



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

EWAD-C-PS/PL

**R-134a**



Screw compressor

- › Stepless single-screw compressor
- › Excellent part load efficiency
- › Large operation range (ambient temperature down to -18°C and up to 52°C)

- › 2 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-PS/PL



Cooling only				EWAD-C-PS/PL																																								
				820	890	980	C11	C12	C13	C14	C15	C16	820	890	980	C11	C12	C13	C14	C15	C16																							
Cooling capacity	Nom.			kW	818	886	973	1,070	1,153	1,274	1,384	1,467	1,554	818	886	973	1,070	1,153	1,274	1,384	1,467	1,554																						
Power input	Cooling	Nom.		kW	229	253	276	306	335	368	402	432	461	229	253	276	306	335	368	402	432	461																						
Capacity control	Method				Stepless																																							
	Minimum capacity			%	12.5																																							
EER					3.57	3.51	3.52	3.49	3.44	3.46	3.44	3.40	3.37	3.57	3.51	3.52	3.49	3.44	3.46	3.44	3.40	3.37																						
ESEER					4.22	4.25	4.30	4.29	4.14	4.23	4.07	4.06	4.03	4.22	4.25	4.30	4.29	4.14	4.23	4.07	4.06	4.03																						
IPLV					4.78	4.67	4.79	4.69	4.73	4.68	4.73	4.71	4.78	4.67	4.79	4.69	4.73	4.68	4.73	4.71	4.78	4.71																						
Dimensions	Unit	Height	mm	2,540																																								
		Width	mm	2,285																																								
		Depth	mm	8,985				9,885				11,185				12,085				8,985				9,885				11,185				12,085												
Weight	Unit			kg	7,530	7,660	8,290	8,550	9,390	9,730						7,820	7,950	8,580	8,840	10,380	10,720																							
	Operation weight			kg	8,130	8,700	9,330	9,590	10,380	10,720						8,420	8,990	9,620	9,880	10,670	11,010																							
Water heat exchanger	Type			Single pass shell & tube																																								
	Water flow rate	Cooling	Nom.	l/s	39.2	42.5	46.5	51.2	55.2	61.0	66.3	70.3	74.5	39.2	42.5	46.5	51.2	55.2	61.0	66.3	70.3	74.5																						
	Water pressure drop	Cooling	Nom.	kPa	58	67	31	61	70	60	70	81	88	58	67	31	61	70	60	70	81	88																						
	Water volume			l	599	1,043	1,027	995	979																																			
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			18				20				22				24				18				20				22				24												
	Air flow rate	Nom.		l/s	96,196				106,885				117,573				128,262				96,196				106,885				117,573				128,262											
	Speed			rpm	900																																							
Sound power level	Cooling	Nom.		dB(A)	101				102				103				104				98				99				100				99				100							
Sound pressure level	Cooling	Nom.		dB(A)	80				81				80				81				77				100				99				78											
Operation range	Air side	Cooling	Min.-Max.	°CDB	-18~52																																							
	Water side	Cooling	Min.-Max.	°CDB	-8~15																																							
Refrigerant	Type/GWP			R-134a/ 1,430																																								
	Circuits	Quantity		2																																								
Refrigerant charge	Per circuit			kg	102.0				115.0				120.0				137.5				140.0				102.0				115.0				120.0				137.5				140.0			
				TCO <sub>2</sub> Eq	145.9				164.5				171.6				196.6				200.2				145.9				164.5				171.6				196.6				200.2			
Piping connections	Evaporator water inlet/outlet (OD)			219.1mm				273mm				219.1mm				273mm																												
Unit	Starting current	Max		A	630	665	702	978	1,037	1,080	1,093	630	665	702	978	1,037	1,080	1,093																										
	Running current	Cooling	Nom.	A	386	424	465	511	555	614	671	711	752	386	424	465	511	555	614	671	711	752																						
		Max		A	534	577	621	670	747	819	891	945	998	534	577	621	670	747	819	891	945	998																						
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400																																							

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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