



 **YORK**

Commercial and Industrial Air-Conditioning Products

The World of Mini Chillers and Heat Pump Solutions

A more comfortable, safe
and sustainable world

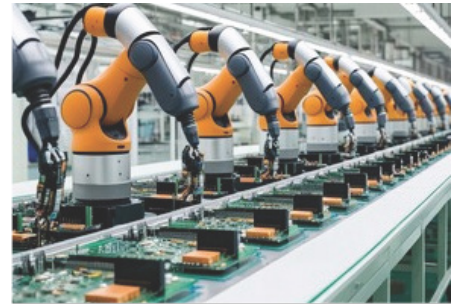
Multiple Applications, One Solution



Process Industries



Labs



Industrial & Manufacturing



Distillation & Breweries



Petroleum / Petro chemicals



Pulp & paper



Textiles



Dairy



Hotels and Restaurants



Retail & Showrooms



Food & Beverage



Luxury Residential Villas



Pharmaceuticals



Hospitals, Clinics & Diagnostics



Mini Datacenters, Server Rooms & Battery Rooms

YORK® YCWE Water-Cooled Scroll Chiller

YCWE 021 to 042

A complete range from 76.2 kW up to 151.9 kW



Reliable configuration

The R410A Scroll Compressor: The low-pressure chamber structure is designed with crankcase in a low temperature area, and the motor is cooled by the refrigerant in the low temperature return gas, this extends the motor's life.

Stainless steel evaporator: The asymmetric flow field design lowers the pressure drop on the water side and improves the antifreeze performance, to ensure the stable operation of the system.

Electronic expansion valve: The high-precision electronic expansion valves are used to make intelligent and adaptive adjustments to the flow of the refrigerant, ensuring the flow of the refrigerant is precise and the system's operation pressure and temperature are optimal.

Single-piece standard efficient all-copper filter: This can prevent dirt from entering the system, which prevents clogging.

Single-piece standard water flow switch: This can prevent the system from being froze-cracked due to poor water flow.

A multiple-compressor design

Each unit involves multiple compressors. The failure of a single unit won't affect the normal operation of another unit. This ensures reliable operation of the entire system.

Mutual backup of multiple modules

When multiple modules are running, the failure of a single module won't affect the operation of the entire system. Different modules are backup for each other. This can increase the reliability of system operation.

Flexible configuration

Each unit can be installed and operated separately. Multiple units can also be combined for optimal performance depending on the customer's need. Different models can be combined with up to 8 units connected.

Compact design

The units can be moved using freight elevators to save the installation.

Water-cooled scroll chiller

YCWE 021 to 042



Technical features

Model		YCWE021	YCWE032	YCWE042	
Performance	Nominal Cooling Capacity	kW	76.2	114.2	151.9
	Nominal Heating Capacity	kW	90.6	135.8	180.6
Refrigerant	Type	R410A			
	Amount Injected	kg	10	16	20
Compressor	Type	Scroll			
	Quantity	#	2	3	4
Water flow	Evaporator Side	m ³ /h	13.1	19.6	26.1
	Condenser Side	m ³ /h	16.4	24.6	32.7
Water Pressure Drop	Evaporator Side	kPa	73	28	30
	Condenser Side	kPa	72	60	60
Heat exchanger	Evaporator Type	Plate Heat Exchanger			
	Condenser Type	Efficient Shell and Tube			
	Inlet / Outlet Pipe	mm	DN50	DN65	
	Connection Style	Clamp Connection			
Dimensions and weight	Height	mm	1230		
	Length	mm	1480		
	Width	mm	840		
	Transportation weight	kg	360	520	670
	Operating weight	kg	380	555	715
Electrical	Power supply	V/ph/Hz	380/400V-3Ph-50Hz		

Notes:

1. Each unit must be installed with a Y-shaped filter that comes with the unit at the water inlet of the evaporator.
2. The cooling water and chilled water of the unit must be softened, to prevent the heat exchanger from scaling.
3. Cooling capacities in kW given for 12°C / 7°C chilled water entering / leaving temperature and 30°C / 35°C cooling water entering / leaving temperature.

Exceptional performance

A system design with parallel compressors: Such a design can effectively improve system unit performance, especially the performance part-load. The unit presents the highest efficiency under a partial load in the industry, and the annual operating cost is lower than that of competitive products.

Reliable design

Operating time of the compressors can be balanced: The operation status of each compressor is monitored in real time, and the operating time of each compressor is adjusted for balance, to extend the overall service life of the unit.



Schedule control

The system provides a calendar-like control mechanism to be automatically turned on or off at the specified time. The customer can set a time (day or week, except for holidays) to have the system automatically turned on or off.



Manufacturer reserves the rights to change specifications without prior notice.