



FOCUSED ON APPLICATION HVAC
Handling Unit operates for Heating and Cooling



Air Handler Unit (Information)

AHU Model:	CAHU-E-180L	
Capacity Nominal:	15.00 TR	
Capacity Total:	56.50 kW	16.08 TR
Capacity Sensible:	41.10 kW	11.70 TR
Width:	1,430.00 mm	56.30 in
Length:	1,406.00 mm	55.35 in
Height:	1,102.00 mm	43.39 in
Shipping Weight:	325.00 kg	716.50 lb
Nominal Voltage:	230-460V / 3 Ph / 60Hz	

* Garantía 1 (uno) Año en partes

Air Flow

Supply Air Flow:	9,000.00 m ³ / h	5,297.19 CFM
Supply Air Fan Ext Pressure:	220.00 Pa	0.088 in CA
Supply Air ESP:	131.00 Pa	0.053 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:	1.93 m/s	379.92 ft / min
Filter Type:	G2	
Media Material:	Nylon	
Size / Qty:	681mm X 475 mm	4.00 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:	9,000.00 m ³ / h	5,297.19 CFM
Face Velocity:	2.45 m/s	482.28 ft/min
Coil Model:	3PWH3N-34Tx1180(DN40)	
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 40 Ø	1.50 In Ø
Moisture Eliminator:	None	
DP Material:	Standard	

Water Side Condition Heating

Capacity Total:	116.70 kW	33.21 TR
Entering Water Temp:	60.00 °C	140.00 °F
Leaving Water Temp:	49.70 °C	121.46 °F
Water Flow:	2.63 L/s	41.69 GPM
Water Pressure Drop (WPD):	60.40 kPa	20.2070 ft CA

Water Side Condition Cooling

Capacity Total:	56.50 kW	16.08 TR
Capacity Sensible:	41.10 kW	11.70 TR
Entering Water Temp:	7.00 °C	44.60 °F
Leaving Water Temp:	12.10 °C	53.78 °F
Water Flow:	2.64 L/s	41.84 GPM
Water Pressure Drop (WPD):	60.70 kPa	20.3073 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):	53.50 °C	128.30 °F
Leaving Air Temp (WB):	12.90 °C	55.22 °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):	13.40 °C	56.12 °F
Leaving Air Temp (WB):	13.10 °C	55.58 °F
Air Pressure Drop:	100.00 Pa	0.040 in CA



SUPPLY AIR FAN

Access Door:	Standard	
Supply Air Flow:	9,000.00 m ³ / h	5,297.19 CFM
Fan Brand:	Langdi	
Fan Bearing:	Standard	
Fan Model:	LDT18-13LK	
Supply Air Fan:	FT	
Blade Type:	Forward Curved	
Fan Speed:	612.30 Rpm	
Fan Speed Limit:	1,200.00 Rpm	
Fan Shaft Power:	1.40 Kw	
Fan Outlet Air Velocity:	12.20 m/s	2,401.57 ft/min
Fan Total Efficiency:	61.00%	
Fan Static Efficiency:	44.60%	
Fan Pulley:	SPZ250-2-2012	
Fan Pulley Bush:	2012/35	
Air Outlet Type:	Flange	

SUPPLY AIR FAN

Access Direction:	Left type	
TSP:	241.00 Pa	0.097 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):	2.20 kW - 4P	2.95 hp - 4P
Motor Energy Efficiency:	IE3	230-460V / 3 Ph / 60Hz
Motor location:	SM	
Wiring Direct:	Left type	
Motor Pulley:	SPZ90-2-1610	
Motor Pulley Bush:	1610/28	
Air Outlet Size:	478mm X 430mm	18.82in X 16.93in
Belt:	SPZ1362	
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):	53.8	63.8	68.8	71.8	72.8	69.8	67.8	61.8	77.8
Outlet LwO (A):	56.8	66.8	71.8	74.8	75.8	72.8	70.8	64.8	80.9
Type Lw (A):	53.4	56.9	62.3	61.1	62.6	60.1	52.8	22.6	68.3

UNIT DIMENSIONS

