

R-134a

PACV-S Series

Packaged Air Conditioners



Range 7 TR to 137 TR
(26 kW to 481 kW)



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we cool it*



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Award winner

SKM Packaged Air Conditioning Units PACV Series - R-134a

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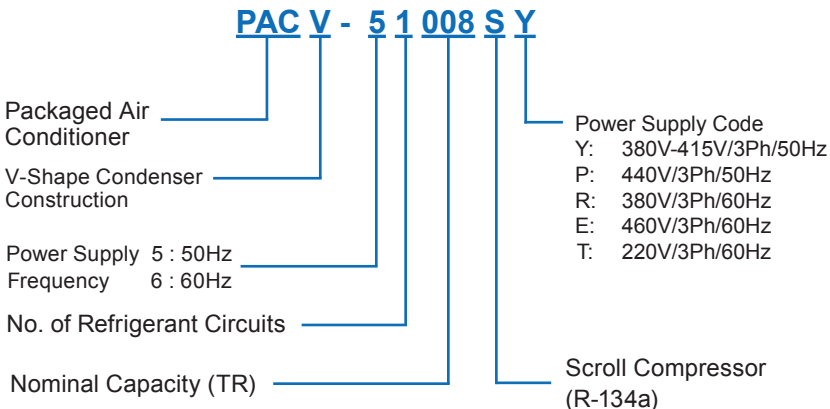
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Legend

The following abbreviations are used throughout this manual:

BPF By-pass Factor	MBh BTUH x 1000
cfm Cubic feet per minute	Ph Phase
EER Energy Efficiency Ratio	Pa Pascal
Hz Hertz	PD Pressure Drop
in.wg inches of water gauge	PI Power Input
kW Kilowatt	RPM.....Revolutions per Minute
kg Kilogram	TR Tons of Refrigeration = 3.517 kW
lbs Pounds weight (British units)	V Volts
L/S Liters per second	FPI..... Fins per Inch

Nomenclature



Introduction

SKM **PACV-S** series Packaged Air Conditioners are designed and manufactured to meet the requirements of the Gulf's severe climatic conditions and are built specifically for outdoor installations, either on ground or roof level.

The **PACV-S** Packaged Air Conditioners are ideal for warehouses, large halls, schools, mosques, or wherever the requirement is for a heavy duty unit with a hermetic scroll compressor.

PACV-S Series Air cooled package (hermetic scroll) are available in 52 models covering nominal capacity ranges from 7 TR – 137 TR (26 kW to 481 kW) in 50Hz and 60Hz.

PACV-S units are designed to operate in a wide ambient temperature range from 50°F (10°C) to 120°F (48.9°C) and even lower if an optional head pressure control system is provided.

PACV-S series Packaged Air Conditioners are self contained units consisting of individual or tandem hermetic compressor(s), condenser coil(s), evaporator coil, expansion valve(s), connecting piping and all necessary liquid line accessories & safety controls.

PACV-S units are designed and rated in accordance with AHRI-210/240 and 340/360 standards.

PACV-S Series Packaged Air Conditioners are completely assembled, internally wired, charged with R-134a refrigerant at factory, tested before despatch and ready for installation. All that is required on site is connecting ducting and power supply. This greatly reduces installation work and costs. They are designed for ducted systems which will enable them to be installed on roof tops or on the ground.

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.

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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.

SKM Packaged Air Conditioning Units PACV Series - R-134a

General Features

The **PACV-S** Series Packaged Air Conditioners is yet another unique series from SKM incorporating a high efficiency cooling coil, heavy duty evaporator blower and motor resulting in an extremely rugged, long-life, energy efficient, self-contained unit that will provide cooling at higher efficiency over a long and extended life. Compared to the traditional units available in the market, the **PACV-S** series packaged units are very low in energy consumption.

The flexibility of the **PACV-S** series is ideal for consideration on special applications including:

- High efficiency totally sealed hermetic scroll compressor.
- Totally enclosed, Class F insulated, IP55 protected 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.
- IP 54 Electrical panel.
- Factory installed, advanced and user friendly microprocessor based control system.
- Interface capability with major BMS protocols (option).

All of these flexibilities cannot be cataloged nor all the possible options listed. They are available and SKM has over 38 years of experience in designing and building such units to meet the most stringent requirements of most applications. For your special requirements please consult SKM.

Component Features

Compressor

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

- High Efficiency.
- Quiet operation, Low Sound levels.
- Compact and light .
- Limited wear.
- 70% fewer moving parts than comparably sized reciprocating compressors
- Unique ability to handle liquid refrigerant.
- Suction gas motor cooling.
- Centrifugal oil pumps with filter and magnet.
- Brazed fittings or Rotalock as options.
- Two refrigerant circuits on larger units provides efficient part load.

Parallel Operation

A parallel compressors installation, with common suction line and common discharge line, gives a reduced operating cost through greater control of capacity and power consumption. This is achieved by staggering compressor switch-on sequences that allow the parallel system to match its power with the capacity needed. By switching-off individual compressor from parallel installation, while other compressor is operating 100%, the improved part load efficiency can be achieved. The specially developed and adopted oil equalization system ensures correct compressors operation, oil balancing between compressors and reliability.

Condensers

Condenser coils are manufactured of seamless copper tubes mechanically bonded to aluminum fins to ensure optimum heat transfer.



Condenser Coil

All coils are tested against leakage by air pressure of 450 psig (3100 kPa) under water. All standard coils are 2,3 or 4 rows/14 FPI, 3/8" (9.5 mm) O.D. tubes. An integral subcooling circuit is provided to increase the cooling capacity, without additional operating cost.

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

- Copper fins.
- Electrotinned Copper Fins.
- Copper finned coils with electro-tinned after manufacturing.
- 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 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.

SKM **PACV-S** series, all models, are restricted to a 14FPI (1.8 mm) fin spacing condenser coil. Gulf dust storms and the general level of available maintenance in Gulf countries ensures this condenser coil design shall provide long life and maintenance-free operation with the least possibility operational blockage on the condenser. Ample condenser surface and sensible air flow across the condenser ensures a low temperature differential between condensing temperature and the high Gulf ambients making the **PACV-S** packaged unit perform efficiently and durably.

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Condenser Fans

Condenser fans are propeller type, aluminium alloy blades, directly driven by electric motors.

Motors are Totally Enclosed Air Over (TEAO) six pole with class 'F' insulation and minimum IP55 protection.



Condenser Fan Motor

The TEAO and class 'F' insulation features ensure long life and are unique for SKM. The motors are factory wired, using wires specially selected for high ambients operation, to unit control panel where the motor contactors are located to control the operation of these motors.

The condenser fans are individually statically and dynamically balanced at the factory. Complete fan assembly is provided with suitable acrylic coated fan guard.

Evaporator

Evaporator coils are 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 300 psig (2068 kPa) 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.
- Electroplated Copper fins.
- Copper finned coils with electro-tinned after manufacturing.
- 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 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 thermostatic 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. Requirements for higher face velocities can be handled by use of moisture eliminators to avoid carryover.

Fan Section

Fans in the **PACV-S** units are selected for the best sound characteristics based on maximum fan efficiency. More than one arrangement of evaporator fans are used in the **PACV-S** series packaged units due to the wide range of air flow rates.

Commonly, all fans are double inlet, double width, centrifugal type with forward curved impellers provide the combination of efficiency and quietness of operation. All fans are statically and dynamically balanced, belt driven by motor sizes up to **15 kW** are provided with adjustable pitch pulleys as standard. Above **15 kW** motor sizes are equipped with fixed pitch pulleys as standard and adjustable pitch pulleys are option. Specify VPP.

Single fan is used for **PACV-51008S**, **PACV-51010S**, **PACV-61009S** & **PACV-61012S** models. Models **PACV-51014S**~**PACV-52055S** & **PACV-61018S**~**PACV-62066S** are equipped with two fans. These fans are mounted on a single heavy duty shaft driven by a single electric motor. Shaft end insert into oversized, tapered lock self aligning long life bearings. The motor is mounted on an adjustable base, so that belt tension can be easily adjusted.

Models **PACV-52065S** and **PACV-62076S** onwards, use single fan assembly, which has maximum strength, high performance, quietness and reliability. These fans use self aligned ball or pillow block bearings that are greased for life. Pillow block bearings are provided with re-greasing fittings. The motor is mounted on an adjustable base, so that belt tension can be easily adjusted. The complete fan-motor drive assembly is mounted on a floating sub-base. In order to limit transmission of noise and vibration, the complete fan motor sub-base assembly is mounted on anti-vibration mounts. Flexible connection is provided between fan discharge and casing panel to avoid transmission of vibration to the connecting duct.

The **optional** modular construction units for models **PACV-51008S**~**PACV-52055S** & **PACV-61009S**~**62066S** are also using the same fan specifications as mentioned above.

The electric motors are foot mounted, 4 pole, totally enclosed fan cooled (TEFC), IP-55 protected with Class F insulation.

Drive package is factory selected for the medium air flow rate as shown in the capacity ratings. Alternative drive packages to meet specific job or client requirements can be provided.

Refrigerant Circuit

PACV-S series comes complete, as standard, with correctly sized and piped refrigerant lines including sight glass, filter drier, thermostatic expansion valve, solenoid valve, shut-off valve, and a full operating charge of R-134a in each circuit.

Piping is fabricated from ACR grade copper piping. Suction line is insulated with ½" (12mm) wall thickness closed cell pipe insulation.

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Filter Section

PACV-S series can be with a range of filter sections and filters to meet requirements for the most demanding applications.

- Flat or vee filter sections to accommodate 1" or 2" cleanable aluminium media filters can be provided.
- A bag filter section to house 22", 30" or 36" deep bag filters having efficiencies as desired can also be provided, as required. Filter sections come with latches to provide easy access for removal and for maintenance.
- On 100% fresh air applications an initial sand trap louvre can effectively minimize entrance of sand into the air stream.
- High efficiency mini pleat panel filters are available as an alternative for bag filter where space is limited. Filter sections come with latches to provide easy access for removal and for maintenance.

To order a sand trap louvre from SKM specify fresh air opening size with option ASL.

Casing/Structure

Designed for ease of handling and low cost to install. The **PACV-S** Air Cooled Packaged Units are factory assembled and mounted on a rigid base. The unit casing used in **PACV-S** Packaged units is made of zinc coated galvanized steel sheets conforming to JIS-G 3302 and ASTM A653 which is phosphatized then baked after an electrostatic powder coat of approximately 60 microns.

This finish and coating pass a 1000 hours in 5 % salt spray testing at 95°F (35°C) and 95% relative humidity as per ASTM B117. The entire casing panels are designed to be leak proof against rain and ensure rain cannot enter the **PACV** series packaged air conditioner interior. Evaporator section sealed by the use of vinyl gasketing material.

The evaporator section is insulated from all sides with black-neoprene faced heavy density 1" thick fiber glass insulation for models up to **PACV-52055S** & 62066S and 2" thick fiber glass insulation for models **PACV-52065S** & 62076S onwards. The insulation cum sound liner meets the fire requirements of NFPA90A and is secured with mechanical fasteners in addition to water resistant adhesive.

For applications requiring an inner skin in the evaporator section, option DSE provides 0.7 mm galvanized inner skin. Suitable isolation to ensure no cold-bridges and no condensation on the exterior of the units is provided. The condensate drain pan is heavily insulated to ensure that condensation may not occur. Stainless steel condensate drain pans are available on request.

Electrical Control Panel

The unit mounted control panel enclosure is fabricated out of heavy gauge sheet steel in phosphatized powder coated baked finish. The enclosure conforms to IP54 as per guidelines in IEC 529. A hinged access door and key-fastener is provided for easy access and security. The panel is factory wired in accordance with NEC 430 & 440, labelled, tagged and features 220V / 240V controls.

- All compressors are with DOL starting.
- Individual compressor, condenser fan motors and evaporator fan motor contactors.
- Motor protector circuit breaker for condenser and evaporator fan motors.
- Voltage monitoring module for protection against under voltage, over voltage, phase loss, phase reversal and phase unbalance of the incoming voltage.
- Control circuit breaker.
- Control circuit on/off switch.
- Microprocessor control boards.
- Control Relays.
- Power and control terminal blocks.

Microprocessor Controller



Microprocessor Controller

All **PACV-S** series package units are equipped with a full function microprocessor based controller as a standard feature. The controller is factory programmed for the control of evaporator fan, compressors and condenser fans. The controller comes with a built in keypad and display for simple but meaningful man machine interface. This controller provides complete operational control for the unit and has built-in auto diagnostic capability that can signal normal operation or alarm conditions as well as shutting down the unit or system if necessary.



Room Unit

The controller comes with a loose supplied sleek and elegant design room unit for installing in the conditioned space. Communication between unit controller and room unit is through two wire interface. **The communication cable should be 2 core, twisted pair, unshielded with stranded conductors. (As per KNX specification)** Maximum distance between room unit and controller can be 700 meters. The room unit has a built in sensor for measuring the room temperature. It transmits room temperature, set point, unit operating mode etc. to the unit controller. Control of the compressors is based on room temperature and the set point, as standard. **If unit control needs to be based on duct temperature, please specify during time of order.**

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The Main Features of the controller are as follows:

- Built in LCD display with back light.
- Roll & push knob and 3 function buttons.
- Battery backed up built in real time clock.
- Multiple authorization level to provide tight security for the control system.
- Capacity control based on room temperature or return air temperature.
- Alarm history.
- A sleek & elegant design room unit.

Display Information

SKM **PACV-S** series package units offer LCD display which allows the operator to access different parameters of the unit. Operator can view and change the unit parameters. The display information includes:

- Status
- Outputs
- Inputs
- Alarms
- Set points
- Password

System Control Philosophy

The unit may be enabled or disabled through the control on/off switch in the unit mounted control panel. Control is based on room temperature sensed by room unit. Evaporator fan motor starts first. Compressors will be staged based on the set point and actual room temperature. On an increase in room temperature, cooling stages will be added and on a decrease in room temperature, cooling stages will be removed from the system.

System Protection

The intelligent microprocessor based controller monitors all the safeties related to the unit and makes the necessary protections, by shutting down the entire unit or the effected circuit. The protection includes:

- Low suction pressure.
- High discharge pressure.
- High compressor motor temperature. (For compressors with internal motor protector).
- Compressor short cycling.
- Evaporator fan motor overload

BMS Connectivity (Optional)

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.

In addition, the **PACV-S** microprocessor can support the major BMS protocols such as BACnet, Modbus & LON. Extra hardware may be required depending on the protocol.

Optional Features

PACV-S series heavy duty packaged air - conditioners are available with a multitude of optional features which makes design and selection extremely easy and capable of matching the most stringent of requirements.

Alternative Condenser Material

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

- For Copper Fins, specify **(FC)**.
- For electrotinned Copper Fins only, specify **(CFT)**.
- For Copper Finned Coils electrotinned post manufacturing, specify **(FCT)**.
- For Pre-Coated aluminum fins, specify **(FAP)**.
- For Aluminum Fins with Aeris post Coat Protection, specify **(FAA)**.
- 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 Copper Fins, specify **(EFC)**.
- For electrotinned Copper Fins only, specify **(ECFT)**.
- For Copper Finned Coils electrotinned post manufacturing, specify **(EFCT)**.
- For Pre-coated aluminum fins, specify **(EFAP)**.
- For Aluminum Fins with Aeris post Coat Protection, specify **(EFAA)**.
- For Copper Fins with Aeris post Coat Protection, specify **(EFCA)**.

Condenser Coil Guard

(CGP)

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

Double Skin Evaporator

(DSE)

Inner skin of 0.7 mm galvanized sheet in the evaporator section provided with no cold bridges. Recommended for 100% fresh air applications.

Marine Paint

(MP)

To provide increased corrosion resistance coastal environments and offshore location.

Filter Section

(FFS/VFS/BFS)

PACV-S series can be with a range of filter sections and filters to meet requirements for the most demanding applications.

S.No	Filter Type	Option code		
		PACS 5106081006 to PACS-5205262065	PACS-5206062070 to PACS-5209582110	Modular Construction
Flat Filter Section with Media				
1	1" (25 mm) / 2" (50 mm) Thick Washable Aluminum G2	[FSP1]/[FSP2]		[FP1]/[FP2]
2	1" (25 mm) / 2" (50 mm) Thick Synthetic G3	[FSS1]/[FSS2]		[FVS1]/[FVS2]
Vae Filter Section with Media				
3	1" (25 mm) / 2" (50 mm) Thick Washable Aluminum G2	[FVP1]/[FVP2]		[FVP1]/[FVP2]
4	1" (25 mm) / 2" (50 mm) Thick Synthetic G3	[FVS1]/[FVS2]		[FVS1]/[FVS2]
Bag Filter Section with Media*				
5	15" (380 mm) deep bag filter	FSBQ-F8		FBGQ-F8
6	21" (534 mm) deep bag filter	FSBG-F8		FBG1-F8
7	30" (762 mm) deep bag filter	FSBG-F8		FBG2-F8
Pleated Filter Media*				
8	4" (100 mm) thick	FSMP-F8		FMP-F8

*F8 indicates the efficiency, For F9 change option code.

Table 1

SKM Packaged Air Conditioning Units PACV Series - R-134a

- Flat or vee filter sections to accommodate 1" or 2" cleanable aluminium media filters can be provided.
- A bag filter section to house 22", 30" or 36" deep bag filters having efficiencies as desired can also be provided, as required. Filter sections come with latches to provide easy access for removal and for maintenance.
- On 100% fresh air applications an initial sand trap louvre can effectively minimize entrance of sand into the air stream, sand trap louvre (ASL) available upon request.
- High efficiency mini pleat panel filters are available as an alternative for bag filter where space is limited. Filter sections come with latches to provide easy access for removal and for maintenance.

HEPA filters (FIHP)

Ultra high Absolute HEPA (High Efficiency Particulate Air filter with efficiency in excess of 99% when measured by using DOP (Di-Octyle Phthalate) method. In accordance with EN1882 standards. Eff : H13 (including section)

Sand trap louver (ASL)

To extract coarse sand prior to the entry in the unit

Galvanized Frame And Base (GFB)

Steel frame and base which are hot dip galvanized after manufacturing process. This is recommended for highly corrosive environments.

Pressure Gauges (SDG1)

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

Pressure Relief Valve (PRV)

To protect the unit from being over-pressurized.

Stainless Steel Drain Pan (SSP)

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

Stainless steel drain pan (Grade 304) (SDP)

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

Extra Shut Off Valve(s) (XFV)

To fully isolate refrigerant filter drier, additional shut-off valve(s) can be incorporated in the liquid line.

Rotalock Valves on compressors (RVC)

For additional facilitation of maintenance of unit.

Condenser & Evaporator Fans with polyglycoat coating (PGF)

To provide protection against corrosion for evaporator or condenser fans.

Anti Spark Fan and Belt (SPF)

For special applications like explosion proof units.

Isolated Condenser Fan Motors (CMS)

For elimination of extraneous noise and vibration from condenser fan motor, the motors are individually isolated from the frame

Condenser Fan motors with anti-condensation heaters built-in (CFMA)

Where application so requires.

Mixing Box (BMX)

With or without sand trap louvre and bird screen on fresh air Side.

Two inch insulation (2SG)

for evaporator section.

Modular Construction (MSTD)

Models **PACV** 51008S-53095S and **PACV** 61009S-63110S can be produced as modular constructions. Refer page no. 34-36 for more details.

Overlapped Evap. coil construction

Use overlapped evaporator coils to limit the height of the unit with frontal fan discharge. Available for models **PACV** 54100S to **PACV** 54125S & **PACV** 64120S to **PACV** 64145S, refer to page 37.

Electric Heating (HTR1)

Electric heating batteries are made up of finned heating elements, constructed from high quality 80/20 nickel chrome resistance wire centred 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 **PACV-S** microprocessor.

Following are the Standard Electrical Heating option kW rating, options other than those specified below can be provided on request. Consult SKM for details

PACV		Heater kW	Stages
51008-S	61009-S	15	2
51010-S	61012-S	18	
51014-S	61018-S	30	
52015-S	62018-S		
51017-S	61020-S		
52017-S	62020-S	36	
52020-S	62024-S		
52023-S	62028-S	48	
52026-S	62033-S		
52030-S	62036-S		
52032-S	62037-S		
52038-S	62046-S	60	
52045-S	62055-S		
52050-S	62060-S	90	
52055-S	62066-S		
52065-S	62076-S	126	
53070-S	63085-S		
53075-S	63090-S		
53080-S	63095-S	144	
53085-S	63100-S		
53090-S	63105-S		
53095-S	63110-S		
54100-S	64120-S	189	
54110-S	64130-S		
54115-S	64136-S		
54125-S	64145-S		6

Table 2

SKM Packaged Air Conditioning Units PACV Series - R-134a

Hot Gas Bypass System (GBP)

With solenoid to enable operation of a large sized unit at very low loads, during low load demand due to application requirements or where unit is selected to work on 100% fresh air applications.

Electronic Expansion Valve (EEV)

To provide energy saving benefits over mechanical thermostatic expansion valve (TXV).

Low Ambient Operation Kit (LAO)

For unit operation down to lower than normal gulf ambient. Please specify during the time of order.

IP 55 Control Panel (ICP)

Control Panel for special applications to meet IP55 requirements.

Main Isolator (without door interlock) (ISO)

For main power isolation. (consult SKM)

Control Transformer (CXT)

This option is necessary and available for PACS models rated for 440V/3PH/50Hz or 460V/3PH/60Hz or power supplies without neutral. When ordering for these voltages, this option must be ordered.

Voltage Monitoring Module as per DEWA (DVM)

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

Circuit Breaker for Compressor (CBC)

For those electrical specifications which require additional protection.

External Overload Protection (EOP)

For those electrical specification requires additional overload protection for the compressors.

Ammeter & Phase Selector switch (AMPC)

To indicate running AMPS of each compressor.

Ammeter & Phase Selector switch (AMPI)

To indicate running AMPS on main incomer of the unit.

Voltmeter & Selector Switch (VSS)

For incoming line voltage.

UL 1995 (UL-LISTED)

Unit construction are certified and in compliance of UL 1995 safety standards. Consult SKM for availability of selected models.

Soft Starter (SFS)

To reduce the starting current of compressors using reduced voltage starting method. Compressors will be started using electronic solid state soft starters that will ramp up the speed of the compressors to rated speed within few seconds thus reducing the mechanical & electrical stresses.

Suction Pressure read out Capability (SPC)

Additional transducer in suction line to display suction pressure in microprocessor.

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.

BMS Interface thru protocol (BMSP)

For interfacing the units with major BMS protocols such as BACNet, Modbus or LON. Extra hardware may be required depending on the protocol.

Pump Down Facility (PD)

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.

Options for Field Installations

Anti-vibration mounts (CAVM)

Recommended for roof mounted units or other locations in the vicinity of occupied spaces, where noise may be objectionable.

Hi-Lo Pressure Gauges (CSDG1)

Without piping or isolating pet cocks.

Duct Temperature Sensor (DTS)

In order to control the unit based on return/supply air duct temperature.

Special custom built units incorporating specially required features like units for larger capacities, anti-condensation resistance heaters embedded in evaporator motors, units can be manufactured on request. Consult SKM with detailed requirements.

Contact SKM for all such applications or requirements

Capacity Control Steps

The Standard Capacity Control Steps are shown below.

PACV	Standard	Number of steps	
51008-S	61009-S	100-0	1
51010-S	61012-S	100-0	1
51014-S	61018-S	100-0	1
52015-S	62018-S	100-50-0	2
51017-S	61020-S	100-0	1
52017-S	62020-S	100-56-0	2
52020-S	62024-S	100-50-0	2
52023-S	62028-S	100-58-0	2
52026-S	62033-S	100-50-0	2
52030-S	62036-S	100-55-0	2
52032-S	62037-S	100-50-0	2
52038-S	62046-S	100-75-50-25-0	4
52045-S	62055-S	100-79-50-29-0	4
52050-S	62060-S	100-75-50-25-0	4
52055-S	62066-S	100-77-50-27-0	4
52065-S	62076-S	100-75-50-25-0	4
53070-S	63085-S	100-86-67-53-33-19-0	6
53075-S	63090-S	100-83-67-50-33-17-0	6
53080-S	63095-S	100-83-67-50-33-17-0	6
53085-S	63100-S	100-85-69-53-34-18-0	6
53090-S	63105-S	100-85-68-53-35-18-0	6
53095-S	63110-S	100-85-68-51-34-17-0	6
54100-S	64120-S	100-88-75-63-50-38-25-13-0	8
54110-S	64130-S	100-88-76-65-51-39-25-14-0	8
54115-S	64136-S	100-89-75-64-51-40-26-13-0	8
54125-S	64145-S	100-88-75-63-50-38-25-13-0	8

Table 3

SKM Packaged Air Conditioning Units PACV Series - R-134a

Selection Procedure

PACV-S series packaged air-conditioners should be selected with care and using sound engineering judgement. Selections based on matching total capacity alone or air flow rate alone may not be proper. To meet requirements of a specific application, sample procedure for selection is given in examples below.

Application Requirements	Example 1: English Units	Example 2: SI Units
Required total cooling capacity.....	330.0 MBh.....	96.4 kW
Sensible cooling capacity.....	225.0 MBh.....	65.9 kW
Condenser entering air temp db.....	115°F.....	46°C
Evaporator entering air temp. db/wb.....	83/68°F.....	28.3/20.0°C
Evaporator air flow rate.....	11,200 cfm.....	5286 l/s
External static pressure.....	1.2 inwg.....	300 Pa
Electric power supply.....	380V/3PH/50Hz.....	380V/3PH/50Hz

Select **PACV-S** model, Evaporator fan motor size and find leaving db/wb conditions.

Selection Procedure:

Enter capacity ratings table (50Hz) at required condenser entering air temperature. Select a unit having total capacity equal or more than specified. Select unit model **PACV-52032-S**, by interpolation, at 11,200 cfm (5,286 l/s) and 68°F (20.0°C) wb. Unit will provide 332.8 MBh (97.5 kW) total cooling capacity, 236.6 MBh (69.3 kW) sensible cooling at 80°F (26.7°C) evaporator entering air bulb.

To calculate sensible capacity (SC2) at conditions other than 80°F (26.7°C) evaporator entering air dry bulb, use the formulae as shown

$$SC2 = SC1 + SCC$$

$$= SC1 + 0.0011 (1 - BPF)(EDB - 80) \times cfm$$

$$= 236.6 + 0.0011 (1 - 0.22)(83 - 80) \times 11,200$$

$$= 265.4 \text{ MBh}$$

$$SC2 = SC1 + SCC$$

$$= SC1 + 0.00123 (1 - BPF)(E_{db} - 26.7) \times l/s$$

$$= 69.3 + 0.00123 (1 - 0.22)(28.3 - 26.7) \times 5286$$

$$= 77.78 \text{ kW}$$

Observe the rule of signs if E_{db} above 80°F (26.7°C) SCC to be added to SC1. If E_{db} is less than 80°F (26.7°C) SCC to be subtracted.

where

- SC2 = corrected sensible capacity at given evap. entering air dry bulb °
- SC1 = sensible capacity at 80°F (26.7°C) DB evaporator entering air temperature
- SCC = sensible cooling correction
- BPF = bypass factor
- E_{db} = evaporator entering air dry bulb
- cfm & L/S = evaporator air flow rate

Calculate leaving evaporator air temperature

$$L_{db} = E_{db} - \frac{\text{Sensible capacity (MBH)}}{0.0011 \times cfm}$$

$$= 83 - \frac{265.4}{0.0011 \times 11,200}$$

$$= 61.4^\circ\text{F}$$

$$L_{db} = E_{db} - \frac{\text{Sensible capacity (kW)}}{0.00123 \times L/S}$$

$$= 28.3 - \frac{77.78}{0.00123 \times 5286}$$

$$= 16.3^\circ\text{C}$$

where

- E_{db} = Entering evaporator air dry bulb temperature
- L_{db} = Leaving evaporator air dry bulb temperature
- L_{wb} = Leaving air wet bulb temperature corresponding to enthalpy of air leaving evaporator coil

Calculate leaving air wet bulb

$$hL_{wb} = hE_{wb} - \frac{\text{total capacity (BTUH)}}{4.5 \times cfm}$$

$$= 32.3 - \frac{332.8 \times 1000}{4.5 \times 11,200}$$

$$= 25.69 \text{ Btu/lb}$$

$$= 58.8^\circ\text{F } L_{WB}$$

$$hL_{wb} = hE_{wb} - \frac{\text{total capacity (kW)} \times 1000}{1.2 \times L/S}$$

$$= 57.25 - \frac{97.5 \times 1000}{1.2 \times 5286}$$

$$= 41.8 \text{ kJ/kg}$$

$$= 14.9^\circ\text{C } L_{WB}$$

where

- hL_{wb} and hE_{wb} are leaving and entering air enthalpy respectively Btu/lb (kJ/kg)
- L_{WB} = Leaving air wet bulb temperature

To find out wet bulb temperatures corresponding to enthalpy of air refer to psychrometric chart or enthalpy of saturated air tables.

Selection of evaporator fan rpm and motor size

Enter fan performance table and interpolate for 11,200 cfm (5286 l/s) and 1.2 inwg. (300 Pa) ESP to get 978.1 rpm and 5.05 kW absorbed power.

$$\text{Motor power} = 1.2 \times \text{absorbed power}$$

$$= 1.2 \times 5.05 = 6.06 \text{ kW}$$

$$\text{Standard selected motor size} = 7.5 \text{ kW (10HP)}$$

SKM Computer selections are available for quick and proper selections

SKM Packaged Air Conditioning Units PACV Series - R-134a

ENGINEERING SPECIFICATIONS - 50 Hz

Model	PACV	51008-S	51010-S	51014-S	52015-S	51017-S	52017-S	52020-S	
Cooling Capacity (1)	TR	7.5	9.9	13.4	14.7	15.6	16.4	18.7	
	kW	26.3	34.7	47.2	51.5	55.0	57.6	65.7	
Cooling Capacity (2)	TR	6.8	9.0	12.4	13.2	14.4	14.8	17.0	
	kW	23.8	31.7	43.4	46.5	50.7	52.1	59.9	
Compressor	Type	Hermetic Scroll Compressor							
	Quantity	1	1	1	2	1	2	2	
	Oil Charge	US Gal	0.90	0.90	1.24	0.90/0.90	1.80	0.90/0.90	0.90/0.90
	CKT(1/2/3/4)	Liter	3.40	3.40	4.70	3.4/3.4	6.80	3.4/3.4	3.4/3.4
Condenser Coil	Type	Air cooled 2, 3or 4 rows 14 FPI (1.8mm) fin spacing Cu tubes Al fins							
	Face Area	ft ²	19.4	19.4	24.4	24.4	24.4	24.4	29.3
		m ²	1.8	1.8	2.3	2.3	2.3	2.3	2.7
Condenser Fan	Type	Propeller direct drive 960 RPM							
	Code / Quantity	-	628/2	628/2	723/2	723/2	723/2	723/2	823/2
	Air Flow Rate	cfm	9240	8920	13240	13240	13240	13240	17880
		l/s	4361	4210	6249	6249	6249	6249	8438
Condenser Motor	Type	Totally enclosed, air over Class F insulation, 6-pole, IP-55							
	Size / Quantity	kW	0.37/2	0.37/2	0.75/2	0.75/2	0.75/2	0.75/2	1.5/2
Evaporator Coil	Type	Direct expansion, Aluminum Fins, Copper Tubes							
	Face Area	ft ²	6.7	9.2	12.5	12.5	13.6	13.6	15.0
		m ²	0.6	0.9	1.2	1.2	1.3	1.3	1.4
Evaporator Fan	Type	Centrifugal double inlet double width belt drive							
	Code / Qty.	-	N12-S	N15-S	N12-D	N12-D	N12-D	N12-D	N15-D
	Air Flow Rate	cfm	3000	4000	6000	6000	6600	6600	7500
		l/s	1416	1888	2832	2832	3115	3115	3540
Evaporator Motor	Type	Totally enclosed, Class F insulation, IP55							
	Size	kW	1.5	1.5	3.0	3.0	4.0	4.0	4.0
Refrigerant (R - 134a) Operating Charge Per CKT (1/2/3/4)	lbs	12.1	16.8	22.8	12/12.2	23.1	14.7/11.2	14.7/14.7	
	kg	5.5	7.7	10.4	5.5/5.5	10.5	6.7/5.1	6.7/6.7	
Number of Refrigerant Circuits	-	1	1	1	2	1	2	2	
Unit Operating Weight	lbs	1050	1155	2050	2207	2176	2255	2394	
	kg	476	524	930	1001	987	1023	1086	

Model	PACV	52023-S	52026-S	52030-S	52032-S	52038-S	52045-S	52050-S	
Cooling Capacity (1)	TR	21.6	25.1	28.1	29.7	36.6	42.6	47.4	
	kW	75.9	88.4	98.9	104.5	128.8	149.7	166.8	
Cooling Capacity (2)	TR	19.8	23.2	25.9	27.4	33.3	39.0	43.7	
	kW	69.5	81.5	91.1	96.3	117.2	137.2	153.6	
Compressor	Type	Hermetic Scroll Compressor							
	Quantity	2	2	2	2	4	4	4	
	Oil Charge	US Gal	1.24/0.90	1.24/1.24	1.80/1.24	1.80/1.80	1.80/1.80	2.14/2.14	2.48/2.48
	CKT(1/2/3/4)	Liter	4.7/3.4	4.7/4.7	6.8/4.7	6.8/6.8	6.8/6.8	8.1/8.1	9.4/9.4
Condenser Coil	Type	Air cooled 2, 3 or 4 rows 14 FPI (1.8 mm) fin spacing Cu tubes Al fins							
	Face Area	ft ²	31.5	40.0	40.0	40.0	53.3	64.0	72.0
		m ²	2.9	3.7	3.7	3.7	5.0	5.9	6.7
Condenser Fan	Type	Propeller direct drive 960 RPM							
	Code / Qty.	-	823/2	823/3	823/3	823/3	829/3	823/4	823/4
	Air Flow Rate	cfm	18180	26160	26160	26160	32040	36480	37280
		l/s	8580	12346	12346	12346	15121	17217	17594
Condenser Motor	Type	Totally enclosed, air over Class F insulation, 6-pole, IP-55							
	Size / Qty.	kW	1.5/2	1.5/3	1.5/3	1.5/3	1.5/3	1.5/4	1.5/4
Evaporator Coil	Type	Direct expansion, Aluminum Fins, Copper Tubes							
	Face Area	ft ²	18.0	20.8	25.0	25.0	29.2	34.4	37.5
		m ²	1.7	1.9	2.3	2.3	2.7	3.2	3.5
Evaporator Fan	Type	Centrifugal double inlet double width belt drive							
	Code / Qty.	-	N15-D	N15-D	N15-D	N15-D	N18-D	N18-D	N18-D
	Air Flow Rate	cfm	8800	10416	11500	11500	14580	17000	18750
		l/s	4153	4916	5427	5427	6881	8023	8849
Evaporator Motor	Type	Totally enclosed, Class F insulation, IP55							
	Size	kW	4.0	5.5	7.5	7.5	7.5	11.0	11.0
Refrigerant (R - 134a) Operating Charge Per CKT (1/2/3/4)	lbs	20.1/14.4	21.4/21.4	19.1/24.6	22.2/22.2	28.6/28.6	33.7/33.7	36.1/36.1	
	kg	9.2/6.5	9.7/9.7	8.7/11.2	10.1/10.1	13.0/13.0	15.3/15.3	16.4/16.4	
Number of Refrigerant Circuits	-	2	2	2	2	2	2	2	
Unit Operating Weight	lbs	2553	3133	3227	3247	3649	4382	4707	
	kg	1158	1421	1464	1473	1655	1992	2135	

Table 4

Notes:

- Capacity ratings are based on AHRI Standard 340/360. Evaporator entering air conditions of 80°/67°F (27°/19.5°C) dry bulb/wet bulb and condenser entering air temperature of 95°F (35°C) dry bulb.
- Evaporator entering air conditions of 80°/67°F (27°/19.5°C) dry bulb/wet bulb and condenser entering air temperature of 115°F (46°C) dry bulb.
- Capacity is gross capacity which does not include the effect of evaporator fan motor heat.

SKM Packaged Air Conditioning Units PACV Series - R-134a

ENGINEERING SPECIFICATIONS - 50 Hz

Model	PACV	52055-S	52065-S	53070-S	53075-S	53080-S	53085-S	
Cooling Capacity (1)	TR	54.3	62.6	68.2	73.3	76.0	82.4	
	kW	191.1	220.3	240.0	257.7	267.1	289.9	
Cooling Capacity (2)	TR	50.0	57.6	62.4	67.3	69.6	75.8	
	kW	175.8	202.7	219.3	236.7	244.8	266.6	
Compressor	Type	Hermetic Scroll Compressor						
	Quantity	4	4	6	6	6	6	
	Oil Charge CKT(1/2/3/4)	US Gal Liter	3.03/3.03 11.5/11.5	3.59/3.59 13.6/13.6	2.14/2.14/2.14 8.1/8.1/8.1	2.48/2.48/2.48 9.4/9.4/9.4	2.48/2.48/2.48 9.4/9.4/9.4	3.03/3.03/2.48 11.5/11.5/9.4
Condenser Coil	Type	Air cooled 2, 3 or 4 rows 14 FPI (1.8 mm) fin spacing Cu tubes Al fins						
	Face Area	ft ²	72.0	72.0	97.5	97.5	97.5	97.5
		m ²	6.7	6.7	9.1	9.1	9.1	9.1
Condenser Fan	Type	Propeller direct drive 960 RPM						
	Code / Quantity	829/4	829/4	823/6	823/6	823/6	829/6	
	Air Flow Rate	cfm	42880	40920	54900	54900	54900	59340
l/s		20237	19312	25910	25910	25910	28005	
Condenser Motor	Type	Totally enclosed, air over Class F insulation, 6-pole, IP-55						
	Size / Quantity	kW	1.5/4	1.5/4	1.5/6	1.5/6	1.5/6	1.5/6
Evaporator Coil	Type	Direct expansion, Aluminum Fins, Copper Tubes						
	Face Area	ft ²	40.0	49.0	55.1	55.1	61.2	63.7
		m ²	3.7	4.6	5.1	5.1	5.7	5.9
Evaporator Fan	Type	Centrifugal double inlet double width belt drive						
	Code / Qty.	N18-D	N710-S	N800-S	N800-S	N800-S	N900-S	
	Air Flow Rate	cfm	18750	23000	25600	25600	28400	30000
l/s		8849	10855	12082	12082	13403	14158	
Evaporator Motor	Type	Totally enclosed, Class F insulation, IP55						
	Size	kW	11.0	15.0	15.0	15.0	15.0	15.0
Refrigerant (R - 134a) Operating Charge Per CKT (1/2/3/4)	lbs	56.9/56.9	72.2/72.2	51.8/51.8/51.8	53.5/53.5/53.5	56.0/56.0/56.0	71.8/71.8/61.5	
	kg	25.9/25.9	32.8/32.8	23.5/23.5/23.5	24.3/24.3/24.3	25.5/25.5/25.5	32.6/32.6/28.0	
Number of Refrigerant Circuits	-	2	2	3	3	3	3	
Unit Operating Weight	lbs	5058	7721	8759	9150	9317	9895	
	kg	2294	3502	3973	4150	4226	4488	

Model	PACV	53090-S	53095-S	54100-S	54110-S	54115-S	54125-S	
Cooling Capacity (1)	TR	87.3	90.9	98.1	105.7	110.9	118.4	
	kW	307.1	319.5	344.8	371.8	390.1	416.5	
Cooling Capacity (2)	TR	80.3	83.5	90.2	97.4	102.2	109.0	
	kW	282.4	293.8	317.1	342.7	359.3	383.5	
Compressor	Type	Hermetic Scroll Compressor						
	Quantity	6	6	8	8	8	8	
	Oil Charge CKT(1/2/3/4)	US Gal Liter	3.59/3.03/3.03 13.6/11.5/11.5	3.59/3.59/3.03 13.6/13.6/11.5	2.48/2.48/2.48/2.48 9.4/9.4/9.4/9.4	3.03/3.03/3.03/2.48 11.5/11.5/11.5/9.4	3.59/3.03/3.03/3.03 13.6/11.5/11.5/11.5	3.59/3.59/3.59/3.59 13.6/13.6/13.6/13.6
Condenser Coil	Type	Air cooled 2, 3 or 4 rows 14 FPI (1.8 mm) fin spacing Cu tubes Al fins						
	Face Area	ft ²	97.5	97.5	130.0	130.0	130.0	130.0
		m ²	9.1	9.1	12.1	12.1	12.1	12.1
Condenser Fan	Type	Propeller direct drive 960 RPM						
	Code / Qty.	829/6	829/6	829/8	829/8	829/8	829/8	
	Air Flow Rate	cfm	59340	59340	83360	79120	79120	79120
l/s		28005	28005	39342	37340	37340	37340	
Condenser Motor	Type	Totally enclosed, air over Class F insulation, 6-pole, IP-55						
	Size / Qty.	kW	1.5/6	1.5/6	1.5/8	1.5/8	1.5/8	1.5/8
Evaporator Coil	Type	Direct expansion, Aluminum Fins, Copper Tubes						
	Face Area	ft ²	67.5	71.9	73.7	76.2	80.0	85.0
		m ²	6.3	6.7	6.9	7.1	7.4	7.9
Evaporator Fan	Type	Centrifugal double inlet double width belt drive						
	Code / Qty.	N900-S	N900-S	N900-S	N900-S	N900-S	N900-S	
	Air Flow Rate	cfm	31500	33500	33500	35000	37000	40000
l/s		14866	15810	15810	16518	17462	18878	
Evaporator Motor	Type	Totally enclosed, Class F insulation, IP55						
	Size	kW	15.0	18.5	18.5	18.5	18.5	22.0
Refrigerant (R - 134a) Operating Charge Per CKT (1/2/3/4)	lbs	78.8/68.0/68.0	77.7/77.7/66.6	55.2/55.2/55.2	73.7/73.0/73.0/54.7	85.5/66.5/66.5/66.5	73.6/73.6/73.6/73.6	
	kg	35.8/31.0/31.0	35.3/35.3/30.3	25.1/25.1/25.1/25.1	33.2/33.2/33.2/24.9	38.8/30.2/30.2/30.2	33.3/33.3/33.3/33.3	
Number of Refrigerant Circuits	-	3	3	4	4	4	4	
Unit Operating Weight	lbs	10045	10236	12796	13223	13358	13566	
	kg	4556	4643	5804	5998	6059	6153	

Table 4 ends

Notes:

- Capacity ratings are based on AHRI Standard 340/360. Evaporator entering air conditions of 80°/67°F (27°/19.5°C) dry bulb/wet bulb and condenser entering air temperature of 95°F (35°C) dry bulb.
- Evaporator entering air conditions of 80°/67°F (27°/19.5°C) dry bulb/wet bulb and condenser entering air temperature of 115°F (46°C) dry bulb.
- Capacity is gross capacity which does not include the effect of evaporator fan motor heat.

SKM Packaged Air Conditioning Units PACV Series - R-134a

ENGINEERING SPECIFICATIONS - 60 Hz

Model	PACV	61009-S	61012-S	61018-S	62018-S	61020-S	62020-S	62024-S	
Cooling Capacity (1)	TR	8.7	11.5	15.7	17.1	18.2	19.1	21.9	
	kW	30.6	40.5	55.1	60.1	64.0	67.1	76.9	
Cooling Capacity (2)	TR	7.9	10.6	14.5	15.5	16.8	17.4	20.0	
	kW	27.9	37.2	50.8	54.6	59.0	61.2	70.4	
Compressor	Type	Hermetic Scroll Compressor							
	Quantity	1	1	1	2	1	2	2	
	Oil Charge	US Gal	0.90	0.90	1.24	0.90/0.90	1.80	0.90/0.90	0.90/0.90
	CKT(1/2/3/4)	Liter	3.40	3.40	4.70	3.4/3.4	6.80	3.4/3.4	3.4/3.4
Condenser Coil	Type	Air cooled 2, 3 or 4 rows 14 FPI (1.8 mm) fin spacing Cu tubes Al fins							
	Face Area	ft ²	19.4	19.4	24.4	24.4	24.4	24.4	29.3
		m ²	1.8	1.8	2.3	2.3	2.3	2.3	2.7
Condenser Fan	Type	Propeller direct drive 1150 RPM							
	Code / Quantity	-	628/2	628/2	723/2	723/2	723/2	723/2	823/2
	Air Flow Rate	cfm	11200	10820	15660	15660	15660	15660	21760
		l/s	5286	5106	7391	7391	7391	7391	10270
Condenser Motor	Type	Totally enclosed, air over Class F insulation, 6-pole, IP-55							
	Size / Quantity	kW	0.55/2	0.55/2	1.1/2	1.1/2	1.1/2	1.1/2	2.2/2
Evaporator Coil	Type	Direct expansion, Aluminum Fins, Copper Tubes							
	Face Area	ft ²	6.7	9.2	12.5	12.5	13.6	13.6	15.0
		m ²	0.6	0.9	1.2	1.2	1.3	1.3	1.4
Evaporator Fan	Type	Centrifugal double inlet double width belt drive							
	Code / Qty.	-	N12-S	N15-S	N12-D	N12-D	N12-D	N12-D	N15-D
	Air Flow Rate	cfm	3000	4000	6000	6000	6600	6600	7500
Evaporator Motor	Type	Totally enclosed, Class F insulation, IP55							
	Size	kW	1.5	2.2	3.0	3.0	4.0	4.0	4.0
	Refrigerant (R - 134a) Operating Charge Per CKT (1/2/3/4)	lbs	12.8	17.6	24.0	12.8/12.8	24.2	15.4/11.7	15.4/15.4
Number of Refrigerant Circuits	kg	5.8	8.0	10.9	5.8/5.8	11.0	7.0/5.3	7.0/7.0	
	-	1	1	1	2	1	2	2	
Unit Operating Weight	lbs	1067	1190	2078	2236	2205	2282	2438	
	kg	484.0	540.0	942.0	1014.0	1000.0	1035.0	1106.0	

Model	PACV	62028-S	62033-S	62036-S	62037-S	62046-S	62055-S	62060-S	
Cooling Capacity (1)	TR	25.2	29.3	32.7	34.5	42.8	50.4	56.1	
	kW	88.6	103.2	115.0	121.2	150.6	177.3	197.5	
Cooling Capacity (2)	TR	23.2	27.1	30.2	31.8	39.2	46.4	51.9	
	kW	81.4	95.5	106.1	111.9	137.8	163.1	182.4	
Compressor	Type	Hermetic Scroll Compressor							
	Quantity	2	2	2	2	4	4	4	
	Oil Charge	US Gal	1.24/0.90	1.24/1.24	1.80/1.24	1.80/1.80	1.80/1.80	2.14/2.14	2.48/2.48
	CKT(1/2/3/4)	Liter	4.7/3.4	4.7/4.7	6.8/4.7	6.8/6.8	6.8/6.8	8.1/8.1	9.4/9.4
Condenser Coil	Type	Air cooled 2, 3 or 4 rows 14 FPI (1.8 mm) fin spacing Cu tubes Al fins							
	Face Area	ft ²	31.5	40.0	40.0	40.0	53.3	64.0	72.0
		m ²	2.9	3.7	3.7	3.7	5.0	5.9	6.7
Condenser Fan	Type	Propeller direct drive 1150 RPM							
	Code / Qty.	-	823/2	823/3	823/3	823/3	829/3	823/4	823/4
	Air Flow Rate	cfm	22120	31860	31860	31860	38700	44400	45400
		l/s	10439	15036	15036	15036	18264	20954	21426
Condenser Motor	Type	Totally enclosed, air over Class F insulation, 6-pole, IP-55							
	Size / Qty.	kW	2.2/2	2.2/3	2.2/3	2.2/3	2.2/3	2.2/4	2.2/4
Evaporator Coil	Type	Direct expansion, Aluminum Fins, Copper Tubes							
	Face Area	ft ²	18.0	20.8	25.0	25.0	29.2	34.4	37.5
		m ²	1.7	1.9	2.3	2.3	2.7	3.2	3.5
Evaporator Fan	Type	Centrifugal double inlet double width belt drive							
	Code / Qty.	-	N15-D	N15-D	N15-D	N15-D	N18-D	N18-D	N18-D
	Air Flow Rate	cfm	8800	10416	11500	11500	14580	17000	18750
Evaporator Motor	Type	Totally enclosed, Class F insulation, IP55							
	Size	kW	4.0	5.5	7.5	7.5	7.5	11.0	15.0
	Refrigerant (R - 134a) Operating Charge Per CKT (1/2/3/4)	lbs	21.0/15.0	22.3/22.3	25.8/20.0	23.3/23.3	29.8/29.8	49.0/49.0	52.9/52.9
Number of Refrigerant Circuits	kg	9.6/6.8	10.2/10.2	11.7/9.1	10.6/10.6	13.6/13.6	22.3/22.3	24.0/24.0	
	-	2	2	2	2	2	2	2	
Unit Operating Weight	lbs	2635	3195	3296	3382	3724	4767	5282	
	kg	1195	1449	1495	1534	1689	2162	2396	

Table 5

Notes:

- Capacity ratings are based on AHRI Standard 340/360. Evaporator entering air conditions of 80°/67°F (27°/19.5°C) dry bulb/wet bulb and condenser entering air temperature of 95°F (35°C) dry bulb.
- Evaporator entering air conditions of 80°/67°F (27°/19.5°C) dry bulb/wet bulb and condenser entering air temperature of 115°F (46°C) dry bulb.
- Capacity is gross capacity which does not include the effect of evaporator fan motor heat.

SKM Packaged Air Conditioning Units PACV Series - R-134a

ENGINEERING SPECIFICATIONS - 60 Hz

Model	PACV	62066-S	62076-S	63085-S	63090-S	63095-S	63100-S	
Cooling Capacity (1)	TR	62.8	72.6	79.2	84.8	88.0	95.5	
	kW	220.8	255.2	278.6	298.2	309.4	336.0	
Cooling Capacity (2)	TR	57.9	66.8	72.8	78.2	81.0	88.2	
	kW	203.6	235.1	255.9	275.0	284.8	310.0	
Compressor	Type	Hermetic Scroll Compressor						
	Quantity	4	4	6	6	6	6	
	Oil Charge CKT(1/2/3/4)	US Gal	3.03/3.03	3.59/3.59	2.14/2.14/2.14	2.48/2.48/2.48	2.48/2.48/2.48	3.03/3.03/2.48
		Liter	11.5/11.5	13.6/13.6	8.1/8.1/8.1	9.4/9.4/9.4	9.4/9.4/9.4	11.5/11.5/9.4
Condenser Coil	Type	Air cooled 2, 3 or 4 rows 14FPI (1.8 mm) fin spacing Cu tubes Al fins						
	Face Area	ft ²	72.0	72.0	97.5	97.5	97.5	97.5
		m ²	6.7	6.7	9.1	9.1	9.1	9.1
Condenser Fan	Type	Propeller direct drive 1150 RPM						
	Code / Quantity	829/4	829/4	823/6	823/6	823/6	829/6	
	Air Flow Rate	cfm	51760	49560	66840	66840	66840	72000
l/s		24428	23390	31545	31545	31545	33980	
Condenser Motor	Type	Totally enclosed, air over Class F insulation, 6-pole, IP-55						
	Size / Quantity	kW	2.2/4	2.2/4	2.2/6	2.2/6	2.2/6	2.2/6
Evaporator Coil	Type	Direct expansion, Aluminum Fins, Copper Tubes						
	Face Area	ft ²	40.0	49.0	55.1	55.1	61.2	63.7
		m ²	3.7	4.6	5.1	5.1	5.7	5.9
Evaporator Fan	Type	Centrifugal double inlet double width belt drive						
	Code / Qty.	N18-D	N710-S	N800-S	N800-S	N800-S	N900-S	
	Air Flow Rate	cfm	18750	23000	25600	25600	28400	30000
l/s		8849	10855	12082	12082	13403	14158	
Evaporator Motor	Type	Totally enclosed, Class F insulation, IP55						
	Size	kW	15.0	15.0	15.0	15.0	15.0	15.0
Refrigerant (R - 134a) Operating Charge Per CKT (1/2/3/4)	lbs	61.8/61.8	78.7/78.2	56.3/56.3/56.3	57.9/57.9/57.9	61.0/61.0/61.0	77.2/77.2/66.2	
	kg	28.1/28.1	35.5/35.5	25.6/25.6/25.6	26.3/26.3/26.3	27.7/27.7/27.7	35.1/35.1/30.1	
Number of Refrigerant Circuits	-	2	2	3	3	3	3	
Unit Operating Weight	lbs	5470	8027	8964	9355	9540	10124	
	kg	2481	3641	4066	4243	4327	4592	

Model	PACV	63105-S	63110-S	64120-S	64130-S	64136-S	64145-S	
Cooling Capacity (1)	TR	101.1	105.2	113.4	122.3	128.3	136.9	
	kW	355.6	370.0	398.7	430.3	451.2	481.4	
Cooling Capacity (2)	TR	93.2	96.9	104.6	113.1	118.5	126.2	
	kW	327.8	340.7	368.0	397.7	416.6	443.9	
Compressor	Type	Hermetic Scroll Compressor						
	Quantity	6	6	8	8	8	8	
	Oil Charge CKT(1/2/3/4)	US Gal	3.59/3.03/3.03	3.59/3.59/3.03	2.48/2.48/2.48/2.48	3.03/3.03/3.03/2.48	3.59/3.03/3.03/3.03	3.59/3.59/3.59/3.59
		Liter	13.6/11.5/11.5	13.6/13.6/11.5	9.4/9.4/9.4/9.4	11.5/11.5/11.5/9.4	13.6/11.5/11.5/11.5	13.6/13.6/13.6/13.6
Condenser Coil	Type	Air cooled 2, 3 or 4 rows 14 FPI (1.8mm) fin spacing Cu tubes Al fins						
	Face Area	ft ²	97.5	97.5	130.0	130.0	130.0	130.0
		m ²	9.1	9.1	12.1	12.1	12.1	12.1
Condenser Fan	Type	Propeller direct drive 1150 RPM						
	Code / Qty.	829/6	829/6	829/8	829/8	829/8	829/8	
	Air Flow Rate	cfm	72000	72000	100880	96000	96000	96000
l/s		33980	33980	47610	45307	45307	45307	
Condenser Motor	Type	Totally enclosed, air over Class F insulation, 6-pole, IP-55						
	Size / Qty.	kW	2.2/6	2.2/6	2.2/8	2.2/8	2.2/8	2.2/8
Evaporator Coil	Type	Direct expansion, Aluminum Fins, Copper Tubes						
	Face Area	ft ²	67.5	71.9	73.7	76.2	80.0	85.0
		m ²	6.3	6.7	6.9	7.1	7.4	7.9
Evaporator Fan	Type	Centrifugal double inlet double width belt drive						
	Code / Qty.	N900-S	N900-S	N900-S	N900-S	N900-S	N900-S	
	Air Flow Rate	cfm	31500	33500	33500	35000	37000	40000
l/s		14866	15810	15810	16518	17462	18878	
Evaporator Motor	Type	Totally enclosed, Class F insulation, IP55						
	Size	kW	15.0	18.5	18.5	18.5	18.5	22.0
Refrigerant (R - 134a) Operating Charge Per CKT (1/2/3/4)	lbs	84.8/73.3/73.3	83.8/83.8/71.9	59.7/59.7/59.7	77.9/77.9/77.9/58.5	91.3/71.0/71.0/71.0	78.3/78.3/78.3/78.3	
	kg	38.6/33.3/33.3	38.1/38.1/32.7	27.1/27.1/27.1	35.4/35.4/35.4/26.6	41.5/32.3/32.3/32.3	35.6/35.6/35.6/35.6	
Number of Refrigerant Circuits	-	3	3	4	4	4	4	
Unit Operating Weight	lbs	10283	10486	13069	13502	13645	13868	
	kg	4664	4756	5928	6124	6189	6290	

Table 5 ends

Notes:

- Capacity ratings are based on AHRI Standard 340/360. Evaporator entering air conditions of 80°/67°F (27°/19.5°C) dry bulb/wet bulb and condenser entering air temperature of 95°F (35°C) dry bulb.
- Evaporator entering air conditions of 80°/67°F (27°/19.5°C) dry bulb/wet bulb and condenser entering air temperature of 115°F (46°C) dry bulb.
- Capacity is gross capacity which does not include the effect of evaporator fan motor heat.

SKM Packaged Air Conditioning Units PACV Series - R-134a

Field Connections

PACV-S series self-contained heavy duty air cooled packaged units are designed for minimum field interaction.

Power hook-ups and control wiring of room unit as per Electrical hook-up diagram is all that is required to electrically connect any model of **PACV-S** series .

Every **PACV-S** series package air conditioning unit requires, at most, field installed fused disconnect switches or circuit breakers, and room unit.

Refer below for a schematic representation of required field electrical hook-ups for a standard **PACV-S** series packaged air conditioning unit.

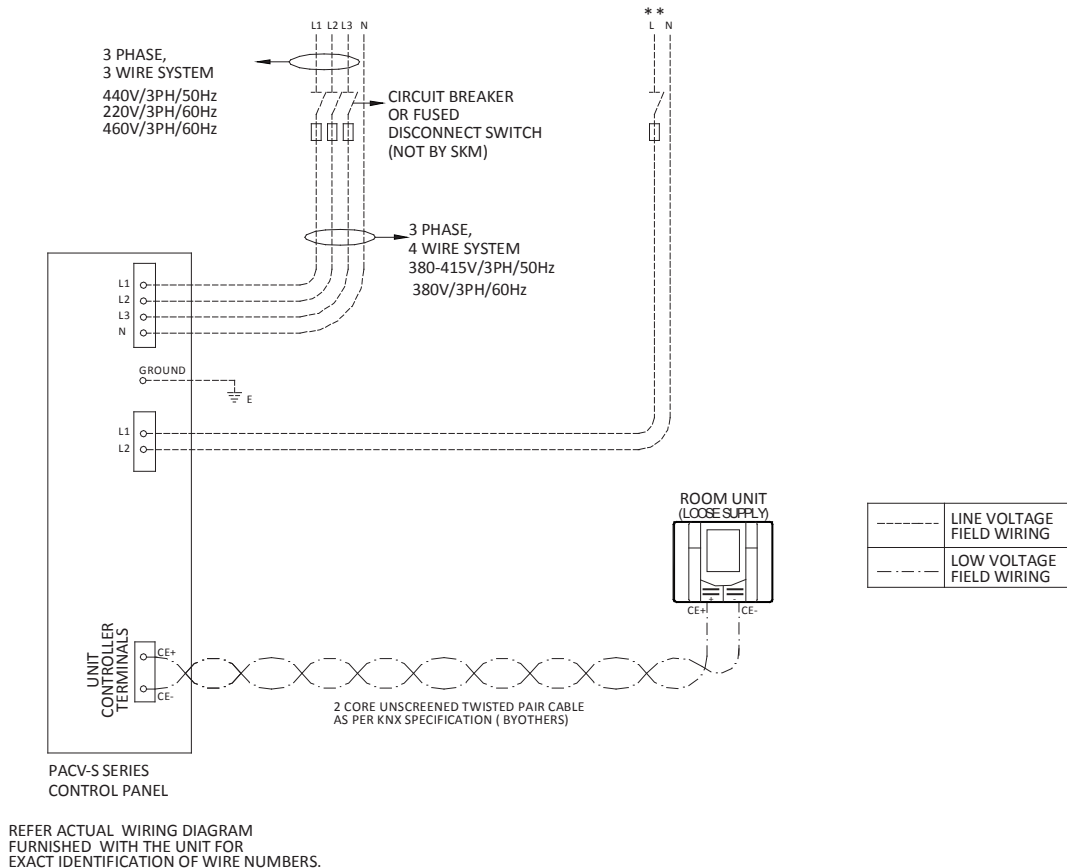
All field wiring must be done in accordance with applicable local and national codes.

For maximum recommended for fuse sizing and minimum circuit amps for cable sizing, see Page 25~27 of this bulletin.

Duct work should be connected with flexible connections to the **PACV-S** series. One or two drains suitably trapped, are required to be connected to the drain outlet of all models of **PACV-S** series.

The **PACV-S** series is then ready to provide cooling, on demand.

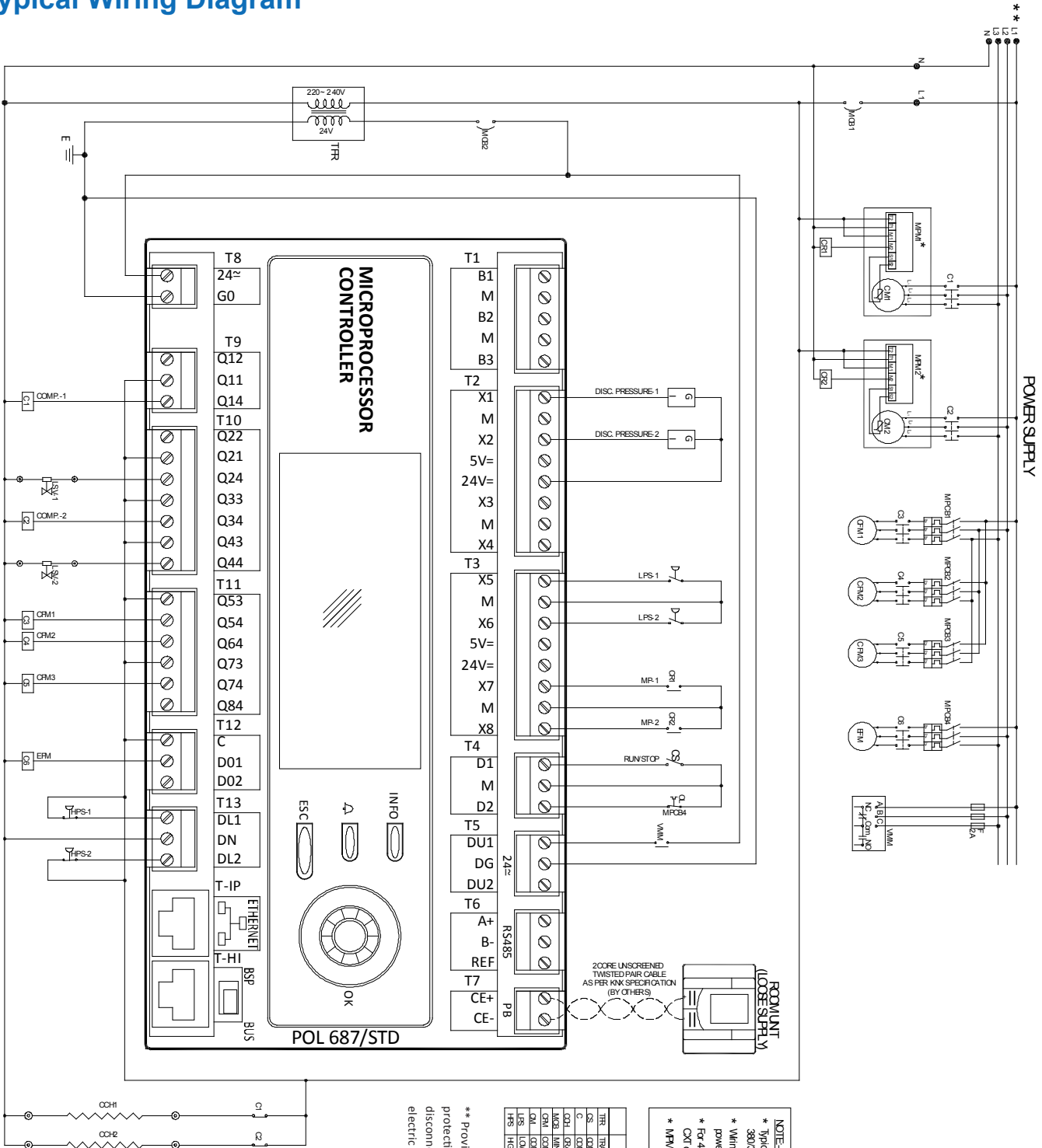
Field Wiring Requirement Schematic



** PACV-S SERIES UNITS RATED FOR 440V/3PH/50HZ, 460V/3PH/60HZ, OR POWER SUPPLIES WITH OUT NEUTRAL REQUIRE SEPARATE SOURCE OF CONTROL POWER SUPPLY THRU FIELD SUPPLIED & INSTALLED 15A/220V FUSED CONTROL DISCONNECT SWITCH OR ORDER WITH FACTORY BUILT IN OPTION ' CXT '.

SKM Packaged Air Conditioning Units PACV Series - R-134a

Typical Wiring Diagram



SKM Packaged Air Conditioning Units PACV Series - R-134a

ELECTRICAL DATA

POWER SUPPLY 380-415V/3Ph/50Hz

MODEL PACV	Unit Characteristic			Compressor			Condenser Fan Motor			Evaporator Fan Motor		
	MFA	MCA	ICF	QTY	RLA	LRA	QTY	FLA	LRA	QTY	FLA	LRA
51008-S	63	33	127	1	22	118	2	1.1	3.9	1	3.6	19.2
51010-S	80	43	183	1	30	174	2	1.1	3.9	1	3.6	19.2
51014-S	100	59	243	1	38	225	2	2.4	8.9	1	6.6	35.6
52015-S	100	61	158	1 + 1	22 + 22	118 + 118	2	2.4	8.9	1	6.6	35.6
51017-S	125	68	292	1	44	272	2	2.4	8.9	1	8.6	45.6
52017-S	125	73	216	1 + 1	30 + 22	174 + 118	2	2.4	8.9	1	8.6	45.6
52020-S	125	84	234	1 + 1	30 + 30	174 + 174	2	3.9	17.2	1	8.6	45.6
52023-S	160	94	285	1 + 1	38 + 30	225 + 174	2	3.9	17.2	1	8.6	45.6
52026-S	160	109	300	1 + 1	38 + 38	225 + 225	3	3.9	17.2	1	11.8	67.3
52030-S	200	121	351	1 + 1	44 + 38	272 + 225	3	3.9	17.2	1	16	105.6
52032-S	200	127	357	1 + 1	44 + 44	272 + 272	3	3.9	17.2	1	16	105.6
52038-S	200	155	305	2 + 2	30 + 30	174 + 174	3	3.9	17.2	1	16	105.6
52045-S	250	184	375	2 + 2	38 + 30	225 + 174	4	3.9	17.2	1	23.2	148.5
52050-S	250	200	391	2 + 2	38 + 38	225 + 225	4	3.9	17.2	1	23.2	148.5
52055-S	315	214	444	2 + 2	44 + 38	272 + 225	4	3.9	17.2	1	23.2	148.5
52065-S	315	234	465	2 + 2	44 + 44	272 + 272	4	3.9	17.2	1	31.6	221.2
53070-S	315	269	473	3 + 3	38 + 30	225 + 174	6	3.9	17.2	1	31.6	221.2
53075-S	400	293	497	3 + 3	38 + 38	225 + 225	6	3.9	17.2	1	31.6	221.2
53080-S	400	293	497	3 + 3	38 + 38	225 + 225	6	3.9	17.2	1	31.6	221.2
53085-S	400	306	550	2 + 4	44 + 38	272 + 225	6	3.9	17.2	1	31.6	221.2
53090-S	400	318	562	4 + 2	44 + 38	272 + 225	6	3.9	17.2	1	31.6	221.2
53095-S	400	330	574	5 + 1	44 + 38	272 + 225	6	3.9	17.2	1	37.9	284.2
54100-S	500	383	587	4 + 4	38 + 38	225 + 225	8	3.9	17.2	1	37.9	284.2
54110-S	500	402	646	3 + 5	44 + 38	272 + 225	8	3.9	17.2	1	37.9	284.2
54115-S	500	414	658	5 + 3	44 + 38	272 + 225	8	3.9	17.2	1	37.9	284.2
54125-S	500	438	682	4 + 4	44 + 44	272 + 272	8	3.9	17.2	1	44.2	331.6

Table 10

POWER SUPPLY 440V/3Ph/50Hz

MODEL PACV	Unit Characteristic			Compressor			Condenser Fan Motor			Evaporator Fan Motor		
	MFA	MCA	ICF	QTY	RLA	LRA	QTY	FLA	LRA	QTY	FLA	LRA
51008-S	63	33	126	1	22	118	2	1.1	3.9	1	3.1	16.6
51010-S	80	43	182	1	30	174	2	1.1	3.9	1	3.1	16.6
51014-S	100	59	243	1	38	225	2	2.8	9.2	1	5.7	30.8
52015-S	100	61	158	1 + 1	22 + 22	118 + 118	2	2.8	9.2	1	5.7	30.8
51017-S	125	68	291	1	44	272	2	2.8	9.2	1	7.4	39.3
52017-S	125	73	215	1 + 1	30 + 22	174 + 118	2	2.8	9.2	1	7.4	39.3
52020-S	125	84	233	1 + 1	30 + 30	174 + 174	2	4.3	17.6	1	7.4	39.3
52023-S	160	94	284	1 + 1	38 + 30	225 + 174	2	4.3	17.6	1	7.4	39.3
52026-S	160	109	299	1 + 1	38 + 38	225 + 225	3	4.3	17.6	1	10.2	58
52030-S	200	120	350	1 + 1	44 + 38	272 + 225	3	4.3	17.6	1	13.8	91.1
52032-S	200	126	356	1 + 1	44 + 44	272 + 272	3	4.3	17.6	1	13.8	91.1
52038-S	200	154	304	2 + 2	30 + 30	174 + 174	3	4.3	17.6	1	13.8	91.1
52045-S	250	183	374	2 + 2	38 + 30	225 + 174	4	4.3	17.6	1	20	128.1
52050-S	250	199	390	2 + 2	38 + 38	225 + 225	4	4.3	17.6	1	20	128.1
52055-S	315	212	443	2 + 2	44 + 38	272 + 225	4	4.3	17.6	1	20	128.1
52065-S	315	232	462	2 + 2	44 + 44	272 + 272	4	4.3	17.6	1	27.3	190.9
53070-S	315	267	471	3 + 3	38 + 30	225 + 174	6	4.3	17.6	1	27.3	190.9
53075-S	400	291	495	3 + 3	38 + 38	225 + 225	6	4.3	17.6	1	27.3	190.9
53080-S	400	291	495	3 + 3	38 + 38	225 + 225	6	4.3	17.6	1	27.3	190.9
53085-S	400	304	548	2 + 4	44 + 38	272 + 225	6	4.3	17.6	1	27.3	190.9
53090-S	400	316	560	4 + 2	44 + 38	272 + 225	6	4.3	17.6	1	27.3	190.9
53095-S	400	328	571	5 + 1	44 + 38	272 + 225	6	4.3	17.6	1	32.7	245.2
54100-S	500	381	585	4 + 4	38 + 38	225 + 225	8	4.3	17.6	1	32.7	245.2
54110-S	500	400	644	3 + 5	44 + 38	272 + 225	8	4.3	17.6	1	32.7	245.2
54115-S	500	412	656	5 + 3	44 + 38	272 + 225	8	4.3	17.6	1	32.7	245.2
54125-S	500	436	679	4 + 4	44 + 44	272 + 272	8	4.3	17.6	1	38.2	286.1

Table 11

SKM Packaged Air Conditioning Units PACV Series - R-134a

ELECTRICAL DATA

POWER SUPPLY 380V/3Ph/60Hz

MODEL PACV	Unit Characteristic			Compressor			Condenser Fan Motor			Evaporator Fan Motor		
	MFA	MCA	ICF	QTY	RLA	LRA	QTY	FLA	LRA	QTY	FLA	LRA
61009-S	63	37	155	1	24	145	2	1.5	4.5	1	3.6	18.9
61012-S	100	54	207	1	37	196	2	1.5	4.5	1	4.9	25
61018-S	125	65	299	1	42	280	2	3.1	9.6	1	6.3	34
62018-S	100	67	188	1 + 1	24 + 24	145 + 145	2	3.1	9.6	1	6.3	34
61020-S	160	85	374	1	56	353	2	3.1	9.6	1	8.4	44.3
62020-S	125	85	241	1 + 1	37 + 24	196 + 145	2	3.1	9.6	1	8.4	44.3
62024-S	160	102	264	1 + 1	37 + 37	196 + 196	2	5.3	17.5	1	8.4	44.3
62028-S	160	109	348	1 + 1	42 + 37	280 + 196	2	5.3	17.5	1	8.4	44.3
62033-S	200	122	362	1 + 1	42 + 42	280 + 280	3	5.3	17.5	1	11.5	65.5
62036-S	200	143	439	1 + 1	56 + 42	353 + 280	3	5.3	17.5	1	15.5	102.3
62037-S	250	157	453	1 + 1	56 + 56	353 + 353	3	5.3	17.5	1	15.5	102.3
62046-S	250	189	351	2 + 2	37 + 37	196 + 196	3	5.3	17.5	1	15.5	102.3
62055-S	315	213	452	2 + 2	42 + 37	280 + 196	4	5.3	17.5	1	23	147.1
62060-S	315	231	470	2 + 2	42 + 42	280 + 280	4	5.3	17.5	1	30.9	216
62066-S	400	262	557	2 + 2	56 + 42	353 + 280	4	5.3	17.5	1	30.9	216
62076-S	400	290	585	2 + 2	56 + 56	353 + 353	4	5.3	17.5	1	30.9	216
63085-S	400	310	562	3 + 3	42 + 37	280 + 196	6	5.3	17.5	1	30.9	216
63090-S	400	325	577	3 + 3	42 + 42	280 + 280	6	5.3	17.5	1	30.9	216
63095-S	400	325	577	3 + 3	42 + 42	280 + 280	6	5.3	17.5	1	30.9	216
63100-S	500	357	664	2 + 4	56 + 42	353 + 280	6	5.3	17.5	1	30.9	216
63105-S	500	385	692	4 + 2	56 + 42	353 + 280	6	5.3	17.5	1	30.9	216
63110-S	500	405	713	5 + 1	56 + 42	353 + 280	6	5.3	17.5	1	37.5	281.3
64120-S	500	426	678	4 + 4	42 + 42	280 + 280	8	5.3	17.5	1	37.5	281.3
64130-S	630	472	779	3 + 5	56 + 42	353 + 280	8	5.3	17.5	1	37.5	281.3
64136-S	630	500	807	5 + 3	56 + 42	353 + 280	8	5.3	17.5	1	37.5	281.3
64145-S	630	548	855	4 + 4	56 + 56	353 + 353	8	5.3	17.5	1	43.6	326.7

Table 12

POWER SUPPLY 460V/3Ph/60Hz

MODEL PACV	Unit Characteristic			Compressor			Condenser Fan Motor			Evaporator Fan Motor		
	MFA	MCA	ICF	QTY	RLA	LRA	QTY	FLA	LRA	QTY	FLA	LRA
61009-S	63	32	135	1	21	125	2	1.3	5.2	1	3	15.6
61012-S	80	42	190	1	28	179	2	1.3	5.2	1	4.1	20.7
61018-S	100	59	245	1	38	225	2	3.1	11.8	1	5.2	28.1
62018-S	100	59	166	1 + 1	21 + 21	125 + 125	2	3.1	11.8	1	5.2	28.1
61020-S	125	68	294	1	44	272	2	3.1	11.8	1	6.9	36.6
62020-S	100	69	222	1 + 1	28 + 21	179 + 125	2	3.1	11.8	1	6.9	36.6
62024-S	125	80	240	1 + 1	28 + 28	179 + 179	2	5	21.0	1	6.9	36.6
62028-S	160	92	286	1 + 1	38 + 28	225 + 179	2	5	21.0	1	6.9	36.6
62033-S	160	110	304	1 + 1	38 + 38	225 + 225	3	5	21.0	1	9.5	54.1
62036-S	200	121	354	1 + 1	44 + 38	272 + 225	3	5	21.0	1	12.8	84.5
62037-S	200	127	360	1 + 1	44 + 44	272 + 272	3	5	21.0	1	12.8	84.5
62046-S	200	147	307	2 + 2	28 + 28	179 + 179	3	5	21.0	1	12.8	84.5
62055-S	250	181	374	2 + 2	38 + 28	225 + 179	4	5	21.0	1	19	121.6
62060-S	250	207	401	2 + 2	38 + 38	225 + 225	4	5	21.0	1	25.5	178.5
62066-S	315	221	454	2 + 2	44 + 38	272 + 225	4	5	21.0	1	25.5	178.5
62076-S	315	233	466	2 + 2	44 + 44	272 + 272	4	5	21.0	1	25.5	178.5
63085-S	315	263	473	3 + 3	38 + 28	225 + 179	6	5	21.0	1	25.5	178.5
63090-S	400	293	503	3 + 3	38 + 38	225 + 225	6	5	21.0	1	25.5	178.5
63095-S	400	293	503	3 + 3	38 + 38	225 + 225	6	5	21.0	1	25.5	178.5
63100-S	400	307	556	2 + 4	44 + 38	272 + 225	6	5	21.0	1	25.5	178.5
63105-S	400	319	568	4 + 2	44 + 38	272 + 225	6	5	21.0	1	25.5	178.5
63110-S	400	330	579	5 + 1	44 + 38	272 + 225	6	5	21.0	1	31	232.5
64120-S	500	385	594	4 + 4	38 + 38	225 + 225	8	5	21.0	1	31	232.5
64130-S	500	404	653	3 + 5	44 + 38	272 + 225	8	5	21.0	1	31	232.5
64136-S	500	416	665	5 + 3	44 + 38	272 + 225	8	5	21.0	1	31	232.5
64145-S	500	439	688	4 + 4	44 + 44	272 + 272	8	5	21.0	1	36	270

Table 13

SKM Packaged Air Conditioning Units PACV Series - R-134a

ELECTRICAL DATA

POWER SUPPLY 220V/3Ph/60Hz

MODEL PACV	Unit Characteristic			Compressor			Condenser Fan Motor			Evaporator Fan Motor		
	MFA	MCA	ICF	QTY	RLA	LRA	QTY	FLA	LRA	QTY	FLA	LRA
61009-S	125	70	261	1	47	245	2	2.5	7.5	1	6.2	32.6
61012-S	160	89	359	1	60	340	2	2.5	7.5	1	8.5	43.3
61018-S	250	123	538	1	81	505	2	5.4	16.7	1	10.9	58.7
62018-S	200	127	325	1 + 1	47 + 47	245 + 245	2	5.4	16.7	1	10.9	58.7
61020-S	250	134	642	1	87	605	2	5.4	16.7	1	14.4	76.5
62020-S	250	147	424	1 + 1	60 + 47	340 + 245	2	5.4	16.7	1	14.4	76.5
62024-S	250	167	453	1 + 1	60 + 60	340 + 340	2	9	29.7	1	14.4	76.5
62028-S	315	194	618	1 + 1	81 + 60	505 + 340	2	9	29.7	1	14.4	76.5
62033-S	315	229	654	1 + 1	81 + 81	505 + 505	3	9	29.7	1	19.9	113.1
62036-S	400	244	761	1 + 1	87 + 81	605 + 505	3	9	29.7	1	26.8	176.6
62037-S	400	250	767	1 + 1	87 + 87	605 + 605	3	9	29.7	1	26.8	176.6
62046-S	400	309	595	2 + 2	60 + 60	340 + 340	3	9	29.7	1	26.8	176.6
62055-S	500	378	802	2 + 2	81 + 60	505 + 340	4	9	29.7	1	39.7	254.1
62060-S	630	434	858	2 + 2	81 + 81	505 + 505	4	9	29.7	1	53.3	373.1
62066-S	630	447	964	2 + 2	87 + 81	605 + 505	4	9	29.7	1	53.3	373.1
62076-S	630	459	976	2 + 2	87 + 87	605 + 605	4	9	29.7	1	53.3	373.1
63085-S	800	551	996	3 + 3	81 + 60	505 + 340	6	9	29.7	1	53.3	373.1
63090-S	800	614	1059	3 + 3	81 + 81	505 + 505	6	9	29.7	1	53.3	373.1
63095-S	800	614	1059	3 + 3	81 + 81	505 + 505	6	9	29.7	1	53.3	373.1
63100-S	800	627	1165	2 + 4	87 + 81	605 + 505	6	9	29.7	1	53.3	373.1
63105-S	800	639	1177	4 + 2	87 + 81	605 + 505	6	9	29.7	1	53.3	373.1
63110-S	800	657	1194	5 + 1	87 + 81	605 + 505	6	9	29.7	1	64.8	485.9
64120-S	1000	805	1250	4 + 4	81 + 81	505 + 505	8	9	29.7	1	64.8	485.9
64130-S	1000	825	1362	3 + 5	87 + 81	605 + 505	8	9	29.7	1	64.8	485.9
64136-S	1000	837	1374	5 + 3	87 + 81	605 + 505	8	9	29.7	1	64.8	485.9
64145-S	1000	865	1403	4 + 4	87 + 87	605 + 605	8	9	29.7	1	75.2	564.3

Table 14

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.
- ICF** Maximum Instantaneous Current Flow.
- DOL** Direct On-Line Start .

- PWS** Part Winding Start.
- RLA** Rated Load Amps. (at worst operating condition) .
- LRA** Locked Rotor Amps.
- FLA** Full Load Amps.

Note :

Voltage imbalance not to exceed $\pm 2\%$ of the rated voltage.

Component Air Pressure Drop

Components		Coil Face Velocity							
		fpm	300	350	400	450	500	550	600
Flat Filters	aluminum filter 2"	in.wg	0.060	0.090	0.120	0.170	0.220	0.270	0.330
		Pa	15	22	30	42	55	67	82
	synthetic 2"	in.wg	0.150	0.170	0.200	0.230	0.270	0.310	0.350
		Pa	37	42	50	57	67	77	87
Vee Filters		in.wg	Flat filter PD X 0.7						
Bag Filters	22" depth	in.wg	0.220	0.300	0.380	0.490	0.600	0.730	0.860
		Pa	55	75	95	122	149	182	214
	30" depth	in.wg	0.200	0.270	0.350	0.450	0.550	0.670	0.790
		Pa	50	67	87	112	137	167	197
	36" depth	in.wg	0.180	0.250	0.320	0.410	0.500	0.610	0.720
		Pa	45	62	80	102	124	152	179

* Initial pressure drop based on 95% bag filter dust spot efficiency.

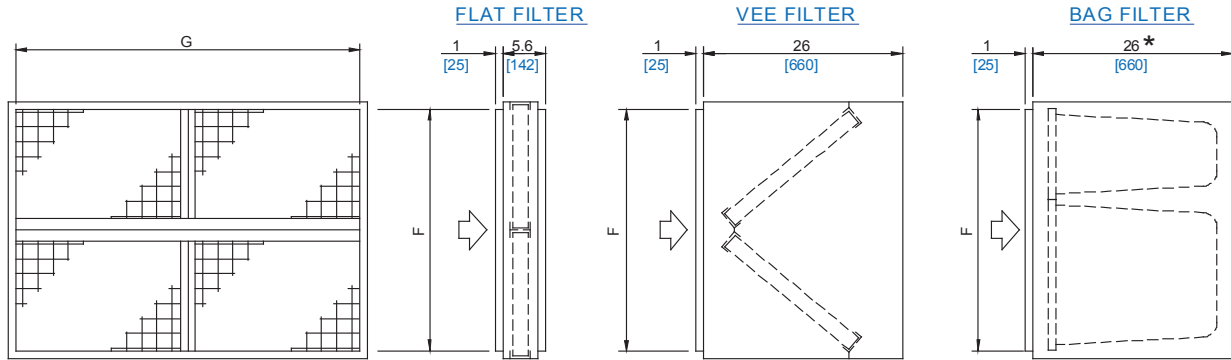
N.R. = Not Recommended

Electric Heater		in.wg	0.030	0.040	0.050	0.060	0.070	0.080	0.090
		Pa	7	10	12	15	17	20	22
Casing	1 Blower	in.wg	0.112	0.147	0.185	0.228	0.275	0.325	0.379
		Pa	28	37	46	57	68	81	94
	2 Blowers	in.wg	0.080	0.104	0.132	0.162	0.195	0.230	0.269
		Pa	20	26	33	40	48	57	67
Evaporator Coil (3/8" - 12 fpi)	4 Rows	in.wg	0.188	0.256	0.342	0.445	0.564	0.699	0.850
		Pa	47	64	85	111	140	174	211
	5 Rows	in.wg	0.235	0.320	0.428	0.556	0.705	0.874	1.062
		Pa	58	80	106	138	175	217	264
Evaporator Coil (5/8" - 12 fpi)	5 Rows	in.wg	0.325	0.423	0.532	0.650	0.778	0.916	1.063
		Pa	81	105	132	162	194	228	265
	6 Rows	in.wg	0.390	0.508	0.638	0.780	0.934	1.100	1.276
		Pa	97	126	159	194	232	274	317
Moisture Eliminator		in.wg	0.020	0.040	0.060	0.080	0.100	0.110	0.120
		Pa	5	10	15	20	25	27	30

Table 15

SKM Packaged Air Conditioning Units PACV Series - R-134a

Filter Dimensions & Sizes



MODEL PACV	F	G	FLAT FILTER		VEE FILTER		BAG FILTER					
			SIZE H x L	QTY.	SIZE H x L	QTY.	SIZE H x L	QTY.	SIZE H x L	QTY.		
51008 S 61009 S	24 (610)	40 (1016)	25x20 (635x508)	2	-	20x20 (508x508)	4	24x20 (610x508)	2	-	-	
51010 S 61012 S	30 (762)	44 (1118)	16x25 (406x635) 16x20 (406x508)	2 2	-	24x20 (635x508) 24x25 (635x635)	2 2	12x24 (305x610) 12x20 (305x508)	1 1	20x24 (508x610) 20x20 (508x508)	1 1	
51014 S 61018 S	30 (762)	60 (1524)	16x20 (406x508)	6	-	24x20 (635x508)	6	12x20 (305x508)	3	20x20 (508x508)	3	
52015 S 62018 S	30 (762)	60 (1524)	16x20 (406x508)	6	-	24x20 (635x508)	6	12x20 (305x508)	3	20x20 (508x508)	3	
51017 S 61020 S	30 (762)	65 (1661)	16x25 (406x635) 16x20 (406x508)	2 4	-	24x16 (635x406) 24x25 (635x635)	2 4	12x24 (305x610) 12x20 (305x508)	1 2	20x24 (508x610) 20x20 (508x508)	1 2	
52017 S 62020 S	30 (762)	65 (1661)	16x25 (406x635) 16x20 (406x508)	2 4	-	24x16 (635x406) 24x25 (635x635)	2 4	12x24 (305x610) 12x20 (305x508)	1 2	20x24 (508x610) 20x20 (508x508)	1 2	
52020 S 62024 S	30 (762)	72 (1829)	16x16 (406x406) 16x20 (406x508)	4 4	-	24x20 (635x508) 24x25 (635x635)	2 4	12x24 (305x610) 20x24 (508x610)	3 3	-	-	
52023 S 62028 S	36 (914)	72 (1829)	16x16 (406x406) 16x20 (406x508)	2 2	20x16 (508x406) 20x20 (508x508)	2 2	20x16 (508x406) 20x20 (508x508)	6 6	12x24 (305x610) 24x24 (610x610)	3 3	-	
52026 S 62033 S	40 (1016)	75 (1905)	20x25 (508x635)	6	-	20x25 (508x635)	9	20x20 (508x508) 20x24 (508x610) 20x12 (508x305)	4 2 2	-	-	
52030 S 62036 S	48 (1219)	75 (1905)	25x25 (635x635)	6	-	24x25 (635x635)	9	24x20 (610x508) 24x24 (610x610) 24x12 (610x305)	4 2 2	-	-	
52032 S 62037 S	48 (1219)	75 (1905)	25x25 (635x635)	6	-	24x25 (635x635)	9	24x20 (610x508) 24x24 (610x610) 24x12 (610x305)	4 2 2	-	-	
52038 S 62046 S	56 (1422)	75 (1905)	16x25 (406x635) 20x25 (508x635)	3 6	-	24x25 (635x635)	9	12x12 (305x305) 12x20 (305x508) 12x24 (305x610) 20x24 (508x610)	1 2 1 1	20x20 (508x508) 20x12 (508x305) 24x24 (610x610) 24x20 (610x508) 24x12 (610x305)	2 1 1 2 1	
52045 S 62055 S	66 (1676)	75 (1905)	25x25 (635x635) 20x25 (508x635)	3 6	-	24x25 (635x635)	12	24x20 (610x508) 24x24 (610x610) 24x12 (610x305)	4 2 2	20x20 (508x508) 20x24 (508x610) 20x12 (508x305)	2 1 1	
52050 S 62060 S	72 (1829)	75 (1905)	16x25 (406x635) 20x25 (508x635)	6 6	-	24x25 (635x635)	12	24x20 (610x508) 24x24 (610x610) 24x12 (610x305)	6 3 3	-	-	
52055 S 62066 S	72 (1829)	80 (2032)	16x20 (406x508) 20x20 (508x508)	8 8	-	24x20 (635x508)	16	24x20 (610x508)	12	-	-	
52065 S 62076 S	72 (1829)	98 (2489)	16x25 (406x635) 20x25 (508x635)	8 8	-	24x25 (635x635)	16	24x24 (610x610)	12	-	-	
53070 S 63085 S	81 (2057)	98 (2489)	16x25 (406x635) 25x25 (635x635)	8 8	-	24x25 (635x635)	20	20x24 (508x610)	16	-	-	
53075 S 63090 S	81 (2057)	98 (2489)	16x25 (406x635) 25x25 (635x635)	8 8	-	24x25 (635x635)	20	20x24 (508x610)	16	-	-	
53080 S 63095 S	90 (2286)	98 (2489)	20x25 (508x635) 25x25 (635x635)	8 8	-	24x25 (635x635)	20	24x24 (610x610) 20x24 (508x610)	12 4	-	-	
53085 S 63100 S	90 (2286)	102 (2591)	25x16 (635x406) 25x20 (635x508) 20x25 (508x635)	4 2 4	25x25 (635x635) 20x16 (508x406) 20x20 (508x508)	4 4 2	24x25 (635x635)	20	24x20 (610x508) 24x24 (610x610) 24x12 (610x305)	3 9 3	20x20 (508x508) 20x24 (508x610) 20x12 (508x305)	1 3 1
53090 S 63105 S	90 (2286)	108 (2743)	20x16 (508x406) 20x20 (508x508)	6 6	25x16 (635x406) 25x20 (635x508)	6 6	24x16 (635x406) 24x20 (635x508)	15 15	24x24 (610x610) 24x12 (610x305)	12 3	20x24 (508x610) 20x12 (508x305)	4 1
53095 S 63110 S	90 (2286)	115 (2921)	25x25 (635x635) 25x16 (635x406)	8 2	20x25 (508x635) 20x16 (508x406)	8 2	24x25 (635x635) 24x16 (635x406)	20 5	24x20 (610x508) 24x24 (610x610)	3 12	20x20 (508x508) 20x24 (508x610)	1 4
54100 S 64120 S	90 (2286)	118 (2997)	25x25 (635x635) 25x20 (635x508)	8 2	20x25 (508x635) 20x20 (508x508)	8 2	24x25 (635x635) 24x20 (635x508)	20 5	24x24 (610x610) 20x24 (508x610)	15 5	-	-
54110 S 64130 S	90 (2286)	122 (3099)	25x25 (635x635) 25x20 (635x508) 25x16 (635x406)	4 4 4	20x25 (508x635) 20x20 (508x508) 20x16 (508x406)	4 4 4	24x25 (635x635)	25	24x24 (610x610) 20x24 (508x610)	15 5	-	-
54115 S 64136 S	90 (2286)	128 (3251)	20x16 (508x406) 25x16 (635x406)	16 16	-	24x25 (635x635)	30	24x20 (610x508) 24x24 (610x610) 24x12 (610x305)	3 12 3	20x20 (508x508) 20x24 (508x610) 20x12 (508x305)	1 4 1	
54125 S 64145 S	90 (2286)	136 (3454)	25x25 (635x635) 25x20 (635x508) 25x16 (635x406)	8 2 2	20x25 (508x635) 20x20 (508x508) 20x16 (508x406)	8 2 2	24x25 (635x635) 24x20 (635x508) 24x16 (635x406)	20 5 5	24x20 (610x508) 24x24 (610x610) 24x12 (610x305)	15 3 3	20x20 (508x508) 20x24 (508x610) 20x12 (508x305)	5 1 1

* BAG FILTER IS APPLICABLE FOR 22" DEPTH ALL DIMENSIONS ARE IN INCHES (MM)

Table 16

SKM Packaged Air Conditioning Units PACV Series - R-134a

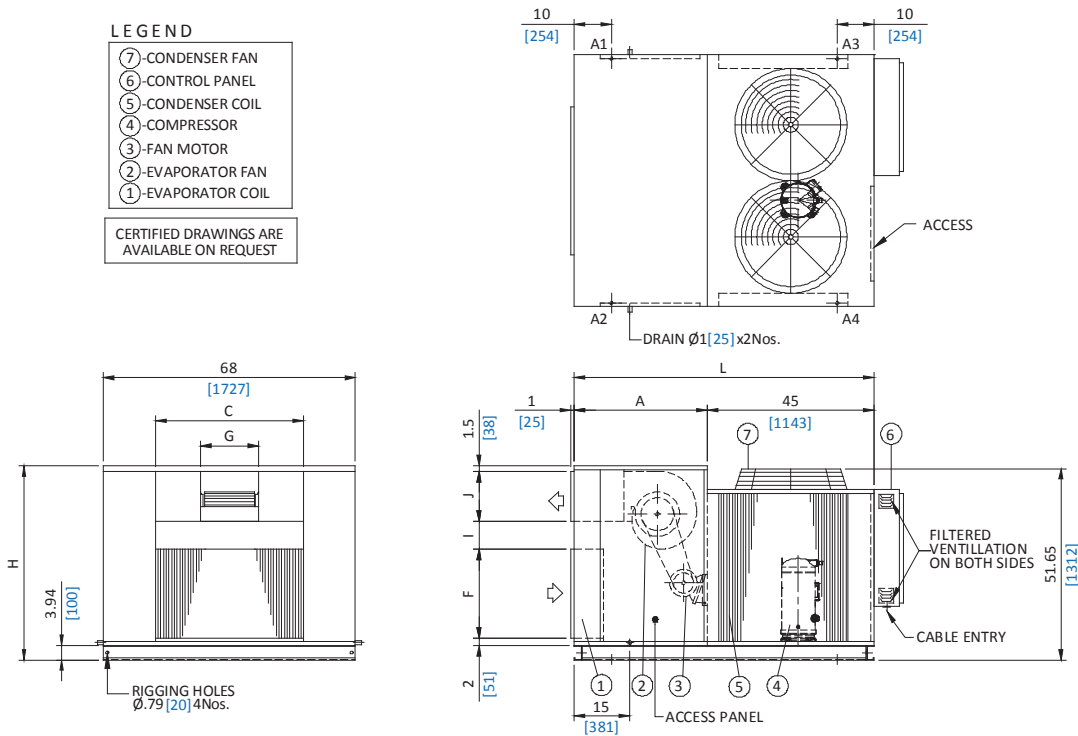
Dimensional Data

PACV Models: 51008 S, 51010 S & 61009 S, 61012 S

LEGEND

- ⑦-CONDENSER FAN
- ⑥-CONTROL PANEL
- ⑤-CONDENSER COIL
- ④-COMPRESSOR
- ③-FAN MOTOR
- ②-EVAPORATOR FAN
- ①-EVAPORATOR COIL

CERTIFIED DRAWINGS ARE AVAILABLE ON REQUEST



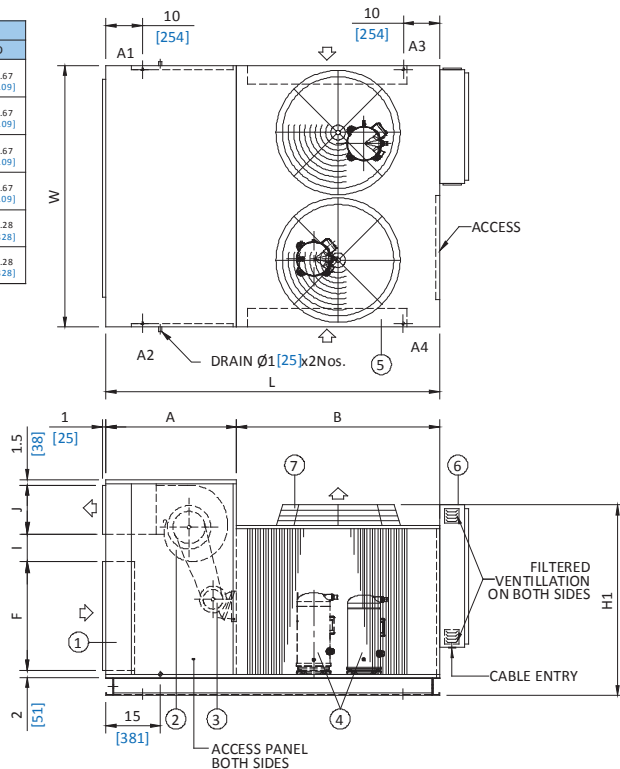
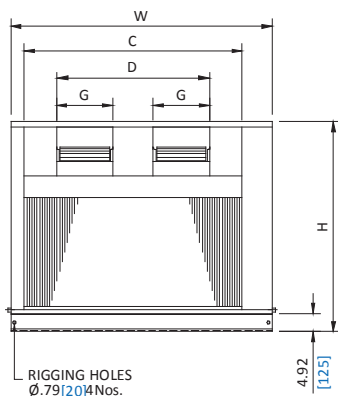
MODEL PACV	DIMENSIONS							
	H	L	A	C	F	J	G	I
51008 S 61009 S	52.44 [1332]	81 [2057]	36 [914]	40 [1016]	24 [610]	13.43 [341]	15.55 [395]	7.56 [192]
51010 S 61012 S	61.91 [1572]	85 [2159]	40 [1016]	44 [1118]	30 [762]	15.91 [404]	18.54 [471]	8.54 [217]

PACV Models: 51014 S - 52023 S & 61018 S - 62028 S

MODEL PACV	DIMENSIONS											
	H	W	H1	L	A	B	C	I	F	J	G	D
*51014 S *61018 S	59.41 [1509]	74 [1880]	52.63 [1337]	92 [2337]	36 [914]	56 [1422]	60 [1524]	7.56 [192]	30 [762]	13.43 [341]	15.55 [395]	43.67 [1109]
52015 S 62018 S	59.41 [1509]	74 [1880]	52.63 [1337]	92 [2337]	36 [914]	56 [1422]	60 [1524]	7.56 [192]	30 [762]	13.43 [341]	15.55 [395]	43.67 [1109]
*51017 S *61020 S	59.41 [1509]	76 [1930]	52.63 [1337]	92 [2337]	36 [914]	56 [1422]	65.4 [1661]	7.56 [192]	30 [762]	13.43 [341]	15.55 [395]	43.67 [1109]
52017 S 62020 S	59.41 [1509]	76 [1930]	52.63 [1337]	92 [2337]	36 [914]	56 [1422]	65.4 [1661]	7.56 [192]	30 [762]	13.43 [341]	15.55 [395]	43.67 [1109]
52020 S 62024 S	62.87 [1597]	84 [2134]	60.63 [1540]	96 [2438]	40 [1016]	56 [1422]	72 [1829]	8.54 [217]	30 [762]	15.91 [404]	18.54 [471]	52.28 [1328]
52023 S 62028 S	68.87 [1749]	84 [2134]	60.63 [1540]	98 [2495]	40 [1016]	58 [1473]	72 [1829]	8.54 [217]	36 [914]	15.91 [404]	18.54 [471]	52.28 [1328]

* MODEL WITH 1-COMPRESSOR

AVAILABLE ON REQUEST
CERTIFIED DRAWINGS ARE



SKM Packaged Air Conditioning Units PACV Series - R-134a

Dimensional Data

PACV Models: 52026 S - 52038 S & 62033 S - 62046 S

MODEL PACV	DIMENSIONS ARE IN INCHES [mm]								
	H	L	A	F	H1	J	G	D	I
52026 S 62033 S	72.87 [1851]	116 [2946]	40 [1016]	40 [1016]	60.63 [1540]	15.91 [404]	18.54 [471]	52.28 [1328]	8.54 [217]
52030 S 62036 S	80.87 [2054]	116 [2946]	40 [1016]	48 [1219]	60.63 [1540]	15.91 [404]	18.54 [471]	52.28 [1328]	8.54 [217]
52032 S 62037 S	80.87 [2054]	116 [2946]	40 [1016]	48 [1219]	60.63 [1540]	15.91 [404]	18.54 [471]	52.28 [1328]	8.54 [217]
*52038 S *62046 S	93.99 [2387]	119 [3023]	43 [1092]	56 [1422]	77.63 [1972]	18.82 [478]	21.93 [557]	61.85 [1571]	10.75 [273]

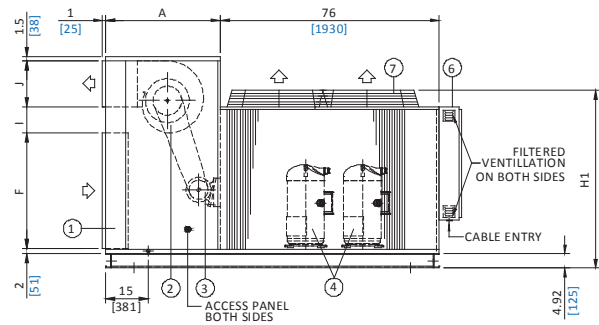
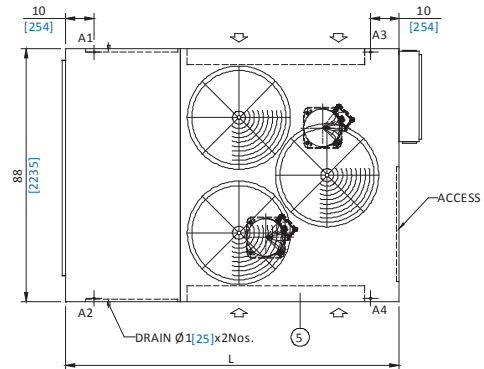
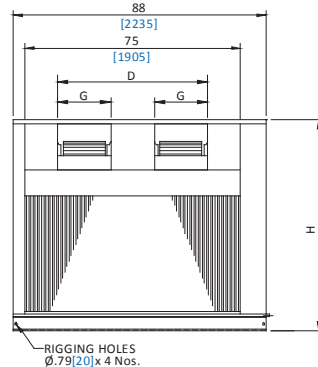
* MODEL WITH TANDEM COMPRESSORS

CERTIFIED DRAWINGS ARE
AVAILABLE ON REQUEST

FROM THE MODELS 52038S/62046S, USING TANDEM COMPRESSORS

LEGEND

- ⑦ CONDENSER FAN
- ⑥ CONTROL PANEL
- ⑤ CONDENSER COIL
- ④ COMPRESSOR
- ③ FAN MOTOR
- ② EVAPORATOR FAN
- ① EVAPORATOR COIL

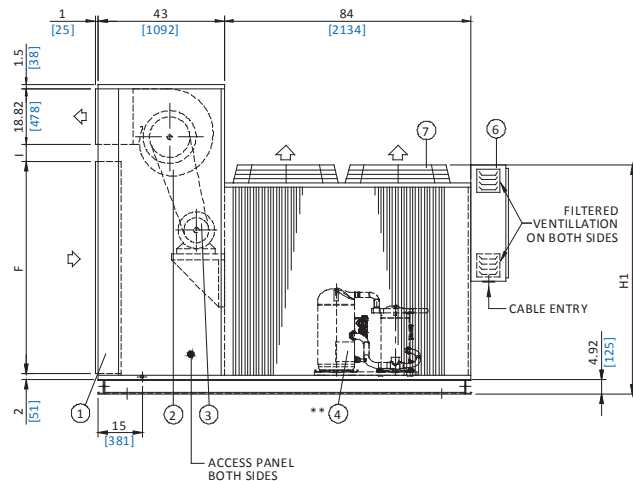
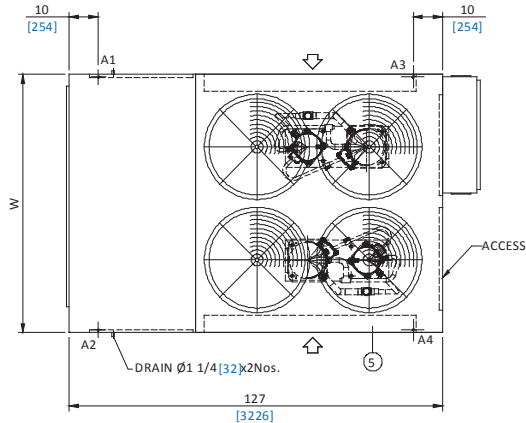
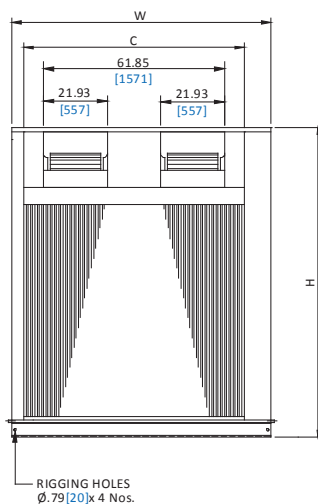


PACV Models: 52045 S - 52055 S & 62055 S - 62066 S

MODEL PACV	DIMENSIONS ARE IN INCHES [mm]					
	H	W	H1	C	F	I
52045 S 62055 S	99.24 [2521]	88 [2235]	77.63 [1972]	75 [1905]	66 [1676]	6 [152]
52050 S 62060 S	103.24 [2622]	88 [2235]	85.63 [2175]	75 [1905]	72 [1829]	4 [102]
52055 S 62066 S	103.24 [2622]	92 [2337]	85.63 [2175]	80 [2032]	72 [1829]	4 [102]

** TANDEM COMPRESSOR

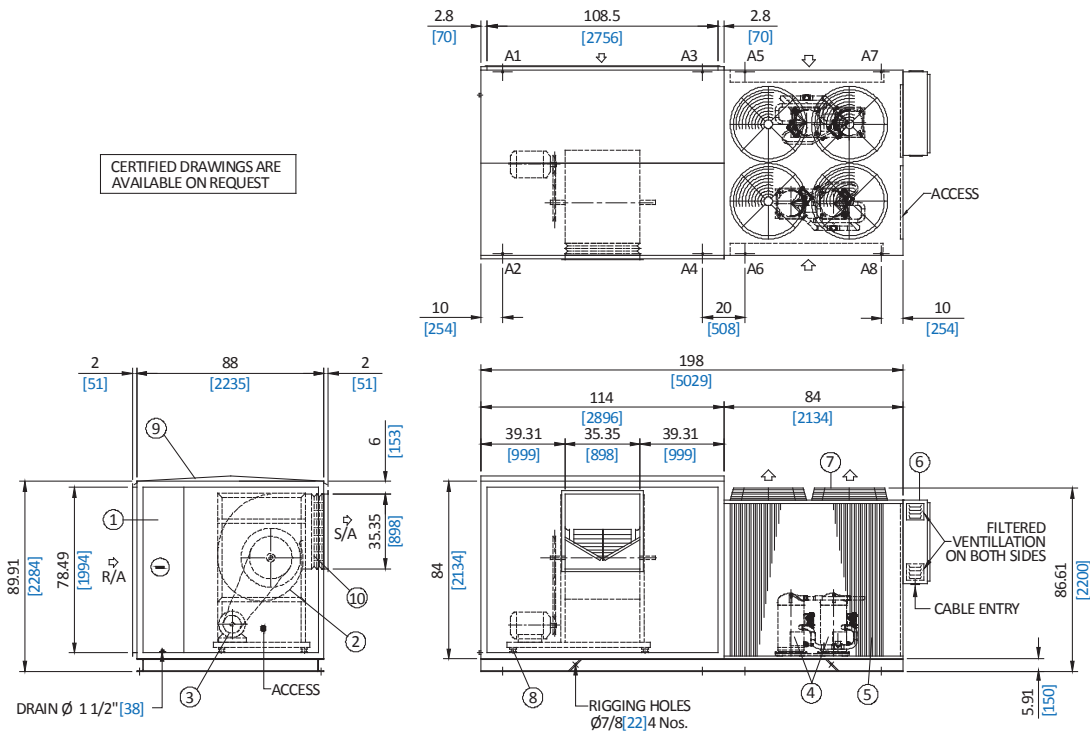
CERTIFIED DRAWINGS ARE
AVAILABLE ON REQUEST



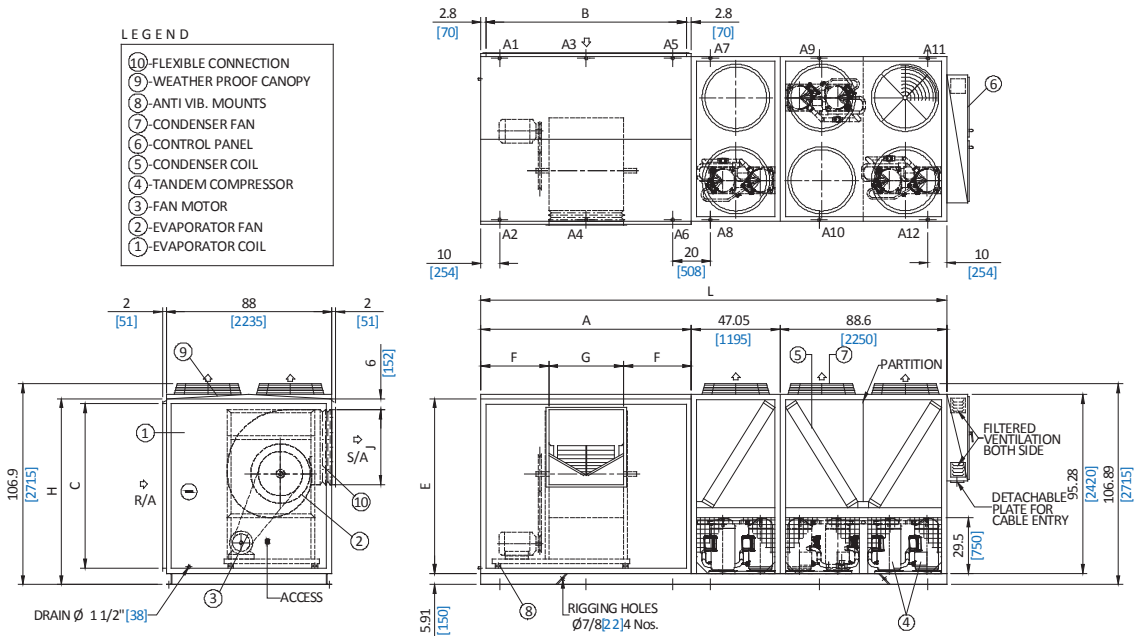
SKM Packaged Air Conditioning Units PACV Series - R-134a

Dimensional Data

PACV Models: 52065 S & 62076 S



PACV Models: 53070 S - 53095 S & 63085 S - 63110 S



MODEL PACV	DIMENSIONS ARE IN INCHES [MM]								
	L	A	B	E	F	H	J	G	C
53070 S 63085 S	249.6 [6341]	114 [2896]	108.5 [2756]	93 [2362]	37.17 [944]	98.94 [2513]	39.65 [1007]	39.65 [1007]	87.5 [2222]
53075 S 63090 S	249.6 [6341]	114 [2896]	108.5 [2756]	93 [2362]	37.17 [944]	98.94 [2513]	39.65 [1007]	39.65 [1007]	87.5 [2222]
53080 S 63095 S	249.6 [6341]	114 [2896]	108.5 [2756]	102 [2591]	37.17 [944]	107.91 [2741]	39.65 [1007]	39.65 [1007]	96.5 [2451]
53085 S 63100 S	253.6 [6441]	118 [2997]	112.5 [2857]	102 [2591]	36.76 [934]	107.91 [2741]	44.49 [1130]	44.49 [1130]	96.5 [2451]
53090 S 63105 S	259.6 [6594]	124 [3150]	118.5 [3010]	102 [2591]	39.76 [1010]	107.91 [2741]	44.49 [1130]	44.49 [1130]	96.5 [2451]
53095 S 63110 S	266.6 [6772]	131 [3327]	125.5 [3188]	102 [2591]	43.26 [1099]	107.91 [2741]	44.49 [1130]	44.49 [1130]	96.5 [2451]

SKM Packaged Air Conditioning Units PACV Series - R-134a

Dimensional Data

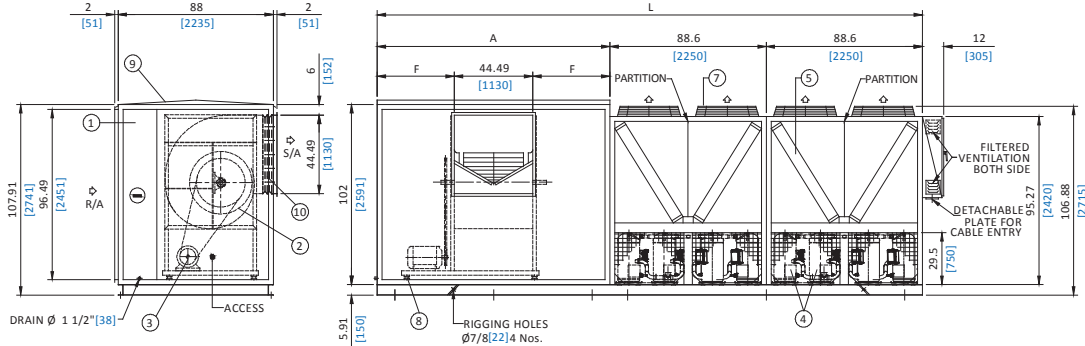
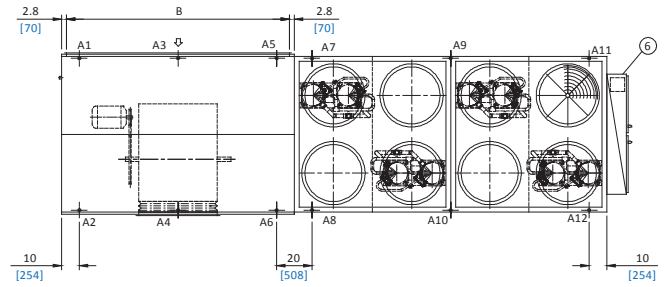
PACV Models: 54100 S - 54125 S & 64120 S - 64145 S

LEGEND

- ⑩ FLEXIBLE CONNECTION
- ⑨ WEATHER PROOF CANOPY
- ⑧ ANTI VIB. MOUNTS
- ⑦ CONDENSER FAN
- ⑥ CONTROL PANEL
- ⑤ CONDENSER COIL
- ④ COMPRESSOR
- ③ FAN MOTOR
- ② EVAPORATOR FAN
- ① EVAPORATOR COIL

MODEL PACV	DIMENSIONS ARE IN INCHES[mm]			
	L	A	B	F
54100 S 64120 S	311.2 [7904]	134 [3404]	128.5 [3264]	44.76 [1137]
54110 S 64130 S	315.2 [8006]	138 [3505]	132.5 [3365]	46.76 [1188]
54115 S 64136 S	321.2 [8158]	144 [3658]	138.5 [3518]	49.76 [1264]
54125 S 64145 S	329.2 [8362]	152 [3861]	146.5 [3721]	53.76 [1365]

CERTIFIED DRAWINGS ARE AVAILABLE ON REQUEST



LOADING POINTS - 50Hz

MODEL PACV	UNIT	Load at Each Point lbs. [Kg.]				TOTAL WEIGHT
		A1	A2	A3	A4	
51008-S	lb	214	215	309	311	1049
	Kg	97	97	140	141	476
51010-S	lb	242	243	334	336	1154
	Kg	110	110	152	152	524
51014-S	lb	462	461	578	550	2050
	Kg	209	209	262	249	930
52015-S	lb	503	493	607	605	2208
	Kg	228	224	275	274	1001
51017-S	lb	494	493	608	580	2175
	Kg	224	223	276	263	987
52017-S	lb	513	504	622	615	2254
	Kg	233	229	282	279	1023
52020-S	lb	549	536	657	654	2395
	Kg	249	243	298	297	1086
52023-S	lb	576	553	732	693	2553
	Kg	261	251	332	314	1158
52026-S	lb	699	689	873	871	3133
	Kg	317	312	396	395	1421
52030-S	lb	736	722	889	882	3228
	Kg	334	328	403	400	1464
52032-S	lb	737	725	894	891	3248
	Kg	334	329	405	404	1473
52038-S	lb	822	807	1011	1008	3648
	Kg	373	366	459	457	1655
52045-S	lb	969	934	1283	1207	4392
	Kg	439	424	582	547	1992

Table 17

LOADING POINTS - 60Hz

MODEL PACV	UNIT	Load at Each Point lbs. [Kg.]				TOTAL WEIGHT
		A1	A2	A3	A4	
61009-S	lb	221	221	312	313	1067
	Kg	100	100	141	142	484
61012-S	lb	256	256	338	340	1190
	Kg	116	116	153	154	540
61018-S	lb	472	472	581	553	2078
	Kg	214	214	263	251	942
62018-S	lb	513	503	610	608	2235
	Kg	233	228	277	276	1014
61020-S	lb	505	503	612	584	2204
	Kg	229	228	278	265	1000
62020-S	lb	523	515	625	618	2282
	Kg	237	233	284	280	1035
62024-S	lb	563	551	663	661	2438
	Kg	255	250	301	300	1106
62028-S	lb	591	568	756	718	2634
	Kg	268	258	343	326	1195
62033-S	lb	720	710	883	881	3195
	Kg	327	322	401	400	1449
62036-S	lb	760	747	899	891	3297
	Kg	345	339	408	404	1495
62037-S	lb	791	776	909	906	3383
	Kg	359	352	412	411	1534
62046-S	lb	850	835	1021	1018	3723
	Kg	386	379	463	462	1689
62055-S	lb	1088	1054	1350	1274	4767
	Kg	494	478	612	578	2162

Table 18

SKM Packaged Air Conditioning Units PACV Series - R-134a

LOADING POINTS - 50Hz

MODEL PACV	UNIT	LOADING POINTS												TOTAL WEIGHT
		A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	
52050-S	lb	1004	987	1360	1357	-	-	-	-	-	-	-	-	4708
	Kg	456	448	617	615	-	-	-	-	-	-	-	-	2135
52055-S	lb	1153	1134	1391	1378	-	-	-	-	-	-	-	-	5056
	Kg	523	514	631	625	-	-	-	-	-	-	-	-	2294
52065-S	lb	960	1026	566	633	983	983	1284	1284	-	-	-	-	7720
	Kg	435	465	257	287	446	446	583	583	-	-	-	-	3502
53070-S	lb	683	467	777	661	604	397	600	824	1046	876	793	1030	8758
	Kg	310	212	353	300	274	180	272	374	475	397	360	467	3973
53075-S	lb	687	471	781	665	607	401	626	894	1148	944	821	1105	9149
	Kg	312	213	354	302	275	182	284	406	521	428	372	501	4150
53080-S	lb	719	478	813	673	640	408	634	902	1156	952	828	1112	9316
	Kg	326	217	369	305	290	185	288	409	524	432	376	505	4226
53085-S	lb	752	503	882	755	673	435	676	944	1210	1009	879	1176	9895
	Kg	341	228	400	343	305	197	307	428	549	458	399	533	4488
53090-S	lb	770	509	908	766	691	436	682	950	1241	1023	885	1182	10045
	Kg	349	231	412	347	313	198	310	431	563	464	401	536	4556
53095-S	lb	808	529	937	777	716	444	693	967	1249	1033	893	1190	10236
	Kg	366	240	425	353	325	201	314	439	567	469	405	540	4643
54100-S	lb	954	665	1119	943	865	582	917	1298	1505	1513	1097	1339	12796
	Kg	433	302	507	428	392	264	416	589	683	686	497	607	5804
54110-S	lb	974	675	1139	953	885	591	956	1336	1584	1587	1144	1399	13222
	Kg	442	306	516	432	401	268	433	606	719	720	519	635	5998
54115-S	lb	993	680	1158	957	904	596	962	1345	1603	1604	1151	1404	13357
	Kg	451	308	525	434	410	270	436	610	727	728	522	637	6059
54125-S	lb	1028	694	1189	968	929	602	976	1375	1613	1622	1157	1410	13564
	Kg	466	315	539	439	422	273	443	624	732	736	525	640	6153

Table 19

LOADING POINTS - 60Hz

MODEL PACV	UNIT	Load at Each Point lbs. [Kg.]												TOTAL WEIGHT
		A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	
62060-S	lb	1152	1133	1501	1497	-	-	-	-	-	-	-	-	5282
	Kg	522	514	681	679	-	-	-	-	-	-	-	-	2396
62066-S	lb	1226	1205	1526	1513	-	-	-	-	-	-	-	-	5470
	Kg	556	546	692	686	-	-	-	-	-	-	-	-	2481
62076-S	lb	1019	1086	568	634	995	995	1365	1365	-	-	-	-	8027
	Kg	462	492	258	288	451	451	619	619	-	-	-	-	3641
63085-S	lb	729	468	822	662	649	398	609	832	1059	889	804	1040	8963
	Kg	331	212	373	300	294	181	276	378	481	403	365	472	4066
63090-S	lb	732	472	826	666	652	402	635	903	1161	957	832	1116	9354
	Kg	332	214	375	302	296	182	288	410	527	434	377	506	4243
63095-S	lb	770	480	863	674	690	410	643	911	1169	965	840	1124	9538
	Kg	349	218	392	306	313	186	292	413	530	438	381	510	4327
63100-S	lb	804	505	934	757	725	436	685	953	1224	1022	890	1187	10122
	Kg	365	229	424	343	329	198	311	432	555	464	404	538	4592
63105-S	lb	826	511	964	767	746	438	691	959	1254	1036	896	1193	10282
	Kg	374	232	437	348	339	199	314	435	569	470	406	541	4664
63110-S	lb	867	530	996	779	775	445	702	976	1263	1047	904	1201	10485
	Kg	393	241	452	353	351	202	318	443	573	475	410	545	4756
64120-S	lb	1014	667	1179	944	925	583	928	1309	1526	1534	1108	1350	13069
	Kg	460	302	535	428	420	264	421	594	692	696	503	613	5928
64130-S	lb	1036	677	1201	954	947	593	971	1358	1605	1608	1152	1400	13502
	Kg	470	307	545	433	429	269	440	616	728	729	523	635	6124
64136-S	lb	1058	681	1223	959	969	598	973	1356	1624	1625	1162	1416	13645
	Kg	480	309	555	435	440	271	441	615	737	737	527	642	6189
64145-S	lb	1098	696	1259	970	999	604	988	1386	1634	1643	1168	1422	13867
	Kg	498	316	571	440	453	274	448	629	741	745	530	645	6290

Table 20

SKM Packaged Air Conditioning Units PACV Series - R-134a

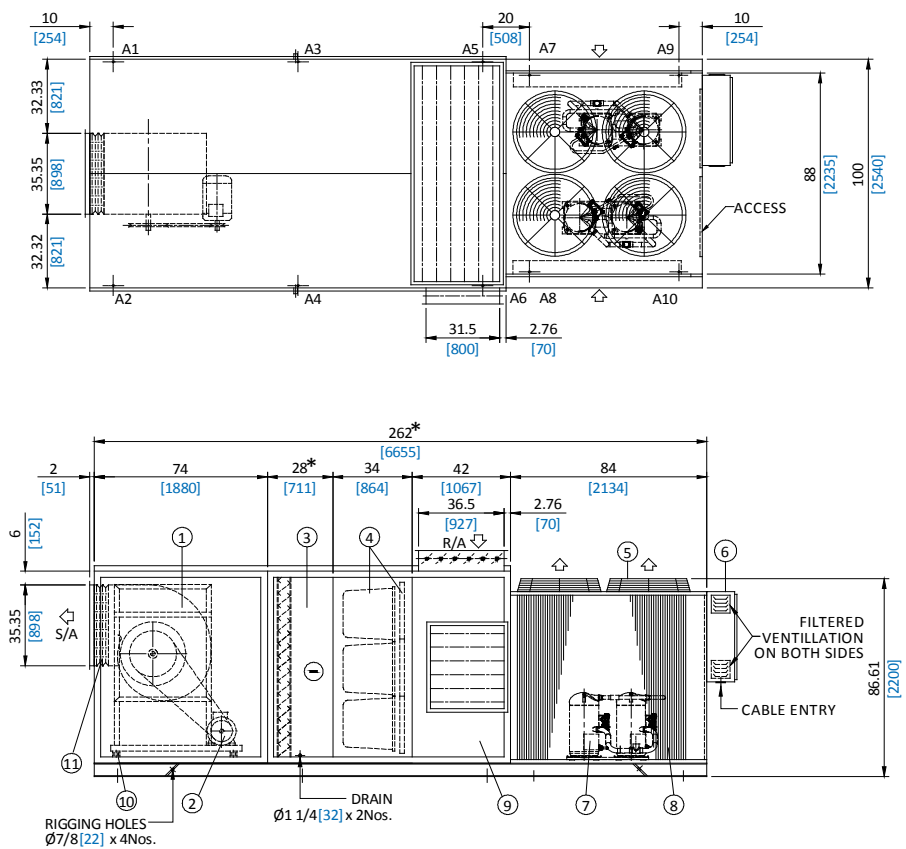
Optional Modular Construction

PACV Models: 52065 S / 62076 S

As an option, listed models can be produced as modular sections as per details given below.

- Mixing Box based on 75% R.A. and 25% F.A.
- Evaporator Fan is Forward Curved, type.
- 22" (559 mm) thick bag filter.
- 2" (50 mm) thick flat filter.
- Base frame size could be changed based on the components and application. Panel thickness is 1" (25 mm).

TYPICAL LAYOUT
70mm PENTA POST CONSTRUCTION
50mm THICK PANELS



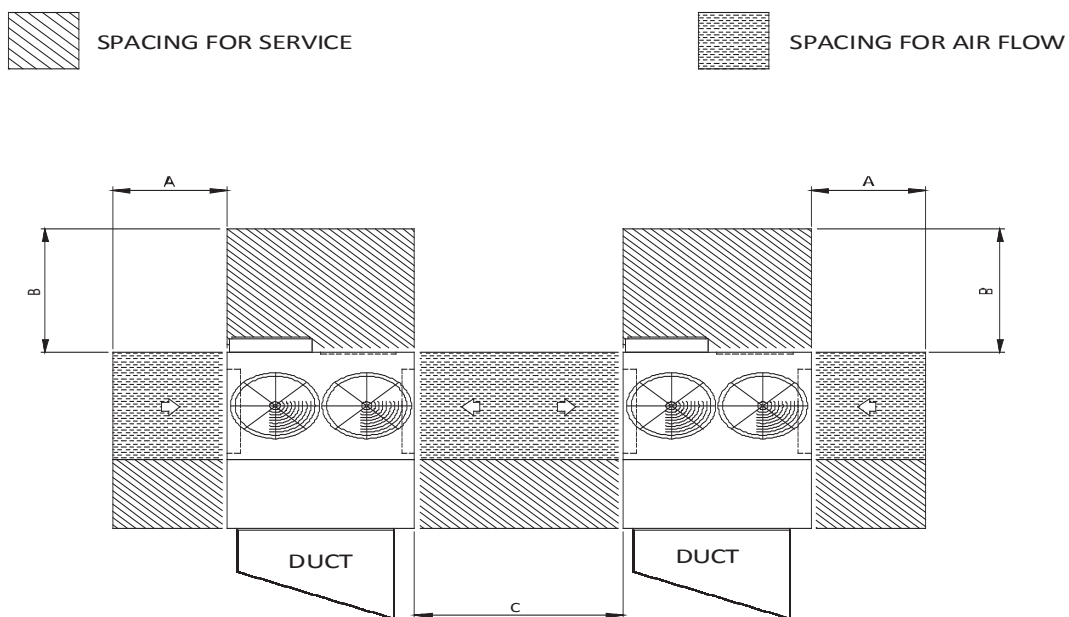
LEGEND

* IF ELIMINATOR IS NOT REQUIRED, REDUCE THE SECTION LENGTH BY 6 INCH.

① EVAPORATOR FAN	④ FLAT + BAG FILTER	⑦ COMPRESSOR	⑩ ANTI VIBRATION MOUNTS
② EVAPORATOR FAN MOTOR	⑤ CONDENSER FAN	⑧ CONDENSER COIL	⑪ FLEXIBLE CONNECTION
③ EVAP. COIL+ELIMINATOR	⑥ CONTROL PANEL	⑨ MIXING BOX	⑫ WEATHER PROOF CANOPY

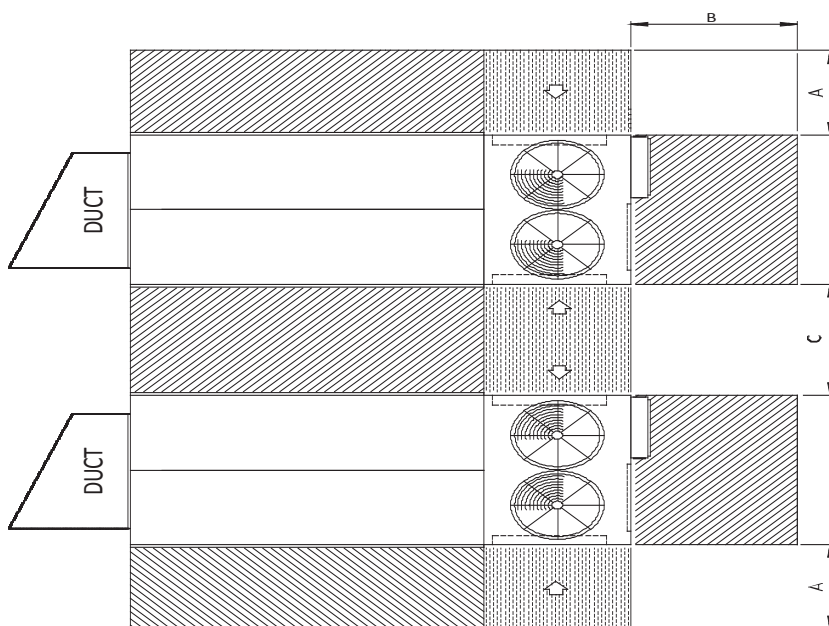
SKM Packaged Air Conditioning Units PACV Series - R-134a

Multiple Unit Installaion



PACV- 51008 S TO 52055 S
PACV- 61009 S TO 62066 S

Multiple Unit Installaion(Modular Construcion)



PACV- 51008 S TO 52055 S
PACV- 61009 S TO 62066 S



*you name it
we cool it*

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