

Chillers

The ultimate in
reliability and flexibility



- | EWAH-TZBSD | | | | | 235 | 255 | 300 | 350 | 400 | 400 | 420 |
|----------------------|------------------------------------|----------|-----------|------|------------------|--------|-------|--------|---------|--------|-------|
| SEER | | | | | 4.491 | 4.373 | 4.355 | 4.666 | 4.428 | 4.588 | 4.601 |
| Cooling capacity | Nom. | kW | | | 235.4 | 255.6 | 301.6 | 359.8 | 398.5 | 417.2 | |
| Power input | Cooling | Nom. | kW | | | 79.49 | 92.42 | 118.2 | 117.9 | 140.7 | 151.4 |
| Capacity control | Method | | | | Stepless | | | | | | |
| | Minimum capacity | % | | | 19 | 17 | 14 | 23 | 12 | 20 | 19 |
| EER | | | | | 2.961 | 2.766 | 2.552 | 3.052 | 2.832 | | 2.755 |
| IPLV | | | | | 4.484 | 4.419 | 4.369 | 4.683 | 4.411 | 4.584 | 4.558 |
| Dimensions | Unit | Height | mm | | | 2,553 | | | | | |
| | | Width | mm | | | 2,238 | | | | | |
| | | Depth | mm | | | 2,560 | | 3,640 | 4,720 | 3,640 | |
| Weight | Unit | kg | | | 2,559 | | 2,589 | 3,486 | 3,751 | 3,486 | |
| | Operation weight | kg | | | 2,589 | 2,594 | 2,629 | 3,536 | 3,806 | 3,541 | |
| Air heat exchanger | Type | | | | Microchannel | | | | | | |
| Compressor | Type | | | | Screw compressor | | | | | | |
| Fan | Quantity | | | | 1 | | | | 2 | 1 | |
| | Type | | | | Direct propeller | | | | | | |
| | Quantity | | | | 4 | | | 6 | 8 | 6 | |
| | Air flow rate | Cooling | Nom. | l/s | 25,490 | 25,493 | | 38,240 | 50,987 | 38,240 | |
| Sound power level | Cooling | Nom. | dBA | | 97.5 | 99.8 | 101.2 | 96.7 | 97.5 | 97.6 | 97.7 |
| Sound pressure level | Cooling | Nom. | dBA | | 78.41 | 80.65 | 82.11 | 76.96 | 77.19 | 77.88 | 78 |
| Operation range | Air side | Cooling | Min.~Max. | °CDB | 5 ~46 | | | | | | |
| Refrigerant | Type/GWP | | | | R-1234(ze)/7 | | | | | | |
| | Charge | kg | | | 30 | 35 | 40 | 50 | 55 | | |
| | Circuits | Quantity | | | | 1 | | | 2 | 1 | |
| Piping connections | Evaporator water inlet/outlet (OD) | | | | 88.9mm | | | | 139.7mm | | |
| Unit | Starting current | A | | | 0 | | | | | | |
| | Running current | Cooling | Nom. | A | 159 | 181 | 219 | 221 | 255 | | 271 |
| | Max | A | | | 204 | 227 | 268 | 291 | 334 | | 355 |
| Power supply | Phase/Frequency/Voltage | | | Hz/V | 3~/50/400 | | | | | | |

EWAH-TZBSD					425	455	485	505	545	545	590
SEER					4.571	4.593	4.603	4.565	4.557	4.595	4.568
Cooling capacity	Nom.			kW	425.2	448.8	487.5	500	537.5		576.1
Power input	Cooling	Nom.		kW	135.6	176.2	162	204.3	202.2		201.2
Capacity control	Method				Stepless						
	Minimum capacity			%	11	17	10	15		10	
EER					3.137	2.547	3.009	2.447	2.658		2.864
IPLV					4.407	4.537	4.451	4.523	4.492	4.462	4.402
Dimensions	Unit	Height		mm	2,553						
		Width		mm	2,238						
		Depth		mm	4,720	3,640	4,720	3,640	4,720	5,800	
Weight	Unit		kg	3,751	3,486	3,941	3,871	4,353	3,971	4,422	
	Operation weight		kg	3,811	3,546	4,006	3,941	4,428	4,046	4,502	
Air heat exchanger	Type				Microchannel						
Compressor	Type				Screw compressor						
Fan	Quantity				2	1	2	1		2	
	Type				Direct propeller						
	Quantity				8	6	8	6	8	10	
	Air flow rate	Cooling	Nom.	l/s	50,987	38,240	50,987	38,240	50,990	50,987	63,733
Sound power level	Cooling	Nom.		dBA	100.4	100.3	100.6	101.9	103	102.8	103.9
Sound pressure level	Cooling	Nom.		dBA	80.12	80.61	80.29	82.2	82.7	82.53	83.21
Operation range	Air side	Cooling	Min.~Max.	°CDB	5 ~46						
Refrigerant	Type/GWP				R-1234(ze)/7						
	Charge			kg	60	65	70	75	80		
	Circuits	Quantity			2	1	2	1	2		
Piping connections	Evaporator water inlet/outlet (OD)				139.7mm	168.3mm	139.7mm	168.3mm			
Unit	Starting current	Max		A	0						
	Running current	Cooling	Nom.	A	274	308	321	351		391	
	current	Max		A	358	396	406	435	463	452	494
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400						



MicroTech 4



EWAH_H_S-TZ-D

EWAH-TZBSD					635	745	785	845	900	985	C11
SEER					4.612	4.792	4.758	4.774	4.766	4.72	4.71
Cooling capacity	Nom.				kW	633.2	742.7	786.2	842.9	899	1,104
Power input	Cooling	Nom.				kW	226.9	238.6	261.4	302.2	391.1
Capacity control	Method	Stepless									
	Minimum capacity				%	10	12	11	10		
EER					2.791	3.113	3.007	2.931	2.974	2.804	2.823
IPLV					4.452	4.741	4.716	4.722	4.692	4.624	4.623
Dimensions	Unit	Height				mm	2,553				
		Width				mm	2,238				
		Depth				mm	5,800	6,880		7,960	
Weight	Unit				kg	4,452	5,370		5,614	6,096	7,352
	Operation weight				kg	4,537	5,470	5,480	5,729	6,221	7,507
Air heat exchanger	Type	Microchannel									
Compressor	Type	Screw compressor									
	Quantity	2									
Fan	Type	Direct propeller									
	Quantity					10	12		14		16
	Air flow rate	Cooling	Nom.		l/s	63,733	76,480		89,233		101,980
Sound power level	Cooling	Nom.				dBA	104.6	99.7	100.3	101.5	103.2
Sound pressure level	Cooling	Nom.				dBA	83.83	78.53	79.14	79.46	81.67
Operation range	Air side	Cooling	Min.~Max.				°CDB	5 ~46			
Refrigerant	Type/GWP	R-1234(ze)/7									
	Charge				kg	85	100	110	115	125	135
	Circuits					2					
Piping connections	Evaporator water inlet/outlet (OD)					168.3mm			219.1mm		273mm
Unit	Starting current	Max				A	0				
	Running	Cooling	Nom.				A	425	445	480	519
	current	Max				A	536	581	624	667	719
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400					

EWAH-TZBSD					H11	C13	H13	H14	C15	H15	
SEER					4.65	5.062	5.043	5.041	4.983	4.984	
Cooling capacity	Nom.				kW	1,177	1,315	1,386	1,474	1,586	
Power input	Cooling	Nom.				kW	436	423.5	471	508.7	
Capacity control	Method	Stepless									
	Minimum capacity				%	10	12	11	10		
EER					2.699	3.105	2.943	2.898	2.725	2.732	
IPLV					4.543	5.285	5.263	5.232	5.165	5.15	
Dimensions	Unit	Height				mm	2,553				
		Width				mm	2,238				
		Depth				mm	9,040	10,120		11,200	12,280
Weight	Unit				kg	7,352	8,279		8,760		
	Operation weight				kg	7,517	8,459	8,469	8,965	8,975	
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	101,980	114,720		127,467		
Sound power level	Cooling	Nom.				dBA	106.9	104.3	105.2	106.1	
Sound pressure level	Cooling	Nom.				dBA	84.97	82.09	82.94	83.56	
Operation range	Air side	Cooling	Min.~Max.				°CDB	5 ~46			
Refrigerant	Type/GWP	R-1234(ze)/7									
	Charge				kg	165	180	190	205	215	
	Circuits					2					
Piping connections	Evaporator water inlet/outlet (OD)					273mm					
Unit	Starting current	Max				A	0				
	Running	Cooling	Nom.				A	748	733	804	862
	current	Max				A	927	1,015	1,106	1,383	1,330
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400					

Inverter screw with SILVER efficiency. Standard sound.

- HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,600 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

EWAH-TZSSD					240	265	295	370	400	415	450	
SEER					5.606		5.489	5.354	5.624	5.379	5.498	5.506
Cooling capacity	Nom.				kW		242.1	264.9	296.5	366.7	402.3	447.1
Power input	Cooling	Nom.				kW		75.33	86.23	98.15	112.9	121.5
Capacity control	Method				Stepless							
Minimum capacity					%		19	17	15	23	12	20
EER					3.214		3.072	3.021	3.248	3.312	3.062	3.094
IPLV					5.624		5.53	5.387	5.92	5.48	5.755	5.738
Dimensions	Unit	Height				mm		2,553				
		Width				mm		2,238				
		Depth				mm		3,640		4,720	5,800	4,720
Weight	Unit				kg		3,041	3,071	3,968	4,233	3,968	4,032
	Operation weight				kg		3,076	3,111	4,018	4,288	4,023	4,092
Air heat exchanger	Type				Microchannel							
Compressor	Type				Screw compressor							
Fan	Quantity				1				2		1	
	Type				Direct propeller							
	Quantity				6		8		10		8	
Sound power level	Air flow rate	Cooling	Nom.	l/s		38,240		50,990		63,733		50,990
	Cooling	Nom.			dBA		97.9	100	102.3	97.1	97.8	98
Sound pressure level	Cooling	Nom.			dBA		78.18	80.27	82.57	76.87	77.09	77.71
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46						
Refrigerant	Type/GWP				R-1234(ze)/7							
	Charge				kg		35	40	50	55		60
	Circuits	Quantity			1				2		1	
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm				139.7mm			
Unit	Starting current				A		0		0			
	Running	Cooling	Nom.	A		158.4	177.6	198.4	226.8	259.9	254	271.3
	current	Max			A		214	237	259	302	345	365
Power supply	Phase/Frequency/Voltage				Hz/V		3~/50/400					

EWAH-TZSSD					470	490	535	540	595	630	690	
SEER					5.211		5.512	5.252	5.592	5.291	5.221	5.538
Cooling capacity	Nom.				kW		468.8	485.8	508.7	533.5	592.4	696.4
Power input	Cooling	Nom.				kW		149.2	166.9	162.3	183.6	188.6
Capacity control	Method				Stepless							
Minimum capacity					%		10	17	10	15	10	13
EER					3.143		2.911	3.134	2.906	3.141	3.037	3.252
IPLV					5.317		5.593	5.351	5.607	5.392	5.316	5.64
Dimensions	Unit	Height				mm		2,553				
		Width				mm		2,238				
		Depth				mm		5,800	4,720	5,800	6,880	
Weight	Unit				kg		4,233	4,032	4,422	4,834	4,934	5,370
	Operation weight				kg		4,298	4,097	4,492	4,909	5,014	5,019
Air heat exchanger	Type				Microchannel							
Compressor	Type				Screw compressor							
Fan	Quantity				2		1	2	1	2		
	Type				Direct propeller							
	Quantity				10		8	10		12		
Sound power level	Air flow rate	Cooling	Nom.	l/s		63,733	50,990	63,733		76,480		
	Cooling	Nom.			dBA		100.7	100.5	101.3	102.2	104.3	105.1
Sound pressure level	Cooling	Nom.			dBA		79.96	80.28	80.56	81.47	83.15	83.92
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46						
Refrigerant	Type/GWP				R-1234(ze)/7							
	Charge				kg		65	70	75	80	85	95
	Circuits	Quantity			2		1	2	1	2		
Piping connections	Evaporator water inlet/outlet (OD)				139.7mm		168.3mm		139.7mm		168.3mm	
Unit	Starting current				A		0		0			
	Running	Cooling	Nom.	A		309	304.8	332.2	334.3	381.9	412.4	425.7
	current	Max			A		405	406	428	455	495	538
Power supply	Phase/Frequency/Voltage				Hz/V		3~/50/400					



MicroTech 4



EWAD_H_S-TZ-D

EWAH-TZSSD					740	795	855	910	980	C10	C11			
SEER					5.452	5.539	5.505	5.532		5.53	5.489			
Cooling capacity	Nom.				kW	741.3	795.3	854.3	909.5	983.4	1,043	1,113		
Power input	Cooling	Nom.				kW	236.7	254.1	278.9	294	341.1	365.2		
Capacity control	Method	Stepless												
	Minimum capacity				%	11		10		3.058	3.046			
EER					3.132	3.13	3.063	3.094	3.048	3.058	3.046			
IPLV					5.523	5.564	5.539	5.56	5.516	5.505	5.452			
Dimensions	Unit	Height				2,553								
		Width				2,238								
		Depth				6,880	7,960		9,040	10,120	11,200			
Weight	Unit				kg	5,370	5,852	6,096	6,577	7,059	7,629	8,315		
	Operation weight				kg	5,470	5,962	6,216	6,702	7,194	7,774	8,470		
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	89,233		101,908	114,714	127,460			
Sound power level	Cooling	Nom.				dB(A)	99.7	100.5	100.8	101.6	103	104.1	104.8	
Sound pressure level	Cooling	Nom.				dB(A)	78.52	78.95	79.25	79.73	80.8	81.53	82.27	
Operation range	Air side	Cooling	Min.~Max.	°CDB			-20 ~46							
Refrigerant	Type/GWP	R-1234(ze)/7												
	Charge				kg	100	110	120	125	135	145	155		
	Circuits	Quantity				2								
Piping connections	Evaporator water inlet/outlet (OD)					168.3mm		219.1mm			273mm			
Unit	Starting current	Max				A								
	Running	Cooling	Nom.				A	456.1	483.2	520.7	547.3	594.5	627.5	665.5
	current	Max				A	581	634	677	729	802	852	891	
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400								

EWAH-TZSSD					C12	H12	H13	C14	C15	H15			
SEER					5.339	5.735	5.652	5.723	5.774	5.686			
Cooling capacity	Nom.				kW	1,211	1,331	1,406	1,492	1,542	1,606		
Power input	Cooling	Nom.				kW	416.6	409.9	455.3	495.6	512.4	566.3	
Capacity control	Method	Stepless											
	Minimum capacity				%	10	12	11	10				
EER					2.906	3.248	3.088	3.01	3.009	2.836			
IPLV					5.254	6.207	5.994	6.078	6.09	5.956			
Dimensions	Unit	Height				2,553							
		Width				2,238							
		Depth				11,200		12,280		13,360			
Weight	Unit				kg	8,315	8,760		9,242	9,723			
	Operation weight				kg	8,485	8,945	8,955	9,447	9,938	9,948		
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		140,206		152,952			
Sound power level	Cooling	Nom.				dB(A)	107	104.4	105.2	106.2	107.1	107.5	
Sound pressure level	Cooling	Nom.				dB(A)	84.42	81.86	82.7	83.33	83.98	84.4	
Operation range	Air side	Cooling	Min.~Max.	°CDB			-20 ~46						
Refrigerant	Type/GWP	R-1234(ze)/7											
	Charge				kg	170	185	195	205	215	225		
	Circuits	Quantity				2							
Piping connections	Evaporator water inlet/outlet (OD)					273mm							
Unit	Starting current	Max				A							
	Running	Cooling	Nom.				A	741.8	732.3	799.8	862.2	893.4	973.3
	current	Max				A	948	1,025	1,117	1,393	1,351	1,410	
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400							

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EWAH-TZXSD				220	230	275	300	350	400		
SEER					5.528	5.478	5.899	5.78	6.259	6.127	
Cooling capacity	Nom.			kW	219.8	323.4	275.1	299.3	348.7	397.5	
Power input	Cooling	Nom.		kW	67.79	74.71	82.02	92.55	99.59	122.1	
Capacity control	Method				Stepless						
	Minimum capacity			%	22	20	18	16	25	22	
EER					3.243	3.111	3.354	3.234	3.501	3.256	
IPLV					6.035	5.988	6.156	6.085	6.684	6.588	
Dimensions	Unit	Height		mm	2,553						
		Width		mm	2,238						
		Depth		mm	2,560		3,640		4,720		
Weight	Unit			kg	2,731		3,242		4,023		
	Operation weight			kg	2,761		3,277		3,282	4,068	4,078
Air heat exchanger	Type				Microchannel						
Compressor	Type				Screw compressor						
Fan	Quantity				1						
	Type				Direct propeller						
	Quantity				4		6		8		
	Air flow rate	Cooling	Nom.	l/s	22,620		33,930		45,240		
Sound power level	Cooling	Nom.		dBA	97.3	97.5	100.2	100.8	97.3	99.8	
Sound pressure level	Cooling	Nom.		dBA	78.13	78.36	80.42	81.11	77.01	79.55	
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46						
Refrigerant	Type/GWP				R-1234(ze)/7						
	Charge			kg	30		35	40	45	55	
	Circuits	Quantity			1						
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm				139.7mm		
Unit	Starting current			Max	A	0					
	Running	Cooling	Nom.	A	145.1	157.4	175.8	194.2	211.3	243.1	
	current	Max	A	172	183	214	236	269	310		
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400						

EWAH-TZXSD				465	470	515	540	545	600		
SEER					5.999	6.336	6.198	5.64	6.108	6.04	
Cooling capacity	Nom.			kW	471.7	466	504.2	534.5	543.9	602.4	
Power input	Cooling	Nom.		kW	135.2	139.9	159.8	152.6	155.1	178.4	
Capacity control	Method				Stepless						
	Minimum capacity			%	10	19	17	30	10		
EER					3.488	3.331	3.156	3.503	3.508	3.376	
IPLV					6.223	6.632	6.422	5.95	6.381	6.28	
Dimensions	Unit	Height		mm	2,553						
		Width		mm	2,238						
		Depth		mm	6,880	5,800		6,880			
Weight	Unit			kg	4,886	4,569	5,323		5,105	5,157	
	Operation weight			kg	4,951	4,634	4,639	5,398	5,180	5,242	
Air heat exchanger	Type				Microchannel						
Compressor	Type				Screw compressor						
Fan	Quantity				2		1		2		
	Type				Direct propeller						
	Quantity				12		10		12		
	Air flow rate	Cooling	Nom.	l/s	67,860	56,540		67,860			
Sound power level	Cooling	Nom.		dBA	100.6	104.5	101.7	98.8	100.9	105.5	
Sound pressure level	Cooling	Nom.		dBA	79.43	83.77	80.97	78.1	79.75	84.34	
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46						
Refrigerant	Type/GWP				R-1234(ze)/7						
	Charge			kg	65		70	75	85		
	Circuits	Quantity			2		1		2		
Piping connections	Evaporator water inlet/outlet (OD)				139.7mm				168.3mm		
Unit	Starting current			Max	A	0					
	Running	Cooling	Nom.	A	299	276.8	306.6	296.2	334.4	375.7	
	current	Max	A	364	357	394	414	406	448		
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400						



MicroTech 4



EWAD_H_S-TZ-D

EWAH-TZXSD					620	645	700	750	790	840
SEER					5.558	6.211	6.102	6.362	6.407	6.296
Cooling capacity	Nom.			kW	617	641.9	697.1	752.7	788.8	841.2
Power input	Cooling	Nom.		kW	191	186	209.1	219	225.9	249.4
Capacity control	Method				Stepless					
	Minimum capacity			%	25	14	13	12		11
EER					3.231	3.452	3.334	3.437	3.491	3.373
IPLV					5.741	6.446	6.347	6.608	6.64	6.479
Dimensions	Unit	Height		mm	2,553					
		Width		mm	2,238					
		Depth		mm	5,800	6,880	7,960	9,040		
Weight	Unit			kg	5,323	5,414	6,151	6,633		
	Operation weight			kg	5,408	5,504	5,509	6,256	6,743	6,748
Air heat exchanger	Type				Microchannel					
Compressor	Type				Screw compressor					
Fan	Quantity				1		2			
	Type				Direct propeller					
	Quantity				10	12	14	16		
	Air flow rate	Cooling	Nom.	l/s	56,540	67,860	79,170	90,480		
Sound power level	Cooling	Nom.		dBA	100.5	98.1	100.1	100.9	101.5	102.8
Sound pressure level	Cooling	Nom.		dBA	79.81	76.91	78.9	79.3	79.61	80.92
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46					
Refrigerant	Type/GWP				R-1234(ze)/7					
	Charge			kg	85	90	95	105	110	115
	Circuits	Quantity			1		2			
Piping connections	Evaporator water inlet/outlet (OD)				139.7mm	168.3mm		219.1mm		
Unit	Starting current	Max		A	0					
	Running	Cooling	Nom.	A	353.5	388.6	428.2	445.5	457.9	493.4
	current	Max		A	491	472	517	527	579	618
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400					

EWAH-TZXSD					900	975	H10	H11	H12	H13
SEER					6.195	6.234	6.183	5.865	5.933	5.988
Cooling capacity	Nom.			kW	897.2	972.1	1,082	1,184	1,275	1,383
Power input	Cooling	Nom.		kW	273.7	299.9	326.1	346.2	380	415.3
Capacity control	Method				Stepless					
	Minimum capacity			%		10		14	13	12
EER					3.278	3.242	3.318	3.42	3.355	3.33
IPLV					6.36	6.383	6.42	6.367	6.514	6.481
Dimensions	Unit	Height		mm	2,553					
		Width		mm	2,238					
		Depth		mm	9,040	10,120	11,200	12,280	13,360	
Weight	Unit			kg	6,722	7,203	8,091	8,760	9,242	9,723
	Operation weight			kg	6,847	7,338	8,241	8,925	9,417	9,913
Air heat exchanger	Type				Microchannel					
Compressor	Type				Screw compressor					
Fan	Quantity				2					
	Type				Direct propeller					
	Quantity				16	18	20	22	24	
	Air flow rate	Cooling	Nom.	l/s	90,480	101,772	113,080		124,388	135,696
Sound power level	Cooling	Nom.		dBA	105.1	106.8	104.7	102.7	103.6	104.5
Sound pressure level	Cooling	Nom.		dBA	83.2	84.61	82.17	80.14	80.78	81.43
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46					
Refrigerant	Type/GWP				R-1234(ze)/7					
	Charge			kg	125	135	150	165	175	190
	Circuits	Quantity			2					
Piping connections	Evaporator water inlet/outlet (OD)				219.1mm			273mm		
Unit	Starting current	Max		A	0					
	Running	Cooling	Nom.	A	530.6	575.7	623.9	651.9	708.1	768.7
	current	Max		A	655	702	787	902	992	1,090
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400					

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EWAH-TZXRD				220	230	275	300	350	400	
SEER					5.404	5.363	5.942	5.775	6.188	6.026
Cooling capacity	Nom.			kW	216.3	228.3	271.7	295.3	345.2	393.5
Power input	Cooling	Nom.		kW	68.5	75.92	81.59	92.45	98.6	122.2
Capacity control	Method	Stepless								
	Minimum capacity			%	22	20	18	16	25	22
EER					3.157	3.007	3.33	3.194	3.501	3.219
IPLV					6.058	6.007	6.144	6.065	6.641	6.619
Dimensions	Unit	Height		mm	2,553					
		Width		mm	2,238					
		Depth		mm	2,680		3,760		4,840	
Weight	Unit			kg	2,851		3,362		4,143	
	Operation weight			kg	2,761		3,277		3,282	4,068
Air heat exchanger	Type	Microchannel								
Compressor	Type	Screw compressor								
Fan	Quantity	1								
	Type	Direct propeller								
	Quantity				4		6		8	
	Air flow rate	Cooling	Nom.	l/s	18,890		28,330		37,770	
Sound power level	Cooling	Nom.		dBA	86.7	86.9	89.3	89.9	87.9	89.4
Sound pressure level	Cooling	Nom.		dBA	67.62	67.78	69.6	70.14	67.59	69.17
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46					
Refrigerant	Type/GWP	R-1234(ze)/7								
	Charge			kg	30		35	40	45	55
	Circuits	Quantity	1							
Piping connections	Evaporator water inlet/outlet (OD)					88.9mm			139.7mm	
Unit	Starting current	Max		A	0					
	Running	Cooling	Nom.	A	150.2	163.3	180.6	199.6	216.9	249.8
	current	Max		A	172	183	214	236	269	310
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400					

EWAH-TZXRD				465	470	515	540	545	600	
SEER					6.02	6.284	6.103	5.588	6.133	6.042
Cooling capacity	Nom.			kW	467.2	461.6	497.8	528	537.6	594.3
Power input	Cooling	Nom.		kW	132.7	139.1	159.9	153.8	153.6	178.3
Capacity control	Method	Stepless								
	Minimum capacity			%	10	19	17	30	10	
EER					3.52	3.319	3.112	3.434	3.494	3.334
IPLV					6.273	6.667	6.49	5.796	6.414	6.301
Dimensions	Unit	Height		mm	2,553					
		Width		mm	2,238					
		Depth		mm	7,000	5,920		7,000		
Weight	Unit			kg	5,006	4,689		5,443	5,225	5,277
	Operation weight			kg	4,951	4,634	4,639	5,398	5,180	5,242
Air heat exchanger	Type	Microchannel								
Compressor	Type	Screw compressor								
Fan	Quantity				2		1		2	
	Type	Direct propeller								
	Quantity				12		10		12	
	Air flow rate	Cooling	Nom.	l/s	56,660	47,213		56,660		
Sound power level	Cooling	Nom.		dBA	90.5	93.3	91.1	89.2	90.8	94.2
Sound pressure level	Cooling	Nom.		dBA	69.38	72.53	70.32	68.42	69.59	73.07
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46					
Refrigerant	Type/GWP	R-1234(ze)/7								
	Charge			kg	65		70	75	85	
	Circuits	Quantity	2							
Piping connections	Evaporator water inlet/outlet (OD)					139.7mm			168.3mm	
Unit	Starting current	Max		A	0					
	Running	Cooling	Nom.	A	305.9	283.6	314.9	306.1	343.5	386.6
	current	Max		A	364	357	394	414	406	448
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400					



MicroTech 4



EWAD_H_S-TZ-D

EWAH-TZXRD					620	645	700	750	790	840	
SEER					5.467	6.207	6.095	6.392	6.417	6.318	
Cooling capacity	Nom.				kW	607.1	632.8	687.3	743.4	831.9	
Power input	Cooling	Nom.				kW	194.4	186.7	211.1	225.2	
Capacity control	Method	Stepless									
	Minimum capacity				%	25	14	13	12	11	
EER					3.123	3.389	3.255	3.379	3.467	3.325	
IPLV					5.64	6.46	6.317	6.633	6.648	6.52	
Dimensions	Unit	Height				2,553					
		Width				2,238					
		Depth				5,920	7,000	8,080	9,160		
Weight	Unit				kg	5,443	5,534	6,271	6,753		
	Operation weight				kg	5,408	5,504	5,509	6,256	6,748	
Air heat exchanger	Type	Microchannel									
Compressor	Type	Screw compressor									
	Quantity				1	2					
Fan	Type	Direct propeller									
	Quantity				10	12	14	16			
	Air flow rate	Cooling	Nom.		l/s	47,213	56,660	66,098	75,540		
Sound power level	Cooling	Nom.				dBA	90.2	89.1	90.2	91	
Sound pressure level	Cooling	Nom.				dBA	69.5	67.94	69.04	69.4	
Operation range	Air side	Cooling	Min.~Max.	°CDB							
Refrigerant	Type/GWP	-20 ~46									
		R-1234(ze)/7									
	Charge				kg	85	90	95	105	110	
	Circuits	Quantity				1	2				
Piping connections	Evaporator water inlet/outlet (OD)					139.7mm	168.3mm		219.1mm		
Unit	Starting current	Max				A	0				
	Running	Cooling	Nom.				A	366.7	401.1	433.8	
	current	Max				A	491	472	517	527	
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400					

EWAH-TZXRD					900	975	H10	H11	H12	H13	
SEER					6.216	6.252	6.226	5.875	5.942	5.987	
Cooling capacity	Nom.				kW	886	959.8	1,066	1,167	1,257	
Power input	Cooling	Nom.				kW	276	301.6	327.9	351.2	
Capacity control	Method	Stepless									
	Minimum capacity				%	10		14	13	12	
EER					3.21	3.182	3.251	3.323	3.268	3.251	
IPLV					6.407	6.445	6.447	6.498	6.388	6.435	
Dimensions	Unit	Height				2,553					
		Width				2,238					
		Depth				9,160	10,240	11,320	12,400	13,480	
Weight	Unit				kg	6,842	7,323	8,211	8,880	9,362	
	Operation weight				kg	6,847	7,338	8,241	8,925	9,417	
Air heat exchanger	Type	Microchannel									
Compressor	Type	Screw compressor									
	Quantity					2					
Fan	Type	Direct propeller									
	Quantity				16	18	20	22	24		
	Air flow rate	Cooling	Nom.		l/s	75,540	84,983	94,425	103,868	113,320	
Sound power level	Cooling	Nom.				dBA	94.1	95.6	94.1	92.7	
Sound pressure level	Cooling	Nom.				dBA	72.22	73.4	71.53	70.14	
Operation range	Air side	Cooling	Min.~Max.	°CDB							
Refrigerant	Type/GWP	-20 ~46									
		R-1234(ze)/7									
	Charge				kg	125	135	150	165	175	
	Circuits	Quantity					2				
Piping connections	Evaporator water inlet/outlet (OD)					219.1mm			273mm		
Unit	Starting current	Max				A	0				
	Running	Cooling	Nom.				A	547.1	592.9	642.8	
	current	Max				A	655	702	787	842.8	
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400					

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EWAH-TZPSD					225	265	295	340	395	420			
SEER					6.234	6.353	6.334	6.977	6.709	6.849			
Cooling capacity	Nom.				kW	227.3	266.6	293.6	336.7	421.5			
Power input	Cooling	Nom.				kW	61.76	71.25	81.63	84.16	105.1	113.2	
Capacity control	Method					Stepless							
	Minimum capacity				%	22	19	17	28	23	22		
EER					3.6	3.618	3.499	3.853	3.651	3.612			
IPLV					6.688	6.689	6.595	7.437	7.042	7.251			
Dimensions	Unit	Height				mm	2,553						
		Width				mm	2,238						
		Depth				mm	3,640	4,720		5,800		6,880	
Weight	Unit				kg	3,212	3,724		4,569		5,050		
	Operation weight				kg	3,242	3,759	3,764	4,614	4,624	5,110		
Air heat exchanger	Type					Microchannel							
Compressor	Type					Screw compressor							
	Quantity					1							
Fan	Type					Direct propeller							
	Quantity					6	8		10		12		
	Air flow rate	Cooling	Nom.		l/s	33,930	45,240		56,540		67,848		
Sound power level	Cooling	Nom.				dBA	97.5	98.1	102.6	95.7	98.7	100.1	
Sound pressure level	Cooling	Nom.				dBA	77.74	77.83	82.3	75	77.94	78.89	
Operation range	Air side	Cooling	Min.~Max.				°CDB	-20 ~46					
Refrigerant	Type/GWP					R-1234(ze)/7							
	Charge				kg	30	35	40	45	55	60		
	Circuits	Quantity					1						
Piping connections	Evaporator water inlet/outlet (OD)					88.9mm		139.7mm					
Unit	Starting current	Max				A	0						
	Running	Cooling	Nom.				A	142.3	166.7	184.7	196.1	230.8	248
	current	Max				A	183	214	235	258	301	330	
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400							

EWAH-TZPSD					490	500	540	545	615			
SEER					6.786	6.44	6.576	6.09	6.865			
Cooling capacity	Nom.				kW	848.9	502.6	538.7	541.2	612.4		
Power input	Cooling	Nom.				kW	133.4	132.3	141.6	143.6	156.8	
Capacity control	Method					Stepless						
	Minimum capacity				%	19	10		30		15	
EER					3.561	3.737	3.721	3.736	3.843			
IPLV					7.093	6.797	6.932	6.385	7.155			
Dimensions	Unit	Height				mm	2,553					
		Width				mm	2,238					
		Depth				mm	6,880		7,960	6,880	7,960	
Weight	Unit				kg	5,136	5,157	5,639	5,805	6,151		
	Operation weight				kg	5,201	5,227	5,714	5,880	6,236		
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					1	2		1	2		
Fan	Type					Direct propeller						
	Quantity					12		14	12	14		
	Air flow rate	Cooling	Nom.		l/s	67,848		79,170	67,848	79,170		
Sound power level	Cooling	Nom.				dBA	104.6	100.6	100.9	99	96.6	
Sound pressure level	Cooling	Nom.				dBA	83.39	79.43	79.35	77.82	75.06	
Operation range	Air side	Cooling	Min.~Max.				°CDB	-20 ~46				
Refrigerant	Type/GWP					R-1234(ze)/7						
	Charge				kg	65	70	75	85			
	Circuits	Quantity					1	2		1	2	
Piping connections	Evaporator water inlet/outlet (OD)					139.7mm	168.3mm		139.7mm	219.1mm		
Unit	Starting current	Max				A	0					
	Running	Cooling	Nom.				A	278	298.6	322.3	290.8	347.4
	current	Max				A	367	375	406	425	432	
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400						



MicroTech 4



EWAD_H_S-TZ-D

EWAH-TZPSD					645	700	770	845	900
SEER					6.816	6.672	6.656	6.712	6.595
Cooling capacity	Nom.				kW	640.9	697.3	768.3	847.6
Power input	Cooling	Nom.				kW	167.4	190.8	209.2
Capacity control	Method				Stepless				
	Minimum capacity				%	14	13	12	11
EER					3.782	3.642	3.648		3.528
IPLV					7.157	6.992	6.965		7.134
Dimensions	Unit	Height				mm			
		Width				mm			
		Depth				mm			
Weight	Unit				kg	7,960	6,151	9,040	10,120
	Operation weight				kg	6,241	6,246	6,827	7,371
Air heat exchanger	Type				Microchannel				
Compressor	Type				Screw compressor				
Fan	Quantity				2				
	Type				Direct propeller				
	Quantity				14		16		18
Sound power level	Air flow rate	Cooling	Nom.		I/s	79,170	90,480		101,780
	Cooling	Nom.				dBa	97.5	99.3	101
Sound pressure level	Cooling	Nom.				dBa	75.95	77.76	79.04
Operation range	Air side	Cooling	Min.~Max.		°CDB	-20 ~46			
Refrigerant	Type/GWP				R-1234(ze)/7				
	Charge				kg	90	95	105	115
	Circuits				2				
	Quantity				219.1mm				
Piping connections	Evaporator water inlet/outlet (OD)				0				
Unit	Starting current				A	365			
	Running	Cooling	Nom.		A	403.1	437.5	473.2	507.8
	current	Max				A	458	505	558
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400			
EWAH-TZPSD					960	C10	H10	H11	C12
SEER					6.596	6.52	6.564	6.262	6.327
Cooling capacity	Nom.				kW	958.2	1,006	1,068	1,216
Power input	Cooling	Nom.				kW	268.9	289.6	305.9
Capacity control	Method				Stepless				
	Minimum capacity				%	10			14
EER					3.54	3.462	3.469	3.7	3.712
IPLV					6.912	6.746	6.815	6.562	7.068
Dimensions	Unit	Height				mm			
		Width				mm			
		Depth				mm			
Weight	Unit				kg	11,200	8,050	8,573	9,242
	Operation weight				kg	8,180	8,190	8,723	9,402
Air heat exchanger	Type				Microchannel				
Compressor	Type				Screw compressor				
Fan	Quantity				2				
	Type				Direct propeller				
	Quantity				20		22		24
Sound power level	Air flow rate	Cooling	Nom.		I/s	113,089	140,200		152,945
	Cooling	Nom.				dBa	106.5	106.9	105.5
Sound pressure level	Cooling	Nom.				dBa	83.96	84.32	82.67
Operation range	Air side	Cooling	Min.~Max.		°CDB	-20 ~46			
Refrigerant	Type/GWP				R-1234(ze)/7				
	Charge				kg	130	140	150	160
	Circuits				2				
	Quantity				273mm				
Piping connections	Evaporator water inlet/outlet (OD)				0				
Unit	Starting current				A	539.6			
	Running	Cooling	Nom.		A	569.4	603	612	638.1
	current	Max				A	694	731	779
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400			

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EWAH-TZPRD				225	265	295	340	395	420
SEER				6.176	6.335	6.289	7.018	6.627	6.824
Cooling capacity	Nom.		kW	225.2	264.6	291.2	333.9	389.2	419.1
Power input	Cooling	Nom.	kW	61.76	71.25	81.63	84.16	105.1	113.2
Capacity control	Method			Stepless					
	Minimum capacity		%	22	19	17	28	23	22
EER				3.647	3.713	3.567	3.967	3.705	3.703
IPLV				6.699	6.688	6.583	7.472	7.129	7.273
Dimensions	Unit	Height	mm	2,553					
		Width	mm	2,238					
		Depth	mm	3,760	4,840		5,920		7,000
Weight	Unit		kg	3,332	3,844		4,689		5,170
	Operation weight		kg	3,242	3,759	3,764	4,614	4,624	5,110
Air heat exchanger	Type			Microchannel					
Compressor	Type			Screw compressor					
	Quantity			1					
Fan	Type			Direct propeller					
	Quantity			6	8		10		12
	Air flow rate	Cooling	Nom.	28,330	37,770		47,213		56,660
Sound power level	Cooling	Nom.	dBA	87.5	88.3	91.5	87.6	89.1	90.2
Sound pressure level	Cooling	Nom.	dBA	67.73	68.06	71.23	66.88	68.33	69.04
Operation range	Air side	Cooling	Min.~Max.	-20 ~46					
Refrigerant	Type/GWP			R-1234(ze)/7					
	Charge		kg	30	35	40	45	55	60
	Circuits	Quantity		1					
Piping connections	Evaporator water inlet/outlet (OD)			88.9mm					
Unit	Starting current	Max	A	0					
	Running	Cooling	Nom.	145.5	169.8	188.1	199.8	235.9	252.3
	current	Max	A	183	214	235	258	301	330
Power supply	Phase/Frequency/Voltage		Hz/V	3~/50/400					

EWAH-TZPRD				490	500	540	545	615
SEER				6.728	6.458	6.426	6.091	6.484
Cooling capacity	Nom.		kW	481.2	497.4	533.5	536.5	604.9
Power input	Cooling	Nom.	kW	133.4	132.3	141.6	143.6	156.8
Capacity control	Method			Stepless				
	Minimum capacity		%	19	10		30	15
EER				3.606	3.76	3.768	3.736	3.858
IPLV				7.127	6.826	6.955	6.407	7.285
Dimensions	Unit	Height	mm	2,553				
		Width	mm	2,238				
		Depth	mm	7,000		8,080	7,000	8,080
Weight	Unit		kg	5,256	5,277	5,759	5,925	6,271
	Operation weight		kg	5,201	5,227	5,714	5,880	6,236
Air heat exchanger	Type			Microchannel				
Compressor	Type			Screw compressor				
	Quantity			1	2		1	2
Fan	Type			Direct propeller				
	Quantity			12	14		12	14
	Air flow rate	Cooling	Nom.	56,660		66,098	56,660	66,098
Sound power level	Cooling	Nom.	dBA	93.4	90.5	91	89.6	88.9
Sound pressure level	Cooling	Nom.	dBA	72.28	69.38	69.43	68.42	67.29
Operation range	Air side	Cooling	Min.~Max.	-20 ~46				
Refrigerant	Type/GWP			R-1234(ze)/7				
	Charge		kg	65	70	75		85
	Circuits	Quantity		1	2		1	2
Piping connections	Evaporator water inlet/outlet (OD)			139.7mm	168.3mm		139.7mm	219.1mm
Unit	Starting current	Max	A	0				
	Running	Cooling	Nom.	283.4	305.9	329.8	298.5	355.9
	current	Max	A	367	375	406	425	432
Power supply	Phase/Frequency/Voltage		Hz/V	3~/50/400				



MicroTech 4



EWAD_H_5-TZ-D

EWAH-TZPRD					645	700	770	845	900
SEER					6.833	6.649	6.674	6.722	6.613
Cooling capacity	Nom.			kW	633.1	689	760.6	839.9	892.3
Power input	Cooling	Nom.		kW	167.4	190.8	209.2	230.4	254.6
Capacity control	Method				Stepless				
	Minimum capacity			%	14	13	12	11	10
EER					3.783	3.612	3.636	3.646	3.504
IPLV					7.162	7.001	6.458	7.118	6.974
Dimensions	Unit	Height		mm	2,553				
		Width		mm	2,238				
		Depth		mm	8,080				
Weight	Unit			kg	6,271				
	Operation weight			kg	6,241	6,246	6,827	7,371	7,381
Air heat exchanger	Type				Microchannel				
Compressor	Type				Screw compressor				
	Quantity				2				
Fan	Type				Direct propeller				
	Quantity				14				
	Air flow rate	Cooling	Nom.	l/s	66,098				
Sound power level	Cooling	Nom.		dBA	89.2	90.1	91.2	92.3	93.5
Sound pressure level	Cooling	Nom.		dBA	67.65	68.52	69.33	70.02	71.3
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46				
Refrigerant	Type/GWP				R-1234(ze)/7				
	Charge			kg	90	95	105	115	125
	Circuits	Quantity			2				
Piping connections	Evaporator water inlet/outlet (OD)				219.1mm				
Unit	Starting current	Max		A	0				
	Running current	Cooling	Nom.	A	374.4	414.8	449.1	484.8	521.2
	current	Max		A	458	505	558	609	647
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400				

EWAH-TZPRD					960	C10	H10	H11	C12
SEER					6.665	6.53	6.577	6.262	6.255
Cooling capacity	Nom.			kW	949.1	994.9	1,056	1,150	1,204
Power input	Cooling	Nom.		kW	268.9	289.6	305.9	315.5	327.6
Capacity control	Method				Stepless				
	Minimum capacity			%	10				
EER					3.53	3.435	3.452	3.644	3.675
IPLV					6.918	6.794	6.863	6.451	6.947
Dimensions	Unit	Height		mm	2,553				
		Width		mm	2,238				
		Depth		mm	11,320				
Weight	Unit			kg	8,170				
	Operation weight			kg	8,180	8,190	8,723	9,402	9,893
Air heat exchanger	Type				Microchannel				
Compressor	Type				Screw compressor				
	Quantity				2				
Fan	Type				Direct propeller				
	Quantity				20				
	Air flow rate	Cooling	Nom.	l/s	94,425				
Sound power level	Cooling	Nom.		dBA	95.4	95.7	94.8	92.6	93.1
Sound pressure level	Cooling	Nom.		dBA	72.9	73.2	71.92	69.81	69.96
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46				
Refrigerant	Type/GWP				R-1234(ze)/7				
	Charge			kg	130	140	150	160	170
	Circuits	Quantity			2				
Piping connections	Evaporator water inlet/outlet (OD)				273mm				
Unit	Starting current	Max		A	0				
	Running current	Cooling	Nom.	A	552.9	584.1	617.4	631.3	656.9
	current	Max		A	694	731	779	875	923
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400				



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