DAIKIN

CLIMATE DESIGN

Chillers

The ultimate in reliability and flexibility

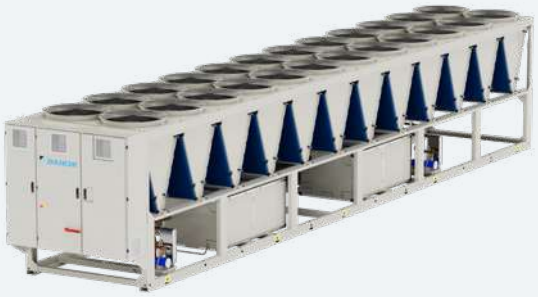
Inverter screw cooling only with BLU efficiency. Standard sound.

- Environmentally conscious HFC134a – the most thermodynamically efficient refrigerant for air cooled applications
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,950 kW
- New single screw compressor geometry allowing performance optimization
- Refrigerant cooled inverter mounted on compressor all across the range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Performance monitoring
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

					EWAD-TZBSD	275	320	345	400	470	510	525
SEER						4.517	4.637	4.636	4.829	4.809	4.561	4.73
Cooling capacity	Nom.			kW		274.8	316.9	346	418.5	467	512.6	520.7
Power input	Cooling	Nom.		kW		91.31	100.1	115.5	136.4	159.9	171	167.6
Capacity control	Method					Stepless						
	Minimum capacity			%		22	19	17	22	23	11	22
EER						3	3.2	3	3.1	2.9	3	3.1
IPLV						4.4	4.6		4.8		4.4	4.7
Dimensions	Unit	Height		mm		2,553						
		Width		mm		2,238						
		Depth		mm		2,560	3,640				4,720	
Weight	Unit			kg		2,602	3,084		3,486		4,212	4,032
	Operation weight			kg		2,677	3,169		3,583.7	3,593.7	4,552	4,160.1
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					1					2	1
Fan	Type					Direct propeller						
	Quantity					4	6				8	
	Air flow rate	Cooling	Nom.	l/s		25,490	38,240				50,980	50,990
Sound power level	Cooling	Nom.		dBA		97	98	100	97		99	98
Sound pressure level	Cooling	Nom.		dBA		78		80	78	77	79	77
Operation range	Air side	Cooling	Min.~Max.	°CDB		5 ~46						
Refrigerant	Type/GWP					R-134a/1,430						
	Charge			kg		35	45		55	65	70	
	Circuits	Quantity				1					2	1
Piping connections	Evaporator water inlet/outlet (OD)					88.9mm			139.7mm		168.3mm	139.7mm
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		179.1	196.2	217.6	248.4	283.5	336.9	298.8
		Max		A		220	262	284	346	362	411	400
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						

					EWAD-TZBSD	545	570	580	625	630	670	755
SEER						4.55	4.552	4.711	4.65	4.556	4.564	4.917
Cooling capacity	Nom.			kW		543.7	573.2	574.7	622.2	630.9	674	753.1
Power input	Cooling	Nom.		kW		188.4	206	198.2	230.6	216.2	242.8	231.7
Capacity control	Method					Stepless						
	Minimum capacity			%		10		19	17	10		13
EER						2.9	2.8	2.9	2.7	2.9	2.8	3.3
IPLV						4.4		4.7		4.5		4.9
Dimensions	Unit	Height		mm		2,553						
		Width		mm		2,238						
		Depth		mm		4,720				5,800		6,880
Weight	Unit			kg		4,212		4,032		4,695		5,670
	Operation weight			kg		4,557	4,562	4,170.1	4,175.1	5,035	5,045	6,055
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					2		1		2		
Fan	Type					Direct propeller						
	Quantity					8				10		12
	Air flow rate	Cooling	Nom.	l/s		50,980		50,990		63,730		76,480
Sound power level	Cooling	Nom.		dBA		99	100	98	101		102	99
Sound pressure level	Cooling	Nom.		dBA		79	80	78	80		82	78
Operation range	Air side	Cooling	Min.~Max.	°CDB		5 ~46						
Refrigerant	Type/GWP					R-134a/1,430						
	Charge			kg		75	80		85		95	105
	Circuits	Quantity				2		1		2		
Piping connections	Evaporator water inlet/outlet (OD)					168.3mm		139.7mm		168.3mm		
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		367.3	392.4	344.2	392.3	412.1	450	434.7
		Max		A		440	471	457	464	512	556	600
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						

MicroTech 4



EWAD_H_S-TZ-D

					EWAD-TZBSD	830	915	C10	H10	H11	C12	C13
SEER						4.879	4.901	4.855	4.797	4.936	4.942	4.906
Cooling capacity	Nom.			kW		825.6	916.8	997.9	1,092	1,168	1,238	1,332
Power input	Cooling	Nom.		kW		267.5	298.4	347.8	369.7	387.5	409.9	447
Capacity control	Method					Stepless						
	Minimum capacity			%		11	13	11	10			
EER						3.1		2.9	3			
IPLV						4.8	4.9	4.8	4.9			4.8
Dimensions	Unit	Height		mm		2,553						
		Width		mm		2,238						
		Depth		mm		6,880			7,960	9,040	10,120	11,200
Weight	Unit			kg		5,670	6,142		6,816	7,297	7,779	8,260
	Operation weight			kg		6,065	6,748	6,763	7,523	8,014	8,506	9,002
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					2						
Fan	Type					Direct propeller						
	Quantity					12			14	16	18	20
	Air flow rate	Cooling	Nom.	l/s		76,480			89,230	101,980	114,720	127,460
Sound power level	Cooling	Nom.		dBA		100	99	100	101		102	104
Sound pressure level	Cooling	Nom.		dBA		79	78	79			80	81
Operation range	Air side	Cooling	Min.~Max.	°CDB		5 ~46						
Refrigerant	Type/GWP					R-134a/1,430						
	Charge			kg		115	125	140	150	160	170	185
	Circuits	Quantity				2						
Piping connections	Evaporator water inlet/outlet (OD)					168.3mm	219.1mm					
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		488.5	536.5	610.2	645.8	674.8	710.6	767.8
		Max		A		668		751	817	884	930	948
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						

					EWAD-TZBSD	C14	C15	H16	H17	H18	H19
SEER						4.849	4.858	5.044	4.995	4.997	4.979
Cooling capacity	Nom.			kW		1,405	1,534	1,665	1,760	1,876	1,954
Power input	Cooling	Nom.		kW		494.1	531.7	546.3	608.6	659.1	730.3
Capacity control	Method					Stepless					
	Minimum capacity			%		10		13	12	11	10
EER						2.8	2.9	3	2.9	2.8	2.7
IPLV						4.7		5.3		5.2	
Dimensions	Unit	Height		mm		2,553					
		Width		mm		2,238					
		Depth		mm		11,200	12,280			13,360	
Weight	Unit			kg		8,581	9,920	10,323		10,805	
	Operation weight			kg		9,333	11,146	11,564	11,579	12,076	12,086
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					2					
Fan	Type					Direct propeller					
	Quantity					20	22			24	
	Air flow rate	Cooling	Nom.	l/s		127,460	140,210			152,960	
Sound power level	Cooling	Nom.		dBA		105	106	104	105	106	107
Sound pressure level	Cooling	Nom.		dBA		82	83	81	82	83	84
Operation range	Air side	Cooling	Min.~Max.	°CDB		5 ~46					
Refrigerant	Type/GWP					R-134a/1,430					
	Charge			kg		195	215	230	245	260	270
	Circuits	Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)					219.1mm	273mm				
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		837.3	899.1	919.5	1,011	1,088	1,193
		Max		A		1,120	1,200	1,227	1,340	1,475	1,608
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400					

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					EWAD-TZSSD	285	325	380	430	495	520	535
SEER						5.551	5.737	5.636	5.741	5.434	5.281	5.659
Cooling capacity	Nom.			kW		283.6	327.3	360.3	426.8	490.9	522.4	530.6
Power input	Cooling	Nom.		kW		84.44	98.36	1128	131	1517	162.1	161
Capacity control	Method					Stepless						
	Minimum capacity			%		22	19	17	22	23	11	22
EER						3.4	3.3	3.2	3.3	3.2		3.3
IPLV						5.7	5.8	5.7	6	5.8	5.4	6
Dimensions	Unit	Height		mm		2,553						
		Width		mm		2,238						
		Depth		mm		3,640	4,720				5,800	
Weight	Unit			kg		3,084	3,604		3,968	4,032	4,693	4,513
	Operation weight			kg		3,164	3,697	3,702	4,070.7	4,155.1	5,033	4,646.1
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					1					2	1
Fan	Type					Direct propeller						
	Quantity					6	8				10	
	Air flow rate	Cooling	Nom.	l/s		38,240	50,990				63,730	
Sound power level	Cooling	Nom.		dBA		98		100	98	97	99	98
Sound pressure level	Cooling	Nom.		dBA		78		80	77		79	77
Operation range	Air side	Cooling	Min.~Max.	°CDB		5 ~46					-20 ~46	5 ~46
Refrigerant	Type/GWP					R-134a/1,430						
	Charge			kg		40	45	50	60	65	70	75
	Circuits	Quantity				1					2	1
Piping connections	Evaporator water inlet/outlet (OD)					88.9mm			139.7mm		168.3mm	139.7mm
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		174.3	202.4	227.4	249.9	281.8	332.1	300.1
		Max		A		231	272	294	357	372	421	411
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						

					EWAD-TZSSD	555	585	595	645	650	705	760
SEER						5.237	5.099	5.556	5.291	5.535	5.2	5.547
Cooling capacity	Nom.			kW		555.8	586.7	590	646.3	642.1	706.1	760.3
Power input	Cooling	Nom.		kW		177.6	194.1	188.4	202.9	218.2	235.4	225.2
Capacity control	Method					Stepless						
	Minimum capacity			%		10		19	10	17	10	13
EER						3.1	3	3.1	3.2	2.9	3	3.4
IPLV						5.3	5.2	5.8	5.4	5.6	5.3	6
Dimensions	Unit	Height		mm		2,553						
		Width		mm		2,238						
		Depth		mm		5,800			6,880	5,800	6,880	7,960
Weight	Unit			kg		4,693		4,513	5,177	4,513	5,177	6,151
	Operation weight			kg		5,038	5,043	4,651.1	5,522	4,661.1	5,527	6,536
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					2		1	2	1	2	
Fan	Type					Direct propeller						
	Quantity					10			12	10	12	14
	Air flow rate	Cooling	Nom.	l/s		63,730			76,480	63,730	76,480	89,230
Sound power level	Cooling	Nom.		dBA		99	101	98	101		103	99
Sound pressure level	Cooling	Nom.		dBA		79	80	78	80		82	78
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46		5 ~46	-20 ~46	5 ~46	-20 ~46	
Refrigerant	Type/GWP					R-134a/1,430						
	Charge			kg		75	80		90		95	105
	Circuits	Quantity				2		1	2	1	2	
Piping connections	Evaporator water inlet/outlet (OD)					168.3mm		139.7mm	168.3mm	139.7mm	168.3mm	
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		359.1	387.7	340.8	407	384.9	451.6	442.9
		Max		A		450	481	467	523	474	566	610
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						

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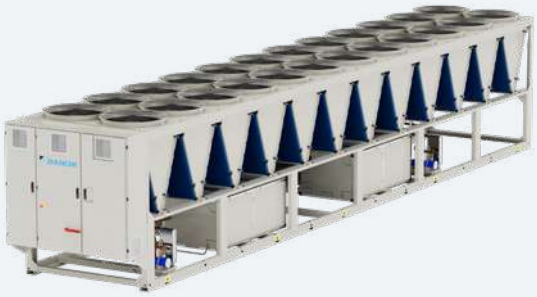

EWAD_H_S-TZ-D

					EWAD-TZSSD	835	960	C10	H10	H11	H12	H13
SEER						5.714	5.615	5.536	5.55	5.562	5.714	5.673
Cooling capacity	Nom.			kW		837.7	960.2	1,017	1,064	1,168	1,281	1,372
Power input	Cooling	Nom.		kW		258.7	301.2	332.2	351.6	384.5	412.6	451.9
Capacity control	Method					Stepless						
	Minimum capacity			%		11	12	11			10	
EER						3.2		3.1	3		3.1	3
IPLV						5.8	5.7	5.6			5.7	
Dimensions	Unit	Height		mm		2,553						
		Width		mm		2,238						
		Depth		mm		7,960				9,040	11,200	12,280
Weight	Unit			kg		6,151	6,623		6,816	7,297	8,260	8,742
	Operation weight			kg		6,546	7,239	7,244	7,518	8,014	8,992	9,489
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					2						
Fan	Type					Direct propeller						
	Quantity					14				16	20	22
	Air flow rate	Cooling	Nom.	l/s		89,230				101,908	127,460	140,210
Sound power level	Cooling	Nom.		dBA		100			101		102	104
Sound pressure level	Cooling	Nom.		dBA		79	78	79			80	81
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46						
Refrigerant	Type/GWP					R-134a/1,430						
	Charge			kg		115	135	140	145	160	175	190
	Circuits	Quantity				2						
Piping connections	Evaporator water inlet/outlet (OD)					168.3mm	219.1mm					
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		489.7	555	601.4	630.5	683.6	733.8	796.2
		Max		A		679	706	761	789	884	948	
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						

					EWAD-TZSSD	H14	H15	H16	H17	H18	H19
SEER						5.529	5.707	5.633	5.608	5.527	5.445
Cooling capacity	Nom.			kW		1,482	1,562	1,665	1,787	1,876	1,954
Power input	Cooling	Nom.		kW		500.2	485.4	542.2	589.4	654.5	725.7
Capacity control	Method					Stepless					
	Minimum capacity			%		10	14	13	12	11	10
EER						3	3.2	3.1	3	2.9	2.7
IPLV						5.6	6.1	6	5.9	5.8	5.7
Dimensions	Unit	Height		mm		2,553					
		Width		mm		2,238					
		Depth		mm		12,280				13,360	
Weight	Unit			kg		9,920	10,323			10,805	
	Operation weight			kg		11,136	11,549	11,564	12,066	12,076	12,086
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					2					
Fan	Type					Direct propeller					
	Quantity					22				24	
	Air flow rate	Cooling	Nom.	l/s		140,210				152,960	
Sound power level	Cooling	Nom.		dBA		105	103	104	105	106	107
Sound pressure level	Cooling	Nom.		dBA		82	80	81	82	83	84
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46					
Refrigerant	Type/GWP					R-134a/1,430					
	Charge			kg		205	215	230	250	260	270
	Circuits	Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)					273mm					
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		871.1	848	931.7	1,005	1,101	1,206
		Max		A		1,156	1,124	1,227	1,351	1,475	1,608
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400					

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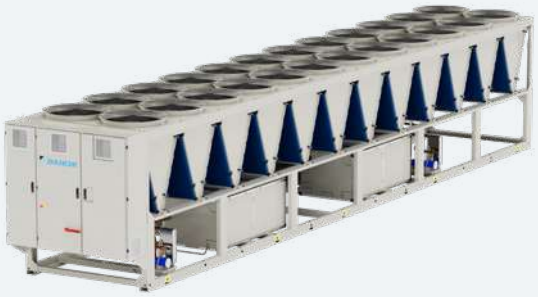
EWAD-TZXSD					295	345	380	440	515	525	565
SEER					5.605	6.007	5.961	6.165	6.019	6.002	6.251
Cooling capacity	Nom.			kW	294.4	344.4	378	434.8	507.9	524.3	560.5
Power input	Cooling	Nom.		kW	89.4	102.5	116.8	120.6	150	146.6	162
Capacity control	Method				Stepless						
	Minimum capacity			%	22	19	17	28	23	13	22
EER					3.3	3.4	3.2	3.6	3.4	3.6	3.5
IPLV					6	6.3	6.1	6.6	6.5	6.3	6.7
Dimensions	Unit	Height		mm	2,553						
		Width		mm	2,238						
		Depth		mm	3,640	4,720		5,800		6,880	
Weight	Unit			kg	3,255	3,775		4,569		5,348	5,136
	Operation weight			kg	3,335	3,868	3,873	4,687.1	4,697.1	5,673	5,287.3
Air heat exchanger	Type				Microchannel						
Compressor	Type				Screw compressor						
	Quantity				1					2	1
Fan	Type				Direct propeller						
	Quantity				6	8		10		12	
	Air flow rate	Cooling	Nom.	l/s	33,930	45,240		56,540		67,860	68,280
Sound power level	Cooling	Nom.		dBA	97	98	103	96	97	100	
Sound pressure level	Cooling	Nom.		dBA	80	82	83	75	76	79	76
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46						
Refrigerant	Type/GWP				R-134a/1,430						
	Charge			kg	40	45	50	60	70		75
	Circuits	Quantity			1					2	1
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm			139.7mm		168.3mm	139.7mm
Unit	Starting current	Max		A	0						
	Running current	Cooling	Nom.	A	188.5	216.8	235.8	247.6	291.7	319.1	316.3
		Max		A	224	261	289	314	342	389	404
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400						

EWAD-TZXSD					565	610	635	670	705	725	760
SEER					5.937	5.999	6.146	5.891	5.552	5.94	5.308
Cooling capacity	Nom.			kW	565.9	610.7	629	668.1	701	724	757.3
Power input	Cooling	Nom.		kW	163.3	177	190.8	201.3	207.2	219.5	233.1
Capacity control	Method				Stepless						
	Minimum capacity			%	12	11	19	10	30	10	28
EER					3.5		3.3		3.4	3.3	3.2
IPLV					6.1	6.2	6.5	6.1	5.7	6.2	5.6
Dimensions	Unit	Height		mm	2,553						
		Width		mm	2,238						
		Depth		mm	6,880	7,960	6,880	7,960	6,880	7,960	6,880
Weight	Unit			kg	5,348	5,829	5,136	5,829	5,805	5,946	5,805
	Operation weight			kg	5,683	6,169	5,297.3	6,174	5,976.3	6,344	5,986.3
Air heat exchanger	Type				Microchannel						
Compressor	Type				Screw compressor						
	Quantity				2		1	2	1	2	1
Fan	Type				Direct propeller						
	Quantity				12	14	12	14	12	14	12
	Air flow rate	Cooling	Nom.	l/s	67,860	79,170	68,280	79,170	68,280	79,170	68,280
Sound power level	Cooling	Nom.		dBA	100	101	105	101	99	102	100
Sound pressure level	Cooling	Nom.		dBA	80	81	77	83	78	84	79
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46						
Refrigerant	Type/GWP				R-134a/1,430						
	Charge			kg	80	85		90	95	100	105
	Circuits	Quantity			2		1	2	1	2	1
Piping connections	Evaporator water inlet/outlet (OD)				168.3mm		139.7mm	168.3mm	139.7mm	168.3mm	139.7mm
Unit	Starting current	Max		A	0						
	Running current	Cooling	Nom.	A	348.1	378.7	359.4	420.8	383.5	443	421.6
		Max		A	429	457	452	498	520	535	568
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400						

MicroTech 4



EWAD_H_S-TZ-D

					EWAD-TZXSD	805	880	950	C10	H10	H11	C12
SEER						6.088	6.355	6.192	6.365	6.186	6.313	6.217
Cooling capacity	Nom.			kW		802.3	877.7	949.4	993.6	1,062	1,129	1,194
Power input	Cooling	Nom.		kW		233.2	250.8	282.1	292.3	325.1	336.7	370.1
Capacity control	Method					Stepless						
	Minimum capacity			%		10	14	13	12	11		10
EER						3.4	3.5	3.4		3.3	3.4	3.2
IPLV						6.4	6.6	6.4	6.5	6.4	6.5	6.4
Dimensions	Unit	Height		mm		2,553						
		Width		mm		2,238						
		Depth		mm		9,040			10,120		11,200	
Weight	Unit			kg		6,904	7,160		7,642		8,316	
	Operation weight			kg		7,495	7,761	7,771	8,258	8,268	9,028	9,038
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					2						
Fan	Type					Direct propeller						
	Quantity					16			18		20	
	Air flow rate	Cooling	Nom.	l/s		90,480			101,780		113,080	
Sound power level	Cooling	Nom.		dBA		105	98	100	101	102	103	105
Sound pressure level	Cooling	Nom.		dBA		84	76	77			78	
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46						
Refrigerant	Type/GWP					R-134a/1,430						
	Charge			kg		110	120	130	135	145	155	165
	Circuits	Quantity				2						
Piping connections	Evaporator water inlet/outlet (OD)					219.1mm						
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		470.4	496.7	543.6	565	613.9	637.5	687
		Max		A		573	626	683	720	782	744	803
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						

					EWAD-TZXSD	H12	H13	H14	H15	H16	H17
SEER						6.126	6.14	5.896	5.807	5.723	5.629
Cooling capacity	Nom.			kW		1,286	1,359	1,454	1,567	1,671	1,770
Power input	Cooling	Nom.		kW		402.4	425.5	419.5	472.2	528.4	590.4
Capacity control	Method					Stepless					
	Minimum capacity			%		10		15	14	13	12
EER						3.2		3.5	3.3	3.2	3
IPLV						6.3		6.1	6.3	6.2	6
Dimensions	Unit	Height		mm		2,553					
		Width		mm		2,238					
		Depth		mm		11,200	12,280		13,360		
Weight	Unit			kg		8,316	9,655		10,805		
	Operation weight			kg		9,053	10,856	12,016	12,031	12,046	12,061
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					2					
Fan	Type					Direct propeller					
	Quantity					20	22		24		
	Air flow rate	Cooling	Nom.	l/s		113,080	124,390		135,700		
Sound power level	Cooling	Nom.		dBA		108	106	102	103	104	105
Sound pressure level	Cooling	Nom.		dBA		78	79		80	81	
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46					
Refrigerant	Type/GWP					R-134a/1,430					
	Charge			kg		180	190	200	215	230	245
	Circuits	Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)					219.1mm	273mm				
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		737.2	777.9	774.1	852	934.8	1,026
		Max		A		851	899	997	1,103	1,217	1,330
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400					

Inverter screw with GOLD efficiency. Reduced sound.

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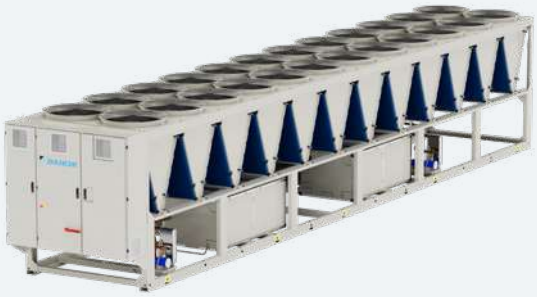
					EWAD-TZXRD	295	345	380	440	515	525	565
SEER						5.507	5.938	5.866	6.042	5.901	6.037	6.159
Cooling capacity	Nom.			kW		290.7	340.9	373.4	431	502.3	518.8	555.4
Power input	Cooling	Nom.		kW		89.12	101.1	116.3	118.5	149.8	144.1	160.2
Capacity control	Method					Stepless						
	Minimum capacity			%		22	19	17	28	23	13	22
EER						3.3	3.4	3.2	3.6	3.4	3.6	3.5
IPLV						6.1	6.3	6.2	6.5		6.3	6.7
Dimensions	Unit	Height		mm		2,553						
		Width		mm		2,238						
		Depth		mm		3,640	4,720		5,800		6,880	
Weight	Unit			kg		3,375	3,895		4,689		5,468	5,256
	Operation weight			kg		3,455	3,988	3,993	4,807.1	4,817.1	5,793	5,407.3
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					1					2	1
Fan	Type					Direct propeller						
	Quantity					6	8		10		12	
	Air flow rate	Cooling	Nom.	l/s		28,330	37,770		47,210		56,660	
Sound power level	Cooling	Nom.		dBA		87	88	92	88		90	
Sound pressure level	Cooling	Nom.		dBA		68		71	67	68	69	
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46						
Refrigerant	Type/GWP					R-134a/1,430						
	Charge			kg		40	45	50	60	70		75
	Circuits	Quantity				1					2	1
Piping connections	Evaporator water inlet/outlet (OD)					88.9mm			139.7mm		168.3mm	139.7mm
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		193.6	221.9	241.5	252.5	299.5	326	323.5
		Max		A		224	261	289	314	342	389	404
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						

					EWAD-TZXRD	565	610	635	670	705	725	760
SEER						5.944	6.029	6.039	5.922	5.418	5.964	5.358
Cooling capacity	Nom.			kW		559.5	604.2	622.3	660.4	691.7	714.9	745.6
Power input	Cooling	Nom.		kW		161.7	174.5	190.5	200.1	209.3	219.2	236.6
Capacity control	Method					Stepless						
	Minimum capacity			%		12	11	19	10	30	10	28
EER						3.5		3.3				3.2
IPLV						6.2		6.6	6.1	5.8	6.2	5.8
Dimensions	Unit	Height		mm		2,553						
		Width		mm		2,238						
		Depth		mm		6,880	7,960	6,880	7,960	6,880	7,960	6,880
Weight	Unit			kg		5,468	5,949	5,256	5,949	5,925	6,066	5,925
	Operation weight			kg		5,803	6,289	5,417.3	6,294	6,096.3	6,464	6,106.3
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					2		1	2	1	2	1
Fan	Type					Direct propeller						
	Quantity					12	14	12	14	12	14	12
	Air flow rate	Cooling	Nom.	l/s		56,660	66,100	56,660	66,100	56,660	66,100	56,660
Sound power level	Cooling	Nom.		dBA		90	91	93	91	90	92	90
Sound pressure level	Cooling	Nom.		dBA		69		72	69	68	70	69
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46						
Refrigerant	Type/GWP					R-134a/1,430						
	Charge			kg		80	85		90	95	100	105
	Circuits	Quantity				2		1	2	1	2	1
Piping connections	Evaporator water inlet/outlet (OD)					168.3mm		139.7mm	168.3mm	139.7mm	168.3mm	139.7mm
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		356.7	387.5	368.6	431.6	396.2	454.1	436.4
		Max		A		429	457	452	498	520	535	568
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						

MicroTech 4



EWAD_H_S-TZ-D

					EWAD-TZXRD	805	880	950	C10	H10	H11	C12
SEER						6.169	6.363	6.179	6.354	6.217	6.34	6.191
Cooling capacity	Nom.			kW		792.9	867.7	937.7	982.6	1,049	1,117	1,179
Power input	Cooling	Nom.		kW		231.9	250.8	283.9	292.8	327.6	338	373.2
Capacity control	Method					Stepless						
	Minimum capacity			%		10	14	13	12	11		10
EER						3.4	3.5	3.3	3.4	3.2	3.3	3.2
IPLV						6.4	6.6	6.4	6.6	6.4	6.6	6.4
Dimensions	Unit	Height		mm		2,553						
		Width		mm		2,238						
		Depth		mm		9,040			10,120		11,200	
Weight	Unit			kg		7,024	7,280		7,762		8,436	
	Operation weight			kg		7,615	7,881	7,891	8,378	8,388	9,148	9,158
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					2						
Fan	Type					Direct propeller						
	Quantity					16			18		20	
	Air flow rate	Cooling	Nom.	l/s		75,540			84,980		94,420	
Sound power level	Cooling	Nom.		dBA		94	90	91	92		93	94
Sound pressure level	Cooling	Nom.		dBA		72	68	69		70		72
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46						
Refrigerant	Type/GWP					R-134a/1,430						
	Charge			kg		110	120	130	135	145	155	165
	Circuits	Quantity				2						
Piping connections	Evaporator water inlet/outlet (OD)					219.1mm						
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		481.4	509.6	559.3	580.3	632.1	655.3	707.6
		Max		A		573	626	683	720	782	744	803
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						

					EWAD-TZXRD	H12	H13	H14	H15	H16	H17
SEER						6.12	6.181	5.883	5.764	5.704	5.537
Cooling capacity	Nom.			kW		1,268	1,341	1,434	1,543	1,641	1,729
Power input	Cooling	Nom.		kW		408	430.2	424.5	480.3	539.4	603.9
Capacity control	Method					Stepless					
	Minimum capacity			%		10		15	14	13	12
EER						3.2	3.1	3.4	3.2	3	2.9
IPLV						6.4		6.1	5.9	6.2	5.8
Dimensions	Unit	Height		mm		2,553					
		Width		mm		2,238					
		Depth		mm		11,200	12,280	13,360			
Weight	Unit			kg		8,436	9,775	10,925			
	Operation weight			kg		9,173	10,976	12,136	12,151	12,166	12,181
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					2					
Fan	Type					Direct propeller					
	Quantity					20	22	24			
	Air flow rate	Cooling	Nom.	l/s		94,420	103,870	113,320			
Sound power level	Cooling	Nom.		dBA		96	95	93		94	
Sound pressure level	Cooling	Nom.		dBA		74	72	69	70		71
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46					
Refrigerant	Type/GWP					R-134a/1,430					
	Charge			kg		180	190	200	215	230	245
	Circuits	Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)					219.1mm	273mm				
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		761.7	802.5	800.7	883.2	970.5	1,066
		Max		A		851	899	997	1,103	1,217	1,330
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400					

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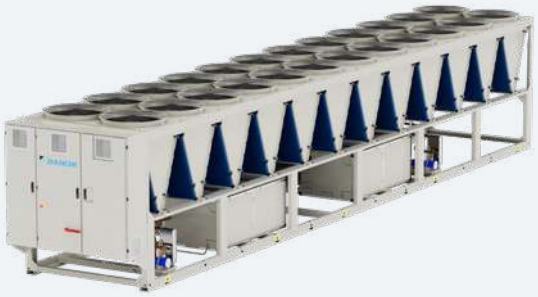
					EWAD-TZPSD	285	330	370	405	450	490
SEER						6.29	6.465	6.389	6.687	6.64	6.567
Cooling capacity	Nom.				kW	285.8	330.4	367.9	401.5	447	486.1
Power input	Cooling	Nom.			kW	77.75	92.02	106	105.2	117.3	130.3
Capacity control	Method					Stepless					
	Minimum capacity				%	23	20	18	30	28	25
EER						3.7	3.6	3.5	3.8		3.7
IPLV						6.7		6.6	7.3	7.6	7.5
Dimensions	Unit	Height			mm	2,553					
		Width			mm	2,238					
		Depth			mm	4,720	5,800		6,880		
Weight	Unit				kg	3,775	4,256		5,050	5,136	
	Operation weight				kg	3,863	4,349	4,354	5,163.1	5,272.3	5,277.3
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					1					
Fan	Type					Direct propeller					
	Quantity					8	10		12		
	Air flow rate	Cooling	Nom.		l/s	45,240	56,540		67,850		
Sound power level	Cooling	Nom.			dBA	97	98	100	95	96	98
Sound pressure level	Cooling	Nom.			dBA	78	81	82	74	75	
Operation range	Air side	Cooling	Min.~Max.		°CDB	-20 ~46					
Refrigerant	Type/GWP					R-134a/1,430					
	Charge				kg	40	45	50	55	60	65
	Circuits	Quantity				1					
Piping connections	Evaporator water inlet/outlet (OD)					88.9mm			139.7mm		
Unit	Starting current	Max			A	0					
	Running current	Cooling	Nom.		A	174	204	229	233	249	269
		Max			A	220	258	285	293	352	404
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400					

					EWAD-TZPSD	530	575	615	675	735
SEER						6.391	6.301	6.28	6.161	6.216
Cooling capacity	Nom.				kW	529.6	571.8	617.7	676.1	733.5
Power input	Cooling	Nom.			kW	143.1	158.6	171.1	194	210.7
Capacity control	Method					Stepless				
	Minimum capacity				%	13	12	11	10	
EER						3.7	3.6		3.5	
IPLV						6.7	6.6	6.5	6.4	6.5
Dimensions	Unit	Height			mm	2,553				
		Width			mm	2,238				
		Depth			mm	7,960		9,040		
Weight	Unit				kg	5,829		6,311		6,427
	Operation weight				kg	6,159	6,164	6,651	6,661	6,825
Air heat exchanger	Type					Microchannel				
Compressor	Type					Screw compressor				
	Quantity					2				
Fan	Type					Direct propeller				
	Quantity					14		16		
	Air flow rate	Cooling	Nom.		l/s	79,170		90,480		
Sound power level	Cooling	Nom.			dBA	100		101		102
Sound pressure level	Cooling	Nom.			dBA	79	80	81	83	
Operation range	Air side	Cooling	Min.~Max.		°CDB	-20 ~46				
Refrigerant	Type/GWP					R-134a/1,430				
	Charge				kg	75	80	85	95	100
	Circuits	Quantity				2				
Piping connections	Evaporator water inlet/outlet (OD)					168.3mm				
Unit	Starting current	Max			A	0				
	Running current	Cooling	Nom.		A	318	345	374	414	442
		Max			A	399	429	468	508	535
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400				

MicroTech 4



EWAD_H_S-TZ-D

					EWAD-TZPSD	810	890	960	C10	H10	H11
SEER						6.48	6.725	6.602	6.648	6.483	6.529
Cooling capacity	Nom.			kW		809.8	885.5	958.4	1,003	1,072	1,137
Power input	Cooling	Nom.		kW		226.1	242.4	271.7	281.9	312.5	325.9
Capacity control	Method					Stepless					
	Minimum capacity			%		10	14	13	12	11	
EER						3.6	3.7	3.5	3.6	3.4	3.5
IPLV						6.8	7	6.8	6.5	6.7	6.9
Dimensions	Unit	Height		mm		2,553					
		Width		mm		2,238					
		Depth		mm		10,120			11,200		12,280
Weight	Unit			kg		7,385	7,642		8,123		8,798
	Operation weight			kg		7,976	8,243	8,253	8,744	8,754	9,515
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					2					
Fan	Type					Direct propeller					
	Quantity					18			20		22
	Air flow rate	Cooling	Nom.	l/s		101,780			113,080		140,200
Sound power level	Cooling	Nom.		dBA		105	99	100	101	102	103
Sound pressure level	Cooling	Nom.		dBA		84	76			77	
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46					
Refrigerant	Type/GWP					R-134a/1,430					
	Charge			kg		110	120	130	140	150	160
	Circuits	Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)					219.1mm					
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		466	490	534	555	601	627
		Max		A		573	616	672	709	761	796
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400					

					EWAD-TZPSD	C12	H12	H13	H14	H15
SEER						6.398	6.263	6.31	5.978	5.928
Cooling capacity	Nom.			kW		1,203	1,298	1,372	1,455	1,568
Power input	Cooling	Nom.		kW		357.4	387.4	409.1	409.5	462.1
Capacity control	Method					Stepless				
	Minimum capacity			%		10			15	14
EER						3.4			3.6	3.4
IPLV						6.7	6.6		6.2	6.5
Dimensions	Unit	Height		mm		2,553				
		Width		mm		2,238				
		Depth		mm		12,280		13,360		
Weight	Unit			kg		8,798	9,655	10,136	10,805	
	Operation weight			kg		9,520	10,846	11,337	12,021	12,036
Air heat exchanger	Type					Microchannel				
Compressor	Type					Screw compressor				
	Quantity					2				
Fan	Type					Direct propeller				
	Quantity					22		24		
	Air flow rate	Cooling	Nom.	l/s		140,200		152,940		
Sound power level	Cooling	Nom.		dBA		105	108	106	102	103
Sound pressure level	Cooling	Nom.		dBA		78		79		80
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46				
Refrigerant	Type/GWP					R-134a/1,430				
	Charge			kg		165	180	190	205	220
	Circuits	Quantity				2				
Piping connections	Evaporator water inlet/outlet (OD)					219.1mm	273mm			
Unit	Starting current	Max		A		0				
	Running current	Cooling	Nom.	A		674	721	759		837
		Max		A		845	893	951	1,039	1,135
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400				

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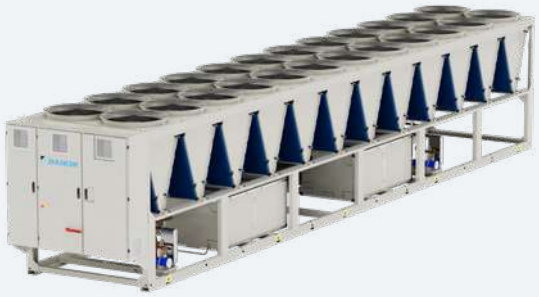
					EWAD-TZPRD	285	330	370	405	450	490
SEER						6.232	6.448	6.358	6.622	6.542	6.467
Cooling capacity	Nom.			kW		283.7	328.4	365	398.8	443.9	482.4
Power input	Cooling	Nom.		kW		75.13	88.51	103.1	101	113.6	127.2
Capacity control	Method					Stepless					
	Minimum capacity			%		23	20	18	30	28	25
EER						3.8	3.7	3.5	4	3.9	3.8
IPLV						6.7	6.8	6.6	7.2	7.5	7.4
Dimensions	Unit	Height		mm		2,553					
		Width		mm		2,238					
		Depth		mm		4,720	5,800		6,880		
Weight	Unit			kg		3,895	4,376		5,170	5,256	
	Operation weight			kg		3,983	4,469	4,474	5,283.1	5,392.3	5,397.3
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					1					
Fan	Type					Direct propeller					
	Quantity					8	10		12		
	Air flow rate	Cooling	Nom.	l/s		37,770	47,210		56,660		
Sound power level	Cooling	Nom.		dBA		88	89	90	88		89
Sound pressure level	Cooling	Nom.		dBA		68		69	67		68
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46					
Refrigerant	Type/GWP					R-134a/1,430					
	Charge			kg		40	45	50	55	60	65
	Circuits	Quantity				1					
Piping connections	Evaporator water inlet/outlet (OD)					88.9mm			139.7mm		
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		176.6	207.4	232.7	236.3	253.2	273.8
		Max		A		220	258	285	293	352	404
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400					

					EWAD-TZPRD	530	575	615	675	735
SEER						6.421	6.322	6.325	6.183	6.254
Cooling capacity	Nom.			kW		524.8	566.5	612.5	669.9	726
Power input	Cooling	Nom.		kW		139	155.2	166.8	190.7	208.2
Capacity control	Method					Stepless				
	Minimum capacity			%		13	12	11	10	
EER						3.8	3.7		3.5	
IPLV						6.7	6.6	6.5	6.4	6.5
Dimensions	Unit	Height		mm		2,553				
		Width		mm		2,238				
		Depth		mm		7,960		9,040		
Weight	Unit			kg		5,949		6,431		6,547
	Operation weight			kg		6,279	6,284	6,771	6,781	6,945
Air heat exchanger	Type					Microchannel				
Compressor	Type					Screw compressor				
	Quantity					2				
Fan	Type					Direct propeller				
	Quantity					14		16		
	Air flow rate	Cooling	Nom.	l/s		66,100		75,540		
Sound power level	Cooling	Nom.		dBA		91				92
Sound pressure level	Cooling	Nom.		dBA		69				70
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46				
Refrigerant	Type/GWP					R-134a/1,430				
	Charge			kg		75	80	85	95	100
	Circuits	Quantity				2				
Piping connections	Evaporator water inlet/outlet (OD)					168.3mm				
Unit	Starting current	Max		A		0				
	Running current	Cooling	Nom.	A		324.3	352.5	381.3	422.7	448
		Max		A		399	429	468	508	535
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400				

MicroTech 4



EWAD_H_S-TZ-D

					EWAD-TZPRD	810	890	960	C10	H10	H11
SEER						6.51	6.771	6.598	6.661	6.515	6.683
Cooling capacity	Nom.			kW		801.7	876.7	948.2	993	1,061	1,126
Power input	Cooling	Nom.		kW		222.8	240.2	271.1	280	312.2	324.7
Capacity control	Method					Stepless					
	Minimum capacity			%		10	14	13	12	11	
EER						3.6		3.5		3.4	3.5
IPLV						6.8	7.1	6.9		6.7	7
Dimensions	Unit	Height		mm		2,553					
		Width		mm		2,238					
		Depth		mm		10,120			11,200		12,280
Weight	Unit			kg		7,505	7,762		8,243		8,918
	Operation weight			kg		8,096	8,363	8,373	8,864	8,874	9,635
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					2					
Fan	Type					Direct propeller					
	Quantity					18			20		22
	Air flow rate	Cooling	Nom.	l/s		84,980			94,420		103,870
Sound power level	Cooling	Nom.		dBA		94	90	91	92		93
Sound pressure level	Cooling	Nom.		dBA		72	68	69		70	
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46					
Refrigerant	Type/GWP					R-134a/1,430					
	Charge			kg		110	120	130	140	150	160
	Circuits	Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)					219.1mm					
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		475.1	501.2	547.7	568.5	616.6	643
		Max		A		573	616	672	709	761	796
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400					

					EWAD-TZPRD	C12	H12	H13	H14	H15
SEER						6.555	6.433	6.432	6.055	5.932
Cooling capacity	Nom.			kW		1,190	1,282	1,356	1,435	1,544
Power input	Cooling	Nom.		kW		357.7	389.9	410.4	413.9	469.4
Capacity control	Method					Stepless				
	Minimum capacity			%		10			15	14
EER						3.3			3.5	3.3
IPLV						6.7		6.6	6.3	6.1
Dimensions	Unit	Height		mm		2,553				
		Width		mm		2,238				
		Depth		mm		12,280		13,360		
Weight	Unit			kg		8,918	9,775	10,256	10,925	
	Operation weight			kg		9,640	10,966	11457	12,141	12,156
Air heat exchanger	Type					Microchannel				
Compressor	Type					Screw compressor				
	Quantity					2				
Fan	Type					Direct propeller				
	Quantity					22		24		
	Air flow rate	Cooling	Nom.	l/s		103,870		113,320		
Sound power level	Cooling	Nom.		dBA		95	96	95	93	
Sound pressure level	Cooling	Nom.		dBA		72	74	72	69	70
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46				
Refrigerant	Type/GWP					R-134a/1,430				
	Charge			kg		165	180	190	205	220
	Circuits	Quantity				2				
Piping connections	Evaporator water inlet/outlet (OD)					219.1mm	273mm			
Unit	Starting current	Max		A		0				
	Running current	Cooling	Nom.	A		692.2	742.3	780.3	784.9	867
		Max		A		845	893	951	1,039	1,135
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400				

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