

Water Cooled Screw Chiller

130kW~4180kW   
37.1Ton~1194.3Ton

Application areas

- Industry process, precision, traditional manufacturing, food processing, government project, pharmaceutical.

Why this choice?

- High efficiency screw compressor, shell and tube type and environment friendly R410a refrigerant.
- Multi units parallel technology, more compressors parallel design to save more power, heat recovery function.
- Micro computer control, each modular unit running independently. Integrated control is an optional.



Characteristics

34 sizes available ranging from 130kW to 4180kW cooling capacity.

Acting as multi-function unit such as cooling, heating, sanitary hot water separately or simultaneously.

Wide application as hotel, apartment, villa, factory, shopping center, office building, school, etc.

Semi-hermetic screw compressor for the whole range. Each compressor is equipped with a crankcase heater and a built-in electronic

protection with temperature sensor located directly in the motor winding and on the discharge line.

The refrigerant circuit is complete with sight glass, filter drier, high and low pressure gauges, solenoid valve, electronic expansion valve, high and low pressure switch.

Shell and tube dry expansion type condenser, factory insulated with flexible close cell material.

Shell and tube evaporator, higher efficiency less water consumption, easy maintenance and cleaning, factory insulated with flexible close cell material.



The electric panel consists of compressor breaker, compressor contactor, phase sequence relay, control circuit breaker, microprocessor control with function display.

LCD display, touch screen control panel as standard.

Automatic operation dramatically reducing maintenance cost thanks to reliable microprocessor system.

An infinitely variable capacity control system that is capable of exactly matching the demand requirement of the system is to be supplied. This system is to provide precise and stable control of supply water temperature over the complete range of operating conditions.

Optional

Desuperheater as optional.
Electronic controller with BMS system.

Technical Data

Model	Unit	WW130	WW170	WW200	WW240	WW260	WW280	WW310
Cooling capacity*	kW	130	170	200	240	260	280	310
	Ton	37.1	48.6	57.1	68.6	74.3	80	88.6
Power supply	380-415V/3Ph/50Hz							
Compressor								
Qty/refrigerant circuit	Nr.	1/1	1/1	1/1	1/1	1/1	1/1	1/1
Cooling power input*	kW	26	33	39	47	51	55	61
Energy adjustment steps	step	25%-100%						
Max.current for writing	A	69	87	108	128	154	158	161
Refrigerant charge	kg	32	39	46	55	60	64	68
Evaporator								
Water side pressure drop	kPa	42	45	45	45	45	46	46
Pipe size	mm	DN65	DN80	DN100	DN100	DN100	DN100	DN100
Water flow rate in cooling*	m ³ /h	22	29	34	41	45	48	53
Condenser								
Water side pressure drop	kPa	42	45	44	44	45	45	44
Pipe size	mm	DN65	DN80	DN100	DN100	DN100	DN100	DN100
Water flow rate in cooling*	m ³ /h	27	35	41	49	54	58	64
Dimensions								
Length	mm	2685	2720	2660	2880	2870	3170	3270
Width	mm	1090	1115	1175	1125	1125	1125	1230
Height	mm	1625	1555	1650	1645	1685	1685	1685
Net weight	kg	1600	1800	1900	2000	2100	2200	2250
Noise level**	dB(A)	68	69	69	70	70	72	73

* Performance values refer to the following conditions:

Condenser water inlet/outlet temperature: 30°C/35°C, evaporator water inlet/outlet temperature: 12°C/7°C.

** Noise level measured in free field condition at distance of 1 meter.



Model	Unit	WW360	WW380	WW420	WW480	WW530	WW610	WW680	WW710
Cooling capacity*	kW	360	380	420	480	530	610	680	710
	Ton	102.9	108.6	120	137.1	151.4	174.3	194.3	202.9
Power supply	380-415V/3Ph/50Hz								
Compressor									
Qty/refrigerant circuit	Nr.	1/1	1/1	1/1	1/1	1/1	1/1	1/1	2/2
Cooling power input*	kW	71	75	83	94	104	120	134	140
Energy adjustment steps	step	25% - 100%							
Max. current for wiring	A	165	175	185	258	292	302	335	2×165
Refrigerant charge	kg	85	100	107	126	142	160	167	171
Evaporator									
Water side pressure drop	kPa	46	47	46	46	46	46	47	47
Pipe size	mm	DN125	DN125	DN125	DN125	DN125	DN125	DN150	DN150
Water flow rate in cooling*	m ³ /h	62	65	72	83	91	105	117	122
Condenser									
Water side pressure drop	kPa	44	44	42	42	42	44	42	44
Pipe size	mm	DN125	DN125	DN125	DN125	DN125	DN125	DN150	2×DN125
Water flow rate in cooling*	m ³ /h	74	78	86	99	109	126	140	146
Dimensions									
Length	mm	3170	3180	3180	3505	3505	3505	3520	4060
Width	mm	1200	1285	1285	1280	1315	1375	1380	1415
Height	mm	1685	1805	1805	1970	1990	1980	1980	1975
Net weight	kg	2400	3000	3100	3500	3800	4000	4100	4210
Noise level**	dB(A)	73	73	73	74	74	74	73	74

Model	Unit	WW760	WW860	WW960	WW1000	WW1120	WW 1200	WW1250	WW1360
Cooling capacity*	kW	760	860	960	1000	1120	1200	1250	1360
	Ton	217.1	245.7	274.3	285.7	320	342.9	357.1	388.6
Power supply	380-415V/3Ph/50Hz								
Compressor									
Qty/refrigerant circuit	Nr.	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2
Cooling power input*	kW	150	169	189	197	220	236	246	268
Energy adjustment steps	step	12.5% - 100%							
Max. current for wiring	A	2×175	2×175	2×185	2×246	2×258	2×292	2×302	2×315
Refrigerant charge	kg	199	210	220	242	261	295	302	327
Evaporator									
Water side pressure drop	kPa	46	47	46	46	46	46	46	46
Pipe size	mm	DN150	DN150	DN200	DN200	DN200	DN200	DN200	DN200
Water flow rate in cooling*	m ³ /h	131	148	165	172	193	206	215	234
Condenser									
Water side pressure drop	kPa	42	44	42	44	44	44	42	45
Pipe size	mm	2×DN125	2×DN125	2×DN125	2×DN125	2×DN150	2×DN150	2×DN150	2×DN150
Water flow rate in cooling*	m ³ /h	156	177	198	206	231	247	257	280
Dimensions									
Length	mm	4505	4505	4505	4660	4660	4660	4660	4660
Width	mm	1415	1415	1415	1460	1460	1585	1585	1585
Height	mm	2000	2000	2000	2090	2090	2215	2215	2240
Net weight	kg	4400	4740	5600	6600	6800	7000	7400	8000
Noise level**	dB(A)	74	74	74	74	74	74	74	75

* Performance values refer to the following conditions:

Condenser water inlet/outlet temperature: 30°C/35°C, evaporator water inlet/outlet temperature: 12°C/7°C.

** Noise level measured in free field condition at distance of 1 meter.



Model	Unit	WW1470	WW1720	WW1840	WW2000	WW2350	WW2500
Cooling capacity*	kW	1470	1720	1840	2000	2350	2500
	Ton	420	491.4	525.7	571.4	671.4	714.3
Power supply	380-415V/3Ph/50Hz						
Compressor							
Qty/refrigerant circuit	Nr.	4/4	4/4	4/4	4/4	4/4	4/4
Cooling power input*	kW	289	339	362	394	463	492
Energy adjustment steps	step	6.25% - 100%					
Max. current for wiring	A	4x175	4x185	4x246	4x258	4x258	4x292
Refrigerant charge	kg	338	393	430	453	494	537
Evaporator							
Water side pressure drop	kPa	45	45	46	46	47	47
Pipe size	mm	2xDN150	2xDN150	2xDN200	2xDN200	2xDN200	2xDN200
Water flow rate in cooling*	m ³ /h	253	296	316	344	404	430
Condenser							
Water side pressure drop	kPa	52	52	52	52	52	52
Pipe size	mm	2xDN200	2xDN200	2xDN200	2xDN200	2xDN200	2xDN200
Water flow rate in cooling*	m ³ /h	303	354	379	412	484	515
Dimensions							
Length	mm	4600	4650	4690	4600	4780	4800
Width	mm	2250	2270	2300	2450	2450	2450
Height	mm	2350	2380	2410	2460	2470	2500
Net weight	kg	8800	9000	9800	11600	12300	13000
Noise level**	dB(A)	76	80	80	81	81	81

Model	Unit	WW2720	WW2880	WW3320	WW3600	WW4180
Cooling capacity*	kW	2720	2880	3320	3600	4180
	Ton	777.1	822.9	948.6	1028.6	1194.3
Power supply	380V/3Ph/50Hz					
Compressor						
Qty/refrigerant circuit	Nr.	4/4	4/4	4/4	4/4	4/4
Cooling power input*	kW	543.6	576.8	658.8	702.4	800
Energy adjustment steps	step	6.25% - 100%				
Refrigerant charge	kg	548	590	692	751	820
Evaporator						
Water side pressure drop	kPa	46	46	46	46	47
Pipe size	mm	2xDN150	2xDN200	2xDN200	2xDN200	2xDN200
Water flow rate in cooling*	m ³ /h	467.8	495.4	571.0	619.2	719.0
Condenser						
Water side pressure drop	kPa	45	45	45	45	45
Pipe size	mm	2xDN200	2xDN200	2xDN200	2xDN200	2xDN200
Water flow rate in cooling*	m ³ /h	561.3	594.6	684.4	740.0	856.6
Dimensions						
Length	mm	5000	4750	4750	4850	4950
Width	mm	2460	2480	2400	2400	2500
Height	mm	2500	2500	2555	2575	2650
Net weight	kg	12500	12800	13000	15000	17000
Noise level**	dB(A)	82	82	83	83	85

* Performance values refer to the following conditions:

Condenser water inlet/outlet temperature: 30°C/35°C, evaporator water inlet/outlet temperature: 12°C/7°C.

** Noise level measured in free field condition at distance of 1 meter.