

# PAC4A Series

Dedicated Outside Air System

100% Fresh Air Packaged Air Conditioners



50/60Hz

R-410A  
REFRIGERANT



Range: 6 TR to 40 TR  
(21 kW to 140 kW)



## Contents

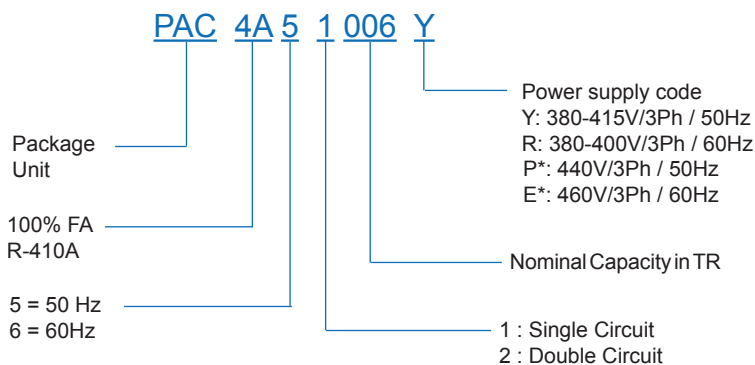
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## Legend

The following legends are used throughout this manual:

AFR .....	Air Flow Rate	L/s.....	Liters per second
BPF.....	By Pass Factor	MBh.....	BTUHx1000
CFM.....	Cubic feet per minute	Pa.....	Pascal
EER.....	Energy Efficiency Ratio	Ph.....	Phase
ESP.....	External Static Pressure	PI .....	Power Input of Compressor in kW
Hz .....	Hertz	RPM .....	Revolutions Per Minute
in. wg.....	Inch water gauge	RPS.....	Rated Power Supply
kW.....	Kilowatts	TR.....	Tons of Refrigeration
kg.....	Kilogram	V.....	Volts
lbs.....	Pounds weight		

## Nomenclature



\*Consult SKM for more details

**i** SKM reserves the right to change, in part or in whole the specifications of its Air Conditioning Equipment at any time in order to add the latest technology. Therefore, the enclosed information may change without any prior notice.

## Introduction

SKM **PAC4A** Series 100% Fresh Air (FA) Packaged Air Conditioners are designed and manufactured to meet the requirements of Gulf's severe climatic conditions and are built specifically for High Energy Efficiency ducted systems which will enable them to be installed easily on rooftop or on ground, treat and supply fresh air to maintain the indoor air quality within the required level.

The **PAC4A** series Packaged Air Conditioners are compact, quiet, most efficient and self contained units are ideal for fresh air applications.

Available in 13 different sizes from 6 to 40 TR (21 to 140 kW) in 50/60 Hz.

As the indoor air pollution is a major problem, affecting human health and productivity. Bringing treated fresh air from outside is absolutely critical to maintain indoor air quality within the acceptable range. SKM **PAC4A** series deliver clean, cooled and dehumidified fresh air to improve the indoor air quality and meet with ASHRAE requirements for fresh air and energy efficiency.

**PAC4A** series units from SKM are completely assembled, leak tested, vacuumed, internally wired and fully charged with R-410A refrigerant at factory. Each unit is fully factory tested before dispatch and is ready for installation. All that is required on the site is to connect ducts, drain lines, main power supply and field wiring to the thermostat. This greatly reduces the installation work and cost.

SKM provides qualified service and stock of replacement parts in all major cities of the G.C.C. countries, Egypt, Jordan, and Pakistan. See back cover for details or call SKM.

SKM Air Conditioning LLC



You name it....We cool it



## General Features

The **PAC4A** Series is a modern, diversified and environment friendly series of packaged air conditioners which use R-410A refrigerant.

The **100% FA** Series are yet another new unique series from SKM incorporates many salient features which, together, provides a heavy duty, robust, long lasting commercial unit meant for high end residential and commercial fresh air applications.

The **PAC4A** series models combine high efficiency condenser and cooling coils, evaporator blower and heavy duty motor in addition to premium safety and operational controls.

The complete **PAC4A** series packaged unit provides an extremely rugged, long life, energy efficient, self contained packaged air conditioner that will provide cooling with higher efficiency over a long and extended life.

**What makes PAC4A series yet another model in the top class range of SKM products is the use of:**

- High efficiency totally sealed scroll hermetic compressors.
- Totally enclosed, Class F insulated, condenser and evaporator fan motors.
- Heavy duty condenser and evaporator coils optimised in design for long-life maintenance free operation.
- Cabinet construction specifically designed for Gulf climates.
- Typically, much heavier gauge tubing and thicker fins for ruggedness and long life.
- High efficiency backward fan with high static capability.
- Electronic control board for the unit operation.
- Inner skin evaporator section with 2 inch fiber glass insulation.
- Moisture eliminator with blades made of PVC, and with shape specially designed to trap water droplets blown off the coil.
- Bag filter with prefilter for higher efficiency filtration.
- Hot gas bypass system on the lead compressor

## Main Component Features

The common standard features of all **PAC4A** series packaged units include the following

### Compressor

Compressors used in **PAC4A** packaged unit series are hermetically sealed, compact scroll with the following features:

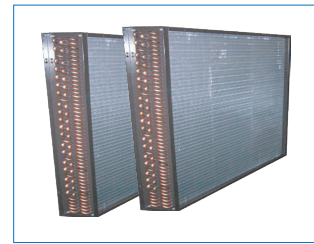
- High Energy Efficiency.
- Quiet operation, Low Sound levels.
- Compact and light.
- Limited wear.
- Unique ability to handle liquid refrigerant.
- Suction gas cooled compressor.
- Brazed fittings or Rotalock options.
- No internal valves.

## Condenser Coil

Condenser coils are manufactured of seamless copper tubes mechanically bonded to aluminum fins to ensure optimum heat transfer. All coils are tested against leakage by air pressure of 715psig (4930kPa) under water. All standard coils are 2,3 or 4 rows With 14FPI (1.8mm) or 16FPI (1.6mm).

An integral sub cooling circuit is provided to increase the cooling capacity, without additional operating cost.

For different application requirements, other optional condenser fin materials are available:



Condenser Coil

- Copper fins.
- Precoated Aluminum fins  
The pre-coated is hydrophobic polyurethane resin. This option provides substantial corrosion protection beyond standard coil construction.
- Aeris Guard Coil Coating  
The Aeris Guard Coil is a dip-coated and self etching high performance modified epoxy finish that is specifically designed to coat and protect Aluminum and Copper surfaces. In addition, the coating is ideal for the protection of ferrous and non ferrous materials.

All models are suitable for Gulf countries, ensuring the condenser coil design shall provide long life operation with the least possibility operational blockage on the condenser. The additional condenser surface and sensible air flow across the condenser ensures a low temperature differential between condensing temperature and the high Gulf ambient making the **PAC4A** packaged unit perform efficiently and durably.

## Condenser Fan

The condenser fans are Propeller type with aluminum alloy blades and are directly driven by electric motors. Motors are Totally Enclosed Air Over (TEAO), six pole with Class F insulation and IP54/55 protection depending on models. Complete fan assembly is provided with fan guard.

## Evaporator Coil

Evaporator coils are designed specially for fresh air application, to handle the high entering air temperature and it is manufactured of seamless copper tubes mechanically bonded to aluminium fins to ensure optimum heat transfer. All evaporator coils are tested against leakage by air pressure of 450psig (3103kPa) under water. The DX evaporator coils are complete with headers of seamless copper tubing. Supply headers incorporate a correctly sized distributor.

For different application requirements, other evaporator coil material and/or treatment are available on request :

- Copper fins.
- Precoated Aluminum fins.

The pre-coated is hydrophobic polyurethane resin. This option provides substantial corrosion protection beyond standard coil construction.

- Aeris Guard Coil Coating.

The Aeris Guard Coil is a dip-coated and self etching high performance modified epoxy finish that is specifically designed to coat and protect Aluminum and Copper surfaces. In addition, the coating is ideal for the protection of ferrous and non ferrous materials.

Evaporator coils are rated in accordance with AHRI-410. Evaporator coil supplied with suitable size expansion valve(s) and multi-circuited distributors providing capacity modulation to match the compressors. The cross wave fins and staggered tubes design uses the evaporator surface effectively by creating uniform air turbulence and optimum heat transfer over the entire finned surface. Moisture eliminators used as standard feature for PAC4A Series.

## Evaporator Fan & Drive

Standard evaporator fan is backward curved centrifugal DIDW, statically and dynamically balanced complete with shaft, self-aligning, lubricated for lifetime bearings.

The fan(s) are driven by a single speed electric motor, Class F insulated, IP55 protected & are totally enclosed 2-pole OR 4-pole motor rated for continuous operation at design conditions.

The motor is fitted with an adjustable V-belt drive, as standard. Shaft ends insert into oversized, tapered lock self-aligning, long-life bearings. Motor is factory wired to the control panel where the motor contactor is located.

## Filter Section

PAC4A series are supplied with 1" thick Aluminium type filters with grade G2 and 15" deep F8 high efficiency bag filters as standard for all models.

## Casing and Structure

The unit casing used in PAC4A 100% FA Packaged units is made of zinc coated galvanized steel sheets conforming to JIS-G 3302 and ASTM A653 which is phosphatized before application of an electrostatic powder coat of approximately 60 microns and then oven-baked for tough and lasting weather resistant finish. This finish and coating can pass a 1000 hour in 5 % salt spray testing at 95°F (35°C) and 95% relative humidity as per ASTM B117.

The evaporator section is double skin and insulated from all the sides with 2" thick fiber glass insulation with extremely tough and durable black composite surface .

The insulation-cum-sound liner meets the fire requirements of NFPA90A & 90B and is secured with mechanical fasteners in addition to water resistant adhesive.

## Control Panel

The PAC4A package air conditioners are provided with control panel enclosure comprising all starting, operation & safety controls. The panel is factory wired in accordance with NEC 430 & 440, labelled, tagged and features 220v / 240v controls.

- Starting contactors for compressors and motors.
- Internal overload protection for compressors.
- Internal or external overload protection for the motors (depending on the model).
- Electronic control board for unit operation.
- Diagnostic LEDs on the control board for easy troubleshooting.
- Compressor short cycling protection.
- Control based on supply air temperature sensor.
- Control circuit for unit on/off switch.
- Control circuit breaker.
- Power and control circuit termination blocks.
- High pressure protection.
- Low pressure protection.
- 24V digital thermostat.
- Duct temperature sensor.

## Hot Gas Bypass

Hot gas bypass supplied on the lead compressor to provide protection against too low evaporator temperature.

## Moisture Droplet Eliminator

PAC4A units provided with moisture eliminator with blades made of PVC, and with shape specially designed to trap water droplets blown off the coil.



## Factory Installed Options

### Flat Filter (FSIP2)

Filter Section with Two-Inch Thick Washable Aluminum Flat Filter Media (EN Class: G3).

**Note:**

PAC4A series can be supplied with other filtration options like G4 filter, 4" pleated filter, various bag filter efficiency, please consult SKM for more details.

### Alternative Condenser Material

Made of copper tubes and alternative fin material and/or protective coating.

- For Aluminum Fins with Aeris Post Coat Protection, specify (FAA).
- For Pre Coated aluminum fins, specify (FAP).
- For Copper Fins, specify (FC).
- For Copper Fins with Aeris Post Coat Protection, specify (FCA).

### Alternative Evaporator Material

Made of copper tubes and alternative fin material and/or protective coating.

- For Aluminum Fins with Aeris post Coat Protection, specify (EFAA).
- For Pre-Coated aluminum fins, specify (EFAP).
- For Copper Fins, specify (EFC).
- For Copper Fins with Aeris Post Coat Protection, specify (EFCA).

### Electric Heating (HTR1)

Electric heating batteries are made up of finned heating elements, constructed from high quality 80/20 nickel chrome resistance wire centered in metal tube by compressed magnesium oxide. Helical fins are tightly wound around the tubular heating element. Heater batteries when ordered comes with stage contactors, primary auto reset thermal safety cut-out, secondary manual reset thermal safety cut-out and air flow switch. Power fuses / circuit breaker are provided for heaters with total ampere exceeding 48 amperes. For smaller heaters, power fuses can be provided if specified. Control of the heaters will be from the unit controller. Following are the optional kW ratings for electric heater. Ratings other than those specified here can be supplied on request. Consult SKM for details.

PAC4A	HEATER (KW)	STAGES
51006 / 61006	6	1
52008 / 62008	9	
52010 / 62010	12	
52011 / 62011	12	2
52013 / 62013	12	
52015 / 62015	15	
52018 / 62018	18	
52020 / 62020	21	
52023 / 62023	21	
52025 / 62025	27	
52030 / 62030	30	
52035 / 62035	36	
52040 / 62040	48	

Table 1

### Western Make Scroll Compressor (WMSC)

For those electrical specification which requires additional short circuit and overload protection for the compressors. Not applicable for models 51006, 61006, 62008 & 62010

### Compressor Run Hour Meter (RHM)

For those electrical specification which requires additional short circuit and overload protection for the compressors.

### Circuit Breaker for compressor (CBC)

For those electrical specification which requires additional short circuit and overload protection for the compressors.

### External Overload Protection (EOP)

For those electrical specification requires additional overload protection for the compressors. (Not required with CBC option)

### Rotalock Valves on compressors (RVC)

For additional facilitation of maintenance of unit.

### Advanced Micro Processor Control System (AMCS)

An advanced microprocessor based controller can be provided for the units as option, in case required. This controller will be with built-in display keypad and has many features. For this feature, additional options can be provided and to be specified during time of order:

- BMSP – BMS Protocol \* (For interfacing the units with major BMS protocols such as BACnet, Modbus or LON. An extra hardware may be required depending on the protocol)

### Pump Down Facility with Solenoid Valve (PDS)

The compressor will switch off each time with a Pump Down Cycle in order to prevent Liquid refrigerant migration to the compressor during off Cycle periods. With this option, each circuit will be provided with an additional discharge check valve (if required) to prevent Refrigerant Migration from High side to Low side when the compressor is off.

### Ball Valve (BLV)

Ball valve can be incorporated in the liquid line.

### Extra Ball Valve (XFV)

Extra ball valve can be incorporated in the liquid line.

### Marine Paint (MP)

To provide increased corrosion resistance for coastal environments and offshore location.

### Sand Trap Louver (ASL)

To be provided at the air intake, to prevent the sand from entering the unit, thus avoiding a damage to the moving parts of the equipment and clogging the filters.

**Pressure Relief Valve (PRV)**

To protect the unit from being over-pressurized.

**Pressure Gauges (SDG1)**

Suction and discharge indication of each refrigerant circuit. Gauges mounted outside the Control Panel.

**Manual Reset Type High Pressure Switch (MHP)**

To replace standard auto reset, capsule type pressure switch.

**Liquid Line Sight Glass (RSG)**

For monitoring refrigerant charge and to provide visual indication of moisture presence in the system.

**Condenser Coil Guard (CGP)**

Wire mesh guard, in painted finish for condensers coils. Recommended on ground level installation where coil needs to be protected against vandalism.

**Stainless Steel Drain Pan (Grade 304) (SDP-304)**

Stainless steel drain pan(Grade 304). Insulation under drain pan as per SKM standard.

**Stainless Steel Drain Pan (Grade 316) (SDP-316)**

Heavy gauge 316 stainless steel drain pan under the entire cooling coil and moisture eliminator. Insulation under drain pan as per SKM standard.

**Up Size Evaporator Motor (USM)\***

Unit with one up size evaporator motor and in some models the fan will be upsized, for more details check the fan performance tables.

**Circuit breaker for Motors\*\* (CBM)\***

For those electrical specification which requires additional short circuit and overload protection for the fan motors.

**Main Isolator (without door interlock) (ISO)**

For main power isolation. (consult SKM)

**BMS interface volt free contacts (BMVF)**

Volt free contacts for run status, common fault status, auto mode status and provision for remote on/off shall be provided as option if required. For additional requirements, please contact SKM.

**Voltage Monitor Module (VMM)**

Provides protection in the event of:

- Phase burn-out.
- Phase reversal.
- Under / over voltage on the incoming line voltage.

**Fire Alarm Interlock (VFC-F)**

To provide provision for fire alarm interlock.

**Voltage Monitoring Module as per DEWA (DVM)**

Under voltage relay as per DEWA regulations. This option is available for Dubai, UAE only.

**Note:**

- Whenever multiple option related to unit control, please consult SKM for drawings as the size of the control panel might change.
- \* USM option covers up to region II (refer page no: 11-16)
- \*\*If CBM combined with USM option please consult SKM as components might be changed

PAC4A can be supplied with heat pipe system (depends on the model and option selected). Heat pipe shall be consisting of two coils, pre-cooling and reheating, connected together without any moving part in between them and containing phase change fluid. It saves energy by reducing temperature of incoming air in the cooling section, and provides supplementary heat in the Reheat section, which enhances the moisture removal of coil. Please consult SKM to check your model if can be supplied with heat pipe.



## GENERAL DATA

### 50Hz

Model		PAC4A	51006	52008	52010	52011	52013	52015	52018
Actual Capacity ( 1 )		MBH	55.0	93.5	108.3	124.5	148.2	189.4	214.8
		kW	16.1	27.4	31.7	36.5	43.4	55.5	63.0
Refrigerant Type		-	R410A						
Compressor	Type	-	HERMETIC SCROLL						
	Quantity	-	1	2	2	2	2	2	2
	Oil Charge	US Gal	0.47	0.33/0.33	0.47/0.47	0.47/0.47	0.47/0.47	0.86/0.86	0.86/0.86
Liter		1.77	1.24/1.24	1.77/1.77	1.77/1.77	1.77/1.77	3.25/3.25	3.25/3.25	
Condenser Coil	Type	-	Hi-X 3/8" Tubes						
	Face Area	ft <sup>2</sup>	13.5	18.0	18.0	21.3	21.3	30	30.0
m <sup>2</sup>		1.3	1.7	1.7	2.0	2.0	2.8	2.8	
Condenser Fan	Type	-	Propeller Direct Drive Fan						
	Code / Quantity	-	450/2	550/2	550/2	630/2	630/2	710/2	710/2
Condenser Motor	Type	-	Class-F insulation, IP-55 Protected						
Evaporator Coil	Type	-	Hi-X 3/8" Tubes						
	Face Area	ft <sup>2</sup>	1.7	2.8	3.3	3.9	4.4	6	6.0
m <sup>2</sup>		0.2	0.3	0.3	0.4	0.4	0.6	0.6	
Evaporator Fan	Type	-	Centrifugal DIDW Belt Drive						
	Size (I / II )	-	225	225	225	225	225/250	225/250	250/280
Evaporator Motor	Type	-	Totally Enclosed Fan Cooled, Class-F insulation, IP55 Protected.						
	Size (I / II / III)	kW	0.75/1.1	1.1/1.5	1.1/1.5	1.5/2.2	1.5/2.2	1.5/2.2	2.2/3/4
Refrigerant Operating Charge Ckt (A / B)		lbs	13.0	8.3/8.3	10.9/10.9	12.3/12.3	15.1/15.1	18.2/18.2	18/18
		kg	5.9	3.7/3.7	5/5	5.6/5.6	6.8/6.8	8.3/8.3	8.2/8.2
Number of Refrigerant Circuits		-	1	2	2	2	2	2	2
Unit Operating Weight		lbs	1351	1573	1692	1957	2024	2511	2550
		kg	613	713	767	888	918	1139	1157

Table 2

Model		PAC4A	52020	52023	52025	52030	52035	52040	
Actual Capacity ( 1 )		MBH	243.3	263.1	293.8	370.2	398.8	465.5	
		kW	71.3	77.1	86.1	108.5	116.9	136.4	
Refrigerant Type		-	R410A						
Compressor	Type	-	HERMETIC SCROLL						
	Quantity	-	2	2	2	2	2	2	
	Oil Charge	US Gal	0.86/0.86	0.86/0.86	0.86/0.86	0.86/1.19	1.19/1.19	1.19/1.19	
Liter		3.25/3.25	3.25/3.25	3.25/3.25	3.25/4.5	4.5/4.5	4.5/4.5		
Condenser Coil	Type	-	Hi-X 3/8" Tubes						
	Face Area	ft <sup>2</sup>	39.0	39.0	39.0	53.3	53.3	64.0	
m <sup>2</sup>		3.6	3.6	3.6	5.0	5.0	5.9		
Condenser Fan	Type	-	Propeller Direct Drive Fan						
	Code / Quantity	-	710/2	710/2	800/2	710/4	710/4	800/4	
Condenser Motor	Type	-	Class-F insulation, IP-55 Protected						
Evaporator Coil	Type	-	Hi-X 3/8" Tubes						
	Face Area	ft <sup>2</sup>	8.0	8.0	9.0	11.6	11.6	13.7	
m <sup>2</sup>		0.7	0.7	0.8	1.1	1.1	1.3		
Evaporator Fan	Type	-	Centrifugal DIDW Belt Drive						
	Size (I / II )	-	280/315	280/315	280/315	315/355	315/355	355/400	
Evaporator Motor	Type	-	Totally Enclosed Fan Cooled, Class-F insulation, IP55 Protected.						
	Size (I / II / III)	kW	2.2/3/4	2.2/3/4	2.2/3/4	3/4/5.5	3/4/5.5	4/5.5	
Refrigerant Operating Charge Ckt (A / B)		lbs	22.8/22.8	27.9/27.9	32.9/32.9	37.6/37.6	45.4/45.4	43.3/43.3	
		kg	10.3/10.3	12.6/12.6	14.9/14.9	17.1/17.1	20.6/20.6	19.7/19.7	
Number of Refrigerant Circuits		-	2	2	2	2	2	2	
Unit Operating Weight		lbs	2855	2933	3201	3748	3978	4175	
		kg	1295	1330	1452	1700	1805	1894	

Table 3

#### Notes:

- (1). Evaporator entering air conditions of 115°F/85°F (46.1°C/29.4°C) dry bulb/wet bulb and condenser entering air temperature of 115°F (46.1°C) dry bulb.
- (2). Capacity for all conditions are gross capacity which does not include the effect of evaporator fan motor heat.
- (3). Evaporator motor size "I" shows standard motor size and "II" & "III" shows the alternate motor size as per ESP

## GENERAL DATA 60Hz

Model	PAC4A	61006	62008	62010	62011	62013	62015	62018	
Actual Capacity ( 1 )	MBH	55.9	96.7	111.4	134.3	143.2	185.9	220.1	
	kW	16.4	28.3	32.6	39.4	42.0	54.5	64.5	
Refrigerant Type	-	R410A							
Compressor	Type	HERMETIC SCROLL							
	Quantity	-	1	2	2	2	2	2	
	Oil Charge	US Gal	0.33	0.33/0.33	0.33/0.33	0.44/0.44	0.47/0.47	0.47/0.47	0.86/0.86
Liter		1.24	1.24/1.24	1.24/1.24	1.66/1.66	1.77/1.77	1.77/1.77	3.25/3.25	
Condenser Coil	Type	Hi-X 3/8" Tubes							
	Face Area	ft <sup>2</sup>	13.5	18.0	18.0	21.3	21.3	30	30.0
		m <sup>2</sup>	1.3	1.7	1.7	2.0	2.0	2.8	2.8
Condenser Fan	Type	Propeller Direct Drive Fan							
	Code / Quantity	-	450/2	550/2	550/2	630/2	630/2	710/2	710/2
Condenser Motor	Type	Class-F insulation, IP-55 Protected							
Evaporator Coil	Type	Hi-X 3/8" Tubes							
	Face Area	ft <sup>2</sup>	1.7	2.8	3.3	3.9	4.4	6	6.0
		m <sup>2</sup>	0.2	0.3	0.3	0.4	0.4	0.6	0.6
Evaporator Fan	Type	Centrifugal DIDW Belt Drive							
	Size (I / II)	-	225	225	225	225	225/250	225/250	250/280
Evaporator Motor	Type	Totally Enclosed Fan Cooled, Class-F insulation, IP55 Protected.							
	Size (I / II / III)	kW	0.75/1.1	1.1/1.5	1.1/1.5	1.5/2.2	1.5/2.2	1.5/2.2	2.2/3/4
Refrigerant Operating Charge Ckt (A / B)	lbs	13.0	8.3/8.3	10.9/10.9	12.3/12.3	15.1/15.1	18.2/18.2	18/18	
	kg	5.9	3.7/3.7	5/5	5.6/5.6	6.8/6.8	8.3/8.3	8.2/8.2	
Number of Refrigerant Circuits	-	1	2	2	2	2	2	2	
Unit Operating Weight	lbs	1317	1573	1624	1952	2024	2414	2550	
	kg	597	713	737	886	918	1095	1157	

Table 4

Model	PAC4A	62020	62023	62025	62030	62035	62040	
Actual Capacity ( 1 )	MBH	253.7	266.1	292.1	369.1	419.3	485.6	
	kW	74.4	78.0	85.6	108.2	122.9	142.3	
Refrigerant Type	-	R410A						
Compressor	Type	HERMETIC SCROLL						
	Quantity	-	2	2	2	2	2	
	Oil Charge	US Gal	0.86/0.86	0.86/0.86	0.86/0.86	0.86/0.86	0.86/1.19	1.19/1.19
Liter		3.25/3.25	3.25/3.25	3.25/3.25	3.25/3.25	3.25/4.5	4.5/4.5	
Condenser Coil	Type	Hi-X 3/8" Tubes						
	Face Area	ft <sup>2</sup>	39.0	39.0	39.0	53.3	53.3	64.0
		m <sup>2</sup>	3.6	3.6	3.6	5.0	5.0	5.9
Condenser Fan	Type	Propeller Direct Drive Fan						
	Code / Quantity	-	710/2	710/2	800/2	710/4	710/4	800/4
Condenser Motor	Type	Class-F insulation, IP-55 Protected						
Evaporator Coil	Type	Hi-X 3/8" Tubes						
	Face Area	ft <sup>2</sup>	8.0	8.0	9.0	11.6	11.6	13.7
		m <sup>2</sup>	0.7	0.7	0.8	1.1	1.1	1.3
Evaporator Fan	Type	Centrifugal DIDW Belt Drive						
	Size (I / II)	-	280/315	280/315	280/315	315/355	315/355	355/400
Evaporator Motor	Type	Totally Enclosed Fan Cooled, Class-F insulation, IP55 Protected.						
	Size (I / II / III)	kW	2.2/3/4	2.2/3/4	2.2/3/4	3/4/5.5	3/4/5.5	4/5.5
Refrigerant Operating Charge Ckt (A / B)	lbs	22.8/22.8	27.9/27.9	32.9/32.9	37.6/37.6	45.4/45.4	43.3/43.3	
	kg	10.3/10.3	12.6/12.6	14.9/14.9	17.1/17.1	20.6/20.6	19.7/19.7	
Number of Refrigerant Circuits	-	2	2	2	2	2	2	
Unit Operating Weight	lbs	2848	2913	3191	3595	3830	4162	
	kg	1292	1321	1448	1631	1737	1888	

Table 5

### Notes:

- (1). Evaporator entering air conditions of 115°F/85°F (46.1°C/29.4°C) dry bulb/wet bulb and condenser entering air temperature of 115°F (46.1°C) dry bulb.
- (2). Capacity for all conditions are gross capacity which does not include the effect of evaporator fan motor heat.
- (3). Evaporator motor size "I" shows standard motor size and "II" & "III" shows the alternate motor size as per ESP









## FAN PERFORMANCE

### 50Hz

Model PAC4A	AIR FLOW		EXTERNAL STATIC PRESSURE-inch wg.(Pa)																			
			0.2 (50)		0.4 (100)		0.6 (150)		0.8 (200)		1 (250)		1.2 (300)		1.4 (350)		1.6 (400)		1.8 (450)		2 (500)	
	CFM	L/S	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW
51006	450	212	<b>2301</b>	<b>0.13</b>	<b>2451</b>	<b>0.14</b>	2600	0.15	2734	0.17	2867	0.19	2988	0.21	3109	0.23	3221	0.26	3333	0.28	3439	0.30
	600	283	<b>2783</b>	<b>0.19</b>	2909	0.21	3034	0.23	3151	0.26	3267	0.28	3376	0.31	3484	0.34	3586	0.37	3688	0.39	3785	0.42
	700	330	<b>3155</b>	<b>0.28</b>	<b>3268</b>	<b>0.3</b>	3381	0.33	3487	0.36	3593	0.39	3693	0.42	3793	0.45	3887	0.48	3982	0.51	<b>4166</b>	<b>0.59</b>
	800	378	<b>3526</b>	<b>0.36</b>	<b>3627</b>	<b>0.39</b>	3727	0.42	3823	0.46	3918	0.49	4010	0.52	<b>4101</b>	<b>0.55</b>	<b>4189</b>	<b>0.59</b>	<b>4276</b>	<b>0.62</b>	-	-

Region "I" shows standard motor size 0.75kw  
Region "II" shows alternate motor size 0.75kw

Table 8

Model PAC4A	AIR FLOW		EXTERNAL STATIC PRESSURE-inch wg.(Pa)																			
			0.2 (50)		0.4 (100)		0.6 (150)		0.8 (200)		1 (250)		1.2 (300)		1.4 (350)		1.6 (400)		1.8 (450)		2 (500)	
	CFM	L/S	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW
52008	700	330	-	-	<b>2075</b>	<b>0.20</b>	<b>2191</b>	<b>0.22</b>	<b>2303</b>	<b>0.26</b>	<b>2411</b>	<b>0.29</b>	<b>2514</b>	<b>0.33</b>	2613	0.36	2710	0.39	2805	0.43	-	-
	800	378	-	-	<b>2239</b>	<b>0.26</b>	<b>2349</b>	<b>0.29</b>	<b>2455</b>	<b>0.32</b>	<b>2558</b>	<b>0.36</b>	2657	0.40	2752	0.43	2844	0.47	2935	0.51	3024	0.55
	1000	472	<b>2493</b>	<b>0.36</b>	<b>2592</b>	<b>0.40</b>	2688	0.44	2781	0.48	2870	0.53	2957	0.57	3042	0.61	3126	0.66	3207	0.71	3286	0.75
	1200	566	2844	0.55	2931	0.59	3015	0.64	3097	0.69	3178	0.74	3256	0.79	3331	0.84	3406	0.89	3480	0.94	3553	0.99
	1400	661	3259	0.83	3335	0.88	3409	0.93	3481	0.98	3553	1.04	3624	1.09	3693	1.15	3760	1.20	3825	1.26	3890	1.32
	1500	708	<b>3459</b>	<b>0.99</b>	<b>3530</b>	<b>1.05</b>	3600	1.11	3669	1.16	3737	1.22	3803	1.28	-	-	-	-	-	-	-	-

Region "I" shows standard motor size 1.1kw  
Region "II" shows alternate motor size 1.5kw

Table 9

Model PAC4A	AIR FLOW		EXTERNAL STATIC PRESSURE-inch wg.(Pa)																			
			0.2 (50)		0.4 (100)		0.6 (150)		0.8 (200)		1 (250)		1.2 (300)		1.4 (350)		1.6 (400)		1.8 (450)		2 (500)	
	CFM	L/S	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW
52010	850	401	-	-	<b>2184</b>	<b>0.24</b>	<b>2294</b>	<b>0.27</b>	<b>2404</b>	<b>0.30</b>	<b>2507</b>	<b>0.34</b>	2609	0.38	2704	0.42	2799	0.45	2890	0.49	2980	0.53
	1000	472	<b>2339</b>	<b>0.31</b>	<b>2442</b>	<b>0.35</b>	<b>2544</b>	<b>0.38</b>	2640	0.42	2736	0.46	2825	0.51	2914	0.55	3000	0.59	3085	0.63	3166	0.68
	1200	566	2662	0.46	2755	0.50	2844	0.55	2931	0.59	3015	0.64	3097	0.69	3178	0.74	3256	0.79	3331	0.84	3406	0.89
	1400	661	2978	0.65	3061	0.70	3141	0.75	3221	0.80	3297	0.85	3373	0.90	3445	0.96	3517	1.01	3588	1.07	3659	1.12
	1600	755	<b>3364</b>	<b>0.94</b>	<b>3437</b>	<b>1.00</b>	3509	1.05	3580	1.11	3649	1.17	3716	1.23	3782	1.29	-	-	-	-	-	-

Region "I" shows standard motor size 1.1kw  
Region "II" shows alternate motor size 1.5kw

Table 10

Model PAC4A	AIR FLOW		EXTERNAL STATIC PRESSURE-inch wg.(Pa)																			
			0.2 (50)		0.4 (100)		0.6 (150)		0.8 (200)		1 (250)		1.2 (300)		1.4 (350)		1.6 (400)		1.8 (450)		2 (500)	
	CFM	L/S	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW
52011	1000	472	<b>2228</b>	<b>0.27</b>	<b>2339</b>	<b>0.31</b>	<b>2442</b>	<b>0.35</b>	<b>2544</b>	<b>0.38</b>	<b>2640</b>	<b>0.42</b>	<b>2736</b>	<b>0.46</b>	2825	0.51	2914	0.55	3000	0.59	3085	0.63
	1200	566	<b>2519</b>	<b>0.39</b>	<b>2615</b>	<b>0.44</b>	<b>2710</b>	<b>0.48</b>	2800	0.53	2889	0.57	2973	0.62	3057	0.66	3138	0.71	3218	0.76	3294	0.81
	1400	661	2851	0.58	2937	0.63	3020	0.68	3101	0.73	3181	0.78	3259	0.83	3335	0.88	3409	0.93	3481	0.98	3553	1.04
	1600	755	<b>3173</b>	<b>0.80</b>	<b>3252</b>	<b>0.85</b>	<b>3327</b>	<b>0.91</b>	<b>3401</b>	<b>0.97</b>	<b>3473</b>	<b>1.03</b>	<b>3545</b>	<b>1.08</b>	<b>3614</b>	<b>1.14</b>	<b>3683</b>	<b>1.20</b>	<b>3749</b>	<b>1.26</b>	<b>3815</b>	<b>1.32</b>
	1800	850	<b>3489</b>	<b>1.06</b>	<b>3559</b>	<b>1.13</b>	<b>3628</b>	<b>1.19</b>	<b>3697</b>	<b>1.26</b>	<b>3763</b>	<b>1.32</b>	<b>3828</b>	<b>1.38</b>	<b>3892</b>	<b>1.44</b>	<b>3957</b>	<b>1.51</b>	<b>4020</b>	<b>1.57</b>	<b>4081</b>	<b>1.64</b>
	2000	944	<b>3831</b>	<b>1.42</b>	<b>3896</b>	<b>1.49</b>	<b>3959</b>	<b>1.56</b>	<b>4021</b>	<b>1.63</b>	<b>4083</b>	<b>1.70</b>	<b>4144</b>	<b>1.77</b>	4203	1.84	-	-	-	-	-	-

Region "I" shows standard motor size 1.5kw  
Region "II" shows alternate motor size 2.2kw

Table 11

#### Notes:

- (1). For data specified in BOLD, kindly consult for drive set selection.
- (2). Internal static pressure is based on pressure drops through the evaporator coil, fan casing, droplet eliminator, 1" flat filter G2 and F8 15" bag filter.
- (3). USM option for region III, please consult SKM.

## FAN PERFORMANCE

Model PAC4A	AIR FLOW		EXTERNAL STATIC PRESSURE-inch wg.(Pa)																			
			0.2 (50)		0.4 (100)		0.6 (150)		0.8 (200)		1 (250)		1.2 (300)		1.4 (350)		1.6 (400)		1.8 (450)		2 (500)	
	CFM	L/S	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW
52013	1200	566	<b>2417</b>	0.35	2519	0.39	2615	0.44	2710	0.48	2800	0.53	2889	0.57	2973	0.62	3057	0.66	3138	0.71	3218	0.76
	1400	661	2718	0.50	2807	0.55	2895	0.60	2978	0.65	3061	0.70	3141	0.75	3221	0.80	3297	0.85	3373	0.90	3445	0.96
	1600	755	3053	0.71	3134	0.77	3213	0.82	3289	0.88	3364	0.94	3437	1.00	3509	1.05	<b>3580</b>	<b>1.11</b>	<b>3649</b>	<b>1.17</b>	<b>3716</b>	<b>1.23</b>
	1800	850	<b>2665</b>	<b>0.81</b>	<b>2739</b>	<b>0.88</b>	2811	0.94	2881	1.01	2950	1.07	3017	1.14	3083	1.20	3148	1.27	3211	1.34	3272	1.41
	2000	944	2913	1.07	2980	1.14	3046	1.21	3110	1.28	3174	1.35	3236	1.42	3298	1.49	3358	1.57	3417	1.64	3476	1.72
	2200	1038	3185	1.40	3247	1.48	3308	1.55	3367	1.63	3425	1.70	3483	1.78	3541	1.86	3597	1.94	3652	2.02	3706	2.10
	2400	1133	3447	1.77	3505	1.86	3562	1.94	3617	1.90	3671	1.86	3662	1.99	3652	2.11	3768	2.10	3883	2.45	3934	2.27

Table 12

Region "I" shows standard motor size 1.5kw

Region "II" shows alternate motor size 2.2kw

Region "III" shows alternate motor size 3.0kw

Model PAC4A	AIR FLOW		EXTERNAL STATIC PRESSURE-inch wg.(Pa)																			
			0.2 (50)		0.4 (100)		0.6 (150)		0.8 (200)		1 (250)		1.2 (300)		1.4 (350)		1.6 (400)		1.8 (450)		2 (500)	
	CFM	L/S	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW
52015	1500	708	<b>2732</b>	0.52	<b>2825</b>	0.57	<b>2910</b>	0.62	<b>2995</b>	0.67	3076	0.72	3157	0.78	3234	0.83	3311	0.89	3385	0.94	3459	0.99
	1600	755	2841	0.58	2931	0.63	3013	0.69	3094	0.74	3173	0.80	3252	0.85	3327	0.91	3401	0.97	3473	1.03	3545	1.08
	1800	850	3150	0.79	3229	0.85	3308	0.91	3381	0.97	3454	1.03	3524	1.10	3594	1.16	3663	1.23	3731	1.29	-	-
	2000	944	<b>2664</b>	<b>0.83</b>	<b>2737</b>	<b>0.90</b>	2808	0.97	2878	1.04	2946	1.11	3013	1.18	3078	1.25	3142	1.32	3205	1.39	3267	1.46
	2200	1038	2891	1.05	2959	1.13	3025	1.20	3090	1.28	3153	1.36	3216	1.44	3277	1.51	3337	1.59	3396	1.66	3454	1.74
	2400	1133	3114	1.32	3178	1.40	3240	1.48	3301	1.57	3360	1.65	3418	1.73	3476	1.81	3533	1.90	3589	1.92	3644	1.88
	2600	1227	3336	1.63	3396	1.72	3455	1.81	3513	1.90	3569	1.99	3624	2.08	3678	2.17	3732	2.23	3785	2.26	-	-
2800	1321	3581	2.01	3638	2.10	3693	2.20	3747	2.30	3798	2.40	3849	2.49	3901	2.59	3952	2.68	-	-	-	-	

Table 13

Region "I" shows standard motor size 1.5kw

Region "II" shows alternate motor size 2.2kw

Region "III" shows alternate motor size 3.0kw

Model PAC4A	AIR FLOW		EXTERNAL STATIC PRESSURE-inch wg.(Pa)																			
			0.2 (50)		0.4 (100)		0.6 (150)		0.8 (200)		1 (250)		1.2 (300)		1.4 (350)		1.6 (400)		1.8 (450)		2 (500)	
	CFM	L/S	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW
52018	1600	755	<b>2239</b>	0.49	<b>2327</b>	0.54	<b>2410</b>	0.60	<b>2492</b>	0.66	<b>2570</b>	0.72	<b>2647</b>	0.77	<b>2722</b>	0.83	2796	0.89	2866	0.95	2935	1.01
	1800	850	2473	0.66	2551	0.72	2628	0.78	2702	0.85	2776	0.91	2846	0.98	2916	1.04	2983	1.11	3050	1.17	3115	1.24
	2000	944	<b>2664</b>	0.83	<b>2737</b>	0.90	<b>2808</b>	0.97	2878	1.04	2946	1.11	3013	1.18	3078	1.25	3142	1.32	3205	1.39	3267	1.46
	2200	1038	2891	1.05	2959	1.13	3025	1.20	3090	1.28	3153	1.36	3216	1.44	3277	1.51	3337	1.59	3396	1.66	3454	1.74
	2400	1133	3114	1.32	3178	1.40	3240	1.48	3301	1.57	3360	1.65	3418	1.73	3476	1.81	<b>3533</b>	<b>1.90</b>	<b>3589</b>	<b>1.92</b>	<b>3644</b>	<b>1.88</b>
	2600	1227	<b>2483</b>	1.10	<b>2542</b>	1.18	<b>2600</b>	1.26	<b>2657</b>	1.34	<b>2712</b>	1.42	2765	1.50	2817	1.58	2869	1.66	2920	1.74	2970	1.82
	2800	1321	<b>2663</b>	1.37	<b>2719</b>	1.45	2773	1.54	2827	1.62	2878	1.71	2929	1.79	2979	1.88	3028	1.96	3076	2.05	3123	2.13
	3000	1416	2812	1.62	2865	1.71	2918	1.80	2968	1.89	3018	1.98	3065	2.07	3113	2.16	3159	2.24	3205	2.33	3249	2.42
	3200	1510	2986	1.95	3036	2.04	3085	2.14	3132	2.23	3178	2.33	3223	2.42	3267	2.50	3311	2.59	3353	2.69	3396	2.79
	3400	1605	3156	2.31	3203	2.41	3247	2.52	3291	2.62	3334	2.70	3376	2.78	3417	2.88	3458	2.99	3498	3.09	3538	3.20
	3600	1699	3321	2.72	3363	2.83	3404	2.92	3444	2.99	3484	3.09	3523	3.20	3562	3.31	3600	3.42	3619	3.48	-	-

Table 14

Region "I" shows standard motor size 2.2kw

Region "II" shows alternate motor size 3.0kw

Region "III" shows alternate motor size 4.0kw

### Notes:

- (1). For data specified in BOLD, kindly consult for drive set selection.
- (2). Internal static pressure is based on pressure drops through the evaporator coil, fan casing, droplet eliminator, 1" flat filter G2 and F8 15" bag filter.
- (3). USM option for region III, please consult SKM.







## FAN PERFORMANCE

Model PAC4A	AIR FLOW		EXTERNAL STATIC PRESSURE (inch wg.)																			
			0.2 (50)		0.4 (100)		0.6 (150)		0.8 (200)		1 (250)		1.2 (300)		1.4 (350)		1.6 (400)		1.8 (450)		2 (500)	
	CFM	L/S	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW
52040	3800	1793	<b>1593</b>	<b>0.96</b>	<b>1652</b>	<b>1.06</b>	<b>1706</b>	<b>1.17</b>	<b>1760</b>	<b>1.28</b>	<b>1811</b>	<b>1.39</b>	1862	1.49	1911	1.60	1959	1.71	2006	1.83	2053	1.94
	4000	1888	<b>1669</b>	<b>1.11</b>	<b>1725</b>	<b>1.22</b>	<b>1778</b>	<b>1.33</b>	<b>1829</b>	<b>1.44</b>	1879	1.55	1928	1.66	1975	1.78	2021	1.89	2067	2.01	2112	2.13
	4200	1982	<b>1716</b>	<b>1.20</b>	<b>1770</b>	<b>1.32</b>	<b>1823</b>	<b>1.43</b>	1873	1.55	1922	1.66	1969	1.78	2015	1.90	2060	2.02	2105	2.14	2149	2.26
	4400	2077	<b>1792</b>	<b>1.37</b>	<b>1843</b>	<b>1.49</b>	1895	1.61	1942	1.73	1990	1.85	2035	1.98	2081	2.10	2124	2.23	2167	2.35	2209	2.48
	4600	2171	1864	1.54	1915	1.67	1964	1.79	2011	1.92	2056	2.05	2101	2.18	2144	2.31	2186	2.44	2228	2.57	2269	2.70
	4800	2265	1912	1.67	1962	1.80	2010	1.93	2056	2.06	2101	2.19	2145	2.33	2188	2.46	2229	2.60	2270	2.73	2310	2.87
	5000	2360	1985	1.87	2034	2.00	2080	2.14	2125	2.27	2168	2.41	2211	2.55	2252	2.69	2293	2.83	2332	2.97	2371	3.11
	5200	2454	2058	2.08	2104	2.22	2149	2.36	2193	2.50	2235	2.64	2277	2.79	2317	2.93	2357	3.08	<b>2395</b>	<b>3.22</b>	<b>2433</b>	<b>3.37</b>
	5400	2549	<b>1606</b>	<b>1.81</b>	<b>1651</b>	<b>1.95</b>	1695	2.10	1738	2.25	1779	2.40	1819	2.56	1858	2.71	1897	2.87	1935	3.03	1973	3.19
	5600	2643	<b>1660</b>	<b>1.99</b>	1703	2.14	1746	2.29	1787	2.45	1827	2.61	1866	2.77	1904	2.92	1942	3.09	1979	3.25	2016	3.42
	5800	2737	1712	2.19	1755	2.35	1796	2.51	1836	2.67	1875	2.83	1913	2.99	1951	3.15	1988	3.32	2024	3.49	2060	3.66
	6000	2832	1764	2.40	1806	2.56	1846	2.72	1885	2.88	1923	3.05	1961	3.22	1997	3.39	2033	3.56	2068	3.73	2103	3.90
	6200	2926	1815	2.62	1856	2.78	1895	2.95	1934	3.12	1971	3.29	2007	3.47	2043	3.64	2078	3.81	<b>2113</b>	<b>3.99</b>	<b>2147</b>	<b>4.17</b>
	6400	3020	1867	2.84	1906	3.02	1945	3.19	1982	3.37	2018	3.54	2054	3.72	2089	3.89	<b>2123</b>	<b>4.07</b>	<b>2157</b>	<b>4.25</b>	<b>2190</b>	<b>4.44</b>
	6600	3115	1917	3.09	1956	3.26	1993	3.44	2030	3.62	2066	3.80	2101	3.98	<b>2135</b>	<b>4.16</b>	<b>2168</b>	<b>4.35</b>	<b>2201</b>	<b>4.54</b>	<b>II</b>	-
6800	3209	1967	3.34	2005	3.51	2042	3.70	2078	3.88	<b>2113</b>	<b>4.07</b>	<b>2147</b>	<b>4.25</b>	<b>2180</b>	<b>4.44</b>	<b>2213</b>	<b>4.63</b>	-	-	<b>II</b>	-	

Region "I" shows alternate motor size 4.0kw

Table 20

Region "II" shows alternate motor size 5.5kw

### Notes:

- (1). For data specified in BOLD, kindly consult for drive set selection.
- (2). Internal static pressure is based on pressure drops through the evaporator coil, fan casing, droplet eliminator, 1" flat filter G2 and F8 15" bag filter.
- (3). USM option for region III, please consult SKM.

**FAN PERFORMANCE**  
**60Hz**

Model PAC4A	AIR FLOW		EXTERNAL STATIC PRESSURE-inch wg.(Pa)																			
			0.2 (50)		0.4 (100)		0.6 (150)		0.8 (200)		1 (250)		1.2 (300)		1.4 (350)		1.6 (400)		1.8 (450)		2 (500)	
	CFM	L/S	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW
61006	450	212	<b>2301</b>	<b>0.13</b>	<b>2451</b>	<b>0.14</b>	2600	0.15	2734	0.17	2867	0.19	2988	0.21	3109	0.23	3221	0.26	3333	0.28	3439	0.30
	600	283	2783	0.19	2909	0.21	3034	0.23	3151	0.26	3267	0.28	3376	0.31	3484	0.34	3586	0.37	3688	0.39	3785	0.42
	700	330	3154	0.28	3268	0.30	3381	0.325	3487	0.355	3593	0.385	3693	0.415	3793	0.445	3887	0.475	3982	0.505	4166	0.588
	800	378	3526	0.36	3627	0.39	3727	0.42	3823	0.46	3918	0.49	4010	0.52	4101	0.55	4189	0.59	4276	0.62	-	-

Region "I" shows standard motor size 0.75kw  
Region "II" shows alternate motor size 0.75kw

Table 21

Model PAC4A	AIR FLOW		EXTERNAL STATIC PRESSURE-inch wg.(Pa)																			
			0.2 (50)		0.4 (100)		0.6 (150)		0.8 (200)		1 (250)		1.2 (300)		1.4 (350)		1.6 (400)		1.8 (450)		2 (500)	
	CFM	L/S	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW
62008	700	330	-	-	<b>2075</b>	<b>0.20</b>	<b>2191</b>	<b>0.22</b>	<b>2303</b>	<b>0.26</b>	<b>2411</b>	<b>0.29</b>	<b>2514</b>	<b>0.33</b>	2613	0.359	2710	0.393	2805	0.428	-	-
	800	378	-	-	<b>2239</b>	<b>0.26</b>	<b>2349</b>	<b>0.29</b>	<b>2455</b>	<b>0.32</b>	<b>2558</b>	<b>0.36</b>	2657	0.40	2752	0.433	2844	0.47	2935	0.51	3024	0.553
	1000	472	<b>2493</b>	<b>0.36</b>	<b>2592</b>	<b>0.40</b>	2688	0.44	2781	0.48	2870	0.53	2957	0.57	3042	0.61	3126	0.66	3207	0.71	3286	0.75
	1200	566	2844	0.55	2931	0.59	3015	0.64	3097	0.69	3178	0.74	3256	0.79	3331	0.84	3406	0.89	3480	0.94	3553	0.99
	1400	661	3259	0.83	3335	0.88	3409	0.93	3481	0.98	3553	1.04	3624	1.09	3693	1.15	3760	1.20	3825	1.26	3890	1.32
	1500	708	3459	0.99	3530	1.05	3600	1.11	3669	1.16	3737	1.22	3803	1.28	-	-	-	-	-	-	-	-

Region "I" shows standard motor size 1.1kw  
Region "II" shows alternate motor size 1.5kw

Table 22

Model PAC4A	AIR FLOW		EXTERNAL STATIC PRESSURE-inch wg.(Pa)																			
			0.2 (50)		0.4 (100)		0.6 (150)		0.8 (200)		1 (250)		1.2 (300)		1.4 (350)		1.6 (400)		1.8 (450)		2 (500)	
	CFM	L/S	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW
62010	850	401	-	-	<b>2184</b>	<b>0.24</b>	<b>2294</b>	<b>0.27</b>	<b>2404</b>	<b>0.30</b>	<b>2507</b>	<b>0.34</b>	2609	0.38	2704	0.42	2799	0.45	2890	0.49	2980	0.53
	1000	472	<b>2339</b>	<b>0.31</b>	<b>2442</b>	<b>0.35</b>	<b>2544</b>	<b>0.38</b>	2640	0.42	2736	0.46	2825	0.51	2914	0.55	3000	0.59	3085	0.63	<b>3166</b>	<b>0.68</b>
	1200	566	2662	0.46	2755	0.50	2844	0.55	2931	0.59	3015	0.64	3097	0.69	3178	0.74	3256	0.79	3331	0.84	3406	0.89
	1400	661	2978	0.65	3061	0.70	3141	0.75	3221	0.80	3297	0.85	3373	0.90	3445	0.96	3517	1.01	3588	1.07	<b>3659</b>	<b>1.12</b>
	1600	755	3364	0.94	3437	1.00	3509	1.05	3580	1.11	3649	1.17	3716	1.23	3782	1.29	-	-	-	-	-	-

Region "I" shows standard motor size 1.1kw  
Region "II" shows alternate motor size 1.5kw

Table 23

Model PAC4A	AIR FLOW		EXTERNAL STATIC PRESSURE-inch wg.(Pa)																			
			0.2 (50)		0.4 (100)		0.6 (150)		0.8 (200)		1 (250)		1.2 (300)		1.4 (350)		1.6 (400)		1.8 (450)		2 (500)	
	CFM	L/S	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW
62011	1000	472	<b>2228</b>	<b>0.27</b>	<b>2339</b>	<b>0.31</b>	<b>2442</b>	<b>0.35</b>	<b>2544</b>	<b>0.38</b>	2640	0.42	2736	0.46	2825	0.51	2914	0.55	3000	0.59	3085	0.63
	1200	566	<b>2519</b>	<b>0.39</b>	2615	0.44	2710	0.48	2800	0.53	2889	0.57	2973	0.62	3057	0.66	3138	0.71	3218	0.76	3294	0.81
	1400	661	2851	0.58	2937	0.63	3020	0.68	3101	0.73	3181	0.78	3259	0.83	3335	0.88	3409	0.93	<b>3481</b>	<b>0.98</b>	<b>3553</b>	<b>1.04</b>
	1600	755	3173	0.80	3252	0.85	3327	0.91	3401	0.97	<b>3473</b>	<b>1.03</b>	<b>3545</b>	<b>1.08</b>	3614	1.14	3683	1.20	3749	1.26	3815	1.32
	1800	850	3489	1.06	3559	1.13	3628	1.19	3697	1.26	3763	1.32	3828	1.38	3892	1.44	3957	1.51	4020	1.57	4081	1.64
	2000	944	3831	1.42	3896	1.49	3959	1.56	4021	1.63	4083	1.70	4144	1.77	<b>4203</b>	<b>1.84</b>	-	-	-	-	-	-

Region "I" shows standard motor size 1.5kw  
Region "II" shows alternate motor size 2.2kw

Table 24

**Notes:**

- (1). For data specified in BOLD, kindly consult for drive set selection.
- (2). Internal static pressure is based on pressure drops through the evaporator coil, fan casing, droplet eliminator, 1" flat filter G2 and F8 15" bag filter.
- (3). USM option for region III, please consult SKM.





## FAN PERFORMANCE

Model PAC4A	AIR FLOW		EXTERNAL STATIC PRESSURE-inch wg.(Pa)																			
			0.2 (50)		0.4 (100)		0.6 (150)		0.8 (200)		1 (250)		1.2 (300)		1.4 (350)		1.6 (400)		1.8 (450)		2 (500)	
	CFM	L/S	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW
62013	1200	566	<b>2417</b>	<b>0.35</b>	<b>2519</b>	<b>0.39</b>	<b>2615</b>	<b>0.44</b>	<b>2710</b>	<b>0.48</b>	<b>2800</b>	<b>0.53</b>	<b>2889</b>	<b>0.57</b>	2973	0.62	3057	0.66	3138	0.71	3218	0.76
	1400	661	<b>2718</b>	<b>0.50</b>	<b>2807</b>	<b>0.55</b>	<b>2895</b>	<b>0.60</b>	2978	0.65	3061	0.70	3141	0.75	3221	0.80	3297	0.85	3373	0.90	3445	0.96
	1600	755	<b>3053</b>	<b>0.71</b>	3134	0.77	3213	0.82	3289	0.88	3364	0.94	3437	1.00	3509	1.05	3580	1.11	3649	1.17	3716	1.23
	1800	850	2665	0.81	2739	0.88	2811	0.94	2881	1.01	2950	1.07	3017	1.14	3083	1.20	3148	1.27	3211	1.34	3272	1.41
	2000	944	2913	1.07	2980	1.14	3046	1.21	3110	1.28	3174	1.35	3236	1.42	3298	1.49	3358	1.57	<b>3417</b>	<b>1.64</b>	3476	1.72
	2200	1038	3185	1.40	3247	1.48	3308	1.55	3367	1.63	3425	1.70	3483	1.78	3541	1.86	3597	1.94	3652	2.02	3706	2.10
	2400	1133	3447	1.77	3505	1.86	3562	1.94	3617	1.90	3671	1.86	3662	1.99	3652	2.11	3768	2.10	3883	2.45	3934	2.27

Region "I" shows standard motor size 1.5kw  
Region "II" shows alternate motor size 2.2kw  
Region "III" shows alternate motor size 3.0kw

Table 25

Model PAC4A	AIR FLOW		EXTERNAL STATIC PRESSURE-inch wg.(Pa)																			
			0.2 (50)		0.4 (100)		0.6 (150)		0.8 (200)		1 (250)		1.2 (300)		1.4 (350)		1.6 (400)		1.8 (450)		2 (500)	
	CFM	L/S	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW
62015	1500	708	<b>2732</b>	<b>0.52</b>	<b>2825</b>	<b>0.57</b>	<b>2910</b>	<b>0.62</b>	<b>2995</b>	<b>0.67</b>	3076	0.72	3157	0.78	3234	0.83	3311	0.89	3385	0.94	3459	0.99
	1600	755	<b>2841</b>	<b>0.58</b>	<b>2931</b>	<b>0.63</b>	3013	0.69	3094	0.74	3173	0.80	3252	0.85	3327	0.91	3401	0.97	3473	1.03	3545	1.08
	1800	850	3150	0.79	3229	0.85	3308	0.91	3381	0.97	3454	1.03	3524	1.10	3594	1.16	3663	1.23	3731	1.29	-	-
	2000	944	2664	0.83	2737	0.90	2808	0.97	2878	1.04	2946	1.11	3013	1.18	3078	1.25	3142	1.32	3205	1.39	3267	1.46
	2200	1038	2891	1.05	2959	1.13	3025	1.20	3090	1.28	3153	1.36	3216	1.44	3277	1.51	3337	1.59	3396	1.66	3454	1.74
	2400	1133	3114	1.32	3178	1.40	3240	1.48	3301	1.57	3360	1.65	3418	1.73	3476	1.81	3533	1.90	3589	1.92	3644	1.88
	2600	1227	3336	1.63	3396	1.72	3455	1.81	3513	1.90	3569	1.99	3624	2.08	3678	2.17	3732	2.23	3785	2.26	III	-
	2800	1321	3581	2.01	3638	2.10	3693	2.20	3747	2.30	3798	2.40	3849	2.49	3901	2.59	3952	2.68	-	-	-	-

Region "I" shows standard motor size 1.5kw  
Region "II" shows alternate motor size 2.2kw  
Region "III" shows alternate motor size 3.0kw

Table 26

Model PAC4A	AIR FLOW		EXTERNAL STATIC PRESSURE-inch wg.(Pa)																			
			0.2 (50)		0.4 (100)		0.6 (150)		0.8 (200)		1 (250)		1.2 (300)		1.4 (350)		1.6 (400)		1.8 (450)		2 (500)	
	CFM	L/S	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW
62018	1600	755	<b>2239</b>	<b>0.49</b>	<b>2327</b>	<b>0.54</b>	<b>2410</b>	<b>0.60</b>	<b>2492</b>	<b>0.66</b>	<b>2570</b>	<b>0.72</b>	<b>2647</b>	<b>0.77</b>	2722	0.83	2796	0.89	2866	0.95	2935	1.01
	1800	850	<b>2473</b>	<b>0.66</b>	<b>2551</b>	<b>0.72</b>	<b>2628</b>	<b>0.78</b>	<b>2702</b>	<b>0.85</b>	2776	0.91	2846	0.98	2916	1.04	2983	1.11	3050	1.17	3115	1.24
	2000	944	<b>2664</b>	<b>0.83</b>	2737	0.90	2808	0.97	2878	1.04	2946	1.11	3013	1.18	3078	1.25	3142	1.32	3205	1.39	3267	1.46
	2200	1038	2891	1.05	2959	1.13	3025	1.20	3090	1.28	3153	1.36	3216	1.44	3277	1.51	3337	1.59	3396	1.66	<b>3454</b>	<b>1.74</b>
	2400	1133	3114	1.32	3178	1.40	3240	1.48	3301	1.57	3360	1.65	<b>3418</b>	<b>1.73</b>	<b>3476</b>	<b>1.81</b>	<b>3533</b>	<b>1.90</b>	<b>3589</b>	<b>1.92</b>	<b>3644</b>	<b>1.88</b>
	2600	1227	<b>2483</b>	<b>1.10</b>	<b>2542</b>	<b>1.18</b>	<b>2600</b>	<b>1.26</b>	2657	1.34	2712	1.42	2765	1.50	2817	1.58	2869	1.66	2920	1.74	2970	1.82
	2800	1321	2663	1.37	2719	1.45	2773	1.54	2827	1.62	2878	1.71	2929	1.79	2979	1.88	3028	1.96	3076	2.05	3123	2.13
	3000	1416	2812	1.62	2865	1.71	2918	1.80	2968	1.89	3018	1.98	3065	2.07	3113	2.16	3159	2.24	3205	2.33	3249	2.42
	3200	1510	2986	1.95	3036	2.04	3085	2.14	3132	2.23	3178	2.33	3223	2.42	3267	2.50	3311	2.59	3353	2.69	3396	2.79
	3400	1605	3156	2.31	3203	2.41	3247	2.52	3291	2.62	3334	2.70	3376	2.78	3417	2.88	3458	2.99	3498	3.09	3538	3.20
	3600	1699	3321	2.72	3363	2.83	3404	2.92	3444	2.99	3484	3.09	3523	3.20	3562	3.31	3600	3.42	3619	3.48	III	3.48

Region "I" shows standard motor size 2.2kw  
Region "II" shows alternate motor size 3.0kw  
Region "III" shows alternate motor size 4.0kw

Table 27

### Notes:

- (1). For data specified in BOLD, kindly consult for drive set selection.
- (2). Internal static pressure is based on pressure drops through the evaporator coil, fan casing, droplet eliminator, 1" flat filter G2 and F8 15" bag filter.
- (3). USM option for region III, please consult SKM.





## FAN PERFORMANCE

Model PAC4A	AIR FLOW		EXTERNAL STATIC PRESSURE-inch wg.(Pa)																			
			0.2 (50)		0.4 (100)		0.6 (150)		0.8 (200)		1 (250)		1.2 (300)		1.4 (350)		1.6 (400)		1.8 (450)		2 (500)	
	CFM	L/S	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW
62030	3000	1416	<b>1753</b>	<b>0.71</b>	<b>1820</b>	<b>0.80</b>	<b>1884</b>	<b>0.88</b>	<b>1945</b>	<b>0.97</b>	<b>2004</b>	<b>1.05</b>	2061	1.14	2117	1.22	2172	1.31	2226	1.40	2279	1.49
	3200	1510	<b>1853</b>	<b>0.85</b>	<b>1918</b>	<b>0.93</b>	<b>1978</b>	<b>1.02</b>	<b>2037</b>	<b>1.11</b>	2093	1.20	2148	1.29	2201	1.38	2254	1.47	2305	1.57	2356	1.66
	3400	1605	<b>1954</b>	<b>1.00</b>	<b>2015</b>	<b>1.09</b>	2073	1.19	2130	1.28	2184	1.38	2237	1.47	2289	1.57	2340	1.66	2389	1.76	2439	1.86
	3600	1699	<b>2023</b>	<b>1.12</b>	2082	1.21	2139	1.31	2195	1.41	2248	1.51	2300	1.61	2350	1.71	2400	1.81	2448	1.91	2496	2.02
	3800	1793	2121	<b>I</b> 1.28	2177	1.38	2234	1.49	2286	1.59	2338	1.69	2387	1.80	2436	1.91	2484	2.01	2531	2.12	2576	2.23
	4000	1888	2217	<b>I</b> 1.45	2272	1.56	2325	1.66	2376	1.77	2425	1.88	2473	1.99	2520	2.11	2566	2.22	2611	2.33	<b>2655</b>	<b>2.44</b>
	4200	1982	2313	1.64	2366	1.75	2416	1.85	2466	1.96	2513	2.08	2559	2.21	2604	2.32	<b>2649</b>	<b>2.43</b>	<b>2691</b>	<b>2.55</b>	-	-
	4400	2077	<b>1869</b>	<b>1.55</b>	<b>1918</b>	<b>1.67</b>	1966	1.79	2013	1.91	2058	2.04	2102	2.16	2145	2.29	2188	2.41	2230	2.54	2272	2.67
	4600	2171	<b>1940</b>	<b>1.73</b>	1987	1.86	2034	1.98	2079	2.11	2123	2.24	2165	2.37	2207	2.50	2248	2.63	2289	2.76	<b>2329</b>	2.90
	4800	2265	2010	1.93	2056	2.06	2101	2.19	2145	2.33	2188	2.46	2229	2.60	2270	2.73	2310	2.87	2350	3.00	2389	3.14
	5000	2360	2080	2.14	2125	2.27	2168	2.41	2211	2.55	2252	2.69	2293	2.83	2332	2.97	2371	3.11	2410	3.25	2448	3.30
	5200	2454	2149	2.36	2193	2.50	2235	2.64	2277	2.79	2317	2.93	2357	3.08	2395	3.22	2433	3.37	2471	3.52	2508	3.67
	5400	2549	2218	2.59	2260	2.74	2302	2.88	2342	3.03	2382	3.18	2420	3.33	2458	3.48	2495	3.64	2531	3.79	2567	3.95
	5600	2643	2286	<b>I</b> 2.83	2328	2.98	2368	3.13	2408	3.29	2446	3.44	2484	3.60	2520	3.76	2555	3.92	2591	4.08	2626	4.24
	5800	2737	2355	3.09	2396	3.24	2435	3.40	2474	3.56	2510	3.72	2547	3.88	2582	4.05	2616	4.22	2651	4.39	2686	4.55
6000	2832	2444	3.44	2482	3.60	2521	3.77	2557	3.93	2593	4.10	2626	4.28	2660	4.46	2694	4.63	-	-	-	-	

Region "I" shows standard motor size 3.0kw

Table 31

Region "II" shows alternate motor size 4.0kw

Region "III" shows alternate motor size 5.5kw

Model PAC4A	AIR FLOW		EXTERNAL STATIC PRESSURE-inch wg.(Pa)																			
			0.2 (50)		0.4 (100)		0.6 (150)		0.8 (200)		1 (250)		1.2 (300)		1.4 (350)		1.6 (400)		1.8 (450)		2 (500)	
	CFM	L/S	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW
62035	3000	1416	<b>1753</b>	<b>0.71</b>	<b>1820</b>	<b>0.80</b>	<b>1884</b>	<b>0.88</b>	<b>1945</b>	<b>0.97</b>	<b>2004</b>	<b>1.05</b>	2061	1.14	2117	1.22	2172	1.31	2226	1.40	2279	1.49
	3200	1510	<b>1853</b>	<b>0.85</b>	<b>1918</b>	<b>0.93</b>	<b>1978</b>	<b>1.02</b>	<b>2037</b>	<b>1.11</b>	2093	1.20	2148	1.29	2201	1.38	2254	1.47	2305	1.57	2356	1.66
	3400	1605	<b>1954</b>	<b>1.00</b>	<b>2015</b>	<b>1.09</b>	2073	1.19	2130	1.28	2184	1.38	2237	1.47	2289	1.57	2340	1.66	2389	1.76	2439	1.86
	3600	1699	<b>2023</b>	<b>1.12</b>	2082	1.21	2139	1.31	2195	1.41	2248	1.51	2300	1.61	2350	1.71	2400	1.81	2448	1.91	2496	2.02
	3800	1793	2121	<b>I</b> 1.28	2177	1.38	2234	1.49	2286	1.59	2338	1.69	2387	1.80	2436	1.91	2484	2.01	2531	2.12	2576	2.23
	4000	1888	2217	<b>I</b> 1.45	2272	1.56	2325	1.66	2376	1.77	2425	1.88	2473	1.99	2520	2.11	2566	2.22	2611	2.33	<b>2655</b>	<b>2.44</b>
	4200	1982	2313	1.64	2366	1.75	2416	1.85	2466	1.96	2513	2.08	2559	2.21	2604	2.32	<b>2649</b>	<b>2.43</b>	<b>2691</b>	<b>2.55</b>	-	-
	4400	2077	<b>1869</b>	<b>1.55</b>	<b>1918</b>	<b>1.67</b>	1966	1.79	2013	1.91	2058	2.04	2102	2.16	2145	2.29	2188	2.41	2230	2.54	2272	2.67
	4600	2171	<b>1940</b>	<b>1.73</b>	1987	1.86	2034	1.98	2079	2.11	2123	2.24	2165	2.37	2207	2.50	2248	2.63	2289	2.76	2329	2.90
	4800	2265	2010	1.93	2056	2.06	2101	2.19	2145	2.33	2188	2.46	2229	2.60	2270	2.73	2310	2.87	2350	3.00	2389	3.14
	5000	2360	2080	2.14	2125	2.27	2168	2.41	2211	2.55	2252	2.69	2293	2.83	2332	2.97	2371	3.11	2410	3.25	2448	3.30
	5200	2454	2149	2.36	2193	2.50	2235	2.64	2277	2.79	2317	2.93	2357	3.08	2395	3.22	2433	3.37	2471	3.52	2508	3.67
	5400	2549	2218	2.59	2260	2.74	2302	2.88	2342	3.03	2382	3.18	2420	3.33	2458	3.48	2495	3.64	2531	3.79	2567	3.95
	5600	2643	2286	<b>I</b> 2.83	2328	2.98	2368	3.13	2408	3.29	2446	3.44	2484	3.60	2520	3.76	2555	3.92	2591	4.08	2626	4.24
	5800	2737	2355	3.09	2396	3.24	2435	3.40	2474	3.56	2510	3.72	2547	3.88	2582	4.05	2616	4.22	2651	4.39	2686	4.55
6000	2832	2444	3.44	2482	3.60	2521	3.77	2557	3.93	2593	4.10	2626	4.28	2660	4.46	2694	4.63	-	-	-	-	

Region "I" shows standard motor size 3.0kw

Table 32

Region "II" shows alternate motor size 4.0kw

Region "III" shows alternate motor size 5.5kw

### Notes:

- (1). For data specified in BOLD, kindly consult for drive set selection.
- (2). Internal static pressure is based on pressure drops through the evaporator coil, fan casing, droplet eliminator, 1" flat filter G2 and F8 15" bag filter.
- (3). USM option for region III, please consult SKM.

## FAN PERFORMANCE

Model PAC4A	AIR FLOW		EXTERNAL STATIC PRESSURE-inch wg.(Pa)																			
			0.2 (50)		0.4 (100)		0.6 (150)		0.8 (200)		1 (250)		1.2 (300)		1.4 (350)		1.6 (400)		1.8 (450)		2 (500)	
	CFM		RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW	RPM	BKW
62040	3800	1793	1593	0.96	1652	1.06	1706	1.17	1760	1.28	1811	1.39	1862	1.49	1911	1.60	1959	1.71	2006	1.83	2053	1.94
	4000	1888	1669	1.11	1725	1.22	1778	1.33	1829	1.44	1879	1.55	1928	1.66	1975	1.78	2021	1.89	2067	2.01	2112	2.13
	4200	1982	1716	1.20	1770	1.32	1823	1.43	1873	1.55	1922	1.66	1969	1.78	2015	1.90	2060	2.02	2105	2.14	2149	2.26
	4400	2077	1792	1.37	1843	1.49	1895	1.61	1942	1.73	1990	1.85	2035	1.98	2081	2.10	2124	2.23	2167	2.35	2209	2.48
	4600	2171	1864	1.54	1915	1.67	1964	1.79	2011	1.92	2056	2.05	2101	2.18	2144	2.31	2186	2.44	2228	2.57	2269	2.70
	4800	2265	1912	1.67	1962	1.80	2010	1.93	2056	2.06	2101	2.19	2145	2.33	2188	2.46	2229	2.60	2270	2.73	2310	2.87
	5000	2360	1985	1.87	2034	2.00	2080	2.14	2125	2.27	2168	2.41	2211	2.55	2252	2.69	2293	2.83	2332	2.97	2371	3.11
	5200	2454	2058	2.08	2104	2.22	2149	2.36	2193	2.50	2235	2.64	2277	2.79	2317	2.93	2357	3.08	2395	3.22	<b>2433</b>	<b>3.37</b>
	5400	2549	<b>1606</b>	<b>1.81</b>	<b>1651</b>	<b>1.95</b>	1695	2.10	1738	2.25	1779	2.40	1819	2.56	1858	2.71	1897	2.87	1935	3.03	1973	3.19
	5600	2643	<b>1660</b>	<b>1.99</b>	1703	2.14	1746	2.29	1787	2.45	1827	2.61	1866	2.77	1904	2.92	1942	3.09	1979	3.25	2016	3.42
	5800	2737	1712	2.19	1755	2.35	1796	2.51	1836	2.67	1875	2.83	1913	2.99	1951	3.15	1988	3.32	2024	3.49	2060	3.66
	6000	<b>2832</b>	1764	2.40	1806	2.56	1846	2.72	1885	2.88	1923	3.05	1961	3.22	1997	3.39	2033	3.56	2068	3.73	2103	3.90
	6200	<b>2926</b>	1815	2.62	1856	2.78	1895	2.95	1934	3.12	1971	3.29	2007	3.47	2043	3.64	2078	3.81	2113	3.99	2147	4.17
	6400	3020	1867	2.84	1906	3.02	1945	3.19	1982	3.37	2018	3.54	2054	3.72	2089	3.89	2123	4.07	2157	4.25	<b>2190</b>	<b>4.44</b>
	6600	3115	1917	3.09	1956	3.26	1993	3.44	2030	3.62	2066	3.80	2101	3.98	2135	4.16	2168	4.35	<b>2201</b>	<b>4.54</b>	<b>II</b>	-
6800	3209	1967	3.34	2005	3.51	2042	3.70	2078	3.88	2113	4.07	2147	4.25	<b>2180</b>	<b>4.44</b>	<b>2213</b>	<b>4.63</b>	-	-	<b>II</b>	-	

Table 33

Region "I" shows alternate motor size 4.0kw

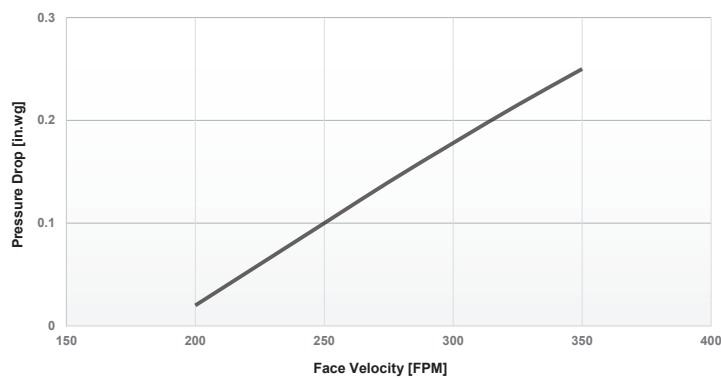
Region "II" shows alternate motor size 5.5kw

### Notes:

- (1). For data specified in BOLD, kindly consult for drive set selection.
- (2). Internal static pressure is based on pressure drops through the evaporator coil, fan casing, droplet eliminator, 1" flat filter G2 and F8 15" bag filter.
- (3). USM option for region III, please consult SKM.

### Sand Trap Louver Pressure Drop

If sand trap louver is required, please consider the pressure drop on the curve below and add the same to external static pressure to select the correct fan drive from the tables above.



\*\*Note that the face velocity to be calculated based on the face area of sand trap louver shown in drawings, page 29-32.



## ELECTRICAL DATA

**Power Supply: 380~415V/3Ph/50Hz**

Model PAC4A	Unit Characteristic			Compressor			Condenser Fan Motor			Evaporator Fan Motor	
	MFA	MCA	ICF	QTY	RLA	LRA	QTY	FLA	LRA	FLA	LRA
51006	32	18	79	1	11.8	74	2	0.9	2.6	1.8	9.0
52008	40	26	88	2	9.6	72	2	0.9	2.6	2.7	13.0
52010	63	31	92	2	11.8	74	2	0.9	2.6	2.7	13.0
52011	63	34	96	2	12.5	75	2	1.2	3.6	3.3	24.0
52013	63	36	123	2	13.6	101	2	1.2	3.6	3.3	24.0
52015	80	50	144	2	18.6	111	2	2.2	9.0	3.3	24.0
52018	80	54	154	2	20	118	2	2.2	9.0	4.6	40.0
52020	80	55	154	1 + 1	21 + 20	118 + 118	2	2.2	9.0	4.6	40.0
52023	100	65	181	2	25	140	2	2.2	9.0	4.6	40.0
52025	125	74	224	1 + 1	29 + 25	174 + 140	2	4.0	16.5	4.6	40.0
52030	125	87	280	1 + 1	34 + 29	229 + 174	4	2.2	9.0	6.0	48.0
52035	160	92	285	2	34.3	229	4	2.2	9.0	6.0	48.0
52040	160	111	391	1 + 1	42 + 34	320 + 229	4	4.0	16.5	7.9	49.0

Table 34

**Power Supply: 380~415V/3Ph/60Hz**

Model PAC4A	Unit Characteristic			Compressor			Condenser Fan Motor			Evaporator Fan Motor	
	MFA	MCA	ICF	QTY	RLA	LRA	QTY	FLA	LRA	FLA	LRA
61006	32	16	83	1	10.4	78	2	0.9	2.6	1.7	13.0
62008	40	25	93	2	9.4	78	2	0.9	2.6	2.3	16.0
62010	40	27	94	2	10.4	78	2	0.9	2.6	2.3	16.0
62011	63	32	98	2	11.9	78	2	1.2	3.6	3.2	24.0
62013	63	36	108	2	12.2	88	2	1.2	3.6	3.2	24.0
62015	63	42	124	2	15.5	94	2	2.2	9.0	3.2	33.0
62018	80	57	177	2	21.4	140	2	2.2	9.0	4.5	33.0
62020	100	63	182	1 + 1	26 + 21	145 + 140	2	2.2	9.0	4.5	33.0
62023	100	68	187	2	26.4	145	2	2.2	9.0	4.5	33.0
62025	100	71	191	2	26.4	145	2	3.4	10.0	6.0	50.0
62030	160	91	247	1 + 1	38 + 29	196 + 138	4	2.2	9.0	6.0	50.0
62035	160	102	350	1 + 1	39 + 38	290 + 196	4	2.2	9.0	6.0	50.0
62040	160	110	358	2	39.3	290	4	3.4	10.0	8.1	57.0

Table 35

### Legend

**MFA** Maximum Fuse Amps (for fuse/circuit breaker sizing), complies with NEC Article 440-22 & 430-52.  
**MCA** Minimum Circuit Amps. (for wire sizing), complies with NEC article 440-33.

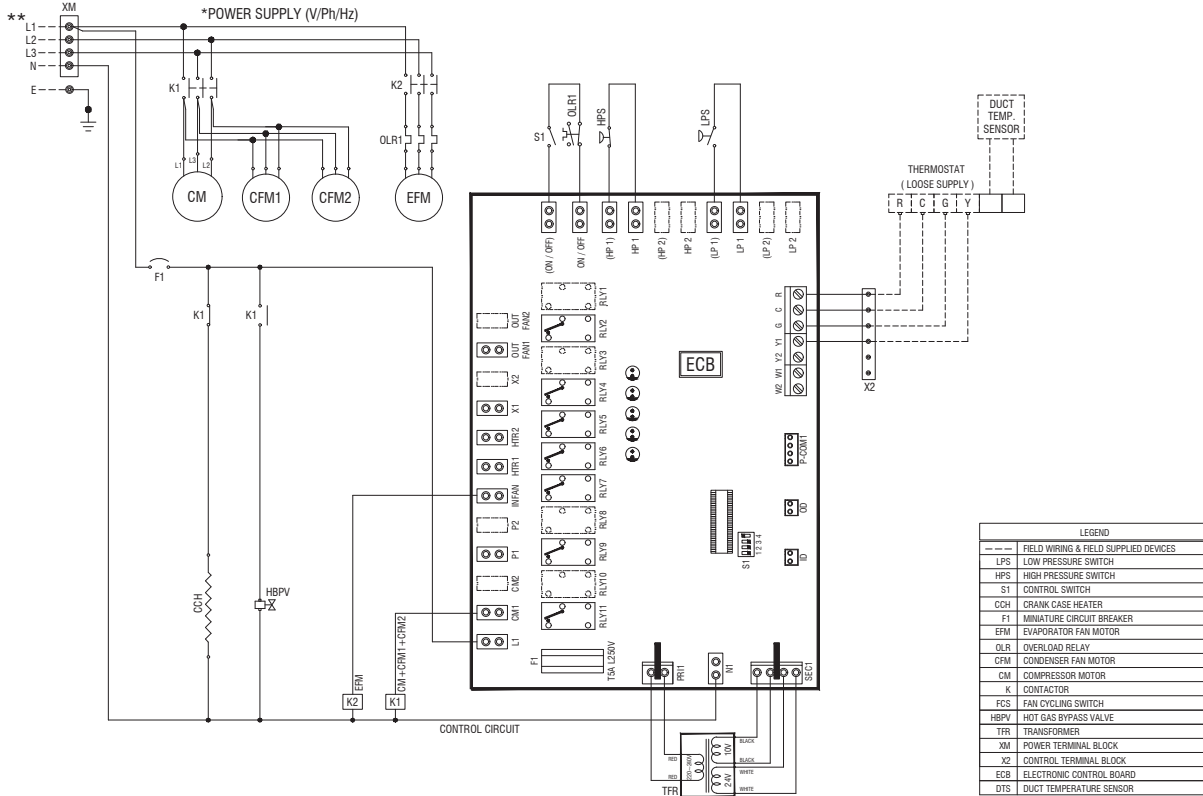
**RLA** Rated Load Amps. (at worst operating condition)  
**LRA** Locked Rotor Amps  
**FLA** Full Load Amps

### Note :

- (1). Voltage imbalance not to exceed  $\pm 2\%$  of the rated voltage.
- (2). Electrical data is based on motor alternative 1. For others, please contact SKM.

## Typical Wiring Diagram

PAC4A Model: 51006 & 61006

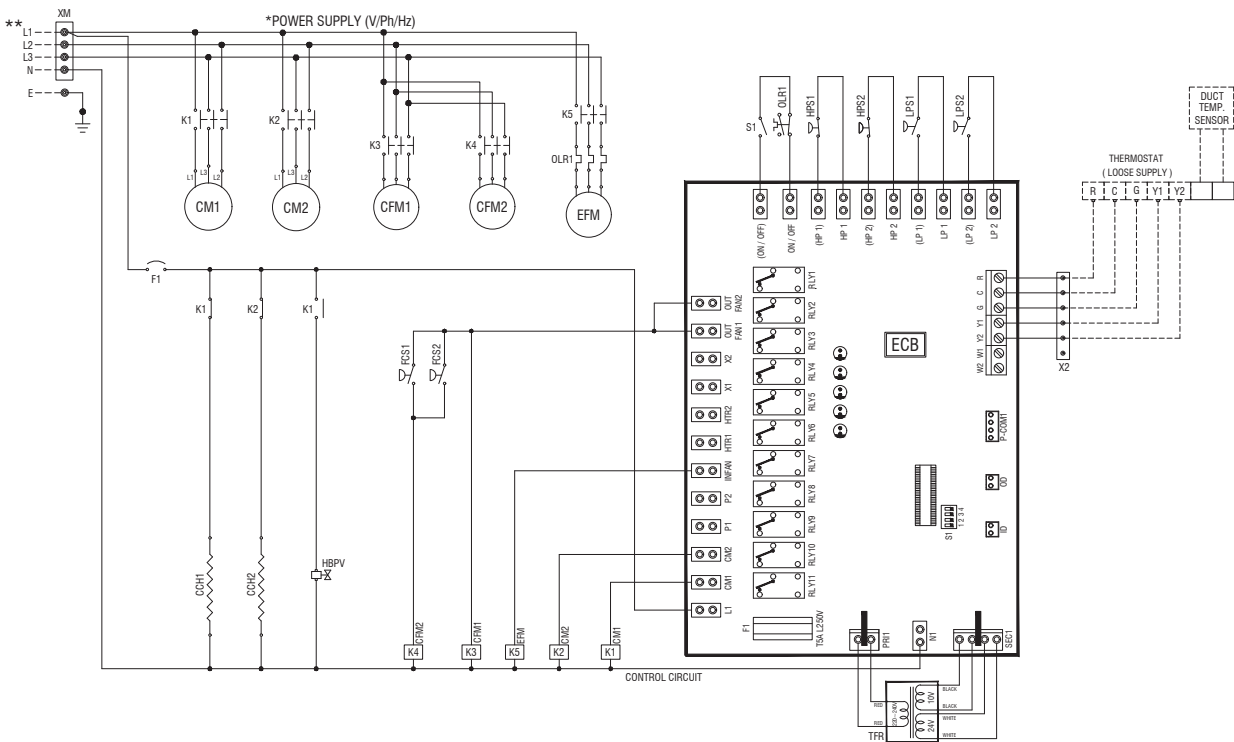


LEGEND	
---	FIELD WIRING & FIELD SUPPLIED DEVICES
LPS	LOW PRESSURE SWITCH
HPS	HIGH PRESSURE SWITCH
S1	CONTROL SWITCH
CCH	CRANK CASE HEATER
F1	MINIATURE CIRCUIT BREAKER
EFM	EVAPORATOR FAN MOTOR
OLR	OVERLOAD RELAY
CFM	CONDENSER FAN MOTOR
CM	COMPRESSOR MOTOR
K	CONTACTOR
FCS	FAN CYCLING SWITCH
HBPV	HOT GAS BYPASS VALVE
TFR	TRANSFORMER
XM	POWER TERMINAL BLOCK
X2	CONTROL TERMINAL BLOCK
ECB	ELECTRONIC CONTROL BOARD
DTs	DUCT TEMPERATURE SENSOR

TYPICAL WIRING DIAGRAM SHOWN IS SUITABLE FOR 380-415V/3PH/50Hz ONLY. FOR 440V/3PH/50Hz, PLEASE CONSULT SKM.

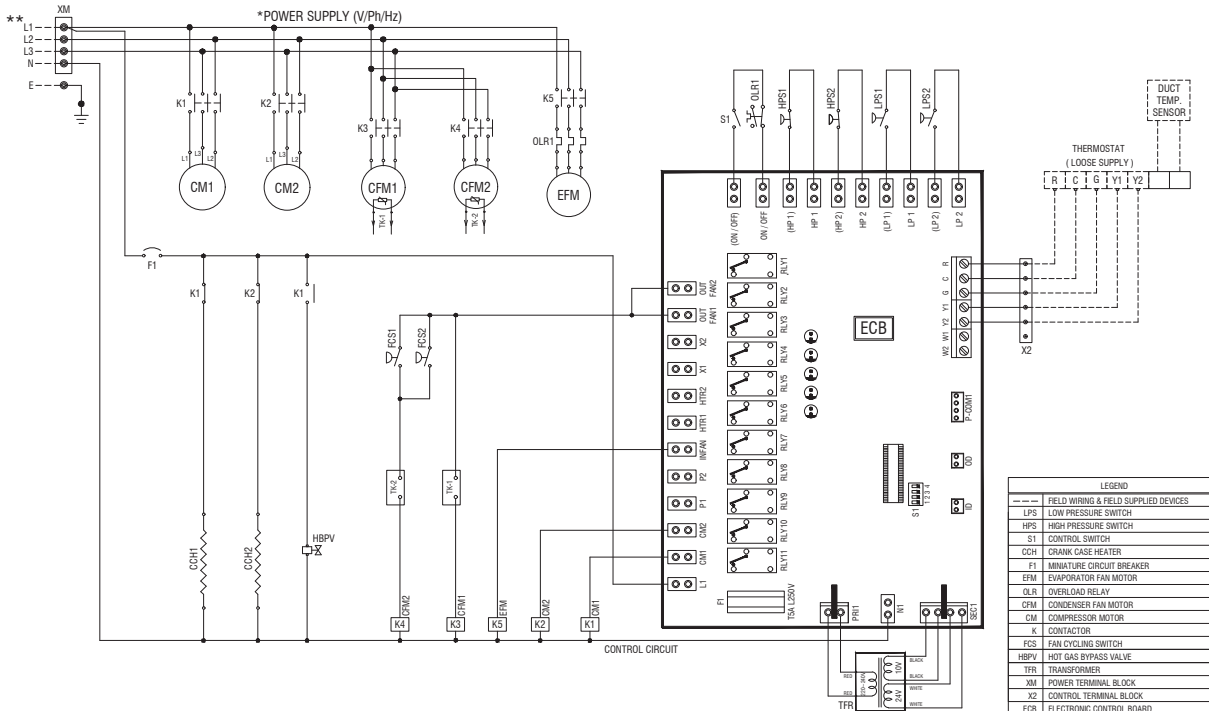
PROVIDE OVERCURRENT, EARTH FAULT PROTECTION SHORT CIRCUIT AND DISCONNECT MEANS AS REQUIRED BY LOCAL & NATIONAL ELECTRICAL CODE. (BY OTHERS)

## PAC4A Model: 52008-52013 & 62008-62013



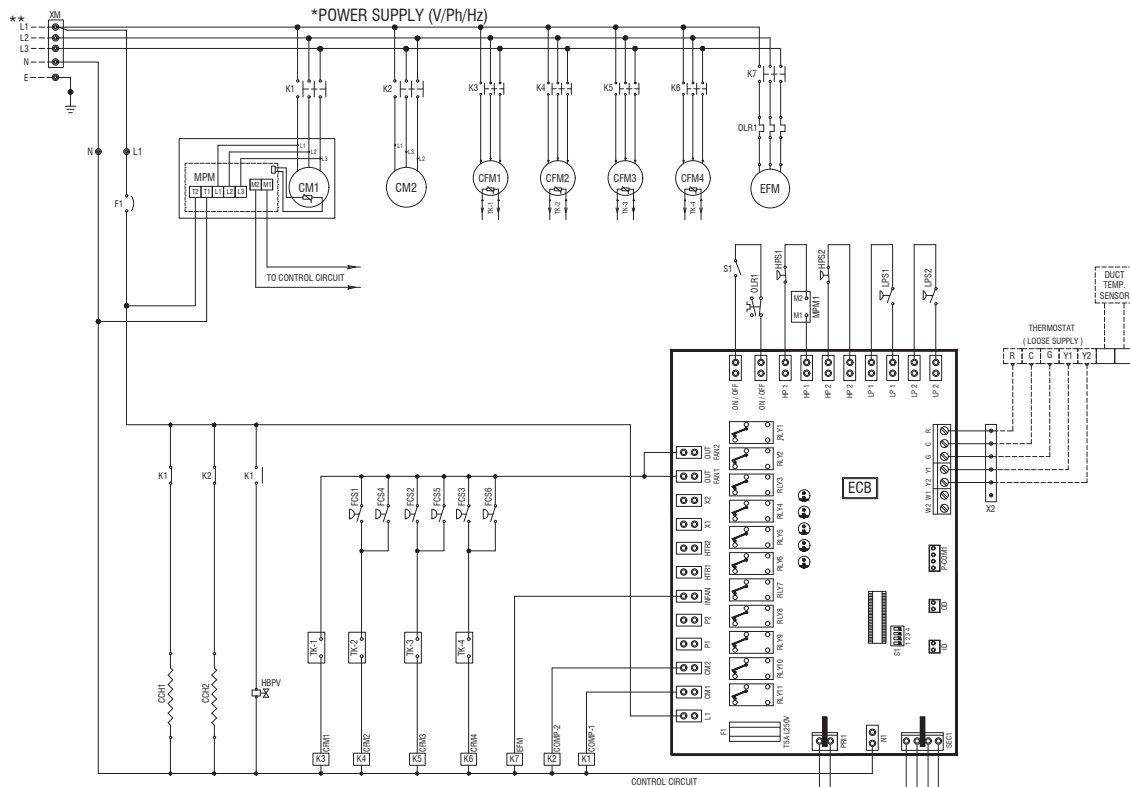


PAC4A Model: 52015-52025 & 62015-62025



LEGEND	
---	FIELD WIRING & FIELD SUPPLIED DEVICES
---	LPS LOW PRESSURE SWITCH
---	HPS HIGH PRESSURE SWITCH
---	S1 CONTROL SWITCH
---	CCH CRANK CASE HEATER
---	F1 MINATURE CIRCUIT BREAKER
---	EFM EVAPORATION FAN MOTOR
---	OLR OVERLOAD RELAY
---	CFM CONDENSER FAN MOTOR
---	CM COMPRESSOR MOTOR
---	K CONTACTOR
---	FCS FAN CYCLING SWITCH
---	HBPV HOT GAS BYPASS VALVE
---	TFR TRANSFORMER
---	XM POWER TERMINAL BLOCK
---	X2 CONTROL TERMINAL BLOCK
---	ECB ELECTRONIC CONTROL BOARD
---	TK THERMAL OVERLOAD RELAY
---	DTS DUCT TEMPERATURE SENSOR

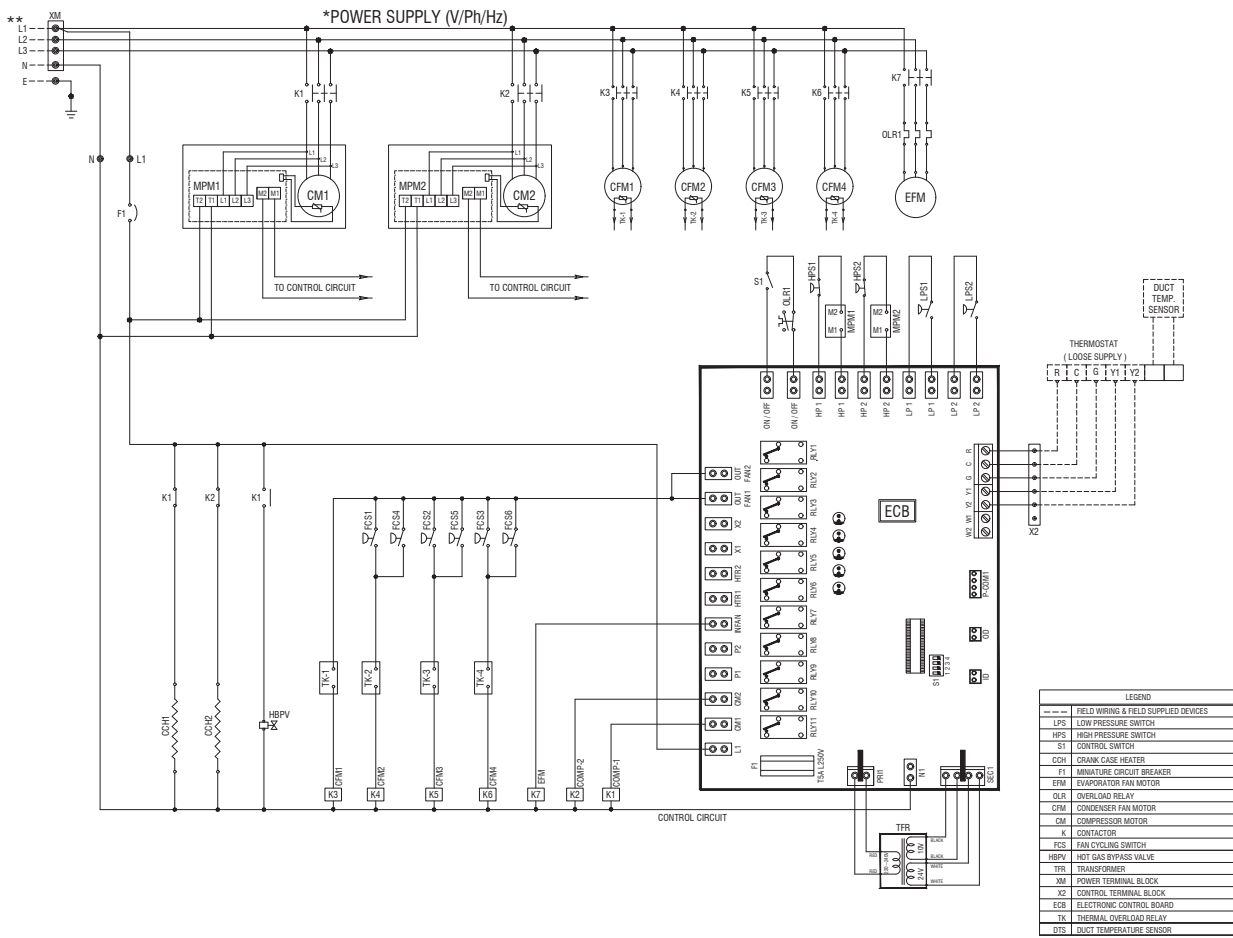
PAC4A Model: 52030 & 62030



\* TYPICAL WIRING DIAGRAM SHOWN IS SUITABLE FOR 380-415V/3PH/50Hz ONLY. FOR 440V/3PH/60Hz, PLEASE CONSULT SMM.

\*\* PROVIDE OVERCURRENT, EARTH FAULT PROTECTION SHORT CIRCUIT AND DISCONNECT MEANS AS REQUIRED BY LOCAL & NATIONAL ELECTRICAL CODE. (BY OTHERS).

## PAC4A Model: 52035-52040 & 62035-62040



LEGEND	
---	FIELD WIRING & FIELD SUPPLIED DEVICES
LPS	LOW PRESSURE SWITCH
HPS	HIGH PRESSURE SWITCH
S1	CONTROL SWITCH
CCH	CRANK CASE HEATER
F1	MINIATURE CIRCUIT BREAKER
EFM	EVAPORATOR FAN MOTOR
OLR	OVERLOAD RELAY
CFM	CONDENSER FAN MOTOR
CM	COMPRESSOR MOTOR
K	CONTACTOR
FCS	FAN CYCLING SWITCH
HBPV	HOT GAS BYPASS VALVE
TFR	TRANSFORMER
X1	POWER TERMINAL BLOCK
X2	CONTROL TERMINAL BLOCK
ECB	ELECTRONIC CONTROL BOARD
TK	THERMAL OVERLOAD RELAY
DTS	DUCT TEMPERATURE SENSOR

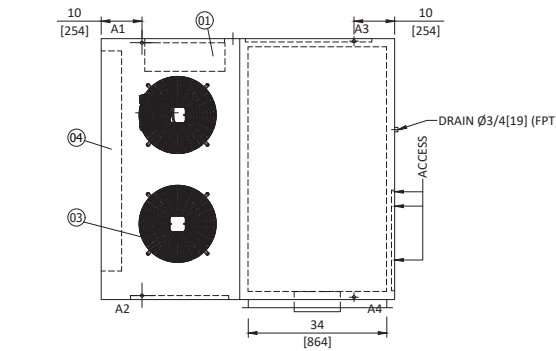
- 1. TYPICAL WIRING DIAGRAM SHOWN IS SUITABLE FOR 380-415V/3PH/50Hz ONLY. FOR 400V/3PH/50Hz, PLEASE CONSULT OEM.
- 2. PROVIDE OVERCURRENT, EARTH FAULT PROTECTION SHORT CIRCUIT AND DISCONNECT MEANS AS REQUIRED BY LOCAL & NATIONAL ELECTRICAL CODE. (BY OTHERS)





## Dimensional Data

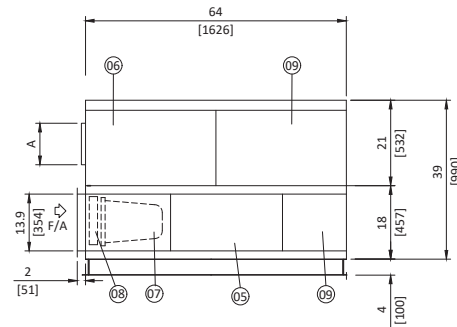
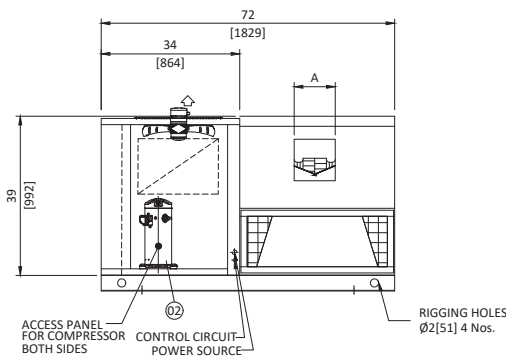
### PAC4A Model - 51006/61006



DIMENSIONS [mm]		
MODEL	ALT	A
51006/61006	FAN ALT 1	256
	FAN ALT 2	-

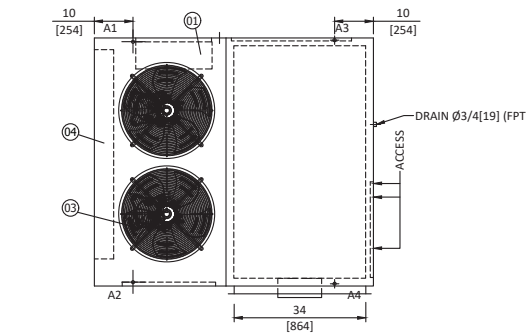
LEGEND

- 1- CONTROL PANEL
- 2- COMPRESSOR
- 3- CONDENSER FAN
- 4- CONDENSER COIL
- 5- EVAP. COIL + ELIMINATOR SECTION
- 6- EVAP. FAN & MOTOR SECTION
- 7- 15" BAG FLAT FILTER
- 8- 1" FLAT FILTER
- 9- PLENUM SECTION



ALL DIMENSIONS ARE IN INCHES[mm]

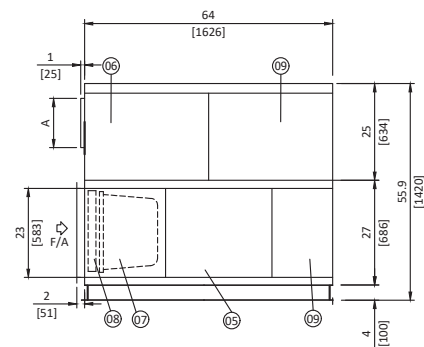
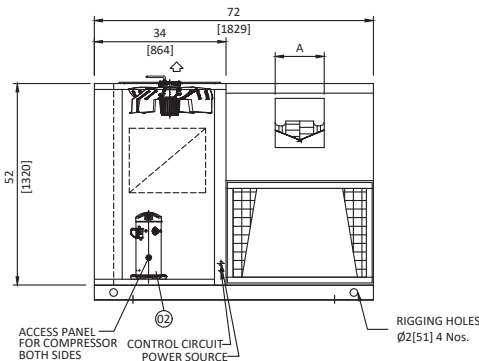
### PAC4A Model - 52008/52010 & 62008/62010



DIMENSIONS [mm]		
MODEL	ALT	A
52008/62008	FAN ALT 1	288
	FAN ALT 2	-
52010/62010	FAN ALT 1	288
	FAN ALT 2	-

LEGEND

- 1- CONTROL PANEL
- 2- COMPRESSOR
- 3- CONDENSER FAN
- 4- CONDENSER COIL
- 5- EVAP. COIL + ELIMINATOR SECTION
- 6- EVAP. FAN & MOTOR SECTION
- 7- 15" BAG FLAT FILTER
- 8- 1" FLAT FILTER
- 9- PLENUM SECTION

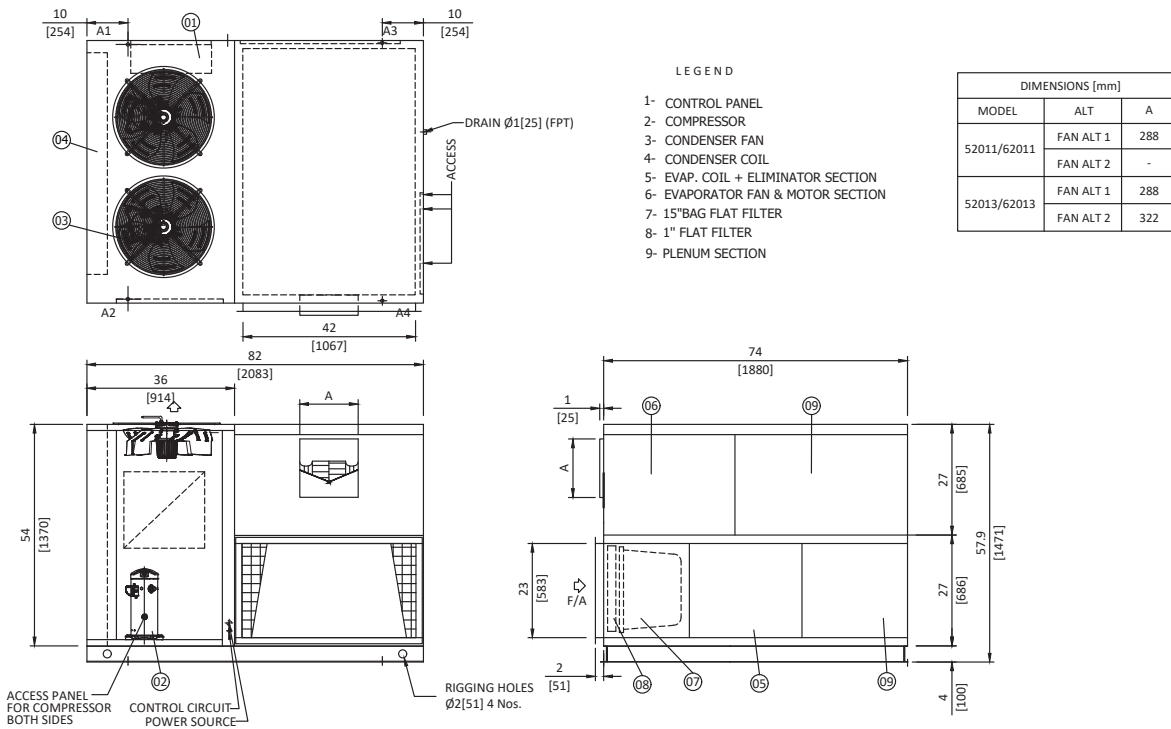


ALL DIMENSIONS ARE IN INCHES[mm]

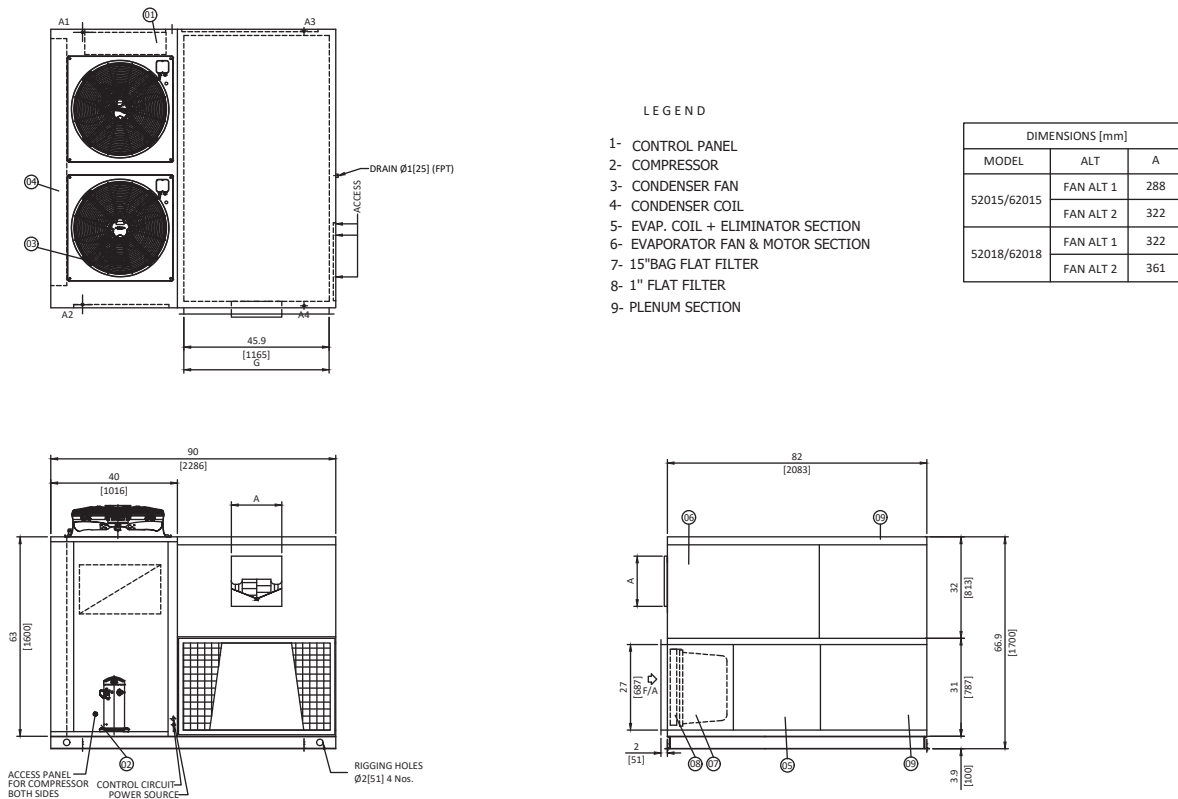
Note :

1. Drawings are not contractually binding.
2. Before designing an installation, consult the certified drawings, available on request.
3. For single unit and multiple unit installation or unit is installing near to the wall, Please refer to the recommended clearance drawings (refer page no:34).
4. Dimensions shown in standard drawing are suitable only for open trailers. In case of closed container please consult SKM as the unit dimension will change.

## PAC4A Model - 52011/52013 & 62011/62013



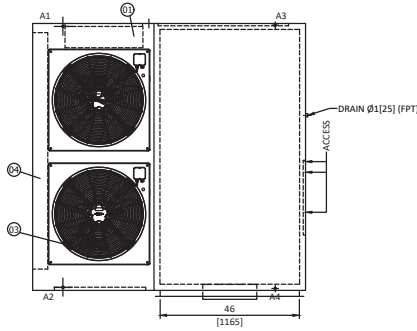
## PAC4A Model - 52015/52018 & 62015/62018



- Note :**
- Drawings are not contractually binding.
  - Before designing an installation, consult the certified drawings, available on request.
  - For single unit and multiple unit installation or unit is installing near to the wall, please refer to the recommended clearance drawings (refer page no:34).
  - Dimensions shown in standard drawing are suitable only for open trailers. In case of closed container please consult SKM as the unit dimension will change.

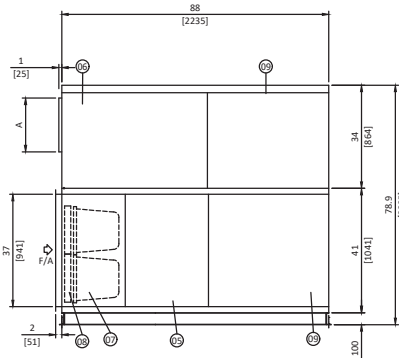
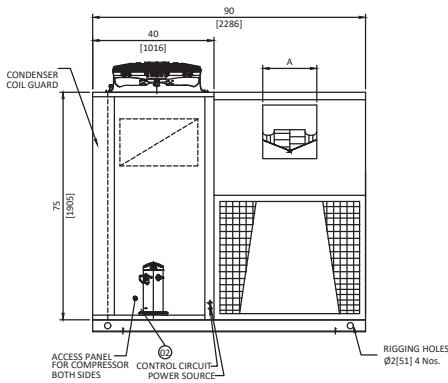


PAC4A Model - 52020/52023 & 62020/62023



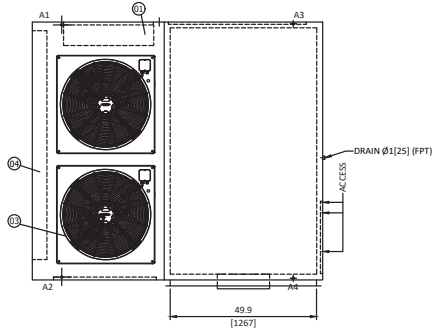
- LEGEND
- 1- CONTROL PANEL
  - 2- COMPRESSOR
  - 3- CONDENSER FAN
  - 4- CONDENSER COIL
  - 5- EVAP. COIL + ELIMINATOR SECTION
  - 6- EVAPORATOR FAN & MOTOR SECTION
  - 7- 15" BAG FLAT FILTER
  - 8- 1" FLAT FILTER
  - 9- PLENUM SECTION

DIMENSIONS [mm]		
MODEL	ALT	A
52020/62020	FAN ALT 1	361
	FAN ALT 2	404
52023/62023	FAN ALT 1	361
	FAN ALT 2	404



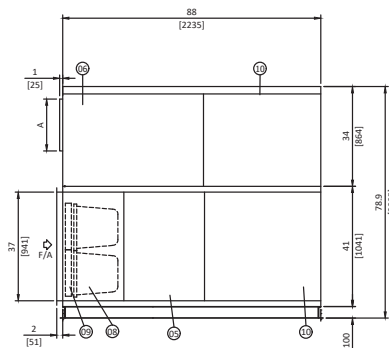
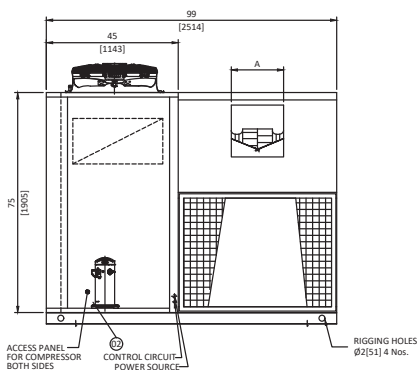
ALL DIMENSIONS ARE IN INCHES[mm]

PAC4A Model - 52025 & 62025



- LEGEND
- 1- CONTROL PANEL
  - 2- COMPRESSOR
  - 3- CONDENSER FAN
  - 4- CONDENSER COIL
  - 5- EVAP. COIL + ELIMINATOR SECTION
  - 6- EVAPORATOR FAN & MOTOR SECTION
  - 7- 15" BAG FLAT FILTER
  - 8- 1" FLAT FILTER
  - 9- PLENUM SECTION

DIMENSIONS [mm]		
MODEL	ALT	A
52025/62025	FAN ALT 1	361
	FAN ALT 2	404

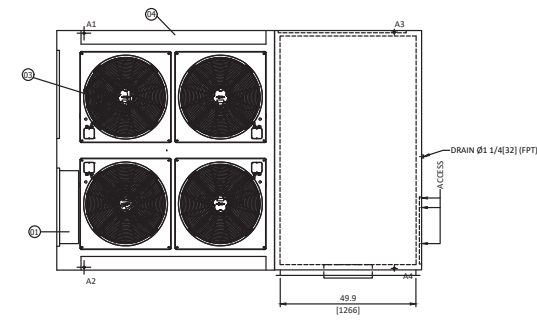


ALL DIMENSIONS ARE IN INCHES[mm]

Note :

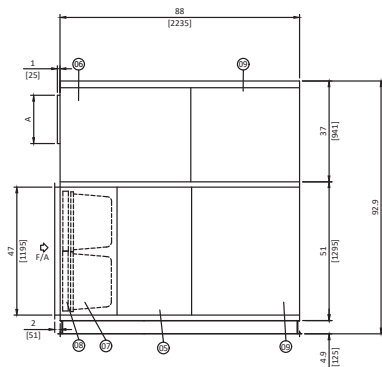
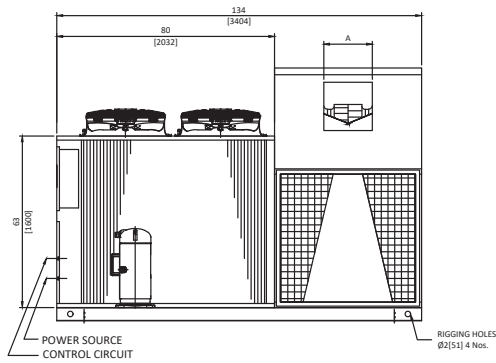
1. Drawings are not contractually binding.
2. Before designing an installation, consult the certified drawings, available on request.
3. For single unit and multiple unit installation or unit is installing near to the wall, please refer to the recommended clearance drawings (refer page no:34).
4. Dimensions shown in standard drawing are suitable only for open trailers. In case of closed container please consult SKM as the unit dimension will change.

## PAC4A Model - 52030/52035 & 62030/62035



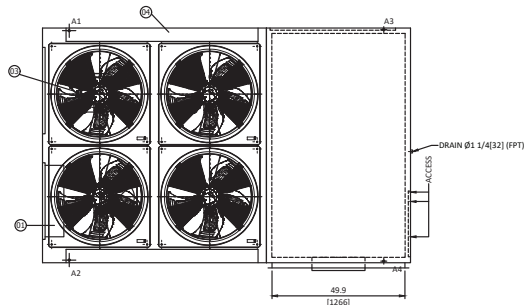
- LEGEND
- 1- CONTROL PANEL
  - 2- COMPRESSOR
  - 3- CONDENSER FAN
  - 4- CONDENSER COIL
  - 5- EVAP. COIL + ELIMINATOR SECTION
  - 6- EVAPORATOR FAN & MOTOR SECTION
  - 7- 15" BAG FLAT FILTER
  - 8- 1" FLAT FILTER
  - 9- PLENUM SECTION

DIMENSIONS [mm]		
MODEL	ALT	A
52030/62030	FAN ALT 1	404
	FAN ALT 2	453
52035/62035	FAN ALT 1	404
	FAN ALT 2	453



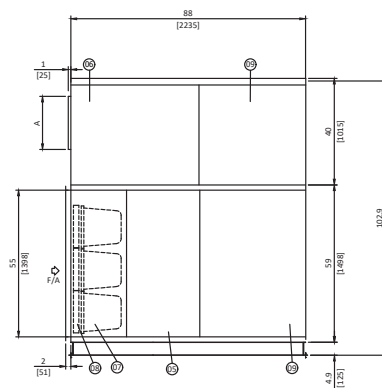
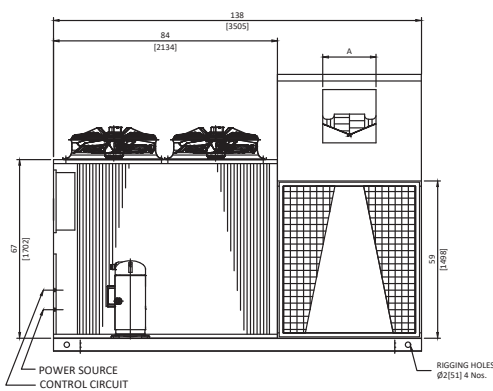
ALL DIMENSIONS ARE IN INCHES[mm]

## PAC4A Model - 52040 & 62040



- LEGEND
- 1- CONTROL PANEL
  - 2- COMPRESSOR
  - 3- CONDENSER FAN
  - 4- CONDENSER COIL
  - 5- EVAP. COIL + ELIMINATOR SECTION
  - 6- EVAPORATOR FAN & MOTOR SECTION
  - 7- 15" BAG FLAT FILTER
  - 8- 1" FLAT FILTER
  - 9- PLENUM SECTION

DIMENSIONS [mm]		
MODEL	ALT	A
52040/62040	FAN ALT 1	453
	FAN ALT 2	507



ALL DIMENSIONS ARE IN INCHES[mm]

### Note :

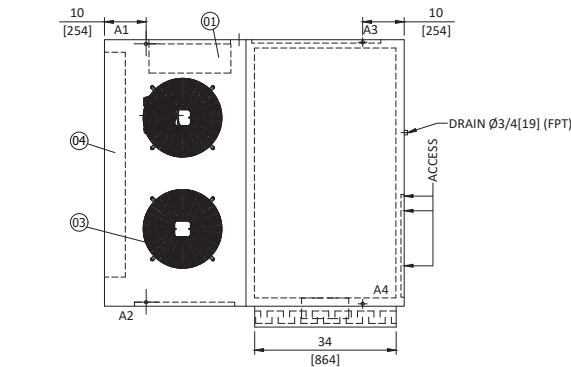
1. Drawings are not contractually binding.
2. Before designing an installation, consult the certified drawings, available on request.
3. For single unit and multiple unit installation or unit is installing near to the wall, please refer to the recommended clearance drawings (refer page no:34).
4. Dimensions shown in standard drawing are suitable only for open trailers. In case of closed container please consult SKM as the unit dimension will change.



## Dimensional Data

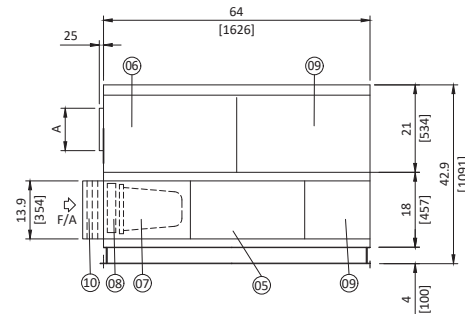
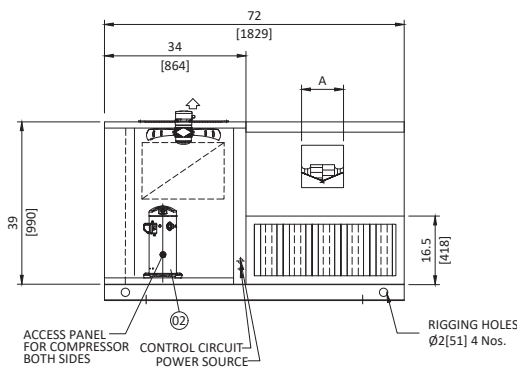
### Sand Trap Louver Option

### PAC4A Model - 51006 & 61006



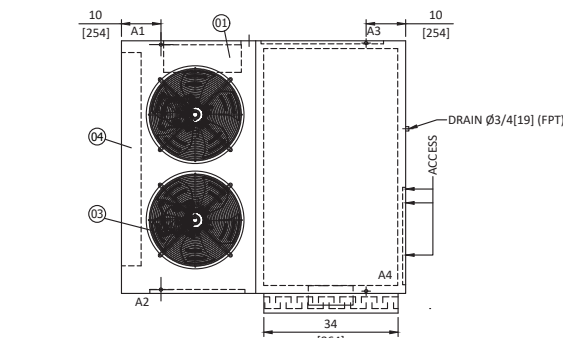
DIMENSIONS [mm]		
MODEL	ALT	A
51006/61006	FAN ALT 1	256
	FAN ALT 2	-

- LEGEND
- CONTROL PANEL
  - COMPRESSOR
  - CONDENSER FAN
  - CONDENSER COIL
  - EVAPORATOR COIL + ELIMINATOR SECTION
  - EVAPORATOR FAN & MOTOR SECTION
  - 15" BAG FLAT FILTER
  - 1" FLAT FILTER
  - PLENUM SECTION
  - F/AIR BOX WITH SAND TRAP LOUVER



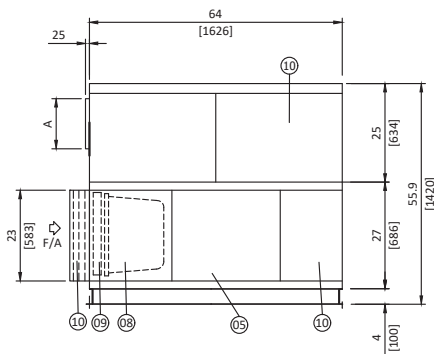
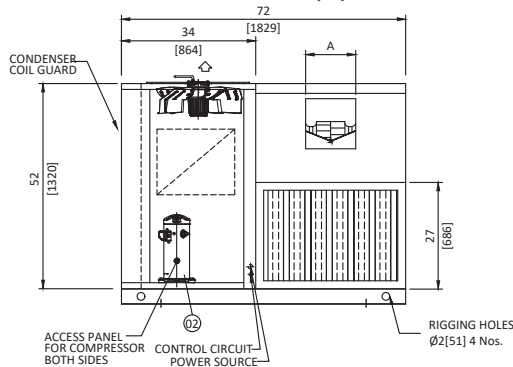
ALL DIMENSIONS ARE IN INCHES[mm]

## PAC4A Model - 52008/52010 & 62008/62010



DIMENSIONS [mm]		
MODEL	ALT	A
52008/62008	FAN ALT 1	288
	FAN ALT 2	-
52010/62010	FAN ALT 1	288
	FAN ALT 2	-

- LEGEND
- CONTROL PANEL
  - COMPRESSOR
  - CONDENSER FAN
  - CONDENSER COIL
  - EVAPORATOR COIL + ELIMINATOR SECTION
  - EVAPORATOR FAN & MOTOR SECTION
  - 15" BAG FLAT FILTER
  - 1" FLAT FILTER
  - PLENUM SECTION
  - F/AIR BOX WITH SAND TRAP LOUVER

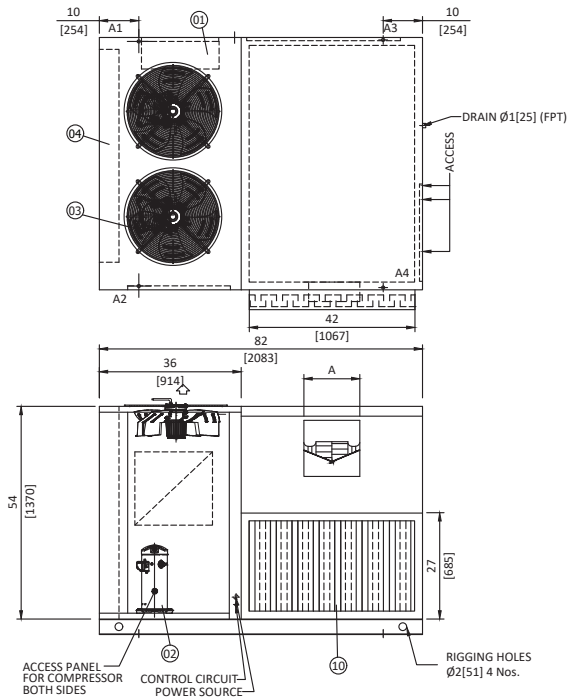


ALL DIMENSIONS ARE IN INCHES[mm]

### Note :

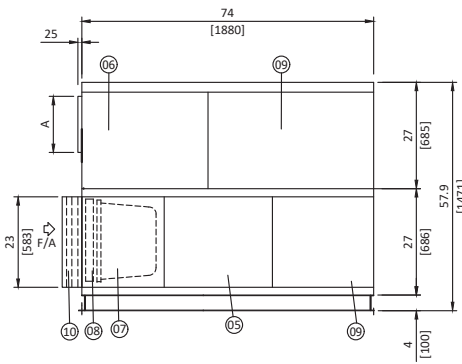
- Drawings are not contractually binding.
- Before designing an installation, consult the certified drawings, available on request.
- For single unit and multiple unit installation or unit is installing near to the wall, please refer to the recommended clearance drawings (refer page no:34).
- Dimensions shown in standard drawing are suitable only for open trailers. In case of closed container please consult SKM as the unit dimension will change.

## PAC4A Model - 52011/52013 & 62011/62013



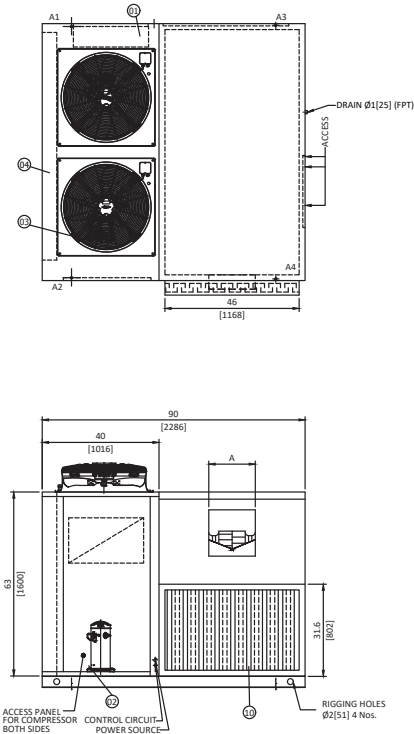
- LEGEND
- 1- CONTROL PANEL
  - 2- COMPRESSOR
  - 3- CONDENSER FAN
  - 4- CONDENSER COIL
  - 5- EVAPORATOR COIL + ELIMINATOR SECTION
  - 6- EVAPORATOR FAN & MOTOR SECTION
  - 7- 15" BAG FLAT FILTER
  - 8- 1" FLAT FILTER
  - 9- PLENUM SECTION
  - 10- F/AIR BOX WITH SAND TRAP LOUVER

DIMENSIONS [mm]		
MODEL	ALT	A
52011/62011	FAN ALT 1	288
	FAN ALT 2	-
52013/62013	FAN ALT 1	288
	FAN ALT 2	322



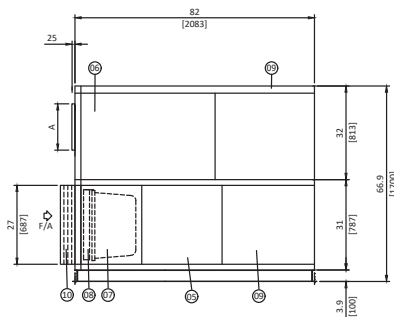
ALL DIMENSIONS ARE IN INCHES[mm]

## PAC4A Model - 52015 & 62015



- LEGEND
- 1- CONTROL PANEL
  - 2- COMPRESSOR
  - 3- CONDENSER FAN
  - 4- CONDENSER COIL
  - 5- EVAPORATOR COIL + ELIMINATOR SECTION
  - 6- EVAPORATOR FAN & MOTOR SECTION
  - 7- 15" BAG FLAT FILTER
  - 8- 1" FLAT FILTER
  - 9- PLENUM SECTION
  - 10- F/AIR BOX WITH SAND TRAP LOUVER

DIMENSIONS [mm]		
MODEL	ALT	A
52015/62015	FAN ALT 1	288
	FAN ALT 2	322

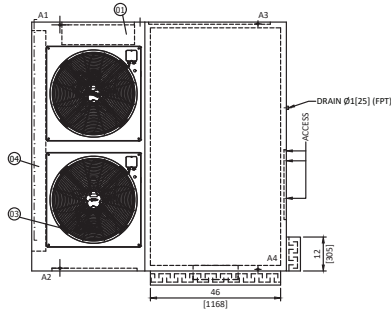


ALL DIMENSIONS ARE IN INCHES[mm]

- Note :
1. Drawings are not contractually binding.
  2. Before designing an installation, consult the certified drawings, available on request.
  3. For single unit and multiple unit installation or unit is installing near to the wall, please refer to the recommended clearance drawings (refer page no:34).
  4. Dimensions shown in standard drawing are suitable only for open trailers. In case of closed container please consult SKM as the unit dimension will change.



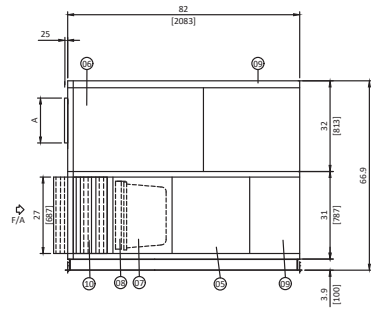
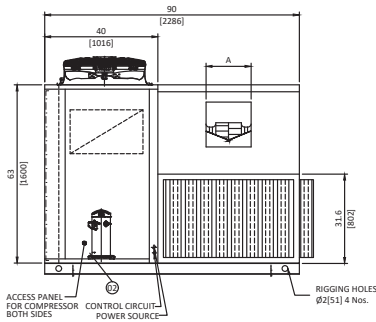
PAC4A Model - 52018 & 62018



LEGEND

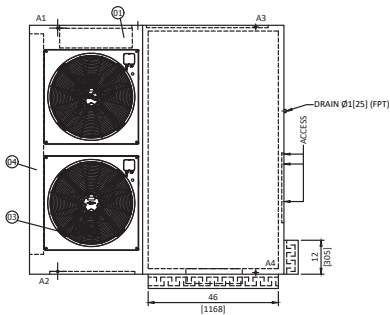
- 1- CONTROL PANEL
- 2- COMPRESSOR
- 3- CONDENSER FAN
- 4- CONDENSER COIL
- 5- EVAPORATOR COIL + ELIMINATOR SECTION
- 6- EVAPORATOR FAN & MOTOR SECTION
- 7- 15" BAG FLAT FILTER
- 8- 1" FLAT FILTER
- 9- PLENUM SECTION
- 10- F/AIR BOX WITH SAND TRAP LOUVRE

DIMENSIONS [mm]		
MODEL	ALT	A
52018/62018	FAN ALT 1	322
	FAN ALT 2	361



ALL DIMENSIONS ARE IN INCHES[mm]

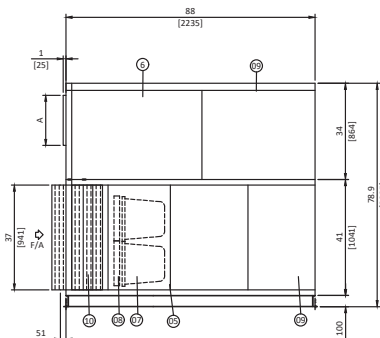
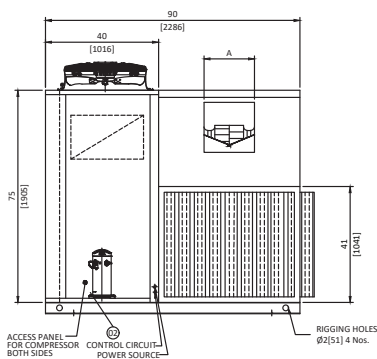
PAC4A Model - 52020/52023 & 62020/62023



LEGEND

- 1- CONTROL PANEL
- 2- COMPRESSOR
- 3- CONDENSER FAN
- 4- CONDENSER COIL
- 5- EVAPORATOR COIL + ELIMINATOR SECTION
- 6- EVAPORATOR FAN & MOTOR SECTION
- 7- 15" BAG FLAT FILTER
- 8- 1" FLAT FILTER
- 9- PLENUM SECTION
- 10- F/AIR BOX WITH SAND TRAP LOUVER

DIMENSIONS [mm]		
MODEL	ALT	A
52020/62020	FAN ALT 1	361
	FAN ALT 2	404
52023/62023	FAN ALT 1	361
	FAN ALT 2	404

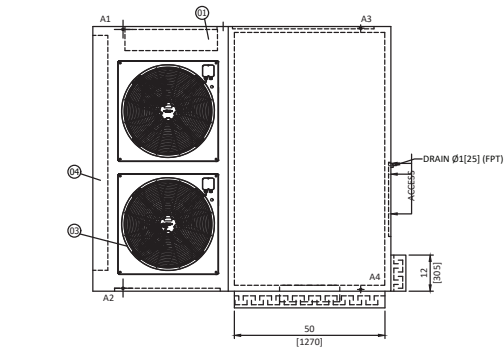


ALL DIMENSIONS ARE IN INCHES[mm]

Note :

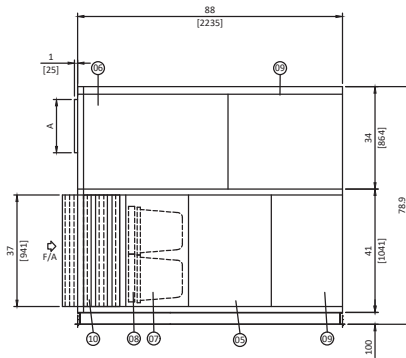
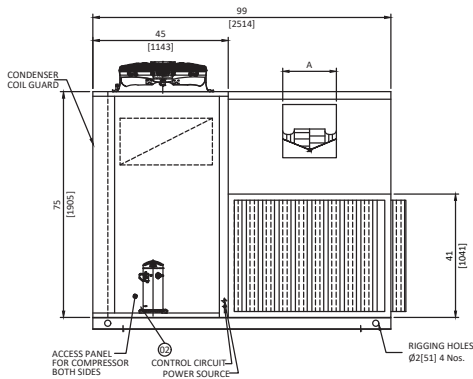
1. Drawings are not contractually binding.
2. Before designing an installation, consult the certified drawings, available on request.
3. For single unit and multiple unit installation or unit is installing near to the wall, please refer to the recommended clearance drawings (refer page no:34).
4. Dimensions shown in standard drawing are suitable only for open trailers. In case of closed container please consult SKM as the unit dimension will change.

## PAC4A Model - 52025 & 62025



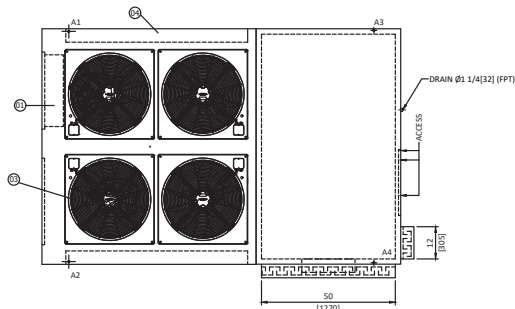
- LEGEND
- 1- CONTROL PANEL
  - 2- COMPRESSOR
  - 3- CONDENSER FAN
  - 4- CONDENSER COIL
  - 5- EVAPORATOR COIL + ELIMINATOR SECTION
  - 6- EVAPORATOR FAN & MOTOR SECTION
  - 7- 15" BAG FLAT FILTER
  - 8- 1" FLAT FILTER
  - 9- PLENUM SECTION
  - 10- F/AIR BOX WITH SAND TRAP LOUVER

DIMENSIONS [mm]		
MODEL	ALT	A
52025/62025	FAN ALT 1	361
	FAN ALT 2	404



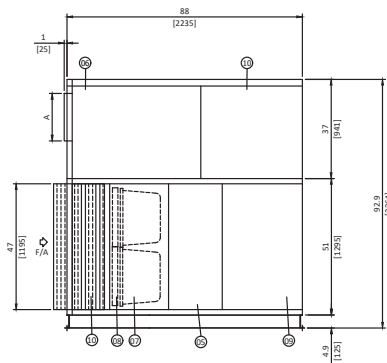
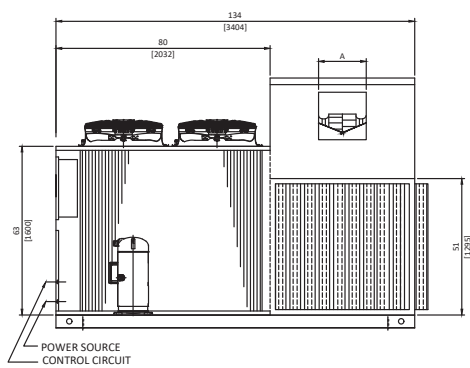
ALL DIMENSIONS ARE IN INCHES[mm]

## PAC4A Model - 52030/52035 & 62030/62035



- LEGEND
- 1- CONTROL PANEL
  - 2- COMPRESSOR
  - 3- CONDENSER FAN
  - 4- CONDENSER COIL
  - 5- EVAPORATOR COIL + ELIMINATOR SECTION
  - 6- EVAPORATOR FAN & MOTOR SECTION
  - 7- 15" BAG FLAT FILTER
  - 8- 1" FLAT FILTER
  - 9- PLENUM SECTION
  - 10- F/AIR BOX WITH SAND TRAP LOUVER

DIMENSIONS [mm]		
MODEL	ALT	A
52030/62030	FAN ALT 1	404
	FAN ALT 2	453
52035/62035	FAN ALT 1	404
	FAN ALT 2	453



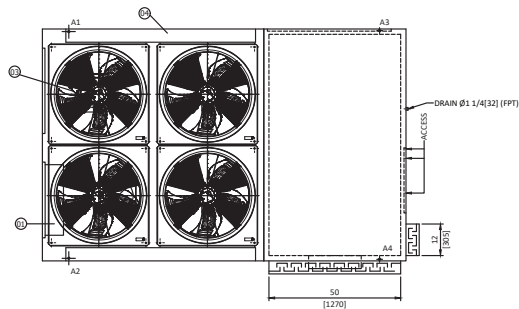
ALL DIMENSIONS ARE IN INCHES[mm]

- Note :**
1. Drawings are not contractually binding.
  2. Before designing an installation, consult the certified drawings, available on request.
  3. For single unit and multiple unit installation or unit is installing near to the wall, please refer to the recommended clearance drawings (refer page no:34).
  4. Dimensions shown in standard drawing are suitable only for open trailers. In case of closed container please consult SKM as the unit dimension will change.





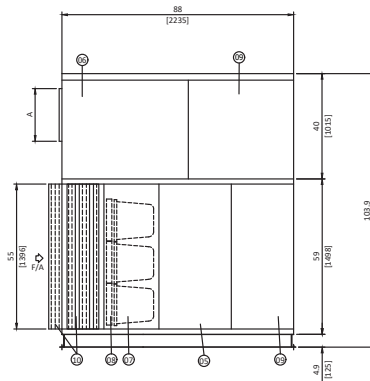
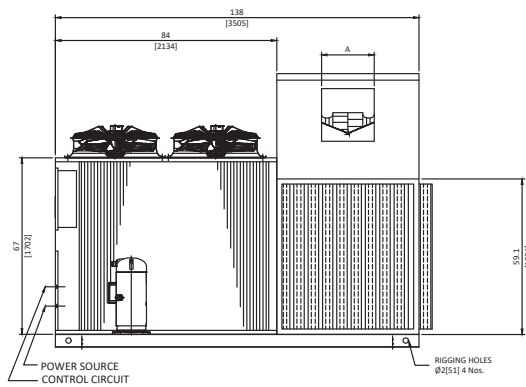
PAC4A Model - 52040 & 62040



LEGEND

- 1- CONTROL PANEL
- 2- COMPRESSOR
- 3- CONDENSER FAN
- 4- CONDENSER COIL
- 5- EVAPORATOR COIL + ELIMINATOR SECTION
- 6- EVAP. FAN & MOTOR SECTION
- 7- 15" BAG FLAT FILTER
- 8- 1" FLAT FILTER
- 9- PLENUM SECTION
- 10- FAIR BOX WITH SAND

DIMENSIONS [mm]		
MODEL	ALT	A
52040/62040	FAN ALT 1	453
	FAN ALT 2	507



ALL DIMENSIONS ARE IN INCHES[mm]

Note :

1. Drawings are not contractually binding.
2. Before designing an installation, consult the certified drawings, available on request.
3. For single unit and multiple unit installation or unit is installing near to the wall, please refer to the recommended clearance drawings (refer page no:34).
4. Dimensions shown in standard drawing are suitable only for open trailers. In case of closed container please consult SKM as the unit dimension will change.

## Weights and Loading Points

### 50 Hz Models - Standard

PAC4A	UOM	LOADING POINT				TOTAL WEIGHT
		A1	A2	A3	A4	
51006	lbs	264	262	407	418	1351
	kg	120	119	185	190	613
52008	lbs	286	349	450	488	1573
	kg	130	158	204	222	713
52010	lbs	396	345	479	471	1692
	kg	180	157	217	214	767
52011	lbs	435	424	540	559	1957
	kg	197	192	245	253	888
52013	lbs	460	444	548	573	2024
	kg	209	201	248	260	918
52015	lbs	593	515	687	716	2511
	kg	269	234	311	325	1139
52018	lbs	606	513	710	721	2550
	kg	275	233	322	327	1157
52020	lbs	613	570	820	852	2855
	kg	278	259	372	386	1295
52023	lbs	672	637	799	825	2933
	kg	305	289	362	374	1330
52025	lbs	718	696	872	914	3201
	kg	326	316	396	415	1452
52030	lbs	899	812	1005	1031	3748
	kg	408	369	456	468	1700
52035	lbs	934	919	995	1130	3978
	kg	424	417	451	512	1805
52040	lbs	1056	1042	972	1106	4175
	kg	479	472	441	502	1894

Table 36

### 60 Hz Models - Standard

PAC4A	UOM	LOADING POINT				TOTAL WEIGHT
		A1	A2	A3	A4	
61006	lbs	254	240	406	417	1317
	kg	115	109	184	189	597
62008	lbs	286	349	450	488	1573
	kg	130	158	204	222	713
62010	lbs	364	314	477	469	1624
	kg	165	143	216	213	737
62011	lbs	433	421	540	558	1952
	kg	196	191	245	253	886
62013	lbs	460	444	548	573	2024
	kg	209	201	248	260	918
62015	lbs	551	475	680	709	2414
	kg	250	215	308	322	1095
62018	lbs	606	513	710	721	2550
	kg	275	233	322	327	1157
62020	lbs	609	568	819	852	2848
	kg	276	258	372	386	1292
62023	lbs	665	628	797	823	2913
	kg	301	285	362	373	1321
62025	lbs	713	693	872	914	3191
	kg	323	314	395	414	1448
62030	lbs	807	777	987	1024	3595
	kg	366	353	448	465	1631
62035	lbs	845	885	978	1123	3830
	kg	383	402	443	509	1737
62040	lbs	1048	1038	970	1105	4162
	kg	475	471	440	501	1888

Table 37



## Weights and Loading Points 50 Hz Models - Sand Trap Louver

PAC4A	UOM	LOADING POINT				TOTAL WEIGHT
		A1	A2	A3	A4	
51006	lbs	264	262	407	441	1373
	kg	120	119	185	200	623
52008	lbs	286	349	450	519	1603
	kg	130	158	204	235	727
52010	lbs	396	345	479	502	1722
	kg	180	157	217	228	781
52011	lbs	435	424	540	595	1994
	kg	197	192	245	270	904
52013	lbs	460	444	548	610	2061
	kg	209	201	248	276	935
52015	lbs	593	515	687	762	2557
	kg	269	234	311	345	1160
52018	lbs	606	513	710	767	2596
	kg	275	233	322	348	1177
52020	lbs	613	570	820	910	2913
	kg	278	259	372	413	1321
52023	lbs	672	637	799	882	2990
	kg	305	289	362	400	1356
52025	lbs	718	696	872	983	3270
	kg	326	316	396	446	1483
52030	lbs	899	812	1005	1104	3821
	kg	408	369	456	501	1733
52035	lbs	934	919	995	1203	4052
	kg	424	417	451	546	1838
52040	lbs	1056	1042	972	1139	4208
	kg	479	472	441	517	1909

Table 38

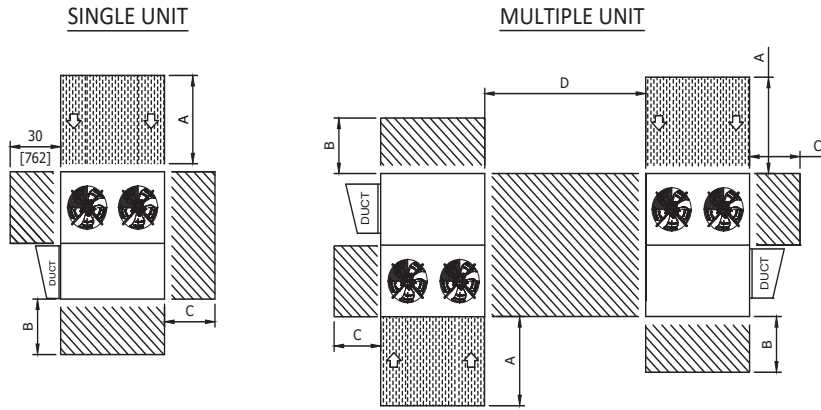
## 60 Hz Models - Sand Trap Louver

PAC4A	UOM	LOADING POINT				TOTAL WEIGHT
		A1	A2	A3	A4	
61006	lbs	254	240	406	439	1339
	kg	115	109	184	199	608
62008	lbs	286	349	450	519	1603
	kg	130	158	204	235	727
62010	lbs	364	314	477	499	1654
	kg	165	143	216	226	750
62011	lbs	433	421	540	595	1989
	kg	196	191	245	270	902
62013	lbs	460	444	548	610	2061
	kg	209	201	248	276	935
62015	lbs	551	475	680	755	2460
	kg	250	215	308	342	1116
62018	lbs	606	513	710	767	2596
	kg	275	233	322	348	1177
62020	lbs	609	568	819	909	2906
	kg	276	258	372	412	1318
62023	lbs	665	628	797	881	2971
	kg	301	285	362	400	1348
62025	lbs	713	693	872	983	3260
	kg	323	314	395	446	1479
62030	lbs	807	777	987	1097	3668
	kg	366	353	448	498	1664
62035	lbs	845	885	978	1196	3904
	kg	383	402	443	543	1771
62040	lbs	1048	1038	970	1105	4162
	kg	475	471	440	501	1888

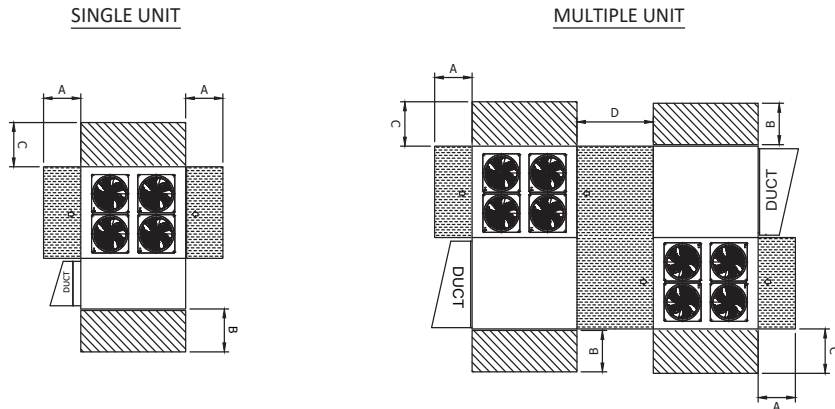
Table 39

## Recommended Clearances

### UNIT INSTALLATION



MODELS: PAC4A 51006-52025 & 61006-62025



MODELS: PAC4A 52030-52040 & 62030-62040

MODEL PAC4A	All Dimensions are Inches [mm]			
	A	B	C	D
51006 / 61006	36	30	60	45
	[915]	[762]	[1524]	[1143]
52008 / 62008	48	30	60	45
	[1220]	[762]	[1524]	[1143]
52010 / 62010	48	30	60	45
	[1220]	[762]	[1524]	[1143]
52011 / 62011	48	34	70	45
	[1220]	[864]	[1778]	[1143]
52013 / 62013	48	38	70	45
	[1220]	[966]	[1778]	[1143]
52015 / 62015	60	42	78	45
	[1524]	[1067]	[1982]	[1143]
52018 / 62018	60	42	78	45
	[1524]	[1067]	[1982]	[1143]
52020/62020	72	42	84	45
	[1829]	[1067]	[2134]	[1143]
52023 / 62023	72	42	84	45
	[1829]	[1067]	[2134]	[1143]
52025 / 62025	72	44	84	45
	[1829]	[1118]	[2134]	[1143]
52030 / 62030	60	44	70	90
	[1524]	[1118]	[1778]	[2286]
52035 / 62035	60	44	70	90
	[1524]	[1118]	[1778]	[2286]
52040 / 62040	64	44	78	96
	[1626]	[1118]	[1982]	[2439]

Table 40



# GUIDE SPECIFICATIONS

## GENERAL

Packaged Air Conditioners shall be composed of compressor(s), condenser & evaporator coils with fans, refrigerant piping, electrical components & enclosing cabinet in one piece. These units shall be factory assembled, internally wired, fully refrigerant charged with R410A, tested under strict quality standards & are suitable for outdoor installation on rooftop or ground level with ducted system.

## COMPRESSOR(S)

Compressor shall be hermetic scroll, refrigerant gas cooled furnished with crankcase heater, and shall be mounted on rubber isolators.

## CONDENSER COIL(S)

Coil shall be air cooled with integral sub-cooling circuit, constructed of seamless copper tubes 3/8" OD mechanically bonded to aluminium or copper with corrugated cross-wave fins with maximum 14 FPI (1.8mm) or 16 FPI (1.6MM) spacing. Coil shall be tested against leakage by pressurizing air at 715psig (4930kPa) in coil, under water, cleaned and dehydrated at the factory.

## CONDENSER FAN(S)

The machine shall be furnished with direct driven propeller type discharging air upward condenser fans. Fans shall be constructed of corrosion resistant blades such as heavy gauge aluminum. The fan and drive shall be held in proper alignment.

Fan assemblies shall be provided with heavy gauge, rust resistant steel wire fan guard. All condenser fans shall be individually, statically, and dynamically balanced for vibration free Operation.

Motors shall be Totally Enclosed Air Over, Class-F insulation, IP-54 or IP-55 Protected depending on models and factory wired to unit control panel.

## EVAPORATOR COIL

Evaporator coil shall be constructed of seamless copper tubes 3/8" OD mechanically bonded to aluminium or copper corrugated crosswave fins with maximum 14 FPI (1.8mm) spacing.

Coil consists of headers of seamless copper tubing, expansion valve(s) & multi-circuited distributor(s).

These coils shall be tested against leakage by air pressure of 450psig (3103kPa) under water. cleaned & dehydrated at the factory. Coil shall conform to AHRI-410.

Evaporator coil section shall be provided with moisture eliminators to avoid water droplet carryover.

## EVAPORATOR FAN & DRIVE

Fans of evaporators shall be backward curved, double inlet double width (DIDW), centrifugal type, statically & dynamically balanced, mounted on a single heavy duty shaft with lifetime

lubricated bearings and belt driven by V belt with an adjustable variable pitch motor pulley.

Motor shall be Totally Enclosed Fan Cooled (TEFC), 2 poles or 4 poles, class-F insulated, minimum IP55 protection & wired to unit control panel.

## REFRIGERANT PIPING

The refrigerant circuit piping shall be fabricated from ACR grade copper piping, with 1 & 2 refrigeration circuits, each liquid line shall include, filter drier and expansion valve.

Suction line shall be insulated with 1/2" (12mm) wall thickness enclosed cell pipe insulation with maximum K factor 0.28 Btu.in /ft<sup>2</sup>.h.°F. (0.040 W/mK).

Piping shall have hot gas bypass system as standard for PAC4A series on the lead compressor.

## CASING AND STRUCTURE

Unit casing shall be made of zinc coated galvanized steel sheets conforming to JIS-G3302 and ASTM A653 which shall be phosphatized and then electrostatically dry powder coated of approx.60 microns to provide an extremely tough, scratch resistance, excellent anticorrosive protection that can pass 1000 hrs in 5% salt spray testing at 95°F (35°C) and 95% relative humidity as per ASTM B117.

Evaporator section shall be sealed with vinyl gaskets and completely insulated faced with black glass tissue (BGT) heavy density, fire retardant, 32 Kg/m<sup>3</sup> density having Max. K factor 0.23 Btu.in /ft<sup>2</sup>.h.°F (0.033 W/mK) and permanent odorless fibre glass insulation. Evaporator section shall be double skin.

## FILTER SECTION

Two stages of filtration shall be provided:

1- Flat Filter Section incorporating 1" (25mm) thick is provided as standard and 2" (50mm) thick filter having an average arrestance efficiency of 54% as per ASHRAE Standard 52.1 or equivalent can be provided as an option.

2- Bag filter section incorporating 15" deep bag filter F8.

## CONTROL PANEL

The panel shall be factory wired and confirm to IP-54 requirements. Control panel shall contain compressor and motor starting contactors, electronic control board for unit operation, compressor anti-recycle time delay, control on/off switch, control circuit breaker and power, 24V digital thermostat, duct temperature sensor & control terminal blocks. High and Low pressure switches should be provided for protection.





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