

| Models | | TAE/TWE | M05 | M10 | 015 | 020 | 031 | 051 | 081 | 101 | 121 | 161 | 201 | 251 | 301 | 351 | 402 | 502 | 602 |
|----------------------|-------------------------|--------------------------------|----------|----------|---------------|-----------|-----------|-----------|-----------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| R407C | TAE | cooling capacity @ 15°C (1) kW | 2.2 | 4.4 | 7.4 | 9.2 | 13.2 | 20.3 | 28.7 | 38.4 | 45.8 | 53.5 | 61.5 | 78.7 | 90.4 | 105.2 | 121.9 | 151.5 | 181.2 |
| | | cooling capacity @ 7°C (2) kW | 1.6 | 3.2 | 5.2 | 6.7 | 9.9 | 14.6 | 20.8 | 27.9 | 33.3 | 38.3 | 44.4 | 57.0 | 65.8 | 75.0 | 87.3 | 109.1 | 130.5 |
| | | absorbed power @ 15°C (5) kW | 0.7 | 1.3 | 1.6 | 2.1 | 3.2 | 5.2 | 7.0 | 9.2 | 12.3 | 15.8 | 18.2 | 23.6 | 28.0 | 33.8 | 38.8 | 49.3 | |
| R22 | TWE | cooling capacity @ 15°C (3) kW | - | - | 7.9 | 9.9 | 13.9 | 23.0 | 32.1 | 41.5 | 51.4 | 58.3 | 70.0 | 85.6 | 99.0 | - | - | - | - |
| | | cooling capacity @ 7°C (4) kW | - | - | 5.8 | 7.4 | 10.8 | 17.1 | 24.1 | 31.4 | 38.4 | 43.7 | 52.4 | 64.8 | 74.9 | - | - | - | - |
| | | absorbed power @ 15°C (5) kW | - | - | 1.4 | 1.9 | 2.8 | 4.2 | 6.0 | 8.0 | 10.0 | 10.1 | 11.9 | 16.1 | 20.0 | - | - | - | - |
| R22 | TAE | cooling capacity @ 15°C (1) kW | 2.3 | 4.6 | 7.6 | 9.5 | 13.6 | 21.0 | 29.6 | 39.6 | 47.2 | 55.1 | 63.4 | 81.2 | 93.2 | 107.8 | 124.8 | 155.1 | 186.1 |
| | | cooling capacity @ 7°C (2) kW | 1.7 | 3.3 | 5.4 | 6.9 | 10.2 | 15.1 | 21.4 | 28.7 | 34.3 | 39.3 | 45.7 | 58.7 | 67.8 | 76.7 | 89.5 | 111.9 | 134.4 |
| | | absorbed power @ 15°C (5) kW | 0.7 | 1.3 | 1.6 | 2.2 | 3.3 | 5.3 | 7.1 | 9.3 | 12.4 | 12.0 | 14.4 | 18.9 | 23.9 | 23.4 | 28.4 | 39.3 | 50.0 |
| R22 | TWE | cooling capacity @ 15°C (3) kW | - | - | 8.1 | 10.2 | 14.3 | 23.7 | 33.1 | 42.8 | 53.0 | 60.1 | 72.2 | 88.2 | 102.1 | - | - | - | - |
| | | cooling capacity @ 7°C (4) kW | - | - | 6.0 | 7.6 | 11.2 | 17.6 | 24.9 | 32.4 | 39.5 | 45.0 | 54.0 | 66.9 | 77.3 | - | - | - | - |
| | | absorbed power @ 15°C (5) kW | - | - | 1.5 | 1.9 | 2.8 | 4.3 | 6.1 | 8.1 | 10.2 | 10.3 | 12.1 | 16.3 | 20.3 | - | - | - | - |
| COMPRESSOR | installed power (6) kW | 0.85 | 1.7 | 2.3 | 3 | 4.6 | 6.7 | 9.8 | 12.9 | 16.7 | 14.8 | 2x9.8 | 2x12.9 | 2x16.7 | 2x14.8 | 4x9.8 | 4x12.9 | 4x16.7 | |
| ELECTRIC SUPPLY | V/F/Hz | 230/1/50 | | | 400/3/50 (13) | | | | | | | | | | | | | | |
| TANK CAPACITY | liters | 25 | 25 | 60 | 60 | 110 | 110 | 165 | 250 | 250 | 400 | 400 | 400 | 400 | 600 | 600 | 600 | 600 | |
| P0 PUMP | water flow (7) | m³/h | 0.29/1.5 | 0.56/1.5 | 0.91/4.8 | 1.16/4.8 | 1.72/6.0 | 2.55/6.0 | 3.6/9.6 | 4.84/9.6 | 5.78/18.0 | 6.7/18.0 | 7.7/18.0 | 9.89/18.0 | 11.43/30 | 13.2/42.0 | 15.1/42.0 | 18.9/72 | 22.6/72.0 |
| | available pressure | bar | 3.7/1.5 | 3.7/1.5 | 3.0/1.9 | 3.0/1.9 | 3.0/1.5 | 2.9/1.9 | 2.8/1.4 | 2.6/1.7 | 2.8/1.4 | 2.85/1.7 | 2.8/1.7 | 2.7/1.7 | 2.2/0.8 | 3.75/2.5 | 3.6/2.1 | 3.1/1.23 | 3.1/1.2 |
| | nominal power | kW | 0.37 | 0.37 | 0.55 | 0.55 | 0.75 | 0.75 | 0.9 | 0.9 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 4 | 4 | 5.5 | 5.5 |
| P1 PUMP | water flow (7) | m³/h | - | - | 0.93/4.8 | 1.2/4.8 | 1.7/4.8 | 2.6/4.8 | 3.7/12.6 | 4.9/12.6 | 5.9/12.6 | 6.7/30.0 | 7.9/30.0 | 10.1/30.0 | 11.7/30.0 | 13.2/33.0 | 15.4/33.0 | 19.3/54.0 | 23.2/54.0 |
| | available pressure | bar | - | - | 5.5/3.7 | 5.5/3.7 | 5.3/3.6 | 5.1/3.8 | 4.9/2.7 | 4.9/3.4 | 4.8/3.4 | 4.7/2.2 | 4.7/2.2 | 4.6/2.2 | 4.5/2.2 | 6.5/4.4 | 6.3/4.4 | 5.8/2.3 | 5.9/2.3 |
| | nominal power | kW | - | - | 1.1 | 1.1 | 1.1 | 1.1 | 2.2 | 2.2 | 2.2 | 3.7 | 3.7 | 3.7 | 3.7 | 9.2 | 9.2 | 11 | 11 |
| P15 PUMP | water flow (7) | m³/h | - | - | 0.93/4.8 | 1.2/4.8 | 1.7/5.0 | 2.6/7.3 | 3.7/12.6 | 4.9/12.6 | 5.9/17 | 6.7/17 | 7.9/17 | 10.1/17 | 11.7/24 | 13.2/36 | 15.4/36 | 19.3/36 | 23.2/36 |
| | available pressure | bar | - | - | 1.49/0.89 | 1.47/0.89 | 1.4/0.73 | 1.37/0.73 | 1.63/0.5 | 1.6/1.1 | 1.6/0.7 | 1.6/0.9 | 1.5/0.9 | 1.5/0.7 | 1.4/0.78 | 1.41/0.78 | 1.33/0.78 | 1.24/0.78 | |
| | nominal power | kW | - | - | 0.9 | 0.9 | 0.9 | 0.9 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 1.1 | 1.5 | 1.5 | 1.5 | |
| AXIAL FANS TAE | number | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 2 |
| | total nominal power (8) | kW | 0.1/- | 0.11/- | 0.15/- | 0.15/- | 0.45/0.34 | 0.45/0.34 | 0.65/0.46 | 0.9/0.68 | 0.9/0.68 | 1.3/0.92 | 1.3/0.92 | 2.0/1.4 | 2.0/1.4 | 3.3/2.1 | 3.3/2.1 | 3.3/2.1 | 3.3/2.1 |
| | air flow (8) | m³/h | 1100/- | 3000/- | 3300/- | 2900/- | 5900/5100 | 5500/4800 | 7900/6500 | 10800/9000 | 10400/8600 | 15800/13000 | 15800/13000 | 21800/16800 | 21300/16500 | 44000/33000 | 44000/33000 | 42300/32000 | 41600/30600 |
| | noise level (9) | dB(A) | 48.2/- | 48.2/- | 52/- | 52/- | 47/43 | 47/43 | 50/44 | 49/45 | 49/45 | 52/47 | 52/47 | 52/49 | 52/49 | 60/53 | 60/53 | 60/53 | 60/53 |
| CENTRIFUGAL FANS TAE | number | no. | - | - | - | - | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | |
| | total nominal power (8) | kW | - | - | - | - | 1.1 | 1.1 | 2.2 | 2.2 | 2.2 | 3.3 | 3.3 | 3.3 | 8 | 8 | 8 | 8 | |
| | air flow (8) | m³/h | - | - | - | - | 5900/5100 | 5500/4800 | 7900/6500 | 10800/9000 | 10400/8600 | 15800/13000 | 15800/13000 | 21800/16800 | 21300/16500 | 44000/33000 | 44000/33000 | 42300/32000 | 41600/30800 |
| | available pressure (8) | Pa | - | - | - | - | 128/238 | 157/240 | 300/310 | 144/250 | 168/247 | 500/550 | 500/550 | 360/500 | 360/500 | 40/213 | 40/213 | 54/213 | 54/190 |
| TWE WATER CONDENSER | nominal water flow (11) | m³/h | - | - | 0.5 | 0.7 | 1 | 1.7 | 2.7 | 3.4 | 3.8 | 5.3 | 5.3 | 6.3 | 7.7 | - | - | - | |
| | water connections | BSP | - | - | 1 1/4" F | 1 1/4" F | 1 1/4" F | 1 1/4" F | 1 1/2" F | 1 1/2" F | 1 1/2" F | 2" | 2" | 2" | 2" | - | - | - | |
| DIMENSIONS | width | mm. | 744 | 744 | 538 | 538 | 743 | 743 | 743 | 743 | 743 | 860 | 860 | 860 | 860 | 1258 | 1258 | 1258 | 1258 |
| | depth | mm. | 550 | 550 | 983 | 983 | 1090 | 1090 | 1650 | 1650 | 1650 | 2230 | 2230 | 2230 | 2230 | 3588 | 3588 | 3588 | 3588 |
| | height | mm. | 860 | 860 | 1125 | 1125 | 1350 | 1350 | 1350 | 1350 | 1350 | 1900 | 1900 | 1900 | 1900 | 2210 | 2210 | 2210 | 2210 |
| WEIGHT | (12) kg. | 80 | 80 | 127 | 140 | 190 | 215 | 310 | 343 | 365 | 651 | 715 | 750 | 770 | 1247 | 1375 | 1430 | 1500 | |
| WATER CONNECTIONS | BSP | 1/2" | 1/2" | 3/4" | 3/4" | 1" | 1" | 1 1/2" | 1 1/2" | 1 1/2" | 2" | 2" | 2" | 2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | |

CAPACITY CORRECTION FACTORS (indicative values); REFRIGERATING CAPACITY OR HEAT = nominal value x CF1 x CF2 x CF3 x CF4

| | | | | | | |
|--------------------------|-----|------|------|------|---|-----|
| water outlet temperature | °C | -5 | 0 | 5 | 7 | 10 |
| TAE/TWE | CF1 | 0.63 | 0.77 | 0.93 | 1 | 1.1 |

| | | | | | | | | |
|---------------------------|-----|----|------|------|------|----|------|------|
| AMBIENT TEMPERATURE (air) | TAE | °C | 20 | 25 | 30 | 32 | 35 | 40 |
| | CF2 | | 1.12 | 1.07 | 1.02 | 1 | 0.97 | 0.91 |

| | | | | | | | |
|---|-----|----|----|------|-----|------|------|
| WATER INLET TEMPERATURE (with nominal water flow) | TWE | °C | 20 | 25 | 30 | 35 | 40 |
| | CF2 | | 1 | 0.95 | 0.9 | 0.85 | 0.81 |

SOUND PRESSURE LEVEL AT THE DISTANCE L = dB (A) 10 m + D

| | | | | | | | |
|----------------------|----------|---|------|------|------|------|------|
| ethylene glycol (14) | % weight | 0 | 10 | 20 | 30 | 40 | 50 |
| | CF3 | 1 | 0.99 | 0.98 | 0.97 | 0.96 | 0.94 |

| | | |
|------------|-------|-------|
| fans speed | N. S. | L. S. |
| CF4 | 1 | 0.96 |

| | | | | |
|------------|----|---|---|----|
| Distance L | 1 | 3 | 5 | 10 |
| D | 15 | 9 | 5 | 0 |

Notes:

- Water outlet temp. = 15°C; water DELTA T = 5°C; ambient temperature = 25°C.
- Water outlet temp. = 7°C; water DELTA T = 5°C; ambient temperature = 32°C.
- Water outlet temp. = 15°C; water DELTA T = 5°C; Water inlet temp. = 20°C.
- Water outlet temp. = 7°C; water DELTA T = 5°C; Water inlet temp. = 20°C.
- Absorbed power by the refrigerating compressor.
- Power measured at maximum working pressure conditions.
- 1st number = nominal water flow (ΔT = 5°C); 2nd number = max. water flow. Pressure available to process.

- 1st number = normal speed values; 2nd number = low speed values.
- Sound pressure level in free field at a L=10m distance from the unit at condenser side and at 1.2m from the ground.
- Sound pressure level in free field at a L=10m distance from the unit at condenser side; the values refers to the available pressure indicated.
- With water inlet temperature = 20°C; condensing temperature = 35°C.
- Weight refers to the TAE models with axial fans.
- 015 and 020 models are available with 230V/1Ph/50 Hz electric supply (M15 and M20 versions).
- Adjusted water flow by the percentage of glycol to have a DELTA of 5°C.

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