

MODEL TACU-CHB

PACKAGED AIR-COOLED CHILLER

5.57- 46.5 TR

UNI-Aire®
Air Conditioning Experts



SPECIFICATIONS MODEL : TACU-CHB

UNIT CASING

- Constructed of zinc-coated heavy-gauge, galvanized steel
- Powder-coated for protection against rust

COMPRESSOR

- Hermetic scroll compressor
- All compressor are mounted on vibration isolation

REFRIGERANT

- R410a

HEAT EXCHANGER

- Seamless copper tubes, mechanically expanded into aluminium fins with full height collars
- Leak tested at 600 Psig from factory
- High Efficiency AC Axial Fan
- Shell and Tube evaporator

STANDARD ACCESSORIES

REFRIGERATION PARTS

- Service Valves for Liquid line and Suction line
- Thermostatic expansion valves
- Sight Glasses
- Filter Driers

ELECTRICAL PARTS

- Magnetic & Overload contactor for fan motor and compressor
- High-Low pressure switches
- Digital temperature control
- Timer Delay Relay Devices
- Over and Under Voltage Protection

PHYSICAL DATA MODEL : TACU-CHB (008AS to 020AS)

Model	TACU-CHB	008AS	009AS	010AS	012AS	015AS	020AS
NOMINAL CAPACITY***	MBH.	68.7	78.0	93.4	113.0	139.5	180.0
POWER CONSUMPTION	(Watt)	6,635	7,755	8,915	10,930	13,170	16,220
POWER SUPPLY	(V/Ph/Hz)	380/3/50					
COMPRESSOR	Type	Hermetic "Scroll"					
	Qty/unit	1					
CONDENSER COIL	Type	Aluminium Louver Fin with Inner Groove Copper Tube					
Face Area	(ft^2)	14.88			20.25		23.66
Rows/FPI		3/14	3/16	4/14	2/16	3/14	4/16
Tube Size	(Inch)	7 mm.					
CONDENSER FAN & MOTOR		Propeller Fan : Vertical Discharge : Direct Drive					
Quantity		1			2		
Power	(Watt)	485					
RPM		925					
REFRIGERANT	Type	R-410A					
	Charge	Holding Charge : R-410A					
WATER CHILLER		Shell and Tube Heat Exchanger					
Chilled Water Flow Rate	(GPM)	13.7	15.6	18.6	22.6	27.9	36.0
Chilled Water Temp. IN/OUT	°F	55/45					
Chilled Water Pressure Drop (Ft. WG)		2.51	4.08	5.65	8.00	3.69	2.23
Water Connection IN/OUT	(Inch)	1-1/4				1-1/2	2
DIMENSION							
Length	(mm.)	1,500					2,100
Width	(mm.)	810					820
Height	(mm.)	1,545					1,775
WEIGHT (Aprox.)	(kgs.)	316	338	361	426	441	620

***Normal capacity based on 38 °F suction temp. And 95 °F ambient temp (1 MBH=1,000 BTUH)

ELECTRICAL DATA

MODEL	TACU-CHC	008AS	009AS	010AS	012AS	015AS	020AS
COMPRESSOR (Each)	Quantity	1					
	Volt/Phase/Hz	380/3/50					
	Power Input (Watt)	6,150	7,270	8,430	9,960	12,200	15,250
	FLA. (Amp.)	10.98	13.83	16.2	17.99	24.45	26.81
	LRA (Amp.)	101	127	153		174	219
FAN MOTOR (Each)	Quantity	1			2		
	Volt/Phase/Hz	380/3/50					
	Power Input (Watt)	485					
		1.23					

PHYSICAL DATA MODEL : TACU-CHB (020AS-2C to 060A-2C)

Model	TACU-CHB	020AS-2C	025AS	025AS-2C	030AS-2C	040AS-2C	050A-2C	060A-2C
NOMINAL CAPACITY***	MBH.	186.8	224.0	226.0	279.0	360.0	452.0	558.0
POWER CONSUMPTION	(Watt)	17,410	22,038	22,685	27,138	34,607	43,950	54,280
POWER SUPPLY	(V/Ph/Hz)	380/3/50						
COMPRESSOR	Type	Hermetic “Scroll”						
	Qty/unit	2	1	2			4	
CONDENSER COIL	Type	Aluminium Louver Fin with Inner Groove Copper Tube						
Face Area	(ft^2)	23.66	40.51			49.19	56.67	
Rows/FPI		4/16	3/14		4/14	3/16	3/14	
Tube Size	(Inch)	7 mm.					3/8	
CONDENSER FAN & MOTOR		Propeller Fan : Vertical Discharge : Direct Drive						
Quantity		2				3		4
Power	(Watt)	485	1,369					
RPM		925	927					
REFRIGERANT	Type	R-410A						
	Charge	Holding Charge : R-410A						
WATER CHILLER		Shell and Tube Heat Exchanger						
Chilled Water Flow Rate	(GPM)	37.2	44.8	45.3	55.8	72.2	90.4	72.2
Chilled Water Temp. IN/OUT	°F	55/45						
Chilled Water Pressure Drop (Ft. WG)		2.49	4.15	4.22	11.63	7.50	8.93	7.27
Water Connection IN/OUT	(Inch)	2			2-1/2	3		
DIMENSION								
Length	(mm.)	2,100	2,140			2,860	2,300	
Width	(mm.)	820	1,260	1,220	1,230		2,140	
Height	(mm.)	1,775	1,865					
WEIGHT (Aprox.)	(kgs.)	590	725	695	810	980	1,179	1,251

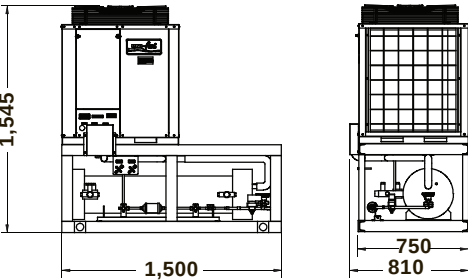
***Normal capacity based on 38 °F suction temp. And 95 °F ambient temp (1 MBH=1,000 BTUH)

ELECTRICAL DATA

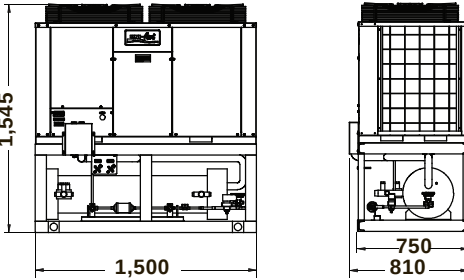
MODEL	TACU-CHC	020AS-2C	025AS	025AS-2C	030AS-2C	040AS-2C	050A-2C	060A-2C
COMPRESSOR (Each)	Quantity	2	1	2			4	
	Volt/Phase/Hz	380/3/50						
	Power Input (Watt)	8,220	19,300	9,960	12,200	15,250	9,960	12,200
	FLA. (Amp.)	14.53	34.31	17.99	24.45	26.81	17.99	24.25
	LRA (Amp.)	153	272	153	174	219	153	174
FAN MOTOR (Each)	Quantity	2				3		4
	Volt/Phase/Hz	380/3/50						
	Power Input (Watt)	485	1,369					
	FLA. (Amp.)	1.23	3.36					

DIMENSIONAL DRAWINGS MODEL : TACU-CHB-008AS to TACU-CHB-060A-2C

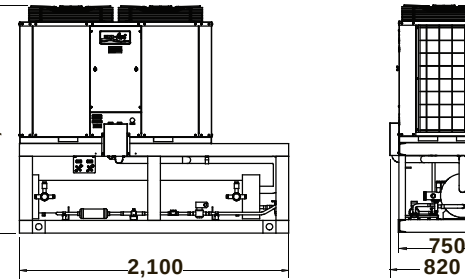
MODEL : TACU-CHB-008AS, 009AS, 010AS



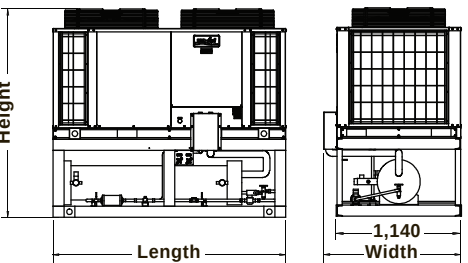
MODEL : TACU-CHB-012AS, 015AS



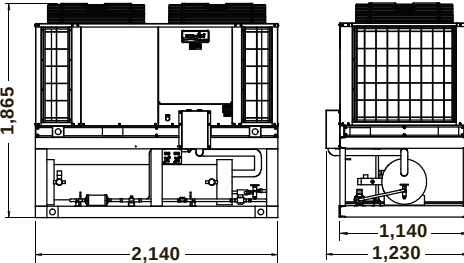
MODEL : TACU-CHB-020AS , 020AS-2C



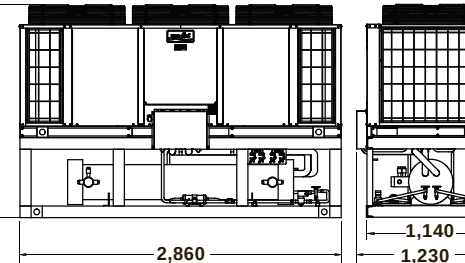
MODEL : TACU-CHB-025AS , 025AS-2C



MODEL : TACU-CHB-030AS-2C

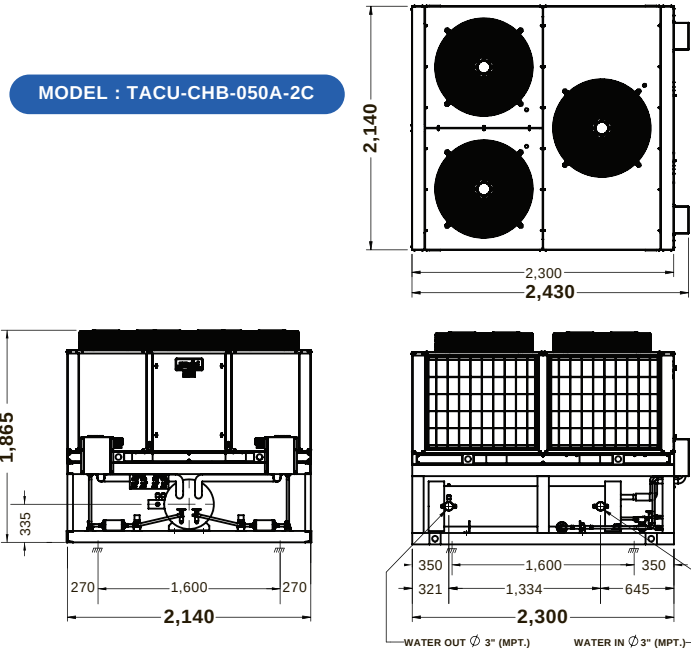


MODEL : TACU-CHB-040AS-2C

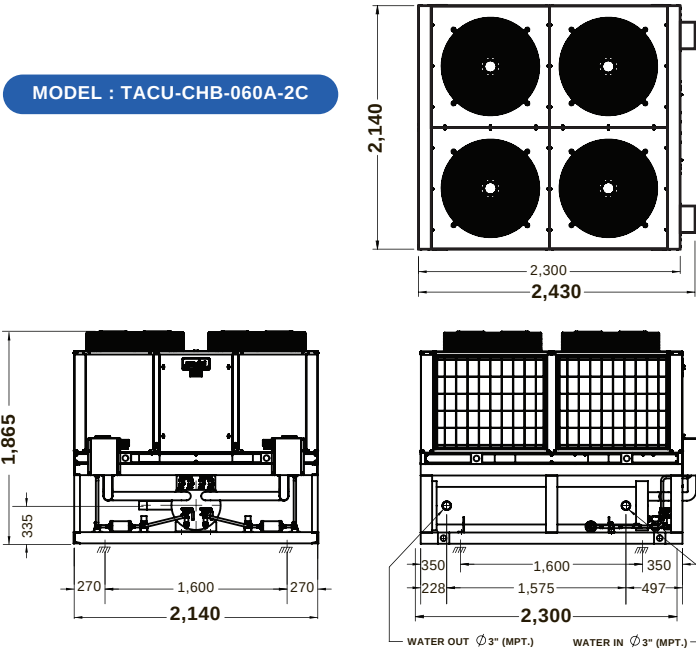


Model	Length	Width	Height
TACU-CHB 025AS	2,140	1,260	1,865
TACU-CHB 025AS-2C		1,220	

MODEL : TACU-CHB-050A-2C



MODEL : TACU-CHB-060A-2C



Unit : mm.(Millimeter)



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