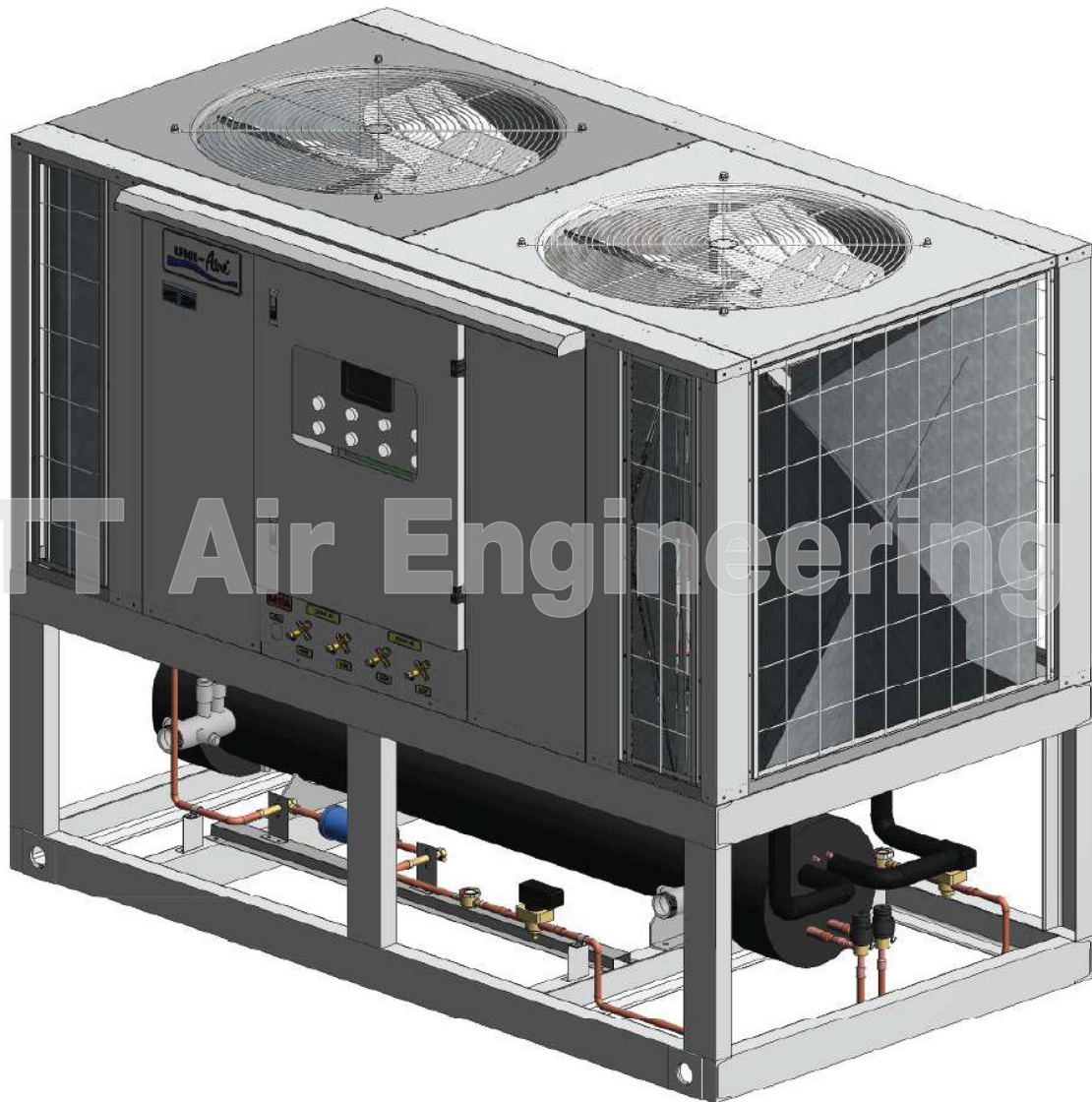


# MODEL TACU - CHB *INVERTER*

**PACKAGED AIR COOLED SCROLL CHILLER**

**16.7 - 25.4 TR**

**58.61 - 89.3 kw**



**UNI - Aire<sup>®</sup>**

**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.



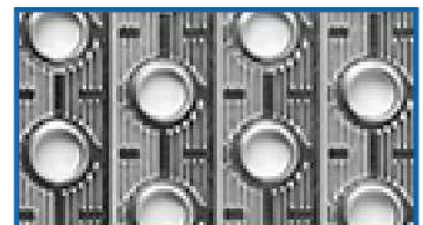
## | Condenser Type : Plate Fin Coil



- 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.



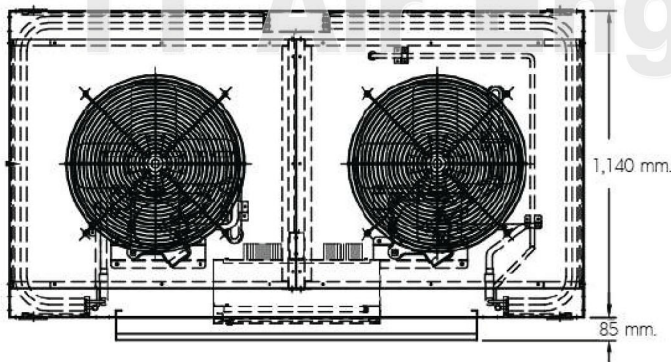
Packed Valve

Service Valves for liquid line and suction line

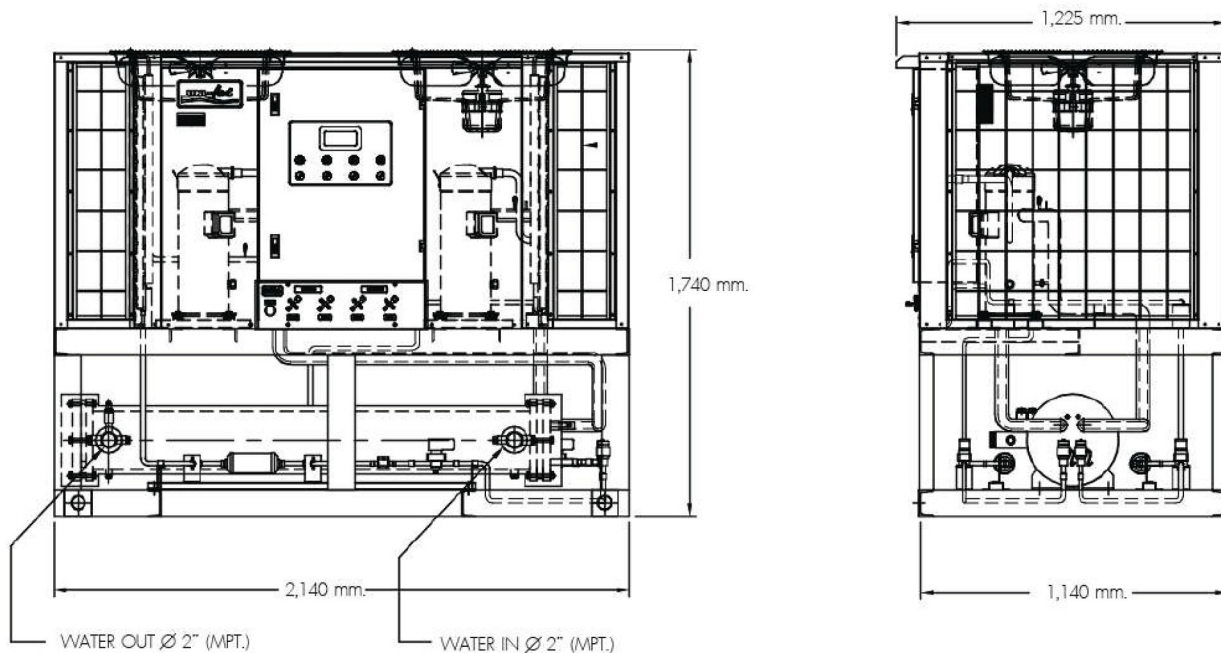
## Electrical parts

- 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



# PHYSICAL DATA

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	Propeller Fan			
		Type	Propeller Fan			
		Diameter (in)	24	30		
		RPM	900			
		Motor	Air Quantity	14,000	20,000	
Refrigerant		Qty./Unit	2			
		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<sup>2</sup>.h.F/Btu in Chiller

\*\*IPLV calculations according to standard performances (in accordance with AHRI 550-590)

For SI.Unit, Cooling Capacity (kW) =  $\frac{MBH \times 1000}{3412}$

MBH = 1,000 Btu/h

3412

# 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.



ISO 9001  
ISO 14001  
TIS 18001  
OHSAS 18001  
ISO 45001



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