

Chillers

The ultimate in
reliability and flexibility

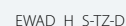


Inverter screw cooling only with BLU efficiency. Standard sound.

- Refrigerant R-513A
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,850 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

EWAS-TZBSD					275	320	345	400	470	525
SEER					4.3	4.4			4.6	
Cooling capacity	Nom.	kW			258.8	310.6	338.2	405.8	451.2	505.5
Power input	Cooling	kW			978	106.4	122.7	145.2	170.8	178.3
Capacity control	Method	Stepless								
	Minimum capacity	%			22	19	17	22	23	22
EER					2.646	2.919	2.756	2.795	2.642	2.835
IPLV					4.3	4.5	4.4	4.7	4.6	
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		4,032
	Operation weight	kg			2,677	3,169		3,583.7	3,593.7	4,160.1
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		25,490	38,235				50,990
	Sound power level	Nom.	dBA		974	979	100	973	96.7	97.7
Sound pressure level	Cooling	Nom.	dBA		78.3	78.2	80.3	77.6	77	77.4
Operation range	Air side	Cooling	Min.~Max.	°CDB	5 ~42					
Refrigerant	Type/GWP	R-513A/630								
	Charge	kg			35	45		55	65	70
	Circuits	Quantity			1					
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm			139.7mm		
Unit	Starting current	Max			A	0				
	Running	Cooling	Nom.	A	190.1	207.1	228.7	262	300.2	315.2
	current	Max		A	220	262	284	346	362	400
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400					

EWAS-TZBSD					580	625	755	830	915	
SEER					4.7		4.6		4.7	
Cooling capacity	Nom.	kW			554.9	597.4	734	800.1	884.2	
Power input	Cooling	kW			210.4	244.8	246.3	284.8	319.3	
Capacity control	Method	Stepless								
	Minimum capacity	%			19	17	13	11	13	
EER					2.637	2.44	2.98	2.809	2.769	
IPLV					4.5		4.8	4.7		
Dimensions	Unit	Height	mm			2,553				
		Width	mm			2,238				
		Depth	mm			4,720	6,880			
Weight	Unit	kg			4,032	5,670		6,142		
	Operation weight	kg			4,170.1	4,175.1	6,055	6,065	6,748	
Air heat exchanger	Type	Microchannel								
Compressor	Type	Screw compressor								
Fan	Quantity	1				2				
	Type	Direct propeller								
	Quantity	8				12				
Air flow rate	Cooling	Nom.	l/s		50,990	76,470				
	Sound power level	Nom.	dBA		98.1	100.5	99	100	99	
Sound pressure level	Cooling	Nom.	dBA		778	80.3	778	78.8	778	
Operation range	Air side	Cooling	Min.~Max.	°CDB	5 ~42					
Refrigerant	Type/GWP	R-513A/630								
	Charge	kg			80	85	105	115	125	
	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	362.8	413.9	457.4	515.3	568.4	
	current	Max		A	457	464	600	668		
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400					



EWAS-TZBSD					C10	H10	H11	C12	C13	C14
SEER								4.7		4.6
Cooling capacity	Nom.			kW	953.9	1,050	1,127	1,197	1,293	1,359.6
Power input	Cooling			kW	37196	393.3	4118	434.6	472.69	519.9
Capacity control	Method				Stepless					
	Minimum capacity			%	11			10		
EER					2.565	2.67	2.737	2.754	2.735	2.615
IPLV					4.7	4.8		4.7	4.6	
Dimensions	Unit	Height		mm	2,553					
		Width		mm	2,238					
		Depth		mm	6,880	7960	9,040	10,120	11,200	
Weight	Unit			kg	6,142	6,816	7,297	7,779	8,260	8,581
	Operation weight			kg	6,763	7,523	8,014	8,506	9,002	9,333
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	76,470	89,233	101,980	114,705	127,450	
Sound power level	Cooling	Nom.		dBA	100	100.7	101	101.8	103.7	104.8
Sound pressure level	Cooling	Nom.		dBA	78.8	79.1		79.6	81.2	82.3
Operation range	Air side	Cooling	Min.~Max.	°CDB	5 ~42					
Refrigerant	Type/GWP				R-513A/630					
	Charge			kg	140	150	160	170	185	195
	Circuits	Quantity			2					
Piping connections	Evaporator water inlet/outlet (OD)				219.1mm					
Unit	Starting current	Max		A	0					
	Running current	Cooling	Nom.	A	647.2	6819	7116	748.1	807.1	876.6
	current	Max		A	751	817	884	930	948	1,120
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400					

EWAS-TZBSD					C15	H16	H17	H18	H19
SEER					4.6	4.9	4.8	4.7	4.8
Cooling capacity	Nom.			kW	1483.5	1,606	1,688	1,799.6	1,868
Power input	Cooling			kW	558.77	581.2	647.2	699.02	775.2
Capacity control	Method				Stepless				
	Minimum capacity			%	10	13		11	10
EER					2.655	2.763	2.608	2.574	2.41
IPLV					4.6	5.2		5.1	
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	11,146	11,564	11,579	12,076	12,086
Air heat exchanger	Type				Microchannel				
Compressor	Type				Screw compressor				
	Quantity				2				
Fan	Type				Direct propeller				
	Quantity				22			24	
Air flow rate	Cooling	Nom.		l/s	140,195			152,940	
Sound power level	Cooling	Nom.		dBA	106.2	104.1	104.9	105.8	106.6
Sound pressure level	Cooling	Nom.		dBA	83.4	81.2	82	82.7	83.5
Operation range	Air side	Cooling	Min.~Max.	°CDB	5 ~42				
Refrigerant	Type/GWP				R-513A/630				
	Charge			kg	215	230	245	260	270
	Circuits	Quantity			2				
Piping connections	Evaporator water inlet/outlet (OD)				273mm				
Unit	Starting current	Max		A	0				
	Running current	Cooling	Nom.	A	940.2	972.2	1,069	1,148	1,261
	current	Max		A	1,200	1,227	1,340	1,475	1,608
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400				

- | EWAS-TZSSD | | | | | 285 | 325 | 380 | 430 | 495 | 520 | 535 | |
|----------------------|------------------------------------|---------|-----------|-------|----------|------------------|--------|---------|---------|---------|---------|---------|
| SEER | | | | | 5.2 | 5.4 | 5.5 | 5.2 | 5.1 | 4.9 | 5.3 | |
| Cooling capacity | Nom. | | | | kW | 284.9 | 329.3 | 374.3 | 426.2 | 487.5 | 529.7 | |
| Power input | Cooling | Nom. | | | kW | 89.25 | 103.6 | 120.5 | 138.8 | 161.5 | 170.5 | |
| Capacity control | Method | | | | | Stepless | | | | | | |
| | Minimum capacity | | | | % | 22 | 19 | 17 | 22 | 23 | 22 | |
| EER | | | | | 3.192 | 3.179 | 3.106 | 3.071 | 3.019 | 3.033 | 3.107 | |
| IPLV | | | | | 5.5 | 5.6 | 5.7 | 5.8 | 5.6 | 5.2 | 5.7 | |
| Dimensions | Unit | Height | Width | Depth | mm | 2,553 | | | | | | |
| | | | | | mm | 2,238 | | | | | | |
| | | | | | 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 | | | | | | |
| Fan | Quantity | | | | | 1 | | | | 2 | | 1 |
| | Type | | | | | Direct propeller | | | | | | |
| | Quantity | | | | 6 | 8 | | | | 10 | | |
| | Air flow rate | Cooling | Nom. | | I/s | 38,240 | 50,990 | | | | 63,733 | |
| Sound power level | Cooling | Nom. | | | dBA | 97.8 | 98.3 | 100.2 | 97.7 | 97.1 | 99.3 | 98 |
| Sound pressure level | Cooling | Nom. | | | dBA | 78 | | 80 | 77.4 | 76.9 | 78.6 | 77.3 |
| Operation range | Air side | Cooling | Min.~Max. | | °CDB | -20 ~42 | | | | | | |
| Refrigerant | Type/GWP | | | | | R-513A/630 | | | | | | |
| | 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 | Cooling | Nom. | | A | 182.7 | 211.5 | 234.4 | 261.8 | 296.6 | 349.9 | 314.5 |
| | current | Max | | | A | 231 | 272 | 294 | 357 | 372 | 421 | 411 |
| Power supply | Phase/Frequency/Voltage | | | | Hz/V | 3~/50/400 | | | | | | |
- | EWAS-TZSSD | | | | | 555 | 585 | 595 | 645 | 650 | 705 | 760 | |
|----------------------|------------------------------------|---------|-----------|-------|----------|------------------|-------|---------|---------|---------|---------|-------|
| SEER | | | | | 5 | 4.9 | 5.2 | 5 | 5.2 | 4.9 | 5 | |
| Cooling capacity | Nom. | | | | kW | 553.9 | 583.2 | 585.6 | 645.1 | 635.1 | 702.3 | 758.2 |
| Power input | Cooling | Nom. | | | kW | 188.8 | 206.6 | 200.1 | 214.8 | 231 | 249.4 | 239.4 |
| Capacity control | Method | | | | | Stepless | | | | | | |
| | Minimum capacity | | | | % | 10 | | 19 | 10 | 17 | 10 | 13 |
| EER | | | | | 2.934 | 2.823 | 2.927 | 3.003 | 2.749 | 2.816 | 3.167 | |
| IPLV | | | | | 5.1 | | 5.6 | 5.2 | 5.5 | 5.1 | 5.7 | |
| Dimensions | Unit | Height | Width | Depth | mm | 2,553 | | | | | | |
| | | | | | mm | 2,238 | | | | | | |
| | | | | | mm | 5,800 | | | | 6,880 | 5,800 | 6,880 |
| 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 | | | | | | |
| Fan | Quantity | | | | 2 | 1 | | 2 | 1 | 2 | | |
| | Type | | | | | Direct propeller | | | | | | |
| | Quantity | | | | 10 | 12 | | 10 | 12 | | 14 | |
| | Air flow rate | Cooling | Nom. | | I/s | 63,733 | | 76,480 | 63,733 | 76,480 | 89,233 | |
| Sound power level | Cooling | Nom. | | | dBA | 99.5 | 100.7 | 98.4 | 100.9 | 100.7 | 103 | 99.2 |
| Sound pressure level | Cooling | Nom. | | | dBA | 78.7 | 79.9 | 77.7 | 79.8 | 80 | 819 | 77.7 |
| Operation range | Air side | Cooling | Min.~Max. | | °CDB | -20 ~42 | | | | | | |
| Refrigerant | Type/GWP | | | | | R-513A/630 | | | | | | |
| | 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 | Cooling | Nom. | | A | 378.9 | 409.6 | 358.4 | 427.8 | 404.3 | 472.9 | 461.3 |
| | current | Max | | | A | 450 | 481 | 467 | 523 | 474 | 566 | 610 |
| Power supply | Phase/Frequency/Voltage | | | | Hz/V | 3~/50/400 | | | | | | |



MicroTech 4



EWAD_H_S-TZ-D

EWAS-TZSSD				835	960	C10	H10	H11	H12	H13
SEER				5.2	5.3	5.2		5.3	5.4	
Cooling capacity	Nom.			832.7	948.8	1,001	1,043	1,149	1,268	1,359
Power input	Cooling	Nom.		274.7	321.4	354.4	375	408.9	436.8	477.3
Capacity control	Method			Stepless						
	Minimum capacity		%	11	12	11			10	
EER				3.031	2.952	2.824	2.781	2.81	2.903	2.847
IPLV				5.6	5.5	5.4	5.5	5.4	5.5	
Dimensions	Unit	Height		2,553						
		Width	mm	2,238						
		Depth	mm	7,960						
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						
	Air flow rate	Cooling	Nom.	89,233						
Sound power level	Cooling	Nom.	dBA	100.2	99.6	100.2	100.5	101	102.5	104.2
Sound pressure level	Cooling	Nom.	dBA	78.7	78	78.7	78.9	79.1	79.9	81.3
Operation range	Air side	Cooling	Min.~Max.	-20 ~42						
Refrigerant	Type/GWP			R-513A/630						
	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	Cooling	Nom.	A	514.3	585.7	635	666.1	720.5	834.6
	current	Max	A	679	706	761	789	884	948	1,187
Power supply	Phase/Frequency/Voltage		Hz/V	3~/50/400						

EWAS-TZSSD				H14	H15	H16	H17	H18	H19
SEER				5.2	5.5	5.4		5.3	5.1
Cooling capacity	Nom.			1,465	1,542	1,638	1,756	1,837	
Power input	Cooling	Nom.		526.1	516.5	577.2	627.5	695.5	
Capacity control	Method			Stepless					
	Minimum capacity		%	10	14	13	12	11	10
EER				2.785	2.985	2.838	2.798	2.641	
IPLV				5.4	6.1	5.9	5.8	5.7	5.5
Dimensions	Unit	Height	mm	2,553					
		Width	mm	2,238					
		Depth	mm	12,280					
Weight	Unit		kg	9,920	10,323			13,360	
	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					
	Air flow rate	Cooling	Nom.	140,213					
Sound power level	Cooling	Nom.	dBA	105.3	103.3	104.1	104.9	105.8	106.6
Sound pressure level	Cooling	Nom.	dBA	82.5	80.5	81.2	81.8	82.7	83.5
Operation range	Air side	Cooling	Min.~Max.	-20 ~42					
Refrigerant	Type/GWP			R-513A/630					
	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	Cooling	Nom.	A	910.1	894.9	984.4	1,062	1,163
	current	Max	A	1,156	1,124	1,227	1,351	1,475	1,608
Power supply	Phase/Frequency/Voltage		Hz/V	3~/50/400					

- | EWAS-TZXSD | | | | | 295 | 345 | 380 | 440 | 515 | 525 | 565 | |
|----------------------|------------------------------------|----------|-----------|------|------------------|--------|---------|---------|---------|---------|---------|-------|
| SEER | | | | | 5.2 | 5.4 | 5.5 | 5.2 | 5.1 | 5 | 5.3 | |
| Cooling capacity | Nom. | kW | | | 293.5 | 344.9 | 377.1 | 435.9 | 506.6 | 524.4 | 560.5 | |
| Power input | Cooling | kW | | | 94.89 | 108.5 | 124.1 | 127.6 | 159.3 | 155 | 171.5 | |
| Capacity control | Method | | | | Stepless | | | | | | | |
| | Minimum capacity | % | | | 22 | 19 | 17 | 28 | 23 | 13 | 22 | |
| EER | | | | | 3.093 | 3.179 | 3.039 | 3.416 | 3.18 | 3.383 | 3.268 | |
| IPLV | | | | | 5.8 | 6.1 | 5.9 | 6.3 | 6.1 | 6 | 6.5 | |
| 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 | | | | | | | |
| Fan | Quantity | | | | 1 | | | | | 2 | 1 | |
| | 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 | | 97.5 | 98.1 | 102.6 | 95.7 | 97.5 | 100.1 | | |
| Sound pressure level | Cooling | Nom. | dBA | | 79.9 | 81.8 | 82.8 | 74.6 | 75.8 | 78.9 | 76.2 | |
| Operation range | Air side | Cooling | Min.~Max. | °CDB | -20 ~42 | | | | | | | |
| Refrigerant | Type/GWP | | | | R-513A/630 | | | | | | | |
| | 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 | Cooling | Nom. | A | 198.1 | 227.3 | 247 | 258.3 | 305.8 | 334.1 | 331 | |
| | current | Max | A | A | 224 | 261 | 289 | 314 | 342 | 389 | 404 | |
| Power supply | Phase/Frequency/Voltage | | | | Hz/V | | | | | | | |
| EWAS-TZXSD | | | | | 565 | 610 | 635 | 670 | 705 | 725 | 760 | |
| SEER | | | | | 4.9 | 5 | 5.2 | 4.9 | 5.2 | 5 | 4.9 | |
| Cooling capacity | Nom. | kW | | | 560.5 | 610.4 | 626.7 | 665.8 | 696.1 | 719.7 | 749.1 | |
| Power input | Cooling | kW | | | 171.5 | 187.8 | 202.4 | 214.2 | 220.6 | 233.6 | 248.3 | |
| Capacity control | Method | | | | Stepless | | | | | | | |
| | Minimum capacity | % | | | 12 | 11 | 19 | 10 | 30 | 10 | 28 | |
| EER | | | | | 3.268 | 3.25 | 3.096 | 3.108 | 3.155 | 3.081 | 3.017 | |
| IPLV | | | | | 5.9 | 6 | 6.2 | 5.8 | 5.6 | 5.9 | 5.5 | |
| Dimensions | Unit | Height | mm | | | 2,553 | | | | | | |
| | | Width | mm | | | 2,238 | | | | | | |
| | | Depth | mm | | | 6,880 | 7960 | 6,880 | 7960 | 6,880 | 7960 | 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 | | | | | | | |
| Fan | Quantity | | | | 2 | | 1 | 2 | 1 | 2 | 1 | |
| | 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 | | 100.3 | 100.6 | 104.6 | 100.9 | 99 | 102.3 | 99.8 | |
| Sound pressure level | Cooling | Nom. | dBA | | 80.2 | 81.2 | 76.6 | 83.3 | 77.8 | 83.8 | 78.6 | |
| Operation range | Air side | Cooling | Min.~Max. | °CDB | -20 ~42 | | | | | | | |
| Refrigerant | Type/GWP | | | | R-513A/630 | | | | | | | |
| | 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 | Cooling | Nom. | A | 331 | 397.7 | 377.1 | 443.2 | 403.7 | 464.7 | 444.5 | |
| | current | Max | A | A | 429 | 457 | 452 | 498 | 520 | 535 | 568 | |
| Power supply | Phase/Frequency/Voltage | | | | Hz/V | | | | | | | |



MicroTech 4



EWAD_H_S-TZ-D

EWAS-TZXSD					805	880	950	C10	H10	H11	C12
SEER					5.2	5.3	5.2		5.3	5.4	
Cooling capacity	Nom.			kW	794.9	873.2	941.6	988.1	1,052	1,122	1,183
Power input	Cooling			kW	246.2	266.2	300.2	310.7	346.2	357.9	393.7
Capacity control	Method				Stepless						
	Minimum capacity			%	10	14	13	12	11		10
EER					3.229	3.28	3.137	3.18	3.039	3.135	3.005
IPLV					6	6.4	6.2	6.3	6.1	6.3	6.1
Dimensions	Unit	Height		mm	2,553						
		Width		mm	2,238						
		Depth		mm	9,040						
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						
	Air flow rate	Cooling	Nom.	l/s	90,480						
Sound power level	Cooling	Nom.		dBA	104.6	98.4	100.3	101	102.3	102.9	105.2
Sound pressure level	Cooling	Nom.		dBA	83.9	76.1	76.5	76.8	77.5	77.6	77.9
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~42						
Refrigerant	Type/GWP				R-513A/630						
	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	Cooling	Nom.	A	466.5	520.3	571.1	592.9	645.8	669.5	722.6
	current	Max		A	573	626	683	720	782	744	803
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400						

EWAS-TZXSD					H12	H13	H14	H15	H16	H17
SEER					5.2	5.5	5.4		5.3	5.1
Cooling capacity	Nom.			kW	1,267.2	1,344	1,442	1,551	1,645	1,734
Power input	Cooling			kW	426.7	452.1	446.3	503.1	562.8	628.6
Capacity control	Method				Stepless					
	Minimum capacity			%	10		15	14	13	12
EER					2.97	2.973	3.231	3.083	2.923	2.759
IPLV					6		6.1	6.2	6.1	5.9
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	124,388		135,696		
Sound power level	Cooling	Nom.		dBA	107.5	106.1	102	102.8	103.7	104.5
Sound pressure level	Cooling	Nom.		dBA	78	79.1	78.9	79.7	80.5	81.4
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~42					
Refrigerant	Type/GWP				R-513A/630					
	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	Cooling	Nom.	A	744.2	817.8	814.6	898.5	986.3	1,083
	current	Max		A	851	899	997	1,103	1,217	1,330
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400					

- | EWAS-TZXRD | | | | | 295 | 345 | 380 | 440 | 515 | 525 | 565 |
|----------------------|------------------------------------|---------|-----------|-------|------------------|--------|---------|---------|-------|---------|---------|
| Capacity control | Method | | | | Stepless | | | | | | |
| | Minimum capacity | | | | % | 22 | 19 | 17 | 28 | 23 | 13 |
| 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 | | 47,213 | | 56,660 | |
| Sound power level | Cooling | Nom. | dBA | 87.5 | 88.3 | 91.5 | 87.6 | 88.4 | 90.2 | | |
| Sound pressure level | Cooling | Nom. | dBA | 67.7 | 68.1 | 71.2 | 66.9 | 67.7 | 69 | | |
| Operation range | Air side | Cooling | Min.~Max. | °CDB | -20 ~42 | | | | | | |
| Refrigerant | Type/GWP | | | | R-134a/630 | | | | | | |
| | Charge | | | | kg | 40 | 45 | 50 | 60 | 70 | 75 |
| | Circuits | | | | Quantity | 1 | | | | | 2 |
| Piping connections | Evaporator water inlet/outlet (OD) | | | | 88.9mm | | | 139.7mm | | 168.3mm | 139.7mm |
| Unit | Starting current | | Max | A | 0 | | | | | | |
| | Running current | | Max | A | 224 | 261 | 289 | 314 | 342 | 389 | 404 |
| Power supply | Phase/Frequency/Voltage | | | Hz/V | 3~/50/400 | | | | | | |

EWAS-TZXRD				565	610	635	670	705	725	760	
Capacity control	Method			Stepless							
	Minimum capacity			%	12	11	19	10	30	10	28
Dimensions	Unit	Height	mm	2,553							
		Width	mm	2,238							
	Depth			mm	6,880	7960	6,880	7960	6,880	7960	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	66,098	56,660	66,098	56,660	66,098	56,660
Sound power level	Cooling	Nom.	dB(A)	90.3	90.8	93.4	91	89.6	919	90.1	
Sound pressure level	Cooling	Nom.	dB(A)	69.2		72.3	69.4	68.4	70.3	68.9	
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~42						
Refrigerant	Type/GWP			R-134a/630							
	Charge			kg	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	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

EWAS-TZXRD				805	880	950	C10	H10	H11	C12	
Capacity control	Method			Stepless							
	Minimum capacity			%	10	14	13	12	11	10	
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.	I/s	75,540			84,983		94,425	
Sound power level	Cooling	Nom.	dBA	93.7	89.9	90.9	91.5	92.3	92.8	94.4	
Sound pressure level	Cooling	Nom.	dBA	718	68	69	69.3	70	70.3	719	
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~42						
Refrigerant	Type/GWP			R-134a/630							
	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			Max	A	573	626	683	720	782	744
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400						

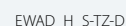
EWAS-TZXRD				H12	H13	H14	H15	H16	H17	
Capacity control	Method			Stepless						
	Minimum capacity			%	10		15	14	13	12
Dimensions	Unit	Height	mm	2,553						
		Width	mm	2,238						
		Depth	mm	11,200	12,280	13,360				
Weight	Unit	kg		8,436	9,775	10,925				
	Operation weight		kg	9,173	10,976	12,136	12,151	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.	I/s	94,425	103,868	113,320			
Sound power level	Cooling	Nom.	dBA	96.3	95.2	92.6	93.1	93.6	94.2	
Sound pressure level	Cooling	Nom.	dBA	73.7	72.4	69.5	70	70.5	71.1	
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~42					
Refrigerant	Type/GWP			R-134a/630						
	Charge			kg	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			Max	A	899		997	1,103	1,217
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400					

Inverter screw with PLATINUM efficiency. Standard sound.

- Refrigerant R-513A
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,850 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

				EWAS-TZPSD	285	330	370	405	450	490	
SEER					5.9	6	5.9	6.3	6.2		
Cooling capacity	Nom.			kW	2876	333.2	370.2	405.1	450.1	488.4	
Power input	Cooling	Nom.			kW	8189	96.83	1116	123.5	1375	
Capacity control	Method				Stepless						
	Minimum capacity			%	23	20	18	30	28	25	
EER					3.512	3.441	3.317	3.663	3.645	3.552	
IPLV					6.5		6.4	7	73	72	
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		67,848			
Sound power level	Cooling	Nom.			dBA	97.5	98.1	100.4	94.7	96	97.7
Sound pressure level	Cooling	Nom.			dBA	78.2	81	819	74.2	74.5	74.9
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~42						
Refrigerant	Type/GWP				R-513A/630						
	Charge			kg	40	45	50	55	60	65	
	Circuits	Quantity			1						
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm						
Unit	Starting current			Max	A	0					
	Running	Cooling	Nom.	A	181.1	212.7	238.2	242	258.8	280	
	current	Max			A	220	258	285	293	352	404
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400						

				EWAS-TZPSD	530	575	615	675	735		
SEER					6		5.9		5.8		
Cooling capacity	Nom.			kW	5317	573.6	620.2	677.1	732.9		
Power input	Cooling	Nom.			kW	150.8	167.7	180.9	205.7	223.4	
Capacity control	Method				Stepless						
	Minimum capacity			%	13	12	11	10			
EER					3.526	3.42	3.428	3.292	3.281		
IPLV					6.4		6.3	6.1	6.2		
Dimensions	Unit	Height		mm	2,553						
		Width		mm	2,238						
		Depth		mm	7960		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	100.2	100.4	100.7	101	102.3	
Sound pressure level	Cooling	Nom.			dBA	78.6	79.9	80.9	83	83.4	
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~42						
Refrigerant	Type/GWP				R-513A/630						
	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	Cooling	Nom.	A	332	3615	3912	434	459.1		
	current	Max			A	399	429	468	508	535	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400						



EWAS-TZPSD					810	890	960	C10	H10	H11	
SEER					6.1	6.3	6.1	6.2	6.1		
Cooling capacity	Nom.			kW	810	884.2	954	1,001	1,067	1,110	
Power input	Cooling	Nom.			kW	238.8	256.7	288.7	298.9	3319	
Capacity control	Method				Stepless						
	Minimum capacity				%	10	14	13	12	11	
EER					3.392	3.444	3.304	3.349	3.215	3.231	
IPLV					6.5	6.8	6.6		6.3	6.5	
Dimensions	Unit	Height	Width	mm	2,553						
				mm	2,238						
				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	
Air heat exchanger	Type				Microchannel						
Compressor	Type				Screw compressor						
	Quantity				2						
Fan	Type				Direct propeller						
	Quantity				18				20		22
Air flow rate Cooling Nom.					I/s	101,772				113,080	140,200
Sound power level	Cooling	Nom.			dBA	104.6	98.6	100.4	101.1	102.4	103
Sound pressure level	Cooling	Nom.			dBA	83.6	75.9	76.3	76.6	77.3	77.4
Operation range	Air side	Cooling	Min.~Max.		°CDB	-20 ~42					
Refrigerant	Type/GWP				R-513A/630						
	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	Cooling	Nom.		A	485.2	5119	559.9	581.2	630.4	653.8
	current	Max			A	573	616	672	709	761	796
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400					

EWAS-TZPSD					C12	H12	H13	H14	H15	
SEER					6	6.1	6	5.9	5.7	
Cooling capacity	Nom.			kW	1,197	1,288	1,363	1,443	1,552	
Power input	Cooling	Nom.			kW	434.6	410.7	433.6	435.6	
Capacity control	Method				Stepless					
	Minimum capacity				%	10		15	14	
EER					2.754	3.136	3.143	3.313	3.154	
IPLV					6.4	6.3	6.4	6.3	6.4	
Dimensions	Unit	Height	Width	mm	2,553					
				mm	2,238					
				mm	12,280			13,360		
Weight	Unit				kg	8,798	9,655	10,136		
	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.					I/s	140,200			152,945	
Sound power level	Cooling	Nom.			dBA	105.2	107.5	106.2	102	102.8
Sound pressure level	Cooling	Nom.			dBA	77.7	77.9	78.9		79.7
Operation range	Air side	Cooling	Min.~Max.		°CDB	-20 ~42				
Refrigerant	Type/GWP				R-513A/630					
	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	Cooling	Nom.		A	748.1	756.2	796.3	798.5	882
	current	Max			A	845	893	951	1,039	1,135
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400				

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- Performance monitoring
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

EWAS-TZPRD				285	330	370	405	450	490	
Capacity control	Method			Stepless						
	Minimum capacity			%	23	20	18	30	28	25
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	47,213			56,660	
Sound power level	Cooling	Nom.	dBA	88	88.7	90.1		87.8	88.2	88.9
Sound pressure level	Cooling	Nom.	dBA	67.7	68	69.4		66.6	67	67.8
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~42					
Refrigerant	Type/GWP			R-134a/630						
	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	Max	A	220	258	285	293	352	404	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400					
EWAS-TZPRD				530	575	615	675	735		
Capacity control	Method			Stepless						
	Minimum capacity			%	13	12	11	10		
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	66,098			75,540		
Sound power level	Cooling	Nom.	dBA	90.6	90.7	91.1		91.3	92.1	
Sound pressure level	Cooling	Nom.	dBA	69	69.1	69.2		69.4	70.2	
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~42					
Refrigerant	Type/GWP			R-134a/630						
	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	Max	A	399	429	468	508	535		
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400					



MicroTech 4



EWAD_H_S-TZ-D

EWAS-TZPRD					810	890	960	C10	H10	H11	
Capacity control	Method				Stepless						
	Minimum capacity				%	10	14	13	12	11	
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.	I/s	84,983			94,425		103,868	
Sound power level	Cooling	Nom.			dBA	93.9	90.3	91.2	91.8	92.5	93
Sound pressure level	Cooling	Nom.			dBA	71.6	68.1	68.9	69.2	69.9	70.2
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~42						
	Type/GWP				R-134a/630						
	Charge				kg	110	120	130	140	150	160
Piping connections	Circuits				Quantity	2					
	Evaporator water inlet/outlet (OD)				219.1mm						
	Unit	Starting current	Max	A	0						
Unit	Running	Max			A	573	616	672	709	761	796
	current										
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400					

EWAS-TZPRD					C12	H12	H13	H14	H15		
Capacity control	Method				Stepless						
	Minimum capacity				%	10			15	14	
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	11,457	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.	I/s	103,868			113,320			
Sound power level	Cooling	Nom.			dBA	94.5	96.4	95.4	92.6	93.1	
Sound pressure level	Cooling	Nom.			dBA	71.7	73.5	72.2	69.5	70	
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~42						
	Type/GWP				R-134a/630						
	Charge				kg	165	180	190	205	220	
Piping connections	Circuits				Quantity	2					
	Evaporator water inlet/outlet (OD)				219.1mm		273mm				
	Unit	Starting current	Max	A	0						
Unit	Running	Max			A	845	893	951	1,039	1,135	
	current										
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400					

