

» Technical Parameters Table (GWP Series Dual Compressor)

Model GWP****MARSN			2270	2310	2350	2380	2410	2470	2530	2570	2610	2660	
Cooling Condition	Cooling Capacity		kW	940	1050	1188	1334	1472	1654	1863	2008	2140	2404
	Cooling Input Power		kW	148.4	165.5	189.1	210.7	233.0	260.7	294.1	317.6	335.6	379.7
	Cooling Input Current		A	264.9	295.4	337.5	376.1	415.9	466.7	526.4	568.5	600.7	679.7
	Cooling Energy Efficiency Ratio (EER)		W/W	6.33	6.34	6.28	6.33	6.32	6.34	6.33	6.32	6.38	6.33
	Evaporator	Water Flow Rate	m³/h	162	181	204	229	253	284	320	345	368	413
		Water Pressure Drop	kPa	41	78	71	78	76	79	79	81	88	89
		Pipe Size	mm	DN150	DN200	DN200	DN200	DN200	DN200	DN250	DN250	DN250	DN250
	Condenser	Water Flow Rate	m³/h	202	226	255	287	316	356	401	432	460	517
		Water Pressure Drop	kPa	44	57	56	56	60	58	67	71	73	71
		Pipe Size	mm	DN150	DN200	DN200	DN200	DN200	DN200	DN250	DN250	DN250	DN250
Heating Condition	Heating Capacity		kW	968	1071	1212	1374	1501	1704	1919	2048	2228	2452
	Heating Input Power		kW	196.1	214.5	237.6	272.6	296.6	333.6	370.7	401.0	430.0	472.7
	Heating Input Current		A	350.0	382.9	424.1	486.6	529.4	595.5	661.7	715.8	767.6	843.8
	Heating Coefficient of Performance (COP)		W/W	4.94	4.99	5.10	5.04	5.06	5.11	5.18	5.11	5.18	5.19
	Evaporator	Water Flow Rate	m³/h	202	226	255	287	316	356	401	432	460	517
		Water Pressure Drop	kPa	67	85	83	91	91	94	94	94	97	99
		Pipe Size	mm	DN150	DN200	DN200	DN200	DN200	DN200	DN250	DN250	DN250	DN250
	Condenser	Water Flow Rate	m³/h	162	181	204	229	253	284	320	345	368	413
		Water Pressure Drop	kPa	54	57	61	57	55	61	63	67	71	76
		Pipe Size	mm	DN150	DN200	DN200	DN200	DN200	DN200	DN250	DN250	DN250	DN250
Annual Comprehensive Performance Coefficient (ACOP)			kW/kW	5.72	5.75	5.76	5.76	5.76	5.80	5.83	5.79	5.85	5.83
Energy Efficiency Rating				Level 1	Level 1	Level 1	Level 1	Level 1	Level 1	Level 1	Level 1	Level 1	Level 1
Compressor	Quantity			2									
	Type or Form			Semi-closed Twin-screw Compressor									
	Startup Method			Star-Delta									
Partial Load Energy Regulation Range				Infinite Capacity Control									
Maximum Operating Current of the Unit			A	536	586	649	744	810	911	1012	1095	1174	1291
Unit Startup Current			A	596	665	759	846	936	1050	1184	1279	1352	1529
Refrigerant	Type			R134a									
	Charge Quantity	kg	293	328	371	416	460	501	551	627	682	751	
Dimensions	L (A)	mm	4460	4460	4460	4900	4900	4900	4900	4900	5450	5450	
	W (B)	mm	1400	1400	1400	1600	1600	1600	1600	1800	1800	1800	
	H (C)	mm	2150	2150	2150	2150	2150	2150	2150	2250	2250	2250	
Unit Weight			kg	4940	5240	6070	6300	6480	6900	8500	8750	9430	10350
Operating Weight of the Unit			kg	5250	5600	6450	6700	6900	7400	7950	8140	8820	9650

Note:

1. The parameters in the above table are based on the national standard GB/T 19409-2013:

Cooling condition: The outlet temperature of chilled water is 7°C, water flow rate = cooling capacity × 0.172 m³/(h · kW), the inlet temperature of groundwater is 25°C, water flow rate = cooling capacity × 0.215 m³/(h · kW).

Heating condition: The outlet temperature of hot water is 45°C, the flow rate is the same as the evaporator water flow rate under the nominal cooling condition, the inlet temperature of the heat source side is 10°C, and the flow rate is the same as the condenser water flow rate under the nominal cooling condition.

2. The energy efficiency rating is determined in accordance with the standard GB 30721-2014.

3. The evaporator and condenser are designed with a two-pass configuration. The maximum allowable working pressure of the water chamber is 1.0 MPa, with a clamp connection.

4. Electrical supply: 380V/3N ~ /50Hz.

5. To improve the product to meet customer needs, we reserve the right to modify the brochure without prior notice and without further announcement.



MODULAR WATER-COOLED SCROLL CHILLER

The Obair Modular water-cooled scroll chiller is a central air conditioning equipment that utilizes water as a cooling medium and can provide a cold source for air handling units or other equipment requiring process cooling.

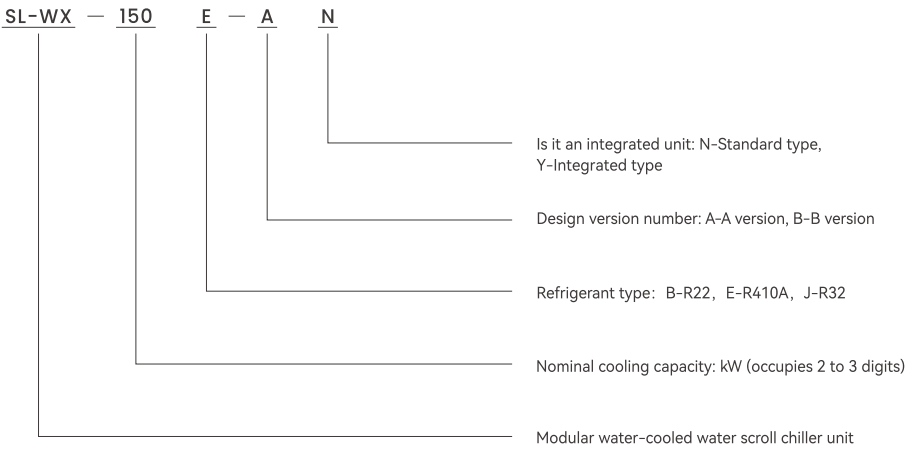
» Product Features

1. Eco-friendly Refrigerant: The unit employs the environmentally-friendly refrigerant R410A, as it contains no chlorine that depletes the ozone layer, to achieve a zero Ozone Depletion Potential (ODP).
2. High-quality Scroll Compressors: It is equipped with hermetic scroll compressors from a reputable brand, offering stable operation, high efficiency, and low noise levels, all with no maintenance requirements.
3. Modular Design: The unit's modular structure is characterized by compact, lightweight individual modules, simplifying transport, hoisting, and installation processes.
4. Advanced Microcomputer Control: The unit employees sophisticated microcomputer control technology, featuring a user-friendly interface and high-level automation. It enables one-button start-stop program management of the unit, including control functions for starting and stopping the cooling tower, cooling water pump, and chilled water pump.
5. Flexible Combination of Modules: Modules of varying cooling capacities can be freely combined, allowing the unit to flexibly meet diverse cooling requirements.
6. Balanced and Reliable Operation: The modules are designed to operate evenly over time to extend the unit's service life. Each module can act as a backup for others, enhancing the overall safety and reliability of the system.

Application Scenarios:

Extensively applied in guesthouses, hotels, hospitals, cinemas, shopping malls, entertainment and leisure centers, factories, and other comfort and process-related scenarios.

» Model Description



» Technical Parameters

Basic Module Cell Model SL-WX-***E-AN				70	110	150	200	250	300
Performance Parameters	Nominal Cooling Capacity		kW	75	115	155	205	250	305
	Cooling Input Power		kW	14.6	22.5	30.2	40.6	49.0	60.2
	EER		kW/kW	5.14	5.11	5.13	5.05	5.10	5.07
	IPLV		kW/kW	6.12	6.12	6.12	6.12	6.23	6.23
	Chilled Water Flow Rate		m³/h	12.9	19.8	26.7	35.3	43.0	52.5
	Cooling water Flow Rate		m³/h	16.1	24.7	33.3	44.1	53.8	65.6
	Chilled Water Assistance		kPa	36	38	38	42	42	46
	Cooling Water Pressure Drop		kPa	34	37	38	36	36	40
Compressor	Type			Hermetic screw					
	Number			2	2	2	2	3	3
Condenser	Type			Shell- and -Tube Condenser					
	Piping Method			Internal Threaded (Rc) Piping					
	Piping Diameter		inch	2"	2-1/2"	3"	4"	4"	4"
Evaporator	Type			Shell- and -Tube Condenser					
	Piping Method			Internal Threaded (Rc) Piping					
	Piping Diameter		inch	2"	2-1/2"	3"	4"	4"	4"
Refrigerator	Type			R410A					
Other Parameters	Method of Throttling			Electric Expansion Valve					
	Power Supply			380V/3N/50Hz					
	Outline Dimensions	L (A)	mm	1950	1950	2100	2220	2500	2500
		W (B)	mm	650	650	700	800	800	800
		H (C)	mm	1600	1600	1600	1700	1700	1700
	Unit Weight	Unit Weight	kg	660	840	950	1060	1140	1230
Operating Weight		kg	720	910	1030	1160	1240	1340	

- Note:
1. Nominal Cooling Conditions: Entering chilled-water temperature 12°C, leaving cooling-water temperature 7°C, entering cooling water temperature 30°C, leaving cooling-water temperature 35°C;
2. Power Supply: 3P-380V-50Hz, allowable voltage difference between phases ±2%;
3. If the models listed above do not fulfill your specific needs, we offer tailored design and model selection services to create a solution that aligns with your requirements;
4. Specifications are subject to change due to product improvements, without prior notice.