



EWAD140,160E-SS
EWAD130,160E-SL



MicroTech III

- > One refrigerant circuit with single screw compressor
- > Compact design with brazed plate heat exchanger
- > Large operation range (ambient temperature down to -18°C)
- > Water supply down to -15°C

Cooling only

Standard efficiency Standard sound

EWAD-E-SS				100	120	140	160	180	210	260	310	360	410	
Cooling capacity	Nom.		kW	101	121	138	163	183	213	255	306	359	411	
Power input	Cooling	Nom.	kW	39.0	47.5	53.9	60.9	69.0	72.4	87.8	112.1	134.3	147	
Capacity control	Method	Stepless												
	Minimum capacity		%	25										
EER				2.58	2.54	2.55	2.67	2.64	2.95	2.90	2.73	2.67	2.80	
ESEER				2.84		2.67	2.86	2.75	2.96	3.07	2.94	3.11	3.22	
Dimensions	Unit	HeightxWidthxDepth	mm	2,273x1,292x2,165			2,273x1,292x3,065			2,273x1,292x3,965				
Weight	Unit		kg	1,684			1,861			2,086				
	Operation weight		kg	1,699			1,881			2,116				
Water heat exchanger	Type	Plate heat exchanger												
	Water volume		l	12	15	17	20	24	30	25	30	36	44	
	Nominal water flow	Cooling	l/s	4.8	5.8	6.6	7.8	8.7	10.2	12.2	14.6	17.2	19.7	
	Nominal water pressure drop	Cooling	Heat exchanger	kPa	24	25	23	24	22	21	47	48	45	
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	1												
Fan	Type	Direct propeller												
	Quantity	2			3			4			6			
	Air flow rate	Nom.	l/s	10,924	10,576	16,386	15,865	21,848	21,153	32,772	31,729			
	Speed		rpm	900										
Sound power level	Cooling	Nom.	dBA	92				93		94			95	
Sound pressure level	Cooling	Nom.	dBA	74						75			76	
Operation range	Water side	Cooling	Min.-Max. °CDB	-15~-15										
	Air side	Cooling	Min.-Max. °CDB	-18~-48										
Refrigerant	Type	R-134a												
	Charge		kg	18	21	23	28	30	33	46	56	60		
	Circuits	Quantity		1										
Piping connections	Evaporator water inlet/outlet (OD)	3"												
Power supply	Phase/Frequency/Voltage		Hz/V	3~/50/400										

EWAD-E-SL



Cooling only

Standard efficiency
Low sound

EWAD-E-SL				100	120	130	160	180	210	250	300	350	400	
Cooling capacity	Nom.		kW	98	116	134	157	177	208	248	295	344	397	
	Power input	Cooling	Nom.	kW	39.2	48.3	53.4	60.8	68.3	72.8	85.4	111.2	135.0	
Capacity control	Method			Stepless										
	Minimum capacity			%										
EER				2.49	2.39	2.50	2.57	2.59	2.86	2.90	2.65	2.55	2.62	
ESEER				2.92	2.89	2.78	2.92	3.00	3.24	3.41	3.28	3.22	3.33	
Dimensions	Unit	HeightxWidthxDepth		mm		2,273x1,292x2,165		2,273x1,292x3,065		2,273x1,292x3,965		2,223x2,236x3,070		
Weight	Unit		kg	1,784		1,961		2,186		3,029				
	Operation weight			kg		1,799		1,981		2,216				
Water heat exchanger	Type			Plate heat exchanger										
	Water volume		l	12	15	17	20	24	30	25	30	36	44	
	Nominal water flow		Cooling	l/s	4.7	5.5	6.4	7.5	8.4	10.0	11.9	14.1	16.5	19.0
	Nominal water pressure drop		Cooling	Heat exchanger	kPa		23		22		23		45	
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			1										
Fan	Type			Direct propeller										
	Quantity			2		3		4		6				
	Air flow rate		Nom.	l/s	8,373	8,144	12,560	12,216	16,747	16,288	25,120		24,432	
	Speed			rpm										
Sound power level	Cooling	Nom.		89		90		92				93		
Sound pressure level	Cooling	Nom.		71				73				74		
Operation range	Water side		Cooling	Min.~Max.	°CDB									
	Air side		Cooling	Min.~Max.	°CDB									
Refrigerant	Type			R-134a										
	Charge			kg		18	21	23	28	30	33	46	56	60
	Circuits			Quantity			1							
Piping connections	Evaporator water inlet/outlet (OD)			3"										
Power supply	Phase/Frequency/Voltage			Hz/V										