



Water cooled
screw chiller,
standard
efficiency,
standard sound

EWWD-I-SS

R-134a



Screw compressor

- › Stepless single-screw compressor
- › one, two or three truly independent refrigerant circuits
- › Standard electronic expansion valve
- › DX shell and tube evaporator – one pass refrigerant side to minimize pressure drops
- › Partial and total heat recovery option available

EWWD-I-SS



Heating only & Cooling only				EWWD-I-SS																					
				340	400	460	550	650	700	800	850	900	950	C10	C12	C13	C14	C15	C16	C17	C18				
Cooling capacity	Nom.			kW			332	392	458	536	637	703	779	841	907	982	1024	1,151	1,200	1,270	1,341	1,395	1,449	1,503	
Heating capacity	Nom.			kW			405	481	562	660	783	863	955	1,032	1,112	1,207	1,267	1,412	1,475	1,560	1,648	1,721	1,793	1,866	
Power input	Cooling	Nom.		kW			73.5	88.6	104	124	146	160	176	191	205	225	243	262	275	290	307	325	344	363	
	Heating	Nom.		kW			73.5	88.6	104	124	146	160	176	191	205	225	243	262	275	290	307	325	344	363	
Capacity control	Method			Stepless																					
	Minimum capacity			%			25.0						12.5						8.3						
EER							4.51	4.43	4.39	4.31	4.37	4.38	4.41	4.40	4.42	4.37	4.22	4.40	4.36	4.38	4.37	4.29	4.21	4.14	
ESEER							4.55	4.46	4.44	4.37	4.99	5.18	5.00	5.13	4.92	5.05	4.82	4.96	5.00	4.99	5.00	4.91	4.79		
COP							5.51	5.43	5.39	5.31	5.37	5.38	5.41	5.40	5.42	5.37	5.22	5.40	5.36	5.38	5.37	5.29	5.21	5.14	
IPLV							5.41	5.28	5.26	5.19	5.83	6.27	5.81	6.16	5.76	5.90	5.64	5.71	5.74	5.76	5.74	5.65	5.45		
Dimensions	Unit	Height		mm			1,821						2,103						2,323						
		Width		mm			1,466						1,350						2,130						
		Depth		mm			3,298						4,116						4,439						
Weight	Unit			kg			2,150	2,160	2,179	2,224	3,909	3,927	3,945	3,971	3,996	4,080	4,092	6,079	6,097	6,136	6,174	6,192	6,210	6,228	
	Operation weight			kg			2,380	2,396	2,410	2,457	4,217	4,228	4,243	4,262	4,288	4,369	4,386	6,628	6,646	6,670	6,699	6,717	6,735	6,761	
Water heat exchanger - evaporator	Type			Single pass shell and tube																					
	Water volume			l			193	183	172	271	263	256	248	241	233	472	504	489	472						
	Water pressure drop	Cooling	Nom.		kPa			37	50	54	62	55	44	57	53	44	54	39	52	55	46	57	62	66	71
Heating		Nom.		kPa			37	50	54	62	55	44	57	53	44	54	39	52	55	46	57	62	66	71	
Compressor	Type			Single screw compressor																					
	Quantity						1						2						3						
Sound power level	Cooling	Nom.		dBA			94	97						98	99	100			101	103					
Sound pressure level	Cooling	Nom.		dBA			75	76	78			79	80	81			80	81	83						
Operation range	Evaporator	Cooling	Min.		°CDB			-8																	
			Max.		°CDB			15																	
	Condenser	Cooling	Min.		°CDB			20																	
			Max.		°CDB			55																	
Refrigerant	Type/GWP			R-134a/ 1,430																					
	Circuits			Quantity			1						2						3						
Refrigerant charge	Per circuit			kg			54.0	52.0	60.0	55.0	60.0	75.0	55.0	50.0	52.0	51.7	51.3	51.0	50.7	50.3	58.0				
	Per circuit			TCO ₂ Eq			77.2	74.4	85.8	78.7	85.8	107.3	78.7	71.5	74.4	73.9	73.4	72.9	72.5	72.0	82.9				
Piping connections	Evaporator water inlet/outlet (OD)			168.3mm																					
	Condenser water inlet/outlet (OD)			5"																					
Unit	Starting current			Max			A	330	464			493	627	650	681	703	836	867	898			920	942		
	Running current	Cooling	Nom.		A			119	145	166	196	236	262	288	310	329	355	382	431	450	470	493	520	547	574
			Max		A			204	233	271	299	407	436	465	504	542	570	597	698	737	775	814	841	868	896
Power supply	Phase/Frequency/Voltage			Hz/V			3~/50/400																		

Cooling: entering evaporator water temp. 12°C; leaving evaporator water temp. 7°C; entering condenser water temp. 30°C; leaving condenser water 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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