

Applied Systems

Chillers

Air cooled inverter chiller, high efficiency, reduced sound

- » **ESEER up to 5.8**
- » **Inverter stepless single screw compressor**
- » **High efficiency, reduced sound**
- » **R-134a refrigerant**
- » **Wide operating range**
- » **Extensive option list**
- » **Low starting current**
- » **MicroTech III controller**



Cooling only

CAPACITY CLASS				640	700	790	850	980	C10	C11	C12	C13	C14	C15	C16	C17					
Cooling capacity	nom.	kW		635 ¹	700 ¹	789 ¹	852 ¹	976 ¹	1,031 ¹	1,170 ¹	1,235 ¹	1,332 ¹	1,443 ¹	1,545 ¹	1,631 ¹	1,712 ¹					
Capacity control	method	Stepless																			
	minimum capacity	%																			
Power input	cooling	nom.	kW		20										13						
			260 ¹	242 ¹	271 ¹	314 ¹	347 ¹	388 ¹	408 ¹	455 ¹	524 ¹	589 ¹	580 ¹	610 ¹	631 ¹						
EER				2.44 ¹	2.89 ¹	2.91 ¹	2.71 ¹	2.81 ¹	2.65 ¹	2.86 ¹	2.71 ¹	2.55 ¹	2.45 ¹	2.66 ¹	2.67 ¹	2.71 ¹					
ESEER				5.52	5.71	5.76		5.79	5.49	5.41	5.05	5.45	5.60	5.51	5.33	5.19					
Dimensions	unit	heightxwidthxdepth		mm		2,540x2,285x6,725		2,540x2,285x7,625		2,540x2,285x8,325		2,540x2,285x10,325		2,540x2,285x11,625		2,540x2,285x12,525		2,540x2,285x14,425		2,540x2,285x14,325	
Weight	unit			kg		6,170	6,470	7,100	7,360	7,950	7,950	9,120	9,530	10,180	10,530	12,150	12,990	13,740			
	operation weight			kg		6,430	6,720	7,340	7,600	8,390	8,390	9,500	9,920	10,550	10,910	13,000	13,840	14,610			
Water heat exchanger	type	Single pass shell & tube																			
	water volume			l		263	248	241		441	441	383		374		850		871			
	nominal water flow	cooling	l/s		30.30	33.40	37.60	40.70	46.60	49.20	55.80	58.9	63.60	68.80	73.70	77.80	81.70				
			nominal water pressure drop	cooling	heat exchanger	kPa		73	69	51	58	57	63	43	47	53	59	57	62	59	
Air heat exchanger	type	High efficiency fin and tube type with integral subcooler																			
Fan	air flow rate	nom.		l/s		41,536	49,843	58,151		66,458	66,458	83,072		99,687		107,994	116,301				
Fan motor	speed	cooling	nom.		rpm															700	
Sound power level	cooling	nom.		dBA		94.6	95.2	95.5		95.9	95.9	96.5		97.1		98.8	99.0	99.2			
	cooling	nom.		dBA		73.5 ²	74.0 ²	74.1 ²		74.1 ²	74.1 ²	74.2 ²		75.8 ²		75.9 ²					
Compressor	type	Semi-hermetic single screw compressor																			
Operation range	water side	cooling	min.~max.		°CDB															-8~15	
	air side	cooling	min.~max.		°CDB															-18~50	
Refrigerant	type	R-134a																			
	circuits	quantity		2										3							
Refrigerant circuit	charge			kg		141	161	178		200	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-CZXR



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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