

Aircooled liquid chillers EET series, screw compressors R134a, shell and tube evaporator, brazed-plate economizers, condenser with copper tubes and aluminium finned core and axial fans

| Cooling Big Evolution | | Model | 210 | 250 | 300 | 350 | 400 | 470 | 510 | 580 | 650 | 700 | 850 | 1000 | 1100 | 1210 | 1350 | 1500 | |
|---|--|-------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|--|
| NOMINAL COOLING CAPACITY (1) | | kW | 233 | 268 | 308 | 358 | 419 | 474 | 518 | 585 | 658 | 728 | 870 | 1017 | 1132 | 1290 | 1383 | 1498 | |
| TOTAL COMPRESSORS NOMINAL ABSORBED POWER (1) | | kW | 67,7 | 75,1 | 78,2 | 97,8 | 116,5 | 124,3 | 139,9 | 164,1 | 183,5 | 210,1 | 245,7 | 262,6 | 322,1 | 355,5 | 398,7 | 423,6 | |
| COP (1) | | kW/kW | 3,44 | 3,57 | 3,94 | 3,66 | 3,60 | 3,81 | 3,70 | 3,56 | 3,59 | 3,47 | 3,54 | 3,87 | 3,51 | 3,63 | 3,47 | 3,54 | |
| EER (1) | | kW/kW | 3,09 | 3,23 | 3,43 | 3,27 | 3,27 | 3,39 | 3,33 | 3,26 | 3,24 | 3,17 | 3,23 | 3,46 | 3,21 | 3,30 | 3,16 | 3,21 | |
| ESEER | | | 4,21 | 4,02 | 4,03 | 4,18 | 4,38 | 4,34 | 4,27 | 4,27 | 4,25 | 4,32 | 4,32 | 4,30 | 4,27 | 4,31 | 4,04 | 4,36 | |
| IPLV | | | 4,68 | 4,50 | 4,53 | 4,65 | 5,05 | 4,98 | 4,84 | 4,85 | 4,71 | 4,89 | 4,90 | 4,85 | 4,84 | 4,88 | 4,57 | 4,98 | |
| COMPRESSORS | | nr. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| REFRIGERATING CIRCUITS | | nr. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| PARTITION STEPS PER COMPRESSOR | | % | 50-75-100 | | | | | | | | | | | | | | | | |
| HYDRAULIC SECTION | | | | | | | | | | | | | | | | | | | |
| NOMINAL WATER FLOW | | m ³ /h | 40,1 | 46,1 | 53,0 | 61,6 | 72,1 | 81,5 | 89,1 | 100,6 | 113,2 | 125,2 | 149,6 | 174,9 | 194,7 | 221,9 | 237,9 | 257,7 | |
| EVAPORATOR PRESSURE DROP | | kPa | 54 | 34 | 38 | 44 | 46 | 56 | 63 | 48 | 48 | 63 | 77 | 71 | 64 | 85 | 81 | 87 | |
| AVAILABLE PRESSURE (2) | | mca | 25,9 | 27,2 | 25,7 | 23,3 | 23,2 | 21,1 | 20,1 | 25,7 | 24,6 | 22,1 | 23,9 | 23,7 | 23,7 | 20,1 | 28,9 | 27,2 | |
| MAXIMUM PUMP ABSORBED POWER (2) | | P3 kW | 8,3 | 8,3 | 8,3 | 8,3 | 10,2 | 10,2 | 10,2 | 16,2 | 16,2 | 16,2 | 24,9 | 24,9 | 31,9 | 31,9 | 39,1 | 39,1 | |
| MAXIMUM PUMP ABSORBED CURRENT (2) | | A | 14,1 | 14,1 | 14,1 | 14,1 | 17,4 | 17,4 | 17,4 | 26,6 | 26,6 | 26,6 | 42,2 | 42,2 | 53,5 | 53,5 | 65,6 | 65,6 | |
| AVAILABLE PRESSURE (2) | | mca | 48,0 | 49,6 | 48,6 | 46,5 | 49,2 | 46,8 | 45,7 | 46,0 | 45,4 | 43,0 | 43,3 | 42,5 | 49,2 | 44,9 | 43,4 | 40,5 | |
| MAXIMUM PUMP ABSORBED POWER (2) | | P5 kW | 16,2 | 16,2 | 16,2 | 16,2 | 24,9 | 24,9 | 24,9 | 31,9 | 31,9 | 31,9 | 39,1 | 39,1 | 47,3 | 47,3 | 57,7 | 57,7 | |
| MAXIMUM PUMP ABSORBED CURRENT (2) | | A | 26,6 | 26,6 | 26,6 | 26,6 | 42,4 | 42,4 | 42,4 | 53,5 | 53,5 | 53,5 | 65,6 | 65,6 | 77,6 | 77,6 | 93,5 | 93,5 | |
| HYDRAULIC CONNECTIONS (VICTAULIC) | | DN | 125 | 125 | 125 | 125 | 125 | 150 | 150 | 150 | 150 | 150 | 200 | 200 | 200 | 200 | 200 | 200 | |
| TANK VOLUME (2) (3) | | dm ³ | 450 | 450 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 800 | 800 | 800 | 800 | 1000 | 1000 | |
| EXPANSION VESSELS NUMBER AND VOLUME (4) | | nr. x liters | 1 x 19 | | | | | | | | | | 2 x 19 | | | | | | |
| FAN SECTION (AXIAL) | | | | | | | | | | | | | | | | | | | |
| TOTAL AIR FLOW | | m ³ /h | 70000 | 70000 | 105000 | 103200 | 97200 | 140000 | 128800 | 129600 | 172000 | 162000 | 194400 | 259200 | 259200 | 273600 | 304000 | 334400 | |
| FANS | | nr. | 4 | 4 | 6 | 6 | 6 | 8 | 8 | 8 | 10 | 10 | 12 | 16 | 16 | 18 | 20 | 22 | |
| FANS ABSORBED POWER | | kW | 7,76 | 7,76 | 11,64 | 11,64 | 11,64 | 15,52 | 15,52 | 15,52 | 19,40 | 19,40 | 23,28 | 31,04 | 31,04 | 34,92 | 38,80 | 42,68 | |
| FANS ABSORBED CURRENT | | A | 15,60 | 15,60 | 23,40 | 23,40 | 23,40 | 31,20 | 31,20 | 31,20 | 39,00 | 39,00 | 46,80 | 62,40 | 62,40 | 70,20 | 78,00 | 85,80 | |
| TOTAL ELECTRIC DATA IP54 protection rating, chillers suitable for outdoor installation | | | | | | | | | | | | | | | | | | | |
| MAXIMUM ASSORBED CURRENT PER COMPRESSOR (F.L.A.) | | A | 66,0 | 86,0 | 108,0 | 124,0 | 144,0 | 162,0 | 155,0 | 182,0 | 196,0 | 214,0 | 280,0 | 310,0 | 320,0 | 360,0 | 413,0 | 447,0 | |
| MAXIMUM PEAK CURRENT PER COMPRESSOR (PW) (L.R.A.) | | A | 182 / 338 | 218 / 411 | 269 / 508 | 290 / 485 | 350 / 585 | 423 / 686 | 439 / 675 | 520 / 801 | 612 / 943 | 665 / 1023 | 436 / 1364 | 465 / 1442 | 586 / 1853 | 650 / 2029 | 805 / 2520 | 917 / 2870 | |
| MOTOR CONNECTION (PW = part winding; Y-D = star-delta) | | | PW | PW | PW | PW | PW | PW | PW | PW | PW | PW | Y-D | Y-D | Y-D | Y-D | Y-D | Y-D | |
| ELECTRIC FEED | | V/Ph/Hz | 400/3/50 | | | | | | | | | | | | | | | | |
| NOISE DATA | | | | | | | | | | | | | | | | | | | |
| SOUND PRESSURE FOR STANDARD CONFIGURATION (5) | | dB(A) | 64,3 | 65,5 | 66,3 | 65,8 | 65,9 | 66,4 | 68,7 | 69,8 | 69,2 | 69,4 | 70,4 | 71,0 | 71,5 | 72,3 | 73,0 | 74,2 | |
| DIMENSIONS AND WEIGHT | | | | | | | | | | | | | | | | | | | |
| LENGTH | | mm | 3100 | 3100 | 4050 | 4050 | 4050 | 5000 | 5000 | 5000 | 5950 | 5950 | 6900 | 8800 | 8800 | 9750 | 10700 | 11650 | |
| WIDTH | | mm | 2210 | 2210 | 2210 | 2210 | 2210 | 2210 | 2210 | 2210 | 2210 | 2210 | 2210 | 2210 | 2210 | 2210 | 2210 | 2210 | |
| HEIGHT | | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | |
| WEIGHT EMPTY FOR STANDARD CONFIGURATION | | kg | 3000 | 3150 | 3900 | 4200 | 4300 | 4700 | 4800 | 4900 | 5600 | 5850 | 6500 | 8400 | 8500 | 9400 | 10400 | 11300 | |
| WEIGHT OPERATIVE FOR STANDARD CONFIGURATION | | kg | 3150 | 3300 | 4060 | 4370 | 4480 | 4890 | 5000 | 5100 | 5820 | 6100 | 6790 | 8750 | 8850 | 9750 | 10780 | 11690 | |

The manufacturer reserves the right to modify specifications without notice.

Updated on 16/09/2015

Data referred to:

- (1) 100% of Load - Inlet/Outlet water temperature = +12/+7 °C - Condenser air temperature = +35°C; fouling factor = 0.000043 m²K/W.
- (2) With options: NT.WP (no tank - water pump P3), T.WP (tank - water pump P3), NT.PH (no tank - water pump P5), T.PH (tank - water pump P5).
- (3) Minimum water content for the hydraulic circuit to be verified.
- (4) With option XV (expansion vessel kit).
- (5) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface.