



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

EWAD-C-XS/XL

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-XS/XL



Cooling only				EWAD-C-XS/XL																		
				760	830	890	990	C10	C11	C12	C13	H14	H15	C16	C17	C18	C19	C20	C21	C22		
Cooling capacity	Nom.	kW		752	827	885	997	1,069	1,192	1,276	1,343	1,408	1,517	1,590	1,678	1,760	1,849	1,896	1,947	2,002		
Power input	Cooling	kW		237	256	282	311	343	367	404	416	450	483	510	541	569	598	619	648	678		
Capacity control	Method	Stepless																				
	Minimum capacity	%		12.5									7.0									
EER				3.17	3.22	3.14	3.20	3.12	3.25	3.15	3.23	3.13	3.14	3.12	3.10	3.09		3.06	3.00	2.95		
ESEER				3.77	3.92	3.81	3.91	3.84	3.99	3.86	4.05	4.04	4.06	4.00	3.96	3.94	3.93	4.02	3.91	3.89		
IPLV				4.48	4.52	4.50	4.44	4.50	4.47	4.60	4.71	4.81	4.58	4.59	4.51	4.53	4.57	4.42	4.47			
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 (XS)	Unit	kg		5,990	6,340	6,360	7,190	7,470	8,220	8,240	8,900		11,570	11,900	12,260		12,600					
	Operation weight	kg		6,240	6,580	6,600	7,600	7,870	8,610	8,630	9,890		12,430	12,760	13,140		13,470					
Weight (XL)	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	36.1	39.6	42.4	47.8	51.2	57.1	61.1	64.4	67.5	72.8	76.1	80.4	84.4	88.6	90.7	93.2	95.8	
	Water pressure drop	Cooling	Nom.	kPa	81	57	64	61	69	45	51	68	77	84	62	68		74	39	41	43	
Air heat exchanger	Type	High efficiency fin and tube type with integral subcooler																				
Compressor	Type	Asymmetric single screw compressor																				
	Quantity	2																				
Fan	Type	Direct propeller																				
	Quantity	12																				
	Air flow rate	Nom.	l/s	64,131	74,819	85,508				106,885				128,262	138,950	149,639		160,327				
	Speed	rpm	900																			
Sound power level (XS)	Cooling	Nom.	dBA	100	101			102			103			104								
Sound power level (XL)	Cooling	Nom.	dBA	97			98			99			100									
Sound pressure level (XS)	Cooling	Nom.	dBA	80				81				80				81						
Sound pressure level (XL)	Cooling	Nom.	dBA	76	77								78									
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																			
Refrigerant charge	Per circuit	kg	75.0	81.0	91.0	100.0	115.0	117.5	125.0	145.5	125.0	82.7	99.0	103.3	109.0	113.3	120.0					
	Per circuit	TCO ₂ Eq	107.3	115.8	130.1	143.0	164.5	168.0	178.8	208.1	178.8	118.2	141.6	147.8	155.9	162.1	171.6					
Piping connections	Evaporator water inlet/outlet (OD)	168.3mm																				
Unit	Maximum starting current	A	618	657	923	970	1,029		1,072	1,085	1,268	1,328	1,387		1,430	1,472	1,486					
	Nominal running current (RLA)	Cooling	A	387	423	463	511	559	607	667	686	731	778	835	885	934.0	984	1,018	1,059	1,100		
	Maximum running current	A	510	561	605	672	731	811	875		929	982	1,096	1,168	1,241	1,313	1,366	1,419	1,473			
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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