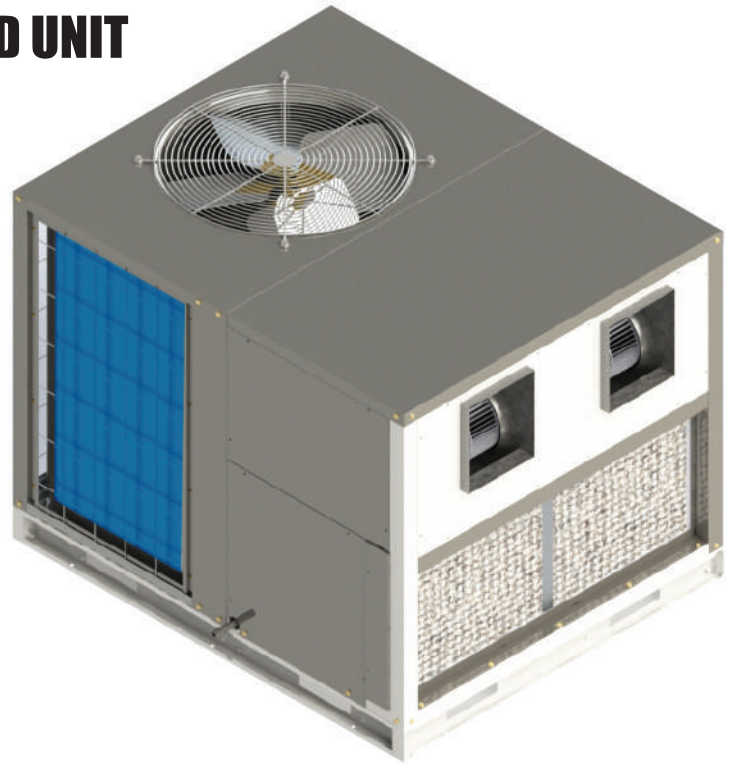


# MODEL PAU

## PACKAGED ROOFTOP AIR COOLED UNIT

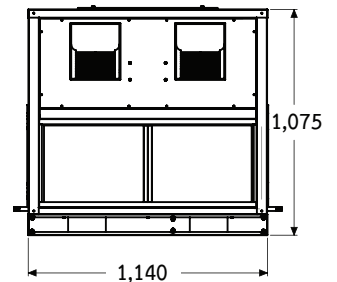
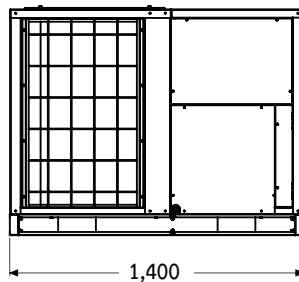
Capacity Range from  
80,000 to 150,000 BTUH  
( 23.4 kw - 44.0 kw )  
Cooling only



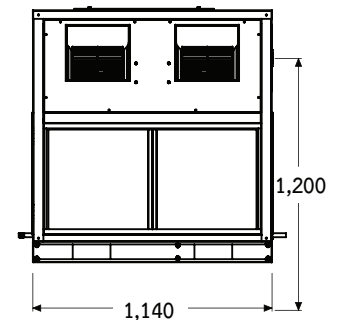
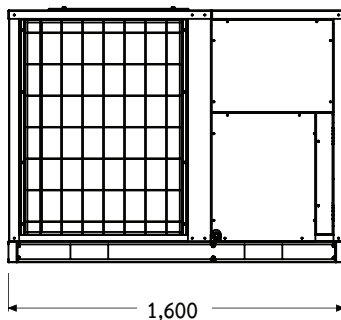
### DESCRIPTION

- The PAU units are single package air cooled air conditioners.
- Suitable for outdoor installation either on a roof or at ground floor.
- Completed with pipe, wiring and refrigerant charging from the factory.
- Low noise.
- Hermetic scroll compressors.
- HP and LP cut-out switches.
- Air filters.
- Electrical panel.
- Wide range of airflows.
- Solid foundation to protect the unit during shipment.
- Durable construction.
- R-410a Refrigerant

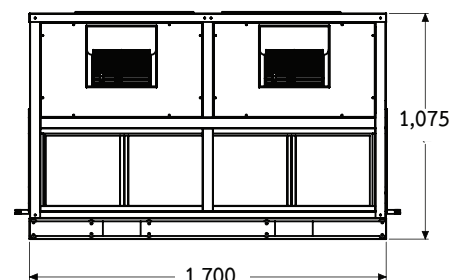
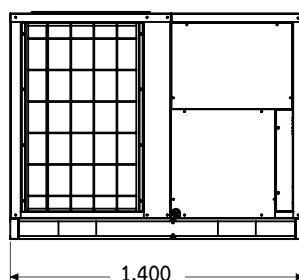
### MODEL : PAU-008A to 009A



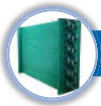
### MODEL : PAU-010A to 012A



### MODEL : PAU-015A



## Special fin type for anti corrosion purpose (optional)



### Green guard coated on Condenser coils

Corrosion prevention caused by ocean vapor and chemicals which extends coil life span.



### Copper fin condenser coil

Fin made from copper, extends life span of condenser coil. Suitable for seaside area and high acidic factory environment.

\*Consulting Uni-Aire's sales engineer for possibility for each location is recommended.

## Thermostat



Digital wired thermostat  
standard equipment



Wired digital remote  
controller WIFI (Option)



Wireless digital thermostat  
(Option)



### standard equipment



#### 3 Speed Motor

3 speeds adjustable wind blow  
High - Medium - Low



#### Timer On / Off

24-hour timer for turning on or  
turning off the air conditioning  
system



#### Turbo Fan

Powerful turbo motor helps fill  
the coolness to thr room quickly  
yet quietly.



#### Sleep Mode

Adjust suitable temperature  
for sleeping time

### Digital wired thermostat

Modern-designed, easy-to-use digital wired thermostat with LCD display. Can be used as a control signal receiver from wireless remote controller

### optional



### Wired digital remote controller WIFI

With WIFI controller, multiple units in a same or different area can be operated from anywhere through internet connection



Residence



Hotel



Office



Other places



## GENERAL

The PAU air cooled single packaged air conditioners shall be completely factory assembled, leak-tested, evacuated and fully-charged with R-410a, ready for installation.

## COMPRESSOR

All model shall have scroll hermetic compressor(s). All compressors are mounted on vibration isolators.

## CONDENSER COIL

Coils shall be internally enhanced, seamless copper tubes, mechanically expanded into aluminium blue fins with full height collars. Coil shall be leak tested at 600 PSIG from factory.

## CONDENSER FAN AND MOTOR

Fan shall be dynamically and statically balanced, direct drive, providing vertical air discharge from extended orifices for efficiency and low noise. direct drive

## REFRIGERANT CIRCUIT

The refrigerant circuit shall be factory piped, leak tested and fully charged with R-410a. Each refrigerant circuit shall consist of a compressor, expansion valve and service valve.

## UNIT CASING

The unit shall be constructed from elector galvanized steel. The exterior panels shall be acoustically lined with rubber insulation. The insulation shall be affixed to the casing with the water proof adhesive.

## EVAPORATOR COIL

The direct expansion evaporator shall consist of full face coil with counterflow circuits, seamless 7 mm. OD staggered copper tubes mechanically bonded into aluminium blue fins.

## EVAPORATOR BLOWER

The evaporator blower shall be the double inlet, forward curved centrifugal type and statically and dynamically balanced.

## UNIT CONTROL

Each system shall contain factory mounted wired and tested controls required to operate and protect the unit. The control system shall include compressor overload protection, motor winding protection, high and low pressure cutouts to guard against compressor damage due to high discharge head pressure and system leakage.

# PHYSICAL DATA

Model	PAU	UNIT	008A	009A	010A	012A	015A
Cooling Capacity		MBH.	80.0	90.0	100.0	120.0	150.0
		KW	23.4	26.4	29.3	35.2	44.0
Nominal Air flow		cfm.	1,950	2,500	2,950	3,300	4,250
		L/s	920	1,180	1,392	1,557	2,006
Power consumption		Kw	7.84	8.95	10.07	12.09	15.01
Power Supply		V / Ph / Hz	380/3/50				
Compressor		Type	Hermatic "Scroll"				
		Quantity	1				
		Nominal (HP)	7.5	8.6	10	12	15
Condenser Coil		Type	Aluminium Blue Fin with Inner Groove Copper Tube				
		Face Area (sq.ft)	15.83	15.83	20.9	20.9	21.13
		Rows Deep	3	3	4	4	5
		Fin per Inch	12	16	12	12	14
		Tube OD. (Inches)	7 mm.				
Condenser Fan		QTY. x Fan Dia	1x24	1x24	1x24	1x30	2x20
		Motor HP Standard	3/4			1	1/3
		Air Flow	7,000			10,000	10,000
Evaporator Coil		Type	Aluminium Blue Fin with Inner Groove Copper Tube				
		Face Area (Inch)	5.79	5.79	6.61	6.61	8.66
		Rows Deep	6	6	5	5	6
		Fin per Inch	12	12	14	14	12
		Tube OD. (Inches)	7 mm.				
Evaporator Fan		Expansion Valves	Thermostatic Expansion Valves				
		Blower Dia x Width (Inch)	9x7		9x9		10x10
		Quantity	2				
		Motor HP Standard	680W	800W	680W	800W	680W
		RPM	1,200/1,100/1,000	1,350/1,250/1,150	1,200/1,100/1,000	1,350/1,250/1,150	1,200/1,100/1,000
	External Static Pressure (in.Wg)	0.6					
Refrigerant		Type	R-410a				
		Holding	R-410a (Fully Charge)				
Air Filter		Type	Aluminium Air Filter				
Dimension		Width	1,140	1,140	1,140	1,140	1,700
		Height	1,400	1,400	1,600	1,600	1,400
		Depth	1,075	1,075	1,200	1,200	1,075
Weight Operating		Kgs.	299	332	387	390	450

\*\*\*Nominal Capacity Based on 45°F Suction Temp. And 95°F ambient temp (1 MBH. = 1000 BTUH)

# ELECTRICAL DATA

Model	PAU	UNIT	008A	009A	010A	012A	015A
Compressor (Each)		Quantity	1				
		V / Ph / Hz	380/3/50				
		Power input (watt)	6,170	7,290	8,400	9,970	12,300
		FLA. (Amp.)	11.00	12.76	16.17	18.00	24.55
		LRA. (Amp.)	101	111	153	153	174
Blower motor (Each)		Quantity	1				
		V / Ph / Hz	220/1/50				
		Power input (watt)	1,141	1,131	1,141	1,131	1,141 X 2
		FLA. (Amp.)	5.09	4.72	5.09	4.72	5.09 X 2
Fan motor (Each)		Quantity	1				
		V / Ph / Hz	220/1/50				
		Power input (watt)	528		986		213 X 2
		FLA. (Amp.)	2.4		3.01		0.98 X 2

FLA = full Load Amp.

LRA = Locked Rotor Amp



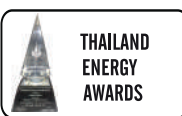
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