

Chillers

The ultimate in
reliability and flexibility



Air cooled Inverter screw free cooling 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
- Glycol free application
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

EWFD TZ-D BS		275	320	345	400	470	510	525
Cooling Capacity (1)	kW	369.3	428	465.2	559.3	6184	686.7	708.2
Power input (1)	kW	109.9	119	138	167.3	196	200.4	206.7
EER (1)		3.36	3.6	3.37	3.34	3.16	3.43	3.43
SEER (1)(2)		4.949	5.245	5.331	5.382	5.141	4.802	5.364
ηs,c (3)	%	195	207	210	212	203	189	212
SEPR (1)(2)		5.783	6.064	5.847	5.756	5.633	5.859	5.798
IPLV (5)		5.248	5.612	5.562	5.76	5.549	5.137	5.729
Full Free Cooling Temperature (12)	°C	3.27	7.12	5.99	3.08	1.21	4.5	3.97
Flow rate (1)	l/s	12.7	14.7	16	19.2	21.2	23.6	24.3
Evaporator Pressure Drop free cooling OFF (1)(6)	kPa	15.3	20.4	23.8	44.3	53.4	29.8	38.6
Unit pressure drop free cooling ON (1)(6)	kPa	96	74.3	85.2	128	154	96.4	115
Sound Power (1)(7)	Lw	97	98	100		97	99	98
	Lw with + OP76b	95		97		96	98	97
Number of circuits / Compressors				1			2	1
Water volume – open loop Free Cooling	Lt		40		42.7		270	58.1
Minimum Water flow rate (10)	l/s		7.6		5.94		8.6	10.2
Dimensions	Length	mm	2,560		3,640			4,720
	Width	mm				2,238		
	Height	mm				2,553		
Weight (8)	Unit (8)	kg	2,626	3,136	3,136	3,581	4,045	4,154
	Operating weight (8)	kg	2,847	3,432	3,432	3,907	3,917	4,662
Water Connection Size	Ø mm		88.9		139.7		168.3	139.7
Unit	Running Current (1)(8)(11)	A	178	192	220	270	312	327
	Max Running Current (7)(8)(11)	A	220	262	284	346	362	411
	Current for Wiring Sizing (8)(11)	A	242	287	287	381	398	440
	Max Inrush Current (8)(9)(11)	A				0		

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Cooling Capacity (1)	kW	369.3	428	465.2	559.3	6184	686.7
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SEPR (1)(2)		5.783	6.064	5.847	5.756	5.633	5.859
IPLV (5)		5.248	5.612	5.562	5.76	5.549	5.137
Full Free Cooling Temperature (12)	°C	3.27	7.12	5.99	3.08	1.21	4.5
Flow rate (1)	l/s	12.7	14.7	16	19.2	21.2	23.6
Evaporator Pressure Drop free cooling OFF (1)(6)	kPa	15.3	20.4	23.8	44.3	53.4	29.8
Unit pressure drop free cooling ON (1)(6)	kPa	96	74.3	85.2	128	154	96.4
Sound Power (1)(7)	Lw	97	98	100		97	99
	Lw with + OP76b	95		97		96	98
Number of circuits / Compressors				1			2
Water volume – open loop Free Cooling	Lt		40		42.7		270
Minimum Water flow rate (10)	l/s		7.6		5.94		8.6
Dimensions	Length	mm	2,560		3,640		4,720
	Width	mm				2,238	
	Height	mm				2,553	
Weight (8)	Unit (8)	kg	2,626	3,136	3,136	3,581	4,045
	Operating weight (8)	kg	2,847	3,432	3,432	3,907	3,917
Water Connection Size	Ø mm		88.9		139.7		168.3
Unit	Running Current (1)(8)(11)	A	178	192	220	270	312
	Max Running Current (7)(8)(11)	A	220	262	284	346	362
	Current for Wiring Sizing (8)(11)	A	242	287	287	381	398
	Max Inrush Current (8)(9)(11)	A				0	

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C; Fluid Ethylene glycol 25%, Fouling factor = 0; (2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow; (3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03); (4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application; (5) Based on AHRI conditions; (6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory; (7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511-2 Outdoor Heat exchanger inlet dry bulb temperature 35°C; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C; (8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values; (9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans. Value intended as guideline. Refer to unit nameplate for specific value; (10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water; (11) Value referred to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%; (12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.



MicroTech 4



EWFD TZ-D BS			755	830	915	C10	H10	H11	C12	
Cooling Capacity (1)			kW	1,017.5	1,112.2	1,216.3	1,554.9	1,438.6	1,558.6	1,664.1
Power input (1)			kW	281.5	324.5	362.9	473.1	450.4	475.5	504.9
EER (1)				3.61	3.43	3.35	3.290	3.190	3.280	3.300
SEER (1)(2)				5.456	5.327	5.217	5.132	5.282	5.362	5.458
ηs,c (3)			%	215	210	206	202	208	211	215
SEPR (1)(2)				6.05	5.862	5.92	5.605	5.674	5.684	5.713
IPLV (5)				5.839	5.674	5.628	5.474	5.650	5.783	5.753
Full Free Cooling Temperature (12)			°C	4.67	3.14	15	-0.01	133	165	3.22
Flow rate (1)			l/s	34.9	38.1	41.7	53.3	49.3	53.5	57.1
Evaporator Pressure Drop free cooling OFF (1)(6)			kPa	49.6	56.8	42.1	55.1	48.9	55.3	61.5
Unit pressure drop free cooling ON (1)(6)			kPa	120	141	140	199	150	147	145
Sound Power (1)(7)			Lw	dB(a)	99	100	99	100	101	102
Lw with + OP76b			dB(a)	99			100		101	
Number of circuits / Compressors				2						
Water volume – open loop Free Cooling			Lt	280	481			557		
Minimum Water flow rate (10)			l/s	12.9	15.3			182		
Dimensions	Length	mm	6,880				7,960	9,040	10,120	
	Width	mm	2,238							
	Height	mm	2,553							
Weight (8)	Unit (8)	kg	5,549		5,806		6,427	6,936	7,446	
	Operating weight (8)	kg	6,341	6,351	6,819	6,834	7,606	8,191	8,776	
Water Connection Size			Ø mm	168.3			219.1			
Unit	Running Current (1)(8)(11)	A	460	524	582	745	712	749	792	
	Max Running Current (7)(8)(11)	A	600	668		751	817	884	930	
	Current for Wiring Sizing (8)(11)	A	660	735	735	826	896	935	947	
	Max Inrush Current (8)(9)(11)	A	0							

EWFD TZ-D BS			C13	C14	C15	H16	H17	H18	H19	
Cooling Capacity (1)			kW	1,798.7	1,884.6	2,067.5	2,175.4	2,269.8	2,450.5	2,554.3
Power input (1)			kW	555.2	608.0	657.0	673.3	743.2	827.9	956.3
EER (1)				3.240	3.100	3.150	3.230	3.050	2.960	2.670
SEER (1)(2)				5.392	5.299	5.339	5.414	5.336	5.185	5.225
ηs,c (3)			%	213	209	211	214	210	204	206
SEPR (1)(2)				5.399	5.436	5.373	6.629	6.410	6.167	5.992
IPLV (5)				5.705	5.579	5.589	5.971	5.829	5.779	5.685
Full Free Cooling Temperature (12)			°C	3.66	2.85	2.9	1.98	1.25	1.34	0.53
Flow rate (1)			l/s	61.7	64.6	70.9	74.6	77.8	84.0	87.6
Evaporator Pressure Drop free cooling OFF (1)(6)			kPa	69.4	74.9	51.2	55.5	59.3	66.1	70.8
Unit pressure drop free cooling ON (1)(6)			kPa	148	160	137	150	161	166	179
Sound Power (1)(7)			Lw	dB(a)	104	105	105	104	105	107
Lw with + OP76b			dB(a)	101	102					
Number of circuits / Compressors				2						
Water volume – open loop Free Cooling			Lt	557	1,011					
Minimum water flow rate (10)			l/s	182	22.6					
Dimensions	Length	mm	11,200			12,280		13,360		
	Width	mm	2,238							
	Height	mm	2,553							
Weight (8)	Unit (8)	kg	7,956	8,277	9,157	9,561		10,070		
	Operating weight (8)	kg	9,366	9,697	11,117	11,535	11,550	12,140	12,150	
Water Connection Size			Ø mm	219.1		273				
Unit	Running Current (1)(8)(11)	A	867	954	1,027	1,051	1,162	1,287	1,477	
	Max Running Current (7)(8)(11)	A	948	1,120	1,200	1,227	1,340	1,475	1,608	
	Current for Wiring Sizing (8)(11)	A	958	1,232	1,275	1,280	1,474	1,621		
	Max Inrush Current (8)(9)(11)	A	0							

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C; Fluid Ethylene glycol 25%, Fouling factor = 0; (2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow; (3) The seasonal space cooling energy efficiency η_{s,c} is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03); (4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application; (5) Based on AHRI conditions; (6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory; (7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C; (8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values; (9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans. Value intended as guideline. Refer to unit nameplate for specific value; (10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water; (11) Value referred to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%; (12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

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EWFD TZ-D SS		285	325	380	430	495	520	535
Cooling Capacity (1)	kW	382	442.2	497.8	565	668.2	698.1	726
Power input (1)	kW	98.8	115.8	134.6	156	185.9	189.7	198.4
EER (1)		3.87	3.82	3.7	3.62	3.6	3.68	3.66
SEER (1)(2)		5.263	5.535	5.711	5.727	5.422	5.128	5.459
η _{s,c} (3)	%	208	218	225	226	214	202	215
SEPR (1)(2)		6.279	6.358	6.233	6.068	6.048	5.816	6.077
IPLV (5)		5.706	5.873	5.918	6.074	5.885	5.419	6.016
Full Free Cooling Temperature (12)	°C	8.55	10.12	8.82	7.25	4.91	7.4	6.88
Flow rate (1)	l/s	13.1	15.2	17.1	19.4	22.9	23.9	24.9
Evaporator Pressure Drop free cooling OFF (1)(6)	kPa	16.3	17.7	35.8	45.1	34.8	31.2	40.5
Unit pressure drop free cooling ON (1)(6)	kPa	61.5	53.6	103	98.4	104	84.4	96.1
Sound Power (1)(7)	Lw	98	98	100	98	97	99	98
	Lw with + OP76b	96	98	97	99	98	99	98
Number of circuits / Compressors		1			2			1
Water volume – open loop Free Cooling	Lt	40	48	42.7	58.1	270	58.1	58.1
Minimum Water flow rate (10)	l/s	7.6	8.5	5.94	10.2	8.6	10.2	10.2
Dimensions	Length	mm	3,640	4,720	5,800	5,800	5,800	5,800
	Width	mm	2,238	2,238	2,238	2,238	2,238	2,238
	Height	mm	2,553	2,553	2,553	2,553	2,553	2,553
Weight (8)	Unit (8)	kg	3,136	3,675	4,090	4,154	4,555	4,664
	Operating weight (8)	kg	3,427	4,045	4,050	4,487	4,576	5,237
Water Connection Size	Ø mm	88.9	139.7	168.3	139.7	168.3	139.7	139.7
Unit	Running Current (1)(8)(11)	A	161	187	215	253	297	311
	Max Running Current (7)(8)(11)	A	231	272	294	357	372	421
	Current for Wiring Sizing (8)(11)	A	254	298	392	410	463	452
	Max Inrush Current (8)(9)(11)	A	0	0	0	0	0	0

EWFD TZ-D SS		555	585	595	650	645	705
Cooling Capacity (1)	kW	747.7	789.3	796.9	872.4	876.4	963
Power input (1)	kW	208	229	231.2	270.8	241.3	288.9
EER (1)		3.6	3.45	3.45	3.22	3.63	3.33
SEER (1)(2)		5.08	4.983	5.357	5.32	5.147	5.032
η _{s,c} (3)	%	200	196	211	210	203	198
SEPR (1)(2)		5.179	5.696	5.772	5.472	6.044	5.708
IPLV (5)		5.361	5.308	5.826	5.63	5.508	5.424
Full Free Cooling Temperature (12)	°C	6.49	5.74	5.6	4.23	6.78	5.49
Flow rate (1)	l/s	25.6	27.1	27.3	29.9	30.1	33
Evaporator Pressure Drop free cooling OFF (1)(6)	kPa	34.9	38.1	48.1	56.8	34.5	40.3
Unit pressure drop free cooling ON (1)(6)	kPa	93.8	101	112	131	90.6	105
Sound Power (1)(7)	Lw	99	101	98	101	101	108
	Lw with + OP76b	99	99	98	98	100	100
Number of circuits / Compressors		2	1	1	2	2	2
Water volume – open loop Free Cooling	Lt	270	58.1	58.1	255	255	255
Minimum Water flow rate (10)	l/s	8.6	10.2	10.2	10.7	10.7	10.7
Dimensions	Length	mm	5,800	5,800	6,880	6,880	6,880
	Width	mm	2,238	2,238	2,238	2,238	2,238
	Height	mm	2,553	2,553	2,553	2,553	2,553
Weight (8)	Unit (8)	kg	4,555	4,664	5,083	5,083	5,840
	Operating weight (8)	kg	5,242	5,247	5,166	5,176	5,835
Water Connection Size	Ø mm	168.3	139.7	139.7	168.3	168.3	168.3
Unit	Running Current (1)(8)(11)	A	338	370	365	423	388
	Max Running Current (7)(8)(11)	A	450	481	467	474	523
	Current for Wiring Sizing (8)(11)	A	495	528	480	572	566
	Max Inrush Current (8)(9)(11)	A	0	0	0	0	0

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C; Fluid Ethylene glycol 25%, Fouling factor = 0; (2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow; (3) The seasonal space cooling energy efficiency η_{s,c} is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03); (4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application; (5) Based on AHRI conditions; (6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory; (7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511-2 Outdoor Heat exchanger inlet dry bulb temperature 35°C; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C; (8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values; (9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans. Value intended as guideline. Refer to unit nameplate for specific value; (10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water; (11) Value referred to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%; (12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.



MicroTech 4



EWFD TZ-D SS		760	835	960	C10	H10	H11	H12
Cooling Capacity (1)	kW	1,006.2	1,119.7	1,280.8	1,356.0	1,402.2	1,554.9	1,712.6
Power input (1)	kW	264.1	311.5	365.7	406.7	429.1	473.1	506.7
EER (1)		3.81	3.6	3.5	3.330	3.270	3.290	3.380
SEER (1)(2)		5.659	5.558	5.444	5.349	5.338	5.362	5.492
η _{s,c} (3)	%	223	219	215	211	211	211	217
SEPR (1)(2)		6.322	6.015	6.062	5.618	5.613	5.684	5.764
IPLV (5)		6.045	5.875	5.8	5.680	5.709	5.697	5.967
Full Free Cooling Temperature (12)	°C	7	5.55	3.4	2.36	1.78	2.28	5.01
Flow rate (1)	l/s	34.5	38.4	43.9	46.5	48.1	53.3	58.7
Evaporator Pressure Drop free cooling OFF (1)(6)	kPa	48.3	58.1	44.8	49.0	46.9	55.1	63.9
Unit pressure drop free cooling ON (1)(6)	kPa	104	123	123	137	140	146	133
Sound Power (1)(7)	Lw	99		100		101		102
	Lw with + OP76b				100			101
Number of circuits / Compressors					2			
Water volume – open loop Free Cooling	Lt	280		481		557		
Minimum Water flow rate (10)	l/s	12.9		15.3		18.2		
Dimensions	Length			7960			9,040	11,200
	Width				2,238			
	Height				2,553			
Weight (8)	Unit (8)		6,059	6,316	6,316	6,427	6,936	7,956
	Operating weight (8)	6,916	6,926	7,404	7,409	7,601	8,191	9,356
Water Connection Size	Ø mm		168.3			219.1		
Unit	Running Current (1)(8)(11)	A	434	505	586	647	680	745
	Max Running Current (7)(8)(11)	A	610	679	706	761	789	884
	Current for Wiring Sizing (8)(11)	A	671	747	776	837	868	935
	Max Inrush Current (8)(9)(11)	A			0			

EWFD TZ-D SS		H13	H14	H15	H16	H17	H18	H19
Cooling Capacity (1)	kW	1,849.0	1,998.9	2,057.0	2,175.4	2,344.7	2,450.5	2,554.3
Power input (1)	kW	561.0	622.3	572.2	673.3	732.0	827.9	956.3
EER (1)		3.300	3.210	3.600	3.230	3.200	2.960	2.670
SEER (1)(2)		5.510	5.340	5.382	5.414	5.408	5.185	5.225
η _{s,c} (3)	%	217	211	212	214	213	204	206
SEPR (1)(2)		5.503	5.524	6.997	6.629	6.471	6.167	5.992
IPLV (5)		5.764	5.690	6.081	5.971	5.891	5.779	5.685
Full Free Cooling Temperature (12)	°C	4.8	3.52	3.03	1.98	2.18	1.34	0.53
Flow rate (1)	l/s	63.4	68.6	70.5	74.6	80.4	84.0	87.6
Evaporator Pressure Drop free cooling OFF (1)(6)	kPa	72.6	48.6	50.8	55.5	61.4	66.1	70.8
Unit pressure drop free cooling ON (1)(6)	kPa	141	129	136	150	154	166	179
Sound Power (1)(7)	Lw	104	105	108	104	105	106	107
	Lw with + OP76b				102			
Number of circuits / Compressors					2			
Water volume – open loop Free Cooling	Lt	557			1,011			
Minimum Water flow rate (10)	l/s	182			22.6			
Dimensions	Length			12,280			13,360	
	Width				2,238			
	Height				2,553			
Weight (8)	Unit (8)	8,465	9,157	9,561	9,561		10,070	
	Operating weight (8)	9,945	11,107	11,520	11,535	12,130	12,140	12,150
Water Connection Size	Ø mm	219.1	273	273	273	273	273	273
Unit	Running Current (1)(8)(11)	A	875	975	901	1,051	1,145	1,287
	Max Running Current (7)(8)(11)	A	1,187	1,156	1,124	1,227	1,351	1,475
	Current for Wiring Sizing (8)(11)	A	1,248	1,271	1,237	1,280	1,486	1,621
	Max Inrush Current (8)(9)(11)	A			0			

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C; Fluid Ethylene glycol 25%, Fouling factor = 0; (2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow; (3) The seasonal space cooling energy efficiency η_{s,c} is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03); (4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application; (5) Based on AHRI conditions; (6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory; (7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C; (8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values; (9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans. Value intended as guideline. Refer to unit nameplate for specific value; (10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water; (11) Value referred to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%; (12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

- | EWFD-TZXSD | | | | | 10TXSD2000 | 10TXSD2000 | 11TXSD2000 | 12TXSD2000 | 12TXSD2000 | 13TXSD2000 | 14TXSD2000 | 15TXSD2000 | 16TXSD2000 | 17TXSD2000 | |
|----------------------|------------------------------------|----------|------------------|------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--|
| SEER | | | | | 5.952 | 6.099 | 5.419 | 5.809 | 6 | 5.981 | 5.69 | 5.512 | 5.517 | 5.368 | |
| Cooling capacity | Nom. | | kW | | 141538 | 1345.28 | 1524.63 | 1730.56 | 162186 | 1814.3 | 1952.16 | 2065.72 | 2200.84 | 2323.94 | |
| Power input | Cooling | | kW | | 396.8 | 356.55 | 415.43 | 509.14 | 46194 | 535.19 | 490.74 | 57766 | 660.12 | 760.95 | |
| Capacity control | Method | | | | | | | | | | | | | | |
| | Minimum capacity | | % | | 10.5 | 11.5 | 10.5 | | 10 | | 15 | 13.5 | 12.5 | 11.5 | |
| EER | | | | | 3.57 | 3.77 | 3.67 | 3.4 | 3.51 | 3.39 | 3.98 | 3.58 | 3.33 | 3.05 | |
| IPLV | | | | | 6.418 | 6.591 | 6.605 | 6.38 | 6.44 | 6.347 | 6.404 | 6.197 | 6.076 | 5.915 | |
| Dimensions | Unit | Height | mm | | 2,553 | | | | | | | | | | |
| | | Width | mm | | 2,238 | | | | | | | | | | |
| | | Depth | mm | | 10,120 | | 11,200 | | 12,280 | | 13,360 | | | | |
| Weight | Unit | | | kg | 7,390 | | 8,011 | | 8,892 | | 10,070 | | | | |
| | Operation weight | | kg | | 8,619 | 8,609 | 9,391 | 9,416 | 9,401 | 10826 | 12,080 | 12,095 | 12,110 | 12125 | |
| Air heat exchanger | Type | | Microchannel | | | | | | | | | | | | |
| Compressor | Type | | Screw compressor | | | | | | | | | | | | |
| | Quantity | | 2 | | | | | | | | | | | | |
| Fan | Type | | Direct propeller | | | | | | | | | | | | |
| | Quantity | | | | 18 | | 20 | | 22 | | 24 | | | | |
| | Air flow rate | Cooling | Nom. | l/s | 11,385 | | 12,650 | | 13,915 | | 15,180 | | | | |
| Sound power level | Cooling | Nom. | dBA | | 102.3 | 101 | 102.9 | 107.5 | 105.2 | 106.1 | 102 | 102.8 | 103.7 | 104.5 | |
| Sound pressure level | Cooling | Nom. | dBA | | 77.5 | 76.8 | 77.6 | 78 | 77.9 | 79.1 | 78.9 | 79.7 | 80.5 | 81.4 | |
| Operation range | Air side | Cooling | Min.~Max. | °CDB | -20 ~46 | | | | | | | | | | |
| Refrigerant | Type/GWP | | R-134A/1,430 | | | | | | | | | | | | |
| | Charge | | kg | | 145 | 135 | 155 | 180 | 165 | 190 | 200 | 215 | 230 | 245 | |
| | Circuits | Quantity | | | | | | | | | | | | | |
| Piping connections | Evaporator water inlet/outlet (OD) | | | | 2 | | | | | | | | | | |
| Unit | Starting current | | | | 0 | | | | | | | | | | |
| | Running current | Cooling | Nom. | | 632 | 572 | 660 | 799 | 729 | 837 | 780 | 909 | 1,031 | 1,188 | |
| | | Max | | | 782 | 720 | 744 | 851 | 803 | 899 | 997 | 1,103 | 1,217 | 1,330 | |
| Power supply | Phase/Frequency/Voltage | | | | 3/50/400 | | | | | | | | | | |

				EWFD	295TZKSD1000	345TZKSD1000	380TZKSD1000	440TZKSD1000	515TZKSD1000	525TZKSD2000	565TZKSD2000	565TZKSD1000	610TZKSD2000	635TZKSD1000
SEER					5.53	5.77	5.694	6.127	5.991	5.812	5.746	6.002	5.825	5.971
Cooling capacity	Nom.			kW	401.17	469.25	513.31	60195	696.19	726.87	780.49	745.59	81611	855.97
Power input	Cooling			kW	107.12	119.37	140.94	143.9	183.64	172.98	192.57	190.54	203.72	235.03
Capacity control	Method				Stepless									
	Minimum capacity			%	215	19	16.5	27.5	23	12.5	11.5	21.5	10.5	19
EER					3.74	3.93	3.64	4.18	3.79	4.2	4.05	3.91	4.01	3.64
IPLV					6.087	6.309	6.223	6.763	6.548	6.305	6.193	6.747	6.275	6.544
Dimensions	Unit	Height		mm	2,553									
		Width		mm	2,238									
		Depth		mm	3,640	4,720		5,800		6,880		7960		6,880
Weight	Unit			kg	3,307	3,846		4,720		5,254		5,315	5,763	5,315
	Operation weight			kg	3,598	4,216	4,221	5,202	5,212	5,986	5,996	5,897	6,576	5,907
Air heat exchanger	Type				Microchannel									
Compressor	Type				Screw compressor									
	Quantity				1					2		1	2	1
Fan	Type				Direct propeller									
	Quantity				6	8		10		12			14	12
	Air flow rate	Cooling	Nom.	l/s	3,795	5,060		6,325		7,590			8,855	7,590
Sound power level	Cooling	Nom.		dBA	97.5	98.1	102.6	95.7	97.5	100.1	100.3	100.1	100.6	104.6
Sound pressure level	Cooling	Nom.		dBA	79.9	81.8	82.8	74.6	75.8	78.9	80.2	76.2	81.2	76.6
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46									
Refrigerant	Type/GWP				R-134A/1,430									
	Charge			kg	40	45	50	60	70		80	75	85	
	Circuits	Quantity			1					2		1	2	1
Piping connections	Evaporator water inlet/outlet (OD)				88.9		139.7		168.3		139.7		168.3	139.7
Unit	Starting current	Max			0									
	Running current	Cooling	Nom.		174	192	224	235	294	286	315	304	332	370
	current	Max			224	261	289	314	342	389	429	404	457	452
Power supply	Phase/Frequency/Voltage				3/50/400									



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					EWFD	670TZXSD2000	705TZXSD1000	725TZXSD2000	760TZXSD1000	805TZXSD2000	880TZXSD2000	950TZXSD2000
SEER						5.719	5.379	5.728	5.305	5.937	6.09	5.977
Cooling capacity	Nom.				kW	88731	93188	96182	1,005.8	1,092.87	1,196.64	1,293.63
Power input	Cooling				kW	230.65	236.46	257.52	284.2	284.08	310.25	35795
Capacity control	Method					Stepless						
	Minimum capacity				%	10	30	10	275	10	13.5	12.5
EER						3.85	3.94	3.73	3.54	3.85	3.86	3.61
IPLV						6.135	5.859	6.225	5.769	6.482	6.614	6.459
Dimensions	Unit	Height			mm	2,553						
		Width			mm	2,238						
		Depth			mm	7960	6,880	7960	6,880	9,040		
Weight	Unit				kg	5,763	5,984	5,834	5,984	6,624	6,881	
	Operation weight				kg	6,581	6,586	6,704	6,596	7,753	8,019	8,029
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					2	1	2	1	2		
Fan	Type					Direct propeller						
	Quantity					14	12	14	12	16		
	Air flow rate	Cooling	Nom.		l/s	8,855	7,590	8,855	7,590	10,120		
Sound power level	Cooling	Nom.			dB(A)	100.9	99	102.3	99.8	104.6	98.4	100.3
Sound pressure level	Cooling	Nom.			dB(A)	83.3	77.8	83.8	78.6	83.9	76.1	76.5
Operation range	Air side	Cooling	Min.~Max.		°CDB	-20 ~46						
Refrigerant	Type/GWP					R-134A/1,430						
	Charge				kg	90	95	100	105	110	120	130
	Circuits	Quantity				2	1	2	1	2		
Piping connections	Evaporator water inlet/outlet (OD)					168.3	139.7	168.3	139.7	219.1		
Unit	Starting current	Max				0						
	Running current	Cooling	Nom.			372	377	412	448	452	503	574
		Max				498	520	535	568	573	626	683
Power supply	Phase/Frequency/Voltage					3/50/400						

- | | | | | EWFD | 10TZPSD2000 | 10TZPSD2000 | 11TZPSD2000 | 12TZPSD2000 | 12TZPSD2000 | 13TZPSD2000 | 14TZPSD2000 | 15TZPSD2000 | 285TZPSD1000 | 330TZPSD1000 | |
|----------------------|------------------------------------|----------|-----------|------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|----|
| SEER | | | | | 6.411 | 6.274 | 6.44 | 6.189 | 6.286 | 6.18 | 5.85 | 5.671 | 6.018 | 6.229 | |
| Cooling capacity | Nom. | | | kW | 1,326.86 | 1,449.2 | 1,496.98 | 1,734.57 | 1,619.43 | 1,847.58 | 1,954.24 | 2,069.82 | 384.11 | 452.16 | |
| Power input | Cooling | | | kW | 330.48 | 382.27 | 378.98 | 481.29 | 433.58 | 517.97 | 481.1 | 565.53 | 87.52 | 104.14 | |
| Capacity control | Method | | | | Stepless | | | | | | | | | | |
| | Minimum capacity | | | % | 11.5 | 10.5 | | 10 | | | 15 | 13.5 | 23 | 20 | |
| EER | | | | | 4.01 | 3.79 | 3.95 | 3.6 | 3.73 | 3.57 | 4.06 | 3.66 | 4.39 | 4.34 | |
| IPLV | | | | | 6.876 | 6.739 | 6.964 | 6.639 | 6.778 | 6.674 | 6.585 | 6.367 | 6.73 | 6.82 | |
| Dimensions | Unit | Height | | mm | 2,553 | | | | | | | | | | |
| | | Width | | mm | 2,238 | | | | | | | | | | |
| | | Depth | | mm | 11,200 | | 12,280 | | | | 13,360 | | 4,720 | 5,800 | |
| Weight | Unit | | | kg | 7900 | | 8,521 | 8,892 | 8,521 | 9,402 | 10,070 | | 3,846 | 4,356 | |
| | Operation weight | | | kg | 9,189 | 9,199 | 9,971 | 10,816 | 9,976 | 11,401 | 12,085 | 12,100 | 4,211 | 4,791 | |
| Air heat exchanger | Type | | | | Microchannel | | | | | | | | | | |
| Compressor | Type | | | | Screw compressor | | | | | | | | | | |
| | Quantity | | | | 2 | | | | | | | | | 1 | |
| Fan | Type | | | | Direct propeller | | | | | | | | | | |
| | Quantity | | | | 20 | | 22 | | | | 24 | | 8 | 10 | |
| | Air flow rate | Cooling | Nom. | l/s | 12,650 | | 13,915 | | | | 15,180 | | 5,060 | 6,325 | |
| Sound power level | Cooling | Nom. | | dBA | 101.1 | 102.4 | 103 | 107.5 | 105.2 | 106.2 | 102 | 102.8 | 97.5 | 98.1 | |
| Sound pressure level | Cooling | Nom. | | dBA | 76.6 | 77.3 | 77.4 | 77.9 | 77.7 | 78.9 | | 79.7 | 78.2 | 81 | |
| Operation range | Air side | Cooling | Min.~Max. | °CDB | -20 ~46 | | | | | | | | | | |
| Refrigerant | Type/GWP | | | | R-134A/1,430 | | | | | | | | | | |
| | Charge | | | | kg | 140 | 150 | 160 | 180 | 165 | 190 | 205 | 220 | 40 | 45 |
| | Circuits | Quantity | | | | 2 | | | | | | | | | 1 |
| Piping connections | Evaporator water inlet/outlet (OD) | | | | 219.1 | | | 273 | 219.1 | 273 | | | 88.9 | | |
| Unit | Starting current | Max | | | 0 | | | | | | | | | | |
| | Running current | Cooling | Nom. | | 637 | 685 | 605 | 757 | 687 | 812 | 766 | 891 | 145 | 169 | |
| | | Max | | | 709 | 761 | 796 | 893 | 845 | 951 | 1,039 | 1,135 | 220 | 258 | |
| Power supply | Phase/Frequency/Voltage | | | | 3/50/400 | | | | | | | | | | |

				EWFD	370TZPSD1000	405TZPSD1000	450TZPSD1000	490TZPSD1000	530TZPSD2000	575TZPSD2000	615TZPSD2000	675TZPSD2000	735TZPSD2000	810TZPSD2000
SEER					6.138	6.369	6.325	6.262	6.194	6.108	6.056	5.971	6.024	6.262
Cooling capacity	Nom.			kW	500.07	559.54	62198	642	730.72	792.78	81177	919.56	998.68	1,105.28
Power input	Cooling			kW	122.84	121.3	138.19	138.4	166.83	187.02	187.35	220.31	252.26	263.6
Capacity control	Method				Stepless									
	Minimum capacity			%	17.5	30	27.5	25	12.5	11.5	10.5	10		
EER					4.07	4.61	4.5	4.64	4.38	4.24	4.33	4.17	3.96	4.19
IPLV					6.691	7.327	7.623	7.171	6.719	6.613	6.593	6.435	6.529	6.853
Dimensions	Unit	Height		mm	2,553									
		Width		mm	2,238									
		Depth		mm	5,800	6,880			7,960			9,040		10,120
Weight	Unit			kg	4,356	5,229	5,315		5,763		6,273		6,344	7,134
	Operation weight			kg	4,796	5,771	5,882	5,887	6,566	6,571	7,151	7,161	7,279	8,327
Air heat exchanger	Type				Microchannel									
Compressor	Type				Screw compressor									
	Quantity				1				2					
Fan	Type				Direct propeller									
	Quantity				10	12			14		16			18
	Air flow rate	Cooling	Nom.	l/s	6,325	7,590			8,855		10,120			11,385
Sound power level	Cooling	Nom.		dBA	100.4	94.7	96	97.7	100.2	100.4	100.7	101	102.3	104.6
Sound pressure level	Cooling	Nom.		dBA	819	74.2	74.5	749	78.6	79.9	80.9	83	83.4	83.6
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46									
Refrigerant	Type/GWP				R-134A/1,430									
	Charge			kg	50	55	60	65	75	80	85	95	100	110
	Circuits	Quantity			1				2					
Piping connections	Evaporator water inlet/outlet (OD)				88.9	139.7			168.3					219.1
Unit	Starting current	Max			0									
	Running current	Cooling	Nom.		197	201	226		277	307	308	357	404	421
	current	Max			285	293	352	404	399	429	468	508	535	573
Power supply	Phase/Frequency/Voltage				3/50/400									



MicroTech 4



				EWFD	890TZPSD2000		960TZPSD2000	
SEER					6.488		6.363	
Cooling capacity	Nom.			kW	1,177.66		1,275.17	
Power input	Cooling			kW	282.75		320.56	
Capacity control	Method				Stepless			
	Minimum capacity			%	13.5		12.5	
EER					4.16		3.98	
IPLV					70.78		6.894	
Dimensions	Unit	Height		mm	2,553			
		Width		mm	2,238			
		Depth		mm	10,120			
Weight	Unit			kg	7,390			
	Operation weight			kg	8,594		8,604	
Air heat exchanger	Type				Microchannel			
Compressor	Type				Screw compressor			
	Quantity				2			
Fan	Type				Direct propeller			
	Quantity				18			
	Air flow rate	Cooling	Nom.	l/s	11,385			
Sound power level	Cooling	Nom.		dBA	98.6		100.4	
Sound pressure level	Cooling	Nom.		dBA	75.9		76.3	
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46			
Refrigerant	Type/GWP				R-134A/1,430			
	Charge			kg	120		130	
	Circuits	Quantity			2			
Piping connections	Evaporator water inlet/outlet (OD)				219.1			
Unit	Starting current	Max			0			
	Running current	Cooling	Nom.		462		519	
		Max			616		672	
Power supply	Phase/Frequency/Voltage				3/50/400			



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