Hz | F1 | 8.2 | 8.0 | 0.32 | 0.26 | 0.26 | X | 3 | |
| 1048 | 3.15 | 2770 | 5.04 | 4845 | 6.60 | 1/2 | 0.93 | 103-127 V, 60 Hz | F1 | 8.2 | 8.0 | 0.32 | 0.26 | 0.26 | X | 3 | |
| 1048 | 3.15 | 2770 | 5.04 | 4845 | 6.60 | 1/2 | 0.93 | 103-127 V, 60 Hz | F1 | 8.2 | 8.0 | 0.32 | 0.26 | 0.26 | X | 3 | |
| 1048 | 3.15 | 2770 | 5.04 | 4845 | 6.60 | 1/2 | 0.93 | 103-127 V, 60 Hz | F1 | 8.2 | 8.0 | 0.32 | 0.26 | 0.26 | 0.26 | X | 3 |
| 1272 | 2.93 | 3215 | 4.69 | 5573 | 6.33 | 3/5 | 1.08 | 95-135 V, 60 Hz | F2 | 8.6 | 8.4 | 0.38 | 0.26 | 0.26 | | 3 | |
| 1272 | 2.93 | 3215 | 4.69 | 5573 | 6.33 | 3/5 | 1.08 | 95-135 V, 60 Hz | F2 | 8.6 | 8.4 | 0.38 | 0.26 | 0.26 | | 3 | |



WITH MORE THAN 60 YEARS OF EXPERIENCE IN COMPRESSOR TECHNOLOGY AND HIGHLY DEDICATED EMPLOYEES, OUR FOCUS IS ON DEVELOPING AND

APPLYING ADVANCED COMPRESSOR TECHNOLOGIES TO ACHIEVE STANDARD SETTING PERFORMANCE FOR LEADING PRODUCTS AND BUSINESSES AROUND THE WORLD.

R600a

115 V | 60 Hz



| | |
|---------------|-------|
| N-Series..... | 82-83 |
| DELTA..... | 84-85 |

Chemical formula

C₄H₁₀

Typelabel

Typelabel stripe colour: Red
Typelabel colour: Green

Applications

- LBP:** Low Back Pressure
- HBP:** High Back Pressure
- MBP:** Medium Back Pressure

Motor types

- RSIR:** Resistant Start Induction Run
- RSCR:** Resistant Start Capacitor Run
- CSIR:** Capacitor Start Induction Run
- CSR:** Capacitor Start Run

Compressor cooling

- S = Static cooling normally sufficient
- O = Oil cooling
- F₁ = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
- F₂ = Fan cooling 3.0 m/s necessary

Starting devices

LST: Low Starting Torque

LST is used with capillary tube control and pressure equalizing. (Pressure equalizing may exceed 10 minutes). The PTC starting device requires 5 minutes cooling before each start.

To fulfil the requirements of EN 60355-2-34 the protection screen 103N0476 must be applied to the PTC starting device.

HST: High Starting Torque

HST consisting of relay and starting capacitor is used for expansion valve control or for capillary tube control without pressure equalizing.

ePTC: Electronically controlled PTC

- Compressor restart possible after a few seconds
- Operational wattage loss reduced by 2 watt
- PTC protection screen not needed (surface temp. < 179.6 °F)
- Temperature resistant up to min. +140 °F

Test conditons

Electrical equipment being used is listed in our data sheets

1 Watt = 0.86 kcal/h

1 Watt = 3.41 Btu/h





R600a • 115 V • 60 Hz • N-Series

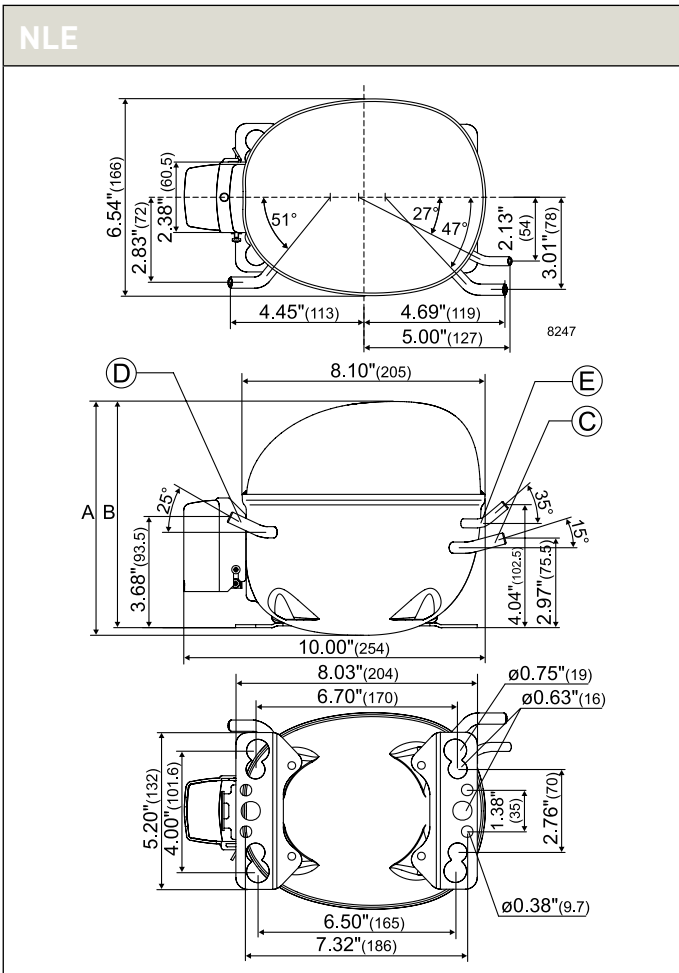
| Compressor | Code number | Application | ASHRAE Capacity [BTU/h] T _c =130°F, T _{liq} =90°F, T _{suc} =90°F Evaporating temperature [°F] | | | | | | ASHRAE | | | | | | ARI Capacity [BTU/h] T _c =120°F, T _{liq} =120°F, T _{suc} =40°F Evaporating temperature [°F] | | | | | |
|------------|-------------|-------------|--|------|------|------|----|----|----------------------------------|-----------------|-----------------------------|-----------------|----------------------------------|-----------------|--|-----|------|------|----|----|
| | | | LBP rating point -10°F / 130°F | | | | | | MBP rating point 20°F / 130°F | | | | HBP rating point 45°F / 130°F | | | | | | | |
| | | | -31 | 5 | 23 | 32 | 50 | 59 | Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | -31 | 5 | 23 | 32 | 50 | 59 |
| NLE11KTK | 105H5942 | L/MBP | 360 | 1059 | 1645 | 1959 | | | 665 | 4.18 | 1390 | 5.70 | | | 295 | 855 | 1317 | 1563 | | |
| NLE13KTK | 105H5949 | L/MBP | 415 | 1182 | 1836 | 2227 | | | 773 | 4.13 | 1545 | 5.52 | | | 334 | 950 | 1467 | 1774 | | |

R600a • 115 V • 60 Hz • N-Series • Electrical Equipment

| Compressor | Code number | LST (RSIR & RSCR) - refer to data sheet for more info | | | | | Run capacitor (RC) | | HST (CSIR & CSR) - * alt. cable lengths avail. | | | | LST/HST | |
|------------|-------------|---|-----------|---------------------------------------|-----------|----------------------|--|-----------|--|--------------------|-------------------|----------------|-------------|----------|
| | | PTC starting device | | PTC starting device with RC connector | | Protector (external) | optional or compulsory (refer to data sheet) | | Starting relay | Starting capacitor | Starting device * | Starting kit * | Cord relief | Cover |
| | | Spades | | Spades | | Spades | Spades | | Spades | | Spades | | | |
| | | 1/4 inch | 3/16 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 1/4 inch | 1/4 inch | | |
| NLE11KTK | 105H5942 | 103N0026 | 103N0023 | 103N0027 | 103N0024 | | 117-7118 | 117-7120 | | | | | 103N1010 | 103N2011 |
| NLE13KTK | 105H5949 | 103N0026 | 103N0023 | 103N0027 | 103N0024 | | 117-7118 | 117-7120 | | | | | 103N1010 | 103N2011 |

Refrigerators = 1 | Freezers = 2 | Beverage coolers = 3 | Commercial freezers = 4 | Minibars = 5 | Ice cream cabinets = 6
 Water coolers = 7 | Heat pumps = 8 | Wine coolers = 9 | Display cabinets = 10 | Ice makers = 11

| ARI | | | | | | Power | Displacement | Voltage and frequencies [* dual frequency type with 50/60 Hz] | Compressor cooling [refer data sheet] | Dimensions | | | | | | Application | |
|-----------------------------------|----------|----------------------------------|----------|----------------------------------|----------|-------|--------------|--|--|---------------|------------|---------------------------------|---------|------------|------------|-------------|---------------------------|
| LBP rating point -10°F / 120°F | | MBP rating point 20°F / 120°F | | HBP rating point 45°F / 120°F | | | | | | Height [inch] | | Connectors location/I.D. [inch] | | | | | |
| Cooling capacity | EER | Cooling capacity | EER | Cooling capacity | EER | | | | | A | B | Suction | Process | Dis-charge | Oil cooler | | alt. connectors available |
| [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | | | | | [HP] | [cu. inch] | | | | | | |
| 542 | 3.41 | 1236 | 5.12 | | | 1/6 | 0.68 | 95-135 V, 60 Hz | F1 | 7.8 | 7.5 | 0.32 | 0.26 | 0.26 | | 2 4 | |
| 623 | 3.35 | 1371 | 4.97 | | | 1/5 | 0.81 | 95-135 V, 60 Hz | F1 | 7.8 | 7.5 | 0.32 | 0.26 | 0.26 | | 2 4 | |



R600a • 115 V • 60 Hz • DELTA

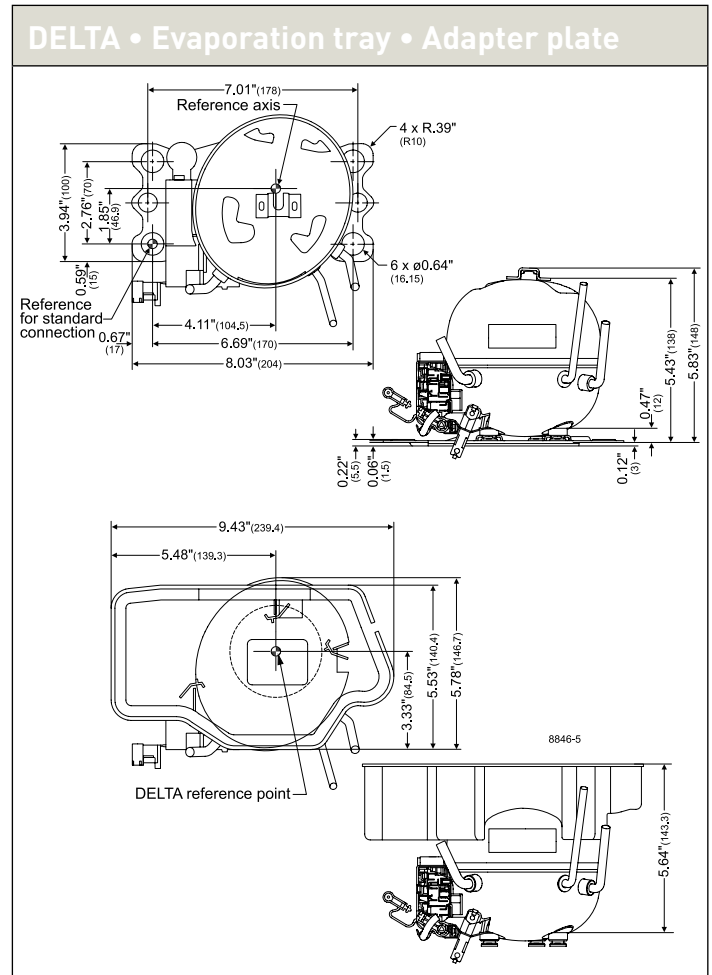
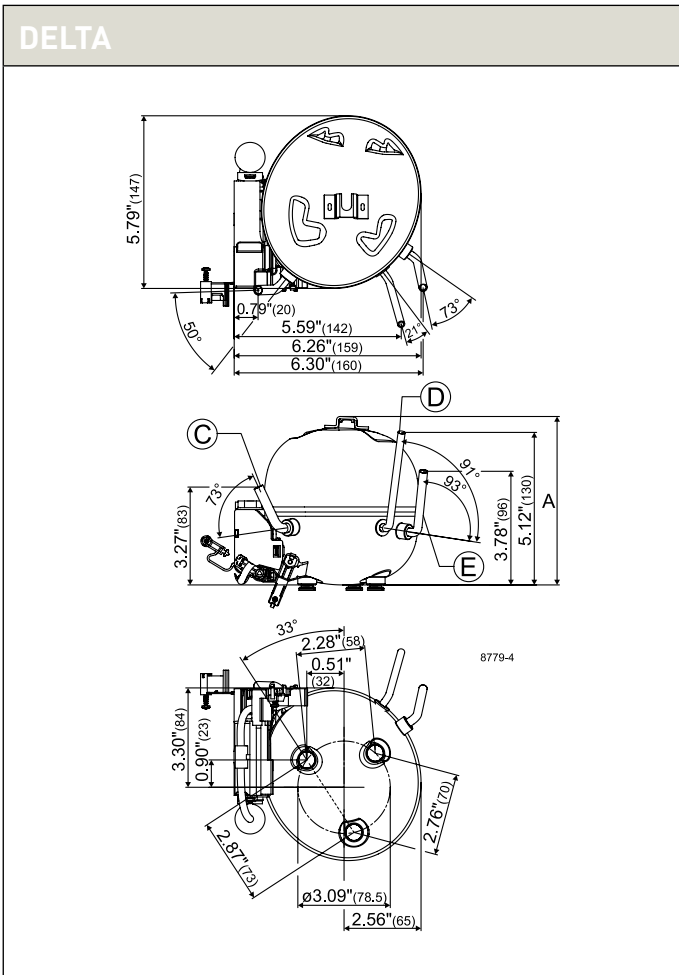
| Compressor | Code number | Application | ASHRAE Capacity [BTU/h] T _c =130°F, T _{liq} =90°F, T _{suc} =90°F Evaporating temperature [°F] | | | | | | ASHRAE | | | | | | ARI Capacity [BTU/h] T _c =120°F, T _{liq} =120°F, T _{suc} =40°F Evaporating temperature [°F] | | | | | | | | | |
|------------|-------------|-------------|--|-----|-----|----|----|----|----------------------------------|----------|----------------------------------|----------|------------------|----------|--|---|----|----|----|-----|-----|--|--|--|
| | | | LBP rating point -10°F / 130°F | | | | | | MBP rating point 20°F / 130°F | | HBP rating point 45°F / 130°F | | | | | | | | | | | | | |
| | | | -31 | 5 | 23 | 32 | 50 | 59 | Cooling capacity | EER | Cooling capacity | EER | Cooling capacity | EER | -31 | 5 | 23 | 32 | 50 | 59 | | | | |
| | | | | | | | | | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | | | | | | | | | | |
| HTD30AE | CDO00120 | LBP | 96 | 306 | 485 | | | | 198 | 5.49 | 406 | 7.29 | | | | | | | 79 | 254 | 397 | | | |
| HTD30AE | CDO00166 | LBP | 96 | 306 | 485 | | | | 198 | 5.49 | 406 | 7.29 | | | | | | | 79 | 254 | 397 | | | |

R600a • 115 V • 60 Hz • DELTA • Electrical Equipment • Spare parts • Accessories

| Compressor pre-assembled start equipment | Code number | Run capacitor | Terminal board | | Small cover | Adapter plate | Evaporation tray |
|--|-------------|--|---|--|--|--|------------------|
| | | <ul style="list-style-type: none"> • optional • compulsory * | <ul style="list-style-type: none"> • PTC • external protector | <ul style="list-style-type: none"> • ePTC • external protector | <ul style="list-style-type: none"> • compulsory • delivered separately | <ul style="list-style-type: none"> • innovative fixation system • faster and easier assembly | plastic |
| | | Spades | Spades | Spades | | | |
| | | 3/16 inch | 3/16 inch | 3/16 inch | | | |
| HTD30AE | CDO00120 | 2 µF | BKE1 | | 163806_ | 157008_ | |
| HTD30AE | CDO00166 | 2 µF | BKE1 | | 163806_ | 157008_ | 162531_ |

Refrigerators = 1 | Freezers = 2 | Beverage coolers = 3 | Commercial freezers = 4 | Minibars = 5 | Ice cream cabinets = 6
 Water coolers = 7 | Heat pumps = 8 | Wine coolers = 9 | Display cabinets = 10 | Ice makers = 11

| ARI | | | | | | Power | Displacement | Voltage and frequencies [* dual frequency type with 50/60 Hz] | Compressor cooling [refer-data sheet] | Dimensions | | | | | Application | |
|-----------------------------------|------|----------------------------------|------|----------------------------------|-----|-------|--------------|--|--|---------------|---|---------------------------------------|------------------|---------------------|-------------|---------------------------|
| LBP rating point -10°F / 120°F | | MBP rating point 20°F / 120°F | | HBP rating point 45°F / 120°F | | | | | | Height [inch] | | Connectors location / diameter [inch] | | | | alt. connectors available |
| Cooling capacity [BTU/h] | EER | Cooling capacity [BTU/h] | EER | Cooling capacity [BTU/h] | EER | | | | | A | B | Suction C (I.D.) | Process D (O.D.) | Dis-charge E (I.D.) | | |
| 166 | 4.76 | 370 | 7.14 | | | 1/12 | 0.18 | 80-135 V, 60 Hz | S | 5.2 | | 0.24 | 0.23 | 0.20 | X | 1 2 5 |
| 166 | 4.76 | 370 | 7.14 | | | 1/12 | 0.18 | 80-135 V, 60 Hz * | S | 5.2 | | 0.24 | 0.23 | 0.20 | X | 1 2 5 |



WITH MORE THAN 60 YEARS OF EXPERIENCE IN COMPRESSOR TECHNOLOGY AND HIGHLY DEDICATED EMPLOYEES, OUR FOCUS IS ON DEVELOPING AND

APPLYING ADVANCED COMPRESSOR TECHNOLOGIES TO ACHIEVE STANDARD SETTING PERFORMANCE FOR LEADING PRODUCTS AND BUSINESSES AROUND THE WORLD.

R404A/R507

115 V | 60 Hz



| | |
|----------------|-------|
| T-Series | 88-89 |
| N-Series..... | 90-91 |
| S-Series | 92-93 |

Chemical formula

R404A: $\text{CHF}_2\text{CF}_3 / \text{CH}_3\text{CF}_3 / \text{CH}_2\text{FCF}_3$
 R507: $\text{CHF}_2\text{CF}_3 / \text{CH}_3\text{CF}_3$

Typelabel

Typelabel stripe colour: Lilac
 Typelabel colour: Green

Applications

LBP: Low Back Pressure
HBP: High Back Pressure
MBP: Medium Back Pressure

Motor types

RSIR: Resistant Start Induction Run
RSCR: Resistant Start Capacitor Run
CSIR: Capacitor Start Induction Run
CSR: Capacitor Start Run

Compressor cooling

S = Static cooling normally sufficient
 O = Oil cooling
 F_1 = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
 F_2 = Fan cooling 3.0 m/s necessary

Starting devices

LST: Low Starting Torque
 LST is used with capillary tube control and pressure equalizing. (Pressure equalizing may exceed 10 minutes). The PTC starting device requires 5 minutes cooling before each start.

To fulfil the requirements of EN 60355-2-34 the protection screen 103N0476 must be applied to the PTC starting device.

HST: High Starting Torque
 HST consisting of relay and starting capacitor is used for expansion valve control or for capillary tube control without pressure equalizing.

ePTC: Electronically controlled PTC

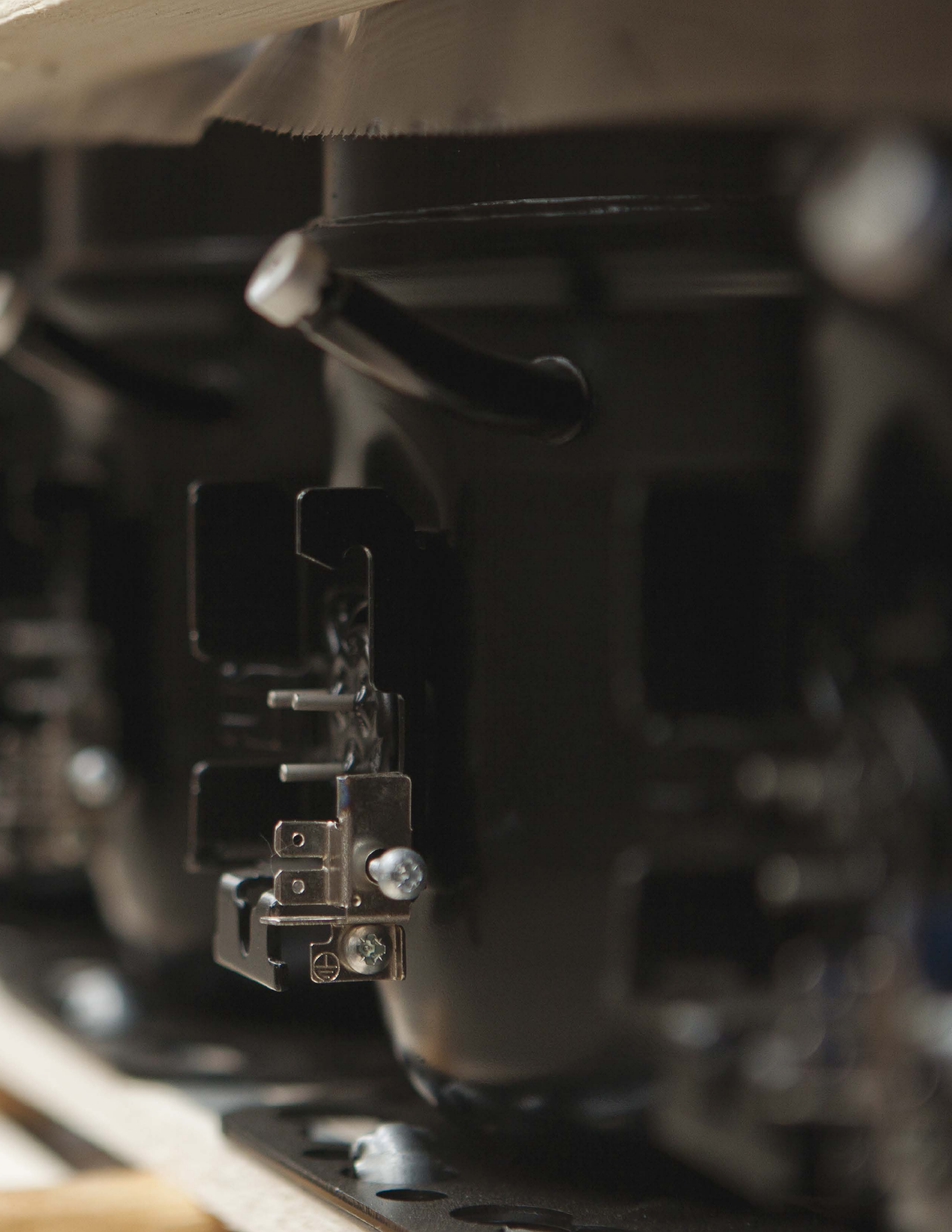
- Compressor restart possible after a few seconds
- Operational wattage loss reduced by 2 watt
- PTC protection screen not needed (surface temp. < 179.6 °F)
- Temperature resistant up to min. +140 °F

Test conditons

Electrical equipment being used is listed in our data sheets

1 Watt = 0.86 kcal/h
 1 Watt = 3.41 Btu/h





R404A/R507 • 115 V • 60 Hz • T-Series

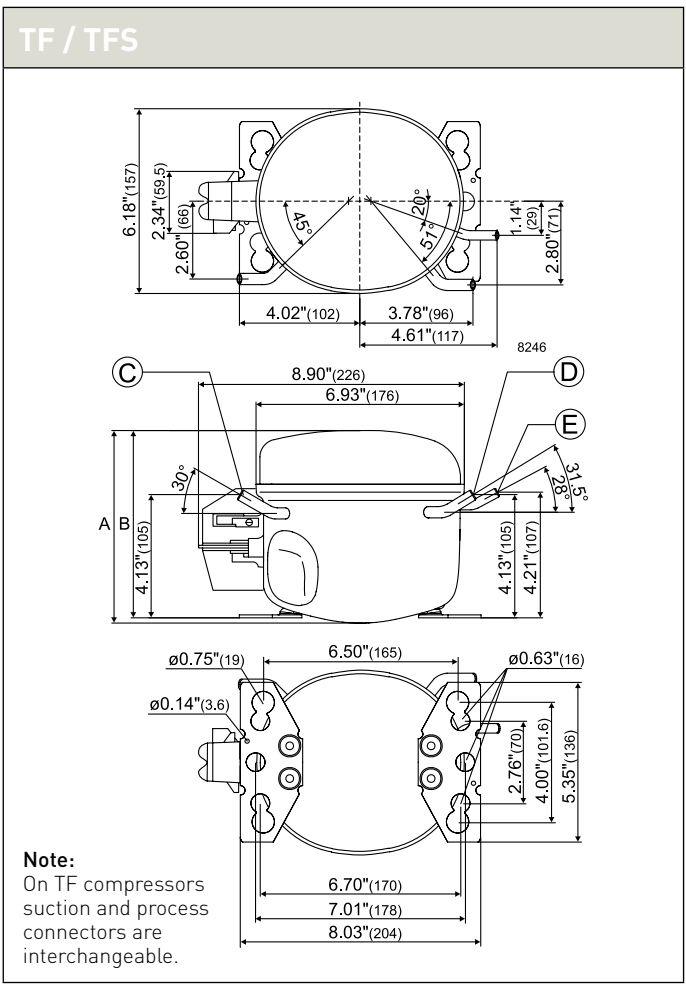
| Compressor | Code number | Application | ASHRAE Capacity [BTU/h] T _c =130°F, T _{liq} =90°F, T _{suc} =90°F Evaporating temperature [°F] | | | | | | ASHRAE | | | | | | ARI Capacity [BTU/h] T _c =120°F, T _{liq} =120°F, T _{suc} =40°F Evaporating temperature [°F] | | | | | |
|------------|-------------|-------------|--|------|------|------|----|----|----------------------------------|-----------------|----------------------------------|-----------------|-----------------------------|-----------------|--|-----|------|------|----|----|
| | | | LBP rating point -10°F / 130°F | | | | | | MBP rating point 20°F / 130°F | | HBP rating point 45°F / 130°F | | | | | | | | | |
| | | | -31 | 5 | 23 | 32 | 50 | 59 | Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | -31 | 5 | 23 | 32 | 50 | 59 |
| TF4CLX | 102U2102 | L/MBP | 340 | 1059 | 1620 | 1965 | | | 703 | 3.83 | 1302 | 4.77 | | | 267 | 770 | 1143 | 1362 | | |
| TF4CLX | 102U2114 | L/MBP | 340 | 1059 | 1620 | 1965 | | | 703 | 3.83 | 1302 | 4.77 | | | 267 | 770 | 1143 | 1362 | | |
| TFS4.5CLX | 102U2103 | LBP | 477 | 1369 | | | | | 927 | 4.07 | | | | | 368 | 990 | | | | |
| TFS4.5CLX | 102U2115 | LBP | 477 | 1369 | | | | | 927 | 4.07 | | | | | 368 | 990 | | | | |

R404A/R507 • 115 V • 60 Hz • T-Series • Electrical Equipment

| Compressor | Code number | LST (RSIR & RSCR) - refer to data sheet for more info | | | | | Run capacitor (RC) | | HST (CSIR & CSR) - * alt. cable lengths avail. | | | | LST/HST | |
|------------|-------------|---|-----------|---------------------------------------|-----------|----------------------|--|-----------|--|--------------------|-------------------|----------------|-------------|----------|
| | | PTC starting device | | PTC starting device with RC connector | | Protector (external) | optional or compulsory (refer to data sheet) | | Starting relay | Starting capacitor | Starting device * | Starting kit * | Cord relief | Cover |
| | | Spades | | Spades | | Spades | Spades | | Spades | | Spades | | | |
| | | 1/4 inch | 3/16 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 1/4 inch | 1/4 inch | | |
| TF4CLX | 102U2102 | | | | | | | | 117U4148 | 117U5025 | | | 117U0349 | 117U1021 |
| TF4CLX | 102U2114 | | | | | | | | 117U4148 | 117U5025 | | | 117U0349 | 117U1021 |
| TFS4.5CLX | 102U2103 | | | | | | | | 117U4148 | 117U5025 | | | 117U0349 | 117U1021 |
| TFS4.5CLX | 102U2115 | | | | | | | | 117U4148 | 117U5025 | | | 117U0349 | 117U1021 |

Refrigerators = 1 | Freezers = 2 | Beverage coolers = 3 | Commercial freezers = 4 | Minibars = 5 | Ice cream cabinets = 6
 Water coolers = 7 | Heat pumps = 8 | Wine coolers = 9 | Display cabinets = 10 | Ice makers = 11

| ARI | | | | | | Power | Displacement | Voltage and frequencies [* dual frequency type with 50/60 Hz] | Compressor cooling [refer-data sheet] | Dimensions | | | | | | Application | |
|-----------------------------------|----------|----------------------------------|----------|----------------------------------|----------|-------|--------------|--|--|---------------|------------|---------------------------------|---------|------------|------------|-----------------|---------------------------|
| LBP rating point -10°F / 120°F | | MBP rating point 20°F / 120°F | | HBP rating point 45°F / 120°F | | | | | | Height [inch] | | Connectors location/I.D. [inch] | | | | | |
| Cooling capacity | EER | Cooling capacity | EER | Cooling capacity | EER | | | | | A | B | Suction | Process | Dis-charge | Oil cooler | | alt. connectors available |
| [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | | | | | [HP] | [cu. inch] | | | | | | |
| 523 | 2.94 | 1075 | 4.07 | | | 1/5 | 0.24 | 103-135 V, 60 Hz | F2 | 6.8 | 6.7 | 0.26 | 0.26 | 0.20 | X | 4 5 10 11 | |
| 523 | 2.94 | 1075 | 4.07 | | | 1/5 | 0.24 | 103-135 V, 60 Hz | F2 | 6.8 | 6.7 | 0.26 | 0.26 | 0.26 | X | 4 5 10 11 | |
| 685 | 3.11 | 0 | 0.00 | | | 1/4 | 0.28 | 103-135 V, 60 Hz | F2 | 6.8 | 6.7 | 0.26 | 0.26 | 0.20 | X | 4 5 | |
| 685 | 3.11 | 0 | 0.00 | | | 1/4 | 0.28 | 103-135 V, 60 Hz | F2 | 6.8 | 6.7 | 0.26 | 0.26 | 0.26 | X | 4 5 | |



R404A/R507 • 115 V • 60 Hz • N-Series

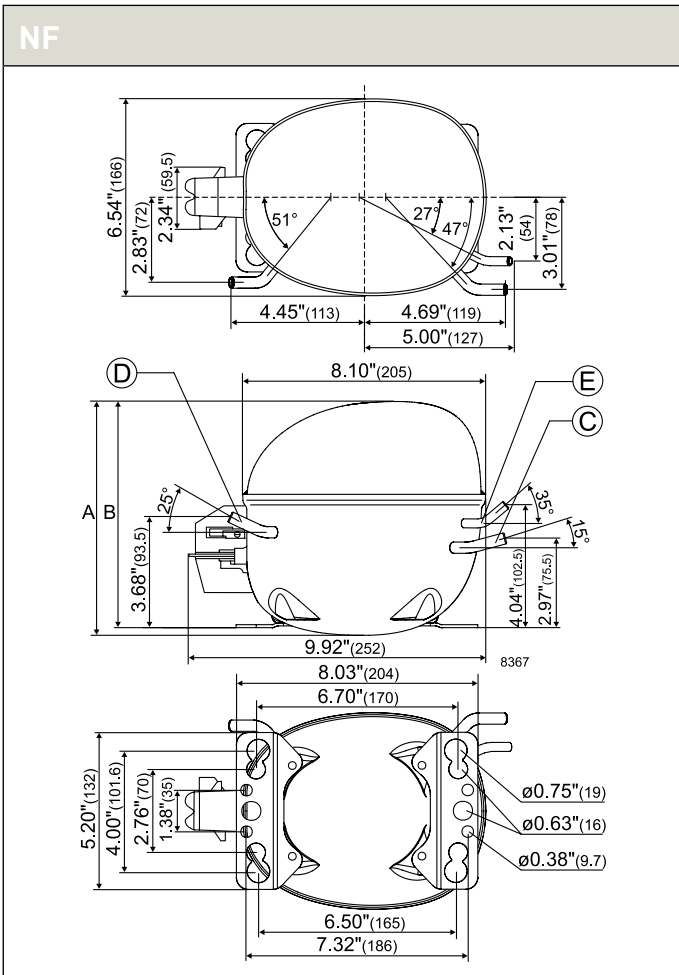
| Compressor | Code number | Application | ASHRAE Capacity [BTU/h] T _c =130°F, T _{liq} =90°F, T _{suc} =90°F Evaporating temperature [°F] | | | | | | ASHRAE | | | | | | ARI Capacity [BTU/h] T _c =120°F, T _{liq} =120°F, T _{suc} =40°F Evaporating temperature [°F] | | | | | | | | | |
|------------|-------------|-------------|--|------|------|------|----|----|----------------------------------|-----------------|-----------------------------|-----------------|----------------------------------|-----------------|--|---|----|----|-----|------|------|------|--|--|
| | | | LBP rating point -10°F / 130°F | | | | | | MBP rating point 20°F / 130°F | | | | HBP rating point 45°F / 130°F | | | | | | | | | | | |
| | | | -31 | 5 | 23 | 32 | 50 | 59 | Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | -31 | 5 | 23 | 32 | 50 | 59 | | | | |
| NF5.5CLX | 105F1611 | L/MBP | 653 | 1837 | 2775 | 3354 | | | 1247 | 4.20 | 2233 | 5.22 | | | | | | | 509 | 1343 | 1961 | 2324 | | |
| NF5.5CLX | 105F1612 | L/MBP | 653 | 1837 | 2775 | 3354 | | | 1247 | 4.20 | 2233 | 5.22 | | | | | | | 509 | 1343 | 1961 | 2324 | | |
| NF5.5CLX | 105F1621 | L/MBP | 653 | 1837 | 2775 | 3354 | | | 1247 | 4.20 | 2233 | 5.22 | | | | | | | 509 | 1343 | 1961 | 2324 | | |
| NF5.5CLX | 105F1625 | L/MBP | 653 | 1837 | 2775 | 3354 | | | 1247 | 4.20 | 2233 | 5.22 | | | | | | | 509 | 1343 | 1961 | 2324 | | |
| NF5.5CLX | 105F1626 | L/MBP | 653 | 1837 | 2775 | 3354 | | | 1247 | 4.20 | 2233 | 5.22 | | | | | | | 509 | 1343 | 1961 | 2324 | | |
| NF7CLX | 105F1714 | L/MBP | 776 | 2300 | 3507 | 4254 | | | 1541 | 4.19 | 2819 | 5.33 | | | | | | | 613 | 1687 | 2483 | 2952 | | |
| NF7CLX | 105F1721 | L/MBP | 776 | 2300 | 3507 | 4254 | | | 1541 | 4.19 | 2819 | 5.33 | | | | | | | 613 | 1687 | 2483 | 2952 | | |
| NF7CLX | 105F1725 | L/MBP | 776 | 2300 | 3507 | 4254 | | | 1541 | 4.19 | 2819 | 5.33 | | | | | | | 613 | 1687 | 2483 | 2952 | | |
| NF7CLX | 105F1727 | L/MBP | 776 | 2300 | 3507 | 4254 | | | 1541 | 4.19 | 2819 | 5.33 | | | | | | | 613 | 1687 | 2483 | 2952 | | |

R404A/R507 • 115 V • 60 Hz • N-Series • Electrical Equipment

| Compressor * pre-assembled start equipment | Code number | LST (RSIR & RSCR) - refer to data sheet for more info | | | | | Run capacitor (RC) | | | HST (CSIR & CSR) - * alt. cable lengths avail. | | | | LST/HST | |
|--|-------------|---|-----------|--|----------|-------------------------|---|----------|----------|--|-----------------------|----------------------|-------------------|----------------|----------|
| | | PTC starting device | | PTC starting device with RC connector | | Protector (external) | optional or compulsory (refer to data sheet) | | | Starting relay | Starting capacitor | Starting device * | Starting kit * | Cord relief | Cover |
| | | Spades | | Spades | | Spades | Spades | | | Spades | | Spades | | | |
| 1/4 inch | 3/16 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 1/4 inch | 1/4 inch | 1/4 inch | | | | |
| NF5.5CLX | 105F1611 | | | | | | | | | 117U4061 | 117U5025 | | | 117U0349 | 117U1021 |
| NF5.5CLX | 105F1612 | | | | | | | | | 117U4061 | 117U5025 | | | 117U0349 | 117U1021 |
| NF5.5CLX | 105F1621 | | | | | | | | | 117U4061 | 117U5025 | | | 117U0349 | 117U1021 |
| NF5.5CLX * | 105F1625 | | | | | | | | | 117U4061 | 117U5025 | | | 117U0349 | 117U1021 |
| NF5.5CLX | 105F1626 | | | | | | | | | 117U4061 | 117U5025 | | | 117U0349 | 117U1021 |
| NF7CLX | 105F1714 | | | | | | | | | 117U4129 | 117U5022 | | | 117U0349 | 117U1021 |
| NF7CLX | 105F1721 | | | | | | | | | 117U4129 | 117U5022 | | | 117U0349 | 117U1021 |
| NF7CLX * | 105F1725 | | | | | | | | | 117U4129 | 117U5022 | | | 117U0349 | 117U1021 |
| NF7CLX | 105F1727 | | | | | | | | | 117U4129 | 117U5022 | | | 117U0349 | 117U1021 |

Refrigerators = 1 | Freezers = 2 | Beverage coolers = 3 | Commercial freezers = 4 | Minibars = 5 | Ice cream cabinets = 6
 Water coolers = 7 | Heat pumps = 8 | Wine coolers = 9 | Display cabinets = 10 | Ice makers = 11

| ARI | | | | | | Power | Displacement | Voltage and frequencies [* dual frequency type with 50/60 Hz] | Compressor cooling cooling [refer data sheet] | Dimensions | | | | | | Application |
|-----------------------------------|------|----------------------------------|------|----------------------------------|-----|-------|--------------|--|---|---------------|-----|---------------------------------|--------------|-----------------|-----------------|-------------|
| LBP rating point -10°F / 120°F | | MBP rating point 20°F / 120°F | | HBP rating point 45°F / 120°F | | | | | | Height [inch] | | Connectors location/I.D. [inch] | | | | |
| Cooling capacity [BTU/h] | EER | Cooling capacity [BTU/h] | EER | Cooling capacity [BTU/h] | EER | | | | | A | B | Suction C | Process D | Dis-charge E | Oil cooler F | |
| 935 | 3.19 | 1848 | 4.43 | | | 1/3 | 0.37 | 95-135 V, 60 Hz | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 4 10 11 |
| 935 | 3.19 | 1848 | 4.43 | | | 1/3 | 0.37 | 95-135 V, 60 Hz | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 4 10 11 |
| 935 | 3.19 | 1848 | 4.43 | | | 1/3 | 0.37 | 95-135 V, 60 Hz | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 4 10 11 |
| 935 | 3.19 | 1848 | 4.43 | | | 1/3 | 0.37 | 95-135 V, 60 Hz | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 4 10 11 |
| 935 | 3.19 | 1848 | 4.43 | | | 1/3 | 0.37 | 95-135 V, 60 Hz | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 4 10 11 |
| 1162 | 3.20 | 2338 | 4.53 | | | 2/5 | 0.44 | 95-135 V, 60 Hz | F2 | 7.8 | 7.5 | 0.32 | 0.24 | 0.24 | X | 4 10 11 |
| 1162 | 3.20 | 2338 | 4.53 | | | 2/5 | 0.44 | 95-135 V, 60 Hz | F2 | 7.8 | 7.5 | 0.32 | 0.26 | 0.26 | X | 4 10 11 |
| 1162 | 3.20 | 2338 | 4.53 | | | 2/5 | 0.44 | 95-135 V, 60 Hz | F2 | 7.8 | 7.5 | 0.32 | 0.26 | 0.26 | X | 4 10 11 |
| 1162 | 3.20 | 2338 | 4.53 | | | 2/5 | 0.44 | 95-135 V, 60 Hz | F2 | 7.8 | 7.5 | 0.32 | 0.26 | 0.26 | X | 4 10 11 |



R404A/R507 • 115 V • 60 Hz • S-Series

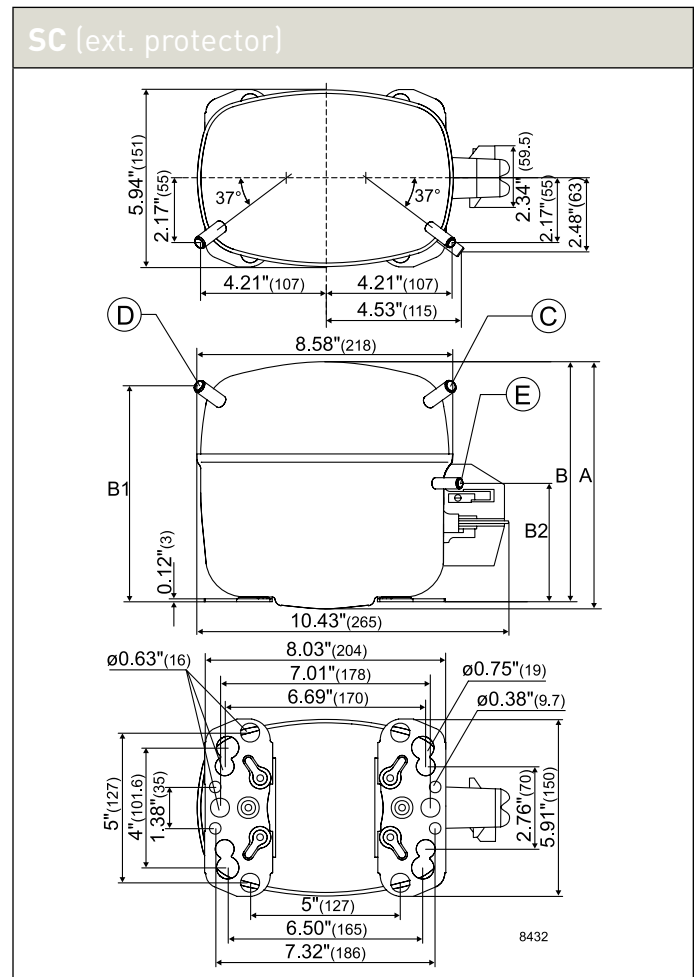
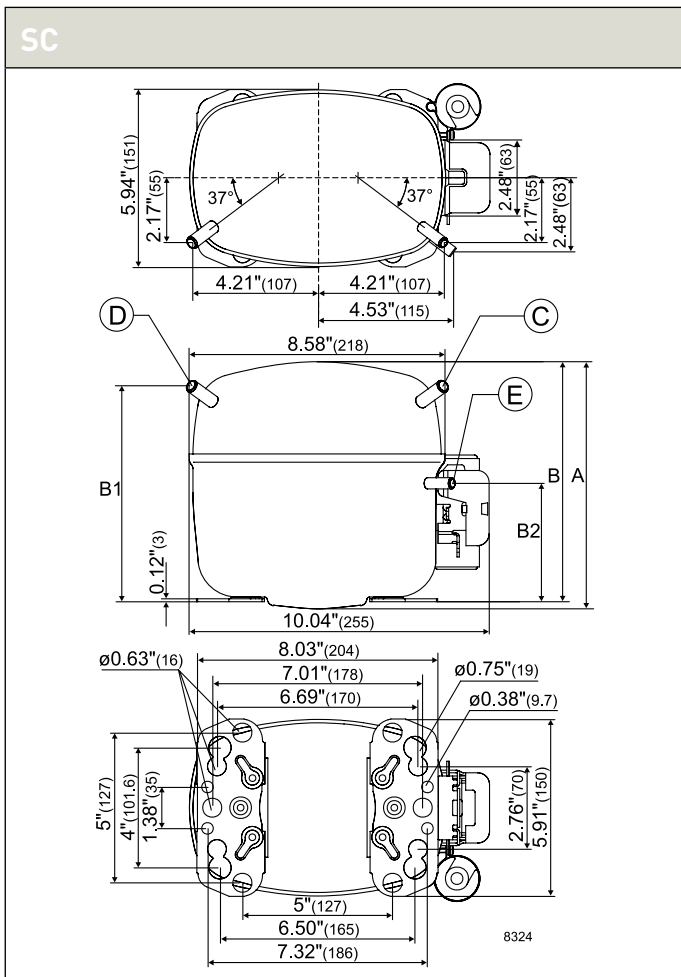
| Compressor | Code number | Application | ASHRAE Capacity [BTU/h] T _c =130°F, T _{liq} =90°F, T _{suc} =90°F Evaporating temperature [°F] | | | | | | ASHRAE | | | | | | ARI Capacity [BTU/h] T _c =120°F, T _{liq} =120°F, T _{suc} =40°F Evaporating temperature [°F] | | | | | |
|------------|-------------|-------------|--|------|------|------|----|------|----------------------------------|-----------------|-----------------------------|-----------------|----------------------------------|-----------------|--|------|------|----|----|----|
| | | | LBP rating point -10°F / 130°F | | | | | | MBP rating point 20°F / 130°F | | | | HBP rating point 45°F / 130°F | | | | | | | |
| | | | -31 | 5 | 23 | 32 | 50 | 59 | Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | -31 | 5 | 23 | 32 | 50 | 59 |
| SC10CL | 104L1503 | L/MBP | 443 | 2388 | 3942 | 4914 | | 1422 | 3.37 | 3135 | 4.86 | | | 404 | 1893 | 2985 | 3630 | | | |
| SC10CL | 104L1509 | L/MBP | 443 | 2388 | 3942 | 4914 | | 1422 | 3.37 | 3135 | 4.86 | | | 404 | 1893 | 2985 | 3630 | | | |
| SC12CL | 104L1603 | LBP | 771 | 3744 | | | | 2378 | 3.78 | | | | | 696 | 2658 | | | | | |
| SC12CL | 104L1612 | LBP | 771 | 3744 | | | | 2378 | 3.78 | | | | | 696 | 2658 | | | | | |
| SC12CLX.2 | 104L1686 | LBP | 1036 | 3771 | | | | 2470 | 3.89 | | | | | 862 | 2711 | | | | | |
| SC12CLX.2 | 104L1696 | LBP | 1036 | 3771 | | | | 2470 | 3.89 | | | | | 862 | 2711 | | | | | |
| SC12CLX.2 | 104L1698 | LBP | 1036 | 3771 | | | | 2470 | 3.89 | | | | | 862 | 2711 | | | | | |
| SC15CLX.2 | 104L1853 | LBP | 1409 | 4564 | | | | 3005 | 4.12 | | | | | 1146 | 3341 | | | | | |
| SC18CLX.2 | 104L2190 | LBP | 1712 | 5121 | | | | 3664 | 4.48 | | | | | 1379 | 3684 | | | | | |
| SC18CLX.2 | 104L2198 | LBP | 1712 | 5121 | | | | 3664 | 4.48 | | | | | 1379 | 3684 | | | | | |
| SC18CLX.2 | 104L2199 | LBP | 1712 | 5121 | | | | 3664 | 4.48 | | | | | 1379 | 3684 | | | | | |
| SC12MLX | 104L1606 | MBP | | 3500 | 5481 | 6735 | | | | 4386 | 5.20 | | | | 2586 | 3904 | 4701 | | | |
| SC15MLX | 104L1805 | MBP | | 4101 | 6419 | 7886 | | | | 5136 | 4.80 | | | | 3030 | 4572 | 5504 | | | |
| SC18MLX | 104L2105 | MBP | | 5191 | 7947 | 9691 | | | | 6378 | 5.03 | | | | 3805 | 5633 | 6739 | | | |
| SC15MLX.2 | 104L1807 | MBP | | 4212 | 6466 | 7892 | | | | 5187 | 5.14 | | | | 3090 | 4586 | 5490 | | | |

R404A/R507 • 115 V • 60 Hz • S-Series • Electrical Equipment

| Compressor * pre-assembled start equipment | Code number | LST (RSIR & RSCR) - refer to data sheet for more info | | | | | Run capacitor (RC) | | HST (CSIR & CSR) - * alt. cable lengths avail. | | | | LST/HST | |
|--|-------------|---|-----------|--|-----------|-------------------------|---|-----------|--|-----------------------|----------------------|-------------------|----------------|----------|
| | | PTC starting device | | PTC starting device with RC connector | | Protector (external) | optional or compulsory (refer to data sheet) | | Starting relay | Starting capacitor | Starting device * | Starting kit * | Cord relief | Cover |
| | | Spades | | Spades | | Spades | Spades | | Spades | | Spades | | | |
| | | 1/4 inch | 3/16 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 1/4 inch | 1/4 inch | | |
| SC10CL | 104L1503 | | | | | | | | 117U6020 | 117U5023 | | | 103N1004 | 103N2008 |
| SC10CL * | 104L1509 | | | | | | | | 117U6020 | 117U5023 | | | 103N1004 | 103N2008 |
| SC12CL | 104L1603 | | | | | | | | 117U6020 | 117U5023 | | | 103N1004 | 103N2008 |
| SC12CL | 104L1612 | | | | | | | | 117U6020 | 117U5023 | | | 103N1004 | 103N2008 |
| SC12CLX.2 | 104L1686 | | | | | | | | 117U6020 | 117U5023 | | | 103N1004 | 103N2008 |
| SC12CLX.2 | 104L1696 | | | | | | | | 117U6020 | 117U5023 | | | 103N1004 | 103N2008 |
| SC12CLX.2 * | 104L1698 | | | | | | | | 117U6020 | 117U5023 | | | 103N1004 | 103N2008 |
| SC15CLX.2 | 104L1853 | | | | | | | 117-7114 | 117-7441 | 117U5043 | 117-7045 | | | 117U1021 |
| SC18CLX.2 | 104L2190 | | | | | | | 117-7114 | 117-7441 | 117U5043 | 117-7045 | | | 117U1021 |
| SC18CLX.2 | 104L2198 | | | | | | | 117-7114 | 117-7441 | 117U5043 | 117-7045 | | | 117U1021 |
| SC18CLX.2 | 104L2199 | | | | | | | | | | 117-7069 | | | 117U1021 |
| SC12MLX | 104L1606 | | | | | | | | 117-7441 | 117U5042 | 117-7053 | | | 117U1021 |
| SC15MLX | 104L1805 | | | | | | | 117-7114 | 117-7441 | 117U5043 | 117-7045 | | | 117U1021 |
| SC18MLX | 104L2105 | | | | | | | 117-7114 | 117-7441 | 117U5043 | 117-7045 | | | 117U1021 |
| SC15MLX.2 | 104L1807 | | | | | | | 117-7114 | 117-7441 | 117U5043 | 117-7045 | | | 117U1021 |

Refrigerators = 1 | Freezers = 2 | Beverage coolers = 3 | Commercial freezers = 4 | Minibars = 5 | Ice cream cabinets = 6
 Water coolers = 7 | Heat pumps = 8 | Wine coolers = 9 | Display cabinets = 10 | Ice makers = 11

| ARI | | | | | | Power | Displacement | Voltage and frequencies [* dual frequency type with 50/60 Hz] | Compressor cooling (refer data sheet) | Dimensions | | | | | | Application |
|-----------------------------------|------|----------------------------------|------|----------------------------------|-----|-------|--------------|--|--|---------------|-----|---------------------------------|--------------|-----------------|-----------------|-------------|
| LBP rating point -10°F / 120°F | | MBP rating point 20°F / 120°F | | HBP rating point 45°F / 120°F | | | | | | Height [inch] | | Connectors location/I.D. [inch] | | | | |
| Cooling capacity [BTU/h] | EER | Cooling capacity [BTU/h] | EER | Cooling capacity [BTU/h] | EER | | | | | A | B | Suction C | Process D | Dis-charge E | Oil cooler F | |
| 1172 | 2.71 | 2784 | 4.35 | | | 1/2 | 0.63 | 103-127 V, 60 Hz | F2 | 8.2 | 8.0 | 0.32 | 0.26 | 0.26 | X | 4 10 11 |
| 1172 | 2.71 | 2784 | 4.35 | | | 1/2 | 0.63 | 103-127 V, 60 Hz | F2 | 8.2 | 8.0 | 0.32 | 0.26 | 0.26 | X | 4 10 11 |
| 1755 | 2.79 | | | | | 3/5 | 0.79 | 103-127 V, 60 Hz | F2 | 8.2 | 8.0 | 0.32 | 0.26 | 0.26 | X | 4 |
| 1755 | 2.79 | | | | | 3/5 | 0.79 | 103-127 V, 60 Hz | F2 | 8.2 | 8.0 | 0.32 | 0.26 | 0.26 | X | 4 |
| 1836 | 2.93 | | | | | 3/4 | 0.79 | 103-127 V, 60 Hz | F2 | 8.2 | 8.0 | 0.38 | 0.26 | 0.26 | X | 4 |
| 1836 | 2.93 | | | | | 3/4 | 0.79 | 103-127 V, 60 Hz | F2 | 8.2 | 8.0 | 0.32 | 0.26 | 0.26 | X | 4 |
| 1836 | 2.93 | | | | | 3/4 | 0.79 | 103-127 V, 60 Hz | F2 | 8.2 | 8.0 | 0.32 | 0.26 | 0.26 | X | 4 |
| 2270 | 3.19 | | | | | 5/6 | 0.93 | 103-127 V, 60 Hz | F2 | 8.6 | 8.4 | 0.38 | 0.26 | 0.26 | | 4 |
| 2663 | 3.30 | | | | | 1 | 1.08 | 103-127 V, 60 Hz | F2 | 8.6 | 8.4 | 0.38 | 0.26 | 0.26 | X | 4 |
| 2663 | 3.30 | | | | | 1 | 1.08 | 103-127 V, 60 Hz | F2 | 8.6 | 8.4 | 0.38 | 0.26 | 0.26 | X | 4 |
| 2663 | 3.30 | | | | | 1 | 1.08 | 103-127 V, 60 Hz | F2 | 8.6 | 8.4 | 0.38 | 0.26 | 0.26 | X | 4 |
| | | 3658 | 4.50 | | | 3/4 | 0.79 | 95-135 V, 60 Hz | F2 | 8.6 | 8.4 | 0.32 | 0.26 | 0.26 | | 10 11 |
| | | 4285 | 4.16 | | | 3/4 | 0.93 | 95-135 V, 60 Hz | F2 | 8.6 | 8.4 | 0.38 | 0.26 | 0.26 | | 10 11 |
| | | 5293 | 4.32 | | | 1 | 1.08 | 103-127 V, 60 Hz | F2 | 8.6 | 8.4 | 0.38 | 0.26 | 0.26 | | 10 11 |
| | | 4308 | 4.43 | | | 3/4 | 0.93 | 103-127 V, 60 Hz | F2 | 8.6 | 8.4 | 0.38 | 0.26 | 0.26 | | 10 11 |



WITH MORE THAN 60 YEARS OF EXPERIENCE IN COMPRESSOR TECHNOLOGY AND HIGHLY DEDICATED EMPLOYEES, OUR FOCUS IS ON DEVELOPING AND

APPLYING ADVANCED COMPRESSOR TECHNOLOGIES TO ACHIEVE STANDARD SETTING PERFORMANCE FOR LEADING PRODUCTS AND BUSINESSES AROUND THE WORLD.

R290

115 V | 60 Hz



| | |
|----------------|---------|
| T-Series | 96-97 |
| D-Series | 98-99 |
| N-Series..... | 100-101 |
| S-Series | 102-103 |

Chemical formula

C₃H₈

Typelabel

Typelabel stripe colour: Red
Typelabel colour: Green

Applications

- LBP:** Low Back Pressure
- HBP:** High Back Pressure
- MBP:** Medium Back Pressure

Motor types

- RSIR:** Resistant Start Induction Run
- RSCR:** Resistant Start Capacitor Run
- CSIR:** Capacitor Start Induction Run
- CSR:** Capacitor Start Run

Compressor cooling

- S = Static cooling normally sufficient
- O = Oil cooling
- F₁ = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
- F₂ = Fan cooling 3.0 m/s necessary

Starting devices

LST: Low Starting Torque

LST is used with capillary tube control and pressure equalizing. (Pressure equalizing may exceed 10 minutes). The PTC starting device requires 5 minutes cooling before each start.

To fulfil the requirements of EN 60355-2-34 the protection screen 103N0476 must be applied to the PTC starting device.

HST: High Starting Torque

HST consisting of relay and starting capacitor is used for expansion valve control or for capillary tube control without pressure equalizing.

ePTC: Electronically controlled PTC

- Compressor restart possible after a few seconds
- Operational wattage loss reduced by 2 watt
- PTC protection screen not needed (surface temp. < 179.6 °F)
- Temperature resistant up to min. +140 °F

Test conditons

Electrical equipment being used is listed in our data sheets

1 Watt = 0.86 kcal/h

1 Watt = 3.41 Btu/h





R290 • 115 V • 60 Hz • T-Series

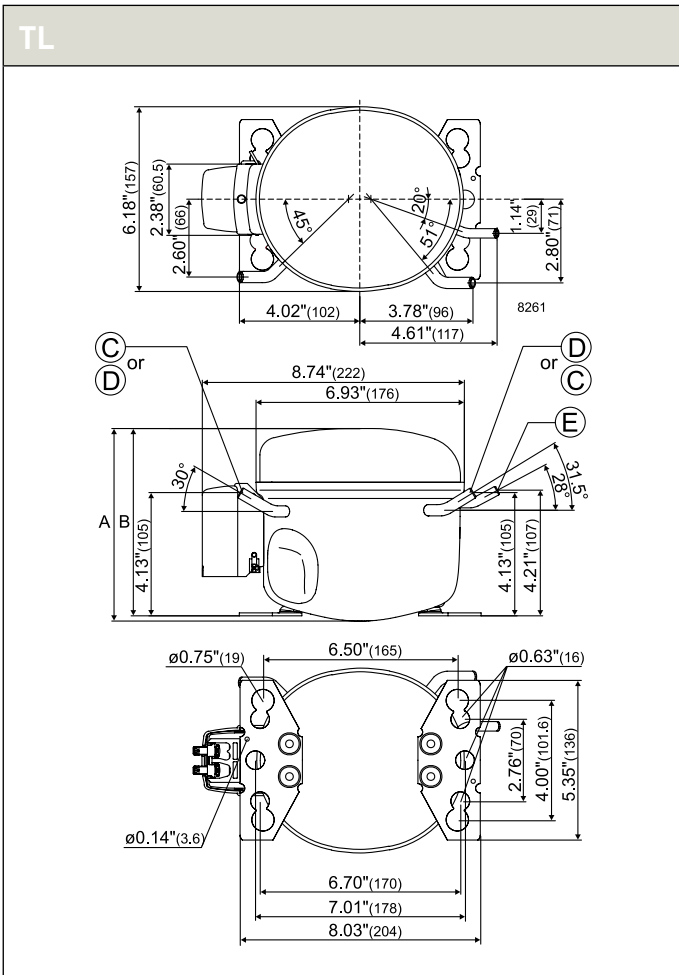
| Compressor | Code number | Application | ASHRAE Capacity [BTU/h] T _c =130°F, T _{liq} =90°F, T _{suc} =90°F Evaporating temperature [°F] | | | | | | ASHRAE | | | | | | ARI Capacity [BTU/h] T _c =120°F, T _{liq} =120°F, T _{suc} =40°F Evaporating temperature [°F] | | | | | | | |
|------------|-------------|-------------|--|------|------|------|----|----|----------------------------------|----------|---------|----------|----------------------------------|----------|--|------|------|------|----|----|--|--|
| | | | LBP rating point -10°F / 130°F | | | | | | MBP rating point 20°F / 130°F | | | | HBP rating point 45°F / 130°F | | | | | | | | | |
| | | | Cooling capacity | | EER | | | | Cooling capacity | | EER | | Cooling capacity | | EER | | | | | | | |
| | | | -31 | 5 | 23 | 32 | 50 | 59 | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | -31 | 5 | 23 | 32 | 50 | 59 | | |
| TL4.0CNX.2 | 102H3490 | L/MBP | 365 | 1058 | 1594 | 1929 | | | 722 | 4.31 | 1336 | 6.12 | | | 319 | 854 | 1272 | 1530 | | | | |
| TL4.0CNX.2 | 102H3491 | L/MBP | 365 | 1058 | 1594 | 1929 | | | 722 | 4.31 | 1336 | 6.12 | | | 319 | 854 | 1272 | 1530 | | | | |
| TL4.8CNX.2 | 102H3590 | L/MBP | 468 | 1296 | 1908 | 2276 | | | 895 | 4.57 | 1607 | 6.14 | | | 401 | 1047 | 1524 | 1807 | | | | |
| TL4.8CNX.2 | 102H3591 | L/MBP | 468 | 1296 | 1908 | 2276 | | | 895 | 4.57 | 1607 | 6.14 | | | 401 | 1047 | 1524 | 1807 | | | | |

R290 • 115 V • 60 Hz • T-Series • Electrical Equipment

| Compressor * pre-assembled start equipment | Code number | LST (RSIR & RSCR) - refer to data sheet for more info | | | | | Run capacitor (RC) | | HST (CSIR & CSR) - * alt. cable lengths avail. | | | | LST/HST | |
|--|-------------|---|-----------|--|-----------|-------------------------|---|-----------|--|-----------------------|----------------------|-------------------|----------------|----------|
| | | PTC starting device | | PTC starting device with RC connector | | Protector (external) | optional or compulsory (refer to data sheet) | | Starting relay | Starting capacitor | Starting device * | Starting kit * | Cord relief | Cover |
| | | Spades | | Spades | | Spades | Spades | | Spades | | Spades | | | |
| | | 1/4 inch | 3/16 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 1/4 inch | 1/4 inch | | |
| TL4.0CNX.2 | 102H3490 | | | | | | | | 117U7005 | 117U5023 | | | 103N1010 | 103N2011 |
| TL4.0CNX.2 * | 102H3491 | | | | | | | | 117U7005 | 17U5023 | | | 103N1010 | 103N2011 |
| TL4.8CNX.2 | 102H3590 | | | | | | | | 117U7005 | 117U5023 | | | 103N1010 | 103N2011 |
| TL4.8CNX.2 * | 102H3591 | | | | | | | | 117U7005 | 117U5023 | | | 103N1010 | 103N2011 |

Refrigerators = 1 | Freezers = 2 | Beverage coolers = 3 | Commercial freezers = 4 | Minibars = 5 | Ice cream cabinets = 6
 Water coolers = 7 | Heat pumps = 8 | Wine coolers = 9 | Display cabinets = 10 | Ice makers = 11

| ARI | | | | | | Power | Displacement | Voltage and frequencies [* dual frequency type with 50/60 Hz] | Compressor cooling [refer-data sheet] | Dimensions | | | | | | | Application |
|-----------------------------------|----------|----------------------------------|----------|----------------------------------|----------|-------|--------------|--|--|---------------|------------|---------------------------------|---------|------------|------------|---------------------------|-------------|
| LBP rating point -10°F / 120°F | | MBP rating point 20°F / 120°F | | HBP rating point 45°F / 120°F | | | | | | Height [inch] | | Connectors location/I.D. [inch] | | | | | |
| Cooling capacity | EER | Cooling capacity | EER | Cooling capacity | EER | | | | | A | B | Suction | Process | Dis-charge | Oil cooler | alt. connectors available | |
| [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | | | | | [HP] | [cu. inch] | | | | | | |
| 591 | 3.61 | 1194 | 5.73 | | | 1/5 | 0.24 | 95-135 V, 60 Hz | F2 | 6.8 | 6.7 | 0.26 | 0.26 | 0.20 | X | 3 4 5 7 10 11 | |
| 591 | 3.61 | 1194 | 5.73 | | | 1/5 | 0.24 | 95-135 V, 60 Hz | F2 | 6.8 | 6.7 | 0.26 | 0.26 | 0.20 | X | 3 4 5 7 10 11 | |
| 732 | 3.81 | 1437 | 5.73 | | | 1/4 | 0.29 | 95-135 V, 60 Hz | F2 | 6.8 | 6.7 | 0.26 | 0.26 | 0.20 | X | 3 4 5 7 10 11 | |
| 732 | 3.81 | 1437 | 5.73 | | | 1/4 | 0.29 | 95-135 V, 60 Hz | F2 | 6.8 | 6.7 | 0.26 | 0.26 | 0.20 | X | 3 4 5 7 10 11 | |



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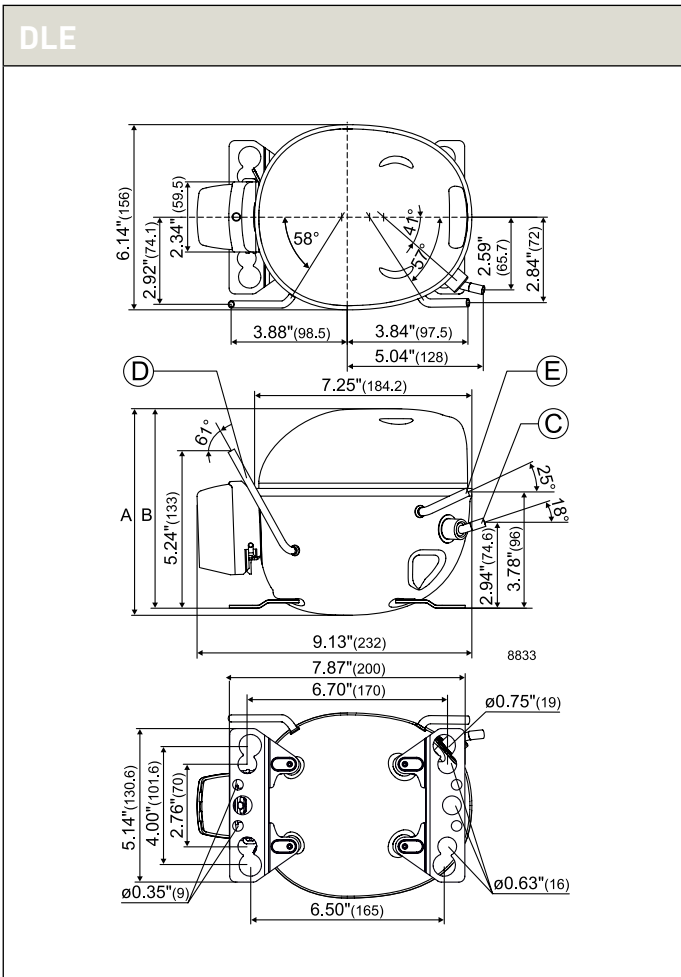
| Compressor | Code number | Application | ASHRAE Capacity [BTU/h] T _c =130°F, T _{liq} =90°F, T _{suc} =90°F Evaporating temperature [°F] | | | | | | ASHRAE | | | | | | ARI Capacity [BTU/h] T _c =120°F, T _{liq} =120°F, T _{suc} =40°F Evaporating temperature [°F] | | | | | |
|------------|-------------|-------------|--|------|------|----------------------------------|----|-----|----------------------------------|----------|---------|----------|---------|----------|--|------|------|------|----|----|
| | | | LBP rating point -10°F / 130°F | | | MBP rating point 20°F / 130°F | | | HBP rating point 45°F / 130°F | | | | | | | | | | | |
| | | | Cooling capacity | | EER | Cooling capacity | | EER | Cooling capacity | | EER | | | | | | | | | |
| | | | -31 | 5 | 23 | 32 | 50 | 59 | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | -31 | 5 | 23 | 32 | 50 | 59 |
| DLE4CN | 102H3482 | L/MBP | 445 | 1152 | 1719 | 2070 | | | 799 | 5.40 | 1443 | 7.48 | | | 372 | 934 | 1369 | 1633 | | |
| DLE4CN | 102H3483 | L/MBP | 445 | 1152 | 1719 | 2070 | | | 799 | 5.40 | 1443 | 7.48 | | | 372 | 934 | 1369 | 1633 | | |
| DLE4CN | 102H3484 | L/MBP | 445 | 1152 | 1719 | 2070 | | | 799 | 5.40 | 1443 | 7.48 | | | 372 | 934 | 1369 | 1633 | | |
| DLE4CN | 102H3485 | L/MBP | 445 | 1152 | 1719 | 2070 | | | 799 | 5.40 | 1443 | 7.48 | | | 372 | 934 | 1369 | 1633 | | |
| DLE4CN | 102H3489 | L/MBP | 445 | 1152 | 1719 | 2070 | | | 799 | 5.40 | 1443 | 7.48 | | | 372 | 934 | 1369 | 1633 | | |
| DLE4.8CN | 102H3582 | L/MBP | 536 | 1420 | 2086 | 2495 | | | 991 | 5.34 | 1756 | 7.32 | | | 465 | 1144 | 1662 | 1975 | | |
| DLE4.8CN | 102H3583 | L/MBP | 536 | 1420 | 2086 | 2495 | | | 991 | 5.34 | 1756 | 7.32 | | | 465 | 1144 | 1662 | 1975 | | |
| DLE4.8CN | 102H3584 | L/MBP | 536 | 1420 | 2086 | 2495 | | | 991 | 5.34 | 1756 | 7.32 | | | 465 | 1144 | 1662 | 1975 | | |
| DLE4.8CN | 102H3585 | L/MBP | 536 | 1420 | 2086 | 2495 | | | 991 | 5.34 | 1756 | 7.32 | | | 465 | 1144 | 1662 | 1975 | | |
| DLE4.8CN | 102H3587 | L/MBP | 536 | 1420 | 2086 | 2495 | | | 991 | 5.34 | 1756 | 7.32 | | | 465 | 1144 | 1662 | 1975 | | |
| DLE5.7CN | 102H3682 | L/MBP | 665 | 1709 | 2496 | 2973 | | | 1200 | 5.46 | 2104 | 7.22 | | | 558 | 1370 | 1976 | 2336 | | |
| DLE5.7CN | 102H3683 | L/MBP | 660 | 1689 | 2469 | 2945 | | | 1188 | 5.10 | 2080 | 6.69 | | | 554 | 1354 | 1954 | 2314 | | |
| DLE6.5CN | 102H3792 | L/MBP | 712 | 1859 | 2753 | 3319 | | | 1303 | 5.48 | 2313 | 7.19 | | | 597 | 1497 | 2183 | 2608 | | |
| DLE6.5CN | 102H3793 | L/MBP | 697 | 1832 | 2724 | 3295 | | | 1283 | 5.11 | 2286 | 6.69 | | | 585 | 1475 | 2161 | 2590 | | |

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| Compressor * pre-assembled start equipment | Code number | LST (RSIR & RSCR) - refer to data sheet for more info | | | | | Run capacitor (RC) | | HST (CSIR & CSR) - * alt. cable lengths avail. | | | | LST/HST | |
|--|-------------|---|-----------|--|-----------|----------|---|-----------|--|-----------------------|----------------------|-------------------|----------------|----------|
| | | PTC starting device | | PTC starting device with RC connector | | ePTC | optional or compulsory (refer to data sheet) | | Starting relay | Starting capacitor | Starting device * | Starting kit * | Cord relief | Cover |
| | | Spades | | Spades | | Spades | Spades | | Spades | | Spades | | | |
| | | 1/4 inch | 3/16 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 1/4 inch | 1/4 inch | | |
| DLE4CN | 102H3482 | | | | | | 117-7118 | 117-7120 | 117U7022 | 117U5023 | | | 103N1010 | 103N0492 |
| DLE4CN * | 102H3483 | | | | | | | | 117U7022 | 117U5023 | | | 103N1010 | 103N0492 |
| DLE4CN * | 102H3484 | | | | | | | | | | | | 103N1010 | 103N0492 |
| DLE4CN * | 102H3485 | | | | | | 117-7148 | | | | | | 103N1010 | 103N0492 |
| DLE4CN | 102H3489 | | | | | | 117-7118 | 117-7120 | 117U7022 | 117U5023 | | | 103N1010 | 103N0492 |
| DLE4.8CN | 102H3582 | | | | | | 117-7118 | 117-7120 | 117U7011 | 117U5023 | | | 103N1010 | 103N0492 |
| DLE4.8CN * | 102H3583 | | | | | | | | 117U7011 | 117U5023 | | | 103N1010 | 103N0492 |
| DLE4.8CN * | 102H3584 | | | | | | | | | | | | 103N1010 | 103N0492 |
| DLE4.8CN * | 102H3585 | | | | | | 117-7148 | | | | | | 103N1010 | 103N0492 |
| DLE4.8CN | 102H3587 | | | | | | 117-7118 | 117-7120 | 117U7011 | 117U5023 | | | 103N1010 | 103N0492 |
| DLE5.7CN | 102H3682 | | | | | | 117-7118 | 117-7120 | 117U7011 | 117U5023 | | | 103N1010 | 103N0492 |
| DLE5.7CN * | 102H3683 | | | | | | | | 117U7011 | 117U5023 | | | 103N1010 | 103N0492 |
| DLE6.5CN | 102H3792 | | | | | | 117-7118 | | 117U7013 | 117U5023 | | | 103N1010 | 103N0492 |
| DLE6.5CN * | 102H3793 | | | | | | | | 117U7013 | 117U5023 | | | 103N1010 | 103N0492 |

Refrigerators = 1 | Freezers = 2 | Beverage coolers = 3 | Commercial freezers = 4 | Minibars = 5 | Ice cream cabinets = 6
 Water coolers = 7 | Heat pumps = 8 | Wine coolers = 9 | Display cabinets = 10 | Ice makers = 11

| ARI | | | | | | Power | Displacement | Voltage and frequencies [* dual frequency type with 50/60 Hz] | Compressor cooling cooling (refer-data sheet) | Dimensions | | | | | | alt. connectors available | Application |
|-----------------------------------|----------|----------------------------------|----------|----------------------------------|----------|-------|--------------|--|---|---------------|-----|---------------------------------|---------|------------|------------|---------------------------|-------------|
| LBP rating point -10°F / 120°F | | MBP rating point 20°F / 120°F | | HBP rating point 45°F / 120°F | | | | | | Height [inch] | | Connectors location/I.D. [inch] | | | | | |
| Cooling capacity | EER | Cooling capacity | EER | Cooling capacity | EER | | | | | A | B | Suction | Process | Dis-charge | Oil cooler | | |
| [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | [HP] | [cu. inch] | | | | | | | | | | |
| 655 | 4.54 | 1288 | 7.02 | | | 1/5 | 0.24 | 95-135 V, 60 Hz | F2 | 6.9 | 6.7 | 0.32 | 0.26 | 0.26 | X | 3 4 6 10 11 | |
| 655 | 4.54 | 1288 | 7.02 | | | 1/5 | 0.24 | 95-135 V, 60 Hz | F2 | 6.9 | 6.7 | 0.32 | 0.26 | 0.26 | X | 3 4 6 10 11 | |
| 655 | 4.54 | 1288 | 7.02 | | | 1/5 | 0.24 | 95-135 V, 60 Hz | F2 | 6.9 | 6.7 | 0.32 | 0.26 | 0.26 | X | 3 4 6 10 11 | |
| 655 | 4.54 | 1288 | 7.02 | | | 1/5 | 0.24 | 95-135 V, 60 Hz | F2 | 6.9 | 6.7 | 0.32 | 0.26 | 0.26 | X | 3 4 6 10 11 | |
| 655 | 4.54 | 1288 | 7.02 | | | 1/5 | 0.24 | 95-135 V, 60 Hz | F2 | 6.9 | 6.7 | 0.32 | 0.26 | 0.26 | X | 3 4 6 10 11 | |
| 811 | 4.47 | 1566 | 6.82 | | | 1/4 | 0.29 | 95-135 V, 60 Hz | F2 | 6.9 | 6.7 | 0.32 | 0.26 | 0.26 | X | 3 4 6 10 11 | |
| 811 | 4.47 | 1566 | 6.82 | | | 1/4 | 0.29 | 95-135 V, 60 Hz | F2 | 6.9 | 6.7 | 0.32 | 0.26 | 0.26 | X | 3 4 6 10 11 | |
| 811 | 4.47 | 1566 | 6.82 | | | 1/4 | 0.29 | 95-135 V, 60 Hz | F2 | 6.9 | 6.7 | 0.32 | 0.26 | 0.26 | X | 3 4 6 10 11 | |
| 811 | 4.47 | 1566 | 6.82 | | | 1/4 | 0.29 | 95-135 V, 60 Hz | F2 | 6.9 | 6.7 | 0.32 | 0.26 | 0.26 | X | 3 4 6 10 11 | |
| 811 | 4.47 | 1566 | 6.82 | | | 1/4 | 0.29 | 95-135 V, 60 Hz | F2 | 6.9 | 6.7 | 0.32 | 0.26 | 0.26 | X | 3 4 6 10 11 | |
| 973 | 4.57 | 1864 | 6.75 | | | 3/10 | 0.35 | 95-135 V, 60 Hz | F2 | 6.9 | 6.7 | 0.32 | 0.26 | 0.26 | X | 3 4 6 10 11 | |
| 963 | 4.27 | 1844 | 6.26 | | | 3/10 | 0.35 | 95-135 V, 60 Hz | F2 | 6.9 | 6.7 | 0.32 | 0.26 | 0.26 | X | 3 4 6 10 11 | |
| 1062 | 4.59 | 2054 | 6.72 | | | 1/3 | 0.40 | 95-135 V, 60 Hz | F2 | 6.9 | 6.7 | 0.32 | 0.26 | 0.26 | X | 3 4 6 10 11 | |
| 1045 | 4.28 | 2031 | 6.26 | | | 1/3 | 0.40 | 95-135 V, 60 Hz | F2 | 6.9 | 6.7 | 0.32 | 0.26 | 0.26 | X | 3 4 6 10 11 | |



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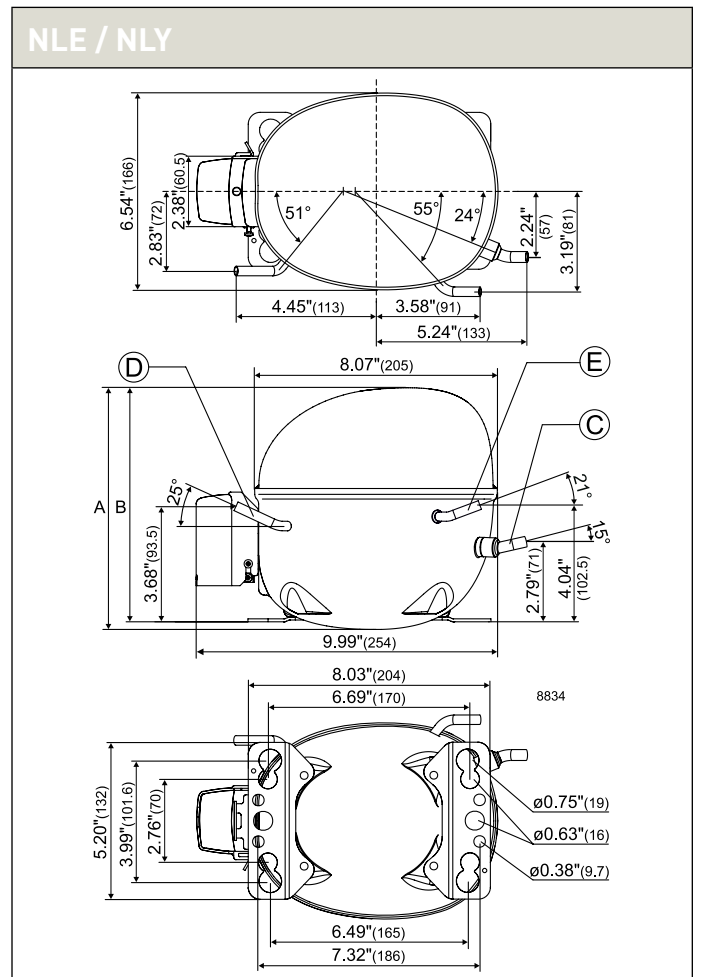
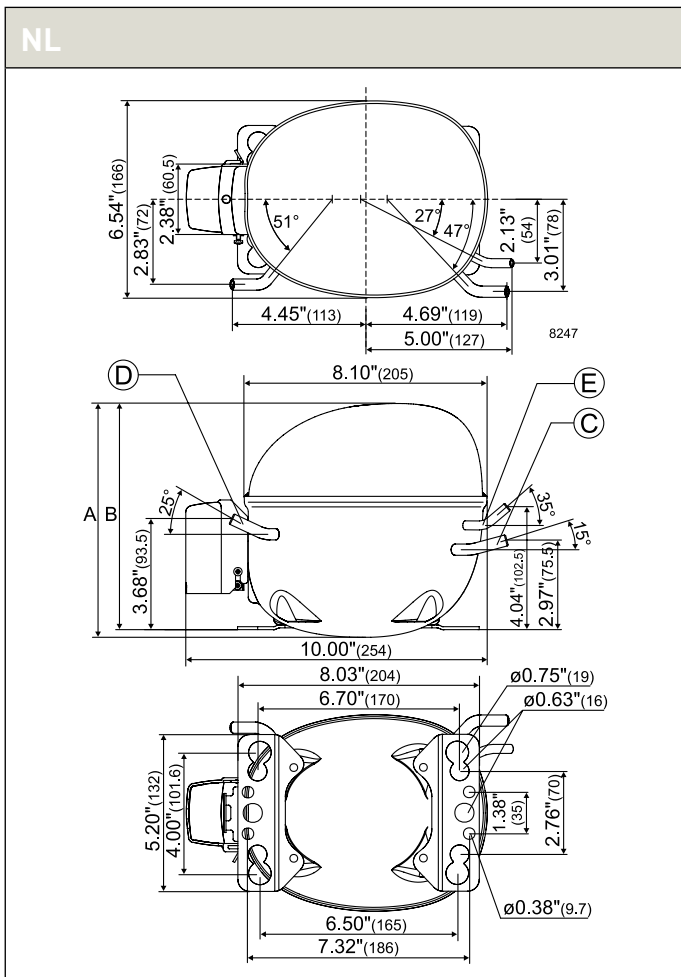
| Compressor | Code number | Application | ASHRAE Capacity [BTU/h] T _c =130°F, T _{liq} =90°F, T _{suc} =90°F Evaporating temperature [°F] | | | | | | ASHRAE | | | | | | ARI Capacity [BTU/h] T _c =120°F, T _{liq} =120°F, T _{suc} =40°F Evaporating temperature [°F] | | | | | | | | | |
|------------|-------------|-------------|--|------|------|------|----|----|----------------------------------|-----------------|----------------------------------|-----------------|-----------------------------|-----------------|--|---|----|----|------|------|------|------|--|--|
| | | | LBP rating point -10°F / 130°F | | | | | | MBP rating point 20°F / 130°F | | HBP rating point 45°F / 130°F | | | | | | | | | | | | | |
| | | | -31 | 5 | 23 | 32 | 50 | 59 | Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | Cooling capacity [BTU/h] | EER [BTU/Wh] | -31 | 5 | 23 | 32 | 50 | 59 | | | | |
| NL8.4CNX.2 | 105H6090 | L/MBP | 909 | 2384 | 3541 | 4259 | | | 1658 | 5.01 | 2975 | 6.55 | | | | | | | 763 | 1932 | 2824 | 3365 | | |
| NL8.4CNX.2 | 105H6092 | L/MBP | 909 | 2384 | 3541 | 4259 | | | 1658 | 5.01 | 2975 | 6.55 | | | | | | | 763 | 1932 | 2824 | 3365 | | |
| NLE8.0CN | 105H6093 | L/MBP | 845 | 2266 | 3343 | 4016 | | | 1583 | 5.81 | 2811 | 7.74 | | | | | | | 731 | 1834 | 2663 | 3171 | | |
| NLE8.8CN | 105H6094 | L/MBP | 1024 | 2549 | 3755 | 4478 | | | 1775 | 5.72 | 3162 | 7.66 | | | | | | | 841 | 2057 | 2968 | 3499 | | |
| NLE8.0CN | 105H6095 | L/MBP | 845 | 2266 | 3343 | 4016 | | | 1583 | 5.81 | 2811 | 7.74 | | | | | | | 731 | 1834 | 2663 | 3171 | | |
| NLE8.8CN | 105H6096 | L/MBP | 1007 | 2518 | 3711 | 4424 | | | 1751 | 5.37 | 3125 | 7.11 | | | | | | | 834 | 2031 | 2931 | 3454 | | |
| NLE8.0CN | 105H6097 | L/MBP | 845 | 2266 | 3343 | 4016 | | | 1583 | 5.81 | 2811 | 7.74 | | | | | | | 731 | 1834 | 2663 | 3171 | | |
| NLE8.0CN | 105H6098 | L/MBP | 845 | 2266 | 3343 | 4016 | | | 1583 | 5.81 | 2811 | 7.74 | | | | | | | 731 | 1834 | 2663 | 3171 | | |
| NLE10CN | 105H6194 | L/MBP | 1203 | 3011 | 4401 | 5228 | | | 2107 | 5.72 | 3711 | 7.69 | | | | | | | 991 | 2402 | 3446 | 4051 | | |
| NLE10CN | 105H6195 | L/MBP | 1203 | 3011 | 4401 | 5228 | | | 2107 | 5.72 | 3711 | 7.69 | | | | | | | 991 | 2402 | 3446 | 4051 | | |
| NLE11CNL | 105H5981 | LBP | 1336 | 3361 | | | | | 2340 | 6.04 | | | | | | | | | 1089 | 2683 | | | | |
| NLE11CNL | 105H5983 | LBP | 1336 | 3361 | | | | | 2340 | 6.04 | | | | | | | | | 1089 | 2683 | | | | |
| NLE11MN | 105H5980 | MBP | | 3389 | 4944 | 5875 | | | 2337 | 5.67 | 4170 | 7.51 | 6651 | 10.09 | | | | | 2709 | 3888 | 4583 | 6231 | | |
| NLE11MN | 105H5982 | MBP | | 3389 | 4944 | 5875 | | | 2337 | 5.67 | 4170 | 7.51 | 6651 | 10.09 | | | | | 2709 | 3888 | 4583 | 6231 | | |
| NLY10CN | 105H6164 | L/MBP | 1281 | 2948 | 4394 | 5249 | | | 2040 | 5.76 | 3696 | 7.84 | | | | | | | 994 | 2367 | 3431 | 4034 | | |
| NLY10CN | 105H6165 | L/MBP | 1227 | 2923 | 4335 | 5167 | | | 2023 | 5.46 | 3649 | 7.33 | | | | | | | 965 | 2355 | 3402 | 3995 | | |

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| Compressor * pre-assembled start equipment | Code number | LST (RSIR & RSCR) - refer to data sheet for more info | | | | | Run capacitor (RC) | | HST (CSIR & CSR) - * alt. cable lengths avail. | | | | LST/HST | |
|--|-------------|---|-----------|--|-----------|-------------------------|---|-----------|--|-----------------------|----------------------|-------------------|----------------|----------|
| | | PTC starting device | | PTC starting device with RC connector | | Protector (external) | optional or compulsory (refer to data sheet) | | Starting relay | Starting capacitor | Starting device * | Starting kit * | Cord relief | Cover |
| | | Spades | | Spades | | Spades | Spades | | Spades | | Spades | | | |
| | | 1/4 inch | 3/16 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 1/4 inch | 1/4 inch | | |
| NL8.4CNX.2 | 105H6090 | | | | | | | | 117U7013 | 117U5035 | | | 103N1010 | 103N2011 |
| NL8.4CNX.2 | 105H6092 | | | | | | | | 117U7013 | 117U5035 | | | 103N1010 | 103N2011 |
| NLE8.0CN | 105H6093 | | | | | 117L0586 | 117-7147 | | 117U7013 | 117U5023 | | | 103N1010 | 103N2011 |
| NLE8.8CN | 105H6094 | | | | | 117L0533 | 117-7114 | | 117U7014 | 117U5025 | | | 103N1010 | 103N2011 |
| NLE8.0CN * | 105H6095 | | | | | 117L0586 | | | 117U7013 | 117U5023 | | | 103N1010 | 103N2011 |
| NLE8.8CN * | 105H6096 | | | | | 117L0533 | | | 117U7014 | 117U5025 | | | 103N1010 | 103N2011 |
| NLE8.0CN * | 105H6097 | | | | | 117L0586 | | | | | | | 103N1010 | 103N2011 |
| NLE8.0CN * | 105H6098 | | | | | 117L0586 | 117-7149 | | | | | | 103N1010 | 103N2011 |
| NLE10CN | 105H6194 | | | | | 117L0534 | 117-7118 | 117-7120 | 117U7018 | 117U5025 | | | 103N1010 | 103N2011 |
| NLE10CN * | 105H6195 | | | | | 117L0534 | | | 117U7018 | 117U5025 | | | 103N1010 | 103N2011 |
| NLE11CNL | 105H5981 | | | | | 117L0534 | 117-7114 | | 117U7020 | 117U5039 | | | 103N1010 | |
| NLE11CNL * | 105H5983 | | | | | 117L0534 | | | 117U7020 | 117U5039 | | | 103N1010 | |
| NLE11MN | 105H5980 | | | | | 117L0533 | 117-7114 | | 117U7020 | 117U5023 | | | 103N1010 | |
| NLE11MN * | 105H5982 | | | | | 117L0533 | | | 117U7020 | 117U5023 | | | 103N1010 | |
| NLY10CN | 105H6164 | | | | | 117L0533 | 117-7118 | 117-7120 | 117U7020 | 117U5035 | | | 103N1010 | 103N2011 |
| NLY10CN * | 105H6165 | | | | | 117L0533 | | | 117U7020 | 117U5035 | | | 103N1010 | 103N2011 |

Refrigerators = 1 | Freezers = 2 | Beverage coolers = 3 | Commercial freezers = 4 | Minibars = 5 | Ice cream cabinets = 6
 Water coolers = 7 | Heat pumps = 8 | Wine coolers = 9 | Display cabinets = 10 | Ice makers = 11

| ARI | | | | | | Power | Displacement | Voltage and frequencies [* dual frequency type with 50/60 Hz] | Compressor cooling [refer data sheet] | Dimensions | | | | | | Application |
|-----------------------------------|------|----------------------------------|------|----------------------------------|------|-------|--------------|--|--|---------------|-----|---------------------------------|--------------|-----------------|-----------------|---------------|
| LBP rating point -10°F / 120°F | | MBP rating point 20°F / 120°F | | HBP rating point 45°F / 120°F | | | | | | Height [inch] | | Connectors location/I.D. [inch] | | | | |
| Cooling capacity [BTU/h] | EER | Cooling capacity [BTU/h] | EER | Cooling capacity [BTU/h] | EER | | | | | A | B | Suction C | Process D | Dis-charge E | Oil cooler F | |
| 1359 | 4.20 | 2658 | 6.13 | | | 1/2 | 0.51 | 95-135 V, 60 Hz | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 3 4 5 7 10 11 |
| 1359 | 4.20 | 2658 | 6.13 | | | 1/2 | 0.51 | 95-135 V, 60 Hz | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 3 4 5 7 10 11 |
| 1302 | 4.87 | 2508 | 7.26 | | | 2/5 | 0.49 | 95-135 V, 60 Hz | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 3 4 5 7 10 11 |
| 1453 | 4.83 | 2802 | 7.03 | | | 1/2 | 0.53 | 95-135 V, 60 Hz | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 3 4 5 7 10 11 |
| 1302 | 4.87 | 2508 | 7.26 | | | 2/5 | 0.49 | 95-135 V, 60 Hz | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 3 4 5 7 10 11 |
| 1434 | 4.53 | 2767 | 6.53 | | | 1/2 | 0.53 | 95-135 V, 60 Hz | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 3 4 5 7 10 11 |
| 1302 | 4.87 | 2508 | 7.26 | | | 2/5 | 0.49 | 95-135 V, 60 Hz | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 3 4 5 7 10 11 |
| 1302 | 4.87 | 2508 | 7.26 | | | 2/5 | 0.49 | 95-135 V, 60 Hz | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 3 4 5 7 10 11 |
| 1706 | 4.90 | 3256 | 7.18 | | | 3/5 | 0.62 | 103-127 V, 60 Hz | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 3 4 5 7 10 11 |
| 1706 | 4.90 | 3256 | 7.18 | | | 3/5 | 0.62 | 103-127 V, 60 Hz | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 3 4 5 7 10 11 |
| 1889 | 5.00 | | | | | 3/5 | 0.68 | 95-135 V, 60 Hz | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 4 6 10 |
| 1889 | 5.00 | | | | | 3/5 | 0.68 | 95-135 V, 60 Hz | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 4 6 10 |
| 1904 | 4.70 | 3673 | 6.93 | 5733 | 9.27 | 3/5 | 0.68 | 95-127 V, 60 Hz | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 3 4 5 7 10 11 |
| 1904 | 4.70 | 3673 | 6.93 | 5733 | 9.27 | 3/5 | 0.68 | 95-127 V, 60 Hz | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 3 4 5 7 10 11 |
| 1657 | 4.75 | 3240 | 7.19 | | | 3/5 | 0.62 | 95-135 V, 60 Hz | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 3 4 5 7 10 11 |
| 1649 | 4.52 | 3214 | 6.80 | | | 3/5 | 0.62 | 95-135 V, 60 Hz | F2 | 8.0 | 7.8 | 0.32 | 0.26 | 0.26 | X | 3 4 5 7 10 11 |



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| Compressor | Code number | Application | ASHRAE Capacity [BTU/h] T _c =130°F, T _{liq} =90°F, T _{suc} =90°F Evaporating temperature [°F] | | | | | | ASHRAE | | | | | | ARI Capacity [BTU/h] T _c =120°F, T _{liq} =120°F, T _{suc} =40°F Evaporating temperature [°F] | | | | | | | |
|------------|-------------|-------------|--|----------|------|----------------------------------|----------|---------|----------------------------------|---------|----------|------|---|----|--|----|------|------|------|------|--|--|
| | | | LBP rating point -10°F / 130°F | | | MBP rating point 20°F / 130°F | | | HBP rating point 45°F / 130°F | | | | | | | | | | | | | |
| | | | Cooling capacity | | EER | Cooling capacity | | EER | Cooling capacity | | EER | | | | | | | | | | | |
| | | | [BTU/h] | [BTU/Wh] | | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | [BTU/h] | [BTU/Wh] | -31 | 5 | 23 | 32 | 50 | 59 | | | | | |
| SC10CNX.2 | 104H7070 | L/MBP | 531 | 2480 | 3964 | 4868 | | | 1525 | 3.98 | 3302 | 6.38 | | | | | 549 | 2049 | 3165 | 3830 | | |
| SC12CNX.2 | 104H7270 | L/MBP | 961 | 3171 | 4853 | 5876 | | | 2088 | 4.40 | 4065 | 6.39 | | | | | 862 | 2567 | 3833 | 4587 | | |
| SC12CNX.2 | 104H7271 | L/MBP | 961 | 3171 | 4853 | 5876 | | | 2088 | 4.40 | 4065 | 6.39 | | | | | 862 | 2567 | 3833 | 4587 | | |
| SC15MNX | 104H7570 | MBP | | 3991 | 5742 | 6826 | | | 2480 | 4.49 | 4856 | 6.42 | | | | | | 3195 | 4526 | 5379 | | |
| SC18MNX | 104H7870 | MBP | | 4323 | 6340 | 7656 | | | 3001 | 4.29 | 5331 | 5.81 | | | | | | 3534 | 5102 | 6121 | | |
| SCE15CNLX | 104H7578 | LBP | 966 | 4169 | 6272 | | | | 2731 | 5.38 | 5269 | 7.36 | | | | | 929 | 3375 | 4983 | | | |
| SCE15CNLX | 104H7588 | LBP | 965 | 4152 | 6243 | | | | 2722 | 5.12 | 5245 | 6.97 | | | | | 926 | 3363 | 4962 | | | |
| SCE18CNLX | 104H7878 | LBP | 1257 | 4824 | 7447 | | | | 3223 | 5.56 | 6209 | 7.36 | | | | | 1111 | 3956 | 5979 | | | |
| SCE18CNLX | 104H7888 | LBP | 1248 | 4790 | 7395 | | | | 3201 | 5.21 | 6166 | 6.89 | | | | | 1103 | 3928 | 5937 | | | |
| SCE21CNLX | 104H7178 | LBP | 1615 | 5530 | 8323 | | | | 3720 | 5.47 | 6981 | 7.12 | | | | | 1624 | 4481 | 6586 | | | |
| SCE15MNX | 104H7579 | MBP | | 4073 | 6253 | 7534 | | | | | 5241 | 6.99 | | | | | | 3328 | 4988 | 5941 | | |
| SCE18MNX | 104H7889 | MBP | | 4819 | 7242 | 8665 | | | | | 6090 | 6.78 | | | | | | 3929 | 5770 | 6848 | | |
| SCE18MNX | 104H7879 | MBP | | 4854 | 7295 | 8728 | | | | | 6134 | 7.26 | | | | | | 3958 | 5812 | 6898 | | |

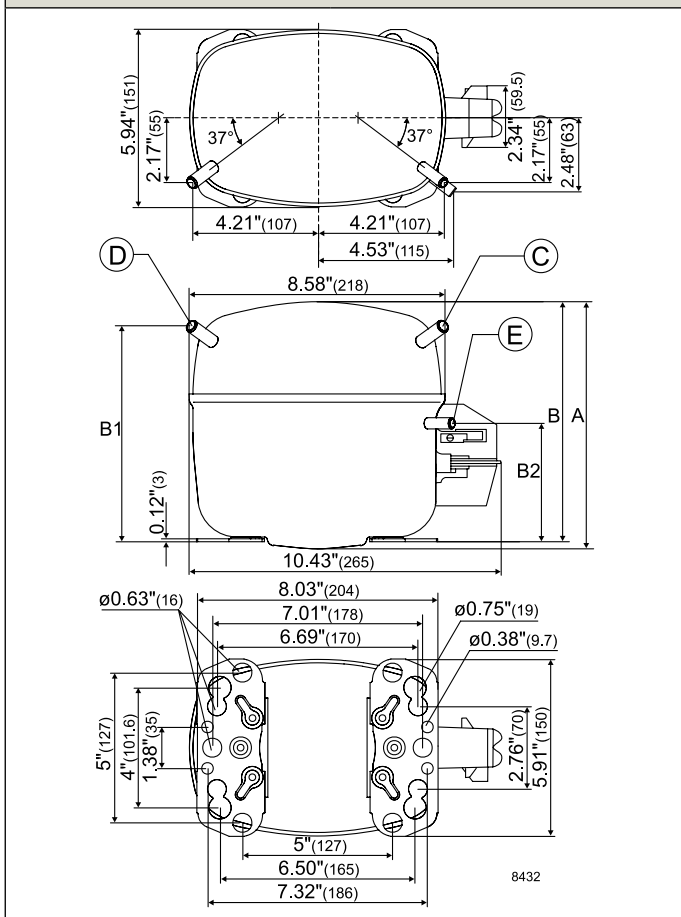
R290 • 115 V • 60 Hz • S-Series • Electrical Equipment

| Compressor * pre-assembled start equipment | Code number | LST (RSIR & RSCR) - refer to data sheet for more info | | | | | Run capacitor (RC) | | HST (CSIR & CSR) - * alt. cable lengths avail. | | | | LST/HST | |
|--|-------------|---|-----------|--|-----------|-------------------------|---|-----------|--|-----------------------|----------------------|-------------------|----------------|----------|
| | | PTC starting device | | PTC starting device with RC connector | | Protector (external) | optional or compulsory (refer to data sheet) | | Starting relay | Starting capacitor | Starting device * | Starting kit * | Cord relief | Cover |
| | | Spades | | Spades | | Spades | Spades | | Spades | | Spades | | | |
| | | 1/4 inch | 3/16 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 3/16 inch | 1/4 inch | 1/4 inch | 1/4 inch | 1/4 inch | | |
| SC10CNX.2 | 104H7070 | | | | | | | | 117U7020 | 117U5023 | | | 103N1004 | 103N2008 |
| SC12CNX.2 | 104H7270 | | | | | | | | 117U7020 | 117U5023 | | | 103N1004 | 103N2008 |
| SC12CNX.2 * | 104H7271 | | | | | | | | 117U7020 | 117U5023 | | | 103N1004 | 103N2008 |
| SC15MNX | 104H7570 | | | | | | | 117-7114 | 117-7441 | 117U5043 | 117-7053 | | | 117U1021 |
| SC18MNX | 104H7870 | | | | | | | | | | 117-7053 | | | 117U1021 |
| SCE15CNLX | 104H7578 | | | | | | | 117-7133 | 117-7441 | 117U5350 | 117-7801 | | | 117U1021 |
| SCE15CNLX | 104H7588 | | | | | | | | | 117U5350 | | | | 117U1021 |
| SCE18CNLX | 104H7878 | | | | | | | 117-7133 | 117-7441 | 117U5350 | 117-7801 | | | 117U1021 |
| SCE18CNLX | 104H7888 | | | | | | | | | 117U5350 | | | | 117U1021 |
| SCE21CNLX | 104H7178 | | | | | | | 117-7133 | 117-7443 | 117U5379 | 117-7805 | | | 117U1021 |
| SCE15MNX | 104H7579 | | | | | | | 117-7133 | 117-7441 | 117U5350 | 117-7801 | | | 117U1021 |
| SCE18MNX | 104H7889 | | | | | | | | | 117U5379 | | | | 117U1021 |
| SCE18MNX | 104H7879 | | | | | | | 117-7133 | 117-7443 | 117U5379 | 117-7805 | | | 117U1021 |

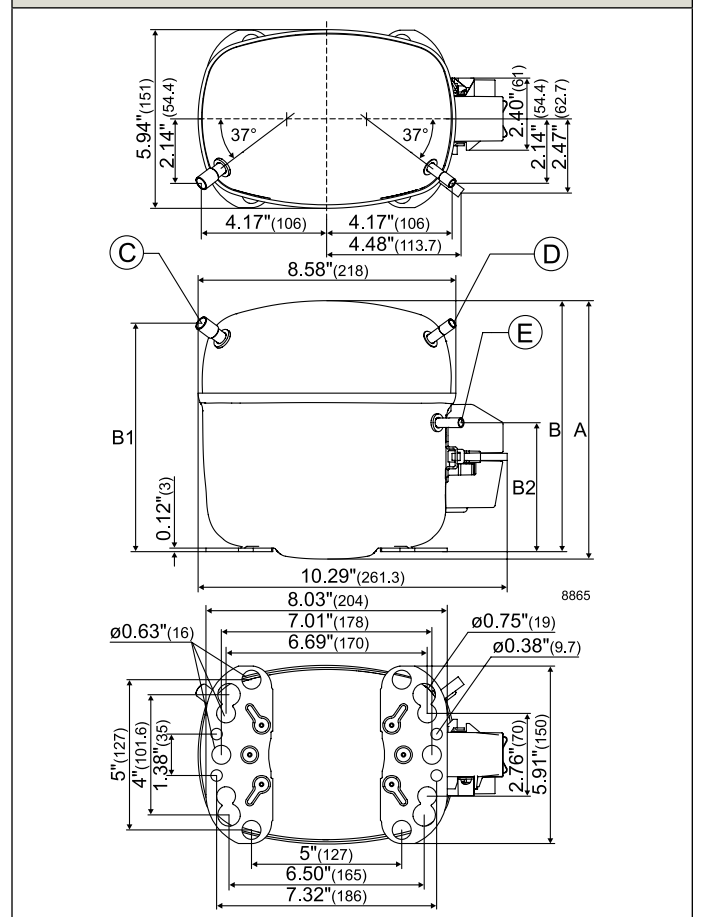
Refrigerators = 1 | Freezers = 2 | Beverage coolers = 3 | Commercial freezers = 4 | Minibars = 5 | Ice cream cabinets = 6
 Water coolers = 7 | Heat pumps = 8 | Wine coolers = 9 | Display cabinets = 10 | Ice makers = 11

| ARI | | | | | | Power | Displacement | Voltage and frequencies [* dual frequency type with 50/60 Hz] | Compressor cooling [refer-data sheet] | Dimensions | | | | | | Application |
|-----------------------------------|------|----------------------------------|------|----------------------------------|-----|-------|--------------|--|--|---------------|-----|---------------------------------|-----------|--------------|--------------|-------------|
| LBP rating point -10°F / 120°F | | MBP rating point 20°F / 120°F | | HBP rating point 45°F / 120°F | | | | | | Height [inch] | | Connectors location/I.D. [inch] | | | | |
| Cooling capacity [BTU/h] | EER | Cooling capacity [BTU/h] | EER | Cooling capacity [BTU/h] | EER | | | | | A | B | Suction C | Process D | Dis-charge E | Oil cooler F | |
| 1318 | 3.51 | 2960 | 6.01 | | | 2/5 | 0.63 | 95-135 V, 60 Hz | F2 | 8.2 | 8.0 | 0.38 | 0.26 | 0.26 | | 3 4 7 10 11 |
| 1736 | 3.76 | 3601 | 6.01 | | | 3/5 | 0.79 | 95-135 V, 60 Hz | F2 | 8.2 | 8.0 | 0.38 | 0.26 | 0.26 | X | 3 4 7 10 11 |
| 1736 | 3.76 | 3601 | 6.01 | | | 3/5 | 0.79 | 95-135 V, 60 Hz | F2 | 8.2 | 8.0 | 0.38 | 0.26 | 0.26 | X | 3 4 7 10 11 |
| 2132 | 3.89 | 4278 | 5.94 | | | 3/4 | 0.93 | 100-127 V, 60 Hz | F2 | 8.6 | 8.4 | 0.38 | 0.26 | 0.26 | | 3 7 10 11 |
| 2530 | 3.65 | 4802 | 5.42 | | | 5/6 | 1.08 | 103-127 V, 60 Hz | F2 | 8.6 | 8.4 | 0.38 | 0.26 | 0.26 | | 3 7 10 11 |
| 2269 | 4.53 | 4689 | 6.98 | | | 3/4 | 0.93 | 95-135 V, 60 Hz | F2 | 8.6 | 8.4 | 0.38 | 0.26 | 0.26 | | 4 6 |
| 2262 | 4.31 | 4670 | 6.62 | | | 3/4 | 0.93 | 103-127 V, 60 Hz | F2 | 8.6 | 8.4 | 0.38 | 0.26 | 0.26 | | 4 6 |
| 2685 | 4.68 | 5591 | 6.96 | | | 5/6 | 1.08 | 95-135 V, 60 Hz | F2 | 8.6 | 8.4 | 0.38 | 0.26 | 0.26 | X | 4 6 |
| 2666 | 4.38 | 5551 | 6.51 | | | 5/6 | 1.08 | 103-127 V, 60 Hz | F2 | 8.6 | 8.4 | 0.38 | 0.26 | 0.26 | X | 4 6 |
| 3131 | 4.60 | 6191 | 6.74 | | | 1 | 1.28 | 103-127 V, 60 Hz | F2 | 8.6 | 8.4 | 0.38 | 0.26 | 0.26 | | 4 |
| | | 4688 | 6.55 | | | 3/4 | 0.93 | 103-127 V, 60 Hz | F2 | 8.6 | 8.4 | 0.38 | 0.26 | 0.26 | | 3 7 10 11 |
| | | 5436 | 6.39 | | | 5/6 | 1.08 | 103-127 V, 60 Hz | F2 | 8.6 | 8.4 | 0.38 | 0.26 | 0.26 | | 3 7 10 11 |
| | | 5475 | 6.85 | | | 5/6 | 1.08 | 103-127 V, 60 Hz | F2 | 8.6 | 8.4 | 0.38 | 0.26 | 0.26 | | 3 7 10 11 |

SC (ext. protector) SC w/o ext. protector similar



SCE (ext. protector)



OUR IDENTITY

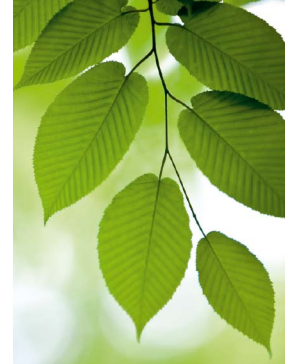
At Secop we are committed to our industry and are genuinely passionate about the difference we are able to make for our customers. We understand their business and objectives and the challenges of today's world of refrigeration and cooling systems.

We work in a straightforward way, being open, direct and honest because we want to make things clear and easy. Our people are committed to increasing value for our customers and constantly strive for better performance, knowing that our own progression and success is dependent on theirs.

A NEWCOMER WITH 60 YEARS OF EXPERIENCE

Formerly known as Danfoss Compressors, Secop is one of the founding fathers of modern compressor technology with an experience that goes back to the beginning of the 1950s.

For more than 25 years, Secop has been setting the standard in compressor technology by developing highly efficient variable speed compressors and by compressors working with hydrocarbons.



OUR JOURNEY SO FAR

