

Applied Systems

Chillers

Air cooled inverter chiller, high efficiency, standard sound

- » ESEER up to 5.24
- » Inverter stepless single screw compressor
- » High efficiency, standard sound
- » R-134a refrigerant
- » Wide operating range
- » Extensive option list
- » Low starting current
- » MicroTech III controller



Cooling only

| CAPACITY CLASS | | | | 670 | 740 | 830 | 900 | C10 | C11 | C12 | C13 | C14 | C15 | C16 | C17 | C18 | | | | | | | | | |
|----------------------|-------------------------|-----------------------------|--|---|---------|------|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|------------------|----|----|----|----|
| Cooling capacity | nom. | | | kW | | | 672 ¹ | 738 ¹ | 832 ¹ | 902 ¹ | 1,037 ¹ | 1,095 ¹ | 1,236 ¹ | 1,308 ¹ | 1,450 ¹ | 1,545 ¹ | 1,622 ¹ | 1,709 ¹ | 1,802 ¹ | | | | | | |
| Capacity control | method | | | Stepless | | | | | | | | | | | | | | | | | | | | | |
| | minimum capacity | | | % | | | | | | | | | | | | | | | | | | | | | |
| Power input | cooling | | | nom. | | | kW | | | 245 ¹ | 235 ¹ | 266 ¹ | 305 ¹ | 339 ¹ | 375 ¹ | 400 ¹ | 442 ¹ | 488 ¹ | 531 ¹ | 558 ¹ | 611 ¹ | | | | |
| | EER | | | | | | 2.74 ¹ | 3.14 ¹ | 3.13 ¹ | 2.96 ¹ | 3.06 ¹ | 2.92 ¹ | 3.09 ¹ | 2.96 ¹ | 2.97 ¹ | 2.91 ¹ | 2.90 ¹ | 2.95 ¹ | 2.90 ¹ | 2.95 ¹ | | | | | |
| ESEER | | | | | | 5.07 | 5.13 | 5.20 | 5.22 | 5.24 | 5.03 | 4.93 | 4.74 | 5.02 | 5.17 | 5.03 | 5.76 | 4.85 | | | | | | | |
| Dimensions | unit | heightxwidthxdepth | | mm | | | 2,540x2,285x6,725 | 2,540x2,285x7,625 | 2,540x2,285x8,525 | 2,540x2,285x10,325 | 2,540x2,285x11,625 | 2,540x2,285x12,525 | 2,540x2,285x13,425 | 2,540x2,285x14,325 | | | | | | | | | | | |
| Weight | unit | | | kg | | | 5,880 | 6,000 | 6,620 | 6,870 | 7,440 | 8,570 | 8,970 | 9,600 | 9,940 | 11,370 | 12,190 | 12,920 | | | | | | | |
| | operation weight | | | kg | | | 6,140 | 6,250 | 6,860 | 7,110 | 7,880 | 8,960 | 9,360 | 9,980 | 10,320 | 12,220 | 13,040 | 13,790 | | | | | | | |
| Water heat exchanger | type | | | Single pass shell & tube | | | | | | | | | | | | | | | | | | | | | |
| | water volume | | | l | | | 263 | 248 | 241 | 441 | 383 | 374 | 850 | 871 | | | | | | | | | | | |
| | nominal water flow | cooling | | | l/s | | | 32.00 | 35.20 | 39.70 | 43.00 | 49.50 | 52.30 | 59.00 | 62.40 | 69.20 | 73.70 | 77.40 | 81.50 | 86.00 | | | | | |
| | | nominal water pressure drop | | | cooling | | | heat exchanger | | | kPa | | | 80 | 75 | 55 | 64 | 63 | 69 | 46 | 51 | 61 | 71 | 62 | 68 |
| Air heat exchanger | type | | | High efficiency fin and tube type with integral subcooler | | | | | | | | | | | | | | | | | | | | | |
| Fan | air flow rate | | | nom. | | | l/s | | | 54,188 | 65,025 | 75,863 | 86,700 | 108,376 | 119,213 | 130,051 | 129,454 | 140,143 | 151,129 | | | | | | |
| Fan motor | speed | | | cooling | | | nom. | | | rpm | | | | | | | | | | | | | | | |
| Sound power level | cooling | | | nom. | | | dBA | | | 102.1 | 102.2 | 102.5 | 102.9 | 103.5 | 104.1 | 105.8 | 106.0 | 106.2 | | | | | | | |
| | Sound pressure level | | | cooling | | | nom. | | | dBA | | | 81.0 ² | 81.0 ² | 81.1 ² | 81.1 ² | 81.2 ² | 82.8 ² | 82.9 ² | | | | | | |
| Compressor | type | | | Semi-hermetic single screw compressor | | | | | | | | | | | | | | | | | | | | | |
| Operation range | water side | | | cooling | | | min.~max. | | | °CDB | | | | | | | | | | | | | | | |
| | air side | | | cooling | | | min.~max. | | | °CDB | | | | | | | | | | | | | | | |
| Refrigerant | type | | | R-134a | | | | | | | | | | | | | | | | | | | | | |
| | circuits | | | quantity | | | 2 | | | 3 | | | | | | | | | | | | | | | |
| Refrigerant circuit | charge | | | kg | | | 141 | 161 | 178 | 200 | 235 | 275 | 320 | 327 | 343 | 361 | | | | | | | | | |
| Power supply | phase/frequency/voltage | | | Hz/V | | | 3~/50/400 | | | | | | | | | | | | | | | | | | |

(1) Cooling: entering evaporator water temp. 12°C; leaving evaporator water temp. 7°C; ambient air temp. 35°C; full load operation. (2) Sound pressure levels are measured at entering evaporator water temp. 12°C; leaving evaporator water temp. 7°C; ambient air temp. 35°C; full load operation; Standard: ISO3744 (3) Allowed voltage tolerance ± 10%. Voltage unbalance between phases must be within ± 3%. (4) Maximum starting current: starting current of biggest compressor + 75 % of maximum current of the other compressor + fans current for the circuit at 75 % (5) Nominal current in cooling mode: entering evaporator water temp. 12°C; leaving evaporator water temp. 7°C; ambient air temp. 35°C. Compressor + fans current. (6) Maximum running current is based on max compressor absorbed current in its envelope and max fans absorbed current (7) Maximum unit current for wires sizing is based on minimum allowed voltage. (8) Maximum current for wires sizing: (compressors full load ampere + fans current) x 1.1



EWAD-CZXS



MicroTech III

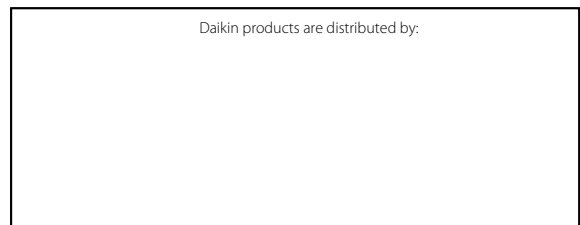


Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues. For several years Daikin has had the intention to become a leader in the provision of products that have limited impact on the environment. This challenge demands the eco design and development of a wide range of products and an energy management system, resulting in energy conservation and a reduction of waste.



Daikin Europe N.V. participates in the Eurovent Certification programme for Air conditioners (AC), Liquid Chilling Packages (LCP) and Fan coil units (FCU). Check ongoing validity of certificate online: www.eurovent-certification.com or using: www.certiflash.com

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