



## 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.



The related products of Oubo have obtained the above certification, and the specific product certification is detailed in the relevant product certification certificate

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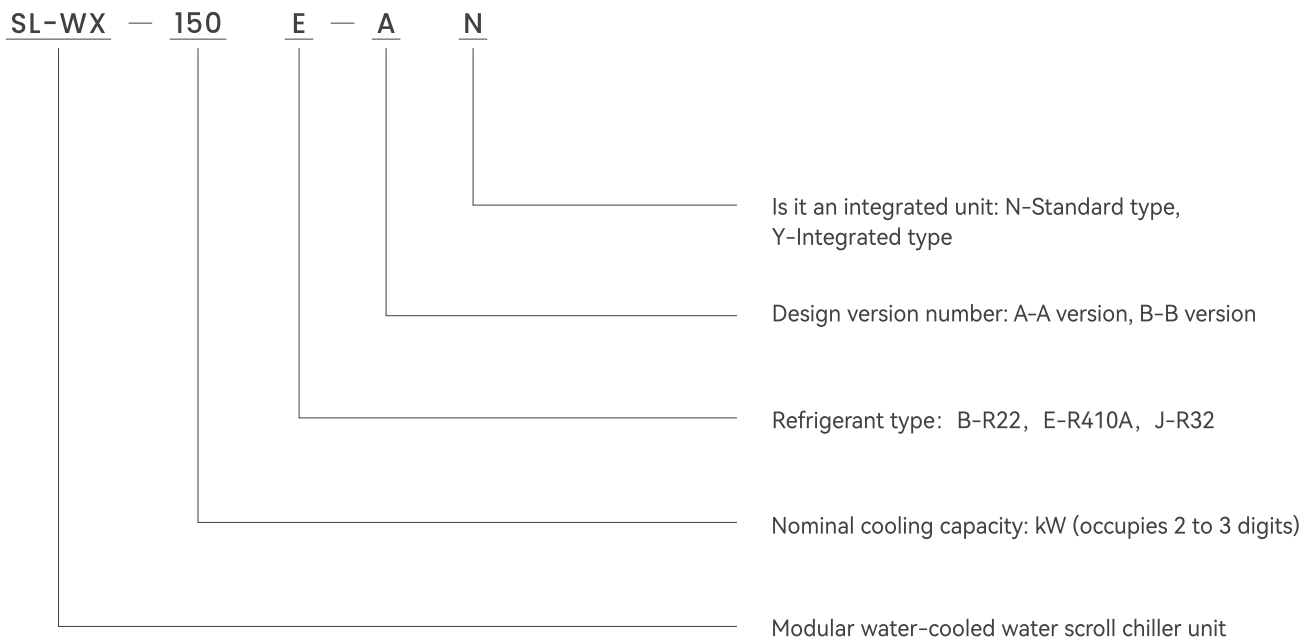
### » Product Features

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.