



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

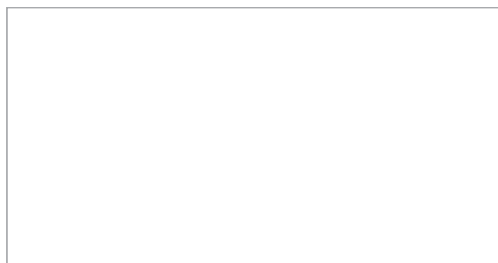
# EWAD-C-SS/SL



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	Nom.	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	2.66		
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	4.21		
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	8,280	10,320	10,710	10,770	11,240	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	12,480				
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	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	12,920				
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																
	Air side	Cooling	Min.-Max.	°CDB																
Refrigerant	Type / GWP			R-134a / 1,430																
	Circuits	Quantity		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>Eq</sub>	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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