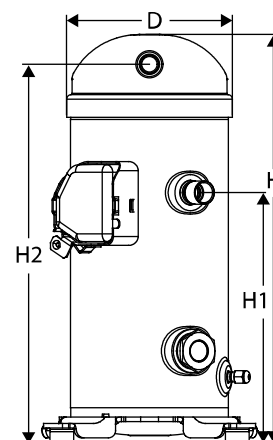


## General Characteristics

|  |                                    |                    |
|--|------------------------------------|--------------------|
| Model number (on compressor nameplate) |                                    | <b>VZH065CHANB</b> |
| Code number for Singlepack*            |                                    | 120G0150           |
| Code number for Industrial pack**      |                                    | 120G0144           |
| Drawing number                         |                                    | 8590007            |
| Suction and discharge connections      |                                    | Brazed             |
| Suction connection                     |                                    | 7/8" ODF           |
| Discharge connection                   |                                    | 3/4" ODF           |
| Oil sight glass                        |                                    | None               |
| Oil equalization connection            |                                    | None               |
| Oil drain connection                   |                                    | 1/4" flare         |
| LP gauge port                          |                                    | None               |
| IPR valve                              |                                    | None               |
| Swept volume                           | 3.97 in <sup>3</sup> /rev          |                    |
| Displacement @ Nominal speed           | 496.6 m <sup>3</sup> /h @ 3600 rpm |                    |
| Net weight                             | 77 lbs                             |                    |
| Oil charge                             | 53 oz, PVE - FVC32D                |                    |
| Maximum number of starts per hour      | 12                                 |                    |
| Refrigerant charge limit               | 12 lbs                             |                    |
| Approved refrigerants                  | R410A                              |                    |

## Dimensions



D=7.2 inch, H=17.9 inch,  
H1=11 inch, H2=16.6 inch, H3=- inch

## Electrical Characteristics

|  |   |
|--|---|
| Nominal voltage                                    | Supply voltage 525-600V/3/50-60Hz       |
| Voltage range                                      | 473-660 V supply to frequency converter |
| Winding resistance (between phases) +/- 7% at 77°F | 0.177 Ω                                 |
| Rated Load Amps (RLA)                              | 27.2 A                                  |
| Motor protection                                   | Motor protection by frequency converter |

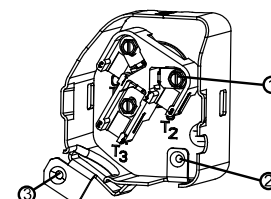
## Terminal box

## Recommended Installation torques

|                                      |                     |
|--------------------------------------|---------------------|
| Oil sight glass                      | 39 ft.lbs           |
| Power connections / Earth connection | 2 ft.lbs / 1 ft.lbs |
| Mounting bolts                       | 8 ft.lbs            |

## Parts shipped with compressor

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



IP22

- 1: Power connections
- 2: Earth connection
- 3: EMC bracket with shielded cable

**Approvals :** CE certified, UL certified (file SA6873), -

\*Singlepack: Compressor in cardboard box

\*\*Industrial pack: 12 Unboxed compressors on pallet (order per multiples of 12)

**Rotolock accessories, suction side**
**Code no.**

|   |         |
|---|---------|
| Rotolock valve, V05 (1-1/4" Rotolock, 7/8" ODF) | 8168030 |
| Gasket, 1-1/4"                                  | 8156131 |

**Rotolock accessories, discharge side**
**Code no.**

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

**Rotolock accessories, sets**
**Code no.**

|   |          |
|---|----------|
| Solder sleeve adapter set (1-1/4"~7/8"), (1-1/4"~3/4")    | 120Z0128 |
| Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white | 8156009  |

**Oil / lubricants**
**Code no.**
**Crankcase heaters**
**Code no.**

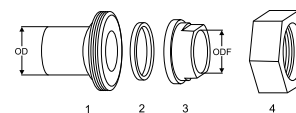
|  |          |
|--|----------|
| Belt type crankcase heater, 65 W, 230 V, CE mark, UL | 120Z0059 |
| Belt type crankcase heater, 65 W, 400 V, CE mark, UL | 120Z0060 |
| Belt type crankcase heater, 70 W, 460 V, UL          | 120Z5012 |
| Belt type crankcase heater, 70 W, 575 V, UL          | 120Z5013 |

**Miscellaneous accessories**
**Code no.**

|               |          |
|---------------|----------|
| Acoustic hood | 120Z5084 |
|---------------|----------|

**Spare parts**
**Code no.**

|  |          |
|--|----------|
| Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers, 2 grounding screws | 120Z0622 |
| Terminal box cover   | 120Z5018 |

**Solder sleeve adapter set**


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

**Performance data at 17 Hz, ARI rating conditions**
**R410A**

| Cond. temp.<br>in °F (tc) | Evaporating temperature in °F (to) |     |    |   |    |    |    |    |    |
|---------------------------|------------------------------------|-----|----|---|----|----|----|----|----|
|                           | -25                                | -15 | -5 | 5 | 15 | 30 | 50 | 60 | 70 |

**Cooling capacity in Btu/h**

|     |   |   |   |        |        |        |        |   |   |
|-----|---|---|---|--------|--------|--------|--------|---|---|
| 45  | - | - | - | -      | -      | -      | -      | - | - |
| 60  | - | - | - | 12 923 | 16 281 | 21 537 | 29 109 | - | - |
| 70  | - | - | - | 11 529 | 15 165 | 20 833 | 28 946 | - | - |
| 90  | - | - | - | 7 645  | 11 792 | 18 217 | 27 322 | - | - |
| 100 | - | - | - | -      | -      | -      | -      | - | - |
| 110 | - | - | - | -      | -      | -      | -      | - | - |
| 130 | - | - | - | -      | -      | -      | -      | - | - |

**Power input in W**

|     |   |   |   |       |       |       |       |   |   |
|-----|---|---|---|-------|-------|-------|-------|---|---|
| 45  | - | - | - | -     | -     | -     | -     | - | - |
| 60  | - | - | - | 817   | 823   | 767   | 454   | - | - |
| 70  | - | - | - | 917   | 920   | 902   | 712   | - | - |
| 90  | - | - | - | 1 322 | 1 253 | 1 206 | 1 128 | - | - |
| 100 | - | - | - | -     | -     | -     | -     | - | - |
| 110 | - | - | - | -     | -     | -     | -     | - | - |
| 130 | - | - | - | -     | -     | -     | -     | - | - |

**Current consumption in A**

|     |   |   |   |      |      |      |      |   |   |
|-----|---|---|---|------|------|------|------|---|---|
| 45  | - | - | - | -    | -    | -    | -    | - | - |
| 60  | - | - | - | 1.51 | 1.29 | 0.88 | 0.30 | - | - |
| 70  | - | - | - | 1.94 | 1.82 | 1.52 | 0.97 | - | - |
| 90  | - | - | - | 2.40 | 2.54 | 2.52 | 2.15 | - | - |
| 100 | - | - | - | -    | -    | -    | -    | - | - |
| 110 | - | - | - | -    | -    | -    | -    | - | - |
| 130 | - | - | - | -    | -    | -    | -    | - | - |

**Mass flow in lbs/h**

|     |   |   |   |     |     |     |     |   |   |
|-----|---|---|---|-----|-----|-----|-----|---|---|
| 45  | - | - | - | -   | -   | -   | -   | - | - |
| 60  | - | - | - | 140 | 174 | 226 | 301 | - | - |
| 70  | - | - | - | 130 | 168 | 226 | 309 | - | - |
| 90  | - | - | - | 95  | 144 | 217 | 319 | - | - |
| 100 | - | - | - | -   | -   | -   | -   | - | - |
| 110 | - | - | - | -   | -   | -   | -   | - | - |
| 130 | - | - | - | -   | -   | -   | -   | - | - |

**Energy Efficiency Ratio (E.E.R.)**

|     |   |   |   |       |       |       |       |   |   |
|-----|---|---|---|-------|-------|-------|-------|---|---|
| 45  | - | - | - | -     | -     | -     | -     | - | - |
| 60  | - | - | - | 15.82 | 19.79 | 28.06 | 64.10 | - | - |
| 70  | - | - | - | 12.58 | 16.48 | 23.10 | 40.65 | - | - |
| 90  | - | - | - | 5.78  | 9.41  | 15.10 | 24.22 | - | - |
| 100 | - | - | - | -     | -     | -     | -     | - | - |
| 110 | - | - | - | -     | -     | -     | -     | - | - |
| 130 | - | - | - | -     | -     | -     | -     | - | - |

**Nominal performance at to = 45 °F, tc = 130 °F**

|                  |   |       |                     |   |       |
|------------------|---|-------|---------------------|---|-------|
| Cooling capacity | - | Btu/h | Current consumption | - | A     |
| Power input      | - | W     | Mass flow           | - | lbs/h |
| E.E.R.           | - |       |                     |   |       |

**Pressure switch settings**

|                           |     |        |
|---------------------------|-----|--------|
| Maximum HP switch setting | 634 | psi(g) |
| Minimum LP switch setting | 22  | psi(g) |
| LP pump down setting      | 22  | psi(g) |

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 15 °F

Tolerance according EN12900

**Sound power data**

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

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**Performance data at 20 Hz, ARI rating conditions**
**R410A**

| Cond. temp.<br>in °F (to) | Evaporating temperature in °F (to) |     |    |   |    |    |    |    |    |
|---------------------------|------------------------------------|-----|----|---|----|----|----|----|----|
|                           | -25                                | -15 | -5 | 5 | 15 | 30 | 50 | 60 | 70 |

**Cooling capacity in Btu/h**

|     |   |   |   |        |        |        |        |   |   |
|-----|---|---|---|--------|--------|--------|--------|---|---|
| 45  | - | - | - | -      | -      | -      | -      | - | - |
| 60  | - | - | - | 15 530 | 19 563 | 26 067 | 35 797 | - | - |
| 70  | - | - | - | 14 021 | 18 309 | 25 186 | 35 393 | - | - |
| 90  | - | - | - | 9 844  | 14 578 | 22 101 | 33 130 | - | - |
| 100 | - | - | - | -      | -      | -      | -      | - | - |
| 110 | - | - | - | -      | -      | -      | -      | - | - |
| 130 | - | - | - | -      | -      | -      | -      | - | - |

**Power input in W**

|     |   |   |   |       |       |       |       |   |   |
|-----|---|---|---|-------|-------|-------|-------|---|---|
| 45  | - | - | - | -     | -     | -     | -     | - | - |
| 60  | - | - | - | 951   | 947   | 862   | 465   | - | - |
| 70  | - | - | - | 1 073 | 1 073 | 1 035 | 779   | - | - |
| 90  | - | - | - | 1 514 | 1 452 | 1 405 | 1 295 | - | - |
| 100 | - | - | - | -     | -     | -     | -     | - | - |
| 110 | - | - | - | -     | -     | -     | -     | - | - |
| 130 | - | - | - | -     | -     | -     | -     | - | - |

**Current consumption in A**

|     |   |   |   |      |      |      |      |   |   |
|-----|---|---|---|------|------|------|------|---|---|
| 45  | - | - | - | -    | -    | -    | -    | - | - |
| 60  | - | - | - | 1.68 | 1.50 | 1.12 | 0.46 | - | - |
| 70  | - | - | - | 2.09 | 1.99 | 1.71 | 1.14 | - | - |
| 90  | - | - | - | 2.62 | 2.73 | 2.70 | 2.33 | - | - |
| 100 | - | - | - | -    | -    | -    | -    | - | - |
| 110 | - | - | - | -    | -    | -    | -    | - | - |
| 130 | - | - | - | -    | -    | -    | -    | - | - |

**Mass flow in lbs/h**

|     |   |   |   |     |     |     |     |   |   |
|-----|---|---|---|-----|-----|-----|-----|---|---|
| 45  | - | - | - | -   | -   | -   | -   | - | - |
| 60  | - | - | - | 168 | 209 | 274 | 370 | - | - |
| 70  | - | - | - | 158 | 203 | 274 | 378 | - | - |
| 90  | - | - | - | 122 | 178 | 264 | 387 | - | - |
| 100 | - | - | - | -   | -   | -   | -   | - | - |
| 110 | - | - | - | -   | -   | -   | -   | - | - |
| 130 | - | - | - | -   | -   | -   | -   | - | - |

**Energy Efficiency Ratio (E.E.R.)**

|     |   |   |   |       |       |       |       |   |   |
|-----|---|---|---|-------|-------|-------|-------|---|---|
| 45  | - | - | - | -     | -     | -     | -     | - | - |
| 60  | - | - | - | 16.34 | 20.65 | 30.25 | 77.06 | - | - |
| 70  | - | - | - | 13.07 | 17.06 | 24.33 | 45.42 | - | - |
| 90  | - | - | - | 6.50  | 10.04 | 15.73 | 25.58 | - | - |
| 100 | - | - | - | -     | -     | -     | -     | - | - |
| 110 | - | - | - | -     | -     | -     | -     | - | - |
| 130 | - | - | - | -     | -     | -     | -     | - | - |

**Nominal performance at to = 45 °F, tc = 130 °F**

|                  |   |       |                     |   |       |
|------------------|---|-------|---------------------|---|-------|
| Cooling capacity | - | Btu/h | Current consumption | - | A     |
| Power input      | - | W     | Mass flow           | - | lbs/h |
| E.E.R.           | - |       |                     |   |       |

**Pressure switch settings**

|                           |     |        |
|---------------------------|-----|--------|
| Maximum HP switch setting | 634 | psi(g) |
| Minimum LP switch setting | 22  | psi(g) |
| LP pump down setting      | 22  | psi(g) |

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 15 °F

Tolerance according EN12900

**Sound power data**

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

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**Performance data at 25 Hz, ARI rating conditions**
**R410A**

| Cond. temp.<br>in °F (tc) | Evaporating temperature in °F (to) |     |    |   |    |    |    |    |    |
|---------------------------|------------------------------------|-----|----|---|----|----|----|----|----|
|                           | -25                                | -15 | -5 | 5 | 15 | 30 | 50 | 60 | 70 |

**Cooling capacity in Btu/h**

|     |   |   |   |        |        |        |        |   |   |
|-----|---|---|---|--------|--------|--------|--------|---|---|
| 45  | - | - | - | -      | -      | -      | -      | - | - |
| 60  | - | - | - | 19 466 | 24 515 | 32 901 | 45 894 | - | - |
| 70  | - | - | - | 17 786 | 23 057 | 31 756 | 45 127 | - | - |
| 90  | - | - | - | 13 182 | 18 799 | 27 977 | 41 912 | - | - |
| 100 | - | - | - | -      | -      | -      | -      | - | - |
| 110 | - | - | - | -      | -      | -      | -      | - | - |
| 130 | - | - | - | -      | -      | -      | -      | - | - |

**Power input in W**

|     |   |   |   |       |       |       |       |   |   |
|-----|---|---|---|-------|-------|-------|-------|---|---|
| 45  | - | - | - | -     | -     | -     | -     | - | - |
| 60  | - | - | - | 1 160 | 1 145 | 1 016 | 499   | - | - |
| 70  | - | - | - | 1 317 | 1 313 | 1 247 | 897   | - | - |
| 90  | - | - | - | 1 811 | 1 760 | 1 714 | 1 561 | - | - |
| 100 | - | - | - | -     | -     | -     | -     | - | - |
| 110 | - | - | - | -     | -     | -     | -     | - | - |
| 130 | - | - | - | -     | -     | -     | -     | - | - |

**Current consumption in A**

|     |   |   |   |      |      |      |      |   |   |
|-----|---|---|---|------|------|------|------|---|---|
| 45  | - | - | - | -    | -    | -    | -    | - | - |
| 60  | - | - | - | 1.96 | 1.82 | 1.48 | 0.72 | - | - |
| 70  | - | - | - | 2.34 | 2.27 | 2.02 | 1.40 | - | - |
| 90  | - | - | - | 2.98 | 3.04 | 2.99 | 2.62 | - | - |
| 100 | - | - | - | -    | -    | -    | -    | - | - |
| 110 | - | - | - | -    | -    | -    | -    | - | - |
| 130 | - | - | - | -    | -    | -    | -    | - | - |

**Mass flow in lbs/h**

|     |   |   |   |     |     |     |     |   |   |
|-----|---|---|---|-----|-----|-----|-----|---|---|
| 45  | - | - | - | -   | -   | -   | -   | - | - |
| 60  | - | - | - | 211 | 262 | 345 | 474 | - | - |
| 70  | - | - | - | 200 | 256 | 346 | 483 | - | - |
| 90  | - | - | - | 163 | 229 | 334 | 490 | - | - |
| 100 | - | - | - | -   | -   | -   | -   | - | - |
| 110 | - | - | - | -   | -   | -   | -   | - | - |
| 130 | - | - | - | -   | -   | -   | -   | - | - |

**Energy Efficiency Ratio (E.E.R.)**

|     |   |   |   |       |       |       |       |   |   |
|-----|---|---|---|-------|-------|-------|-------|---|---|
| 45  | - | - | - | -     | -     | -     | -     | - | - |
| 60  | - | - | - | 16.78 | 21.42 | 32.37 | 92.02 | - | - |
| 70  | - | - | - | 13.51 | 17.57 | 25.47 | 50.30 | - | - |
| 90  | - | - | - | 7.28  | 10.68 | 16.32 | 26.86 | - | - |
| 100 | - | - | - | -     | -     | -     | -     | - | - |
| 110 | - | - | - | -     | -     | -     | -     | - | - |
| 130 | - | - | - | -     | -     | -     | -     | - | - |

**Nominal performance at to = 45 °F, tc = 130 °F**

|                  |   |       |                     |   |       |
|------------------|---|-------|---------------------|---|-------|
| Cooling capacity | - | Btu/h | Current consumption | - | A     |
| Power input      | - | W     | Mass flow           | - | lbs/h |
| E.E.R.           | - |       |                     |   |       |

**Pressure switch settings**

|                           |     |        |
|---------------------------|-----|--------|
| Maximum HP switch setting | 634 | psi(g) |
| Minimum LP switch setting | 22  | psi(g) |
| LP pump down setting      | 22  | psi(g) |

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 15 °F

Tolerance according EN12900

**Sound power data**

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

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**Performance data at 30 Hz, ARI rating conditions**
**R410A**

| Cond. temp.<br>in °F (tc) | Evaporating temperature in °F (to) |     |    |   |    |    |    |    |    |
|---------------------------|------------------------------------|-----|----|---|----|----|----|----|----|
|                           | -25                                | -15 | -5 | 5 | 15 | 30 | 50 | 60 | 70 |

**Cooling capacity in Btu/h**

|     |   |        |        |        |        |        |        |   |   |
|-----|---|--------|--------|--------|--------|--------|--------|---|---|
| 45  | - | -      | -      | -      | -      | -      | -      | - | - |
| 60  | - | 12 815 | 17 866 | 23 385 | 29 443 | 39 701 | 55 947 | - | - |
| 70  | - | 10 547 | 15 818 | 21 540 | 27 786 | 38 295 | 54 820 | - | - |
| 90  | - | -      | 10 522 | 16 525 | 23 020 | 33 842 | 50 671 | - | - |
| 100 | - | -      | -      | 13 441 | 19 997 | 30 881 | 47 737 | - | - |
| 110 | - | -      | -      | -      | 16 606 | 27 489 | 44 286 | - | - |
| 130 | - | -      | -      | -      | -      | -      | -      | - | - |

**Power input in W**

|     |   |       |       |       |       |       |       |   |   |
|-----|---|-------|-------|-------|-------|-------|-------|---|---|
| 45  | - | -     | -     | -     | -     | -     | -     | - | - |
| 60  | - | 1 375 | 1 376 | 1 379 | 1 352 | 1 185 | 555   | - | - |
| 70  | - | 1 605 | 1 573 | 1 569 | 1 561 | 1 471 | 1 034 | - | - |
| 90  | - | -     | 2 208 | 2 118 | 2 077 | 2 033 | 1 840 | - | - |
| 100 | - | -     | -     | 2 537 | 2 443 | 2 369 | 2 227 | - | - |
| 110 | - | -     | -     | -     | 2 921 | 2 782 | 2 643 | - | - |
| 130 | - | -     | -     | -     | -     | -     | -     | - | - |

**Current consumption in A**

|     |   |      |      |      |      |      |      |   |   |
|-----|---|------|------|------|------|------|------|---|---|
| 45  | - | -    | -    | -    | -    | -    | -    | - | - |
| 60  | - | 2.23 | 2.26 | 2.25 | 2.15 | 1.84 | 0.99 | - | - |
| 70  | - | 2.52 | 2.58 | 2.60 | 2.56 | 2.35 | 1.69 | - | - |
| 90  | - | -    | 3.29 | 3.35 | 3.37 | 3.30 | 2.94 | - | - |
| 100 | - | -    | -    | 3.79 | 3.82 | 3.80 | 3.54 | - | - |
| 110 | - | -    | -    | -    | 4.33 | 4.34 | 4.17 | - | - |
| 130 | - | -    | -    | -    | -    | -    | -    | - | - |

**Mass flow in lbs/h**

|     |   |     |     |     |     |     |     |   |   |
|-----|---|-----|-----|-----|-----|-----|-----|---|---|
| 45  | - | -   | -   | -   | -   | -   | -   | - | - |
| 60  | - | 142 | 196 | 253 | 314 | 417 | 577 | - | - |
| 70  | - | 122 | 181 | 243 | 308 | 417 | 587 | - | - |
| 90  | - | -   | 132 | 204 | 280 | 404 | 593 | - | - |
| 100 | - | -   | -   | 175 | 256 | 388 | 587 | - | - |
| 110 | - | -   | -   | -   | 225 | 365 | 575 | - | - |
| 130 | - | -   | -   | -   | -   | -   | -   | - | - |

**Energy Efficiency Ratio (E.E.R.)**

|     |   |      |       |       |       |       |        |   |   |
|-----|---|------|-------|-------|-------|-------|--------|---|---|
| 45  | - | -    | -     | -     | -     | -     | -      | - | - |
| 60  | - | 9.32 | 12.99 | 16.96 | 21.77 | 33.50 | 100.80 | - | - |
| 70  | - | 6.57 | 10.05 | 13.73 | 17.80 | 26.03 | 52.99  | - | - |
| 90  | - | -    | 4.77  | 7.80  | 11.09 | 16.65 | 27.53  | - | - |
| 100 | - | -    | -     | 5.30  | 8.19  | 13.04 | 21.43  | - | - |
| 110 | - | -    | -     | -     | 5.68  | 9.88  | 16.76  | - | - |
| 130 | - | -    | -     | -     | -     | -     | -      | - | - |

**Nominal performance at to = 45 °F, tc = 130 °F**

|                  |   |       |                     |   |       |
|------------------|---|-------|---------------------|---|-------|
| Cooling capacity | - | Btu/h | Current consumption | - | A     |
| Power input      | - | W     | Mass flow           | - | lbs/h |
| E.E.R.           | - |       |                     |   |       |

**Pressure switch settings**

|                           |     |        |
|---------------------------|-----|--------|
| Maximum HP switch setting | 634 | psi(g) |
| Minimum LP switch setting | 22  | psi(g) |
| LP pump down setting      | 22  | psi(g) |

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 15 °F

Tolerance according EN12900

**Sound power data**

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

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**Performance data at 35 Hz, ARI rating conditions**
**R410A**

| Cond. temp.<br>in °F (to) | Evaporating temperature in °F (to) |     |    |   |    |    |    |    |    |
|---------------------------|------------------------------------|-----|----|---|----|----|----|----|----|
|                           | -25                                | -15 | -5 | 5 | 15 | 30 | 50 | 60 | 70 |

**Cooling capacity in Btu/h**

|     |   |        |        |        |        |        |        |   |   |
|-----|---|--------|--------|--------|--------|--------|--------|---|---|
| 45  | - | -      | -      | -      | -      | -      | -      | - | - |
| 60  | - | 15 209 | 20 937 | 27 287 | 34 346 | 46 466 | 65 957 | - | - |
| 70  | - | 12 833 | 18 759 | 25 283 | 32 496 | 44 805 | 64 472 | - | - |
| 90  | - | -      | 13 153 | 19 874 | 27 240 | 39 698 | 59 409 | - | - |
| 100 | - | -      | -      | 16 567 | 23 933 | 36 349 | 55 930 | - | - |
| 110 | - | -      | -      | -      | 20 239 | 32 537 | 51 884 | - | - |
| 130 | - | -      | -      | -      | -      | -      | -      | - | - |

**Power input in W**

|     |   |       |       |       |       |       |       |   |   |
|-----|---|-------|-------|-------|-------|-------|-------|---|---|
| 45  | - | -     | -     | -     | -     | -     | -     | - | - |
| 60  | - | 1 604 | 1 606 | 1 607 | 1 571 | 1 368 | 633   | - | - |
| 70  | - | 1 858 | 1 831 | 1 830 | 1 819 | 1 708 | 1 191 | - | - |
| 90  | - | -     | 2 512 | 2 434 | 2 402 | 2 361 | 2 135 | - | - |
| 100 | - | -     | -     | 2 875 | 2 795 | 2 735 | 2 581 | - | - |
| 110 | - | -     | -     | -     | 3 297 | 3 181 | 3 049 | - | - |
| 130 | - | -     | -     | -     | -     | -     | -     | - | - |

**Current consumption in A**

|     |   |      |      |      |      |      |      |   |   |
|-----|---|------|------|------|------|------|------|---|---|
| 45  | - | -    | -    | -    | -    | -    | -    | - | - |
| 60  | - | 2.46 | 2.53 | 2.55 | 2.50 | 2.21 | 1.28 | - | - |
| 70  | - | 2.81 | 2.86 | 2.89 | 2.87 | 2.68 | 1.99 | - | - |
| 90  | - | -    | 3.75 | 3.73 | 3.72 | 3.64 | 3.28 | - | - |
| 100 | - | -    | -    | 4.28 | 4.24 | 4.16 | 3.91 | - | - |
| 110 | - | -    | -    | -    | 4.86 | 4.76 | 4.55 | - | - |
| 130 | - | -    | -    | -    | -    | -    | -    | - | - |

**Mass flow in lbs/h**

|     |   |     |     |     |     |     |     |   |   |
|-----|---|-----|-----|-----|-----|-----|-----|---|---|
| 45  | - | -   | -   | -   | -   | -   | -   | - | - |
| 60  | - | 168 | 230 | 295 | 367 | 487 | 680 | - | - |
| 70  | - | 148 | 214 | 285 | 361 | 488 | 690 | - | - |
| 90  | - | -   | 165 | 245 | 331 | 474 | 695 | - | - |
| 100 | - | -   | -   | 215 | 306 | 456 | 688 | - | - |
| 110 | - | -   | -   | -   | 274 | 432 | 674 | - | - |
| 130 | - | -   | -   | -   | -   | -   | -   | - | - |

**Energy Efficiency Ratio (E.E.R.)**

|     |   |      |       |       |       |       |        |   |   |
|-----|---|------|-------|-------|-------|-------|--------|---|---|
| 45  | - | -    | -     | -     | -     | -     | -      | - | - |
| 60  | - | 9.48 | 13.04 | 16.98 | 21.87 | 33.97 | 104.12 | - | - |
| 70  | - | 6.91 | 10.24 | 13.82 | 17.86 | 26.24 | 54.12  | - | - |
| 90  | - | -    | 5.24  | 8.17  | 11.34 | 16.81 | 27.83  | - | - |
| 100 | - | -    | -     | 5.76  | 8.56  | 13.29 | 21.67  | - | - |
| 110 | - | -    | -     | -     | 6.14  | 10.23 | 17.02  | - | - |
| 130 | - | -    | -     | -     | -     | -     | -      | - | - |

**Nominal performance at to = 45 °F, tc = 130 °F**

|                  |   |       |                     |   |       |
|------------------|---|-------|---------------------|---|-------|
| Cooling capacity | - | Btu/h | Current consumption | - | A     |
| Power input      | - | W     | Mass flow           | - | lbs/h |
| E.E.R.           | - |       |                     |   |       |

**Pressure switch settings**

|                           |     |        |
|---------------------------|-----|--------|
| Maximum HP switch setting | 634 | psi(g) |
| Minimum LP switch setting | 22  | psi(g) |
| LP pump down setting      | 22  | psi(g) |

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 15 °F

Tolerance according EN12900

**Sound power data**

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

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**Performance data at 40 Hz, ARI rating conditions**
**R410A**

| Cond. temp.<br>in °F (tc) | Evaporating temperature in °F (to) |     |    |   |    |    |    |    |    |
|---------------------------|------------------------------------|-----|----|---|----|----|----|----|----|
|                           | -25                                | -15 | -5 | 5 | 15 | 30 | 50 | 60 | 70 |

**Cooling capacity in Btu/h**

|     |   |        |        |        |        |        |        |        |        |
|-----|---|--------|--------|--------|--------|--------|--------|--------|--------|
| 45  | - | -      | -      | -      | -      | -      | -      | -      | -      |
| 60  | - | 17 598 | 23 999 | 31 172 | 39 226 | 53 197 | 75 923 | -      | -      |
| 70  | - | 15 120 | 21 695 | 29 014 | 37 188 | 51 285 | 74 082 | 87 439 | -      |
| 90  | - | 9 049  | 15 795 | 23 229 | 31 461 | 45 543 | 68 125 | 81 291 | 95 852 |
| 100 | - | -      | 12 306 | 19 709 | 27 881 | 41 821 | 64 116 | 77 097 | 91 446 |
| 110 | - | -      | -      | 15 842 | 23 895 | 37 604 | 59 493 | 72 230 | 86 307 |
| 130 | - | -      | -      | -      | -      | 27 901 | 48 622 | 60 691 | 74 044 |

**Power input in W**

|     |   |       |       |       |       |       |       |       |       |
|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|
| 45  | - | -     | -     | -     | -     | -     | -     | -     | -     |
| 60  | - | 1 841 | 1 845 | 1 844 | 1 799 | 1 565 | 734   | -     | -     |
| 70  | - | 2 120 | 2 097 | 2 099 | 2 087 | 1 956 | 1 368 | 808   | -     |
| 90  | - | 2 980 | 2 827 | 2 759 | 2 735 | 2 699 | 2 444 | 2 139 | 1 665 |
| 100 | - | -     | 3 365 | 3 223 | 3 157 | 3 111 | 2 947 | 2 732 | 2 378 |
| 110 | - | -     | -     | 3 819 | 3 683 | 3 590 | 3 467 | 3 317 | 3 057 |
| 130 | - | -     | -     | -     | -     | 4 873 | 4 680 | 4 584 | 4 437 |

**Current consumption in A**

|     |   |      |      |      |      |      |      |      |      |
|-----|---|------|------|------|------|------|------|------|------|
| 45  | - | -    | -    | -    | -    | -    | -    | -    | -    |
| 60  | - | 2.72 | 2.81 | 2.87 | 2.85 | 2.58 | 1.57 | -    | -    |
| 70  | - | 3.11 | 3.15 | 3.19 | 3.19 | 3.03 | 2.30 | 1.63 | -    |
| 90  | - | 4.39 | 4.22 | 4.13 | 4.08 | 3.99 | 3.64 | 3.27 | 2.72 |
| 100 | - | -    | 4.99 | 4.79 | 4.67 | 4.55 | 4.29 | 4.03 | 3.63 |
| 110 | - | -    | -    | 5.61 | 5.39 | 5.19 | 4.97 | 4.78 | 4.49 |
| 130 | - | -    | -    | -    | -    | 6.82 | 6.48 | 6.35 | 6.20 |

**Mass flow in lbs/h**

|     |   |     |     |     |     |     |     |     |       |
|-----|---|-----|-----|-----|-----|-----|-----|-----|-------|
| 45  | - | -   | -   | -   | -   | -   | -   | -   | -     |
| 60  | - | 195 | 263 | 337 | 419 | 558 | 782 | -   | -     |
| 70  | - | 175 | 248 | 327 | 413 | 559 | 793 | 930 | -     |
| 90  | - | 115 | 198 | 287 | 382 | 543 | 797 | 944 | 1 106 |
| 100 | - | -   | 162 | 256 | 357 | 525 | 789 | 941 | 1 108 |
| 110 | - | -   | -   | 217 | 323 | 498 | 772 | 929 | 1 102 |
| 130 | - | -   | -   | -   | -   | 420 | 714 | 881 | 1 064 |

**Energy Efficiency Ratio (E.E.R.)**

|     |   |      |       |       |       |       |        |        |       |
|-----|---|------|-------|-------|-------|-------|--------|--------|-------|
| 45  | - | -    | -     | -     | -     | -     | -      | -      | -     |
| 60  | - | 9.56 | 13.01 | 16.90 | 21.80 | 33.99 | 103.43 | -      | -     |
| 70  | - | 7.13 | 10.34 | 13.82 | 17.82 | 26.22 | 54.17  | 108.26 | -     |
| 90  | - | 3.04 | 5.59  | 8.42  | 11.50 | 16.87 | 27.88  | 38.00  | 57.57 |
| 100 | - | -    | 3.66  | 6.11  | 8.83  | 13.44 | 21.76  | 28.22  | 38.46 |
| 110 | - | -    | -     | 4.15  | 6.49  | 10.47 | 17.16  | 21.77  | 28.23 |
| 130 | - | -    | -     | -     | -     | 5.73  | 10.39  | 13.24  | 16.69 |

**Nominal performance at to = 45 °F, tc = 130 °F**

|                  |        |       |                     |      |       |
|------------------|--------|-------|---------------------|------|-------|
| Cooling capacity | 43 035 | Btu/h | Current consumption | 6.55 | A     |
| Power input      | 4 720  | W     | Mass flow           | 635  | lbs/h |
| E.E.R.           | 9.12   |       |                     |      |       |

**Pressure switch settings**

|                           |     |        |
|---------------------------|-----|--------|
| Maximum HP switch setting | 634 | psi(g) |
| Minimum LP switch setting | 22  | psi(g) |
| LP pump down setting      | 22  | psi(g) |

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 15 °F

Tolerance according EN12900

**Sound power data**

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

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**Performance data at 45 Hz, ARI rating conditions**
**R410A**

| Cond. temp.<br>in °F (tc) | Evaporating temperature in °F (to) |     |    |   |    |    |    |    |    |
|---------------------------|------------------------------------|-----|----|---|----|----|----|----|----|
|                           | -25                                | -15 | -5 | 5 | 15 | 30 | 50 | 60 | 70 |

**Cooling capacity in Btu/h**

|     |   |        |        |        |        |        |        |        |         |
|-----|---|--------|--------|--------|--------|--------|--------|--------|---------|
| 45  | - | -      | -      | -      | -      | -      | -      | -      | -       |
| 60  | - | 19 984 | 27 050 | 35 040 | 44 081 | 59 893 | 85 845 | -      | -       |
| 70  | - | 17 408 | 24 626 | 32 735 | 41 860 | 57 735 | 83 651 | 98 932 | -       |
| 90  | - | 11 125 | 18 446 | 26 590 | 35 682 | 51 378 | 76 818 | 91 758 | 108 349 |
| 100 | - | -      | 14 807 | 22 866 | 31 841 | 47 296 | 72 296 | 86 965 | 103 250 |
| 110 | - | -      | -      | 18 787 | 27 577 | 42 690 | 67 115 | 81 445 | 97 358  |
| 130 | - | -      | -      | -      | -      | 32 140 | 55 010 | 68 461 | 83 426  |

**Power input in W**

|     |   |       |       |       |       |       |       |       |       |
|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|
| 45  | - | -     | -     | -     | -     | -     | -     | -     | -     |
| 60  | - | 2 086 | 2 092 | 2 090 | 2 039 | 1 776 | 857   | -     | -     |
| 70  | - | 2 391 | 2 372 | 2 377 | 2 364 | 2 217 | 1 563 | 945   | -     |
| 90  | - | 3 300 | 3 152 | 3 092 | 3 077 | 3 046 | 2 767 | 2 430 | 1 905 |
| 100 | - | -     | 3 714 | 3 583 | 3 527 | 3 495 | 3 325 | 3 090 | 2 699 |
| 110 | - | -     | -     | 4 202 | 4 081 | 4 009 | 3 896 | 3 737 | 3 453 |
| 130 | - | -     | -     | -     | -     | 5 352 | 5 196 | 5 111 | 4 963 |

**Current consumption in A**

|     |   |      |      |      |      |      |      |      |      |
|-----|---|------|------|------|------|------|------|------|------|
| 45  | - | -    | -    | -    | -    | -    | -    | -    | -    |
| 60  | - | 3.01 | 3.12 | 3.20 | 3.20 | 2.96 | 1.88 | -    | -    |
| 70  | - | 3.45 | 3.47 | 3.51 | 3.53 | 3.39 | 2.64 | 1.90 | -    |
| 90  | - | 4.96 | 4.69 | 4.54 | 4.46 | 4.37 | 4.03 | 3.65 | 3.07 |
| 100 | - | -    | 5.60 | 5.29 | 5.11 | 4.96 | 4.71 | 4.45 | 4.04 |
| 110 | - | -    | -    | 6.24 | 5.92 | 5.65 | 5.41 | 5.24 | 4.96 |
| 130 | - | -    | -    | -    | -    | 7.42 | 6.99 | 6.87 | 6.74 |

**Mass flow in lbs/h**

|     |   |     |     |     |     |     |     |       |       |
|-----|---|-----|-----|-----|-----|-----|-----|-------|-------|
| 45  | - | -   | -   | -   | -   | -   | -   | -     | -     |
| 60  | - | 221 | 297 | 379 | 471 | 628 | 885 | -     | -     |
| 70  | - | 201 | 281 | 369 | 465 | 630 | 896 | 1 053 | -     |
| 90  | - | 142 | 231 | 328 | 434 | 613 | 899 | 1 066 | 1 251 |
| 100 | - | -   | 195 | 297 | 407 | 593 | 889 | 1 061 | 1 251 |
| 110 | - | -   | -   | 257 | 372 | 566 | 871 | 1 048 | 1 242 |
| 130 | - | -   | -   | -   | -   | 483 | 807 | 994   | 1 198 |

**Energy Efficiency Ratio (E.E.R.)**

|     |   |      |       |       |       |       |        |        |       |
|-----|---|------|-------|-------|-------|-------|--------|--------|-------|
| 45  | - | -    | -     | -     | -     | -     | -      | -      | -     |
| 60  | - | 9.58 | 12.93 | 16.77 | 21.62 | 33.72 | 100.20 | -      | -     |
| 70  | - | 7.28 | 10.38 | 13.77 | 17.71 | 26.04 | 53.51  | 104.72 | -     |
| 90  | - | 3.37 | 5.85  | 8.60  | 11.60 | 16.87 | 27.76  | 37.76  | 56.86 |
| 100 | - | -    | 3.99  | 6.38  | 9.03  | 13.53 | 21.74  | 28.14  | 38.25 |
| 110 | - | -    | -     | 4.47  | 6.76  | 10.65 | 17.23  | 21.80  | 28.20 |
| 130 | - | -    | -     | -     | -     | 6.01  | 10.59  | 13.40  | 16.81 |

**Nominal performance at to = 45 °F, tc = 130 °F**

|                  |        |       |                     |      |       |
|------------------|--------|-------|---------------------|------|-------|
| Cooling capacity | 48 813 | Btu/h | Current consumption | 7.07 | A     |
| Power input      | 5 229  | W     | Mass flow           | 720  | lbs/h |
| E.E.R.           | 9.33   |       |                     |      |       |

**Pressure switch settings**

|                           |     |        |
|---------------------------|-----|--------|
| Maximum HP switch setting | 634 | psi(g) |
| Minimum LP switch setting | 22  | psi(g) |
| LP pump down setting      | 22  | psi(g) |

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 15 °F

Tolerance according EN12900

**Sound power data**

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

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**Performance data at 50 Hz, ARI rating conditions**
**R410A**

| Cond. temp.<br>in °F (to) | Evaporating temperature in °F (to) |     |    |   |    |    |    |    |    |
|---------------------------|------------------------------------|-----|----|---|----|----|----|----|----|
|                           | -25                                | -15 | -5 | 5 | 15 | 30 | 50 | 60 | 70 |

**Cooling capacity in Btu/h**

|     |   |        |        |        |        |        |        |         |         |
|-----|---|--------|--------|--------|--------|--------|--------|---------|---------|
| 45  | - | -      | -      | -      | -      | -      | -      | -       | -       |
| 60  | - | 22 365 | 30 091 | 38 891 | 48 911 | 66 554 | 95 723 | -       | -       |
| 70  | - | 19 697 | 27 554 | 36 444 | 46 514 | 64 154 | 93 179 | 110 381 | -       |
| 90  | - | 13 213 | 21 109 | 29 956 | 39 902 | 57 203 | 85 489 | 102 200 | 120 818 |
| 100 | - | -      | 17 326 | 26 040 | 35 812 | 52 776 | 80 469 | 96 822  | 115 042 |
| 110 | - | -      | -      | 21 759 | 31 282 | 47 797 | 74 749 | 90 670  | 108 417 |
| 130 | - | -      | -      | -      | -      | 36 433 | 61 455 | 76 289  | 92 867  |

**Power input in W**

|     |   |       |       |       |       |       |       |       |       |
|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|
| 45  | - | -     | -     | -     | -     | -     | -     | -     | -     |
| 60  | - | 2 340 | 2 347 | 2 345 | 2 288 | 2 001 | 1 002 | -     | -     |
| 70  | - | 2 671 | 2 655 | 2 663 | 2 650 | 2 490 | 1 779 | 1 106 | -     |
| 90  | - | 3 632 | 3 488 | 3 435 | 3 428 | 3 403 | 3 105 | 2 740 | 2 170 |
| 100 | - | -     | 4 076 | 3 952 | 3 908 | 3 889 | 3 716 | 3 464 | 3 041 |
| 110 | - | -     | -     | 4 599 | 4 490 | 4 437 | 4 336 | 4 170 | 3 866 |
| 130 | - | -     | -     | -     | -     | 5 845 | 5 725 | 5 650 | 5 504 |

**Current consumption in A**

|     |   |      |      |      |      |      |      |      |      |
|-----|---|------|------|------|------|------|------|------|------|
| 45  | - | -    | -    | -    | -    | -    | -    | -    | -    |
| 60  | - | 3.32 | 3.44 | 3.55 | 3.57 | 3.34 | 2.20 | -    | -    |
| 70  | - | 3.81 | 3.81 | 3.86 | 3.88 | 3.76 | 2.99 | 2.21 | -    |
| 90  | - | 5.52 | 5.16 | 4.96 | 4.86 | 4.76 | 4.44 | 4.05 | 3.45 |
| 100 | - | -    | 6.19 | 5.80 | 5.57 | 5.39 | 5.15 | 4.90 | 4.48 |
| 110 | - | -    | -    | 6.87 | 6.46 | 6.12 | 5.88 | 5.72 | 5.46 |
| 130 | - | -    | -    | -    | -    | 8.04 | 7.54 | 7.42 | 7.31 |

**Mass flow in lbs/h**

|     |   |     |     |     |     |     |       |       |       |
|-----|---|-----|-----|-----|-----|-----|-------|-------|-------|
| 45  | - | -   | -   | -   | -   | -   | -     | -     | -     |
| 60  | - | 247 | 330 | 421 | 522 | 698 | 986   | -     | -     |
| 70  | - | 227 | 315 | 410 | 517 | 700 | 998   | 1 175 | -     |
| 90  | - | 168 | 264 | 369 | 485 | 682 | 1 000 | 1 187 | 1 395 |
| 100 | - | -   | 228 | 338 | 458 | 662 | 989   | 1 181 | 1 393 |
| 110 | - | -   | -   | 298 | 422 | 633 | 970   | 1 166 | 1 383 |
| 130 | - | -   | -   | -   | -   | 548 | 902   | 1 107 | 1 333 |

**Energy Efficiency Ratio (E.E.R.)**

|     |   |      |       |       |       |       |       |       |       |
|-----|---|------|-------|-------|-------|-------|-------|-------|-------|
| 45  | - | -    | -     | -     | -     | -     | -     | -     | -     |
| 60  | - | 9.56 | 12.82 | 16.58 | 21.37 | 33.26 | 95.58 | -     | -     |
| 70  | - | 7.38 | 10.38 | 13.69 | 17.55 | 25.76 | 52.39 | 99.76 | -     |
| 90  | - | 3.64 | 6.05  | 8.72  | 11.64 | 16.81 | 27.54 | 37.30 | 55.68 |
| 100 | - | -    | 4.25  | 6.59  | 9.16  | 13.57 | 21.65 | 27.95 | 37.83 |
| 110 | - | -    | -     | 4.73  | 6.97  | 10.77 | 17.24 | 21.74 | 28.04 |
| 130 | - | -    | -     | -     | -     | 6.23  | 10.73 | 13.50 | 16.87 |

**Nominal performance at to = 45 °F, tc = 130 °F**

|                  |        |       |                     |      |       |
|------------------|--------|-------|---------------------|------|-------|
| Cooling capacity | 54 647 | Btu/h | Current consumption | 7.62 | A     |
| Power input      | 5 750  | W     | Mass flow           | 806  | lbs/h |
| E.E.R.           | 9.50   |       |                     |      |       |

**Pressure switch settings**

|                           |     |        |
|---------------------------|-----|--------|
| Maximum HP switch setting | 634 | psi(g) |
| Minimum LP switch setting | 22  | psi(g) |
| LP pump down setting      | 22  | psi(g) |

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 15 °F

Tolerance according EN12900

**Sound power data**

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

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**Performance data at 55 Hz, ARI rating conditions**
**R410A**

| Cond. temp.<br>in °F (to) | Evaporating temperature in °F (to) |     |    |   |    |    |    |    |    |
|---------------------------|------------------------------------|-----|----|---|----|----|----|----|----|
|                           | -25                                | -15 | -5 | 5 | 15 | 30 | 50 | 60 | 70 |

**Cooling capacity in Btu/h**

|     |   |        |        |        |        |        |         |         |         |
|-----|---|--------|--------|--------|--------|--------|---------|---------|---------|
| 45  | - | -      | -      | -      | -      | -      | -       | -       | -       |
| 60  | - | 24 743 | 33 123 | 42 725 | 53 718 | 73 180 | 105 558 | -       | -       |
| 70  | - | 21 987 | 30 476 | 40 141 | 51 149 | 70 544 | 102 665 | 121 785 | -       |
| 90  | - | 15 314 | 23 781 | 33 329 | 44 123 | 63 018 | 94 139  | 112 615 | 133 260 |
| 100 | - | -      | 19 863 | 29 230 | 39 796 | 58 259 | 88 636  | 106 670 | 126 823 |
| 110 | - | -      | -      | 24 757 | 35 013 | 52 923 | 82 395  | 99 904  | 119 485 |
| 130 | - | -      | -      | -      | -      | 40 780 | 67 956  | 84 173  | 102 368 |

**Power input in W**

|     |   |       |       |       |       |       |       |       |       |
|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|
| 45  | - | -     | -     | -     | -     | -     | -     | -     | -     |
| 60  | - | 2 602 | 2 611 | 2 609 | 2 549 | 2 240 | 1 168 | -     | -     |
| 70  | - | 2 959 | 2 946 | 2 957 | 2 945 | 2 776 | 2 013 | 1 293 | -     |
| 90  | - | 3 976 | 3 834 | 3 787 | 3 787 | 3 769 | 3 457 | 3 068 | 2 459 |
| 100 | - | -     | 4 451 | 4 333 | 4 297 | 4 292 | 4 120 | 3 855 | 3 404 |
| 110 | - | -     | -     | 5 010 | 4 910 | 4 875 | 4 788 | 4 618 | 4 298 |
| 130 | - | -     | -     | -     | -     | 6 352 | 6 265 | 6 201 | 6 059 |

**Current consumption in A**

|     |   |      |      |      |      |      |      |      |      |
|-----|---|------|------|------|------|------|------|------|------|
| 45  | - | -    | -    | -    | -    | -    | -    | -    | -    |
| 60  | - | 3.67 | 3.79 | 3.91 | 3.95 | 3.72 | 2.54 | -    | -    |
| 70  | - | 4.19 | 4.18 | 4.22 | 4.25 | 4.15 | 3.36 | 2.53 | -    |
| 90  | - | 6.08 | 5.64 | 5.40 | 5.27 | 5.18 | 4.87 | 4.48 | 3.86 |
| 100 | - | -    | 6.78 | 6.31 | 6.04 | 5.83 | 5.61 | 5.37 | 4.96 |
| 110 | - | -    | -    | 7.48 | 7.00 | 6.62 | 6.38 | 6.24 | 5.98 |
| 130 | - | -    | -    | -    | -    | 8.67 | 8.11 | 8.00 | 7.91 |

**Mass flow in lbs/h**

|     |   |     |     |     |     |     |       |       |       |
|-----|---|-----|-----|-----|-----|-----|-------|-------|-------|
| 45  | - | -   | -   | -   | -   | -   | -     | -     | -     |
| 60  | - | 274 | 363 | 462 | 574 | 768 | 1 088 | -     | -     |
| 70  | - | 254 | 348 | 452 | 568 | 770 | 1 100 | 1 296 | -     |
| 90  | - | 195 | 298 | 411 | 536 | 752 | 1 102 | 1 308 | 1 538 |
| 100 | - | -   | 262 | 379 | 508 | 731 | 1 090 | 1 301 | 1 536 |
| 110 | - | -   | -   | 339 | 472 | 701 | 1 069 | 1 284 | 1 524 |
| 130 | - | -   | -   | -   | -   | 613 | 997   | 1 221 | 1 469 |

**Energy Efficiency Ratio (E.E.R.)**

|     |   |      |       |       |       |       |       |       |       |
|-----|---|------|-------|-------|-------|-------|-------|-------|-------|
| 45  | - | -    | -     | -     | -     | -     | -     | -     | -     |
| 60  | - | 9.51 | 12.69 | 16.37 | 21.08 | 32.67 | 90.34 | -     | -     |
| 70  | - | 7.43 | 10.35 | 13.57 | 17.37 | 25.41 | 50.99 | 94.20 | -     |
| 90  | - | 3.85 | 6.20  | 8.80  | 11.65 | 16.72 | 27.23 | 36.71 | 54.20 |
| 100 | - | -    | 4.46  | 6.75  | 9.26  | 13.57 | 21.51 | 27.67 | 37.25 |
| 110 | - | -    | -     | 4.94  | 7.13  | 10.86 | 17.21 | 21.64 | 27.80 |
| 130 | - | -    | -     | -     | -     | 6.42  | 10.85 | 13.57 | 16.90 |

**Nominal performance at to = 45 °F, tc = 130 °F**

|                  |        |       |                     |      |       |
|------------------|--------|-------|---------------------|------|-------|
| Cooling capacity | 60 536 | Btu/h | Current consumption | 8.20 | A     |
| Power input      | 6 282  | W     | Mass flow           | 893  | lbs/h |
| E.E.R.           | 9.64   |       |                     |      |       |

**Pressure switch settings**

|                           |     |        |
|---------------------------|-----|--------|
| Maximum HP switch setting | 634 | psi(g) |
| Minimum LP switch setting | 22  | psi(g) |
| LP pump down setting      | 22  | psi(g) |

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 15 °F

Tolerance according EN12900

**Sound power data**

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

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**Performance data at 60 Hz, ARI rating conditions**
**R410A**

| Cond. temp.<br>in °F (tc) | Evaporating temperature in °F (to) |     |    |   |    |    |    |    |    |
|---------------------------|------------------------------------|-----|----|---|----|----|----|----|----|
|                           | -25                                | -15 | -5 | 5 | 15 | 30 | 50 | 60 | 70 |

**Cooling capacity in Btu/h**

|     |   |        |        |        |        |        |         |         |         |
|-----|---|--------|--------|--------|--------|--------|---------|---------|---------|
| 45  | - | -      | -      | -      | -      | -      | -       | -       | -       |
| 60  | - | 27 117 | 36 144 | 46 542 | 58 500 | 79 771 | 115 349 | -       | -       |
| 70  | - | 24 277 | 33 395 | 43 828 | 55 765 | 76 903 | 112 110 | 133 147 | -       |
| 90  | - | 17 428 | 26 465 | 36 707 | 48 343 | 68 823 | 102 766 | 123 005 | 145 675 |
| 100 | - | -      | 22 419 | 32 436 | 43 791 | 63 746 | 96 796  | 116 507 | 138 592 |
| 110 | - | -      | -      | 27 781 | 38 768 | 58 068 | 90 052  | 109 147 | 130 562 |
| 130 | - | -      | -      | -      | -      | 45 181 | 74 512  | 92 115  | 111 927 |

**Power input in W**

|     |   |       |       |       |       |       |       |       |       |
|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|
| 45  | - | -     | -     | -     | -     | -     | -     | -     | -     |
| 60  | - | 2 872 | 2 883 | 2 883 | 2 819 | 2 494 | 1 357 | -     | -     |
| 70  | - | 3 256 | 3 245 | 3 260 | 3 250 | 3 073 | 2 268 | 1 504 | -     |
| 90  | - | 4 333 | 4 190 | 4 147 | 4 154 | 4 145 | 3 824 | 3 415 | 2 771 |
| 100 | - | -     | 4 839 | 4 724 | 4 696 | 4 703 | 4 537 | 4 261 | 3 788 |
| 110 | - | -     | -     | 5 434 | 5 341 | 5 322 | 5 251 | 5 079 | 4 748 |
| 130 | - | -     | -     | -     | -     | 6 872 | 6 816 | 6 765 | 6 629 |

**Current consumption in A**

|     |   |      |      |      |      |      |      |      |      |
|-----|---|------|------|------|------|------|------|------|------|
| 45  | - | -    | -    | -    | -    | -    | -    | -    | -    |
| 60  | - | 4.05 | 4.17 | 4.28 | 4.33 | 4.11 | 2.88 | -    | -    |
| 70  | - | 4.60 | 4.56 | 4.60 | 4.64 | 4.54 | 3.74 | 2.88 | -    |
| 90  | - | 6.63 | 6.13 | 5.85 | 5.71 | 5.62 | 5.32 | 4.94 | 4.30 |
| 100 | - | -    | 7.36 | 6.83 | 6.52 | 6.30 | 6.10 | 5.87 | 5.46 |
| 110 | - | -    | -    | 8.09 | 7.55 | 7.13 | 6.91 | 6.78 | 6.54 |
| 130 | - | -    | -    | -    | -    | 9.32 | 8.72 | 8.62 | 8.56 |

**Mass flow in lbs/h**

|     |   |     |     |     |     |     |       |       |       |
|-----|---|-----|-----|-----|-----|-----|-------|-------|-------|
| 45  | - | -   | -   | -   | -   | -   | -     | -     | -     |
| 60  | - | 300 | 396 | 504 | 625 | 837 | 1 188 | -     | -     |
| 70  | - | 280 | 381 | 493 | 620 | 839 | 1 201 | 1 417 | -     |
| 90  | - | 222 | 331 | 452 | 587 | 821 | 1 203 | 1 429 | 1 682 |
| 100 | - | -   | 295 | 420 | 559 | 799 | 1 190 | 1 421 | 1 678 |
| 110 | - | -   | -   | 380 | 523 | 769 | 1 168 | 1 403 | 1 665 |
| 130 | - | -   | -   | -   | -   | 679 | 1 093 | 1 336 | 1 606 |

**Energy Efficiency Ratio (E.E.R.)**

|     |   |      |       |       |       |       |       |       |       |
|-----|---|------|-------|-------|-------|-------|-------|-------|-------|
| 45  | - | -    | -     | -     | -     | -     | -     | -     | -     |
| 60  | - | 9.44 | 12.54 | 16.15 | 20.75 | 31.99 | 84.97 | -     | -     |
| 70  | - | 7.46 | 10.29 | 13.44 | 17.16 | 25.02 | 49.44 | 88.53 | -     |
| 90  | - | 4.02 | 6.32  | 8.85  | 11.64 | 16.60 | 26.88 | 36.02 | 52.56 |
| 100 | - | -    | 4.63  | 6.87  | 9.33  | 13.55 | 21.34 | 27.34 | 36.58 |
| 110 | - | -    | -     | 5.11  | 7.26  | 10.91 | 17.15 | 21.49 | 27.50 |
| 130 | - | -    | -     | -     | -     | 6.57  | 10.93 | 13.62 | 16.89 |

**Nominal performance at to = 45 °F, tc = 130 °F**

|                  |        |       |                     |      |       |
|------------------|--------|-------|---------------------|------|-------|
| Cooling capacity | 66 480 | Btu/h | Current consumption | 8.81 | A     |
| Power input      | 6 827  | W     | Mass flow           | 981  | lbs/h |
| E.E.R.           | 9.74   |       |                     |      |       |

**Pressure switch settings**

|                           |     |        |
|---------------------------|-----|--------|
| Maximum HP switch setting | 634 | psi(g) |
| Minimum LP switch setting | 22  | psi(g) |
| LP pump down setting      | 22  | psi(g) |

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 15 °F

Tolerance according EN12900

**Sound power data**

|                    |    |       |
|--------------------|----|-------|
| Sound power level  | 79 | dB(A) |
| With acoustic hood | 70 | dB(A) |

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**Performance data at 65 Hz, ARI rating conditions**
**R410A**

| Cond. temp.<br>in °F (to) | Evaporating temperature in °F (to) |     |    |   |    |    |    |    |    |
|---------------------------|------------------------------------|-----|----|---|----|----|----|----|----|
|                           | -25                                | -15 | -5 | 5 | 15 | 30 | 50 | 60 | 70 |

**Cooling capacity in Btu/h**

|     |   |        |        |        |        |        |         |         |         |
|-----|---|--------|--------|--------|--------|--------|---------|---------|---------|
| 45  | - | -      | -      | -      | -      | -      | -       | -       | -       |
| 60  | - | 29 487 | 39 156 | 50 343 | 63 257 | 86 328 | 125 097 | -       | -       |
| 70  | - | 26 569 | 36 309 | 47 503 | 60 362 | 83 232 | 121 513 | 144 464 | -       |
| 90  | - | 19 554 | 29 158 | 40 091 | 52 563 | 74 617 | 111 371 | 133 369 | 158 062 |
| 100 | - | -      | 24 993 | 35 657 | 47 798 | 69 237 | 104 950 | 126 334 | 150 350 |
| 110 | - | -      | -      | 30 831 | 42 548 | 63 233 | 97 722  | 118 400 | 141 647 |
| 130 | - | -      | -      | -      | -      | 49 637 | 81 125  | 100 114 | 121 546 |

**Power input in W**

|     |   |       |       |       |       |       |       |       |       |
|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|
| 45  | - | -     | -     | -     | -     | -     | -     | -     | -     |
| 60  | - | 3 151 | 3 164 | 3 165 | 3 101 | 2 761 | 1 569 | -     | -     |
| 70  | - | 3 562 | 3 553 | 3 572 | 3 564 | 3 383 | 2 541 | 1 740 | -     |
| 90  | - | 4 702 | 4 556 | 4 517 | 4 531 | 4 530 | 4 205 | 3 780 | 3 108 |
| 100 | - | -     | 5 240 | 5 126 | 5 104 | 5 124 | 4 965 | 4 683 | 4 193 |
| 110 | - | -     | -     | 5 871 | 5 783 | 5 779 | 5 725 | 5 555 | 5 216 |
| 130 | - | -     | -     | -     | -     | 7 407 | 7 380 | 7 341 | 7 213 |

**Current consumption in A**

|     |   |      |      |      |      |      |      |      |      |
|-----|---|------|------|------|------|------|------|------|------|
| 45  | - | -    | -    | -    | -    | -    | -    | -    | -    |
| 60  | - | 4.46 | 4.56 | 4.68 | 4.72 | 4.50 | 3.24 | -    | -    |
| 70  | - | 5.03 | 4.97 | 5.00 | 5.04 | 4.95 | 4.14 | 3.26 | -    |
| 90  | - | 7.18 | 6.62 | 6.31 | 6.16 | 6.07 | 5.80 | 5.42 | 4.78 |
| 100 | - | -    | 7.92 | 7.35 | 7.01 | 6.80 | 6.62 | 6.40 | 5.99 |
| 110 | - | -    | -    | 8.68 | 8.10 | 7.67 | 7.46 | 7.35 | 7.12 |
| 130 | - | -    | -    | -    | -    | 9.97 | 9.37 | 9.28 | 9.24 |

**Mass flow in lbs/h**

|     |   |     |     |     |     |     |       |       |       |
|-----|---|-----|-----|-----|-----|-----|-------|-------|-------|
| 45  | - | -   | -   | -   | -   | -   | -     | -     | -     |
| 60  | - | 326 | 429 | 545 | 676 | 906 | 1 289 | -     | -     |
| 70  | - | 307 | 414 | 535 | 671 | 908 | 1 302 | 1 538 | -     |
| 90  | - | 249 | 365 | 494 | 638 | 890 | 1 304 | 1 549 | 1 825 |
| 100 | - | -   | 329 | 462 | 610 | 868 | 1 290 | 1 541 | 1 821 |
| 110 | - | -   | -   | 422 | 574 | 837 | 1 267 | 1 522 | 1 806 |
| 130 | - | -   | -   | -   | -   | 746 | 1 190 | 1 452 | 1 744 |

**Energy Efficiency Ratio (E.E.R.)**

|     |   |      |       |       |       |       |       |       |       |
|-----|---|------|-------|-------|-------|-------|-------|-------|-------|
| 45  | - | -    | -     | -     | -     | -     | -     | -     | -     |
| 60  | - | 9.36 | 12.38 | 15.91 | 20.40 | 31.27 | 79.75 | -     | -     |
| 70  | - | 7.46 | 10.22 | 13.30 | 16.94 | 24.60 | 47.82 | 83.04 | -     |
| 90  | - | 4.16 | 6.40  | 8.88  | 11.60 | 16.47 | 26.49 | 35.28 | 50.85 |
| 100 | - | -    | 4.77  | 6.96  | 9.37  | 13.51 | 21.14 | 26.98 | 35.85 |
| 110 | - | -    | -     | 5.25  | 7.36  | 10.94 | 17.07 | 21.32 | 27.16 |
| 130 | - | -    | -     | -     | -     | 6.70  | 10.99 | 13.64 | 16.85 |

**Nominal performance at to = 45 °F, tc = 130 °F**

|                  |        |       |                     |       |       |
|------------------|--------|-------|---------------------|-------|-------|
| Cooling capacity | 72 481 | Btu/h | Current consumption | 9.45  | A     |
| Power input      | 7 382  | W     | Mass flow           | 1 069 | lbs/h |
| E.E.R.           | 9.82   |       |                     |       |       |

**Pressure switch settings**

|                           |     |        |
|---------------------------|-----|--------|
| Maximum HP switch setting | 634 | psi(g) |
| Minimum LP switch setting | 22  | psi(g) |
| LP pump down setting      | 22  | psi(g) |

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 15 °F

Tolerance according EN12900

**Sound power data**

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

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**Performance data at 70 Hz, ARI rating conditions**
**R410A**

| Cond. temp.<br>in °F (tc) | Evaporating temperature in °F (to) |     |    |   |    |    |    |    |    |
|---------------------------|------------------------------------|-----|----|---|----|----|----|----|----|
|                           | -25                                | -15 | -5 | 5 | 15 | 30 | 50 | 60 | 70 |

**Cooling capacity in Btu/h**

|     |   |        |        |        |        |        |         |         |         |
|-----|---|--------|--------|--------|--------|--------|---------|---------|---------|
| 45  | - | -      | -      | -      | -      | -      | -       | -       | -       |
| 60  | - | 31 852 | 42 157 | 54 126 | 67 991 | 92 850 | 134 800 | -       | -       |
| 70  | - | 28 862 | 39 218 | 51 167 | 64 941 | 89 532 | 130 876 | 155 737 | -       |
| 90  | - | 21 694 | 31 862 | 43 481 | 56 783 | 80 402 | 119 954 | 143 707 | 170 422 |
| 100 | - | 17 658 | 27 586 | 38 895 | 51 817 | 74 731 | 113 097 | 136 151 | 162 096 |
| 110 | - | -      | 23 006 | 33 908 | 46 352 | 68 418 | 105 404 | 127 663 | 152 741 |
| 130 | - | -      | -      | 23 014 | 34 213 | 54 145 | 87 793  | 108 170 | 131 225 |

**Power input in W**

|     |   |       |       |       |       |       |       |       |       |
|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|
| 45  | - | -     | -     | -     | -     | -     | -     | -     | -     |
| 60  | - | 3 438 | 3 452 | 3 456 | 3 392 | 3 043 | 1 802 | -     | -     |
| 70  | - | 3 877 | 3 869 | 3 891 | 3 887 | 3 705 | 2 834 | 2 000 | -     |
| 90  | - | 5 084 | 4 933 | 4 896 | 4 915 | 4 925 | 4 601 | 4 165 | 3 469 |
| 100 | - | 5 924 | 5 653 | 5 538 | 5 521 | 5 554 | 5 407 | 5 122 | 4 619 |
| 110 | - | -     | 6 547 | 6 322 | 6 236 | 6 245 | 6 210 | 6 044 | 5 702 |
| 130 | - | -     | -     | 8 460 | 8 141 | 7 956 | 7 954 | 7 930 | 7 812 |

**Current consumption in A**

|     |   |      |       |       |       |       |       |      |      |
|-----|---|------|-------|-------|-------|-------|-------|------|------|
| 45  | - | -    | -     | -     | -     | -     | -     | -    | -    |
| 60  | - | 4.90 | 4.98  | 5.08  | 5.12  | 4.90  | 3.61  | -    | -    |
| 70  | - | 5.49 | 5.41  | 5.42  | 5.46  | 5.38  | 4.56  | 3.67 | -    |
| 90  | - | 7.72 | 7.12  | 6.79  | 6.63  | 6.55  | 6.30  | 5.93 | 5.28 |
| 100 | - | 9.42 | 8.48  | 7.87  | 7.52  | 7.31  | 7.16  | 6.95 | 6.56 |
| 110 | - | -    | 10.20 | 9.26  | 8.66  | 8.22  | 8.05  | 7.95 | 7.74 |
| 130 | - | -    | -     | 13.09 | 11.81 | 10.63 | 10.04 | 9.97 | 9.95 |

**Mass flow in lbs/h**

|     |   |     |     |     |     |     |       |       |       |
|-----|---|-----|-----|-----|-----|-----|-------|-------|-------|
| 45  | - | -   | -   | -   | -   | -   | -     | -     | -     |
| 60  | - | 352 | 462 | 586 | 726 | 974 | 1 389 | -     | -     |
| 70  | - | 333 | 448 | 576 | 722 | 977 | 1 403 | 1 658 | -     |
| 90  | - | 276 | 399 | 536 | 690 | 959 | 1 404 | 1 670 | 1 967 |
| 100 | - | 237 | 363 | 504 | 662 | 937 | 1 390 | 1 660 | 1 963 |
| 110 | - | -   | 320 | 464 | 625 | 906 | 1 367 | 1 641 | 1 948 |
| 130 | - | -   | -   | 357 | 524 | 813 | 1 287 | 1 568 | 1 882 |

**Energy Efficiency Ratio (E.E.R.)**

|     |   |      |       |       |       |       |       |       |       |
|-----|---|------|-------|-------|-------|-------|-------|-------|-------|
| 45  | - | -    | -     | -     | -     | -     | -     | -     | -     |
| 60  | - | 9.27 | 12.21 | 15.66 | 20.04 | 30.52 | 74.81 | -     | -     |
| 70  | - | 7.44 | 10.14 | 13.15 | 16.71 | 24.16 | 46.17 | 77.86 | -     |
| 90  | - | 4.27 | 6.46  | 8.88  | 11.55 | 16.33 | 26.07 | 34.51 | 49.12 |
| 100 | - | 2.98 | 4.88  | 7.02  | 9.39  | 13.45 | 20.92 | 26.58 | 35.09 |
| 110 | - | -    | 3.51  | 5.36  | 7.43  | 10.96 | 16.97 | 21.12 | 26.79 |
| 130 | - | -    | -     | 2.72  | 4.20  | 6.81  | 11.04 | 13.64 | 16.80 |

**Nominal performance at to = 45 °F, tc = 130 °F**

|                  |        |       |                     |       |       |
|------------------|--------|-------|---------------------|-------|-------|
| Cooling capacity | 78 536 | Btu/h | Current consumption | 10.12 | A     |
| Power input      | 7 950  | W     | Mass flow           | 1 159 | lbs/h |
| E.E.R.           | 9.88   |       |                     |       |       |

**Pressure switch settings**

|                           |     |        |
|---------------------------|-----|--------|
| Maximum HP switch setting | 634 | psi(g) |
| Minimum LP switch setting | 22  | psi(g) |
| LP pump down setting      | 22  | psi(g) |

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 15 °F

Tolerance according EN12900

**Sound power data**

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

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**Performance data at 75 Hz, ARI rating conditions**
**R410A**

| Cond. temp.<br>in °F (tc) | Evaporating temperature in °F (to) |     |    |   |    |    |    |    |    |
|---------------------------|------------------------------------|-----|----|---|----|----|----|----|----|
|                           | -25                                | -15 | -5 | 5 | 15 | 30 | 50 | 60 | 70 |

**Cooling capacity in Btu/h**

|     |   |        |        |        |        |        |         |         |         |
|-----|---|--------|--------|--------|--------|--------|---------|---------|---------|
| 45  | - | -      | -      | -      | -      | -      | -       | -       | -       |
| 60  | - | 34 214 | 45 149 | 57 893 | 72 700 | 99 338 | 144 460 | -       | -       |
| 70  | - | 31 156 | 42 123 | 54 819 | 69 500 | 95 801 | 140 197 | 166 967 | -       |
| 90  | - | 23 847 | 34 576 | 46 877 | 61 003 | 86 176 | 128 514 | 154 019 | 182 754 |
| 100 | - | 19 738 | 30 197 | 42 149 | 55 847 | 80 230 | 121 238 | 145 958 | 173 830 |
| 110 | - | -      | 25 510 | 37 012 | 50 181 | 73 622 | 113 099 | 136 935 | 163 843 |
| 130 | - | -      | -      | 25 792 | 37 603 | 58 708 | 94 517  | 116 283 | 140 963 |

**Power input in W**

|     |   |       |       |       |       |       |       |       |       |
|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|
| 45  | - | -     | -     | -     | -     | -     | -     | -     | -     |
| 60  | - | 3 733 | 3 750 | 3 757 | 3 694 | 3 338 | 2 057 | -     | -     |
| 70  | - | 4 201 | 4 193 | 4 220 | 4 220 | 4 040 | 3 147 | 2 285 | -     |
| 90  | - | 5 478 | 5 320 | 5 283 | 5 308 | 5 329 | 5 011 | 4 567 | 3 855 |
| 100 | - | 6 363 | 6 079 | 5 961 | 5 947 | 5 993 | 5 861 | 5 576 | 5 066 |
| 110 | - | -     | 7 020 | 6 786 | 6 701 | 6 721 | 6 707 | 6 548 | 6 206 |
| 130 | - | -     | -     | 9 031 | 8 701 | 8 519 | 8 541 | 8 531 | 8 426 |

**Current consumption in A**

|     |   |       |       |       |       |       |       |       |       |
|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|
| 45  | - | -     | -     | -     | -     | -     | -     | -     | -     |
| 60  | - | 5.37  | 5.42  | 5.50  | 5.53  | 5.30  | 3.99  | -     | -     |
| 70  | - | 5.98  | 5.86  | 5.87  | 5.90  | 5.81  | 4.99  | 4.09  | -     |
| 90  | - | 8.26  | 7.63  | 7.28  | 7.12  | 7.05  | 6.83  | 6.46  | 5.82  |
| 100 | - | 10.00 | 9.02  | 8.40  | 8.05  | 7.84  | 7.72  | 7.54  | 7.15  |
| 110 | - | -     | 10.79 | 9.83  | 9.23  | 8.80  | 8.66  | 8.58  | 8.38  |
| 130 | - | -     | -     | 13.79 | 12.48 | 11.31 | 10.75 | 10.71 | 10.70 |

**Mass flow in lbs/h**

|     |   |     |     |     |     |       |       |       |       |
|-----|---|-----|-----|-----|-----|-------|-------|-------|-------|
| 45  | - | -   | -   | -   | -   | -     | -     | -     | -     |
| 60  | - | 378 | 495 | 627 | 777 | 1 042 | 1 488 | -     | -     |
| 70  | - | 360 | 481 | 617 | 772 | 1 046 | 1 503 | 1 778 | -     |
| 90  | - | 303 | 433 | 577 | 741 | 1 028 | 1 504 | 1 789 | 2 110 |
| 100 | - | 265 | 398 | 546 | 713 | 1 006 | 1 490 | 1 780 | 2 105 |
| 110 | - | -   | 355 | 506 | 677 | 975   | 1 466 | 1 760 | 2 089 |
| 130 | - | -   | -   | 400 | 576 | 882   | 1 386 | 1 686 | 2 022 |

**Energy Efficiency Ratio (E.E.R.)**

|     |   |      |       |       |       |       |       |       |       |
|-----|---|------|-------|-------|-------|-------|-------|-------|-------|
| 45  | - | -    | -     | -     | -     | -     | -     | -     | -     |
| 60  | - | 9.17 | 12.04 | 15.41 | 19.68 | 29.76 | 70.22 | -     | -     |
| 70  | - | 7.42 | 10.05 | 12.99 | 16.47 | 23.71 | 44.55 | 73.06 | -     |
| 90  | - | 4.35 | 6.50  | 8.87  | 11.49 | 16.17 | 25.65 | 33.72 | 47.41 |
| 100 | - | 3.10 | 4.97  | 7.07  | 9.39  | 13.39 | 20.69 | 26.17 | 34.31 |
| 110 | - | -    | 3.63  | 5.45  | 7.49  | 10.95 | 16.86 | 20.91 | 26.40 |
| 130 | - | -    | -     | 2.86  | 4.32  | 6.89  | 11.07 | 13.63 | 16.73 |

**Nominal performance at to = 45 °F, tc = 130 °F**

|                  |        |       |                     |       |       |
|------------------|--------|-------|---------------------|-------|-------|
| Cooling capacity | 84 648 | Btu/h | Current consumption | 10.82 | A     |
| Power input      | 8 529  | W     | Mass flow           | 1 249 | lbs/h |
| E.E.R.           | 9.92   |       |                     |       |       |

**Pressure switch settings**

|                           |     |        |
|---------------------------|-----|--------|
| Maximum HP switch setting | 634 | psi(g) |
| Minimum LP switch setting | 22  | psi(g) |
| LP pump down setting      | 22  | psi(g) |

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 15 °F

Tolerance according EN12900

**Sound power data**

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

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**Performance data at 80 Hz, ARI rating conditions**
**R410A**

| Cond. temp.<br>in °F (tc) | Evaporating temperature in °F (to) |     |    |   |    |    |    |    |    |
|---------------------------|------------------------------------|-----|----|---|----|----|----|----|----|
|                           | -25                                | -15 | -5 | 5 | 15 | 30 | 50 | 60 | 70 |

**Cooling capacity in Btu/h**

|     |   |        |        |        |        |         |         |         |         |
|-----|---|--------|--------|--------|--------|---------|---------|---------|---------|
| 45  | - | -      | -      | -      | -      | -       | -       | -       | -       |
| 60  | - | 36 572 | 48 131 | 61 642 | 77 384 | 105 790 | 154 077 | -       | -       |
| 70  | - | 33 450 | 45 024 | 58 461 | 74 041 | 102 040 | 149 476 | 178 153 | -       |
| 90  | - | 26 012 | 37 301 | 50 278 | 65 223 | 91 940  | 137 053 | 164 305 | 195 059 |
| 100 | - | 21 836 | 32 827 | 45 419 | 59 890 | 85 732  | 129 372 | 155 755 | 185 553 |
| 110 | - | -      | 28 040 | 40 141 | 54 035 | 78 846  | 120 805 | 146 216 | 174 954 |
| 130 | - | -      | -      | 28 616 | 41 043 | 63 325  | 101 298 | 124 453 | 150 760 |

**Power input in W**

|     |   |       |       |       |       |       |       |       |       |
|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|
| 45  | - | -     | -     | -     | -     | -     | -     | -     | -     |
| 60  | - | 4 037 | 4 056 | 4 067 | 4 007 | 3 648 | 2 335 | -     | -     |
| 70  | - | 4 534 | 4 526 | 4 556 | 4 562 | 4 386 | 3 479 | 2 595 | -     |
| 90  | - | 5 885 | 5 717 | 5 680 | 5 710 | 5 743 | 5 435 | 4 989 | 4 264 |
| 100 | - | 6 819 | 6 518 | 6 394 | 6 383 | 6 441 | 6 327 | 6 047 | 5 534 |
| 110 | - | -     | 7 510 | 7 263 | 7 176 | 7 206 | 7 215 | 7 065 | 6 728 |
| 130 | - | -     | -     | 9 626 | 9 281 | 9 095 | 9 139 | 9 144 | 9 054 |

**Current consumption in A**

|     |   |       |       |       |       |       |       |       |       |
|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|
| 45  | - | -     | -     | -     | -     | -     | -     | -     | -     |
| 60  | - | 5.87  | 5.88  | 5.94  | 5.95  | 5.70  | 4.39  | -     | -     |
| 70  | - | 6.49  | 6.34  | 6.33  | 6.35  | 6.26  | 5.45  | 4.55  | -     |
| 90  | - | 8.79  | 8.14  | 7.78  | 7.63  | 7.57  | 7.37  | 7.02  | 6.39  |
| 100 | - | 10.54 | 9.55  | 8.92  | 8.58  | 8.40  | 8.32  | 8.15  | 7.77  |
| 110 | - | -     | 11.34 | 10.39 | 9.79  | 9.39  | 9.29  | 9.24  | 9.06  |
| 130 | - | -     | -     | 14.43 | 13.14 | 12.00 | 11.49 | 11.47 | 11.49 |

**Mass flow in lbs/h**

|     |   |     |     |     |     |       |       |       |       |
|-----|---|-----|-----|-----|-----|-------|-------|-------|-------|
| 45  | - | -   | -   | -   | -   | -     | -     | -     | -     |
| 60  | - | 405 | 528 | 667 | 827 | 1 110 | 1 588 | -     | -     |
| 70  | - | 386 | 514 | 658 | 823 | 1 114 | 1 602 | 1 897 | -     |
| 90  | - | 331 | 467 | 619 | 792 | 1 097 | 1 604 | 1 909 | 2 252 |
| 100 | - | 293 | 432 | 588 | 765 | 1 075 | 1 590 | 1 899 | 2 247 |
| 110 | - | -   | 390 | 549 | 729 | 1 044 | 1 566 | 1 879 | 2 231 |
| 130 | - | -   | -   | 444 | 629 | 951   | 1 486 | 1 805 | 2 162 |

**Energy Efficiency Ratio (E.E.R.)**

|     |   |      |       |       |       |       |       |       |       |
|-----|---|------|-------|-------|-------|-------|-------|-------|-------|
| 45  | - | -    | -     | -     | -     | -     | -     | -     | -     |
| 60  | - | 9.06 | 11.87 | 15.16 | 19.31 | 29.00 | 65.99 | -     | -     |
| 70  | - | 7.38 | 9.95  | 12.83 | 16.23 | 23.26 | 42.96 | 68.65 | -     |
| 90  | - | 4.42 | 6.52  | 8.85  | 11.42 | 16.01 | 25.22 | 32.93 | 45.75 |
| 100 | - | 3.20 | 5.04  | 7.10  | 9.38  | 13.31 | 20.45 | 25.76 | 33.53 |
| 110 | - | -    | 3.73  | 5.53  | 7.53  | 10.94 | 16.74 | 20.69 | 26.00 |
| 130 | - | -    | -     | 2.97  | 4.42  | 6.96  | 11.08 | 13.61 | 16.65 |

**Nominal performance at to = 45 °F, tc = 130 °F**

|                  |        |       |                     |       |       |
|------------------|--------|-------|---------------------|-------|-------|
| Cooling capacity | 90 815 | Btu/h | Current consumption | 11.54 | A     |
| Power input      | 9 120  | W     | Mass flow           | 1 340 | lbs/h |
| E.E.R.           | 9.96   |       |                     |       |       |

**Pressure switch settings**

|                           |     |        |
|---------------------------|-----|--------|
| Maximum HP switch setting | 634 | psi(g) |
| Minimum LP switch setting | 22  | psi(g) |
| LP pump down setting      | 22  | psi(g) |

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 15 °F

Tolerance according EN12900

**Sound power data**

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

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# Datasheet, performance data

# Danfoss scroll compressor. VZH065CH

## Performance data at 85 Hz, ARI rating conditions

# R410A

| Cond. temp.<br>in °F (to) | Evaporating temperature in °F (to) |     |    |   |    |    |    |    |    |
|---------------------------|------------------------------------|-----|----|---|----|----|----|----|----|
|                           | -25                                | -15 | -5 | 5 | 15 | 30 | 50 | 60 | 70 |

### Cooling capacity in Btu/h

|     |   |        |        |        |        |         |         |         |         |
|-----|---|--------|--------|--------|--------|---------|---------|---------|---------|
| 45  | - | -      | -      | -      | -      | -       | -       | -       | -       |
| 60  | - | 38 926 | 51 103 | 65 375 | 82 045 | 112 208 | 163 649 | -       | -       |
| 70  | - | 35 746 | 47 920 | 62 091 | 78 563 | 108 249 | 158 715 | 189 295 | -       |
| 90  | - | 28 190 | 40 036 | 53 686 | 69 443 | 97 694  | 145 570 | 174 565 | 207 336 |
| 100 | - | 23 954 | 35 475 | 48 704 | 63 944 | 91 238  | 137 499 | 165 542 | 197 264 |
| 110 | - | -      | 30 596 | 43 297 | 57 913 | 84 090  | 128 523 | 155 507 | 186 074 |
| 130 | - | -      | -      | 31 485 | 44 534 | 67 996  | 108 134 | 132 680 | 160 616 |

### Power input in W

|     |   |       |       |        |       |       |       |       |       |
|-----|---|-------|-------|--------|-------|-------|-------|-------|-------|
| 45  | - | -     | -     | -      | -     | -     | -     | -     | -     |
| 60  | - | 4 349 | 4 370 | 4 385  | 4 330 | 3 972 | 2 634 | -     | -     |
| 70  | - | 4 876 | 4 867 | 4 901  | 4 913 | 4 745 | 3 831 | 2 930 | -     |
| 90  | - | 6 304 | 6 125 | 6 086  | 6 120 | 6 166 | 5 874 | 5 429 | 4 698 |
| 100 | - | 7 290 | 6 970 | 6 838  | 6 828 | 6 898 | 6 806 | 6 534 | 6 022 |
| 110 | - | -     | 8 016 | 7 754  | 7 663 | 7 701 | 7 735 | 7 597 | 7 269 |
| 130 | - | -     | -     | 10 245 | 9 879 | 9 686 | 9 749 | 9 770 | 9 697 |

### Current consumption in A

|     |   |       |       |       |       |       |       |       |       |
|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|
| 45  | - | -     | -     | -     | -     | -     | -     | -     | -     |
| 60  | - | 6.40  | 6.36  | 6.39  | 6.38  | 6.11  | 4.80  | -     | -     |
| 70  | - | 7.02  | 6.84  | 6.81  | 6.81  | 6.72  | 5.92  | 5.03  | -     |
| 90  | - | 9.31  | 8.66  | 8.30  | 8.15  | 8.11  | 7.94  | 7.61  | 6.99  |
| 100 | - | 11.06 | 10.07 | 9.46  | 9.13  | 8.98  | 8.93  | 8.78  | 8.42  |
| 110 | - | -     | 11.87 | 10.93 | 10.37 | 10.00 | 9.96  | 9.92  | 9.76  |
| 130 | - | -     | -     | 15.01 | 13.77 | 12.70 | 12.27 | 12.28 | 12.32 |

### Mass flow in lbs/h

|     |   |     |     |     |     |       |       |       |       |
|-----|---|-----|-----|-----|-----|-------|-------|-------|-------|
| 45  | - | -   | -   | -   | -   | -     | -     | -     | -     |
| 60  | - | 431 | 560 | 708 | 876 | 1 177 | 1 686 | -     | -     |
| 70  | - | 413 | 547 | 699 | 873 | 1 182 | 1 701 | 2 016 | -     |
| 90  | - | 359 | 501 | 661 | 843 | 1 165 | 1 704 | 2 028 | 2 394 |
| 100 | - | 322 | 467 | 631 | 816 | 1 144 | 1 690 | 2 019 | 2 389 |
| 110 | - | -   | 426 | 592 | 781 | 1 113 | 1 666 | 1 999 | 2 372 |
| 130 | - | -   | -   | 489 | 682 | 1 022 | 1 586 | 1 924 | 2 304 |

### Energy Efficiency Ratio (E.E.R.)

|     |   |      |       |       |       |       |       |       |       |
|-----|---|------|-------|-------|-------|-------|-------|-------|-------|
| 45  | - | -    | -     | -     | -     | -     | -     | -     | -     |
| 60  | - | 8.95 | 11.70 | 14.91 | 18.95 | 28.25 | 62.12 | -     | -     |
| 70  | - | 7.33 | 9.85  | 12.67 | 15.99 | 22.81 | 41.43 | 64.61 | -     |
| 90  | - | 4.47 | 6.54  | 8.82  | 11.35 | 15.84 | 24.78 | 32.15 | 44.14 |
| 100 | - | 3.29 | 5.09  | 7.12  | 9.36  | 13.23 | 20.20 | 25.34 | 32.76 |
| 110 | - | -    | 3.82  | 5.58  | 7.56  | 10.92 | 16.62 | 20.47 | 25.60 |
| 130 | - | -    | -     | 3.07  | 4.51  | 7.02  | 11.09 | 13.58 | 16.56 |

### Nominal performance at to = 45 °F, tc = 130 °F

|                  |        |       |                     |       |       |
|------------------|--------|-------|---------------------|-------|-------|
| Cooling capacity | 97 037 | Btu/h | Current consumption | 12.30 | A     |
| Power input      | 9 723  | W     | Mass flow           | 1 432 | lbs/h |
| E.E.R.           | 9.98   |       |                     |       |       |

### Pressure switch settings

|                           |     |        |
|---------------------------|-----|--------|
| Maximum HP switch setting | 634 | psi(g) |
| Minimum LP switch setting | 22  | psi(g) |
| LP pump down setting      | 22  | psi(g) |

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 15 °F

Tolerance according EN12900

### Sound power data

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

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# Datasheet, performance data

# Danfoss scroll compressor. VZH065CH

## Performance data at 90 Hz, ARI rating conditions

## R410A

| Cond. temp.<br>in °F (to) | Evaporating temperature in °F (to) |     |    |   |    |    |    |    |    |
|---------------------------|------------------------------------|-----|----|---|----|----|----|----|----|
|                           | -25                                | -15 | -5 | 5 | 15 | 30 | 50 | 60 | 70 |

### Cooling capacity in Btu/h

|     |   |        |        |        |        |         |         |         |         |
|-----|---|--------|--------|--------|--------|---------|---------|---------|---------|
| 45  | - | -      | -      | -      | -      | -       | -       | -       | -       |
| 60  | - | 41 276 | 54 065 | 69 091 | 86 681 | 118 591 | 173 178 | -       | -       |
| 70  | - | 38 043 | 50 811 | 65 709 | 83 066 | 114 428 | 167 912 | 200 393 | -       |
| 90  | - | 30 381 | 42 781 | 57 099 | 73 662 | 103 438 | 154 065 | 184 799 | 219 587 |
| 100 | - | 26 089 | 38 142 | 52 006 | 68 010 | 96 748  | 145 620 | 175 319 | 208 964 |
| 110 | - | -      | 33 178 | 46 480 | 61 816 | 89 353  | 136 253 | 164 807 | 197 201 |
| 130 | - | -      | -      | 34 400 | 48 074 | 72 721  | 115 026 | 140 964 | 170 531 |

### Power input in W

|     |   |       |       |        |        |        |        |        |        |
|-----|---|-------|-------|--------|--------|--------|--------|--------|--------|
| 45  | - | -     | -     | -      | -      | -      | -      | -      | -      |
| 60  | - | 4 669 | 4 692 | 4 713  | 4 664  | 4 310  | 2 956  | -      | -      |
| 70  | - | 5 226 | 5 216 | 5 255  | 5 274  | 5 116  | 4 202  | 3 289  | -      |
| 90  | - | 6 735 | 6 543 | 6 500  | 6 539  | 6 599  | 6 328  | 5 888  | 5 155  |
| 100 | - | 7 777 | 7 435 | 7 293  | 7 283  | 7 364  | 7 298  | 7 036  | 6 532  |
| 110 | - | -     | 8 539 | 8 259  | 8 161  | 8 205  | 8 265  | 8 143  | 7 827  |
| 130 | - | -     | -     | 10 887 | 10 496 | 10 290 | 10 370 | 10 408 | 10 354 |

### Current consumption in A

|     |   |       |       |       |       |       |       |       |       |
|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|
| 45  | - | -     | -     | -     | -     | -     | -     | -     | -     |
| 60  | - | 6.95  | 6.87  | 6.85  | 6.81  | 6.52  | 5.22  | -     | -     |
| 70  | - | 7.58  | 7.37  | 7.30  | 7.29  | 7.19  | 6.40  | 5.53  | -     |
| 90  | - | 9.83  | 9.18  | 8.83  | 8.69  | 8.67  | 8.54  | 8.22  | 7.62  |
| 100 | - | 11.54 | 10.58 | 9.99  | 9.69  | 9.57  | 9.58  | 9.44  | 9.10  |
| 110 | - | -     | 12.36 | 11.47 | 10.94 | 10.64 | 10.65 | 10.64 | 10.49 |
| 130 | - | -     | -     | 15.55 | 14.39 | 13.41 | 13.08 | 13.12 | 13.18 |

### Mass flow in lbs/h

|     |   |     |     |     |     |       |       |       |       |
|-----|---|-----|-----|-----|-----|-------|-------|-------|-------|
| 45  | - | -   | -   | -   | -   | -     | -     | -     | -     |
| 60  | - | 457 | 593 | 748 | 926 | 1 244 | 1 785 | -     | -     |
| 70  | - | 439 | 580 | 740 | 923 | 1 249 | 1 800 | 2 134 | -     |
| 90  | - | 387 | 535 | 703 | 895 | 1 234 | 1 803 | 2 147 | 2 535 |
| 100 | - | 350 | 502 | 673 | 868 | 1 213 | 1 790 | 2 138 | 2 530 |
| 110 | - | -   | 462 | 636 | 833 | 1 183 | 1 767 | 2 118 | 2 514 |
| 130 | - | -   | -   | 534 | 736 | 1 093 | 1 687 | 2 044 | 2 446 |

### Energy Efficiency Ratio (E.E.R.)

|     |   |      |       |       |       |       |       |       |       |
|-----|---|------|-------|-------|-------|-------|-------|-------|-------|
| 45  | - | -    | -     | -     | -     | -     | -     | -     | -     |
| 60  | - | 8.84 | 11.52 | 14.66 | 18.59 | 27.52 | 58.58 | -     | -     |
| 70  | - | 7.28 | 9.74  | 12.50 | 15.75 | 22.37 | 39.96 | 60.93 | -     |
| 90  | - | 4.51 | 6.54  | 8.78  | 11.27 | 15.67 | 24.35 | 31.38 | 42.60 |
| 100 | - | 3.35 | 5.13  | 7.13  | 9.34  | 13.14 | 19.95 | 24.92 | 31.99 |
| 110 | - | -    | 3.89  | 5.63  | 7.57  | 10.89 | 16.48 | 20.24 | 25.19 |
| 130 | - | -    | -     | 3.16  | 4.58  | 7.07  | 11.09 | 13.54 | 16.47 |

### Nominal performance at to = 45 °F, tc = 130 °F

|                  |         |       |                     |       |       |
|------------------|---------|-------|---------------------|-------|-------|
| Cooling capacity | 103 315 | Btu/h | Current consumption | 13.09 | A     |
| Power input      | 10 338  | W     | Mass flow           | 1 524 | lbs/h |
| E.E.R.           | 9.99    |       |                     |       |       |

### Pressure switch settings

|                           |     |        |
|---------------------------|-----|--------|
| Maximum HP switch setting | 634 | psi(g) |
| Minimum LP switch setting | 22  | psi(g) |
| LP pump down setting      | 22  | psi(g) |

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 15 °F

Tolerance according EN12900

### Sound power data

|                    |    |       |
|--------------------|----|-------|
| Sound power level  | 85 | dB(A) |
| With acoustic hood | 76 | dB(A) |

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# Datasheet, performance data

# Danfoss scroll compressor. VZH065CH

## Performance data at 95 Hz, ARI rating conditions

# R410A

| Cond. temp.<br>in °F (tc) | Evaporating temperature in °F (to) |     |    |   |    |    |    |    |    |
|---------------------------|------------------------------------|-----|----|---|----|----|----|----|----|
|                           | -25                                | -15 | -5 | 5 | 15 | 30 | 50 | 60 | 70 |

### Cooling capacity in Btu/h

|     |   |        |        |        |        |         |         |         |         |
|-----|---|--------|--------|--------|--------|---------|---------|---------|---------|
| 45  | - | -      | -      | -      | -      | -       | -       | -       | -       |
| 60  | - | 43 621 | 57 018 | 72 790 | 91 292 | 124 940 | 182 663 | -       | -       |
| 70  | - | 40 340 | 53 698 | 69 317 | 87 550 | 120 577 | 177 068 | 211 448 | -       |
| 90  | - | 32 585 | 45 537 | 60 518 | 77 882 | 109 171 | 162 537 | 195 008 | 231 809 |
| 100 | - | 28 244 | 40 827 | 55 324 | 72 088 | 102 262 | 153 735 | 185 086 | 220 652 |
| 110 | - | -      | 35 786 | 49 689 | 65 744 | 94 636  | 143 996 | 174 117 | 208 338 |
| 130 | - | -      | -      | 37 359 | 51 665 | 77 499  | 121 974 | 149 306 | 180 506 |

### Power input in W

|     |   |       |       |        |        |        |        |        |        |
|-----|---|-------|-------|--------|--------|--------|--------|--------|--------|
| 45  | - | -     | -     | -      | -      | -      | -      | -      | -      |
| 60  | - | 4 998 | 5 023 | 5 050  | 5 008  | 4 662  | 3 300  | -      | -      |
| 70  | - | 5 585 | 5 574 | 5 617  | 5 644  | 5 500  | 4 592  | 3 673  | -      |
| 90  | - | 7 179 | 6 971 | 6 924  | 6 966  | 7 042  | 6 796  | 6 366  | 5 637  |
| 100 | - | 8 280 | 7 913 | 7 759  | 7 746  | 7 840  | 7 802  | 7 555  | 7 062  |
| 110 | - | -     | 9 079 | 8 777  | 8 669  | 8 719  | 8 807  | 8 702  | 8 404  |
| 130 | - | -     | -     | 11 553 | 11 132 | 10 909 | 11 003 | 11 059 | 11 027 |

### Current consumption in A

|     |   |       |       |       |       |       |       |       |       |
|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|
| 45  | - | -     | -     | -     | -     | -     | -     | -     | -     |
| 60  | - | 7.54  | 7.40  | 7.33  | 7.26  | 6.94  | 5.65  | -     | -     |
| 70  | - | 8.17  | 7.92  | 7.82  | 7.79  | 7.67  | 6.90  | 6.06  | -     |
| 90  | - | 10.34 | 9.71  | 9.38  | 9.25  | 9.25  | 9.15  | 8.86  | 8.29  |
| 100 | - | 11.99 | 11.08 | 10.53 | 10.26 | 10.19 | 10.24 | 10.13 | 9.81  |
| 110 | - | -     | 12.81 | 11.99 | 11.53 | 11.29 | 11.37 | 11.38 | 11.26 |
| 130 | - | -     | -     | 16.03 | 14.98 | 14.14 | 13.92 | 13.99 | 14.07 |

### Mass flow in lbs/h

|     |   |     |     |     |     |       |       |       |       |
|-----|---|-----|-----|-----|-----|-------|-------|-------|-------|
| 45  | - | -   | -   | -   | -   | -     | -     | -     | -     |
| 60  | - | 483 | 625 | 788 | 975 | 1 311 | 1 882 | -     | -     |
| 70  | - | 466 | 613 | 781 | 973 | 1 316 | 1 898 | 2 252 | -     |
| 90  | - | 415 | 570 | 745 | 946 | 1 302 | 1 902 | 2 265 | 2 676 |
| 100 | - | 379 | 537 | 716 | 920 | 1 282 | 1 890 | 2 257 | 2 672 |
| 110 | - | -   | 498 | 680 | 886 | 1 253 | 1 867 | 2 238 | 2 656 |
| 130 | - | -   | -   | 580 | 791 | 1 165 | 1 789 | 2 165 | 2 589 |

### Energy Efficiency Ratio (E.E.R.)

|     |   |      |       |       |       |       |       |       |       |
|-----|---|------|-------|-------|-------|-------|-------|-------|-------|
| 45  | - | -    | -     | -     | -     | -     | -     | -     | -     |
| 60  | - | 8.73 | 11.35 | 14.41 | 18.23 | 26.80 | 55.35 | -     | -     |
| 70  | - | 7.22 | 9.63  | 12.34 | 15.51 | 21.92 | 38.56 | 57.57 | -     |
| 90  | - | 4.54 | 6.53  | 8.74  | 11.18 | 15.50 | 23.92 | 30.63 | 41.12 |
| 100 | - | 3.41 | 5.16  | 7.13  | 9.31  | 13.04 | 19.70 | 24.50 | 31.25 |
| 110 | - | -    | 3.94  | 5.66  | 7.58  | 10.85 | 16.35 | 20.01 | 24.79 |
| 130 | - | -    | -     | 3.23  | 4.64  | 7.10  | 11.09 | 13.50 | 16.37 |

### Nominal performance at to = 45 °F, tc = 130 °F

|                  |         |       |                     |       |       |
|------------------|---------|-------|---------------------|-------|-------|
| Cooling capacity | 109 648 | Btu/h | Current consumption | 13.91 | A     |
| Power input      | 10 964  | W     | Mass flow           | 1 618 | lbs/h |
| E.E.R.           | 10.00   |       |                     |       |       |

### Pressure switch settings

|                           |     |        |
|---------------------------|-----|--------|
| Maximum HP switch setting | 634 | psi(g) |
| Minimum LP switch setting | 22  | psi(g) |
| LP pump down setting      | 22  | psi(g) |

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 15 °F

Tolerance according EN12900

### Sound power data

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

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# Datasheet, performance data

# Danfoss scroll compressor. VZH065CH

## Performance data at 100 Hz, ARI rating conditions

# R410A

| Cond. temp.<br>in °F (tc) | Evaporating temperature in °F (to) |     |    |   |    |    |    |    |    |
|---------------------------|------------------------------------|-----|----|---|----|----|----|----|----|
|                           | -25                                | -15 | -5 | 5 | 15 | 30 | 50 | 60 | 70 |

### Cooling capacity in Btu/h

|     |   |        |        |        |        |         |         |         |         |
|-----|---|--------|--------|--------|--------|---------|---------|---------|---------|
| 45  | - | -      | -      | -      | -      | -       | -       | -       | -       |
| 60  | - | 45 963 | 59 960 | 76 472 | 95 880 | 131 253 | 192 105 | -       | -       |
| 70  | - | 42 639 | 56 581 | 72 913 | 92 015 | 126 695 | 186 182 | 222 459 | -       |
| 90  | - | 34 802 | 48 303 | 63 943 | 82 101 | 114 895 | 170 987 | 205 190 | 244 005 |
| 100 | - | 30 416 | 43 531 | 58 658 | 76 178 | 107 779 | 161 843 | 194 842 | 232 328 |
| 110 | - | -      | 38 420 | 52 924 | 69 696 | 99 938  | 151 750 | 183 436 | 219 483 |
| 130 | - | -      | -      | 40 363 | 55 305 | 82 332  | 128 978 | 157 704 | 190 541 |

### Power input in W

|     |   |       |       |        |        |        |        |        |        |
|-----|---|-------|-------|--------|--------|--------|--------|--------|--------|
| 45  | - | -     | -     | -      | -      | -      | -      | -      | -      |
| 60  | - | 5 335 | 5 362 | 5 396  | 5 363  | 5 028  | 3 666  | -      | -      |
| 70  | - | 5 953 | 5 939 | 5 987  | 6 023  | 5 895  | 5 002  | 4 082  | -      |
| 90  | - | 7 635 | 7 410 | 7 356  | 7 401  | 7 493  | 7 279  | 6 862  | 6 143  |
| 100 | - | 8 799 | 8 404 | 8 235  | 8 219  | 8 324  | 8 319  | 8 090  | 7 613  |
| 110 | - | -     | 9 636 | 9 308  | 9 189  | 9 242  | 9 361  | 9 276  | 8 998  |
| 130 | - | -     | -     | 12 242 | 11 787 | 11 541 | 11 648 | 11 722 | 11 713 |

### Current consumption in A

|     |   |       |       |       |       |       |       |       |       |
|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|
| 45  | - | -     | -     | -     | -     | -     | -     | -     | -     |
| 60  | - | 8.16  | 7.95  | 7.82  | 7.71  | 7.36  | 6.10  | -     | -     |
| 70  | - | 8.78  | 8.49  | 8.36  | 8.31  | 8.17  | 7.42  | 6.61  | -     |
| 90  | - | 10.85 | 10.25 | 9.94  | 9.83  | 9.86  | 9.79  | 9.53  | 8.98  |
| 100 | - | 12.41 | 11.56 | 11.07 | 10.85 | 10.83 | 10.94 | 10.85 | 10.56 |
| 110 | - | -     | 13.23 | 12.51 | 12.11 | 11.96 | 12.12 | 12.16 | 12.05 |
| 130 | - | -     | -     | 16.46 | 15.55 | 14.87 | 14.79 | 14.90 | 15.01 |

### Mass flow in lbs/h

|     |   |     |     |     |       |       |       |       |       |
|-----|---|-----|-----|-----|-------|-------|-------|-------|-------|
| 45  | - | -   | -   | -   | -     | -     | -     | -     | -     |
| 60  | - | 509 | 657 | 828 | 1 024 | 1 377 | 1 980 | -     | -     |
| 70  | - | 493 | 646 | 821 | 1 023 | 1 383 | 1 996 | 2 369 | -     |
| 90  | - | 443 | 604 | 787 | 997   | 1 370 | 2 001 | 2 384 | 2 817 |
| 100 | - | 408 | 573 | 759 | 972   | 1 351 | 1 990 | 2 376 | 2 813 |
| 110 | - | -   | 534 | 724 | 940   | 1 323 | 1 968 | 2 357 | 2 798 |
| 130 | - | -   | -   | 627 | 847   | 1 237 | 1 892 | 2 287 | 2 734 |

### Energy Efficiency Ratio (E.E.R.)

|     |   |      |       |       |       |       |       |       |       |
|-----|---|------|-------|-------|-------|-------|-------|-------|-------|
| 45  | - | -    | -     | -     | -     | -     | -     | -     | -     |
| 60  | - | 8.61 | 11.18 | 14.17 | 17.88 | 26.11 | 52.40 | -     | -     |
| 70  | - | 7.16 | 9.53  | 12.18 | 15.28 | 21.49 | 37.22 | 54.50 | -     |
| 90  | - | 4.56 | 6.52  | 8.69  | 11.09 | 15.33 | 23.49 | 29.90 | 39.72 |
| 100 | - | 3.46 | 5.18  | 7.12  | 9.27  | 12.95 | 19.45 | 24.08 | 30.52 |
| 110 | - | -    | 3.99  | 5.69  | 7.58  | 10.81 | 16.21 | 19.77 | 24.39 |
| 130 | - | -    | -     | 3.30  | 4.69  | 7.13  | 11.07 | 13.45 | 16.27 |

### Nominal performance at to = 45 °F, tc = 130 °F

|                  |         |       |                     |       |       |
|------------------|---------|-------|---------------------|-------|-------|
| Cooling capacity | 116 037 | Btu/h | Current consumption | 14.76 | A     |
| Power input      | 11 602  | W     | Mass flow           | 1 712 | lbs/h |
| E.E.R.           | 10.00   |       |                     |       |       |

### Pressure switch settings

|                           |     |        |
|---------------------------|-----|--------|
| Maximum HP switch setting | 634 | psi(g) |
| Minimum LP switch setting | 22  | psi(g) |
| LP pump down setting      | 22  | psi(g) |

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 15 °F

Tolerance according EN12900

### Sound power data

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

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**Performance data at 105 Hz, ARI rating conditions**
**R410A**

| Cond. temp.<br>in °F (to) | Evaporating temperature in °F (to) |     |    |   |    |    |    |    |    |
|---------------------------|------------------------------------|-----|----|---|----|----|----|----|----|
|                           | -25                                | -15 | -5 | 5 | 15 | 30 | 50 | 60 | 70 |

**Cooling capacity in Btu/h**

|     |   |        |        |        |         |         |         |   |   |
|-----|---|--------|--------|--------|---------|---------|---------|---|---|
| 45  | - | -      | -      | -      | -       | -       | -       | - | - |
| 60  | - | 48 301 | 62 892 | 80 137 | 100 443 | 137 532 | 201 503 | - | - |
| 70  | - | 44 939 | 59 460 | 76 498 | 96 462  | 132 784 | 195 255 | - | - |
| 90  | - | -      | 51 080 | 67 373 | 86 321  | 120 608 | 179 416 | - | - |
| 100 | - | -      | -      | 62 007 | 80 280  | 113 301 | 169 944 | - | - |
| 110 | - | -      | -      | -      | 73 672  | 105 260 | 159 517 | - | - |
| 130 | - | -      | -      | -      | -       | -       | -       | - | - |

**Power input in W**

|     |   |       |       |       |       |       |       |   |   |
|-----|---|-------|-------|-------|-------|-------|-------|---|---|
| 45  | - | -     | -     | -     | -     | -     | -     | - | - |
| 60  | - | 5 681 | 5 710 | 5 751 | 5 728 | 5 408 | 4 054 | - | - |
| 70  | - | 6 330 | 6 314 | 6 366 | 6 412 | 6 303 | 5 432 | - | - |
| 90  | - | -     | 7 859 | 7 798 | 7 845 | 7 955 | 7 776 | - | - |
| 100 | - | -     | -     | 8 721 | 8 701 | 8 817 | 8 848 | - | - |
| 110 | - | -     | -     | -     | 9 720 | 9 775 | 9 925 | - | - |
| 130 | - | -     | -     | -     | -     | -     | -     | - | - |

**Current consumption in A**

|     |   |      |       |       |       |       |       |   |   |
|-----|---|------|-------|-------|-------|-------|-------|---|---|
| 45  | - | -    | -     | -     | -     | -     | -     | - | - |
| 60  | - | 8.81 | 8.52  | 8.33  | 8.17  | 7.78  | 6.55  | - | - |
| 70  | - | 9.41 | 9.08  | 8.92  | 8.84  | 8.68  | 7.96  | - | - |
| 90  | - | -    | 10.79 | 10.51 | 10.42 | 10.48 | 10.46 | - | - |
| 100 | - | -    | -     | 11.62 | 11.45 | 11.49 | 11.66 | - | - |
| 110 | - | -    | -     | -     | 12.70 | 12.65 | 12.89 | - | - |
| 130 | - | -    | -     | -     | -     | -     | -     | - | - |

**Mass flow in lbs/h**

|     |   |     |     |     |       |       |       |   |   |
|-----|---|-----|-----|-----|-------|-------|-------|---|---|
| 45  | - | -   | -   | -   | -     | -     | -     | - | - |
| 60  | - | 535 | 690 | 868 | 1 073 | 1 443 | 2 077 | - | - |
| 70  | - | 519 | 679 | 862 | 1 072 | 1 449 | 2 093 | - | - |
| 90  | - | -   | 639 | 830 | 1 048 | 1 438 | 2 100 | - | - |
| 100 | - | -   | -   | 803 | 1 025 | 1 420 | 2 089 | - | - |
| 110 | - | -   | -   | -   | 993   | 1 393 | 2 068 | - | - |
| 130 | - | -   | -   | -   | -     | -     | -     | - | - |

**Energy Efficiency Ratio (E.E.R.)**

|     |   |      |       |       |       |       |       |   |   |
|-----|---|------|-------|-------|-------|-------|-------|---|---|
| 45  | - | -    | -     | -     | -     | -     | -     | - | - |
| 60  | - | 8.50 | 11.01 | 13.93 | 17.54 | 25.43 | 49.70 | - | - |
| 70  | - | 7.10 | 9.42  | 12.02 | 15.04 | 21.07 | 35.95 | - | - |
| 90  | - | -    | 6.50  | 8.64  | 11.00 | 15.16 | 23.07 | - | - |
| 100 | - | -    | -     | 7.11  | 9.23  | 12.85 | 19.21 | - | - |
| 110 | - | -    | -     | -     | 7.58  | 10.77 | 16.07 | - | - |
| 130 | - | -    | -     | -     | -     | -     | -     | - | - |

**Nominal performance at to = 45 °F, tc = 130 °F**

|                  |   |       |                     |   |       |
|------------------|---|-------|---------------------|---|-------|
| Cooling capacity | - | Btu/h | Current consumption | - | A     |
| Power input      | - | W     | Mass flow           | - | lbs/h |
| E.E.R.           | - |       |                     |   |       |

**Pressure switch settings**

|                           |     |        |
|---------------------------|-----|--------|
| Maximum HP switch setting | 634 | psi(g) |
| Minimum LP switch setting | 22  | psi(g) |
| LP pump down setting      | 22  | psi(g) |

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 15 °F

Tolerance according EN12900

**Sound power data**

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

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**Performance data at 110 Hz, ARI rating conditions**
**R410A**

| Cond. temp.<br>in °F (to) | Evaporating temperature in °F (to) |     |    |   |    |    |    |    |    |
|---------------------------|------------------------------------|-----|----|---|----|----|----|----|----|
|                           | -25                                | -15 | -5 | 5 | 15 | 30 | 50 | 60 | 70 |

**Cooling capacity in Btu/h**

|     |   |        |        |        |         |         |         |   |   |
|-----|---|--------|--------|--------|---------|---------|---------|---|---|
| 45  | - | -      | -      | -      | -       | -       | -       | - | - |
| 60  | - | 50 635 | 65 815 | 83 785 | 104 981 | 143 777 | 210 857 | - | - |
| 70  | - | 47 239 | 62 333 | 80 072 | 100 890 | 138 842 | 204 287 | - | - |
| 90  | - | -      | 53 867 | 70 810 | 90 540  | 126 311 | 187 822 | - | - |
| 100 | - | -      | -      | 65 373 | 84 393  | 118 826 | 178 039 | - | - |
| 110 | - | -      | -      | -      | 77 674  | 110 602 | 167 296 | - | - |
| 130 | - | -      | -      | -      | -       | -       | -       | - | - |

**Power input in W**

|     |   |       |       |       |        |        |        |   |   |
|-----|---|-------|-------|-------|--------|--------|--------|---|---|
| 45  | - | -     | -     | -     | -      | -      | -      | - | - |
| 60  | - | 6 035 | 6 066 | 6 115 | 6 103  | 5 802  | 4 465  | - | - |
| 70  | - | 6 716 | 6 696 | 6 753 | 6 810  | 6 723  | 5 881  | - | - |
| 90  | - | -     | 8 318 | 8 249 | 8 298  | 8 426  | 8 287  | - | - |
| 100 | - | -     | -     | 9 219 | 9 193  | 9 320  | 9 390  | - | - |
| 110 | - | -     | -     | -     | 10 263 | 10 318 | 10 501 | - | - |
| 130 | - | -     | -     | -     | -      | -      | -      | - | - |

**Current consumption in A**

|     |   |       |       |       |       |       |       |   |   |
|-----|---|-------|-------|-------|-------|-------|-------|---|---|
| 45  | - | -     | -     | -     | -     | -     | -     | - | - |
| 60  | - | 9.48  | 9.11  | 8.85  | 8.64  | 8.21  | 7.02  | - | - |
| 70  | - | 10.07 | 9.70  | 9.50  | 9.38  | 9.20  | 8.51  | - | - |
| 90  | - | -     | 11.34 | 11.10 | 11.04 | 11.12 | 11.14 | - | - |
| 100 | - | -     | -     | 12.17 | 12.06 | 12.18 | 12.40 | - | - |
| 110 | - | -     | -     | -     | 13.30 | 13.36 | 13.70 | - | - |
| 130 | - | -     | -     | -     | -     | -     | -     | - | - |

**Mass flow in lbs/h**

|     |   |     |     |     |       |       |       |   |   |
|-----|---|-----|-----|-----|-------|-------|-------|---|---|
| 45  | - | -   | -   | -   | -     | -     | -     | - | - |
| 60  | - | 560 | 722 | 907 | 1 122 | 1 509 | 2 173 | - | - |
| 70  | - | 546 | 712 | 902 | 1 121 | 1 516 | 2 190 | - | - |
| 90  | - | -   | 674 | 872 | 1 099 | 1 506 | 2 198 | - | - |
| 100 | - | -   | -   | 846 | 1 077 | 1 490 | 2 189 | - | - |
| 110 | - | -   | -   | -   | 1 047 | 1 464 | 2 169 | - | - |
| 130 | - | -   | -   | -   | -     | -     | -     | - | - |

**Energy Efficiency Ratio (E.E.R.)**

|     |   |      |       |       |       |       |       |   |   |
|-----|---|------|-------|-------|-------|-------|-------|---|---|
| 45  | - | -    | -     | -     | -     | -     | -     | - | - |
| 60  | - | 8.39 | 10.85 | 13.70 | 17.20 | 24.78 | 47.23 | - | - |
| 70  | - | 7.03 | 9.31  | 11.86 | 14.82 | 20.65 | 34.74 | - | - |
| 90  | - | -    | 6.48  | 8.58  | 10.91 | 14.99 | 22.66 | - | - |
| 100 | - | -    | -     | 7.09  | 9.18  | 12.75 | 18.96 | - | - |
| 110 | - | -    | -     | -     | 7.57  | 10.72 | 15.93 | - | - |
| 130 | - | -    | -     | -     | -     | -     | -     | - | - |

**Nominal performance at to = 45 °F, tc = 130 °F**

|                  |   |       |                     |   |       |
|------------------|---|-------|---------------------|---|-------|
| Cooling capacity | - | Btu/h | Current consumption | - | A     |
| Power input      | - | W     | Mass flow           | - | lbs/h |
| E.E.R.           | - |       |                     |   |       |

**Pressure switch settings**

|                           |     |        |
|---------------------------|-----|--------|
| Maximum HP switch setting | 634 | psi(g) |
| Minimum LP switch setting | 22  | psi(g) |
| LP pump down setting      | 22  | psi(g) |

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

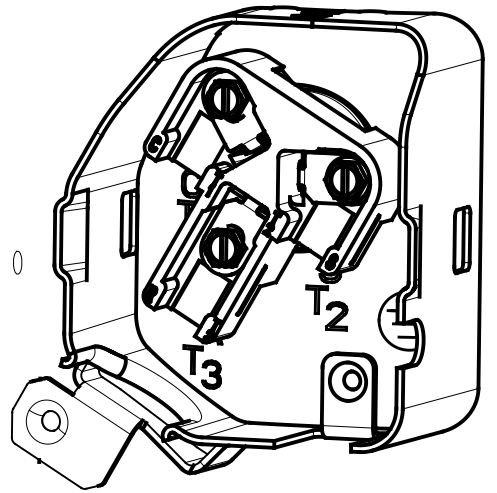
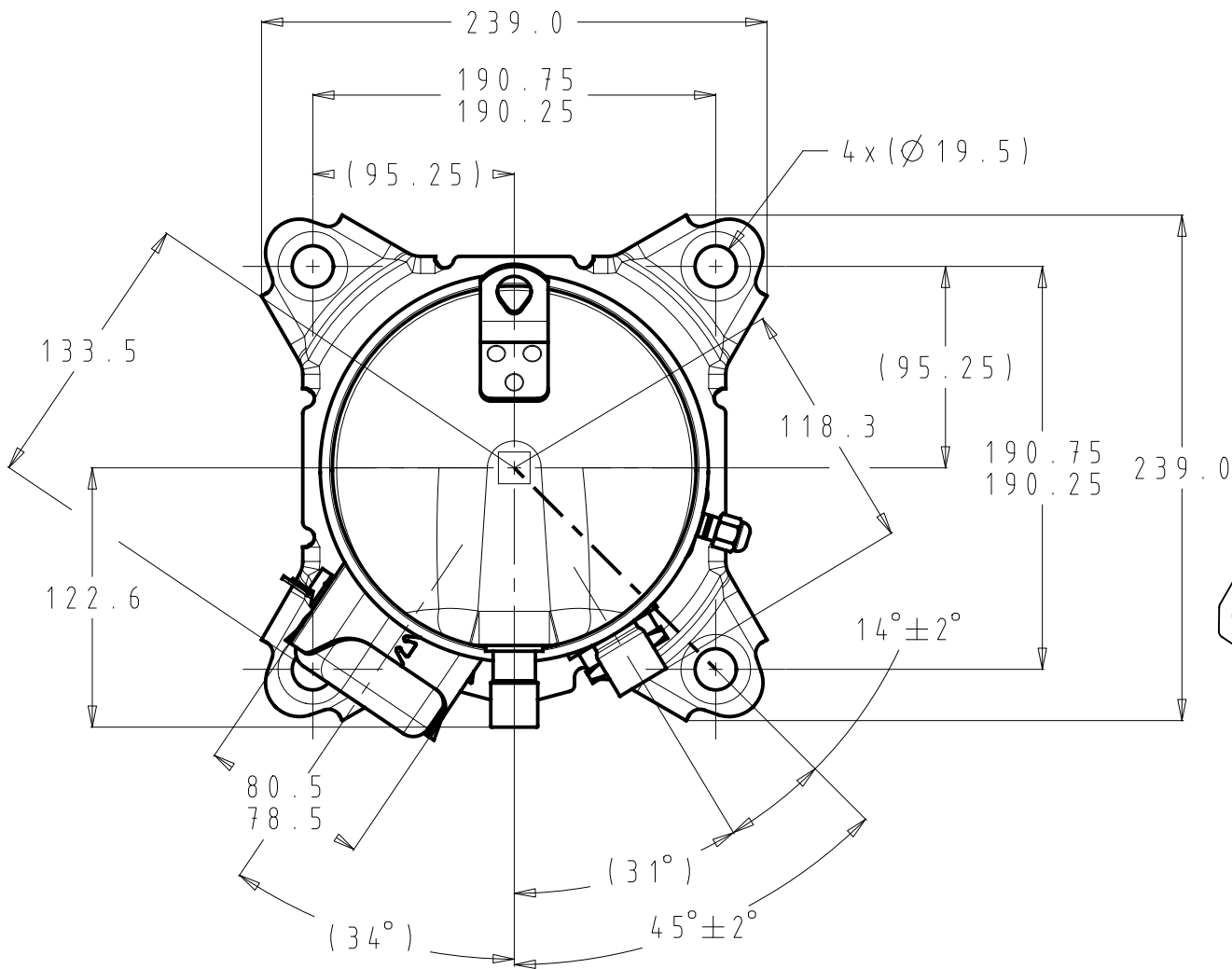
Rating conditions : Superheat = 20 °F , Subcooling = 15 °F

Tolerance according EN12900

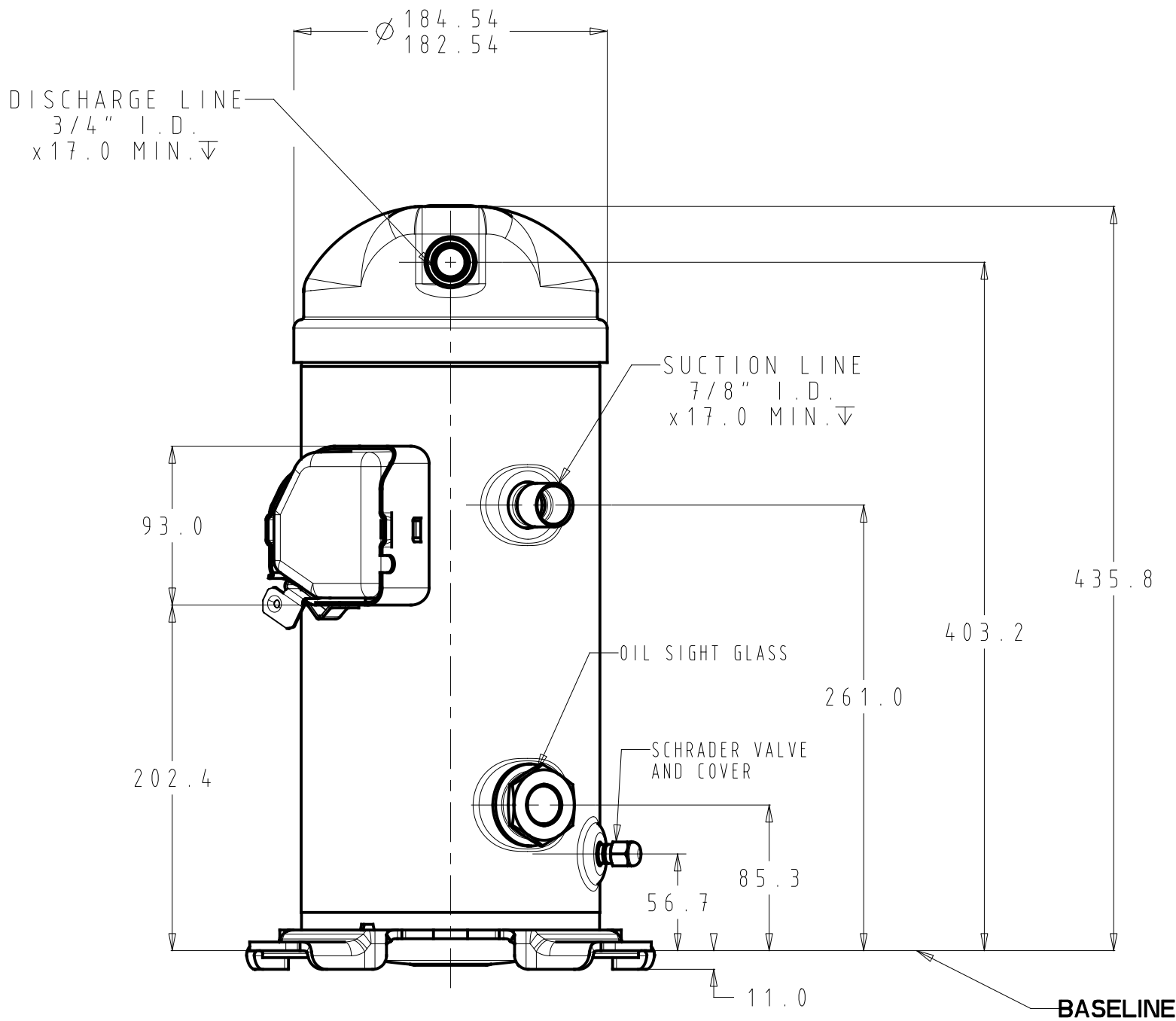
**Sound power data**

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

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SCALE 3/5



|             |
|-------------|
| Part number |
| 8590007P01A |

|   |   |                |            |                                |       |   |
|---|---|----------------|------------|--------------------------------|-------|---|
| General Tolerances Table                      | Drawing Status: Production print  |                |            | Surface Area (m <sup>2</sup> ) |       | Key characteristic<br>Critical characteristic<br>According to Danfoss standard 502Z0024 |
|   |   |                |            | Estimated Mass (Kg)            |       |   |
|   | C   | ECR-2018-10061 | 15-06-2018 | Projection                     | Scale | Size  |
|   | B   | ECR-2018-10002 | 06-06-2018 | 1/3                            | B     |   |
| .X=±3.0<br>.XX=±N/A<br>.XXX=±N/A<br>ANG°=±N/A | A   | ECR-2016-8465  | 10-10-2015 |                                |       | Material :  |
| Roughness (µm)<br>NA                          | Revision  | ECR Number     | Date       |                                |       | Designation   |
| ANSI Y14.5M-1994                              | Designer  | Ma Hongtao     |            |                                |       | VZH052/065 OUTLINE  |
|   | Approval  | Zhao Yanbo     |            | SHEET 1 of 1                   |       | C   |
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