

# MODEL PAU

## PACKAGED AIR COOLED UNIT

Capacity Range from

60,000 to 600,000 BTUH

( 17.6 kw - 175.8 kw )

Cooling only or

Cooling and Heating



### FEATURES:

- Wide range of indoor airflows.
- Solid foundation to protect the unit during shipment and rigging holes for overhead crane.
- Electrical supply connections and knockouts provided.
- Multiple refrigeration circuits.
- Durable construction.

### DESCRIPTION

- The PAU units are single package air cooled air conditioners.
- PAU for cooling only.
- PAUJ for cooling and heating.
- Suitable for outdoor installation either on a roof or at ground floor.
- Completed with pipe, wiring and refrigerant charge from the factory.
- Low noise.
- Hermetic compressors for model 006 / 060.
- HP and LP cut-out switches.
- Air filters.
- Electrical panel.



# GUIDE SPECIFICATION

## GENERAL

The PAU air cooled single packaged air conditioners shall be completely factory assembled, leak-tested, evacuated and pre charged ready for installation.

## CONDENSER COIL

Coils shall be internally enhanced, seamless copper tubes, mechanically expanded into aluminium fins with full height collars. Coil shall be leak tested at 350 psig from factory. Fan shall be dynamically and statically balanced, direct drive, providing vertical air discharge from extended orifices forefficiency and low noise.

## REFRIGERANT CIRCUIT

The refrigerant circuit shall be factory piped, leak tested and pre-charged 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 1/2 thick, 40 kg/cu.m. Fiber glass 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 3/8inch OD staggered copper tubes mechanically bonded into aluminium fins.

## EVAPORATOR FAN AND MOTOR

A choice of evaporator blower motor is available for field installation to meet any application requirement. Motor is mounted within the insulated cabinet of the unit to minimize the transmission of sound to the surrounding space.

## COMPRESSOR

Unit model 006 to 060 shall have Scroll hermetic compressor(s). All compressors are mounted on vibration isolators.

## 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.

SPECIFICATION MODEL : PAU

MODEL	PAU/PAUJ	PAU-006	PAU-008	PAU-010	PAU-012	PAU-015	PAU-018	PAU-020	PAU-024	PAU-030	PAU-040	PAU-060	
Cooling Capacity	MBH	60.0	75.0	100.0	120.0	150.0	180.0	200.0	240.0	300.0	400.0	600.0	
	KW	17.6	22.0	29.3	35.2	44.0	52.8	58.6	70.3	87.9	117.2	175.8	
Nominal Air Flow	CFM	2,000	2,500	3,400	4,000	5,000	6,000	6,700	8,000	10,000	13,300	16,000	
	L/S	944	1,180	1,604	1,888	2,360	2,831	3,162	3,775	4,719	6,276	7,550	
Power Supply	V/Ph/Hz.	380/3/50											
Compressor													
Type	Scroll - Hermetic												
Quantity	1				2				4				
Nominal HP	6	7	10	12	15	2x9	2x10	2x12	2x15	4x10	4x15		
Condensor Coil													
Type	Aluminium Fins with inner groove Copper tube												
Face Area Inch	Sq.ft	9.67	15.21	17.23	21.90	20.83	38.19	45.14	61.84				
Rows Deep	2	3				4							
Fins Per Inch	12				14				10				
Tube O.D. - Inches	3/8												
Condenser Fan													
x 1													
Dia x Width-Inches	1x24		2x20		2x24		2x30		3x30		4x30		
Motor HP Standard	3/4		2x1/3		2x3/4		2x1		3x1		4x1		
Air Flow	8,000		12,000		16,000		20,000		30,000		40,000		
Evaporator Coil													
Type.	Aluminium Fins with inner groove Copper tube												
Face Area	Sq.ft	4.28	6.61	5.93	10.55	13.54	17.36	20.83	24.31	32.35			
Rows Deep	3	4				3				4		6	
Fins Per Inch	14	12		14		12		14		12		10	
Tube O.D.	Inch	3/8											
Expansion Valves	1				2				4		2		
Evaporator Fan													
Blower ,Dia x Width	Inch	10x10	12x12	15x15	12x12	15x15	18x18	ADH-450					
Quantity	1				2								
Motor Standard	HP.	1	2		3		5		10				
External Static Pressure	Inch-wg.	1										1.5	
Refrigerant	Type Type	R - 22 / R-410a											
Air Filter - Aluminium Washable	1 inch						2 inch						
Dimension													
Widht	mm.	260	1,465	1,720	1,920	2,270	2,900		3,850				
Height	mm.	816	970		1,070		1,370	1,550	1,680	1,900			
Depth	mm.	1,405		1,470	1,505	1,750	2,100						
Weight - Operating - kgs.	160	200	220	250	290	400	420	540	580	720	960		

Option : Power supply 460V / 3Ph / 60Hz.

Actual capacity is performance within +/- 5% variation form Nominal cooling capacity.

Specifications are subjected to change without notice for future improvement.



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