



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

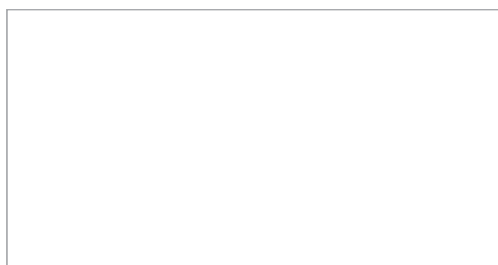
EWAD-C-XS/XL



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						
		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						
		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											3										
Fan	Type	Direct propeller																					
	Quantity	12			14			16			20			24	26	28	30						
	Air flow rate	Nom.	l/s	64,131	74,819			85,508			106,885			128,262	138,950	149,639		160,327					
	Speed	rpm																					
	Speed	900																					
Sound power level (XS)	Cooling	Nom.	dB(A)	100	101			102			103			104									
Sound power level (XL)	Cooling	Nom.	dB(A)	97			98			99			100										
Sound pressure level (XS)	Cooling	Nom.	dB(A)	80			81			80			81										
Sound pressure level (XL)	Cooling	Nom.	dB(A)	76	77											78							
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	145.5	125.0	82.7	99.0	103.3	109.0	113.3	120.0					
		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			219.1mm			273mm															
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.

Daikin Europe N.V. Naamloze Vennootschap · Zandvoordestraat 300 · 8400 Oostende · Belgium · www.daikin.eu · BE 0412 120 336 · RPR Oostende (Responsible Editor)



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