



EWAD-D-SS



MicroTech III

- > Dual refrigerant circuit with stepless single-screw compressor
- > **Standard sound level configuration:** condenser fan rotating at 890 rpm, rubber antivibration under compressor
- > **Low sound level configuration:** condenser fan rotating at 900 rpm (EWAD180-370D-SL) and 705 rpm (EWAD400-530D-SL), rubber anti-vibration under compressor
- > Stepless single-screw compressor
- > Optimised for use with R-134a
- > Large operation range (ambient temperature down to -18°C)
- > MicroTech III controller with superior control logic and easy interface

Cooling only

Standard efficiency Standard sound

EWAD-D-SS				390	440	470	510	530	560	580	
Cooling capacity	Nom.		kW	388	435	463	500	529	553	575	
Power input	Cooling	Nom.	kW	154	165	169	186	196	207	199	
Capacity control	Method	Stepless									
	Minimum capacity		%	13							
EER				2.52	2.63	2.74	2.70	2.67	2.89		
ESEER				3.24	3.42	3.36	3.38	3.37	3.40	3.26	
Dimensions	Unit	HeightxWidthxDepth	mm	2,223x2,234x3,139							
Weight	Unit		kg	2,960	4,030	4,220	4,230	4,235			
	Operation weight		kg	3,090	4,195	4,395					
Water heat exchanger	Type	Single pass shell & tube									
	Water volume		l	130	165	175	165	160			
	Nominal water flow	Cooling	l/s	18.6	20.8	22.2	24.0	25.4	26.5	27.6	
	Nominal water pressure drop	Cooling	Heat exchanger	kPa	46	38	67	47	52	57	51
Air heat exchanger	Type	High efficiency fin and tube type with integral subcooler									
Compressor	Type	Semi-hermetic single screw compressor									
	Quantity	asymmetric single screw compressor									
Fan	Type	Direct propeller									
	Quantity	6			8			8			
	Air flow rate	Nom.	l/s	32,772	31,729	43,696	42,306				
	Speed		rpm	890							
Sound power level	Cooling	Nom.	dBA	96	97	98	99				
Sound pressure level	Cooling	Nom.	dBA	77				79			
Operation range	Water side	Cooling	Min.~Max.	-15~-15							
	Air side	Cooling	Min.~Max.	-18~-48							
Refrigerant	Type	R-134a									
	Circuits	Quantity		2							
Refrigerant circuit	Charge		kg	56	60	70	76	82	87	92	
Piping connections	Evaporator water inlet/outlet (OD)	5.5"									
Power supply	Phase/Frequency/Voltage		Hz/V	3~/50/400							



Cooling only

Standard efficiency Low sound

EWAD-D-SL				180	200	230	250	260	280	300	320	370	400	440	480	510	530						
Cooling capacity	Nom.			kW			183	197	224	244	260	274	297	320	368	402	438	475	503	531			
	Power input	Cooling	Nom.	kW			82.0	80.2	85.6	94.4	102	109	121	125	135	171	172	188	205	197			
Capacity control	Method			Stepless																			
	Minimum capacity			%			13																
EER				2.24	2.46	2.62	2.58	2.54	2.50	2.46	2.56	2.72	2.36	2.55	2.53	2.46	2.70						
ESEER				2.91	3.04	3.15	3.08	3.12	3.08	3.05	3.10	3.23	3.49	3.48	3.41	3.51	3.62						
Dimensions	Unit	HeightxWidthxDepth		mm			2,355x2,234x2,239			2,355x2,234x3,139			2,355x2,234x4,040			2,223x2,234x4,040							
Weight	Unit			kg			2,475	2,470	2,860			3,187			4,030	4,220	4,230		4,235				
	Operation weight			kg			2,500			2,960			3,300			4,195	4,395						
Water heat exchanger	Type			Plate heat exchanger			Single pass shell & tube																
	Water volume			l			25	30	100			130			165	170		165	160				
	Nominal water flow			Cooling	l/s			8.8	9.4	10.7	11.7	12.5	13.1	14.2	15.3	17.7	19.3	21.0	22.8	24.1	25.4		
	Nominal water pressure drop			Cooling	Heat exchanger			kPa			29	22	58	49	54	59	60	55	67	48	62	54	48
Air heat exchanger	Type			High efficiency fin and tube type with integral subcooler																			
Compressor	Type			Semi-hermetic single screw compressor												asymmetric single screw compressor							
	Quantity			2																			
Fan	Type			Direct propeller																			
	Quantity			4				6				8				6				8			
	Air flow rate			Nom.			l/s			15,295	14,868	22,943		22,623	22,302		30,591		24,432		33,494		32,576
	Speed			rpm			900																
Sound power level	Cooling	Nom.		dBA			94				95	97	94				96						
Sound pressure level	Cooling	Nom.		dBA			75																
Operation range	Water side			Cooling	Min.~Max. °CDB			-15~-15															
	Air side			Cooling	Min.~Max. °CDB			-18~-48															
Refrigerant	Type			R-134a																			
	Quantity			2																			
Refrigerant circuit	Charge			kg			36	42	48	50	54	58			66	70	76	82	84	86			
Piping connections	Evaporator water inlet/outlet (OD)			3"			4"			5"													
Power supply	Phase/Frequency/Voltage			Hz/V																			
				3~/50/400																			