



Air cooled screw
chiller, high
ambient,
standard sound

EWAD-D-HS

R-134a



Screw compressor

- › High ambient
- › Stepless single-screw compressor
- › Optimised for use with R-134a

- › Large operation range (ambient temperature down to -18°C)

EWAD-D-HS



Cooling only				EWAD-D-HS															
				200	210	230	260	270	290	310	340	380	420	450	480	510	550	590	
Cooling capacity	Nom.	KW		194	208	233	255	272	288	305	334	379	413	446	476	512	545	585	
Power input	Cooling	KW		77.9	76.0	83.9	92.1	98.9	105	114	122	129	143	152	164	177	185	194	
Capacity control	Method	Stepless																	
	Minimum capacity	%		12.5															
EER				2.49	2.73	2.77		2.75	2.73	2.68	2.75	2.93	2.90	2.93	2.90	2.89	2.95	3.02	
ESEER				3.02	3.16	3.24	3.11	3.20	3.18	3.17	3.15	3.46	3.50	3.57		3.55	3.60	3.68	
IPLV				3.56	3.74	3.77	3.66	3.74	3.73	3.72	3.64	3.99	4.00	4.05	3.99	4.10	4.18	4.50	
Dimensions	Unit	Height	mm	2,223															
		Width	mm	2,234															
		Depth	mm	2,239		3,339				4,040				4,940					
Weight	Unit	kg		2,475	2,470	2,865		2,870		3,185		3,277	3,942	4,356	4,361	4,366			
	Operation weight	kg		2,500		2,960				3,300		3,447	4,112	4,526					
Water heat exchanger	Type				Plate heat exchanger				Single pass shell & tube										
	Water flow rate	Cooling	Nom.	l/s	9.3	9.9	11.1	12.2	13.1	13.8	14.6	16.0	18.2	19.8	21.4	22.8	24.5	26.1	28.0
	Water pressure drop	Cooling	Nom.	kPa	32	24	46	52	54	59	64	58	70	46	53	58	51	56	53
	Water volume	l		25	30	95			90			115		170		165		160	
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	4				6				8				10					
	Air flow rate	Nom.	l/s	21,848	21,153	32,772		32,251	31,729	43,696			42,306	54,620					
Fan motor	Speed	Cooling	Nom.	rpm	890														
Sound power level	Cooling	Nom.		dB(A)	96				97	99	97	98			99	100			
Sound pressure level	Cooling	Nom.		dB(A)	77				79	77	78		79	80					
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		18.0	21.0	22.0	26.0	28.0	31.0	28.0	34.0	30.0	45.0	47.5	46.0	47.0			
		TCO ₂ Eq		25.7	30.0	31.5	37.2	40.0	44.3	40.0	48.6	42.9	64.4	67.9	65.8	67.2			
Piping connections	Evaporator water inlet/outlet (OD)	3"				4"				5"									
	Unit	Starting current	Max	A	222	239		283	291	303	307	312	423	468	489		498		
	Running current	Cooling	Nom.	A	134	131	145	157	169	180	191	204	214	239	258	275	295	306	320
		Max	A	172	197	213	224	234	249	272	283	320	338	367	388	399	410		
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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