



**R-134a**

**R-1234ze**

**R-513A**

# J-Series

Water cooled screw chillers



Compact water cooled chiller line



## Packaged unit

Cooling capacity ranges: 115 - 212 kW  
 Heating capacity ranges: 140 - 388 kW



Compact line with single refrigerant circuit

**R-134a**

**R-51**





# Condenserless unit

Cooling capacity ranges: 110 - 268 kW



**3A R-1234ze**

For comfort, high temperatures and industrial process applications

Chilled water temperatures down to -10°C on standard unit

Highest efficiency in the market in its category



# Water cooled screw chiller, standard efficiency, standard sound

Optimized for R-134a, the Daikin screw heat pump EWWD-J is a water to water heat pump reversible on water side standing out for its compactness and reliability

- › Compact design to allow easy indoor installation or retrofit operations
- › Daikin semi-hermetic single screw stepless compressor
- › High energy efficiency both at full and part load conditions
- › Chilled water temperatures down to -10°C on standard unit
- › MicroTech 4 controller with superior control logic and easy interface
- › Cooling capacity range: 115 – 272 kW
- › Heating capacity range: 140 – 388 kW
- › EER: up to 3.84
- › SCOP: up to 4.68
- › IPLV: up to 4.67



Cooling & Heating				EWWD-J-SS							
				120	140	150	180	210	250	280	
Space heating	Average climate water outlet 35°C	General	SCOP	4.40	4.34	4.14	4.15	4.24	4.46	4.21	
Cooling capacity	Nom.		kW	120	146	154	177	207	255	284	
Heating capacity	Nom.		kW	148	180	194	223	258	315	354	
Power input	Cooling	Nom.	kW	28.0	34.0	39.5	45.3	50.4	59.9	70.0	
	Heating	Nom.	kW	28.0	34.0	39.5	45.3	50.4	59.9	70.0	
Capacity control	Method			Stepless							
	Minimum capacity			25.0							
EER				4.28	4.29	3.90	3.91	4.11	4.26	4.06	
ESEER				4.51		4.20		4.28	4.68	4.01	
COP				5.28	5.29	4.90	4.91	5.11	5.26	5.06	
	IPLV			5.18	5.06		5.05	5.16	5.70	4.88	
Dimensions	Unit	Height	mm	1,020							
		Width	mm	913							
		Depth	mm	2,684							
Weight	Unit		kg	1,177	1,233	1,334	1,366	1,416	1,600	1,607	
	Operation weight		kg	1,211	1,276	1,378	1,415	1,473	1,663	1,675	
Water heat exchanger - evaporator	Type			Plate heat exchanger							
	Water volume		l	14	18	14	17	20		26	
	Water flow rate	Nom.	l/s	5.7	7.0	7.4	8.5	9.9	12.2	13.6	
	Water pressure drop	Cooling	Nom.	kPa	15	14	43	40	35	28	34
Heating		Nom.	kPa	15	14	43	40	35	28	34	
Water heat exchanger - condenser	Type			Single pass shell and tube							
	Water volume		l	20		23	25		29	32	
	Water flow rate	Nom.	l/s	7.1	8.6	9.3	10.7	12.4	15.2	17.0	
	Water pressure drop	Cooling	Nom.	kPa	19		12		11	16	26
Heating		Nom.	kPa	19		12		11	16	26	
Compressor	Type			Single screw compressor							
	Quantity			1							
Sound power level	Cooling	Nom.	dB(A)	89							
Sound pressure level	Cooling	Nom.	dB(A)	79							
Operation range	Evaporator	Cooling	Min.~Max.	-10~15							
	Condenser	Cooling	Min.~Max.	23~60							
Refrigerant	Type/GWP			R-134a/1,430							
	Circuits	Quantity		1							
Refrigerant charge	Per circuit		kg/TCO2Eq	18.0/25.7	35.0/50.1	34.0/48.6	37.0/52.9		38.0/54.3		
Piping connections				76.2							
Piping connections	Condenser water inlet/outlet (OD)			2" 1/2		4"					
Unit	Starting current	Max		151			195			288	
	Running current	Cooling	Nom.	A	48	57	67	74	83	97	109
Max		A	76	97	107	122	143	167	189		
Power supply	Phase/Frequency/Voltage			Hz/V							
				3~/50/400							

# Water cooled screw chiller, standard efficiency, standard sound

The **Daikin screw heat pump EWWH-J** has the same great features found on the EWWD version but with the added benefit of an HFO refrigerant: **R-1234ze**

- › HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- › Compact design to allow easy indoor installation or retrofit operations
- › Daikin semi-hermetic single screw stepless compressor
- › High energy efficiency both at full and part load conditions
- › Chilled water temperatures down to -5°C on standard unit
- › MicroTech 4 controller with superior control logic and easy interface
- › Cooling capacity range: 89 – 201 kW
- › Heating capacity range: 106 – 243 kW
- › EER: up to 4.24
- › SCOP: up to 5.21
- › IPLV: up to 4.91



EWWH-J\_EWWS-J

Microtech 4

				EWWH-J-SS	090	110	120	130	150	180	200	
Space heating	Average climate water outlet 35°C	General	SCOP		3.94	3.89	3.75		3.77	3.89	3.8	
Cooling capacity	Nom.		kW	89	107	115	133	150	182	201		
Heating capacity	Nom.		kW	105.6	128.9	138.5	160	180.7	218.2	243.3		
Power input	Cooling	Nom.	kW	20.9	25.3	28.5	33.2	37.3	44.3	50.2		
	Heating	Nom.	kW	21	25.5	28.8	33.5	37.6	44.8	50.7		
Capacity control	Method	Stepless										
	Minimum capacity	%	25									
EER				4.24	4.23	4.04	4.03		4.1	4		
COP				5.03	5.07	4.81	4.78	4.81	4.88	4.8		
IPLV				4.42	4.48	4.3	4.32	4.3	4.98	4.88		
Dimensions	Unit	Height	mm	1,020								
		Width	mm	913								
		Depth	mm	2,684								
Weight	Unit		kg	1,177	1,233	1,334	1,366	1,416	1,600	1,607		
	Operation weight		kg	1,211	1,276	1,378	1,415	1,473	16,635	1,675		
Water heat exchanger - evaporator	Type	Plate heat exchanger										
	Water volume		l	14	18	14	17	20	26			
	Water flow rate	Cooling	Nom.	l/s	4.2	5.1	5.5	6.4	7.2	8.7	9.6	
		Heating	Nom.	l/s	6.86	8.29	8.89	10.3	11.6	14	15.5	
	Water pressure drop	Cooling	Nom.	kPa	10.6	10.8	19.2	19.3	17.8	16.7	20	
Heating		Nom.	kPa	25.5	26	45.9	46.2	42.4	40	48		
Water heat exchanger - condenser	Type	Shell and tube										
	Water volume		l	20	20.1	22.7	25.3	28.65		32		
	Water flow rate	Cooling	Nom.	l/s	5.17	6.32	6.79	7.84	8.86	10.6	11.9	
		Heating	Nom.	l/s	5.06	6.17	6.63	7.66	8.65	10.5	11.6	
	Water pressure drop	Cooling	Nom.	kPa	9.1	9.78	8.68	9.06	8.86	12.3	12.1	
Heating		Nom.	kPa	8.72	9.36	8.34	8.66	8.48	11.9	11.7		
Compressor	Type	Single screw compressor										
	Quantity	1										
Sound power level	Cooling	Nom.	dB(A)	88.9								
Sound pressure level	Cooling	Nom.	dB(A)	79								
Refrigerant	Type	R-1234(ze)										
	Charge		kg	18	35	34	37		38			
	Circuits	Quantity	1									
Piping connections			mm	76.2								
	Condenser water inlet/outlet		inch	2.0	4							
Unit	Starting current	Max	A	153				197		290		
		Running current	Cooling	Nom.	A	39	44	55	60	65	76	84
	Max	A	75	90	100	114	143	158	178			
Power supply	Phase/Frequency/Voltage		Hz/V	3~/50 /400								

# Water cooled screw chiller, standard efficiency, standard sound

The **Daikin screw heat pump EWWS-J** extends an already high performing product by offering another HFO refrigerant: **R513A**

- › Optimized for use with R-513A
- › Compact design to allow easy indoor installation or retrofit operations
- › Daikin semi-hermetic single screw stepless compressor
- › High energy efficiency both at full and part load conditions
- › Chilled water temperatures down to -5°C on standard unit
- › MicroTech 4 controller with superior control logic and easy interface
- › Cooling capacity range: 115 – 272 kW
- › Heating capacity range: 140 – 388 kW
- › EER: up to 3.84
- › SCOP: up to 4.68
- › IPLV: up to 4.67



EWWS-J\_EWWS-J

Microtech 4

				EWWS-J-SS	120	140	150	180	210	240	270
SEER					3.41	3.42	3.37	3.46	3.47	3.91	3.88
Space heating	Average climate water outlet 35°C	General	SCOP		3.61	3.51	3.49	3.54	3.58	3.5	3.49
Cooling capacity	Nom.			kW	115	136	154	181	207	241	272
Heating capacity	Nom.			kW	140.4	171.3	192.1	220.6	247.6	303.2	338
Power input	Cooling	Nom.			kW	29.9	36.3	41.6	47.8	54.2	74.4
		Heating	Nom.			kW	30.2	36.6	42.2	48.4	54.9
Capacity control	Method			Stepless							
	Minimum capacity			%	25						
EER					3.84	3.75	3.71	3.78	3.82	3.67	3.66
COP					4.64	4.68	4.55	4.56	4.51	4.56	4.48
IPLV					4.14	4.17	4.13	4.14	4.16	4.66	4.61
Dimensions	Unit	Height	mm		1,020						
		Width	mm		913						
		Depth	mm		2,684						
Weight	Unit			kg	1,176.84	1,232.68	1,334.04	1,365.84	1,415.8	1,599.76	1,607.26
		Operation weight		kg	1,211.12	1,275.74	1,377.54	1,414.84	1,472.8	1,663.26	1,674.76
Water heat exchanger - evaporator	Type			Plate heat exchanger							
	Water volume			l	14	18	14	17	20	26	
	Water flow rate	Cooling	Nom.	l/s	5.5	6.5	7.4	8.6	9.9	11.5	13
		Heating	Nom.	l/s	8.92	10.6	12	14	16.1	18.7	21.1
	Water pressure drop	Cooling	Nom.	kPa	17	16.8	32.7	33.3	31.8	27.9	34.7
Heating		Nom.	kPa	40.8	40.2	78.8	80	76.2	66.9	83.4	
Water heat exchanger - condenser	Type			Shell and tube							
	Water volume			l	20	20.1	22.7	25.3	28.65		32
	Water flow rate	Cooling	Nom.	l/s	6.87	8.38	9.37	10.7	12.1	14.8	16.5
		Heating	Nom.	l/s	6.72	8.2	9.2	10.6	11.9	14.5	16.2
	Water pressure drop	Cooling	Nom.	kPa	15	16	15.3	15.8	15.3	22	21.5
Heating		Nom.	kPa	14.4	15.5	14.8	15.3	14.8	21.2	20.8	
Compressor	Type			Single screw compressor							
	Quantity			1							
Sound power level	Cooling	Nom.	dB(A)	88.9							
Sound pressure level	Cooling	Nom.	dB(A)	79							
Refrigerant	Type			R-513A							
	Charge			kg	18	35	34	37		38	
	Circuits	Quantity		1							
Piping connections				mm	76.2						
Piping connections	Condenser water inlet/outlet			inch	2.0		4				
Unit	Starting current	Max		A	154			198		291	
		Running current	Cooling	Nom.	A	50	60	70	78	87	104
	Max		A	81	96	108	122	141	164	185	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400						

# Water cooled screw chiller, standard efficiency, standard sound

Optimized for R134a the Daikin Screw Condenserless Chiller EWLD-J is a water-cooled screw condenserless chiller solution ensuring compactness and efficiency

- › Compact design to allow easy indoor installation or retrofit operations
- › Daikin semi-hermetic single screw stepless compressor
- › High energy efficiency both at full and part load conditions
- › Chilled water temperatures down to -10°C on standard unit
- › MicroTech 4 controller with superior control logic and easy interface
- › Cooling capacity range: 110 – 264 kW
- › EER: up to 3.58



EWLD-J-SS

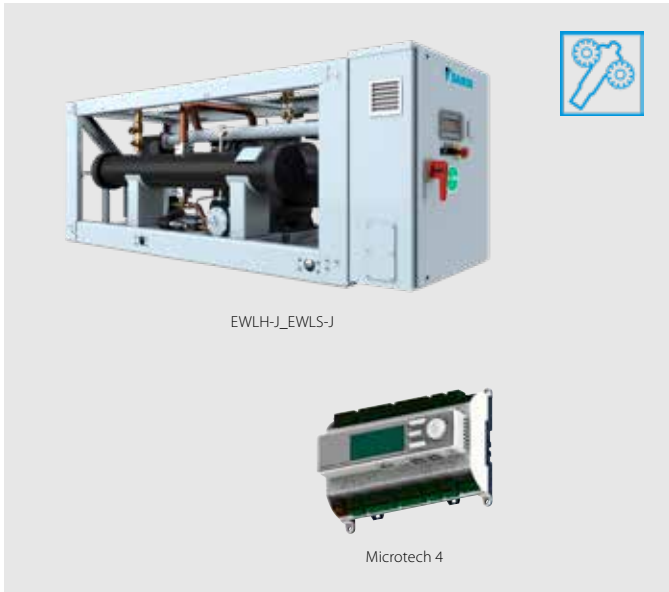
Microtech 4

Cooling only				EWLD-J-SS	110	130	145	165	235	195	265	
Cooling capacity	Nom.		kW		110	128	142	163	236	191	264	
Power input	Cooling	Nom.	kW		31.2	38.4	43.8	50.4	66.0	56.0	75.3	
Capacity control	Method				Stepless							
	Minimum capacity			%	25.0							
EER					3.51	3.33	3.25	3.24	3.58	3.42	3.51	
Dimensions	Unit	Height		mm	1,020							
		Width		mm	913							
		Depth		mm	2,684							
Weight	Unit			kg	1,124	1,141	1,237	1,263	1,489	1,305	1,489	
	Operation weight			kg	1,138	1,159	1,253	1,281	1,518	1,327	1,518	
Water heat exchanger - evaporator	Type				Plate heat exchanger							
	Water volume			l	14	18	14	17	26	20	26	
	Water flow rate	Nom.		l/s	5.2	6.1	6.8	7.8	11.3	9.2	12.6	
Compressor	Water pressure drop	Cooling	Nom.	kPa	14	13	39	37	26	33	32	
	Type				Single screw compressor							
Sound power level	Cooling			Nom.	89.0							
	Cooling			Nom.	79.0							
Operation range	Evaporator	Cooling	Min.~Max.	°CDB	-10~15							
	Condenser	Cooling	Min.~Max.	°CDB	25~60							
Refrigerant	Type / GWP				R-134a / 1,430							
	Circuits			Quantity	1							
Piping connections	Evaporator water inlet/outlet (OD)				76.2 mm							
Unit	Maximum starting current			A	151		195		288	195	288	
	Nominal running current (RLA)			Cooling	A	52	62	72	81	107	91	120
	Maximum running current			A	76	97	107	122	167	143	189	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400							

# Condenserless water to water screw heat pump

The **Daikin screw Condenserless EWLH-J** has the same great features found on the EWLD version but with the added benefit of an HFO refrigerant : **R-1234ze**

- › HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- › Compact design to allow easy indoor installation or retrofit operations
- › Daikin semi-hermetic single screw stepless compressor
- › High energy efficiency both at full and part load conditions
- › Chilled water temperatures down to -5°C on standard unit
- › MicroTech 4 controller with superior control logic and easy interface
- › Cooling capacity range: 84 – 193 kW
- › EER: up to 3.62



EWLH-J\_EWLS-J

Microtech 4

				EWLH-J-SS		080	100	110	130	140	170	190	
Cooling capacity	Nom.			kW		84	102	109	127	142	174	193	
Power input	Cooling	Nom.		kW		23.3	28.1	31.8	37	41.5	49.6	56.3	
Capacity control	Method			Stepless									
	Minimum capacity			%		25							
EER						3.62	3.43	3.42	3.43	3.51	3.43		
Dimensions	Unit	Height		mm		1,020							
		Width		mm		913							
		Depth		mm		2,684							
Weight	Unit			kg		1,124	1,141	1,237	1,263	1,305	1,489		
	Operation weight			kg		1,138	1,159	1,253	1,281	1,327	1,518		
Water heat exchanger - evaporator	Type			Plate heat exchanger									
	Water volume			l		14	18	14	17	20	26		
	Water flow rate	Cooling	Nom.	l/s		4	4.9	5.2	6	6.8	8.3	9.2	
	Water pressure drop	Cooling	Nom.	kPa		9.69	9.92	17.4	17.5	16.1	15.5	18.6	
Compressor	Type			Single screw compressor									
	Quantity					1							
Sound power level	Cooling	Nom.		dBA		88.9							
Sound pressure level	Cooling	Nom.		dBA		79							
Refrigerant	Type			R-1234(ze)									
	Circuits	Quantity				1							
Piping connections				mm		76.2							
Unit	Starting current	Max		A		153			197			290	
		Running current	Cooling	Nom.	A		42	48	59	65	71	84	92
			Max		A		75	90	100	114	143	158	178
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400							



# Condenserless water to water screw heat pump

The **Daikin screw Condenserless EWLS-J** extends an already high performing product by offering another HFO refrigerant: **R513A**

- › Optimized for use with R-513A
- › Compact design to allow easy indoor installation or retrofit operations
- › Daikin semi-hermetic single screw stepless compressor
- › High energy efficiency both at full and part load conditions
- › Chilled water temperatures down to -5°C on standard unit
- › MicroTech 4 controller with superior control logic and easy interface
- › Cooling capacity range: 111 – 268 kW
- › EER: up to 3.44



EWLH-J\_EWLS-J

Microtech 4

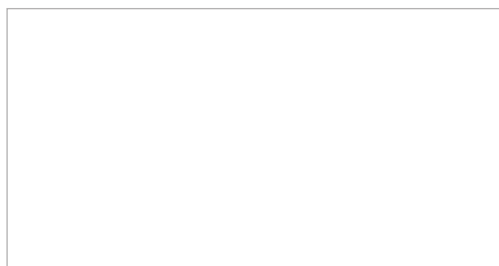
				EWLS-J-SS		110	130	150	170	200	240	270	
Cooling capacity	Nom.			kW		111	132	150	175	200	236	268	
Power input	Cooling	Nom.			kW		32.2	38.7	44.8	51.2	58.2	78.8	
Capacity control	Method			Stepless									
	Minimum capacity			%									
EER				3.44	3.41	3.35	3.41	3.44	3.41	3.4			
Dimensions	Unit	Height		mm		1,020							
		Width		mm		913							
		Depth		mm		2,684							
Weight	Unit			kg		1,124	1,141	1,237	1,263	1,305	1,489		
		Operation weight		kg		1,138	1,159	1,253	1,281	1,327	1,518		
Water heat exchanger - evaporator	Type			Plate heat exchanger									
	Water volume			l		14	18	14	17	20	26		
	Water flow rate	Cooling	Nom.	l/s		5.3	6.3	7.2	8.3	9.6	11.3	12.8	
Compressor	Water pressure drop	Cooling	Nom.	kPa		15.9	15.7	31	31.4	29.9	26.9	33.7	
	Type			Single screw compressor									
Sound power level	Quantity			1									
	Cooling	Nom.	dBA		88.9								
Sound pressure level	Cooling	Nom.	dBA		79								
	Type			R-513A									
Refrigerant	Circuits			Quantity									
	Quantity			1									
Piping connections				mm		76.2							
Unit	Starting current	Max		A		154			198			291	
		Running current	Cooling	Nom.	A		54	65	75	84	94	111	125
			Max		A		81	96	108	122	141	164	185
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400							







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