



K7RO - 7C 00.16

COOLING AND HEATING PERFORMANCES

| EWT (°C) | Water Flow (l/s) | COOLING Entering air 25°C : 50 % RH | | | | | | HEATING Entering air : 19°C | | | |
|-------------|---------------------|--|----------|------|------|------------------|------|--------------------------------|----------|---------|------|
| | | COOLING (W) | | COMP | THR | Sensible / total | EF | HEATING (W) | COMP (W) | THA (W) | COP |
| | | Total | sensible | (W) | (W) | | | | | | |
| 13 | 0.25 | 1635 | 1470 | 550 | 2215 | 0.90 | 2.82 | | | | |
| 15 | 0.25 | 1545 | 1440 | 560 | 2135 | 0.93 | 2.62 | | | | |
| 16 | 0.103 | | | | | | | 1960 | 505 | 1425 | 3.66 |
| | 0.067 | | | | | | | 1880 | 500 | 1350 | 3.55 |
| | 0.047 | | | | | | | 1630 | 490 | 1110 | 3.13 |
| 18 | 0.103 | | | | | | | 2100 | 515 | 1555 | 3.85 |
| | 0.067 | | | | | | | 1985 | 505 | 1450 | 3.71 |
| | 0.047 | | | | | | | 1805 | 500 | 1275 | 3.41 |
| 20 | 0.103 | 2070 | 1650 | 470 | 2570 | 0.80 | 4.14 | 2255 | 530 | 1695 | 4.03 |
| | 0.067 | 1950 | 1600 | 485 | 2465 | 0.82 | 3.79 | 2090 | 520 | 1540 | 3.80 |
| | 0.047 | 1805 | 1540 | 510 | 2345 | 0.85 | 3.34 | 1930 | 510 | 1390 | 3.57 |
| 25 | 0.103 | 1955 | 1605 | 505 | 2490 | 0.82 | 3.65 | 2310 | 540 | 1740 | 4.05 |
| | 0.067 | 1885 | 1570 | 515 | 2430 | 0.83 | 3.46 | 2245 | 530 | 1685 | 4.01 |
| | 0.047 | 1745 | 1520 | 530 | 2305 | 0.87 | 3.12 | 2085 | 515 | 1540 | 3.83 |
| 27 | 0.103 | 1870 | 1570 | 520 | 2420 | 0.84 | 3.40 | 2390 | 545 | 1815 | 4.16 |
| | 0.067 | 1825 | 1550 | 530 | 2385 | 0.85 | 3.26 | 2340 | 535 | 1775 | 4.14 |
| | 0.047 | 1710 | 1510 | 550 | 2290 | 0.88 | 2.95 | 2205 | 520 | 1655 | 4.01 |
| 31 | 0.103 | 1700 | 1500 | 545 | 2275 | 0.88 | 2.96 | 2540 | 555 | 1955 | 4.34 |
| | 0.067 | 1645 | 1480 | 565 | 2240 | 0.90 | 2.76 | 2380 | 540 | 1810 | 4.18 |
| | 0.047 | 1545 | 1440 | 575 | 2150 | 0.93 | 2.55 | 2260 | 525 | 1705 | 4.07 |
| 35 | 0.103 | 1500 | 1410 | 575 | 2105 | 0.94 | 2.48 | | | | |
| | 0.067 | 1415 | 1345 | 595 | 2040 | 0.95 | 2.26 | | | | |
| | 0.047 | 1355 | 1300 | 605 | 1990 | 0.96 | 2.13 | | | | |
| 38 | 0.103 | 1415 | 1345 | 605 | 2050 | 0.95 | 2.23 | | | | |
| | 0.067 | 1320 | 1270 | 625 | 1975 | 0.96 | 2.02 | | | | |
| | 0.047 | 1140 | 1110 | 640 | 1810 | 0.97 | 1.70 | | | | |
| 40 | 0.103 | 1305 | 1250 | 630 | 1965 | 0.96 | 1.98 | | | | |
| | 0.067 | 1255 | 1220 | 645 | 1930 | 0.97 | 1.86 | | | | |
| | 0.047 | 1080 | 1080 | 665 | 1775 | 1.00 | 1.55 | | | | |
| 43 | 0.103 | 1180 | 1160 | 650 | 1860 | 0.98 | 1.74 | | | | |
| | 0.067 | 1120 | 1120 | 680 | 1830 | 1.00 | 1.58 | | | | |
| | 0.047 | 990 | 990 | 695 | 1715 | 1.00 | 1.37 | | | | |
| 46 | 0.103 | 1045 | 1045 | 680 | 1755 | 1.00 | 1.47 | | | | |
| | 0.067 | 1010 | 1010 | 700 | 1740 | 1.00 | 1.38 | | | | |
| 48 | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 50 | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

All performances based on nominal airflow [Medium]

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COOLING CORRECTION FACTORS *

10-june-03 DT 0239

| EWT °C | EAT % RH | TOTAL COOLING EAT : 25°C | SENSIBLE COOLING EAT | | | | | COMP EAT : 25°C | THR EAT : 25°C |
|-----------|-------------|--------------------------------|-------------------------|-------|-------|-------|-------|--------------------|-------------------|
| | | | 22°C | 23°C | 24°C | 25°C | 26°C | | |
| 20 | 40 | 0.940 | 0.906 | 0.939 | 0.980 | 1.007 | 1.054 | 0.979 | 0.950 |
| to | 50 | 1.000 | 0.906 | 0.939 | 0.966 | 1.000 | 1.034 | 1.000 | 1.000 |
| 35 | 60 | 1.056 | 0.879 | 0.913 | 0.946 | 0.980 | 1.013 | 1.018 | 1.046 |
| 36 | 40 | 1.000 | 0.857 | 0.905 | 0.952 | 1.000 | 1.040 | 1.000 | 1.000 |
| to | 50 | 1.000 | 0.857 | 0.905 | 0.952 | 1.000 | 1.040 | 1.000 | 1.000 |
| 46 | 60 | 1.051 | 0.849 | 0.889 | 0.936 | 0.976 | 1.016 | 1.023 | 1.040 |

HEATING CORRECTION FACTORS *

| EAT (°C) | 18 | 19 | 20 | 21 |
|----------|-------|-------|-------|-------|
| HEATING | 1.027 | 1.000 | 0.969 | 0.938 |

Water Pressure Drop [Nominal in Bold]

| Flow Rate [l/s] | 0.047 | 0.067 | 0.102 |
|-----------------|-------|--------------|-------|
| Δ P mCE | 14.70 | 19.60 | 32.34 |

AIR FLOW [m3/h] **

| Speed | Low | Medium | High |
|-----------------|-----|------------|------|
| AIR FLOW [m3/h] | 350 | 400 | 450 |

Nominal flow in Bold

AIR FLOW CORRECTION FACTORS *

| Speed | Low | Medium | High |
|------------------|-------|--------|-------|
| Heating | 0.987 | 1.000 | 1.035 |
| Total Cooling | 0.983 | 1.000 | 1.018 |
| Sensible Cooling | 0.926 | 1.000 | 1.067 |

ELECTRICAL

| Voltage | Phase | Fan Amps | | | Compressor Amps | | Fan Abs Pwr | | | Max Absorb Pwr | Fuse Rating (A) |
|-----------|-------|----------|--------|------|-----------------|-------|-------------|--------|------|----------------|-----------------|
| | | low | medium | high | F/L | Start | low | medium | high | | |
| 220/240 V | 1 | 0.13 | 0.15 | 0.17 | 2.8 | 15 | 25 | 30 | 35 | 900 | 4 |

INSTALLATION REQUIREMENTS

| Supply Cable size | Mains Connection |
|-------------------|---------------------|
| 3 Core 1.5mm | Fused Switched Spur |

* Based on Nominal Water Flow

** With clean filter