



FOCUSED ON APPLICATION HVAC
Handling Unit operates for Heating and Cooling



Air Handler Unit (Information)

AHU Model:	CAHU-E-090L	
Capacity Nominal:	7.50 TR	
Capacity Total:	28.20 kW	8.03 TR
Capacity Sensible:	22.20 kW	6.32 TR
Width:	1,124.00 mm	44.25 in
Length:	1,106.00 mm	43.54 in
Height:	847.00 mm	33.35 in
Shipping Weight:	186.00 kg	410.06 lb
Nominal Voltage:	230-460V / 3 Ph / 60Hz	

*** Garantía 1 (uno) Año en partes**

Air Flow

Supply Air Flow:	5,000.00 m ³ / h	2,942.89 CFM
Supply Air Fan Ext Pressure:	170.00 Pa	0.068 in CA
Supply Air ESP:	66.00 Pa	0.026 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:	1.88 m/s	370.08 ft / min
Filter Type:	G2	
Media Material:	Nylon	
Size / Qty:	528mm X 701 mm	2.00 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:	5,000.00 m ³ / h	2,942.89 CFM
Face Velocity:	2.68 m/s	527.56 ft/min
Coil Model:	2PWP3N-28Tx880(DN32)	
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 32 Ø	1.25 In Ø
Moisture Eliminator:	None	
DP Material:	Standard	

Water Side Condition Heating

Capacity Total:	57.00 kW	16.22 TR
Entering Water Temp:	60.00 °C	140.00 °F
Leaving Water Temp:	50.00 °C	122.00 °F
Water Flow:	1.37 L/s	21.71 GPM
Water Pressure Drop (WPD):	27.60 kPa	9.2336 ft CA

Water Side Condition Cooling

Capacity Total:	28.20 kW	8.03 TR
Capacity Sensible:	22.20 kW	6.32 TR
Entering Water Temp:	7.00 °C	44.60 °F
Leaving Water Temp:	12.00 °C	53.60 °F
Water Flow:	1.30 L/s	20.61 GPM
Water Pressure Drop (WPD):	28.20 kPa	9.4344 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):	48.80 °C	119.84 °F
Leaving Air Temp (WB):	16.00 °C	60.80 °F
Air Pressure Drop:	100.00 Pa	0.040 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):	13.80 °C	56.84 °F
Leaving Air Temp (WB):	13.30 °C	55.94 °F
Air Pressure Drop:	100.00 Pa	0.040 in CA



SUPPLY AIR FAN

Access Door:	Standard	
Supply Air Flow:	5,000.00 m ³ / h	2,942.89 CFM
Fan Brand:	Langdi	
Fan Bearing:	Standard	
Fan Model:	LDT12-9L	
Supply Air Fan:	FT	
Blade Type:	Forward Curved	
Fan Speed:	800.10 Rpm	
Fan Speed Limit:	1,600.00 Rpm	
Fan Shaft Power:	0.70 Kw	
Fan Outlet Air Velocity:	13.20 m/s	2,598.43 ft/min
Fan Total Efficiency:	54.30%	
Fan Static Efficiency:	34.10%	
Fan Pulley:	SPZ160-2-2012	
Fan Pulley Bush:	2012/25	
Air Outlet Type:	Flange	

SUPPLY AIR FAN

Access Direction:	Left type	
TSP:	176.00 Pa	0.071 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):	1.10 kW - 4P	1.48 hp - 4P
Motor Energy Efficiency:	IE3	230-460V / 3 Ph / 60Hz
Motor location:	SM	
Wiring Direct:	Left type	
Motor Pulley:	SPZ71-2-1108	
Motor Pulley Bush:	1108/24	
Air Outlet Size:	341mm X 309mm	13.42in X 12.16in
Belt:	SPZ912	
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):	55.9	65.9	70.9	73.9	74.9	71.9	69.9	63.9	79.9
Outlet LwO (A):	58.9	68.9	73.9	76.9	77.9	74.9	72.9	66.9	83.0
Type Lw (A):	55.5	59.0	64.4	63.2	64.7	62.2	54.9	24.7	70.4

UNIT DIMENSIONS

