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 charging from the factory.
- Low noise.
- Hermetic compressors for model 006 / 060.
- HP and LP cut-out switches.
- Air filters.
- Electrical panel.





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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.

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.

REFRIGERANT CIRCUIT

The refrigerant circuit shall be factory piped, leak tested and pre-charged Each refrigerant circuit shall consist of a compressor, expension valve and service valve.

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.

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.

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.

PHYSICAL DATA

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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	
	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	0						
Compressor													
Туре			Scroll - Hermetic										
Quantity		1	1	1	1	1	2	2	2	2	4	4	
Nominal HP		6	7	10	12	15	2x9	2x10	2x12	2x15	4x10	4 X 15	
Condensor Coil													
Туре		Aluminium Fins with Inner groove Copper tube											
Face Area Inch	Sq.ft	9.67	15.21	15.21	17.29	21.90	20.83	20.83	38.19	38.19	45.14	61.84	
Rows Deep		2	3	3	3	3	3	3	3	3	4	4	
Fins Per Inch		12	12	12	12	12	12	12	14	14	14	10	
Tube O.D Inches		3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	
Condenser Fan				-	-							-	
Dia x Width-Inches		1x24	1x24	1 x 24	2 x 20	2 x 24	2 x 24	2 x 30	3 x 30	3 x 30	3 x 30	4 X 30	
Motor HP Standard		3/4	3/4	3/4	2 x 1/3	2 x 3/4	2 x 3/4	2 x 1	3 x 1	3 x 1	3 x 1	4 X 1	
Air Flow		8,000	8,000	8,000	12,000	16,000	16,000	20,000	30,000	30,000	30,000	40,000	
Evaporator Coil													
Туре		Aluminium Fins with Inner gr					roove Copper tube						
Face Area	Sq.ft	4.28	6.61	6.61	5.93	10.55	13.54	13.54	17.36	20.83	24.31	32.35	
Rows Deep		3	3	4	4	4	4	4	4	3	4	6	
Fins Per Inch		14	14	12	14	14	12	12	14	14	12	10	
Tube O.D.	Inch	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	
Expansion Valves		1	1	1	1	1	2	2	2	2	4	2	
Evaporator Fan			_	_	_	_	_	_	_	_	_		
Blower ,Dia x Width	Inch	10 x 10	12 x 12	12 x 12	15 x 15	15 x 15	12 x 12	12 x 12	15 x 15	15 x 15	18 x 18	ADH-450	
Quantity		1	1	1	1	1	2	2	2	2	2	2	
Motor Standard	HP	1	1	2	2	2	3	3	5	5	10	10	
External Static Pressur	re Inch-wg.	1	1	1	1	1	1	1	1	1	1	1.5	
Refrigerant	Туре	R - 22 /				R-410a							
Air Filter - Aluminium Wa	1 inch					2 inches							
Dimension													
Widht	mm.	260	1465	1465	1720	1920	2270	2270	2900	2900	2900	3850	
Height	mm.	816	970	970	1070	1070	1370	1370	1550	1680	1900	1900	
Depth	mm.	1405	1405	1405	1470	1505	1750	1750	2100	2100	2100	2100	
Weight - Operating - kgs	3.	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.



Air Conditioning Experts

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