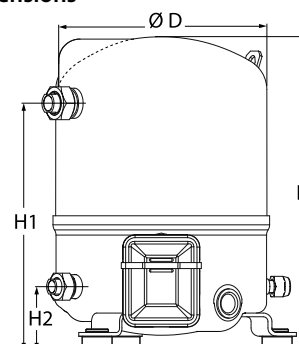


**General Characteristics**

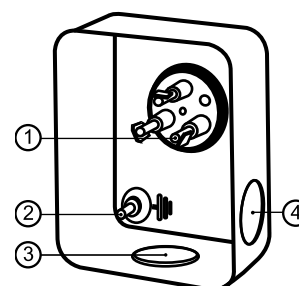
|   |   |                   |
|---|---|-------------------|
| Model number (on compressor nameplate)            |   | <b>MT40JH4EVE</b> |
| Code number for Singlepack*                       |   | MT40-4VI          |
| Code number for Industrial pack**                 |   | MT40-4VM          |
| Drawing number                                    |   | 8501025f          |
| Suction and discharge connections                 |   | Rotolock          |
| Suction connection                                |   | 1-1/4 " Rotolock  |
| Discharge connection                              |   | 1 " Rotolock      |
| Suction connection with supplied sleeve           |   | 5/8 " ODF         |
| Discharge connection with supplied sleeve         |   | 1/2 " ODF         |
| Oil sight glass                                   |   | Threaded          |
| Oil equalisation connection                       |   | 3/8" flare SAE    |
| Oil drain connection                              |   | None              |
| LP gauge port                                     |   | Schrader          |
| IPR valve   |   | None              |
| Cylinders   | 1   |                   |
| Swept volume                                      | 67.89 cm <sup>3</sup> /rev  |                   |
| Displacement @ Nominal speed                      | 11.8 m <sup>3</sup> /h @ 2900 rpm - 14.3 m <sup>3</sup> /h @ 3500 rpm |                   |
| Net weight  | 26 kg   |                   |
| Oil charge  | 0.95 litre, Mineral - 160P  |                   |
| Maximum system test pressure Low Side / High side | 25 bar(g) / 30 bar(g)   |                   |
| Maximum differential test pressure                | 30 bar  |                   |
| Maximum number of starts per hour                 | 12  |                   |
| Refrigerant charge limit                          | 2.5 kg  |                   |
| Approved refrigerants                             | R22, R417A-160PZ  |                   |

**Dimensions**


D=224 mm  
 H=356 mm  
 H1=263 mm  
 H2=68 mm  
 H3= mm

**Electrical Characteristics**

|  |                                     |
|--|-------------------------------------|
| Nominal voltage                                    | 380-400V/3/50Hz - 460V/3/60Hz       |
| Voltage range                                      | 340-440 V @ 50Hz - 414-506 V @ 60Hz |
| Winding resistance (between phases) +/- 7% at 25°C | 4.05 Ω                              |
| Maximum Continuous Current (MCC)                   | 10 A                                |
| Locked Rotor Amps (LRA)                            | 38 A                                |
| Motor protection                                   | Internal overload protector         |

**Terminal box**


IP55 (with cable gland)

- 1: Spade connectors 1/4"
- 2: Earth M4-12
- 3: Knock-out Ø 21 mm (0.83")
- 4: Hole Ø 21 mm (0.83")

**Recommended Installation torques**

|                                      |             |
|--------------------------------------|-------------|
| Oil sight glass                      | 50 Nm       |
| Power connections / Earth connection | 2 Nm / 2 Nm |
| Mounting bolts                       | 15 Nm       |

**Parts shipped with compressor**

|  |
|--|
| Mounting kit with grommets, bolts, nuts, sleeves and washers                                       |
| Suction & Discharge solder sleeves, rotolock nuts and gaskets (shipped with rotolock version only) |
| Initial oil charge   |
| Installation instructions  |

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

\*Singlepack: Compressor in cardboard box

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

**Performance data at 50 Hz, EN 12900 rating conditions**
**R22**

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

**Cooling capacity in W**

|    |       |       |       |       |       |       |        |        |        |
|----|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 30 | 3 005 | 4 020 | 5 184 | 6 508 | 8 006 | 9 689 | 11 571 | 13 665 | 15 982 |
| 35 | 2 639 | 3 640 | 4 785 | 6 086 | 7 557 | 9 210 | 11 058 | 13 112 | 15 387 |
| 40 | 2 273 | 3 256 | 4 379 | 5 655 | 7 097 | 8 716 | 10 526 | 12 540 | 14 769 |
| 45 | 1 907 | 2 870 | 3 969 | 5 217 | 6 626 | 8 210 | 9 979  | 11 948 | 14 129 |
| 50 | -     | 2 484 | 3 556 | 4 773 | 6 147 | 7 691 | 9 418  | 11 339 | 13 468 |
| 55 | -     | -     | 3 142 | 4 325 | 5 661 | 7 163 | 8 843  | 10 714 | 12 788 |
| 60 | -     | -     | -     | 3 876 | 5 170 | 6 627 | 8 257  | 10 073 | 12 088 |
| 65 | -     | -     | -     | -     | 4 675 | 6 082 | 7 659  | 9 417  | 11 369 |

**Power input in W**

|    |       |       |       |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 30 | 1 537 | 1 796 | 2 036 | 2 244 | 2 410 | 2 523 | 2 570 | 2 542 | 2 426 |
| 35 | 1 635 | 1 909 | 2 167 | 2 398 | 2 592 | 2 737 | 2 821 | 2 834 | 2 764 |
| 40 | 1 714 | 2 005 | 2 285 | 2 542 | 2 767 | 2 947 | 3 071 | 3 128 | 3 107 |
| 45 | 1 770 | 2 081 | 2 386 | 2 673 | 2 932 | 3 150 | 3 317 | 3 422 | 3 452 |
| 50 | -     | 2 136 | 2 469 | 2 789 | 3 084 | 3 344 | 3 557 | 3 711 | 3 797 |
| 55 | -     | -     | 2 530 | 2 886 | 3 221 | 3 525 | 3 787 | 3 995 | 4 138 |
| 60 | -     | -     | -     | 2 961 | 3 339 | 3 691 | 4 005 | 4 270 | 4 474 |
| 65 | -     | -     | -     | -     | 3 437 | 3 840 | 4 209 | 4 533 | 4 801 |

**Current consumption in A**

|    |      |      |      |      |      |      |      |      |      |
|----|------|------|------|------|------|------|------|------|------|
| 30 | 3.66 | 3.89 | 4.13 | 4.36 | 4.55 | 4.68 | 4.74 | 4.70 | 4.54 |
| 35 | 3.76 | 4.01 | 4.27 | 4.53 | 4.76 | 4.94 | 5.05 | 5.07 | 4.97 |
| 40 | 3.83 | 4.11 | 4.40 | 4.69 | 4.97 | 5.20 | 5.37 | 5.45 | 5.43 |
| 45 | 3.89 | 4.19 | 4.52 | 4.86 | 5.18 | 5.47 | 5.70 | 5.85 | 5.91 |
| 50 | -    | 4.25 | 4.62 | 5.00 | 5.38 | 5.73 | 6.04 | 6.27 | 6.40 |
| 55 | -    | -    | 4.69 | 5.13 | 5.57 | 5.99 | 6.37 | 6.68 | 6.90 |
| 60 | -    | -    | -    | 5.24 | 5.74 | 6.24 | 6.69 | 7.09 | 7.41 |
| 65 | -    | -    | -    | -    | 5.89 | 6.46 | 7.00 | 7.49 | 7.91 |

**Mass flow in kg/h**

|    |    |    |     |     |     |     |     |     |     |
|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| 30 | 65 | 86 | 110 | 136 | 166 | 198 | 234 | 274 | 317 |
| 35 | 60 | 81 | 106 | 133 | 163 | 196 | 232 | 272 | 316 |
| 40 | 54 | 76 | 101 | 128 | 159 | 193 | 230 | 271 | 315 |
| 45 | 47 | 70 | 95  | 124 | 155 | 189 | 227 | 269 | 314 |
| 50 | -  | 64 | 90  | 118 | 150 | 185 | 224 | 266 | 313 |
| 55 | -  | -  | 83  | 113 | 145 | 181 | 221 | 264 | 311 |
| 60 | -  | -  | -   | 107 | 140 | 177 | 217 | 261 | 309 |
| 65 | -  | -  | -   | -   | 134 | 172 | 213 | 258 | 307 |

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

|    |      |      |      |      |      |      |      |      |      |
|----|------|------|------|------|------|------|------|------|------|
| 30 | 1.95 | 2.24 | 2.55 | 2.90 | 3.32 | 3.84 | 4.50 | 5.38 | 6.59 |
| 35 | 1.61 | 1.91 | 2.21 | 2.54 | 2.92 | 3.37 | 3.92 | 4.63 | 5.57 |
| 40 | 1.33 | 1.62 | 1.92 | 2.22 | 2.56 | 2.96 | 3.43 | 4.01 | 4.75 |
| 45 | 1.08 | 1.38 | 1.66 | 1.95 | 2.26 | 2.61 | 3.01 | 3.49 | 4.09 |
| 50 | -    | 1.16 | 1.44 | 1.71 | 1.99 | 2.30 | 2.65 | 3.06 | 3.55 |
| 55 | -    | -    | 1.24 | 1.50 | 1.76 | 2.03 | 2.34 | 2.68 | 3.09 |
| 60 | -    | -    | -    | 1.31 | 1.55 | 1.80 | 2.06 | 2.36 | 2.70 |
| 65 | -    | -    | -    | -    | 1.36 | 1.58 | 1.82 | 2.08 | 2.37 |

**Nominal performance at to = 5 °C, tc = 50 °C**

|                     |       |      |
|---------------------|-------|------|
| Cooling capacity    | 9 418 | W    |
| Power input         | 3 557 | W    |
| Current consumption | 6.04  | A    |
| Mass flow           | 224   | kg/h |
| C.O.P.              | 2.65  |      |

**Pressure switch settings**

|                           |      |        |
|---------------------------|------|--------|
| Maximum HP switch setting | 27.9 | bar(g) |
| Minimum LP switch setting | 0.7  | bar(g) |
| LP pump down setting      | 0.9  | bar(g) |

**Sound power data**

|                     |    |       |
|---------------------|----|-------|
| Sound power level   | 67 | dB(A) |
| With accoustic hood | 62 | dB(A) |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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**Performance data at 50 Hz, ARI rating conditions**
**R22**

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

**Cooling capacity in W**

|    |       |       |       |       |       |        |        |        |        |
|----|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 30 | 3 192 | 4 267 | 5 497 | 6 896 | 8 476 | 10 252 | 12 235 | 14 439 | 16 877 |
| 35 | 2 813 | 3 876 | 5 091 | 6 470 | 8 028 | 9 776  | 11 729 | 13 898 | 16 298 |
| 40 | 2 432 | 3 481 | 4 677 | 6 035 | 7 567 | 9 286  | 11 205 | 13 338 | 15 697 |
| 45 | 2 050 | 3 082 | 4 258 | 5 591 | 7 095 | 8 782  | 10 666 | 12 759 | 15 076 |
| 50 | -     | 2 681 | 3 834 | 5 141 | 6 614 | 8 267  | 10 113 | 12 164 | 14 435 |
| 55 | -     | -     | 3 408 | 4 686 | 6 126 | 7 742  | 9 547  | 11 555 | 13 778 |
| 60 | -     | -     | -     | 4 227 | 5 632 | 7 209  | 8 971  | 10 932 | 13 105 |
| 65 | -     | -     | -     | -     | 5 135 | 6 670  | 8 387  | 10 298 | 12 418 |

**Power input in W**

|    |       |       |       |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 30 | 1 537 | 1 796 | 2 036 | 2 244 | 2 410 | 2 523 | 2 570 | 2 542 | 2 426 |
| 35 | 1 635 | 1 909 | 2 167 | 2 398 | 2 592 | 2 737 | 2 821 | 2 834 | 2 764 |
| 40 | 1 714 | 2 005 | 2 285 | 2 542 | 2 767 | 2 947 | 3 071 | 3 128 | 3 107 |
| 45 | 1 770 | 2 081 | 2 386 | 2 673 | 2 932 | 3 150 | 3 317 | 3 422 | 3 452 |
| 50 | -     | 2 136 | 2 469 | 2 789 | 3 084 | 3 344 | 3 557 | 3 711 | 3 797 |
| 55 | -     | -     | 2 530 | 2 886 | 3 221 | 3 525 | 3 787 | 3 995 | 4 138 |
| 60 | -     | -     | -     | 2 961 | 3 339 | 3 691 | 4 005 | 4 270 | 4 474 |
| 65 | -     | -     | -     | -     | 3 437 | 3 840 | 4 209 | 4 533 | 4 801 |

**Current consumption in A**

|    |      |      |      |      |      |      |      |      |      |
|----|------|------|------|------|------|------|------|------|------|
| 30 | 3.66 | 3.89 | 4.13 | 4.36 | 4.55 | 4.68 | 4.74 | 4.70 | 4.54 |
| 35 | 3.76 | 4.01 | 4.27 | 4.53 | 4.76 | 4.94 | 5.05 | 5.07 | 4.97 |
| 40 | 3.83 | 4.11 | 4.40 | 4.69 | 4.97 | 5.20 | 5.37 | 5.45 | 5.43 |
| 45 | 3.89 | 4.19 | 4.52 | 4.86 | 5.18 | 5.47 | 5.70 | 5.85 | 5.91 |
| 50 | -    | 4.25 | 4.62 | 5.00 | 5.38 | 5.73 | 6.04 | 6.27 | 6.40 |
| 55 | -    | -    | 4.69 | 5.13 | 5.57 | 5.99 | 6.37 | 6.68 | 6.90 |
| 60 | -    | -    | -    | 5.24 | 5.74 | 6.24 | 6.69 | 7.09 | 7.41 |
| 65 | -    | -    | -    | -    | 5.89 | 6.46 | 7.00 | 7.49 | 7.91 |

**Mass flow in kg/h**

|    |    |    |     |     |     |     |     |     |     |
|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| 30 | 65 | 86 | 109 | 136 | 165 | 197 | 233 | 272 | 315 |
| 35 | 59 | 81 | 105 | 132 | 162 | 195 | 231 | 271 | 314 |
| 40 | 54 | 76 | 100 | 128 | 158 | 192 | 229 | 269 | 314 |
| 45 | 47 | 70 | 95  | 123 | 154 | 188 | 226 | 267 | 312 |
| 50 | -  | 63 | 89  | 118 | 149 | 184 | 223 | 265 | 311 |
| 55 | -  | -  | 83  | 112 | 145 | 180 | 220 | 263 | 309 |
| 60 | -  | -  | -   | 106 | 139 | 176 | 216 | 260 | 308 |
| 65 | -  | -  | -   | -   | 134 | 171 | 212 | 257 | 305 |

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

|    |      |      |      |      |      |      |      |      |      |
|----|------|------|------|------|------|------|------|------|------|
| 30 | 2.08 | 2.37 | 2.70 | 3.07 | 3.52 | 4.06 | 4.76 | 5.68 | 6.96 |
| 35 | 1.72 | 2.03 | 2.35 | 2.70 | 3.10 | 3.57 | 4.16 | 4.90 | 5.90 |
| 40 | 1.42 | 1.74 | 2.05 | 2.37 | 2.73 | 3.15 | 3.65 | 4.26 | 5.05 |
| 45 | 1.16 | 1.48 | 1.78 | 2.09 | 2.42 | 2.79 | 3.22 | 3.73 | 4.37 |
| 50 | -    | 1.26 | 1.55 | 1.84 | 2.14 | 2.47 | 2.84 | 3.28 | 3.80 |
| 55 | -    | -    | 1.35 | 1.62 | 1.90 | 2.20 | 2.52 | 2.89 | 3.33 |
| 60 | -    | -    | -    | 1.43 | 1.69 | 1.95 | 2.24 | 2.56 | 2.93 |
| 65 | -    | -    | -    | -    | 1.49 | 1.74 | 1.99 | 2.27 | 2.59 |

**Nominal performance at to = 7.2 °C, tc = 54.4 °C**

|                     |        |      |
|---------------------|--------|------|
| Cooling capacity    | 10 475 | W    |
| Power input         | 3 856  | W    |
| Current consumption | 6.47   | A    |
| Mass flow           | 238    | kg/h |
| C.O.P.              | 2.72   |      |

**Pressure switch settings**

|                           |      |        |
|---------------------------|------|--------|
| Maximum HP switch setting | 27.9 | bar(g) |
| Minimum LP switch setting | 0.7  | bar(g) |
| LP pump down setting      | 0.9  | bar(g) |

**Sound power data**

|                     |    |       |
|---------------------|----|-------|
| Sound power level   | 67 | dB(A) |
| With accoustic hood | 62 | dB(A) |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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

Tolerance according EN12900

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