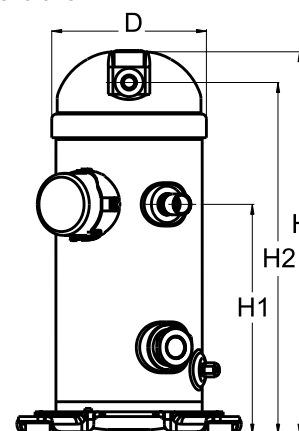


**General Characteristics**

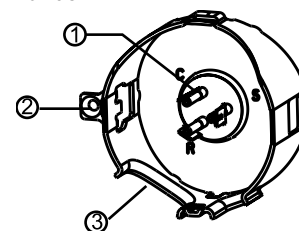
| Model number (on compressor nameplate)            | MLZ019T5LP9                      | MLZ019T5LP9 |
|---|----------------------------------|-------------|
| Code number for Singlepack*                       | 121U8026                         | 120U8026    |
| Code number for Industrial pack**                 | 121U8025                         | 120U8025    |
| Drawing number                                    | 0XC6300B-1                       | 0XC6300B-1  |
| Suction and discharge connections                 | Brazed                           | Brazed      |
| Suction connection                                | 3/4" ODF                         | 3/4" ODF    |
| Discharge connection                              | 1/2" ODF                         | 1/2" ODF    |
| Oil sight glass                                   | Threaded                         | Threaded    |
| Oil equalisation connection                       | None                             | None        |
| Oil drain connection                              | 1/4" flare                       | 1/4" flare  |
| LP gauge port                                     | None                             | None        |
| IPR valve   | 32 bar                           | 32 bar      |
| Swept volume                                      | 43,51 cm <sup>3</sup> /rev       |             |
| Displacement @ Nominal speed                      | 7.6 m <sup>3</sup> /h @ 2900 rpm |             |
| Net weight  | 31 kg                            |             |
| Oil charge  | 1,06 litre, PVE --               |             |
| Maximum system test pressure Low Side / High side | - bar(g) / - bar(g)              |             |
| Maximum differential test pressure                | - bar                            |             |
| Maximum number of starts per hour                 | 12                               |             |
| Refrigerant charge limit                          | 3,63 kg                          |             |
| Approved refrigerants                             | R404A, R507, R134a, R22          |             |

**Dimensions**


D=164,5 mm  
H=412 mm  
H1=250 mm  
H2=379 mm  
H3=- mm

**Electrical Characteristics**

|   |                             |
|---|-----------------------------|
| Nominal voltage                           | 230V/1/50Hz                 |
| Voltage range                             | 207-253 V                   |
| Winding resistance (main / start) at 25°C | 0,689 Ω / 1,509 Ω           |
| Run capacitors A + C                      | 70 μF + - μF                |
| Start capacitor B                         | 145-175 μF                  |
| Start relay                               | RVA9CKL                     |
| Rated Load Amps (RLA)                     | 14.7 A                      |
| Maximum Continuous Current (MCC)          | 23 A                        |
| Locked Rotor Amps (LRA)                   | 97 A                        |
| Motor protection                          | Internal overload protector |

**Terminal box**


IP22

- 1: Spade connectors 1/4"
- 2: Earth connection
- 3: Power cable passage

**Recommended Installation torques**

|                                      |             |
|--------------------------------------|-------------|
| Suction Rotolock nut or valve        | 0 Nm        |
| Discharge Rotolock nut or valve      | 0 Nm        |
| Oil sight glass                      | 52,5 Nm     |
| Power connections / Earth connection | 0 Nm / 0 Nm |

**Parts shipped with compressor**

|  |
|--|
| Mounting kit with grommets and sleeves |
| Initial oil charge                     |
| Installation instructions              |

**Approvals** : CE certified, -, -

\*Singlepack: Compressor in cardboard box. 121U... optimised for Danfoss pallet, 120U... optimised for US pallet

\*\*Industrial pack: 121U...: 12 unboxed compressors on Danfoss pallet. 120U...: 16 unboxed compressors on US pallet

**Rotolock accessories, suction side**

**Code no.**

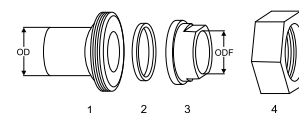
|   |         |
|---|---------|
| Solder sleeve, P04 (1-1/4" Rotolock, 3/4" ODF)  | 8153008 |
| Angle adapter, C04 (1-1/4" Rotolock, 3/4" ODF)  | 8168006 |
| Rotolock valve, V04 (1-1/4" Rotolock, 3/4" ODF) | 8168029 |
| Gasket, 1-1/4"                                  | 8156131 |

**Rotolock accessories, discharge side**

**Code no.**

|   |         |
|---|---------|
| Solder sleeve, P06 (1" Rotolock, 1/2" ODF)  | 8153007 |
| Angle adapter, C06 (1" Rotolock, 1/2" ODF)  | 8168007 |
| Rotolock valve, V06 (1" Rotolock, 1/2" ODF) | 8168031 |
| Gasket, 1"                                  | 8156130 |

**Solder sleeve adapter set**



- 1: Rotolock adapter (Suc & Dis)
- 2: Gasket (Suc & Dis)
- 3: Solder sleeve (Suc & Dis)
- 4: Rotolock nut (Suc & Dis)

**Rotolock accessories, sets**

**Code no.**

|  |          |
|--|----------|
| Solder sleeve adapter set (1-1/4" Rotolock, 3/4" ODF), (1" Rotolock, 1/2" ODF) | 120Z0126 |
| Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white                      | 8156009  |

**Oil / lubricants**

**Code no.**

|  |          |
|--|----------|
| PVE lubricant, 320HV (FVC68D), 1 litre can | 120Z5034 |
|--|----------|

**Crankcase heaters**

**Code no.**

|  |          |
|--|----------|
| Belt type crankcase heater, 70 W, 240 V, CE mark, UL | 120Z5040 |
|--|----------|

**Miscellaneous accessories**

**Code no.**

|                          |          |
|--------------------------|----------|
| Acoustic hood            | 120Z5043 |
| Discharge thermostat kit | 7750009  |

**Spare parts**

**Code no.**

|  |          |
|--|----------|
| Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers | 120Z5005 |
|--|----------|

**Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R22**

| Cond. temp. in<br>°C (tc) | Evaporating temperature in °C (to) |     |     |    |   |   |    |  |
|---------------------------|------------------------------------|-----|-----|----|---|---|----|--|
|                           | -20                                | -15 | -10 | -5 | 0 | 5 | 10 |  |

**Cooling capacity in W**

|    |       |       |       |       |       |       |        |   |   |
|----|-------|-------|-------|-------|-------|-------|--------|---|---|
| 16 | 3 978 | 4 771 | 5 671 | 6 721 | -     | -     | -      | - | - |
| 20 | 3 859 | 4 638 | 5 516 | 6 536 | 7 742 | -     | -      | - | - |
| 30 | 3 529 | 4 276 | 5 101 | 6 051 | 7 168 | 8 495 | 10 068 | - | - |
| 40 | 3 136 | 3 855 | 4 633 | 5 518 | 6 552 | 7 778 | 9 238  | - | - |
| 50 | -     | 3 358 | 4 094 | 4 917 | 5 873 | 7 005 | 8 355  | - | - |
| 60 | -     | -     | -     | 4 233 | 5 114 | 6 156 | 7 402  | - | - |
| 68 | -     | -     | -     | -     | -     | 5 409 | 6 576  | - | - |

**Power input in W**

|    |       |       |       |       |       |       |       |   |   |
|----|-------|-------|-------|-------|-------|-------|-------|---|---|
| 16 | 1 060 | 1 095 | 1 130 | 1 165 | -     | -     | -     | - | - |
| 20 | 1 157 | 1 186 | 1 216 | 1 245 | 1 271 | -     | -     | - | - |
| 30 | 1 434 | 1 453 | 1 472 | 1 490 | 1 505 | 1 516 | 1 522 | - | - |
| 40 | 1 762 | 1 777 | 1 791 | 1 803 | 1 812 | 1 817 | 1 816 | - | - |
| 50 | -     | 2 157 | 2 173 | 2 185 | 2 194 | 2 197 | 2 194 | - | - |
| 60 | -     | -     | -     | 2 636 | 2 650 | 2 658 | 2 659 | - | - |
| 68 | -     | -     | -     | -     | -     | 3 085 | 3 094 | - | - |

**Current consumption in A**

|    |      |       |       |       |       |       |       |   |   |
|----|------|-------|-------|-------|-------|-------|-------|---|---|
| 16 | 5.67 | 5.86  | 6.04  | 6.23  | -     | -     | -     | - | - |
| 20 | 6.19 | 6.34  | 6.50  | 6.66  | 6.80  | -     | -     | - | - |
| 30 | 7.67 | 7.77  | 7.87  | 7.97  | 8.05  | 8.11  | 8.14  | - | - |
| 40 | 9.42 | 9.50  | 9.58  | 9.64  | 9.69  | 9.72  | 9.71  | - | - |
| 50 | -    | 11.54 | 11.62 | 11.68 | 11.73 | 11.75 | 11.73 | - | - |
| 60 | -    | -     | -     | 14.10 | 14.17 | 14.21 | 14.22 | - | - |
| 68 | -    | -     | -     | -     | -     | 16.50 | 16.55 | - | - |

**Mass flow in kg/h**

|    |    |    |     |     |     |     |     |   |   |
|----|----|----|-----|-----|-----|-----|-----|---|---|
| 16 | 74 | 89 | 106 | 126 | -   | -   | -   | - | - |
| 20 | 73 | 88 | 105 | 125 | 147 | -   | -   | - | - |
| 30 | 72 | 86 | 103 | 122 | 145 | 171 | 200 | - | - |
| 40 | 71 | 85 | 102 | 121 | 144 | 169 | 199 | - | - |
| 50 | -  | 82 | 99  | 119 | 141 | 167 | 196 | - | - |
| 60 | -  | -  | -   | 112 | 135 | 161 | 191 | - | - |
| 68 | -  | -  | -   | -   | -   | 153 | 183 | - | - |

**Coefficient of performance (C.O.P.)**

|    |      |      |      |      |      |      |      |   |   |
|----|------|------|------|------|------|------|------|---|---|
| 16 | 3.75 | 4.36 | 5.02 | 5.77 | -    | -    | -    | - | - |
| 20 | 3.34 | 3.91 | 4.54 | 5.25 | 6.09 | -    | -    | - | - |
| 30 | 2.46 | 2.94 | 3.46 | 4.06 | 4.76 | 5.60 | 6.61 | - | - |
| 40 | 1.78 | 2.17 | 2.59 | 3.06 | 3.61 | 4.28 | 5.09 | - | - |
| 50 | -    | 1.56 | 1.88 | 2.25 | 2.68 | 3.19 | 3.81 | - | - |
| 60 | -    | -    | -    | 1.61 | 1.93 | 2.32 | 2.78 | - | - |
| 68 | -    | -    | -    | -    | -    | 1.75 | 2.13 | - | - |

**Nominal performance at to = -10 °C, tc = 45 °C**

|                     |       |      |
|---------------------|-------|------|
| Cooling capacity    | 4 374 | W    |
| Power input         | 1 974 | W    |
| Current consumption | 10.56 | A    |
| Mass flow           | 101   | kg/h |
| C.O.P.              | 2.22  |      |

**Pressure switch settings**

|                           |      |        |
|---------------------------|------|--------|
| Maximum HP switch setting | 29.8 | bar(g) |
| Minimum LP switch setting | 0.5  | bar(g) |
| LP pump down setting      | 0.95 | bar(g) |

**Sound power data**

|                    |    |       |
|--------------------|----|-------|
| Sound power level  | 67 | dB(A) |
| With acoustic hood | 59 | dB(A) |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

All performance data +/- 5%

**Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R22**

| Cond. temp. in<br>°C (tc) | Evaporating temperature in °C (to) |     |     |    |   |   |    |  |
|---------------------------|------------------------------------|-----|-----|----|---|---|----|--|
|                           | -20                                | -15 | -10 | -5 | 0 | 5 | 10 |  |

**Cooling capacity in W**

|    |       |       |       |       |       |       |        |   |   |
|----|-------|-------|-------|-------|-------|-------|--------|---|---|
| 16 | 3 881 | 4 669 | 5 568 | 6 622 | -     | -     | -      | - | - |
| 20 | 3 775 | 4 549 | 5 425 | 6 449 | 7 666 | -     | -      | - | - |
| 30 | 3 478 | 4 220 | 5 043 | 5 993 | 7 117 | 8 460 | 10 068 | - | - |
| 40 | -     | 3 833 | 4 608 | 5 490 | 6 525 | 7 759 | 9 238  | - | - |
| 50 | -     | -     | -     | 4 921 | 5 872 | 7 001 | 8 355  | - | - |
| 60 | -     | -     | -     | -     | 5 138 | 6 168 | 7 402  | - | - |
| 68 | -     | -     | -     | -     | -     | -     | 6 576  | - | - |

**Power input in W**

|    |       |       |       |       |       |       |       |   |   |
|----|-------|-------|-------|-------|-------|-------|-------|---|---|
| 16 | 1 060 | 1 095 | 1 130 | 1 165 | -     | -     | -     | - | - |
| 20 | 1 157 | 1 186 | 1 216 | 1 245 | 1 271 | -     | -     | - | - |
| 30 | 1 434 | 1 453 | 1 472 | 1 490 | 1 505 | 1 516 | 1 522 | - | - |
| 40 | -     | 1 777 | 1 791 | 1 803 | 1 812 | 1 817 | 1 816 | - | - |
| 50 | -     | -     | -     | 2 185 | 2 194 | 2 197 | 2 194 | - | - |
| 60 | -     | -     | -     | -     | 2 650 | 2 658 | 2 659 | - | - |
| 68 | -     | -     | -     | -     | -     | -     | 3 094 | - | - |

**Current consumption in A**

|    |      |      |      |       |       |       |       |   |   |
|----|------|------|------|-------|-------|-------|-------|---|---|
| 16 | 5.67 | 5.86 | 6.04 | 6.23  | -     | -     | -     | - | - |
| 20 | 6.19 | 6.34 | 6.50 | 6.66  | 6.80  | -     | -     | - | - |
| 30 | 7.67 | 7.77 | 7.87 | 7.97  | 8.05  | 8.11  | 8.14  | - | - |
| 40 | -    | 9.50 | 9.58 | 9.64  | 9.69  | 9.72  | 9.71  | - | - |
| 50 | -    | -    | -    | 11.68 | 11.73 | 11.75 | 11.73 | - | - |
| 60 | -    | -    | -    | -     | 14.17 | 14.21 | 14.22 | - | - |
| 68 | -    | -    | -    | -     | -     | -     | 16.55 | - | - |

**Mass flow in kg/h**

|    |    |    |    |     |     |     |     |   |   |
|----|----|----|----|-----|-----|-----|-----|---|---|
| 16 | 65 | 80 | 97 | 118 | -   | -   | -   | - | - |
| 20 | 64 | 79 | 96 | 116 | 141 | -   | -   | - | - |
| 30 | 63 | 78 | 94 | 114 | 138 | 167 | 200 | - | - |
| 40 | -  | 77 | 93 | 113 | 137 | 165 | 199 | - | - |
| 50 | -  | -  | -  | 111 | 135 | 163 | 196 | - | - |
| 60 | -  | -  | -  | -   | 129 | 158 | 191 | - | - |
| 68 | -  | -  | -  | -   | -   | -   | 183 | - | - |

**Coefficient of performance (C.O.P.)**

|    |      |      |      |      |      |      |      |   |   |
|----|------|------|------|------|------|------|------|---|---|
| 16 | 3.66 | 4.26 | 4.93 | 5.68 | -    | -    | -    | - | - |
| 20 | 3.26 | 3.84 | 4.46 | 5.18 | 6.03 | -    | -    | - | - |
| 30 | 2.43 | 2.90 | 3.42 | 4.02 | 4.73 | 5.58 | 6.61 | - | - |
| 40 | -    | 2.16 | 2.57 | 3.04 | 3.60 | 4.27 | 5.09 | - | - |
| 50 | -    | -    | -    | 2.25 | 2.68 | 3.19 | 3.81 | - | - |
| 60 | -    | -    | -    | -    | 1.94 | 2.32 | 2.78 | - | - |
| 68 | -    | -    | -    | -    | -    | -    | 2.13 | - | - |

**Nominal performance at to = -10 °C, tc = 45 °C**

|                     |       |      |
|---------------------|-------|------|
| Cooling capacity    | 4 365 | W    |
| Power input         | 1 974 | W    |
| Current consumption | 10.56 | A    |
| Mass flow           | 93    | kg/h |
| C.O.P.              | 2.21  |      |

**Pressure switch settings**

|                           |      |        |
|---------------------------|------|--------|
| Maximum HP switch setting | 29.8 | bar(g) |
| Minimum LP switch setting | 0.5  | bar(g) |
| LP pump down setting      | 0.95 | bar(g) |

**Sound power data**

|                    |    |       |
|--------------------|----|-------|
| Sound power level  | 67 | dB(A) |
| With acoustic hood | 59 | dB(A) |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

All performance data +/- 5%

**Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R134a**

| Cond. temp. in<br>°C (tc) | Evaporating temperature in °C (to) |     |    |   |   |    |    |  |
|---------------------------|------------------------------------|-----|----|---|---|----|----|--|
|                           | -15                                | -10 | -5 | 0 | 5 | 10 | 15 |  |

**Cooling capacity in W**

|    |       |       |       |       |       |       |       |   |   |
|----|-------|-------|-------|-------|-------|-------|-------|---|---|
| 22 | 2 624 | 3 320 | 4 112 | 5 005 | 6 003 | -     | -     | - | - |
| 30 | 2 408 | 3 075 | 3 844 | 4 721 | 5 711 | 6 819 | -     | - | - |
| 40 | 2 127 | 2 730 | 3 444 | 4 276 | 5 229 | 6 309 | 7 522 | - | - |
| 50 | -     | 2 374 | 3 004 | 3 761 | 4 648 | 5 671 | 6 835 | - | - |
| 60 | -     | -     | 2 557 | 3 210 | 4 002 | 4 938 | 6 025 | - | - |
| 70 | -     | -     | -     | 2 655 | 3 323 | 4 144 | 5 124 | - | - |
| 73 | -     | -     | -     | 2 493 | 3 118 | 3 899 | 4 840 | - | - |

**Power input in W**

|    |       |       |       |       |       |       |       |   |   |
|----|-------|-------|-------|-------|-------|-------|-------|---|---|
| 22 | 947   | 954   | 975   | 1 006 | 1 043 | -     | -     | - | - |
| 30 | 1 087 | 1 092 | 1 110 | 1 138 | 1 172 | 1 210 | -     | - | - |
| 40 | 1 295 | 1 299 | 1 317 | 1 343 | 1 376 | 1 411 | 1 446 | - | - |
| 50 | -     | 1 551 | 1 569 | 1 597 | 1 630 | 1 666 | 1 701 | - | - |
| 60 | -     | -     | 1 874 | 1 905 | 1 941 | 1 979 | 2 016 | - | - |
| 70 | -     | -     | -     | 2 271 | 2 313 | 2 356 | 2 398 | - | - |
| 73 | -     | -     | -     | 2 393 | 2 437 | 2 482 | 2 526 | - | - |

**Current consumption in A**

|    |      |      |       |       |       |       |       |   |   |
|----|------|------|-------|-------|-------|-------|-------|---|---|
| 22 | 5.06 | 5.10 | 5.21  | 5.38  | 5.58  | -     | -     | - | - |
| 30 | 5.81 | 5.84 | 5.94  | 6.09  | 6.27  | 6.47  | -     | - | - |
| 40 | 6.92 | 6.95 | 7.04  | 7.18  | 7.36  | 7.55  | 7.73  | - | - |
| 50 | -    | 8.29 | 8.39  | 8.54  | 8.72  | 8.91  | 9.10  | - | - |
| 60 | -    | -    | 10.02 | 10.18 | 10.38 | 10.58 | 10.78 | - | - |
| 70 | -    | -    | -     | 12.14 | 12.37 | 12.60 | 12.82 | - | - |
| 73 | -    | -    | -     | 12.80 | 13.03 | 13.27 | 13.51 | - | - |

**Mass flow in kg/h**

|    |    |    |    |     |     |     |     |   |   |
|----|----|----|----|-----|-----|-----|-----|---|---|
| 22 | 56 | 70 | 85 | 102 | 120 | -   | -   | - | - |
| 30 | 55 | 70 | 85 | 103 | 122 | 143 | -   | - | - |
| 40 | 54 | 68 | 84 | 102 | 122 | 145 | 170 | - | - |
| 50 | -  | 66 | 82 | 100 | 121 | 144 | 171 | - | - |
| 60 | -  | -  | 79 | 97  | 118 | 142 | 169 | - | - |
| 70 | -  | -  | -  | 93  | 113 | 137 | 165 | - | - |
| 73 | -  | -  | -  | 92  | 112 | 136 | 163 | - | - |

**Coefficient of performance (C.O.P.)**

|    |      |      |      |      |      |      |      |   |   |
|----|------|------|------|------|------|------|------|---|---|
| 22 | 2.77 | 3.48 | 4.22 | 4.98 | 5.76 | -    | -    | - | - |
| 30 | 2.22 | 2.82 | 3.46 | 4.15 | 4.87 | 5.64 | -    | - | - |
| 40 | 1.64 | 2.10 | 2.62 | 3.18 | 3.80 | 4.47 | 5.20 | - | - |
| 50 | -    | 1.53 | 1.91 | 2.36 | 2.85 | 3.40 | 4.02 | - | - |
| 60 | -    | -    | 1.36 | 1.69 | 2.06 | 2.50 | 2.99 | - | - |
| 70 | -    | -    | -    | 1.17 | 1.44 | 1.76 | 2.14 | - | - |
| 73 | -    | -    | -    | 1.04 | 1.28 | 1.57 | 1.92 | - | - |

**Nominal performance at to = -10 °C, tc = 45 °C**

|                     |       |      |
|---------------------|-------|------|
| Cooling capacity    | 2 551 | W    |
| Power input         | 1 419 | W    |
| Current consumption | 7.59  | A    |
| Mass flow           | 67    | kg/h |
| C.O.P.              | 1.80  |      |

**Pressure switch settings**

|                           |      |        |
|---------------------------|------|--------|
| Maximum HP switch setting | 23.6 | bar(g) |
| Minimum LP switch setting | 0.45 | bar(g) |
| LP pump down setting      | 0.85 | bar(g) |

**Sound power data**

|                    |    |       |
|--------------------|----|-------|
| Sound power level  | 67 | dB(A) |
| With acoustic hood | 59 | dB(A) |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

All performance data +/- 5%

**Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R134a**

| Cond. temp. in<br>°C (tc) | Evaporating temperature in °C (to) |     |    |   |   |    |    |  |
|---------------------------|------------------------------------|-----|----|---|---|----|----|--|
|                           | -15                                | -10 | -5 | 0 | 5 | 10 | 15 |  |

**Cooling capacity in W**

|    |       |       |       |       |       |       |       |   |   |
|----|-------|-------|-------|-------|-------|-------|-------|---|---|
| 22 | 2 666 | 3 359 | 4 144 | 5 027 | 6 013 | -     | -     | - | - |
| 30 | -     | 3 132 | 3 893 | 4 758 | 5 731 | 6 819 | -     | - | - |
| 40 | -     | -     | 3 515 | 4 331 | 5 260 | 6 309 | 7 486 | - | - |
| 50 | -     | -     | 3 096 | 3 834 | 4 691 | 5 671 | 6 781 | - | - |
| 60 | -     | -     | -     | 3 299 | 4 055 | 4 938 | -     | - | - |
| 70 | -     | -     | -     | -     | 3 387 | 4 144 | -     | - | - |
| 73 | -     | -     | -     | -     | 3 185 | 3 899 | -     | - | - |

**Power input in W**

|    |     |       |       |       |       |       |       |   |   |
|----|-----|-------|-------|-------|-------|-------|-------|---|---|
| 22 | 947 | 954   | 975   | 1 006 | 1 043 | -     | -     | - | - |
| 30 | -   | 1 092 | 1 110 | 1 138 | 1 172 | 1 210 | -     | - | - |
| 40 | -   | -     | 1 317 | 1 343 | 1 376 | 1 411 | 1 446 | - | - |
| 50 | -   | -     | 1 569 | 1 597 | 1 630 | 1 666 | 1 701 | - | - |
| 60 | -   | -     | -     | 1 905 | 1 941 | 1 979 | -     | - | - |
| 70 | -   | -     | -     | -     | 2 313 | 2 356 | -     | - | - |
| 73 | -   | -     | -     | -     | 2 437 | 2 482 | -     | - | - |

**Current consumption in A**

|    |      |      |      |       |       |       |      |   |   |
|----|------|------|------|-------|-------|-------|------|---|---|
| 22 | 5.06 | 5.10 | 5.21 | 5.38  | 5.58  | -     | -    | - | - |
| 30 | -    | 5.84 | 5.94 | 6.09  | 6.27  | 6.47  | -    | - | - |
| 40 | -    | -    | 7.04 | 7.18  | 7.36  | 7.55  | 7.73 | - | - |
| 50 | -    | -    | 8.39 | 8.54  | 8.72  | 8.91  | 9.10 | - | - |
| 60 | -    | -    | -    | 10.18 | 10.38 | 10.58 | -    | - | - |
| 70 | -    | -    | -    | -     | 12.37 | 12.60 | -    | - | - |
| 73 | -    | -    | -    | -     | 13.03 | 13.27 | -    | - | - |

**Mass flow in kg/h**

|    |    |    |    |    |     |     |     |   |   |
|----|----|----|----|----|-----|-----|-----|---|---|
| 22 | 50 | 64 | 80 | 97 | 117 | -   | -   | - | - |
| 30 | -  | 64 | 80 | 98 | 119 | 143 | -   | - | - |
| 40 | -  | -  | 79 | 98 | 119 | 145 | 174 | - | - |
| 50 | -  | -  | 77 | 96 | 118 | 144 | 175 | - | - |
| 60 | -  | -  | -  | 93 | 115 | 142 | -   | - | - |
| 70 | -  | -  | -  | -  | 111 | 137 | -   | - | - |
| 73 | -  | -  | -  | -  | 109 | 136 | -   | - | - |

**Coefficient of performance (C.O.P.)**

|    |      |      |      |      |      |      |      |   |   |
|----|------|------|------|------|------|------|------|---|---|
| 22 | 2.82 | 3.52 | 4.25 | 5.00 | 5.77 | -    | -    | - | - |
| 30 | -    | 2.87 | 3.51 | 4.18 | 4.89 | 5.64 | -    | - | - |
| 40 | -    | -    | 2.67 | 3.22 | 3.82 | 4.47 | 5.18 | - | - |
| 50 | -    | -    | 1.97 | 2.40 | 2.88 | 3.40 | 3.99 | - | - |
| 60 | -    | -    | -    | 1.73 | 2.09 | 2.50 | -    | - | - |
| 70 | -    | -    | -    | -    | 1.46 | 1.76 | -    | - | - |
| 73 | -    | -    | -    | -    | 1.31 | 1.57 | -    | - | - |

**Nominal performance at to = -10 °C, tc = 45 °C**

|                     |   |      |
|---------------------|---|------|
| Cooling capacity    | - | W    |
| Power input         | - | W    |
| Current consumption | - | A    |
| Mass flow           | - | kg/h |
| C.O.P.              | - |      |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

**Pressure switch settings**

|                           |      |        |
|---------------------------|------|--------|
| Maximum HP switch setting | 23.6 | bar(g) |
| Minimum LP switch setting | 0.45 | bar(g) |
| LP pump down setting      | 0.85 | bar(g) |

**Sound power data**

|                    |    |       |
|--------------------|----|-------|
| Sound power level  | 67 | dB(A) |
| With acoustic hood | 59 | dB(A) |

All performance data +/- 5%

**Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R404A**

| Cond. temp. in<br>°C (tc) | Evaporating temperature in °C (to) |     |     |     |     |    |   |   |    |
|---------------------------|------------------------------------|-----|-----|-----|-----|----|---|---|----|
|                           | -30                                | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 |

**Cooling capacity in W**

|    |       |       |       |       |       |       |       |       |        |
|----|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 10 | 3 060 | 3 798 | 4 685 | 5 736 | 6 965 | -     | -     | -     | -      |
| 20 | 2 788 | 3 475 | 4 289 | 5 245 | 6 360 | 7 646 | 9 121 | -     | -      |
| 30 | 2 479 | 3 105 | 3 839 | 4 694 | 5 685 | 6 829 | 8 139 | 9 631 | 11 318 |
| 40 | -     | 2 684 | 3 329 | 4 075 | 4 936 | 5 929 | 7 067 | 8 366 | 9 841  |
| 50 | -     | -     | 2 754 | 3 383 | 4 106 | 4 940 | 5 899 | 6 998 | 8 253  |
| 60 | -     | -     | -     | -     | 3 189 | 3 857 | 4 629 | 5 521 | 6 550  |

**Power input in W**

|    |       |       |       |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 10 | 983   | 993   | 1 001 | 1 007 | 1 010 | -     | -     | -     | -     |
| 20 | 1 231 | 1 242 | 1 252 | 1 259 | 1 264 | 1 265 | 1 263 | -     | -     |
| 30 | 1 541 | 1 554 | 1 566 | 1 575 | 1 580 | 1 582 | 1 580 | 1 574 | 1 562 |
| 40 | -     | 1 946 | 1 959 | 1 969 | 1 976 | 1 979 | 1 978 | 1 971 | 1 960 |
| 50 | -     | -     | 2 448 | 2 460 | 2 468 | 2 472 | 2 471 | 2 465 | 2 453 |
| 60 | -     | -     | -     | -     | 3 072 | 3 077 | 3 077 | 3 071 | 3 060 |

**Current consumption in A**

|    |      |       |       |       |       |       |       |       |       |
|----|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 10 | 5.26 | 5.31  | 5.35  | 5.38  | 5.40  | -     | -     | -     | -     |
| 20 | 6.58 | 6.64  | 6.70  | 6.73  | 6.76  | 6.77  | 6.75  | -     | -     |
| 30 | 8.24 | 8.31  | 8.37  | 8.42  | 8.45  | 8.46  | 8.45  | 8.42  | 8.35  |
| 40 | -    | 10.40 | 10.48 | 10.53 | 10.57 | 10.58 | 10.58 | 10.54 | 10.48 |
| 50 | -    | -     | 13.09 | 13.15 | 13.20 | 13.22 | 13.21 | 13.18 | 13.12 |
| 60 | -    | -     | -     | -     | 16.43 | 16.45 | 16.45 | 16.42 | 16.36 |

**Mass flow in kg/h**

|    |    |    |    |     |     |     |     |     |     |
|----|----|----|----|-----|-----|-----|-----|-----|-----|
| 10 | 55 | 73 | 93 | 115 | 141 | -   | -   | -   | -   |
| 20 | 57 | 75 | 94 | 116 | 142 | 172 | 207 | -   | -   |
| 30 | 57 | 75 | 93 | 115 | 140 | 170 | 205 | 247 | 296 |
| 40 | -  | 72 | 91 | 112 | 137 | 166 | 201 | 242 | 290 |
| 50 | -  | -  | 87 | 107 | 131 | 160 | 194 | 235 | 283 |
| 60 | -  | -  | -  | -   | 124 | 153 | 186 | 226 | 274 |

**Coefficient of performance (C.O.P.)**

|    |      |      |      |      |      |      |      |      |      |
|----|------|------|------|------|------|------|------|------|------|
| 10 | 3.11 | 3.83 | 4.68 | 5.70 | 6.89 | -    | -    | -    | -    |
| 20 | 2.27 | 2.80 | 3.43 | 4.16 | 5.03 | 6.04 | 7.22 | -    | -    |
| 30 | 1.61 | 2.00 | 2.45 | 2.98 | 3.60 | 4.32 | 5.15 | 6.12 | 7.25 |
| 40 | -    | 1.38 | 1.70 | 2.07 | 2.50 | 3.00 | 3.57 | 4.24 | 5.02 |
| 50 | -    | -    | 1.13 | 1.38 | 1.66 | 2.00 | 2.39 | 2.84 | 3.36 |
| 60 | -    | -    | -    | -    | 1.04 | 1.25 | 1.50 | 1.80 | 2.14 |

**Nominal performance at to = -10 °C, tc = 45 °C**

|                     |       |      |
|---------------------|-------|------|
| Cooling capacity    | 4 532 | W    |
| Power input         | 2 209 | W    |
| Current consumption | 11.81 | A    |
| Mass flow           | 134   | kg/h |
| C.O.P.              | 2.05  |      |

**Pressure switch settings**

|                           |      |        |
|---------------------------|------|--------|
| Maximum HP switch setting | 29.7 | bar(g) |
| Minimum LP switch setting | 1.4  | bar(g) |
| LP pump down setting      | 2    | bar(g) |

**Sound power data**

|                    |    |       |
|--------------------|----|-------|
| Sound power level  | 67 | dB(A) |
| With acoustic hood | 59 | dB(A) |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

All performance data +/- 5%

**Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R404A**

| Cond. temp. in<br>°C (tc) | Evaporating temperature in °C (to) |     |     |     |     |    |   |   |    |
|---------------------------|------------------------------------|-----|-----|-----|-----|----|---|---|----|
|                           | -30                                | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 |

**Cooling capacity in W**

|    |       |       |       |       |       |       |       |       |        |
|----|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 10 | 2 940 | 3 676 | 4 565 | 5 625 | 6 872 | -     | -     | -     | -      |
| 20 | 2 622 | 3 300 | 4 112 | 5 075 | 6 206 | 7 521 | 9 034 | -     | -      |
| 30 | 2 267 | 2 879 | 3 605 | 4 463 | 5 471 | 6 646 | 8 004 | 9 558 | 11 318 |
| 40 | 1 871 | 2 408 | 3 040 | 3 786 | 4 663 | 5 689 | 6 884 | 8 263 | 9 841  |
| 50 | -     | -     | 2 416 | 3 040 | 3 776 | 4 646 | 5 668 | 6 864 | 8 253  |
| 60 | -     | -     | -     | -     | 2 807 | 3 509 | 4 350 | 5 354 | 6 550  |

**Power input in W**

|    |       |       |       |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 10 | 983   | 993   | 1 001 | 1 007 | 1 010 | -     | -     | -     | -     |
| 20 | 1 231 | 1 242 | 1 252 | 1 259 | 1 264 | 1 265 | 1 263 | -     | -     |
| 30 | 1 541 | 1 554 | 1 566 | 1 575 | 1 580 | 1 582 | 1 580 | 1 574 | 1 562 |
| 40 | 1 929 | 1 946 | 1 959 | 1 969 | 1 976 | 1 979 | 1 978 | 1 971 | 1 960 |
| 50 | -     | -     | 2 448 | 2 460 | 2 468 | 2 472 | 2 471 | 2 465 | 2 453 |
| 60 | -     | -     | -     | -     | 3 072 | 3 077 | 3 077 | 3 071 | 3 060 |

**Current consumption in A**

|    |       |       |       |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 10 | 5.26  | 5.31  | 5.35  | 5.38  | 5.40  | -     | -     | -     | -     |
| 20 | 6.58  | 6.64  | 6.70  | 6.73  | 6.76  | 6.77  | 6.75  | -     | -     |
| 30 | 8.24  | 8.31  | 8.37  | 8.42  | 8.45  | 8.46  | 8.45  | 8.42  | 8.35  |
| 40 | 10.32 | 10.40 | 10.48 | 10.53 | 10.57 | 10.58 | 10.58 | 10.54 | 10.48 |
| 50 | -     | -     | 13.09 | 13.15 | 13.20 | 13.22 | 13.21 | 13.18 | 13.12 |
| 60 | -     | -     | -     | -     | 16.43 | 16.45 | 16.45 | 16.42 | 16.36 |

**Mass flow in kg/h**

|    |    |    |     |     |     |     |     |     |     |
|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| 10 | 66 | 85 | 107 | 130 | 156 | -   | -   | -   | -   |
| 20 | 68 | 87 | 108 | 131 | 156 | 186 | 219 | -   | -   |
| 30 | 68 | 87 | 107 | 129 | 155 | 183 | 216 | 254 | 296 |
| 40 | 66 | 85 | 104 | 126 | 151 | 179 | 212 | 249 | 290 |
| 50 | -  | -  | 99  | 121 | 145 | 173 | 205 | 242 | 283 |
| 60 | -  | -  | -   | -   | 137 | 165 | 197 | 233 | 274 |

**Coefficient of performance (C.O.P.)**

|    |      |      |      |      |      |      |      |      |      |
|----|------|------|------|------|------|------|------|------|------|
| 10 | 2.99 | 3.70 | 4.56 | 5.59 | 6.80 | -    | -    | -    | -    |
| 20 | 2.13 | 2.66 | 3.28 | 4.03 | 4.91 | 5.95 | 7.16 | -    | -    |
| 30 | 1.47 | 1.85 | 2.30 | 2.83 | 3.46 | 4.20 | 5.06 | 6.07 | 7.25 |
| 40 | 0.97 | 1.24 | 1.55 | 1.92 | 2.36 | 2.87 | 3.48 | 4.19 | 5.02 |
| 50 | -    | -    | 0.99 | 1.24 | 1.53 | 1.88 | 2.29 | 2.78 | 3.36 |
| 60 | -    | -    | -    | -    | 0.91 | 1.14 | 1.41 | 1.74 | 2.14 |

**Nominal performance at to = -10 °C, tc = 45 °C**

|                     |       |      |
|---------------------|-------|------|
| Cooling capacity    | 4 230 | W    |
| Power input         | 2 209 | W    |
| Current consumption | 11.81 | A    |
| Mass flow           | 148   | kg/h |
| C.O.P.              | 1.91  |      |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

**Pressure switch settings**

|                           |      |        |
|---------------------------|------|--------|
| Maximum HP switch setting | 29.7 | bar(g) |
| Minimum LP switch setting | 1.4  | bar(g) |
| LP pump down setting      | 2    | bar(g) |

**Sound power data**

|                     |    |       |
|---------------------|----|-------|
| Sound power level   | 67 | dB(A) |
| With accoustic hood | 59 | dB(A) |

All performance data +/- 5%



**Performance data at 50 Hz, EN 12900 rating conditions**
**R407F**

| Cond. temp. in<br>°C (tc) | Evaporating temperature in °C (to) |     |     |     |    |   |   |    |
|---------------------------|------------------------------------|-----|-----|-----|----|---|---|----|
|                           | -23                                | -20 | -15 | -10 | -5 | 0 | 5 | 10 |

**Cooling capacity in W**

|    |       |       |       |       |       |       |       |        |   |
|----|-------|-------|-------|-------|-------|-------|-------|--------|---|
| 10 | 3 654 | 4 171 | 5 165 | 6 344 | -     | -     | -     | -      | - |
| 20 | 3 295 | 3 787 | 4 734 | 5 858 | 7 179 | 8 720 | -     | -      | - |
| 30 | 2 883 | 3 339 | 4 219 | 5 267 | 6 506 | 7 955 | 9 638 | 11 575 | - |
| 40 | 2 434 | 2 842 | 3 636 | 4 589 | 5 725 | 7 064 | 8 628 | 10 438 | - |
| 45 | -     | -     | 3 324 | 4 223 | 5 300 | 6 576 | 8 074 | 9 813  | - |
| 50 | -     | -     | -     | 3 842 | 4 855 | 6 064 | 7 489 | 9 153  | - |
| 55 | -     | -     | -     | -     | 4 392 | 5 528 | 6 876 | 8 459  | - |
| 60 | -     | -     | -     | -     | -     | -     | -     | -      | - |

**Power input in W**

|    |       |       |       |       |       |       |       |       |   |
|----|-------|-------|-------|-------|-------|-------|-------|-------|---|
| 10 | 1 099 | 1 101 | 1 104 | 1 105 | -     | -     | -     | -     | - |
| 20 | 1 332 | 1 340 | 1 350 | 1 355 | 1 358 | 1 361 | -     | -     | - |
| 30 | 1 622 | 1 637 | 1 656 | 1 670 | 1 679 | 1 686 | 1 690 | 1 695 | - |
| 40 | 1 993 | 2 017 | 2 050 | 2 075 | 2 093 | 2 107 | 2 117 | 2 125 | - |
| 45 | -     | -     | 2 288 | 2 319 | 2 343 | 2 362 | 2 375 | 2 386 | - |
| 50 | -     | -     | -     | 2 596 | 2 627 | 2 650 | 2 669 | 2 683 | - |
| 55 | -     | -     | -     | -     | 2 946 | 2 976 | 3 000 | 3 018 | - |
| 60 | -     | -     | -     | -     | -     | -     | -     | -     | - |

**Current consumption in A**

|    |       |       |       |       |       |       |       |       |   |
|----|-------|-------|-------|-------|-------|-------|-------|-------|---|
| 10 | 6.32  | 6.40  | 6.48  | 6.52  | -     | -     | -     | -     | - |
| 20 | 8.32  | 8.41  | 8.51  | 8.56  | 8.58  | 8.59  | -     | -     | - |
| 30 | 9.48  | 9.57  | 9.67  | 9.73  | 9.76  | 9.77  | 9.79  | 9.83  | - |
| 40 | 10.51 | 10.59 | 10.68 | 10.74 | 10.77 | 10.78 | 10.81 | 10.85 | - |
| 45 | -     | -     | 11.36 | 11.41 | 11.43 | 11.45 | 11.47 | 11.51 | - |
| 50 | -     | -     | -     | 12.31 | 12.33 | 12.34 | 12.35 | 12.39 | - |
| 55 | -     | -     | -     | -     | 13.54 | 13.54 | 13.55 | 13.58 | - |
| 60 | -     | -     | -     | -     | -     | -     | -     | -     | - |

**Mass flow in kg/h**

|    |    |    |    |     |     |     |     |     |   |
|----|----|----|----|-----|-----|-----|-----|-----|---|
| 10 | 64 | 72 | 89 | 107 | -   | -   | -   | -   | - |
| 20 | 62 | 71 | 87 | 107 | 129 | 155 | -   | -   | - |
| 30 | 59 | 68 | 85 | 104 | 127 | 153 | 183 | 218 | - |
| 40 | 55 | 64 | 80 | 100 | 122 | 149 | 180 | 215 | - |
| 45 | -  | -  | 77 | 97  | 119 | 146 | 177 | 212 | - |
| 50 | -  | -  | -  | 93  | 116 | 142 | 173 | 208 | - |
| 55 | -  | -  | -  | -   | 112 | 138 | 169 | 204 | - |
| 60 | -  | -  | -  | -   | -   | -   | -   | -   | - |

**Coefficient of performance (C.O.P.)**

|    |      |      |      |      |      |      |      |      |   |
|----|------|------|------|------|------|------|------|------|---|
| 10 | 3.33 | 3.79 | 4.68 | 5.74 | -    | -    | -    | -    | - |
| 20 | 2.47 | 2.83 | 3.51 | 4.32 | 5.29 | 6.41 | -    | -    | - |
| 30 | 1.78 | 2.04 | 2.55 | 3.15 | 3.87 | 4.72 | 5.70 | 6.83 | - |
| 40 | 1.22 | 1.41 | 1.77 | 2.21 | 2.73 | 3.35 | 4.08 | 4.91 | - |
| 45 | -    | -    | 1.45 | 1.82 | 2.26 | 2.78 | 3.40 | 4.11 | - |
| 50 | -    | -    | -    | 1.48 | 1.85 | 2.29 | 2.81 | 3.41 | - |
| 55 | -    | -    | -    | -    | 1.49 | 1.86 | 2.29 | 2.80 | - |
| 60 | -    | -    | -    | -    | -    | -    | -    | -    | - |

**Nominal performance at to = -10 °C, tc = 45 °C**

|                     |       |      |
|---------------------|-------|------|
| Cooling capacity    | 4 223 | W    |
| Power input         | 2 319 | W    |
| Current consumption | 11.41 | A    |
| Mass flow           | 97    | kg/h |
| C.O.P.              | 1.82  |      |

**Pressure switch settings**

|                           |      |        |
|---------------------------|------|--------|
| Maximum HP switch setting | 29.7 | bar(g) |
| Minimum LP switch setting | 1.4  | bar(g) |
| LP pump down setting      | 2    | bar(g) |

**Sound power data**

|                    |    |       |
|--------------------|----|-------|
| Sound power level  | 67 | dB(A) |
| With acoustic hood | 59 | dB(A) |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

All performance data +/- 5%

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Performance data at 50 Hz, ARI rating conditions

R407F

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) |     |     |     |    |   |   |    |
|------------------------|------------------------------------|-----|-----|-----|----|---|---|----|
|                        | -23                                | -20 | -15 | -10 | -5 | 0 | 5 | 10 |

Cooling capacity in W

|    |       |       |       |       |       |       |        |        |   |
|----|-------|-------|-------|-------|-------|-------|--------|--------|---|
| 10 | 3 862 | 4 406 | 5 453 | 6 692 | -     | -     | -      | -      | - |
| 20 | 3 503 | 4 025 | 5 027 | 6 215 | 7 611 | 9 237 | -      | -      | - |
| 30 | 3 088 | 3 575 | 4 512 | 5 628 | 6 945 | 8 485 | 10 271 | 12 325 | - |
| 40 | -     | 3 073 | 3 926 | 4 950 | 6 168 | 7 603 | 9 276  | 11 211 | - |
| 45 | -     | -     | 3 612 | 4 582 | 5 743 | 7 118 | 8 728  | 10 597 | - |
| 50 | -     | -     | -     | 4 198 | 5 298 | 6 608 | 8 150  | 9 949  | - |
| 55 | -     | -     | -     | -     | -     | 6 076 | 7 547  | 9 272  | - |
| 60 | -     | -     | -     | -     | -     | -     | -      | -      | - |

Power input in W

|    |       |       |       |       |       |       |       |       |   |
|----|-------|-------|-------|-------|-------|-------|-------|-------|---|
| 10 | 1 099 | 1 101 | 1 104 | 1 105 | -     | -     | -     | -     | - |
| 20 | 1 332 | 1 340 | 1 350 | 1 355 | 1 358 | 1 361 | -     | -     | - |
| 30 | 1 622 | 1 637 | 1 656 | 1 670 | 1 679 | 1 686 | 1 690 | 1 695 | - |
| 40 | -     | 2 017 | 2 050 | 2 075 | 2 093 | 2 107 | 2 117 | 2 125 | - |
| 45 | -     | -     | 2 288 | 2 319 | 2 343 | 2 362 | 2 375 | 2 386 | - |
| 50 | -     | -     | -     | 2 596 | 2 627 | 2 650 | 2 669 | 2 683 | - |
| 55 | -     | -     | -     | -     | -     | 2 976 | 3 000 | 3 018 | - |
| 60 | -     | -     | -     | -     | -     | -     | -     | -     | - |

Current consumption in A

|    |      |       |       |       |       |       |       |       |   |
|----|------|-------|-------|-------|-------|-------|-------|-------|---|
| 10 | 6.32 | 6.40  | 6.48  | 6.52  | -     | -     | -     | -     | - |
| 20 | 8.32 | 8.41  | 8.51  | 8.56  | 8.58  | 8.59  | -     | -     | - |
| 30 | 9.48 | 9.57  | 9.67  | 9.73  | 9.76  | 9.77  | 9.79  | 9.83  | - |
| 40 | -    | 10.59 | 10.68 | 10.74 | 10.77 | 10.78 | 10.81 | 10.85 | - |
| 45 | -    | -     | 11.36 | 11.41 | 11.43 | 11.45 | 11.47 | 11.51 | - |
| 50 | -    | -     | -     | 12.31 | 12.33 | 12.34 | 12.35 | 12.39 | - |
| 55 | -    | -     | -     | -     | -     | 13.54 | 13.55 | 13.58 | - |
| 60 | -    | -     | -     | -     | -     | -     | -     | -     | - |

Mass flow in kg/h

|    |    |    |    |     |     |     |     |     |   |
|----|----|----|----|-----|-----|-----|-----|-----|---|
| 10 | 63 | 72 | 88 | 107 | -   | -   | -   | -   | - |
| 20 | 62 | 70 | 87 | 106 | 128 | 154 | -   | -   | - |
| 30 | 59 | 68 | 84 | 104 | 126 | 152 | 182 | 216 | - |
| 40 | -  | 63 | 80 | 99  | 122 | 148 | 179 | 213 | - |
| 45 | -  | -  | 77 | 96  | 119 | 145 | 176 | 211 | - |
| 50 | -  | -  | -  | 93  | 115 | 142 | 172 | 207 | - |
| 55 | -  | -  | -  | -   | -   | 137 | 168 | 203 | - |
| 60 | -  | -  | -  | -   | -   | -   | -   | -   | - |

Coefficient of performance (C.O.P.)

|    |      |      |      |      |      |      |      |      |   |
|----|------|------|------|------|------|------|------|------|---|
| 10 | 3.52 | 4.00 | 4.94 | 6.06 | -    | -    | -    | -    | - |
| 20 | 2.63 | 3.00 | 3.73 | 4.59 | 5.60 | 6.79 | -    | -    | - |
| 30 | 1.90 | 2.18 | 2.72 | 3.37 | 4.14 | 5.03 | 6.08 | 7.27 | - |
| 40 | -    | 1.52 | 1.92 | 2.39 | 2.95 | 3.61 | 4.38 | 5.28 | - |
| 45 | -    | -    | 1.58 | 1.98 | 2.45 | 3.01 | 3.67 | 4.44 | - |
| 50 | -    | -    | -    | 1.62 | 2.02 | 2.49 | 3.05 | 3.71 | - |
| 55 | -    | -    | -    | -    | -    | 2.04 | 2.52 | 3.07 | - |
| 60 | -    | -    | -    | -    | -    | -    | -    | -    | - |

Nominal performance at to = -10 °C, tc = 45 °C

|                     |       |      |
|---------------------|-------|------|
| Cooling capacity    | 4 582 | W    |
| Power input         | 2 319 | W    |
| Current consumption | 11.41 | A    |
| Mass flow           | 96    | kg/h |
| C.O.P.              | 1.98  |      |

Pressure switch settings

|                           |      |        |
|---------------------------|------|--------|
| Maximum HP switch setting | 29.7 | bar(g) |
| Minimum LP switch setting | 1.4  | bar(g) |
| LP pump down setting      | 2    | bar(g) |

Sound power data

|                    |    |       |
|--------------------|----|-------|
| Sound power level  | 67 | dB(A) |
| With acoustic hood | 59 | dB(A) |

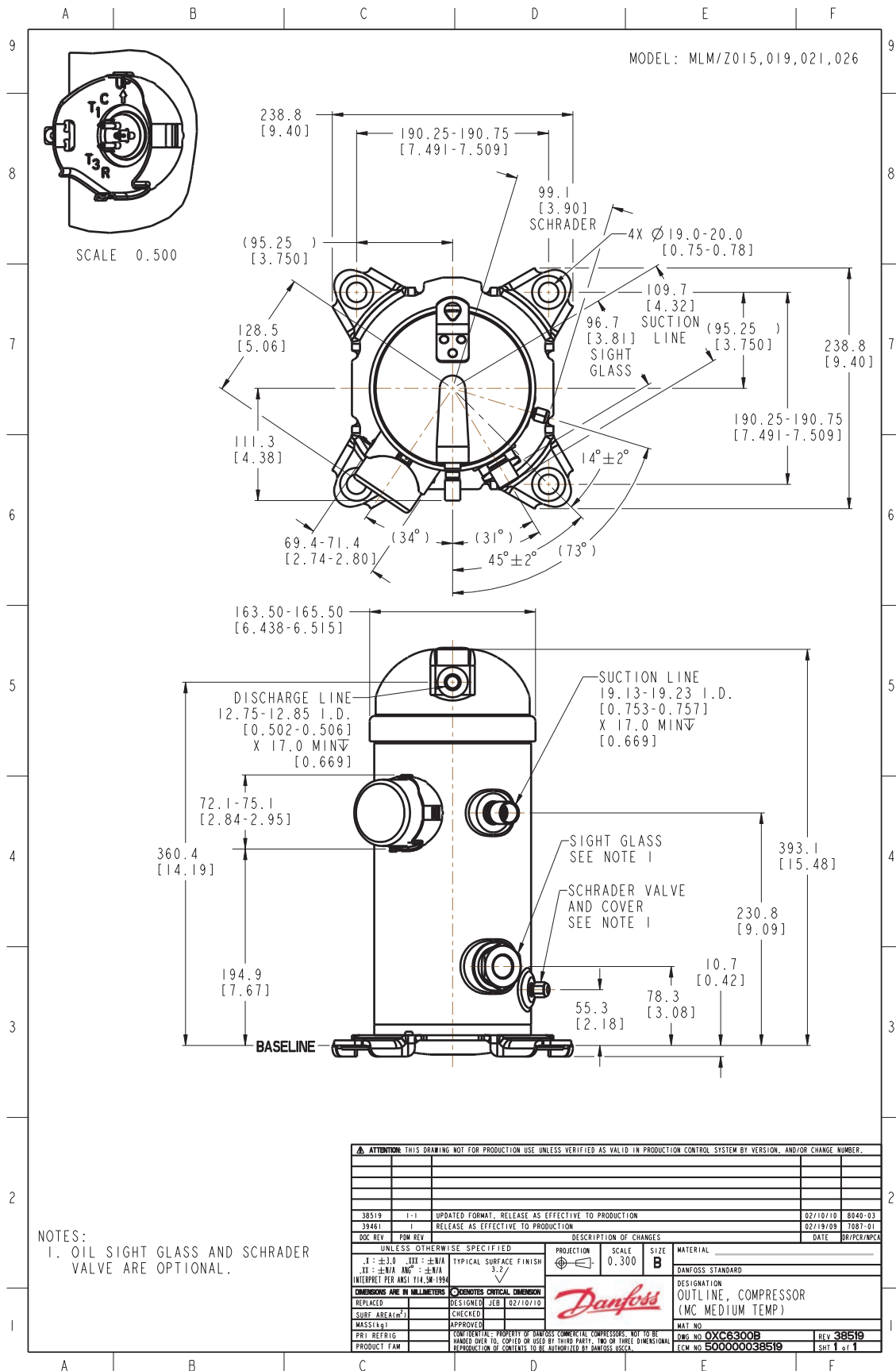
to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

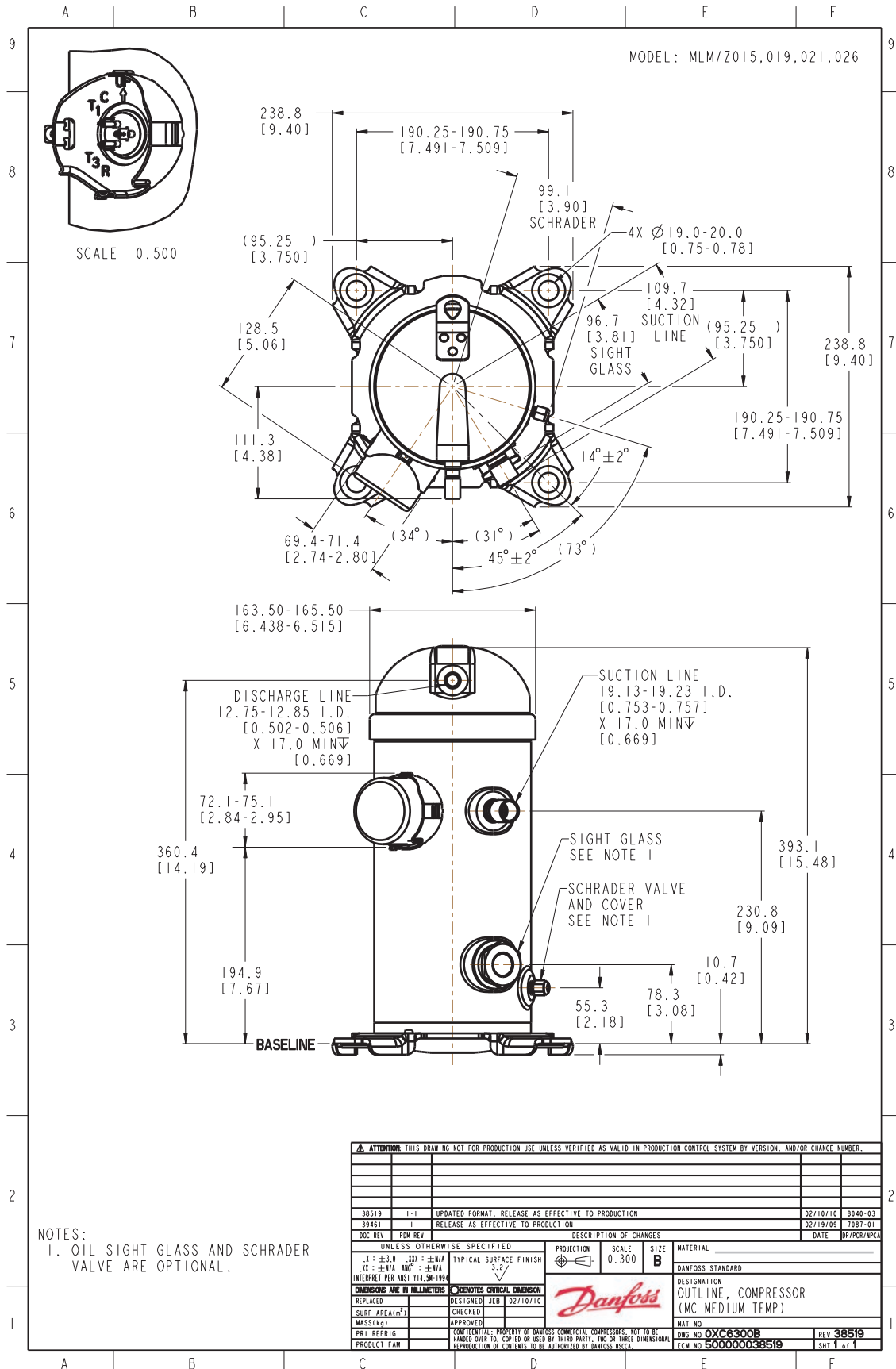
Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

All performance data +/- 5%

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NOTES:  
1. OIL SIGHT GLASS AND SCHRADER VALVE ARE OPTIONAL.



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