



 **YORK**

Commercial and Industrial Air-Conditioning Products

# The World of Mini Chillers and Heat Pump Solutions

A more comfortable, safe  
and sustainable world

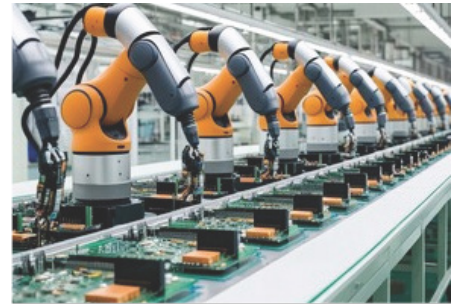
# Multiple Applications, One Solution



Process Industries



Labs



Industrial & Manufacturing



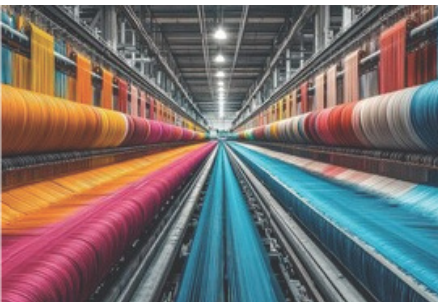
Distillation & Breweries



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® YMAE Air-cooled DC Inverter Scroll Chiller and Heat Pump

YMAE 045 to 140

A complete range from 46 kW to 145 kW



## High efficiency

**BLDC Fan:** The fan blades have been aerodynamically optimized for streamlined style to deliver extraordinarily low operation noise. The high-efficiency electronically commutated DC brushless BLDC motor regulates fan using a stepless speed method. The fan blades and motor align perfectly to deliver great low energy consumption.

**Brazed Plate Heat Exchanger (BPHE):** A stainless steel high-efficiency BPHE ensures optimum heat transfer efficiency. This provides superior performance and longer life cycle. In addition, the cross and counter flow design supplies water to the refrigerant circuit for full heat transfer with each refrigerant system, maximizing chiller efficiency, especially under part-load operation.

**Fin Plate Coil:** The airside heat exchanger features new corrugated fins with 7mm internal threaded copper tubes. The fins are made of hydrophilic aluminum foil to provide excellent hydrophilicity and corrosion resistance. The wave pattern design provides low airflow resistance, strengthens airflow disturbance and expands the heat transfer area. This makes for more effective heat exchange, which improves heat transfer efficiency.

## Wide operating range

YMAE has a wide operating range for full-year operation:

- **Cooling:** Operating ambient temperature from - 15°C to 48°C for superior cooling performance.
- **Heating:** Operating ambient temperature from - 27°C to 43°C for stable heating performance that caters to different customer requirements.



Best-in-class efficiency

Wide operation range

Quiet operation

Robust reliability

Sustainability

# Air-cooled DC Inverter Scroll Chiller and Heat Pump

YMAE 045 to 140



## Technical features

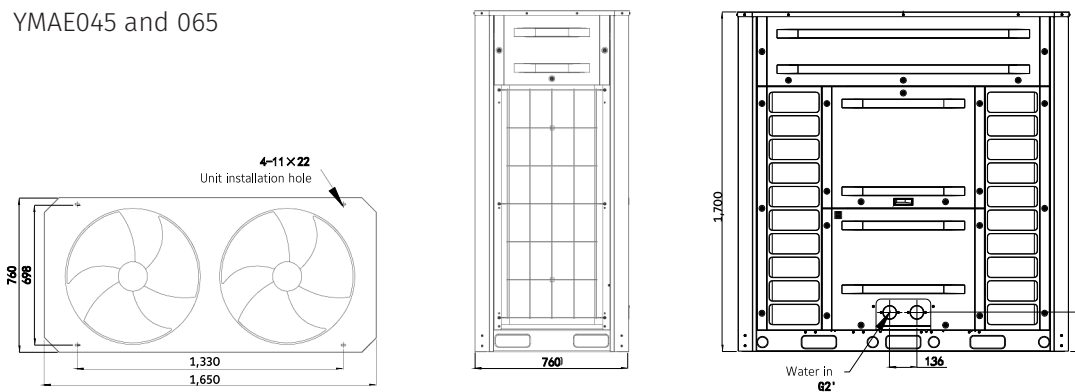
Model		YMAE045	YMAE065	YMAE140	
Performance	Nominal Cooling Capacity	kW	45	65	140
	Nominal Heating Capacity	kW	46	66	145
	Sound Power Level	dB(A)	66	68	69
Compressor	Type	EVI DC Inverter			
	Quantity	#	1	1	2
Air side heat exchanger	Fan motor type	Brushless DC Fan Motor			
	Fans quantity	#	2	2	2
	Airflow	m <sup>3</sup> /h	0-15000	0-22000	0-44000
Water side heat exchanger	Type	Brazen Plate Heat Exchanger			
	Pump Type	Centrifugal pump			
	Nominal water flow	m <sup>3</sup> /h	7.74	11.19	23.22
	Unit external head	m	22	15	-
Dimensions and weight	Height	mm	1700	1700	2440
	Length	mm	1300	1650	2250
	Width	mm	760	760	1200
	Operating weight	kg	357	440	970
Electrical	Power supply	V/ph/Hz			380/400V-3Ph-50Hz

Nominal conditions:

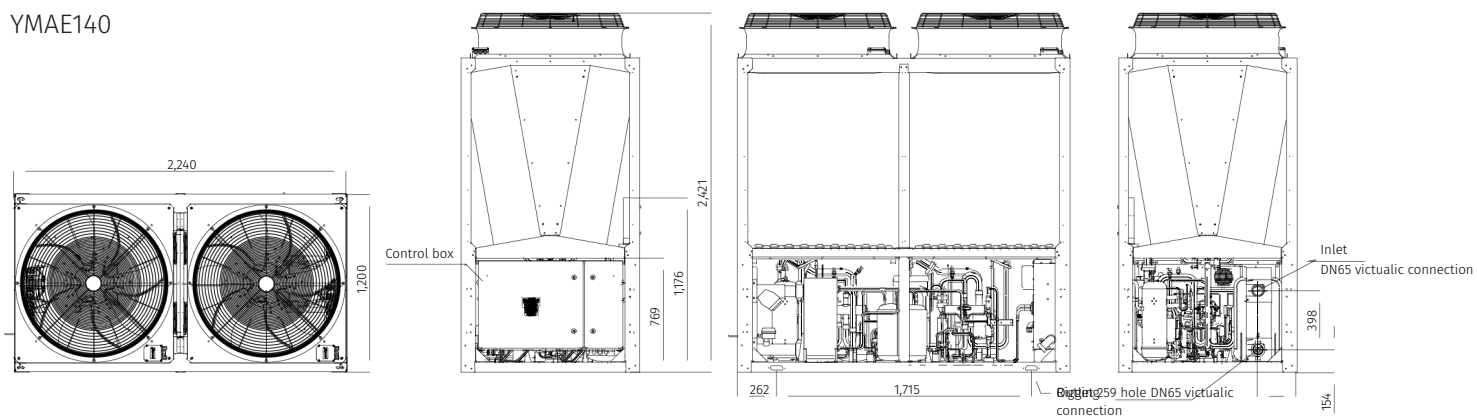
Cooling capacities in kW given for 12/7°C water leaving temperature  $\Delta t$  5°C and 35°C ambient temperature. Heating capacities in kW given for 40/45°C water leaving temperature and 7°C ambient temperature. Sound data is tested in YORK lab which may vary according to different installation conditions.

## Dimensions and hydraulic connections

YMAE045 and 065



YMAE140



Manufacturer reserves the rights to change specifications without prior notice.

# YMAE045 to 065 configuration

