



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

EWAD-C-SS/SL

**R-134a**



Screw compressor

- › Stepless single-screw compressor
- › Large operation range (ambient temperature down to -18°C and up to 46°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-SS/SL



Cooling only				EWAD-C-SS/SL															
				650	740	830	910	970	C11	C12	C13	H14	C15	C16	C17	C18	C19	C20	
Cooling capacity	Nom.	kW		645	741	829	908	962	1,059	1,146	1,315	1,412	1,532	1,615	1,706	1,797	1,870	1,917	
Power input	Cooling	kW		223	265	302	322	355	382	408	446	479	557	586	627	669	687	721	
Capacity control	Method	Stepless																	
	Minimum capacity	%		12.5									7.0						
EER		2.89	2.80	2.74	2.82	2.71	2.77	2.81	2.95		2.75		2.72	2.69	2.72	2.69	2.72	2.66	
ESEER		3.79	3.69	3.72	3.65	3.60	3.69	3.63	3.88	3.86	3.73	3.68	3.59	3.71	3.68				
IPLV		4.32	4.17	4.18	4.25	4.16	4.17	4.21	4.42	4.28	4.18	4.15	4.24	4.19	4.24	4.19	4.21	4.21	
Dimensions	Unit	Height	mm	2,540															
		Width	mm	2,285															
		Depth	mm	6,285			7,185	8,085	8,985	10,285	11,185			12,085					
Weight (SS)	Unit	kg		5,330	5,740	5,760	6,280	6,560	7,010	7,280	7,900	10,320	10,710	10,770	11,240	11,240	11,600	11,600	
	Operation weight	kg		5,610	5,990	6,010	6,530	6,810	7,250	7,520	8,280	10,730	11,110	11,260	12,110	12,110	12,480	12,480	
Weight (SL)	Unit	kg		5,920	6,030	6,050	6,570	6,850	7,300	7,570	8,190	10,770	11,150	11,210	11,680	11,680	12,040	12,040	
	Operation weight	kg		6,200	6,280	6,300	6,820	7,100	7,540	7,810	8,570	11,170	11,550	11,700	12,560	12,560	12,920	12,920	
Water heat exchanger	Type	Single pass shell & tube																	
	Water volume	l		266	251			243	386		408	474	850						
	Water flow rate	Cooling	Nom.	l/s	30.9	35.5	39.7	43.5	46.1	50.8	55.0	62.9	67.6	73.4	77.4	81.8	86.0	89.5	91.7
	Water pressure drop	Cooling	Nom.	kPa	47	54	53	62	69	64	74	54	58	62	68	75	36	39	40
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	10			12	14	16	18	20	22			24						
	Air flow rate	Nom.		l/s	53,442	64,131		74,819	85,508	96,196		106,885	117,573			128,262			
	Speed			rpm	900														
Sound power level (SS)	Cooling	Nom.		dBA	102	100		101	102			103			104				
Sound power level (SL)	Cooling	Nom.		dBA	96		98	97	98			99	100			101			
Sound pressure level (SS)	Cooling	Nom.		dBA	81	80		81							82				
Sound pressure level (SL)	Cooling	Nom.		dBA	76			77							78				
Operation range	Water side	Cooling	Min.-Max.	°CDB	-8~15														
	Air side	Cooling	Min.-Max.	°CDB	-18~46														
Refrigerant	Type / GWP	R-134a / 1,430																	
	Circuits	2					3												
Refrigerant charge	Per circuit	kg		64.0	76.5		80.0	91.0	94.0	110.0	130.0	73.3	86.7			91.7	101.7		
	Per circuit	TCO <sub>2</sub> Eq		91.5	109.4		114.4	130.1	134.4	157.3	185.9	104.9	123.9			131.1	145.4		
Piping connections	Evaporator water inlet/outlet (OD)	168.3mm			219.1mm							273mm							
Unit	Maximum starting current	A		604	649		915	962	1,017	1,021	1,068	1,081	1,312	1,363	1,367	1,410	1,456	1,470	
	Nominal running current (RLA)	Cooling	A	366	432	492	524	577	624	667	726	773	909	959.0	1,023	1,092	1,116	1,164	
	Maximum running current	A		476	545	589	656	715	787	859	921	974	1,144	1,217	1,281	1,334	1,395	1,449	
Power supply	Phase/Frequency/Voltage	Hz/V		3~/50/400															

(1) 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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