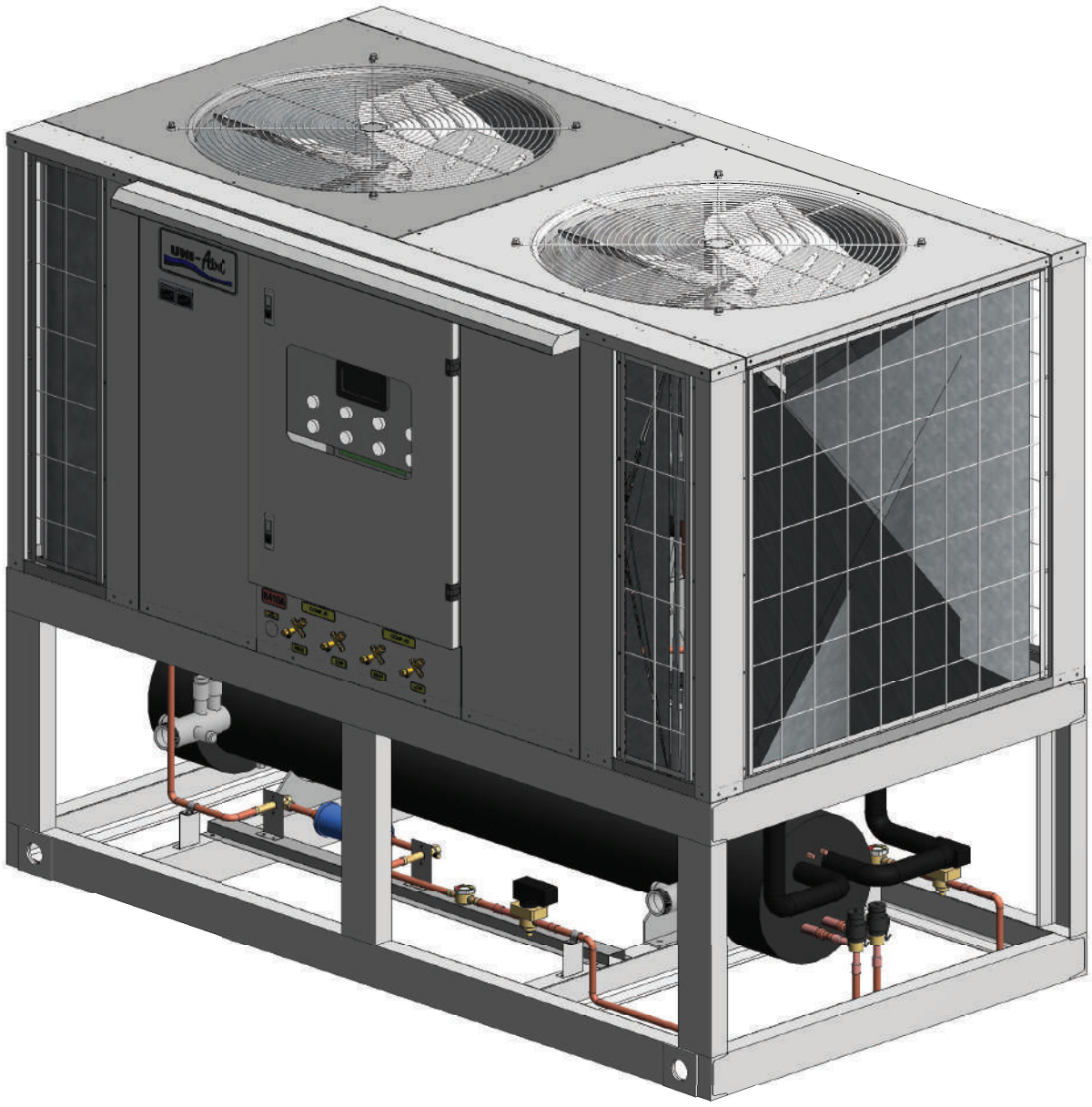
MODEL TACU - CHB INVERTER

PACKAGED AIR COOLED SCROLL CHILLER

16.7 - 25.4 TR

58.61 - 89.3 kw



UNI-Aire®

Air Conditioning Experts

Touch screen Display (Standard)

A wide 4.3" touch screen color display was designed to make controllers' user interface even easier, more complete and intuitive.

Scroll "Inverter" Compressor

- Precision temperature control : unnoticeable swing in temperature because of its adaptation of capacity to match with any variable conditions automatically.
- High efficiency : deliver only the energy needed to satisfy the cooling condition, thereby save energy.

R-410a Refrigerant

- Environmental friendly to ozone layer
- Non Flammable & safe to use

Fan & Motor

Aluminium Fan

Durable and provides large air volume

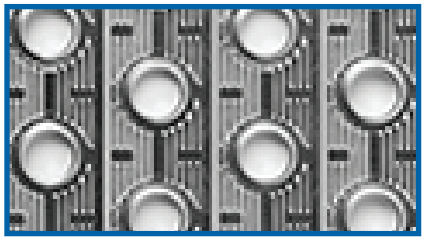
Evaporator (Shell and tube heat exchanger)

- High efficiency performance , low water pressure drop
- Aluminium star rods fitted in copper tubing , create turbulence refrigerant flow and cause higher heat transfer efficiency.
- Removable head and proper selection of head pass avoids excessive refrigerant pressure drops.
- High column strength tube design reduces the hazard of freeze-up.
- Thick insulation to prevent condensation.

Condenser Type : Plate Fin Coil

- **Inner groove copper tube**

Help improve energy efficiency and reduce size of the condenser coil.



- **Aluminium louver fin**

Louvered fins increase the heat-transfer capacity by creating air turbulence which reduces the boundary layer on the fin's surface

Refrigeration parts

Solenoid valve

Use electric power to control valve opening and closing.

Electronic expansion valve

The system is responsive and accurate with automatic valve opening and closing.

Filter drier

Filters out dirt and absorbs moisture. If the machine does not work properly or has acid build-up, the filter drier will also absorb the acid by the filter drier's inner filling.

Sight glass

Characterize the state and humidity of the refrigerant.

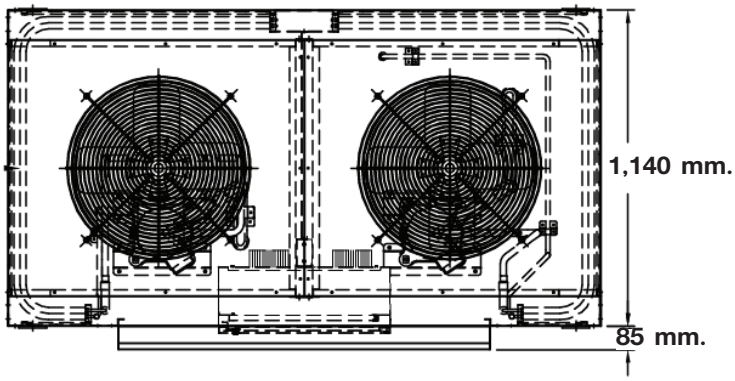
Packed Valve

Service Valves for liquid line and suction line

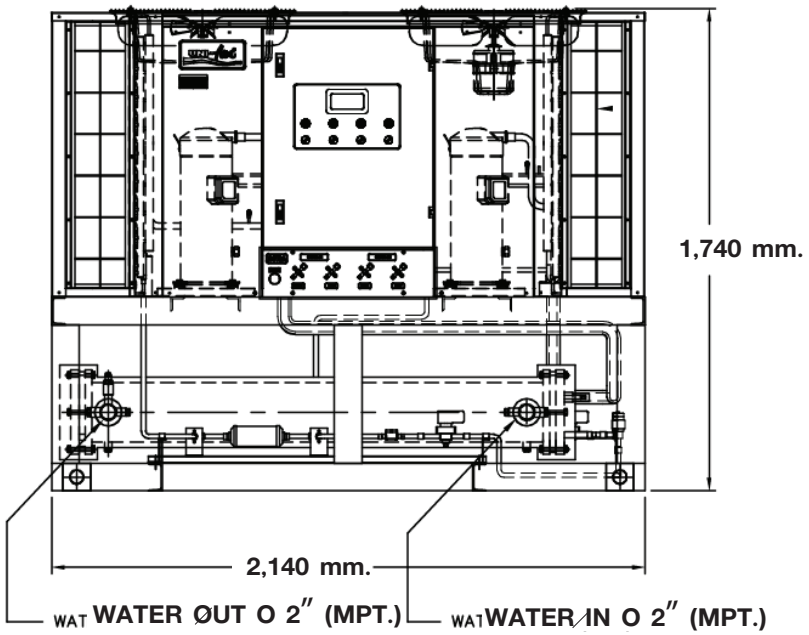
Electical parts

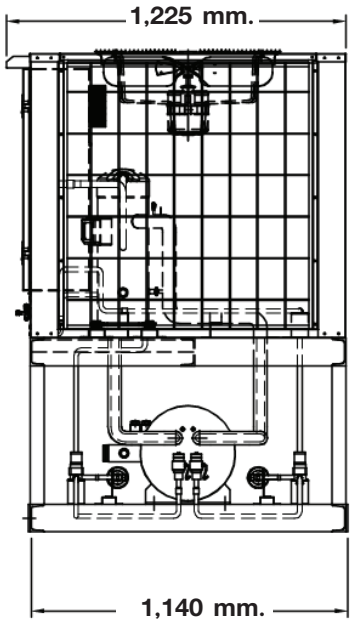
- Magnetic & Overload contactor for fan motor and compressor
- Unit main breaker
- Hi-low Pressure transducer
- Freezestat

Dimensional drawings



Model : TACU-CHB (Inverter)
020 A
025 A
030 A





With International standard quality guaranteed by customers over 70 countries

PHYSICAL DATA

SPECIFICATION MODEL : TACU-CHB					
Model		**TACU-CHB**	**020A**	**025A**	**030A**
Nominal Cooling capacity		MBH	**200**	**259**	**305**
Power Consumption		kW	**19.00**	**24.60**	**28.60**
Nominal COP		kW/kW	**3.09**	**3.09**	**3.13**
IPLV.IP		kW/kW	**4.49**	**4.29**	**4.41**
Minimum Capacity		BTUH	**25%**		
Compressor		Type	**Scroll (Inverter)**		
		No. Of Circuits	2		
		Qty./Unit	2		
Condenser Coil		Type/Material	Aluminium Louver Fin with Inner Groove Copper Tube		
Condenser Fan& Motor	Fan	Type	Propeller Fan		
		Diameter (in)	24	30	
	Motor	RPM	900		
		Air Quantity	14,000	20,000	
		Qty./Unit	2		
Refrigerant		Type	R-410a		
		Charge	Holding Charge : R-410a		
Water Chiller	Chiller Water Flow Rate	GPM	37.8	45.2	55.6
	Chiller Water Temp. In/Out	°F	55/45		
	Chiller Water Pressure Drop	Ft.WG	2.49	7.93	11.64
	Water Connection In/Out	in	2		2-1/2
Dimension	Length	mm.	2,140		
	Width	mm.	1,225		
	Height	mm.	1,740		
Weight Operation		Kgs.	670	755	840

*Nominal Cooling Capacity Based on 38° F Sution Temp. and 95°F Ambient Temp
Fouling Factor 0.0005 Ft^2.h.F/Btu in Chiller
**IPLV calculations according to standard performances (in accordance with AHRI 550-590)
For SI.Unit, Cooling Capacity (kW) $\frac{\text{MBH x1000}}{3412}$
MBH = 1,000 Btu/h

ELECTRICAL DATA

Model	**TACU-CHB**	**020A**	**025A**	**030A**
Compressor (Each)	Qty./Unit	2		
	V/Ph/Hz	380/3/50		
	Power Input (Watt)	9,128.00	11,557.00	13,555.00
	FLA.(Amp.)	15.2	18.2	22.1
Fan Motor (Each)	Qty./Unit	2		
	V/Ph/Hz	380/3/50		
	Power Input (Watt)	632	960	
	FLA.(Amp.)	1.2	2.3	

Note
FLA. =Full load Amp.

**EUROVENT CERTIFIED FOR MODEL DAHH ONLY.
ISO 9001
ISO 14001
ISO 45001
ISO 14064-1
ISO/IEC17025
TIS.2134
TIS.1529
TIS 17025
TLS.8001
Made in Thailand
Quality Product Manufacture by Member of The Federation of Thai Industries
THAILAND ENERGY AWARDS
PRIME MINISTER'S AWARD
• BEST THAI BRAND
• BEST EXPORTER
• GREEN INNOVATION

UNIAIRE CORPORATION CO., LTD.
69 Moo 3 Kingkeaw Rd., Rachatewa District,
Bangplee, Samutprakarn 10540 Thailand
Tel : +662-312-4500, **Website** : www.uni-aire.com
Export Sale : export@uni-aire.com
Domestic Sale : localsale@uni-aire.com