



Air cooled
screw chiller,
high efficiency,
reduced
sound

EWAD-C-XR

R-134a



Screw compressor

- › Stepless single-screw compressor
- › Large operation range (ambient temperature down to -18°C and up to 50°C)
- › 2-3 truly independent refrigerant circuits

- › DX shell and tube evaporator - one pass refrigerant side to minimize pressure drops
- › Partial and total heat recovery option available

EWAD-C-XR



Cooling only				EWAD-C-XR																	
				740	810	870	970	C10	C11	C12	C13	H14	H15	C16	C17	C18	C19	C20	C21	C22	
Cooling capacity	Nom.	kW		732	808	862	970	1,036	1,164	1,243	1,297	1,360	1,460	1,544	1,632	1,715	1,805	1,849	1,897	1,947	
Power input	Cooling	Nom.	kW	238	257	285	313	348	369	409	420	460	498	518	548	574	604	629	662	696	
Capacity control	Method	Stepless																			
	Minimum capacity	%	12.5												7.0						
EER				3.07	3.15	3.03	3.10	2.98	3.16	3.04	3.09	2.96	2.93	2.98		2.99		2.94	2.87	2.80	
ESEER				4.01	4.16	4.01	4.12	4.01	4.21	4.07	4.10		4.12	4.08	4.00	4.05	4.00	4.09	3.96	3.94	
IPLV				4.56	4.62	4.51	4.63	4.59	4.65	4.61	4.63	4.74	4.83	4.67	4.65		4.63	4.69	4.54	4.53	
Dimensions	Unit	Height	mm	2,540																	
		Width	mm	2,285																	
		Depth	mm	6,285	7,185	8,085			9,885						12,085	12,985	13,885		14,785		
Weight	Unit	kg	6,280	6,630	6,650	7,480	7,760	8,510	8,530	9,190			12,010	12,350	12,700		13,040				
	Operation weight	kg	6,520	6,870	6,890	7,880	8,160	8,900	8,920	10,180			12,870	13,200	13,580		13,910				
Water heat exchanger	Type	Single pass shell & tube																			
	Water volume	l	251	243		403		386		979			850	871		850					
	Water flow rate	Cooling	Nom.	l/s	35.1	38.7	41.3	46.5	49.7	55.7	59.5	62.1	65.2	70.0	74.0	78.2	82.2	86.5	88.5	90.7	93.1
	Water pressure drop	Cooling	Nom.	kPa	77	54	61	58	65	43	64	73	79	59	65		71	37	39	41	
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						24	26	28	30					
	Air flow rate	Nom.	l/s	49,208	57,410		65,611		82,014						98,417	106,618	114,819		123,021		
	Speed	rpm	700																		
Sound power level	Cooling	Nom.	dBA	92			94			95			96			97					
Sound pressure level	Cooling	Nom.	dBA	72			73			72			73			74					
Operation range	Water side	Cooling	Min.~Max.	°CDB																	
	Air side	Cooling	Min.~Max.	°CDB																	
Refrigerant	Type / GWP	R-134a / 1,430																			
	Circuits	Quantity		2									3								
Refrigerant charge	Per circuit	kg	75.0	81.0	91.0	100.0	115.0	117.5	125.0	124.0	103.3	109.0	113.3	120.0			125.0				
	Per circuit	TCO _{Eq}	107.3	115.8	130.1	143.0	164.5	168.0	178.8	177.3	147.8	155.9	162.1	171.6			178.8				
Piping connections	Evaporator water inlet/outlet (OD)		168.3mm			219.1mm			273mm												
Unit	Maximum starting current	A	610	647		911	959		1,015		1,058	1,071	1,246	1,303	1,359	1,402	1,444	1,458			
	Nominal running current (RLA)	Cooling	A	392	426	470	518	572	613	679	699	753	807	854	903	951	1,000	1,040	1,087	1,136	
	Maximum running current	A	493	542	585	649	708	783	847		901	954	1,063	1,132	1,201	1,271	1,324	1,377	1,431		
Power supply	Phase/Frequency/Voltage	Hz/V	3~/50/400																		

(l) 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.

For more information email info@daikinapplied.uk or visit www.daikinapplied.uk

London Sales Office
 69 Questor Estate
 Pearsons Way
 Dartford, Kent
 DA1 1JN
 01322 424950

Head Office
 Bassington Industrial Estate
 Cramlington, Northumberland
 NE23 8AF
 01670 566159



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