DAIKIN

Applied Systems

Chillers

Air cooled inverter chiller, high efficiency, low sound

- » **ESEER up to 5.24**
- » **Inverter stepless single screw compressor**
- » **High efficiency, low 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			%	20										13		
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]	588[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]	2.91[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	5.03	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	6,170	6,280	6,900	7,150	7,720	7,720	8,850	9,250	9,880	10,220	11,790	12,610	13,340
	operation weight			kg	6,430	6,530	7,140	7,390	8,160	8,160	9,240	9,640	10,260	10,600	12,640	13,460	14,210
Water heat exchanger	type				Single pass shell & tube												
	water volume			l	263	248	241		441	441	383		374	374	850	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	64
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	75,863	86,700	86,700	108,376		119,213	130,051	129,454	140,143	151,129
Fan motor	speed	cooling	nom.	rpm	900												
Sound power level	cooling	nom.		dBA	98.6	99.2	99.5		99.9		100.5		101.1		102.8	103.0	103.2
Sound pressure level	cooling	nom.		dBA	77.5[2]	78.0[2]	78.1[2]	78.1[2]			78.2[2]		78.2[2]		79.8[2]	79.9[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		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-CZXL

MicroTech III

In all of us, a green heart

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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