Air cooled screw chiller, high efficiency, standard sound

EWAD-D-XS

R-134a

Screw compressor

- 2 truly independent refrigerant circuits
- Stepless single-screw compressor
- Optimised for use with R-134a
- Large operation range (ambient temperature down to -18°C)
- MicroTech III controller with superior control logic and easy interface

EWAD-D-XS

EWAD-D-XS

MICROTECH III

Cooling only				EWAD-D-XS	250	280	300	330	350	380	400	470	520	580	620
Cooling capacity	Nom.			kW	246	274	300	326	350	374	399	467	522	573	620
Power input	Cooling	Nom.		kW	80.1	88.2	95.4	105	114	121	129	152	169	183	196
Capacity control	Method				Stepless										
	Minimum capacity			%	12.5										
EER					3.07	3.11	3.15	3.10	3.06	3.08	3.10	3.07	3.09	3.12	3.16
ESEER					3.45	3.49	3.51	3.73	3.56	3.47	3.48	3.72	3.88	3.89	3.75
IPLV					3.98	4.00		4.08	4.07	4.06	3.98	4.16	4.83		4.61
Dimensions	Unit	Height		mm	2,355							2,223			
		Width		mm	2,234										
		Depth		mm	3,138	4,040							4,940		
Weight	Unit			kg	2,905	3,285		3,235	3,240			3,510	4,670	4,685	
	Operation weight			kg	3,000	3,400						3,780	4,940		
Water heat exchanger	Type				Single pass shell & tube										
	Water flow rate	Cooling	Nom.	l/s	11.8	13.1	14.4	15.6	16.7	17.9	19.1	22.4	25.0	27.4	29.7
	Water pressure drop	Cooling	Nom.	kPa	48	45	49	46	51	58	64	47	63	56	38
	Water volume			l	95	115		165	160			270		255	
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler										
Compressor	Type				Single screw compressor								Asymmetric single screw compressor		
	Quantity				2										
Fan	Type				Direct propeller										
	Quantity				6	8							10		
	Air flow rate	Nom.		l/s	22,302	30,591	29,736			43,001	42,306	43,696	54,620		
	Speed			rpm	900					890					
Sound power level	Cooling	Nom.		dBA	97					99					
Sound pressure level	Cooling	Nom.		dBA	3.16					3.16					
Operation range	Air side	Cooling	Min.~Max.	°CDB	-18~48										
	Water side	Cooling	Min.~Max.	°CDB	-15~15										
Refrigerant	Type / GWP				R-134a / 1,430										
	Circuits	Quantity			2										
Refrigerant charge	Per circuit			kg	29.0	33.0	35.0	38.0	35.0		39.0	42.0	45.0		50.0
				TCO_2Eq	41.5	47.2	50.1	54.3	50.1		55.8	60.1	64.4		71.5
Piping connections	Evaporator water inlet/outlet (OD)				4"							6"			
Unit	Starting current	Max		A	224	240		283	292	312		423	480	498	
	Running current	Cooling	Nom.	A	132	145	158	172	185	203	213	253	283	305	324
		Max		A	178	199	216	227	239	268	283	328	365	387	410
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. | 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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