

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



www.daikin.eu

Cooling only

CAPACITY CLASS						700	790	850	980	C10	C11	C12	C13	C14	C15	C16	C17	
	nom. kW				640 635 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	1,712 1	
Cooling capacity					035	700	789	852	9/6	1,031		1,235	1,332	1,443	1,545	1,031	1,/12	
Capacity control	method				Stepless													
_	minimum capacity			%		20										13		
Power input	cooling nom.			kW	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	heightxwic	mm	2,540x2,2	285x6,725	2,540x2,2	85x7,625	5 2,540x2,285x8,525 2,540x2,285x8,525 2,540x2,285x10,32		85x10,325	2,540x2,285x11,625	2,540x2,2	85x12,525	2,540x2,285x13,425	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 weigh	weight			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			1	263	248	24	11	441	441	383		374		850		871	
	nominal water flow	cooling		I/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	te nom.			41,536	49,843	58,151 66,458 66,458 83,072					.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	5.5	95.9	95.9	96	5.5	97.1		98.8	99.0	99.2	
Sound pressure level	cooling	nom.		dBA	73.5 ²	74.0 ²		74.1 2 74.1 2 74.2 2							75.8 ²	5.8 ² 75.9 ²		
Compressor	type				Semi-hermetic single screw compressor													
Operation range	water side	cooling	min.~max.	3 -8~15														
	air side	cooling	min.~max.	°CDB		-18~50												
Refrigerant	type				R-134a													
	circuits quantity					2										3		
Refrigerant circuit				kg	141	161	17	78	200	200	23	35	275	320	327	343	361	
Power supply				Hz/V														
i ower supply	priase/frequency/voltage FIZ/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. 7°C; ambi 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

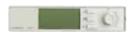


EWAD-CZXR



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.

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MicroTech III









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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