



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	49	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			-8~15																		
	Air side	Cooling	Min.~Max.	°CDB			-18~50																		
Refrigerant	Type / GWP	R-134a / 1,430																							
	Circuits	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.

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