

Reciprocating Compressors

Datasheets

Maneurop[®] Reciprocating compressors MT / MTZ / MPZ / NTZ



FRCC.UD.120808.210937 www.danfoss.com/odsg

antos

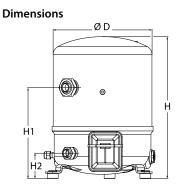
Datasheet, technical data

Maneurop reciprocating compressor, MTZ072-3

General Characteristics

| Model number (on compressor nameplate) | | MTZ72HN3BVE | | |
|---|---------------|-------------------|--|--|
| Code number for Singlepack* | | MTZ72-3VI | | |
| Code number for Industrial pack** | | MTZ72-3VM | | |
| Drawing number | | 8502012g | | |
| Suction and discharge connections | | Rotolock | | |
| Suction connection | | 1-3/4 " Rotolock | | |
| Discharge connection | | 1-1/4 " Rotolock | | |
| Suction connection with supplied sleeve | | 7/8 " ODF | | |
| Discharge connection with supplied sleeve | | 3/4 " ODF | | |
| Oil sight glass | | Threaded | | |
| Oil equalization connection | | 3/8" flare SAE | | |
| Oil drain connection | | None | | |
| LP gauge port | | Schrader | | |
| IPR valve | | 435 psi / 115 psi | | |
| Cylinders | 2 | | | |
| Swept volume | 7.38 in | 3/rev | | |
| Displacement @ Nominal speed | 897 cfh @ 3 | 3500 rpm | | |
| Net weight | 88 II | bs | | |
| Oil charge | 61 oz, POE | - 160PZ | | |
| Maximum system test pressure Low Side / High side | 363 psi / | 435 psi | | |
| Maximum differential test pressure | 435 | psi | | |
| Maximum number of starts per hour | 12 | | | |
| Refrigerant charge limit | 11 lbs | | | |
| Approved refrigerants | R404A, R507A, | R134a, R407C | | |

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D=11.3 inch, H=16.3 inch, H1=10.4 inch, H2=2.9 inch

Terminal box

Electrical Characteristics

| Nominal voltage | 200-230V/3/60Hz | | | |
|--|-----------------------------|--|--|--|
| Voltage range | 180-253 V | | | |
| Winding resistance (between phases) +/- 7% at 77°F | 0.55 Ω | | | |
| Maximum Continuous Current (MCC) | 30 A | | | |
| Locked Rotor Amps (LRA) | 135 A | | | |
| Motor protection | Internal overload protector | | | |

Recommended Installation torques

| Oil sight glass | 37 ft.lbs |
|--------------------------------------|-------------------|
| Power connections / Earth connection | ft.lbs / 1 ft.lbs |
| Mounting bolts | 11 ft.lbs |

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), -

*Singlepack: Compressor in cardboard box

**Industrial pack: 6 Unboxed compressors on pallet (order per multiples of 6)

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")



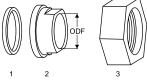


Datasheet, accessories and spare parts

Maneurop reciprocating compressor, MTZ072-3

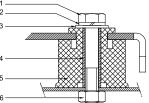
| Rotolock accessories, suction side | Code no. |
|---|----------|
| Solder sleeve, P07 (1-3/4" Rotolock, 7/8" ODF) | 8153013 |
| Angle adapter, C07 (1-3/4" Rotolock, 7/8" ODF) | 8168008 |
| Rotolock valve, V07 (1-3/4" Rotolock, 7/8" ODF) | 8168032 |
| Gasket, 1-3/4" | 8156132 |
| Rotolock accessories, discharge side | Code no. |
| Solder sleeve, P04 (1-1/4" Rotolock, 3/4" ODF) | 8153008 |
| Angle adapter, C04 (1-1/4" Rotolock, 3/4" ODF) | 8168006 |
| Rotolock valve, V04 (1-1/4" Rotolock, 3/4" ODF) | 8168029 |
| Gasket, 1-1/4" | 8156131 |
| Rotolock accessories, sets | Code no. |
| Angle adapter set, C07 (1-3/4"~7/8"), C04 (1-1/4"~3/4") | 7703013 |
| Valve set, V07 (1-3/4"~7/8"), V04 (1-1/4"~3/4") | 7703006 |
| Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white | 8156009 |
| | |
| Oil / lubricants | Code no. |
| POE lubricant, 160PZ, 1 liter can | 7754019 |
| POE lubricant, 160PZ, 2 liter can | 7754020 |
| Crankcase heaters | Code no. |
| PTC heater 27W | 120Z0459 |
| Belt type crankcase heater, 65 W, 110 V, CE mark, UL | 7773109 |
| Belt type crankcase heater, 65 W, 230 V, CE mark, UL | 7773107 |
| Miscellaneous accessories | Code no. |
| Acoustic hood for 2 cylinder compressor | 7755002 |
| Oil equalisation nut | 8153127 |
| On equalisation nut | 6155127 |
| Spare parts | Code no. |
| Mounting kit for 1 and 2 cylinder compressor, including 3 | 8156001 |
| grommets, 3 bolts | |
| Oil sight glass with gaskets (black & white) | 8156019 |
| Gasket for oil sight glass (black chloroprene) | 8156145 |
| Service kit for terminal box 80 x 96 mm, including 1 cover, 1 clamp | 8156134 |

iaskets, sleeves and nuts



1: Gasket 2: Solder sleeve 3: Rotolock nut

Nounting kit



1: Bolt (3x) 2: Lock washer (3x) 3: Flat washer (3x) 4: Sleeve (3x) 5: Grommet (3x) 6: Nut (3x)



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R407C

Datasheet, performance data

Maneurop reciprocating compressor. MTZ072-3

Performance data at 60 Hz, ARI rating conditions

| Cond. temp. | Evaporating temperature in °F (to) | | | | | | | | | |
|-------------|------------------------------------|----|----|----|----|----|----|----|----|--|
| in °F (tc) | 10 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | |

Cooling capacity in Btu/h

| eeening capae | | | | | | | | | |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 100 | 35 204 | 47 026 | 53 792 | 61 170 | 69 192 | 77 889 | 87 294 | 97 438 | 108 353 |
| 110 | 31 962 | 43 158 | 49 558 | 56 536 | 64 124 | 72 352 | 81 253 | 90 859 | 101 201 |
| 120 | - | 39 094 | 45 082 | 51 613 | 58 718 | 66 430 | 74 780 | 83 800 | 93 522 |
| 130 | - | 34 871 | 40 399 | 46 435 | 53 011 | 60 158 | 67 910 | 76 297 | 85 350 |
| 140 | - | - | 35 543 | 41 036 | 47 035 | 53 572 | 60 677 | 68 383 | 76 721 |
| 150 | - | - | - | - | 40 827 | 46 704 | 53 116 | 60 094 | 67 670 |

Power input in W

| 100 | 4 262 | 4 820 | 5 079 | 5 320 | 5 542 | 5 740 | 5 913 | 6 057 | 6 169 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110 | 4 423 | 5 045 | 5 341 | 5 623 | 5 889 | 6 136 | 6 360 | 6 559 | 6 730 |
| 120 | - | 5 235 | 5 573 | 5 902 | 6 217 | 6 516 | 6 797 | 7 056 | 7 291 |
| 130 | - | 5 382 | 5 768 | 6 147 | 6 517 | 6 874 | 7 216 | 7 540 | 7 843 |
| 140 | - | - | 5 916 | 6 351 | 6 780 | 7 200 | 7 608 | 8 002 | 8 378 |
| 150 | - | - | - | - | 6 998 | 7 486 | 7 965 | 8 434 | 8 888 |

Current consumption in A

| 100 | 16.42 | 18.00 | 18.76 | 19.49 | 20.18 | 20.84 | 21.44 | 21.99 | 22.48 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110 | 16.85 | 18.63 | 19.50 | 20.35 | 21.18 | 21.98 | 22.73 | 23.45 | 24.12 |
| 120 | - | 19.18 | 20.18 | 21.17 | 22.14 | 23.09 | 24.02 | 24.92 | 25.77 |
| 130 | - | 19.63 | 20.77 | 21.91 | 23.05 | 24.18 | 25.29 | 26.37 | 27.43 |
| 140 | - | - | 21.27 | 22.58 | 23.89 | 25.21 | 26.52 | 27.81 | 29.09 |
| 150 | - | - | - | - | 24.66 | 26.18 | 27.70 | 29.22 | 30.73 |

Mass flow in lbs/h

| 100 | 458 | 600 | 679 | 765 | 858 | 957 | 1 064 | 1 178 | 1 301 |
|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|
| 110 | 438 | 580 | 660 | 745 | 838 | 937 | 1 043 | 1 156 | 1 278 |
| 120 | - | 557 | 636 | 721 | 812 | 910 | 1 015 | 1 127 | 1 247 |
| 130 | - | 531 | 608 | 691 | 781 | 878 | 981 | 1 091 | 1 209 |
| 140 | - | - | 576 | 657 | 745 | 839 | 940 | 1 048 | 1 163 |
| 150 | - | - | - | - | 702 | 794 | 892 | 997 | 1 109 |

Energy Efficiency Ratio (E.E.R.)

| 100 | 8.26 | 9.76 | 10.59 | 11.50 | 12.49 | 13.57 | 14.76 | 16.09 | 17.56 |
|-----|------|------|-------|-------|-------|-------|-------|-------|-------|
| 110 | 7.23 | 8.56 | 9.28 | 10.05 | 10.89 | 11.79 | 12.78 | 13.85 | 15.04 |
| 120 | - | 7.47 | 8.09 | 8.75 | 9.44 | 10.19 | 11.00 | 11.88 | 12.83 |
| 130 | - | 6.48 | 7.00 | 7.55 | 8.13 | 8.75 | 9.41 | 10.12 | 10.88 |
| 140 | - | - | 6.01 | 6.46 | 6.94 | 7.44 | 7.98 | 8.55 | 9.16 |
| 150 | - | - | - | - | 5.83 | 6.24 | 6.67 | 7.13 | 7.61 |

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

| Cooling capa | city 67 910 | Btu/h | Current consumption | on 25.29 | А |
|--------------|-------------|-------|---------------------|----------|-------|
| Power input | 7 216 | W | Mass flow | 981 | lbs/h |
| E.E.R. | 9.41 | | | | |

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

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

All performance data +/- 5%

Pressure switch settings

| Maximum HP switch setting | 426 | psi(g) | |
|---------------------------|-----|--------|--|
| Minimum LP switch setting | 3 | psi(g) | |
| LP pump down setting | 19 | psi(g) | |

Sound power data

| | | | _ |
|---------------------|---|-------|---|
| Sound power level | 0 | dB(A) | |
| With accoustic hood | 0 | dB(A) | |



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R134a

Datasheet, performance data

Maneurop reciprocating compressor. MTZ072-3

Performance data at 60 Hz, ARI rating conditions

| | (10) | np. Evaporating temperature in °F (to) | | | | | | | | | |
|---------------------------|------|--|----|----|--|--|--|--|--|--|--|
| in °F (tc) 10 20 30 40 45 | 50 | 55 | 60 | 65 | | | | | | | |

Cooling capacity in Btu/h

| 100 | 24 930 | 33 654 | 43 906 | 55 843 | 62 491 | 69 617 | 77 243 | 85 385 | 94 065 |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 110 | 22 566 | 30 953 | 40 795 | 52 249 | 58 628 | 65 468 | 72 788 | 80 607 | 88 944 |
| 120 | 20 077 | 28 080 | 37 465 | 48 388 | 54 475 | 61 004 | 67 995 | 75 466 | 83 438 |
| 130 | 17 442 | 25 013 | 33 894 | 44 239 | 50 010 | 56 204 | 62 842 | 69 943 | 77 526 |
| 140 | - | 21 732 | 30 061 | 39 781 | 45 212 | 51 048 | 57 310 | 64 016 | 71 186 |
| 150 | - | - | - | 34 993 | 40 060 | 45 515 | 51 376 | 57 664 | 64 397 |
| 160 | - | - | - | - | - | 39 583 | 45 020 | 50 866 | 57 139 |

Power input in W

| 100 | 3 095 | 3 523 | 3 941 | 4 336 | 4 522 | 4 697 | 4 861 | 5 012 | 5 148 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110 | 3 176 | 3 640 | 4 100 | 4 546 | 4 759 | 4 965 | 5 160 | 5 345 | 5 517 |
| 120 | 3 226 | 3 729 | 4 238 | 4 739 | 4 983 | 5 221 | 5 451 | 5 672 | 5 882 |
| 130 | 3 241 | 3 790 | 4 351 | 4 913 | 5 190 | 5 463 | 5 730 | 5 989 | 6 240 |
| 140 | - | 3 820 | 4 438 | 5 065 | 5 378 | 5 688 | 5 995 | 6 295 | 6 589 |
| 150 | - | - | - | 5 193 | 5 544 | 5 894 | 6 242 | 6 587 | 6 927 |
| 160 | - | - | - | - | - | 6 078 | 6 471 | 6 862 | 7 250 |

Current consumption in A

| 100 | 12.21 | 13.25 | 14.31 | 15.39 | 15.93 | 16.46 | 16.99 | 17.52 | 18.03 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110 | 12.40 | 13.54 | 14.72 | 15.95 | 16.56 | 17.19 | 17.81 | 18.43 | 19.05 |
| 120 | 12.53 | 13.78 | 15.11 | 16.49 | 17.19 | 17.91 | 18.63 | 19.35 | 20.08 |
| 130 | 12.59 | 13.97 | 15.45 | 17.00 | 17.80 | 18.62 | 19.45 | 20.28 | 21.13 |
| 140 | - | 14.11 | 15.75 | 17.49 | 18.39 | 19.32 | 20.26 | 21.21 | 22.18 |
| 150 | - | - | - | 17.94 | 18.96 | 19.99 | 21.05 | 22.13 | 23.23 |
| 160 | - | - | - | - | - | 20.64 | 21.83 | 23.04 | 24.27 |

Mass flow in Ibs/h

| 100 | 363 | 479 | 612 | 762 | 844 | 931 | 1 024 | 1 121 | 1 224 |
|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|
| 110 | 346 | 464 | 597 | 749 | 831 | 919 | 1 011 | 1 109 | 1 212 |
| 120 | 325 | 444 | 579 | 730 | 813 | 901 | 993 | 1 091 | 1 194 |
| 130 | 300 | 420 | 555 | 707 | 790 | 877 | 970 | 1 067 | 1 170 |
| 140 | - | 390 | 526 | 678 | 761 | 848 | 940 | 1 037 | 1 140 |
| 150 | - | - | - | 642 | 725 | 812 | 904 | 1 000 | 1 102 |
| 160 | - | - | - | - | - | 769 | 860 | 956 | 1 057 |

Energy Efficiency Ratio (E.E.R.)

| 100 | 8.06 | 9.55 | 11.14 | 12.88 | 13.82 | 14.82 | 15.89 | 17.04 | 18.27 |
|-----|------|------|-------|-------|-------|-------|-------|-------|-------|
| 110 | 7.11 | 8.50 | 9.95 | 11.49 | 12.32 | 13.19 | 14.10 | 15.08 | 16.12 |
| 120 | 6.22 | 7.53 | 8.84 | 10.21 | 10.93 | 11.68 | 12.47 | 13.31 | 14.19 |
| 130 | 5.38 | 6.60 | 7.79 | 9.00 | 9.64 | 10.29 | 10.97 | 11.68 | 12.42 |
| 140 | - | 5.69 | 6.77 | 7.85 | 8.41 | 8.97 | 9.56 | 10.17 | 10.80 |
| 150 | - | - | - | 6.74 | 7.23 | 7.72 | 8.23 | 8.75 | 9.30 |
| 160 | - | - | - | - | - | 6.51 | 6.96 | 7.41 | 7.88 |

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

| | | , | | | |
|------------------|--------|-------|---------------------|-------|-------|
| Cooling capacity | 50 010 | Btu/h | Current consumption | 17.80 | А |
| Power input | 5 190 | W | Mass flow | 790 | lbs/h |
| E.E.R. | 9.64 | | | | |

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

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

All performance data +/- 5%

Pressure switch settings

| Maximum HP switch setting | 328 | psi(g) |
|---------------------------|-----|--------|
| Minimum LP switch setting | 3 | psi(g) |
| LP pump down setting | 7 | psi(g) |
| | | |

Sound power data

| Sound power level | 0 | dB(A) |
|---------------------|---|-------|
| With accoustic hood | 0 | dB(A) |



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R404A

Datasheet, performance data

Maneurop reciprocating compressor. MTZ072-3

Performance data at 60 Hz, ARI rating conditions

| Cond. temp. | | | | Evapora | ating temperature i | n °F (to) | | | |
|---|--|--|--|--|--|--|--|--|---|
| in °F (tc) | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 45 | 50 |
| ooling capacit | tv in Btu/h | | | | | | | | |
| 90 | 20 206 | 27 209 | 35 820 | 46 242 | 58 676 | 73 327 | 90 397 | 99 902 | 110 088 |
| 100 | 16 621 | 23 277 | 31 390 | 41 160 | 52 789 | 66 477 | 82 427 | 91 313 | 100 840 |
| 110 | 13 305 | 19 506 | 27 013 | 36 025 | 46 739 | 59 356 | 74 076 | 82 287 | 91 099 |
| 120 | 10 266 | 15 903 | 22 696 | 30 839 | 40 528 | 51 963 | 65 339 | 72 818 | 80 856 |
| 130 | - | 12 471 | 18 437 | 25 599 | 34 150 | 44 284 | 56 196 | 62 880 | 70 082 |
| 140 | - | 9 214 | 14 235 | 20 294 | 27 580 | 36 283 | 46 595 | 52 414 | 58 708 |
| | | | | | | | | | |
| ower input in V | w | | | | | | | | |
| 90 | 3 830 | 4 427 | 5 036 | 5 644 | 6 235 | 6 798 | 7 318 | 7 558 | 7 783 |
| 100 | 3 946 | 4 565 | 5 206 | 5 855 | 6 500 | 7 127 | 7 722 | 8 004 | 8 273 |
| 110 | 3 996 | 4 643 | 5 323 | 6 023 | 6 729 | 7 427 | 8 105 | 8 432 | 8 749 |
| 120 | 3 974 | 4 657 | 5 384 | 6 141 | 6 915 | 7 693 | 8 462 | 8 838 | 9 207 |
| | | 1 00 1 | 5 382 | 6 205 | 7 055 | 7 920 | 8 786 | 9 216 | 9 640 |
| 130 | - | 4 601 | 5 362 | 0 200 | 1 000 | | | 0 = 10 | |
| 130 140 | - | 4 601 4 470 | 5 362 | 6 208 | 7 142 | 8 102 | 9 074 | 9 560 | |
| 140 urrent consun | - nption in A | 4 470 | 5 313 | 6 208 | 7 142 | 8 102 | 9 074 | 9 560 | 10 044 |
| 140 urrent consun 90 | - nption in A 13.95 | 4 470 | 5 313 | 6 208 19.13 | 7 142 | 8 102 22.45 | 9 074 23.97 | 9 560 24.68 | 10 044 25.34 |
| 140 urrent consun 90 100 | - nption in A 13.95 14.28 | 4 470 15.65 16.05 | 5 313 17.39 17.89 | 6 208 19.13 19.76 | 7 142 20.83 21.62 | 8 102 22.45 23.45 | 9 074 23.97 25.20 | 9 560 24.68 26.04 | 10 044 25.34 26.85 |
| 140 urrent consun 90 100 110 | - nption in A 13.95 14.28 14.41 | 4 470 15.65 16.05 16.27 | 5 313 17.39 17.89 18.23 | 6 208 19.13 19.76 20.26 | 7 142 20.83 21.62 22.32 | 8 102 22.45 23.45 24.37 | 9 074 23.97 25.20 26.38 | 9 560 24.68 26.04 27.36 | 10 044 25.34 26.85 28.32 |
| 140 urrent consun 90 100 110 120 | - nption in A 13.95 14.28 14.41 14.33 | 4 470 15.65 16.05 16.27 16.31 | 5 313 17.39 17.89 18.23 18.42 | 6 208 19.13 19.76 20.26 20.62 | 7 142 20.83 21.62 22.32 22.90 | 8 102 22.45 23.45 24.37 25.20 | 9 074 23.97 25.20 26.38 27.49 | 9 560 24.68 26.04 27.36 28.62 | 10 044 25.34 26.85 28.32 29.74 |
| 140 urrent consum 90 100 110 120 130 | - nption in A 13.95 14.28 14.41 14.33 - | 4 470 15.65 16.05 16.27 16.31 16.13 | 5 313 17.39 17.89 18.23 18.42 18.41 | 6 208 19.13 19.76 20.26 20.62 20.82 | 7 142 20.83 21.62 22.32 22.90 23.33 | 8 102 22.45 23.45 24.37 25.20 25.90 | 9 074 23.97 25.20 26.38 27.49 28.50 | 9 560 24.68 26.04 27.36 28.62 29.80 | 10 044 25.34 26.85 28.32 29.74 31.09 |
| 140 urrent consun 90 100 110 120 | - nption in A 13.95 14.28 14.41 14.33 | 4 470 15.65 16.05 16.27 16.31 | 5 313 17.39 17.89 18.23 18.42 | 6 208 19.13 19.76 20.26 20.62 | 7 142 20.83 21.62 22.32 22.90 | 8 102 22.45 23.45 24.37 25.20 | 9 074 23.97 25.20 26.38 27.49 | 9 560 24.68 26.04 27.36 28.62 | 10 044 25.34 26.85 28.32 29.74 |
| 140 urrent consum 90 100 110 120 130 | - nption in A 13.95 14.28 14.41 14.33 - - | 4 470 15.65 16.05 16.27 16.31 16.13 | 5 313 17.39 17.89 18.23 18.42 18.41 | 6 208 19.13 19.76 20.26 20.62 20.82 | 7 142 20.83 21.62 22.32 22.90 23.33 | 8 102 22.45 23.45 24.37 25.20 25.90 | 9 074 23.97 25.20 26.38 27.49 28.50 | 9 560 24.68 26.04 27.36 28.62 29.80 | 10 044 25.34 26.85 28.32 29.74 31.09 |
| 140 urrent consum 90 100 110 120 130 140 | - nption in A 13.95 14.28 14.41 14.33 - - | 4 470 15.65 16.05 16.27 16.31 16.13 | 5 313 17.39 17.89 18.23 18.42 18.41 | 6 208 19.13 19.76 20.26 20.62 20.82 | 7 142 20.83 21.62 22.32 22.90 23.33 | 8 102 22.45 23.45 24.37 25.20 25.90 | 9 074 23.97 25.20 26.38 27.49 28.50 | 9 560 24.68 26.04 27.36 28.62 29.80 | 10 044 25.34 26.85 28.32 29.74 31.09 |
| 140 urrent consum 90 100 110 120 130 140 | - nption in A 13.95 14.28 14.41 14.33 s/h | 4 470 15.65 16.05 16.27 16.31 16.13 15.72 | 5 313 17.39 17.89 18.23 18.42 18.41 18.19 | 6 208 19.13 19.76 20.26 20.62 20.82 20.83 | 7 142 20.83 21.62 22.32 22.90 23.33 23.60 | 8 102 22.45 23.45 24.37 25.20 25.90 26.47 | 9 074 23.97 25.20 26.38 27.49 28.50 29.40 | 9 560 24.68 26.04 27.36 28.62 29.80 30.88 | 10 044 25.34 26.85 28.32 29.74 31.09 32.35 |
| 140 urrent consun 90 100 110 120 130 140 wass flow in lbs 90 | - nption in A 13.95 14.28 14.41 14.33 s/h 415 | 4 470 15.65 16.05 16.27 16.31 16.13 15.72 547 | 5 313 17.39 17.89 18.23 18.42 18.41 18.19 701 | 6 208 19.13 19.76 20.26 20.62 20.82 20.83 879 | 7 142 20.83 21.62 22.32 22.90 23.33 23.60 1 084 | 8 102 22.45 23.45 24.37 25.20 25.90 26.47 1 319 | 9 074 23.97 25.20 26.38 27.49 28.50 29.40 1 585 | 9 560 24.68 26.04 27.36 28.62 29.80 30.88 1 731 | 10 044 25.34 26.85 28.32 29.74 31.09 32.35 1 886 |
| 140 urrent consun 90 100 110 120 130 140 with the second secon | - nption in A 13.95 14.28 14.41 14.33 s/h 415 376 | 4 470 15.65 16.05 16.27 16.31 16.13 15.72 547 511 | 5 313 17.39 17.89 18.23 18.42 18.41 18.19 701 668 | 6 208 19.13 19.76 20.26 20.62 20.82 20.83 879 849 | 7 142 20.83 21.62 22.32 22.90 23.33 23.60 1 084 1 056 | 8 102 22.45 23.45 24.37 25.20 25.90 26.47 1 319 1 291 | 9 074 23.97 25.20 26.38 27.49 28.50 29.40 1 585 1 559 | 9 560 24.68 26.04 27.36 28.62 29.80 30.88 1 731 1 705 | 10 044 25.34 26.85 28.32 29.74 31.09 32.35 1 886 1 860 |
| 140 urrent consum 90 100 110 120 130 140 Iass flow in Ibs 90 100 110 | - nption in A 13.95 14.28 14.41 14.33 s/h 415 376 335 | 4 470 15.65 16.05 16.27 16.31 16.13 15.72 547 511 474 | 5 313 17.39 17.89 18.23 18.42 18.41 18.19 701 668 633 | 6 208 19.13 19.76 20.26 20.62 20.82 20.83 879 849 815 | 7 142 20.83 21.62 22.32 22.90 23.33 23.60 1 084 1 056 1 022 | 8 102 22.45 23.45 24.37 25.20 25.90 26.47 1 319 1 291 1 258 | 9 074 23.97 25.20 26.38 27.49 28.50 29.40 1 585 1 559 1 525 | 9 560 24.68 26.04 27.36 28.62 29.80 30.88 1 731 1 705 1 670 | 10 044 25.34 26.85 28.32 29.74 31.09 32.35 1 886 1 860 1 825 |

| 90 | 5.28 | 6.15 | 7.11 | 8.19 | 9.41 | 10.79 | 12.35 | 13.22 | 14.15 |
|-----|------|------|------|------|------|-------|-------|-------|-------|
| 100 | 4.21 | 5.10 | 6.03 | 7.03 | 8.12 | 9.33 | 10.67 | 11.41 | 12.19 |
| 110 | 3.33 | 4.20 | 5.07 | 5.98 | 6.95 | 7.99 | 9.14 | 9.76 | 10.41 |
| 120 | 2.58 | 3.42 | 4.22 | 5.02 | 5.86 | 6.75 | 7.72 | 8.24 | 8.78 |
| 130 | - | 2.71 | 3.43 | 4.13 | 4.84 | 5.59 | 6.40 | 6.82 | 7.27 |
| 140 | - | 2.06 | 2.68 | 3.27 | 3.86 | 4.48 | 5.14 | 5.48 | 5.85 |

Nominal performance at to = 20 °F, tc = 120 °F

| Cooling capacity | 40 528 | Btu/h | Current consumption | 22.90 | А |
|------------------|--------|-------|---------------------|-------|-------|
| Power input | 6 915 | W | Mass flow | 983 | lbs/h |
| E.E.R. | 5.86 | | | | |

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 $^\circ\text{F}$, Subcooling = 0 $^\circ\text{F}$

All performance data +/- 5%

| Pressure switch settin | igs | |
|------------------------|-----|--|
|------------------------|-----|--|

| Maximum HP switch setting | 402 | psi(g) | |
|---------------------------|-----|--------|--|
| Minimum LP switch setting | 3 | psi(g) | |
| LP pump down setting | 13 | psi(g) | |

Sound power data

| eeuna pener aata | | | |
|---------------------|----|-------|--|
| Sound power level | 82 | dB(A) | |
| With accoustic hood | 75 | dB(A) | |



Datasheet, drawing

Maneurop scroll compressor

