DAIKIN APPLIED (UK) LTD

Air cooled screw inverter chiller, high efficiency, standard/low sound

EWAD-CZXS/XL

R-134a

Inverter

Screw compressor

› High efficiency with leader-of-class ESEER
› Inverter stepless single-screw compressor
› Highly efficient fans with patented blade profile for quiet operation

› Extensive option list (heat recovery option available)

EWAD-CZXS/XL

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MICROTECH III

Cooling only				EWAD-CZXS/XL	740	830	900	C10	C11	C12	C13	C14	C15	C16	C17	C18
Cooling capacity	Nom.			kW	734	828	898	1,033	1,090	1,232	1,303	1,444	1,538	1,616	1,701	1,795
Power input	Cooling	Nom.		kW	239	269	309	343	380	404	447	494	538	564	596	619
Capacity control	Method				Stepless											
	Minimum capacity			%	20.0										13.0	
EER					3.07		2.90	3.01	2.87	3.05	2.92	2.93	2.86		2.85	2.90
ESEER					4.72	4.89	4.88	4.91	4.70		4.51	4.73	4.83	4.59	4.62	4.61
IPLV					5.68	5.72	5.79	5.73	5.56	5.58	5.45	5.61	5.75	5.65	5.46	5.29
Dimensions	Unit	Height		mm	2,540											
		Width		mm	2,285											
		Depth		mm	6,725	7,625		8,525		10,325		11,625	12,525		13,425	14,325
Weight (XS)	Unit			kg	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	6,250	6,860	7,110	7,880		8,960	9,360	9,980	10,320	12,220	13,040	13,790
Weight (XL)	Unit			kg	6,280	6,900	7,150	7,720		8,850	9,250	9,880	10,220	11,790	12,610	13,340
	Operation weight			kg	6,530	7,140	7,390	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	248	241		441		383		374		850		871
	Water flow rate	Cooling	Nom.	l/s	35.2	39.7	43.0	49.5	52.3	59.0	62.4	69.2	73.7	77.4	81.5	86.0
	Water pressure drop	Cooling	Nom.	kPa	83	58	65	63	70	47	52	62	72	63	69	65
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler											
Compressor	Type				Asymmetric single screw compressor											
	Quantity				2									3		
Fan	Type				Direct propeller											
	Quantity				12	14		16		20		22	24		26	28
	Air flow rate	Nom.		l/s	65,026	75,863		86,701		108,376		119,214	130,051	129,455	140,143	151,130
	Speed			rpm	900											
Sound power level (XS)	Cooling	Nom.		dBA	102	103				104				106		
Sound power level (XL)	Cooling	Nom.		dBA	99	100				101				103		
Sound pressure level (XS)	Cooling	Nom.		dBA	81									83		
Sound pressure level (XL)	Cooling	Nom.		dBA	78									80		
Operation range	Water side	Cooling	Min.~Max.	°CDB	-8~15											
	Air side	Cooling	Min.~Max.	°CDB	-18~50											
Refrigerant	Type / GWP				R-134a / 1,430											
	Circuits	Quantity			2									3		
Refrigerant charge	Per circuit			kg	73.0	81.0		100.0		125.0			140.0	106.7	113.3	116.7
	Per circuit			TCO_2Eq	104.4	115.8		143.0		178.8			200.2	152.5	162.1	166.8
Piping connections	Evaporator water inlet/outlet (OD)				168.3mm			219.1mm						273mm		
Unit	Maximum starting current			A	374	416	447	496	534	585	620	703	765	840	890	940
	Nominal running current (RLA)	Cooling		A	403	438	481	532	586	630	692	762	829	873	922	962
	Maximum running current			A	524	579	626	691	748	816	869	970	1,072	1,121	1,182	1,243
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400											

Cooling: entering evaporator water temp. 12°C; leaving evaporator water temp. 7°C; ambient air temp. 35°C; full load operation.
Equipment contains fluorinated greenhouse gases. Actual refrigerant charge depends on the final unit construction, details can be found on the unit labels.

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