



FOCUSED ON APPLICATION HVAC
Handling Unit operates for Heating and Cooling



Air Handler Unit (Information)

AHU Model:	CAHU-E-480L	
Capacity Nominal:	40.00 TR	
Capacity Total:	165.80 kW	47.19 TR
Capacity Sensible:	113.90 kW	32.42 TR
Width:	2,654.00 mm	104.49 in
Length:	1,406.00 mm	55.35 in
Height:	1,306.00 mm	51.42 in
Shipping Weight:	692.00 kg	1,525.60 lb
Nominal Voltage:	230-460/3/60	

*** Garantía 1 (uno) Año en partes**

Air Flow

Supply Air Flow:	22,000.00 m ³ / h	12,948.69 CFM
Supply Air Fan Ext Pressure:	320.00 Pa	0.128 in CA
Supply Air ESP:	241.00 Pa	0.097 in CA

Unit Specification

Installation Location:	Indoor	
Door Direction:	Left Type	
Inner / Bottom Panel:	0.50 mm GI	0.02 in GI
Inner / Top Panel:	0.50 mm GI	0.02 in GI
Panel Thick:	25.00 mm	0.98 in
Base Frame Height:	80.00 mm	3.15 in
Outer Panel:	0.45mm Pre-coated Steel	
Insulation Material:	Polyurethane	
Base Frame Material:	Steel Plate	
Unit Install Type:	Floor Mounted	

External Filter

Filter Depth:	10.00 mm	0.39 in
Face Velocity:	2.05 m/s	403.54 ft / min
Filter Type:	G2	
Media Material:	Nylon	
Size / Qty:	645 mm X 577 mm	8.00 Pieces
Air Pressure Drop:	10.00 Pa	0.004 In CA
Ext. Direction	Side Extraction	
Brand:	Standard	
Install Mode:	Sliding Type	
Frame Material:	Galvanized Steel	

Cooling Coil

Supply Air Flow:	22,000.00 m ³ / h	12,948.69 CFM
Face Velocity:	2.40 m/s	472.44 ft/min
Coil Model:	3PWQ5M-42Tx2390(DN65)	
Fin Material:	Hydrophilic Aluminum	
Frame Material:	Galvanized Steel	
Tube Direction:	Left Type	

Cooling Coil

Number of Coils:	1.00 Pieces	
Tube Material:	Copper	
Header Material:	Seamless Steel Pipe	
Header Diameter:	DN 65 Ø	2.50 In Ø
Moisture Eliminator:	None	
DP Material:	Standard	

Water Side Condition Heating

Capacity Total:	308.70 kW	87.86 TR
Entering Water Temp:	60.00 °C	140.00 °F
Leaving Water Temp:	49.40 °C	120.92 °F
Water Flow:	6.96 L/s	110.32 GPM
Water Pressure Drop (WPD):	42.20 kPa	14.1181 ft CA

Water Side Condition Cooling

Capacity Total:	165.80 kW	47.19 TR
Capacity Sensible:	113.90 kW	32.42 TR
Entering Water Temp:	7.00 °C	44.60 °F
Leaving Water Temp:	12.10 °C	53.78 °F
Water Flow:	7.74 L/s	122.68 GPM
Water Pressure Drop (WPD):	50.00 kPa	16.7276 ft CA

Air Side Condition Heating

Entering Air Temp (DB):	15.00 °C	59.00 °F
Entering Air Temp (WB):	12.00 °C	53.60 °F
Leaving Air Temp (DB):	56.60 °C	133.88 °F
Leaving Air Temp (WB):	11.90 °C	53.42 °F
Air Pressure Drop:	150.00 Pa	0.060 in CA

Air Side Condition Cooling

Entering Air Temp (DB):	27.00 °C	80.60 °F
Entering Air Temp (WB):	19.50 °C	67.10 °F
Leaving Air Temp (DB):	11.60 °C	52.88 °F
Leaving Air Temp (WB):	11.60 °C	52.88 °F
Air Pressure Drop:	150.00 Pa	0.060 in CA



SUPPLY AIR FAN

Access Door:	Standard	
Supply Air Flow:	22,000.00 m ³ /h	12,948.69 CFM
Fan Brand:	Langdi	
Fan Bearing:	Standard	
Fan Model:	LDT18-18L2	
Supply Air Fan:	FT	
Blade Type:	Forward Curved	
Fan Speed:	775.90 Rpm	
Fan Speed Limit:	1,100.00 Rpm	
Fan Shaft Power:	4.80 Kw	
Fan Outlet Air Velocity:	11.50 m/s	2,263.78 ft/min
Fan Total Efficiency:	60.70%	
Fan Static Efficiency:	50.70%	
Fan Pulley:	SPA224-3-2517	
Fan Pulley Bush:	2517/35	
Air Outlet Type:	Flange	

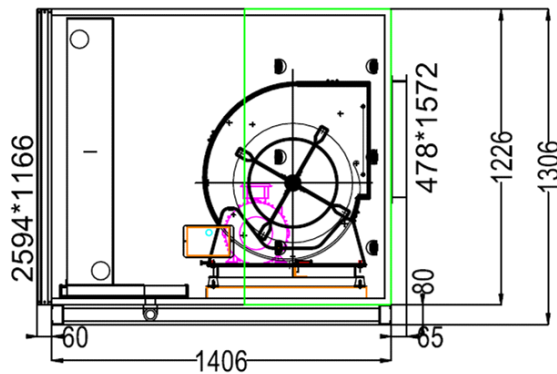
SUPPLY AIR FAN

Access Direction:	Left type	
TSP:	401.00 Pa	0.161 In CA
Motor Brand:	Brook	
Motor Type (reinforced):	Inverter Duty motor W/O FCF	
Motor Type:	NOT INCLUDE frequency inverter	
Motor Velocity:	1 (ONE) Speed	
Motor (Power-Pole):	7.50 kW - 4P	10.06 hp - 4P
Motor Energy Efficiency:	IE3	230-460/3/60
Motor location:	SM	
Wiring Direct:	Left type	
Motor Pulley:	SPA100-3-1610	
Motor Pulley Bush:	1610/38	
Air Outlet Size:	478mm X 1572mm	18.82in X 61.89in
Belt:	SPA1257	
Air Outlet Location:	Front Panel	

SOUND POWER

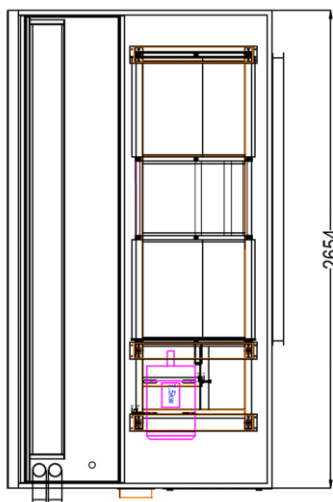
Sound Power:	63.00 Hz	125.00 Hz	250.00 Hz	500.00 Hz	1.00 kHz	2.00 kHz	4.00 kHz	8.00 kHz	Total dB(A)
Inlet LwI (A):	59.2	69.2	74.2	77.2	78.2	75.2	73.2	67.2	83.2
Outlet LwO (A):	62.2	72.2	77.2	80.2	81.2	78.2	76.2	70.2	86.3
Type Lw (A):	58.8	62.3	67.7	66.5	68.0	65.5	58.2	28.0	73.7

UNIT DIMENSIONS

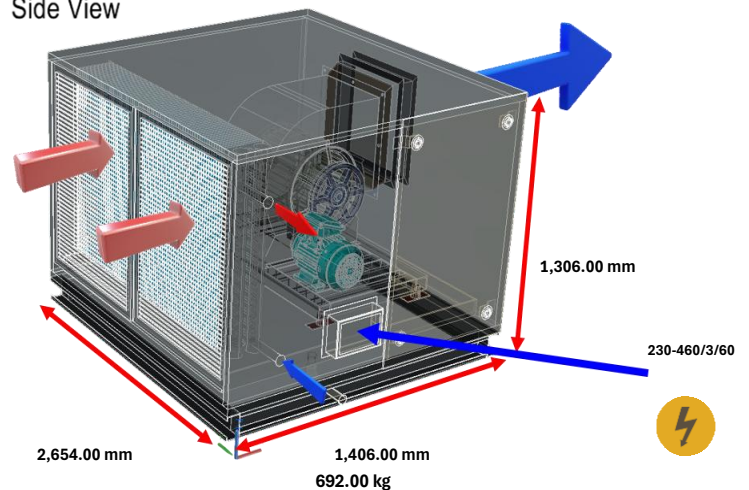


CAHU-E-480L

Side View



Top View



Coral

V3.01