



ComPac® I & ComPac® II 2 to 6 Ton Extreme Duty Vertical Wall Mount Air Conditioners

Models AVPC24-30-36-42-48-60-72

General Description

The Marvair® ComPac® I and ComPac® II air conditioners are used primarily to cool electronic and communication equipment shelters. The AVPC models use R-407c refrigerant and unique combination of controls and components to operate in extremely cold and hot ambient conditions.

ComPac® I air conditioners (non-economizer units) will operate from 20°F to 130°F (-7° to 54°C). ComPac® II air conditioners (economizer units) will operate from -20°F to 130°F (-29° to 54°C). (Note: operational temperatures are dependent on ambient conditions and return air temperature.)

The Extreme Duty Package includes a suction line accumulator, thermal expansion valve (TXV), crankcase heater, hard start kit, an auto reset high pressure switch and an outdoor thermostat and fan cycle switch. The fan cycle control is standard on all ComPac air conditioners and operates based upon the liquid line pressure. The outside thermostat opens whenever the outside temperature is below 50°F (10°C) and closes when the outside temperature is 50°F (10°C) or higher. Whenever the temperature is below 50°F (10°C), the fan cycle switch is in the circuit; when temperatures are 50°F (10°C) or higher, the fan cycle switch is not in the circuit. The outdoor thermostat is used with a TXV to prevent excessive cycling or "hunting" of the TXV.

The primary difference between the two models is that the ComPac® II air conditioner has a factory installed economizer. When cool and dry, the economizer uses outside air to cool the shelter. The economizer provides temperature control, energy cost savings, and increased reliability by decreasing the operating hours of the compressor and the condenser fan. The ComPac I and ComPac II air conditioners are problem solvers for a wide range of conditions and applications. To insure proper operation and optimum performance, all economizers are non-removable, factory installed and tested. In addition, factory and field installed accessories can be used to meet specific requirements.

The ComPac® I and ComPac® II air conditioners are listed by ETL and manufactured and tested to UL Standard 1995, 2nd Ed. and CAN/CSA C22.2 No. 236-95, 2nd Ed. The AVPC models are commercial units and not intended for residential use.



AVP36ACA-10C



Standard Features

Designed for Operation in Low Ambient Conditions

- Low ambient control cycles condenser fan to maintain proper refrigerant pressures.
- Three minute by-pass of the low pressure switch for start-up of compressor when outdoor temperatures are below 55°F (13°C).
- Factory built-in economizer.*

High Efficiency

- High efficiency compressor.
- Lanced fins and rifled tubing on many condenser & evaporator coils.

Built-in Reliability

- High pressure switch and low pressure switch with lockout protects refrigerant circuit.
- Three minute delay on break for short cycle protection.

Remote Alarm Capability

- Dry contacts can be used for remote alarm or notification upon air conditioner lockout.

Ease of Installation

- Sloped top with flashing eliminates need of rainhood.

(continued on page 2)

*ComPac® II air conditioner only

Standard Features (cont'd)

Ease of Installation

- Built-in mounting flanges facilitate installation and minimize chance of water leaks.
- Supply and return openings exactly match previous models.
- Factory installed disconnect on all 208/230v units, optional 460V units.
- Outside air hood is standard.

Rugged Construction

- Copper tube, aluminum fin evaporator & condenser coils.
- Factory installed heaters on discharge side of evaporator coil (optional)

- Baked on neutral beige finish over galvanneal steel for maximum cabinet life. (Other finishes are available.)

Ease of Service

- Service access valves are standard.
- Standard 2" (50 mm) pleated filter changeable from outside.
- All major components are readily accessible.
- Front Control Panel allows easy access and complies with NEC clearance codes on redundant side-by-side systems.
- LEDs indicate operational status and fault conditions.

A Marvair® First – Factory Installed Economizer

Marvair's ComPac® II air conditioner has been the industry standard since its introduction in 1986. Tens of thousands of ComPac II air conditioners are in operation from the metropolitan areas of North America to the deserts of the Mid-East to the Siberian tundra. Here's how the economizer works:

On a signal from the wall mounted indoor thermostat that cooling is required, either mechanical cooling with the compressor or free cooling with the economizer is provided. A factory installed enthalpy controller determines whether the outside air is sufficiently cool and dry to be used for cooling. If suitable, the compressor is locked out and the economizer damper opens to bring in outside air. Integral pressure relief allows the interior air to exit the shelter, permitting outside air to enter the shelter. The temperature at which the economizer opens

is adjustable from 53°F (12°C) at 50% Relative Humidity to 78°F (26°C) at 50% Relative Humidity.

After the enthalpy control has activated and outside air is being brought into the building, the mixed air sensor measures the temperature of the air entering the indoor blower and then modulates the economizer damper to mix the right proportion of cool outside air with warm indoor air to maintain 50-56°F (10 - 13°C) air being delivered to the building. This prevents shocking the electronic components with cold outside air. The compressor is not permitted to operate when the economizer is functioning.

If the outside air becomes too hot or humid, the economizer damper closes completely, or to a minimum open position with an optional minimum position potentiometer, and mechanical cooling is activated.

Controllers and Thermostats

Controllers

CommStat™ 3 Lead/Lag Microprocessor Controller
P/N S/04581

Solid state controller designed to operate a fully or partially redundant air conditioning system. Insures equal wear on both air conditioners while allowing the lag unit to assist upon demand. Lead/ lag changeover is factory set at 7 days, but is field programmable in 1/2 day increments from 1/2 to 7 days. The CommStat 3 Controller has LED's to indicate status & function, digital display of temperature, a comfort override button for energy savings, five alarm relays, a built in temperature sensor and is fully programmable. See CommStat 3 Controller Product Data Sheet for details on operation & installation.

LL357D4 Lead/Lag Controller P/N S/07529

Two stage heat and cool thermostat with solid state module for redundant operation with adjustable (2°F-9°F (1.0°C - 4.5°C)) interstage differential. (See the LL357D4 Product Data Sheet for details.)

Thermostats & Thermostat Guards

Thermostat P/N 50123

Digital thermostat. 1 stage heat, 1 stage cool. 7 day programmable. Fan switch: Auto & On. Auto-change over. Keypad lockout. Non-volatile program memory.

Thermostat P/N 50107

Digital non-programmable 1 stage heat and 1 stage cool, auto-changeover.

Thermostat Guard P/N 50092

Thermostat guard for use with the 50123 and 50107 thermostats.

Accessories

Supply Grilles

For 24

20" x 8" (508 mm x 203 mm) P/N 80674

For 30,36

28" x 8" (711 mm x 203 mm) P/N 80675

For 42,48,60,72

30" x 10" (762 mm x 254 mm) P/N 80676

Return Grilles

For 24

20" x 12" (508 mm x 305 mm) P/N 80677

For 30,36

28" x 14" (711 mm x 356 mm) P/N 80678

For 42,48,60,72

30" x 16" (762 mm x 406 mm) P/N 80679

Options

The ComPac® I and ComPac® II air conditioners were designed and are built to stringent requirements of the communications/electronic shelter. Applications occur that have special requirements. Numerous options are available for the ComPac I and ComPac II air conditioners that meet these special needs.

Dehumidification – ComPac® I and ComPac® II A/C – Humidity controller overrides thermostat and allows electric heat to operate simultaneously with cooling. See Dehumidification Application Bulletin for details. Note: The electrical characteristics and requirements of air conditioners with the dehumidification option are different from standard air conditioners. Refer to the appropriate Summary Rating Charts for the electrical characteristics of units with Electric Reheat.

Coastal Environment Package – ComPac® I A/C only – Recommended for units to be installed near an ocean or on seacoast. Includes corrosion resistant fasteners, sealed condenser fan motor, protective coating applied to all exposed internal copper in the condenser section and an impregnated polyurethane coating on the condenser coil. See Coastal Environmental Technical Bulletin for more details.

Economizer Damper Control – ComPac® II A/C only – A minimum position potentiometer that can be adjusted to prevent the economizer damper from closing completely. This control ensures that whenever the evaporator fan is operating, fresh air is being introduced into the building. Field or factory installed.

High Filtration – ComPac® I A/C - Units are built with up to 65% efficient filters. Filters are rated according to ASHRAE Dust Spot Test. ComPac II units have a prefilter on outside air. Not to be used with HEPA or absolute filters.

Cabinet Color and Stainless Steel Cabinet

- ComPac® I and ComPac® II air conditioners are available in five different cabinet colors -the standard Marvair® beige and white, gray, brown and dark bronze. The standard cabinet's sides, top and front panels are constructed of 20 gauge painted steel. As an option, these panels can be built of 16 gauge steel in beige & gray or .050 stucco aluminum. When

Return Filter Grilles

Used when filter must be changed from the interior. Not recommended for ComPac® II air conditioner. Note: Filter used in Return Filter Grille is 1" (25 mm) thick.

For 24

20" x 12" (508 mm x 305 mm) P/N 80671

For 30,36

28" x 14" (711 mm x 356 mm) P/N 80672

For 42,48,60,72

30" x 16" (762 mm x 406 mm) P/N 80673

the 16 gauge painted steel or the aluminum is used, only the side, top and front panels are 16 gauge or aluminum. Contact your Marvair representative for color chips. The entire cabinet can also be constructed of stainless steel. When the stainless steel cabinet is ordered, the top, sides, front panels, back panel and all internal cabinet steel are stainless or only the exterior panels.

Protective Coil Coatings - Two coil coatings are offered. Either the condenser or evaporator coil can be coated, however, coating of the evaporator coil is not common. For harsh conditions, e.g., power plants, paper mills or sites where the unit will be exposed to salt water, the coil should be coated with either an impregnated polyurethane (trade name BlyGold®). The impregnated polyurethane coatings is sprayed on and passes 3,000 hours of B117 salt fog test. Note: Cooling capacity may be reduced by up to 5% on units with coated coils.

Factory Installed Disconnects on 460V and 380V Units - Factory installed disconnects are standard on all 208-230V, 2 through 6 ton units. As an option, all 460V. units may be ordered with a disconnect.

Phase Monitor and High and Low Voltage

Detector - Can be used on all 3Ø scroll compressors. Detects if the unit is properly phased and if proper voltage is present. If it is not, it will not allow the compressor to operate. See Phase Monitor Technical Bulletin for complete details.

Right & Left Side Compressor Configuration

- The air conditioners can be built with the compressor on the opposite side to facilitate service access when two units are installed side by side. In the 24-30-36, the standard location for the compressor is on the right hand side. In the 42-48-60, the standard location for the compressor is on the left hand side. In the 72, the compressor is accessed from the front of the unit and an opposing configuration is not required.

Compressor Sound Jacket - Reduces compressor sound levels. Constructed of 0.75 lb density loaded vinyl with an acoustical non-woven sound absorber.

Washable Return Air Filters

Control Box

The internal control board in the ComPac® air conditioners simplifies wiring, consolidates several of the electrical functions onto one device and improves the reliability of the air conditioner. In addition, the control board has LED's that indicate operational status and fault conditions.

LED Indicator Lights

COLOR	TYPE	STATUS	DESCRIPTION
Green	Power	Constant On	24 VAC power has been applied
Red	Status	Constant On	Normal operation
		1 Blink	High pressure switch has opened twice
		2 Blinks	Low pressure switch has opened twice
		3 Blinks	Freeze stat (optional) - indoor coil temperature is below 35°F (1°C)

Modes of Operation

Normal Start-up: On a call for cooling, and the with the high pressure switch closed, the cooling system (compressor, indoor blower motor and outdoor fan motor) will be energized. (Note: See the Delay on Make feature). The cooling system will remain energized during the three minute low pressure switch bypass cycle. If the low pressure is closed, the cooling system will continue to operate after the three-minute bypass. If the low pressure switch is open after the three-minute bypass, the cooling system will be de-energized.

Lockout Mode: If either the high or low pressure switch opens twice, the control board enters into the lockout mode. In the lockout mode, the compressor is turned off, the alarm output is energized and the status LED's will blink to indicate which fault has occurred. If there is a call for air flow, the indoor blower will remain energized. When the lockout condition has cleared, the unit will reset if the demand of the thermostat is removed or when power is reset. The ComPac® air conditioners are factory wired for normally open contacts. The user can now have normally closed contacts by moving a wire on the control board.

Delay on Make: On initial power up or on resumption of power, the air conditioner will wait .03 to 10 minutes from a call for cooling before allowing the contactor to energize.

Model Identification

AVP

Air
Source
Vertical
Package

AC

Nominal Cooling
24 = 24,000 BTUH
30 = 29,400 BTUH
36 = 35,000 BTUH
42 = 42,500 BTUH
48 = 48,000 BTUH
60 = 56,000 BTUH
72 = 72,000 BTUH

Refrigerant
C = R-407c

System Type
Air Conditioner

Power Supply
A = 208/230V,1ø,60Hz
C = 208.230V,3ø,60Hz
D = 460V,3ø,60Hz
E = 380V,3ø,50Hz
F = 220V,1ø,50Hz
G = 220V,3ø,50Hz

Special Option Code
R = Electric Reheat
U = Scroll Comp
D = Extreme Duty-
ComPac I units
E = Extreme Duty-
ComPac II units

Configuration
N = ComPac® I A/C
C = ComPac® II A/C

Electric Heat – kW
00 = No Heat 090 = 9 kW
040 = 4 kW 100 = 10 kW
050 = 5 kW 150 = 15 kW
080 = 8 kW

PERFORMANCE AND ELECTRICAL - 60 HZ UNITS

Performance Chart - 60 Hz Units

Data based on 80°F(26.5°C) DB/67°F (19.5°C) WB Return Air AT VARIOUS OUTDOOR TEMPERATURES AT RATED CFM

Model	70°F/21°C	75°F/24°C	80°F/26.5°C	85°F/29.5°C	90°F/32°C	95°F/35°C	100°F/38°C	105°F/40.5°C	110°F / 43.5°C	115°F / 46°C	120°F / 49°C
24	28,800	27,840	26,880	25,920	24,960	24,000	23,040	22,080	21,120	20,640	20,160
30	35,280	34,104	32,928	31,752	30,576	29,400	28,224	27,048	25,872	25,284	24,696
36	42,720	41,296	39,872	38,448	37,024	35,600	34,176	32,752	31,328	30,616	29,904
42	49,800	48,140	46,480	44,820	43,160	41,500	39,840	38,180	36,520	35,690	34,860
48	57,600	55,680	53,760	51,840	49,920	48,000	46,080	44,160	42,240	41,280	40,320
60	68,400	66,120	63,840	61,560	59,280	57,000	54,720	52,440	50,160	49,020	47,880
72 (10)	76,800	74,240	71,680	69,120	66,560	64,000	61,440	58,880	56,320	55,040	53,760
72 (30)	85,200	82,360	79,520	76,680	73,840	71,000	68,160	65,320	62,480	61,060	59,640

Note: The capacity of the AVP72ACC (3 phase) air conditioner will be 2,000 Btu/Hr lower at 208 volts.

Sensible Total Ratio @95°F (35°C) Outside Air DB - 60 Hz. Units

MODEL	24AC	30AC	36AC	42AC	48AC	60AC	72AC (1 Ph)	72AC (3 Ph)
TOTAL CAPACITY	24,000	29,400	35,600	41,500	48,000	57,000	64,000	71,000
SENSIBLE HEAT RATIO	0.76	0.78	0.76	0.8	0.8	0.8	0.8	0.72
SENSIBLE CAPACITY	18,120	22,785	27,056	33,200	38,400	45,600	51,200	51,100
RATED CFM	840	1,000	1,220	1,520	1,760	1,850	2,200	1,950
ESP	0.10	0.15	0.15	0.15	0.20	0.20	0.20	0.25

Sensible ratios based on ARI Standard 210 Indoor Conditions of 80°F (27°C) DB/67°F (19.5°C) WB.

CFM @ ESP (Wet Coil) - 60 Hz Units

MODEL	0.10	0.20	0.25	0.30	0.40	0.50
24	860	810	740	670		
30	1100	1000	960	920	810	
36	1310	1220	1185	1150	1060	
42		1650	1585	1520	1450	1360
48		1900	1830	1760	1700	1620
60		1900	1830	1760	1700	1620
72		2100	1950	1800	1730	1660

Air flow ratings of 208-230 volt units are at 230v. Air flow ratings of 460 volt units are at 460 volts. Operation of units at a voltage different from the rating point will affect air flow.

Electrical Characteristics - 60 Hz Units

BASIC MODEL	COMPRESSOR				OUTDOOR FAN MOTOR				INDOOR FAN MOTOR			
	VOLTS-HZ-PH	RLA ¹	LRA ²	MCC ³	VOLTS	RPM ⁴	FLA ⁵	HP ⁶	VOLTS	RPM ⁴	FLA ⁵	HP ⁶
AVPC24ACA	208/230-60-1	10.2	56.0	16.0	208/230-60-1	1075	1.5	1/5	208/230-60-1	1075	1.5	1/5
AVPC30ACA	208/230-60-1	13.4	72.5	21.0	208/230-60-1	1075	1.8	1/4	208/230-60-1	1075	2.5	1/4
AVPC36ACA	208/230-60-1	16.0	88.0	25.0	208/230-60-1	1075	1.8	1/4	208/230-60-1	1075	2.5	1/4
AVPC42ACA	208/230-60-1	17.9	104.0	28.0	208/230-60-1	825	2.8	1/3	208/230-60-1	1075	3.1	1/2
AVPC48ACA	208/230-60-1	19.2	137.0	30.0	208/230-60-1	825	2.8	1/3	208/230-60-1	1075	3.1	1/2
AVPC60ACA	208/230-60-1	28.8	169.0	45.0	208/230-60-1	825	2.8	1/3	208/230-60-1	1075	5.2	3/4
AVPC72ACA	208/230-60-1	28.8	176.0	45.0	208/230-60-1	825	2.9	1/2	208/230-60-1	1075	5.2	3/4
AVPC24ACC	208/230-60-3	7.0	48.0	11.0	208/230-60-1	1075	1.5	1/5	208/230-60-1	1075	1.5	1/5
AVPC30ACC	208/230-60-3	9.0	70.0	14.0	208/230-60-1	1075	1.8	1/4	208/230-60-1	1075	2.5	1/4
AVPC36ACC	208/230-60-3	10.2	77.0	16.0	208/230-60-1	1075	1.8	1/4	208/230-60-1	1075	2.5	1/4
AVPC42ACC	208/230-60-3	12.4	88.0	19.4	208/230-60-1	825	2.8	1/3	208/230-60-1	1075	3.1	1/2
AVPC48ACC	208/230-60-3	14.7	91.0	23.0	208/230-60-1	825	2.8	1/3	208/230-60-1	1075	3.1	1/2
AVPC60ACC	208/230-60-3	17.3	123.0	27.0	208/230-60-1	825	2.8	1/3	208/230-60-1	1075	5.2	3/4
AVPC72ACC	208/230-60-3	18.6	156.0	29.0	208/230-60-1	825	2.9	1/2	208/230-60-1	1075	5.2	3/4
AVPC24ACD	460-60-3	3.5	22.4	5.5	208/230-60-1	1075	1.5	1/5	208/230-60-1	1075	1.5	1/5
AVPC30ACD	460-60-3	4.5	31.0	7.0	208/230-60-1	1075	1.8	1/4	208/230-60-1	1075	2.5	1/4
AVPC36ACD	460-60-3	5.1	39.0	8.0	208/230-60-1	1075	1.8	1/4	208/230-60-1	1075	2.5	1/4
AVPC42ACD	460-60-3	5.8	44.0	9.0	208/230-60-1	825	2.8	1/3	208/230-60-1	1075	3.1	1/2
AVPC48ACD	460-60-3	7.0	50.0	11.0	208/230-60-1	825	2.8	1/3	208/230-60-1	1075	3.1	1/2
AVPC60ACD	460-60-3	9.0	62.0	14.0	208/230-60-1	825	2.8	1/3	208/230-60-1	1075	5.2	3/4
AVPC72ACD	460-60-3	9.0	75.0	14.0	208/230-60-1	825	2.9	1/2	208/230-60-1	1075	5.2	3/4

¹RLA = Rated Load Amps

²LRA = Locked Rotor Amps

³MCC = Maximum Continuous Current

⁴RPM = Revolutions per Minute

⁵FLA = Full Load Amps

⁶HP = Horsepower

All 460v. units have a step down transformer for the 230v. motors.

Summary Ratings - 60 Hz Units

ELECTRIC HEAT		000 = None		040 = 4 kw		050 = 5 kw		060 = 6 kw		080 = 8 kw		090 = 9 kw		100 = 10 kw		120 = 12 kw				150 = 15 kw			
BASIC MODEL	VOLTAGE PHASE	CKT #1		CKT #1		CKT #1		CKT #1		CKT #1		CKT #1		CKT #1		CKT #1		CKT #2		CKT #1		CKT #2	
		MCA	MFS	MCA	MFS	MCA	MFS	MCA	MFS	MCA	MFS	MCA	MFS	MCA	MFS	MCA	MFS	MCA	MFS	MCA	MFS	MCA	MFS
AVPC24ACA	208-230/1	15.8	25	22.4	25	27.5	30	32.8	35	43.2	45			53.6	60								
AVPC30ACA	208-230/1	21.1	30	23.4	30	28.5	30	33.8	35	44.2	45			54.6	60	23.4	30	41.6	45	28.5	30	52.1	60
AVPC36ACA	208-230/1	24.3	40	24.3	40	28.5	40	33.8	40	44.2	45			54.6	60	24.3	40	41.6	45	28.5	40	52.1	60
AVPC42ACA	208-230/1	28.3	45			29.1	45							55.2	60	28.3	45	41.6	45	29.1	45	52.1	60
AVPC48ACA	208-230/1	29.9	45			29.9	45							55.2	60	29.9	45	41.6	45	29.9	45	52.1	60
AVPC60ACA	208-230/1	44.0	60			44.0	60							57.3	60	44.0	60	41.6	45	44.0	60	52.1	60
AVPC72ACA	208-230/1	44.0	60			44.0	60							57.3	60	44.0	60	41.6	45	44.0	60	52.1	60
AVPC24ACC	208-230/3	11.8	15					19.5	20			28.6	30			37.6	40						
AVPC30ACC	208-230/3	15.6	20					20.5	25			29.6	30			38.6	40			47.6	50		
AVPC36ACC	208-230/3	17.1	25					20.5	25			29.6	30			38.6	40			47.6	50		
AVPC42ACC	208-230/3	21.4	30					21.4	30			30.2	35			39.2	40			48.2	50		
AVPC48ACC	208-230/3	24.3	35					24.3	35			30.2	35			39.2	40			48.2	50		
AVPC60ACC	208-230/3	29.6	45					29.6	45			32.3	45			41.3	45			50.3	60		
AVPC72ACC	208-230/3	31.3	45					31.3	45			32.3	45			41.3	45			50.3	60		
AVPC24ACD	460/3	5.9	15					9.8	15			14.3	15			18.8	20			23.3	25		
AVPC30ACD	460/3	7.8	15					10.3	15			14.8	15			19.3	20			23.8	25		
AVPC36ACD	460/3	9.3	15					10.3	15			14.8	15			19.3	20			23.8	25		
AVPC42ACD	460/3	10.2	15					10.6	15			15.1	20			19.6	20			24.1	25		
AVPC48ACD	460/3	11.7	15					10.6	15			15.1	20			19.6	20			24.1	25		
AVPC60ACD	460/3	15.3	20					15.3	20			16.1	20			20.6	25			25.1	30		
AVPC72ACD	460/3	15.3	20					15.3	20			16.1	20			20.6	25			25.1	30		

The above chart should be used as a general guideline for estimating conductor size and overcurrent protection for the unit models listed. For specific requirements, refer to the data label attached to the unit cabinet.
MCA = Minimum Circuit Ampacity (Wiring Size Amps) MFS = Maximum External Fuse or External HACR Circuit Breaker Size.

Summary Ratings with Electric Reheat - 60 Hz Units

ELECTRIC HEAT		000 = None		040 = 4 kw		050 = 5 kw				060 = 6 kw		090 = 9 kw		100 = 10 kw				120 = 12 kw 8 kw Reheat (ACA)				150 = 15 kw 10 kw Reheat (ACA)			
BASIC MODEL	VOLTAGE PHASE	CKT #1		CKT #1		CKT #1		CKT #2		CKT #1		CKT #1		CKT #1		CKT #2		CKT #1		CKT #2		CKT #1		CKT #2	
		MCA	MFS	MCA	MFS	MCA	MFS	MCA	MFS	MCA	MFS	MCA	MFS	MCA	MFS	MCA	MFS	MCA	MFS	MCA	MFS	MCA	MFS	MCA	MFS
AVPC24ACA	208-230/1	15.8	25	36.6	40	41.8	45			47.0	50			15.8	25	52.1	60								
AVPC30ACA	208-230/1	21.1	30	41.9	45	47.1	50			52.3	60			21.1	30	52.1	60	21.1	30	41.6	45	28.5	30	52.1	60
AVPC36ACA	208-230/1	24.3	40	45.2	50	50.3	60			55.6	60			24.3	40	52.1	60	24.3	40	41.6	45	28.5	40	52.1	60
AVPC42ACA	208-230/1	28.3	45			28.3	45	26.0	30					28.3	45	52.1	60	28.3	45	41.6	45	29.1	45	52.1	60
AVPC48ACA	208-230/1	29.9	45			29.9	45	26.0	30					29.9	45	52.1	60	29.9	45	41.6	45	29.9	45	52.1	60
AVPC60ACA	208-230/1	44.0	60			44.0	60	26.0	30					44.0	60	52.1	60	44.0	60	41.6	45	44.0	60	52.1	60
AVPC72ACA	208-230/1	44.0	60			44.0	60	26.0	30					44.0	60	52.1	60	44.0	60	41.6	45	44.0	60	52.1	60
AVPC24ACC	208-230/3	11.8	15							29.8	30	38.9	40					47.9	50			11.8	15	45.1	50
AVPC30ACC	208-230/3	15.6	20							33.6	35	42.7	45					51.7	60			15.6	20	45.1	50
AVPC36ACC	208-230/3	17.1	25							35.1	40	44.2	45					54.8	60			17.1	25	45.1	50
AVPC42ACC	208-230/3	21.4	30							39.4	40	48.5	50					21.4	30	36.1	40	21.4	30	45.1	50
AVPC48ACC	208-230/3	24.3	35							42.3	45	51.4	60					24.3	35	36.1	40	24.3	35	45.1	50
AVPC60ACC	208-230/3	29.6	45							47.6	50	56.8	60					29.6	45	36.1	40	29.6	45	45.1	50
AVPC72ACC	208-230/3	31.3	45							49.4	50	58.5	60					31.3	45	36.1	40	31.3	45	45.1	50
AVPC24ACD	460/3	5.9	15							14.9	15	19.4	20					23.9	25			28.4	30		
AVPC30ACD	460/3	7.8	15							16.8	20	21.3	25					25.8	30			30.3	35		
AVPC36ACD	460/3	9.3	15							17.5	20	22.0	25					26.5	30			31.0	35		
AVPC42ACD	460/3	10.2	15							19.2	20	23.7	25					28.2	30			32.7	35		
AVPC48ACD	460/3	11.7	15							20.7	25	26.3	30					29.7	30			34.2	35		
AVPC60ACD	460/3	15.3	20							24.3	25	28.8	30					33.3	35			37.8	40		
AVPC72ACD	460/3	15.3	20							24.3	25	28.8	30					33.3	40			37.8	40		

MCA = Maximum Continuous Current (Wiring Size Amps) MFS = Maximum Fuse Size or HACR Circuit Breaker MCA & MFS calculated at 240V. for "A" & "C" models.
For 460v. units ("D" models), MCA & MFS calculated at 460v. All 460v. units have a step down transformer for 230v. motors.

Unit Load Amps - 60 Hz Units

BASIC MODEL NUMBER	VOLTAGE PHASE HERTZ	CURRENT AMPS		LOAD OF RESISTIVE HEATING ELEMENTS ONLY (AMPS)										TOTAL MAXIMUM HEATING AMPS (STANDARD UNIT)									
				AC	IBM	2.2 kW	04 kW	05 kW	06 kW	08 kW	09 kW	10 kW	12 kW	15 kW	2.2 kW	04 Kw	05 Kw	06 Kw	08 Kw	09 Kw	10 Kw	12 Kw	15 Kw
AVPC24ACA	208-230/1/60	13.2	1.5	n/a	16.7	20.8	25.0	33.3	n/a	41.7	n/a	n/a	n/a	n/a	n/a	18.2	22.3	26.5	34.8	n/a	43.2	n/a	n/a
AVPC30ACA	208-230/1/60	17.7	2.5	n/a	16.7	20.8	25.0	33.3	n/a	41.7	50.0	62.5	n/a	n/a	n/a	19.2	23.3	27.5	35.8	n/a	44.2	52.5	65.0
AVPC36ACA	208-230/1/60	20.3	2.5	n/a	16.7	20.8	25.0	33.3	n/a	41.7	50.0	62.5	n/a	n/a	n/a	19.2	23.3	27.5	35.8	n/a	44.2	52.5	65.0
AVPC42ACA	208-230/1/60	23.8	3.1	n/a	n/a	20.8	n/a	n/a	n/a	41.7	50.0	62.5	n/a	n/a	n/a	n/a	23.9	n/a	n/a	n/a	44.8	53.1	65.6
AVPC48ACA	208-230/1/60	25.1	3.1	n/a	n/a	20.8	n/a	n/a	n/a	41.7	50.0	62.5	n/a	n/a	n/a	n/a	23.9	n/a	n/a	n/a	44.8	53.1	65.6
AVPC60ACA	208-230/1/60	36.8	5.2	n/a	n/a	20.8	n/a	n/a	n/a	41.7	50.0	62.5	n/a	n/a	n/a	n/a	26.0	n/a	n/a	n/a	46.9	55.2	67.7
AVPC72ACA	208-230/1/60	36.8	5.2	n/a	n/a	20.8	n/a	n/a	n/a	41.7	50.0	62.5	n/a	n/a	n/a	n/a	26.0	n/a	n/a	n/a	46.9	55.2	67.7
AVPC24ACC	208-230/3/60	10.0	1.5	n/a	n/a	n/a	14.4	n/a	21.7	n/a	28.9	36.1	n/a	n/a	n/a	n/a	n/a	15.9	n/a	23.2	n/a	30.4	37.6
AVPC30ACC	208-230/3/60	13.3	2.5	n/a	n/a	n/a	14.4	n/a	21.7	n/a	28.9	36.1	n/a	n/a	n/a	n/a	n/a	16.9	n/a	24.2	n/a	31.4	38.6
AVPC36ACC	208-230/3/60	14.5	2.5	n/a	n/a	n/a	14.4	n/a	21.7	n/a	28.9	36.1	n/a	n/a	n/a	n/a	n/a	16.9	n/a	24.2	n/a	31.4	38.6
AVPC42ACC	208-230/3/60	18.3	3.1	n/a	n/a	n/a	14.4	n/a	21.7	n/a	28.9	36.1	n/a	n/a	n/a	n/a	n/a	17.5	n/a	24.8	n/a	32.0	39.2
AVPC48ACC	208-230/3/60	20.6	3.1	n/a	n/a	n/a	14.4	n/a	21.7	n/a	28.9	36.1	n/a	n/a	n/a	n/a	n/a	17.5	n/a	24.8	n/a	32.0	39.2
AVPC60ACC	208-230/3/60	25.3	5.2	n/a	n/a	n/a	14.4	n/a	21.7	n/a	28.9	36.1	n/a	n/a	n/a	n/a	n/a	19.6	n/a	26.9	n/a	34.1	41.3
AVPC72ACC	208-230/3/60	26.6	5.2	n/a	n/a	n/a	14.4	n/a	21.7	n/a	28.9	36.1	n/a	n/a	n/a	n/a	n/a	19.6	n/a	26.9	n/a	34.1	41.3
AVPC24ACD	460/3/60	5.0	0.8	n/a	n/a	n/a	7.2	n/a	10.8	n/a	14.4	18.0	n/a	n/a	n/a	n/a	n/a	8.0	n/a	11.6	n/a	15.2	18.8
AVPC30ACD	460/3/60	6.7	1.3	n/a	n/a	n/a	7.2	n/a	10.8	n/a	14.4	18.0	n/a	n/a	n/a	n/a	n/a	8.5	n/a	12.1	n/a	15.7	19.3
AVPC36ACD	460/3/60	7.3	1.3	n/a	n/a	n/a	7.2	n/a	10.8	n/a	14.4	18.0	n/a	n/a	n/a	n/a	n/a	8.5	n/a	12.1	n/a	15.7	19.3
AVPC42ACD	460/3/60	8.8	1.6	n/a	n/a	n/a	7.2	n/a	10.8	n/a	14.4	18.0	n/a	n/a	n/a	n/a	n/a	8.8	n/a	12.4	n/a	16.0	19.6
AVPC48ACD	460/3/60	10.0	1.6	n/a	n/a	n/a	7.2	n/a	10.8	n/a	14.4	18.0	n/a	n/a	n/a	n/a	n/a	8.8	n/a	12.4	n/a	16.0	19.6
AVPC60ACD	460/3/60	13.0	2.6	n/a	n/a	n/a	7.2	n/a	10.8	n/a	14.4	18.0	n/a	n/a	n/a	n/a	n/a	9.8	n/a	13.4	n/a	17.0	20.6
AVPC72ACD	460/3/60	13.0	2.6	n/a	n/a	n/a	7.2	n/a	10.8	n/a	14.4	18.0	n/a	n/a	n/a	n/a	n/a	9.8	n/a	13.4	n/a	17.0	20.6

Heating kW shown at 240v. for "A" & "C" models. Derate heat output by 25% for operation on 208v. Total heating amps for all ACA units with 15 kW includes both circuits (#1 & #2). Heater kW shown at 480v. for all "D" models. Three phase units contain single phase motor loads. Values shown are maximum phase loads. Loads are not equally balanced on each phase. Total cooling and heating amps include motor loads.

PERFORMANCE AND ELECTRICAL - 50 HZ UNITS

Performance Chart (BTUH/kW) - 50 Hz Units

Data based on 26.5°C DB/19.5°C WB Return Air AT VARIOUS OUTDOOR TEMPERATURES AT RATED AIR FLOW

MODEL	21°C	24°C	26.5°C	29.5°C	32°C	35°C	38°C	40.5°C	43.5°C	46°C	49°C
24	21,800/6.38	21,600/6.33	21,400/6.26	20,800/6.08	20,400/5.96	20,000/5.86	19,200/5.62	18,800/5.50	18,300/5.35	17,600/5.16	16,600/4.86
30	28,000/8.21	21,600/6.33	26,900/7.89	26,000/7.62	25,300/7.40	24,500/7.18	23,800/6.96	23,400/6.84	22,600/6.62	21,900/6.40	20,400/5.99
36	32,600/9.53	32,300/9.46	31,900/9.33	31,000/9.09	30,100/8.82	29,700/8.70	28,600/8.38	27,900/8.16	27,000/7.92	26,000/7.62	25,100/7.36
42	39,900/11.70	38,500/11.29	38,000/11.14	37,200/10.90	35,900/10.51	34,600/10.14	33,300/9.75	31,600/9.26	29,400/8.60	27,500/8.06	25,900/7.58
48	44,300/12.98	43,300/12.68	42,300/12.39	41,500/12.14	40,800/11.95	40,000/11.73	37,900/11.12	35,700/10.46	33,800/9.90	32,200/9.43	30,400/8.92
60	52,600/15.42	51,400/15.05	50,200/14.71	49,200/14.42	48,500/14.20	47,500/13.93	44,700/13.10	42,300/12.39	39,900/11.70	38,000/11.14	36,100/10.58
72 (1Ø)	63,740/18.67	89,400/26.2	59,500/17.43	57,370/16.80	55,250/16.18	53,120/15.56	51,000/14.94	48,870/14.31	46,750/13.69	45,680/13.38	44,620/13.07
72 (3Ø)	70,710/20.71	95,800/28.06	66,000/19.33	63,640/18.64	61,290/17.95	58,930/17.26	56,570/16.59	54,220/15.88	51,860/15.19	50,680/14.48	49,500/14.50

Sensible Total Ratio @ 35°C Outside Air DB (BTUH/kW) - 50 Hz Units

MODEL	24	30	36	42	48	60	72 (1Ø)	72 (3Ø)
TOTAL CAPACITY (BTUH/kW)	20,000/5.86	24,500/7.18	29,700/8.70	34,600/10.14	40,000/11.73	47,500/13.93	53,120/15.56	58,930/17.26
SENSIBLE HEAT RATIO	0.76	0.78	0.76	0.80	0.80	0.80	0.80	0.80
SENSIBLE CAPACITY (BTUH/kW)	15,200/4.45	19,100/5.60	22,600/6.61	27,700/8.11	32,000/9.38	38,000/11.14	42,496/12.45	47,144/13.81

Sensible ratios based on Indoor Conditions of 27°C DB/19.5°C WB.

Air Volume M³/Hr (CFM) at Various Statics - 50 Hz Units

Model	25 Pa/.10 IWG	50 Pa/.20 IWG	75 Pa/.30 IWG	100 Pa/.40 IWG	125 Pa/.50 IWG
24	1,210/715	1,145/670	945/556	---	---
30	1,550/915	1,410/830	1,300/765	1,145/670	---
36	1,850/1,085	1,720/1,015	1,625/955	1,495/880	---
42	---	2,330/1,370	2,145/1,260	2,045/1,200	1,920/1,130
48	---	2,680/1,580	2,480/1,460	2,400/1,410	2,290/1,340
60	---	2,680/1,580	2,480/1,460	2,400/1,410	2,290/1,350
72	---	2,960/1,740	2,540/1,490	2,440/1,440	2,340/1,380

Electrical Characteristics - 50 Hz Units

BASIC MODEL	COMPRESSOR				OUTDOOR FAN MOTOR				INDOOR FAN MOTOR			
	VOLTS-HZ-PH	RLA ¹	LRA ²	MCC ³	VOLTS	RPM ⁴	FLA ⁵	HP ⁶	VOLTS	RPM ⁴	FLA ⁵	HP ⁶
AVPC24ACF	220-50-1	8.6	52.0	13.5	220-50-1	1075	1.5	1/5	220-50-1	1075	1.5	1/5
AVPC30ACF	220-50-1	11.5	61.0	18.0	220-50-1	1075	1.8	1/4	220-50-1	1075	2.5	1/4
AVPC36ACF	220-50-1	12.2	76.0	19.0	220-50-1	1075	1.8	1/4	220-50-1	1075	2.5	1/4
AVPC42ACF	220-50-1	15.4	100.0	24.0	220-50-1	825	2.8	1/3	220-50-1	1075	3.1	1/2
AVPC48ACF	220-50-1	17.3	114.0	27.0	220-50-1	825	2.8	1/3	220-50-1	1075	3.1	1/2
AVPC60ACF	220-50-1	25.6	150.0	40.0	220-50-1	825	2.8	1/3	220-50-1	1075	5.2	3/4
AVPC24ACG	220-50-3	7.0	48.0	11.0	220-50-1	1075	1.5	1/5	220-50-1	1075	1.5	1/5
AVPC30ACG	220-50-3	9.0	70.0	14.0	220-50-1	1075	1.8	1/4	220-50-1	1075	2.5	1/4
AVPC36ACG	220-50-3	10.2	77.0	16.0	220-50-1	1075	1.8	1/4	220-50-1	1075	2.5	1/4
AVPC42ACG	220-50-3	12.4	88.0	19.4	220-50-1	825	2.8	1/3	220-50-1	1075	3.1	1/2
AVPC48ACG	220-50-3	14.7	91.0	23.0	220-50-1	825	2.8	1/3	220-50-1	1075	3.1	1/2
AVPC60ACG	220-50-3	17.3	123.0	27.0	220-50-1	825	2.8	1/3	220-50-1	1075	5.2	3/4
AVPC72ACG	220-50-3	18.6	156.0	29.0	220-50-1	825	2.9	1/2	220-50-1	1075	5.2	3/4
AVPC24ACE	380-50-3 (4 Wire)	3.5	22.4	5.5	220-50-1	1075	1.5	1/5	220-50-1	1075	1.5	1/5
AVPC30ACE	380-50-3 (4 Wire)	4.5	31.0	7.0	220-50-1	1075	1.8	1/4	220-50-1	1075	2.5	1/4
AVPC36ACE	380-50-3 (4 Wire)	5.1	39.0	8.0	220-50-1	1075	1.8	1/4	220-50-1	1075	2.5	1/4
AVPC42ACE	380-50-3 (4 Wire)	5.8	44.0	9.0	220-50-1	825	2.8	1/3	220-50-1	1075	3.1	1/2
AVPC48ACE	380-50-3 (4 Wire)	7.0	50.0	11.0	220-50-1	825	2.8	1/3	220-50-1	1075	3.1	1/2
AVPC60ACE	380-50-3 (4 Wire)	9.0	62.0	14.0	220-50-1	825	2.8	1/3	220-50-1	1075	5.2	3/4
AVPC72ACE	380-50-3 (4 Wire)	9.0	75.0	14.0	220-50-1	825	2.9	1/2	220-50-1	1075	5.2	3/4

¹RLA = Rated Load Amps

²LRA = Locked Rotor Amps

³MCC = Maximum Continuous Current

⁴RPM = Revolutions per Minute

⁵FLA = Full Load Amps

⁶HP = Horsepower

All 380v. units have a step down transformer for the 230v. motors.

Summary Ratings - 50 Hz Units

ELECTRIC HEAT		000 = None		040 = 4 kw		050 = 5 kw		060 = 6 kw		080 = 8 kw		090 = 9 kw		100 = 10 kw		120 = 12 kw				150 = 15 kw			
BASIC MODEL	VOLTAGE PHASE	CKT #1		CKT #1		CKT #1		CKT #1		CKT #1		CKT #1		CKT #1		CKT #1		CKT #2		CKT #1		CKT #2	
		MCA	MFS	MCA	MFS	MCA	MFS	MCA	MFS	MCA	MFS	MCA	MFS	MCA	MFS	MCA	MFS	MCA	MFS	MCA	MFS	MCA	MFS
AVPC24ACF	220-50-1	13.8	20	20.6	25	25.4	30	30.1	35	39.6	40			49.1	50								
AVPC30ACF	220-50-1	18.7	30	21.6	30	26.4	30	31.1	35	40.6	45			50.1	60	21.6	30	38.1	40	26.4	30	47.6	50
AVPC36ACF	220-50-1	19.6	30	21.6	30	26.4	30	31.1	35	40.6	45			50.1	60	21.6	30	38.1	40	26.4	30	47.6	50
AVPC42ACF	220-50-1	25.2	40			27.0	40							50.7	60	25.2	40	38.1	40	27.0	40	47.6	50
AVPC48ACF	220-50-1	27.5	40			27.5	40							50.7	60	27.5	40	38.1	40	27.5	40	47.6	50
AVPC60ACF	220-50-1	40.0	60			40.0	60							52.8	60	40.0	60	38.1	40	40.0	60	47.6	50
AVPC24ACG	220-50-3	11.8	15					18.1	20			26.3	30			34.5	35						
AVPC30ACG	220-50-3	15.6	20					19.1	20			27.3	30			35.5	40			43.8	45		
AVPC36ACG	220-50-3	17.1	25					19.1	30			27.3	30			35.5	40			43.8	45		
AVPC42ACG	220-50-3	21.4	30					21.4	30			27.9	30			36.1	40			44.4	45		
AVPC48ACG	220-50-3	24.3	35					24.3	35			27.9	35			36.1	40			44.4	45		
AVPC60ACG	220-50-3	29.6	45					29.6	45			30.0	45			38.2	45			46.5	50		
AVPC72ACG	220-50-3	31.3	45					31.3	45			36.1	45			38.2	45			46.5	50		
AVPC24ACE	380-50-3	5.9	15					7.9	15			11.5	15			15.0	20			18.6	20		
AVPC30ACE	380-50-3	7.8	15					8.4	15			12.0	15			15.5	20			19.1	20		
AVPC36ACE	380-50-3	9.3	15					9.3	15			12.0	15			15.5	20			19.1	20		
AVPC42ACE	380-50-3	10.2	15					10.2	15			12.3	15			15.8	20			19.4	20		
AVPC48ACE	380-50-3	11.7	15					11.7	15			12.3	15			15.8	20			19.4	20		
AVPC60ACE	380-50-3	15.3	20					15.3	20			13.6	20			16.9	20			20.5	25		
AVPC72ACE	380-50-3	15.3	20					15.3	20			17.3	20			17.3	20			20.5	25		

The above chart should be used as a general guideline for estimating conductor size and overcurrent protection for the unit models listed. For specific requirements, refer to the data label attached to the unit cabinet.

MCA = Minimum Circuit Ampacity (Wiring Size Amps) MFS = Maximum External Fuse or External HACR Circuit Breaker Size.

Summary Ratings with Electric Reheat - 50 Hz Units

ELECTRIC HEAT		000 = None		040 = 4 kw		050 = 5 kw				060 = 6 kw		090 = 9 kw		100 = 10 kw				120 = 12 kw 8 kw Reheat (ACA)				150 = 15 kw 10 kw Reheat (ACA)			
BASIC MODEL	VOLTAGE PHASE	CKT #1		CKT #1		CKT #1		CKT #2		CKT #1		CKT #1		CKT #1		CKT #2		CKT #1		CKT #2		CKT #1		CKT #2	
		MCA	MFS	MCA	MFS	MCA	MFS	MCA	MFS	MCA	MFS	MCA	MFS	MCA	MFS	MCA	MFS	MCA	MFS	MCA	MFS	MCA	MFS	MCA	MFS
AVPC24ACF	220-50-1	13.8	20	32.9	35	37.6	40			42.4	45			13.8	20	47.6	50								
AVPC30ACF	220-50-1	18.7	30	37.8	40	42.6	45			47.3	50			18.7	30	47.6	50	20.6	30	38.1	40	26.4	30	47.6	50
AVPC36ACF	220-50-1	19.6	30	38.7	40	43.4	45			48.2	60			19.6	30	47.6	50	21.6	30	38.1	40	26.4	40	47.6	50
AVPC42ACF	220-50-1	25.2	40			25.2	40	23.9	25					25.2	40	47.6	50	25.2	40	38.1	40	25.2	40	47.6	50
AVPC48ACF	220-50-1	27.5	40			27.5	40	23.9	25					27.5	40	47.6	50	27.5	40	38.1	40	27.5	40	47.6	50
AVPC60ACF	220-50-1	40.0	60			40.0	60	23.9	25					40.0	60	47.6	50	40.0	60	38.1	40	40.0	60	47.6	50
AVPC24ACG	220-50-3	11.8	15							28.4	30	36.5	40					44.8	45			11.8	15	41.3	45
AVPC30ACG	220-50-3	15.6	20							32.2	35	40.3	45					48.6	50			15.6	20	41.3	45
AVPC36ACG	220-50-3	17.1	25							33.7	35	41.8	45					50.1	60			17.1	25	41.3	45
AVPC42ACG	220-50-3	21.4	30							38.0	40	46.2	50					21.4	30	33.0	35	21.4	30	41.3	45
AVPC48ACG	220-50-3	24.3	35							40.9	45	49.0	50					24.3	35	33.0	35	24.3	35	41.3	45
AVPC60ACG	220-50-3	29.6	45							46.3	50	54.4	60					29.6	45	33.0	35	29.6	45	41.3	45
AVPC72ACG	220-50-3	31.3	45							48.0	50	56.1	60					31.3	45	33.0	35	31.3	45	41.3	45
AVPC24ACE	380-50-3	5.9	15							13.0	15	16.6	20					20.1	25			23.8	25		
AVPC30ACE	380-50-3	7.8	15							14.9	15	18.5	20					22.0	25			25.7	30		
AVPC36ACE	380-50-3	9.3	15							15.7	20	19.3	20					22.8	25			26.4	30		
AVPC42ACE	380-50-3	10.2	15							17.3	20	21.0	25					24.5	25			28.1	30		
AVPC48ACE	380-50-3	11.7	15							18.8	20	22.5	25					26.0	30			29.6	30		
AVPC60ACE	380-50-3	15.3	20							22.4	25	26.0	30					29.5	30			33.1	35		
AVPC72ACE	380-50-3	15.3	20							22.4	25	26.1	30					29.6	30			33.2	35		

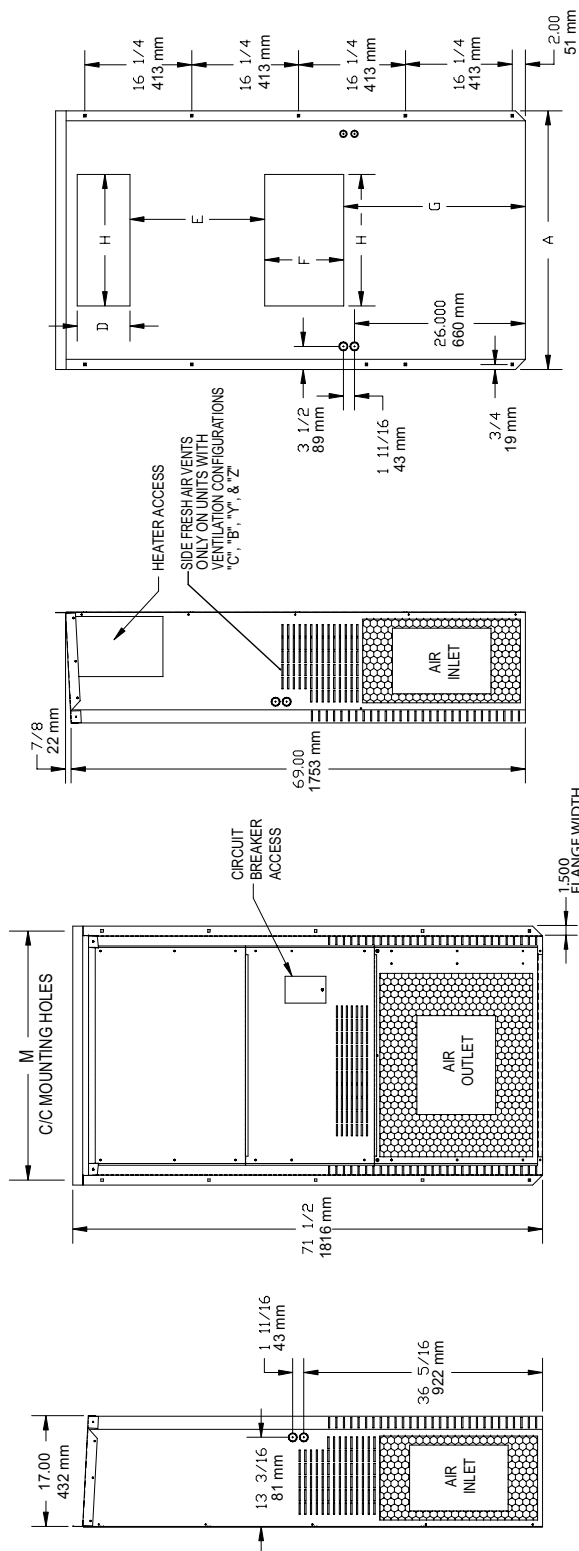
MCA = Maximum Continuous Current (Wiring Size Amps) MFS = Maximum Fuse Size or HACR Circuit Breaker MCA & MFS calculated at 240V. for "F" & "G" models. For 380v. units ("E" models), MCA & MFS calculated at 380v. All 380v. units have a step down transformer for 230v. motors.

Unit Load Amps - 50 Hz Units

BASIC MODEL NUMBER	VOLTAGE PHASE HERTZ	CURRENT AMPS		LOAD OF RESISTIVE HEATING ELEMENTS ONLY (AMPS)										TOTAL MAXIMUM HEATING AMPS (STANDARD UNIT)									
				2.2 kW	04 kW	05 kW	06 kW	08 kW	09 kW	10 kW	12 kW	15 kW	2.2 kW	04 Kw	05 Kw	06 Kw	08 Kw	09 Kw	10 Kw	12 Kw	15 Kw		
		AC	IBM	2.2 kW	04 kW	05 kW	06 kW	08 kW	09 kW	10 kW	12 kW	15 kW	2.2 kW	04 Kw	05 Kw	06 Kw	08 Kw	09 Kw	10 Kw	12 Kw	15 Kw		
AVPC24ACF	220-50-1	13.2	1.5	n/a	16.7	20.8	25.0	33.3	n/a	41.7	n/a	n/a	n/a	n/a	18.2	22.3	26.5	34.8	n/a	43.2	n/a	n/a	
AVPC30ACF	220-50-1	17.7	2.5	n/a	16.7	20.8	25.0	33.3	n/a	41.7	50.0	62.5	n/a	n/a	19.2	23.3	27.5	35.8	n/a	44.2	52.5	65.0	
AVPC36ACF	220-50-1	20.3	2.5	n/a	16.7	20.8	25.0	33.3	n/a	41.7	50.0	62.5	n/a	n/a	19.2	23.3	27.5	35.8	n/a	44.2	52.5	65.0	
AVPC42ACF	220-50-1	23.8	3.1	n/a	n/a	20.8	n/a	n/a	n/a	41.7	50.0	62.5	n/a	n/a	23.9	n/a	n/a	n/a	n/a	44.8	53.1	65.6	
AVPC48ACF	220-50-1	25.1	3.1	n/a	n/a	20.8	n/a	n/a	n/a	41.7	50.0	62.5	n/a	n/a	23.9	n/a	n/a	n/a	n/a	44.8	53.1	65.6	
AVPC60ACF	220-50-1	36.8	5.2	n/a	n/a	20.8	n/a	n/a	n/a	41.7	50.0	62.5	n/a	n/a	26.0	n/a	n/a	n/a	n/a	46.9	55.2	67.7	
AVPC24ACG	220-50-3	36.8	5.2	n/a	n/a	20.8	n/a	n/a	n/a	41.7	50.0	62.5	n/a	n/a	26.0	n/a	n/a	n/a	n/a	46.9	55.2	67.7	
AVPC30ACG	220-50-3	10.0	1.5	n/a	n/a	n/a	14.4	n/a	21.7	n/a	28.9	36.1	n/a	n/a	n/a	15.9	n/a	23.2	n/a	30.4	37.6		
AVPC36ACG	220-50-3	13.3	2.5	n/a	n/a	n/a	14.4	n/a	21.7	n/a	28.9	36.1	n/a	n/a	n/a	16.9	n/a	24.2	n/a	31.4	38.6		
AVPC42ACG	220-50-3	14.5	2.5	n/a	n/a	n/a	14.4	n/a	21.7	n/a	28.9	36.1	n/a	n/a	n/a	16.9	n/a	24.2	n/a	31.4	38.6		
AVPC48ACG	220-50-3	18.3	3.1	n/a	n/a	n/a	14.4	n/a	21.7	n/a	28.9	36.1	n/a	n/a	n/a	17.5	n/a	24.8	n/a	32.0	39.2		
AVPC60ACG	220-50-3	20.6	3.1	n/a	n/a	n/a	14.4	n/a	21.7	n/a	28.9	36.1	n/a	n/a	n/a	17.5	n/a	24.8	n/a	32.0	39.2		
AVPC72ACG	220-50-3	25.3	5.2	n/a	n/a	n/a	14.4	n/a	21.7	n/a	28.9	36.1	n/a	n/a	n/a	19.6	n/a	26.9	n/a	34.1	41.3		
AVPC24ACE	380-50-3*	26.6	5.2	n/a	n/a	n/a	14.4	n/a	21.7	n/a	28.9	36.1	n/a	n/a	n/a	19.6	n/a	26.9	n/a	34.1	41.3		
AVPC30ACE	380-50-3*	5.0	0.8	n/a	n/a	n/a	7.2	n/a	10.8	n/a	14.4	18.0	n/a	n/a	n/a	8.0	n/a	11.6	n/a	15.2	18.8		
AVPC36ACE	380-50-3*	6.7	1.3	n/a	n/a	n/a	7.2	n/a	10.8	n/a	14.4	18.0	n/a	n/a	n/a	8.5	n/a	12.1	n/a	15.7	19.3		
AVPC42ACE	380-50-3*	7.3	1.3	n/a	n/a	n/a	7.2	n/a	10.8	n/a	14.4	18.0	n/a	n/a	n/a	8.5	n/a	12.1	n/a	15.7	19.3		
AVPC48ACE	380-50-3*	8.8	1.6	n/a	n/a	n/a	7.2	n/a	10.8	n/a	14.4	18.0	n/a	n/a	n/a	8.8	n/a	12.4	n/a	16.0	19.6		
AVPC60ACE	380-50-3*	10.0	1.6	n/a	n/a	n/a	7.2	n/a	10.8	n/a	14.4	18.0	n/a	n/a	n/a	8.8	n/a	12.4	n/a	16.0	19.6		
AVPC72ACE	380-50-3*	13.0	2.6	n/a	n/a	n/a	7.2	n/a	10.8	n/a	14.4	18.0	n/a	n/a	n/a	9.8	n/a	13.4	n/a	17.0	20.6		
Heating kW shown at 240v. for "F" & "G" models. Derate heat output by 25% for operation on 208v. Total heating amps for all ACF units with 15 kW includes both circuits (#1 & #2). Heater kW shown at 380v. for all "E" models. Three phase units contain single phase motor loads. Values shown are maximum phase loads. Loads are not equally balanced on each phase. Total cooling and heating amps include motor loads. *4 wire plus ground																							

Dimensional Data - AVPC24-36 ComPac® I & ComPac® II Air Conditioners

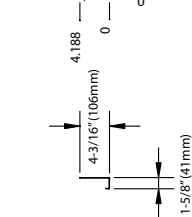
DIMENSIONS - AVPC 24-36



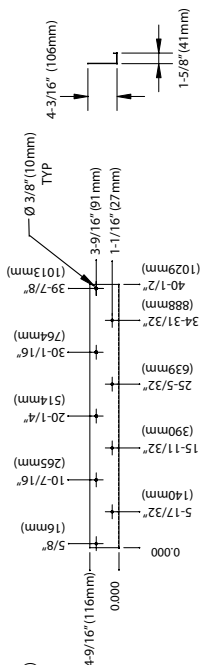
MODEL	A	D	E	F	G	H	M
AVPC24	IN	39-3/8	8	20-1/2	12	27-3/4	20
	MM	1000	203	521	305	705	508
AVPC30-36	IN	44-9/16	8	18	14	28-1/2	28
	MM	1132	203	457	356	724	711
							1094

*H DIM IS CENTERED BETWEEN A DIM

AVPA24 BOTTOM MOUNTING BRACKET



AVPA30/36 BOTTOM MOUNTING BRACKET



SHIP WEIGHT

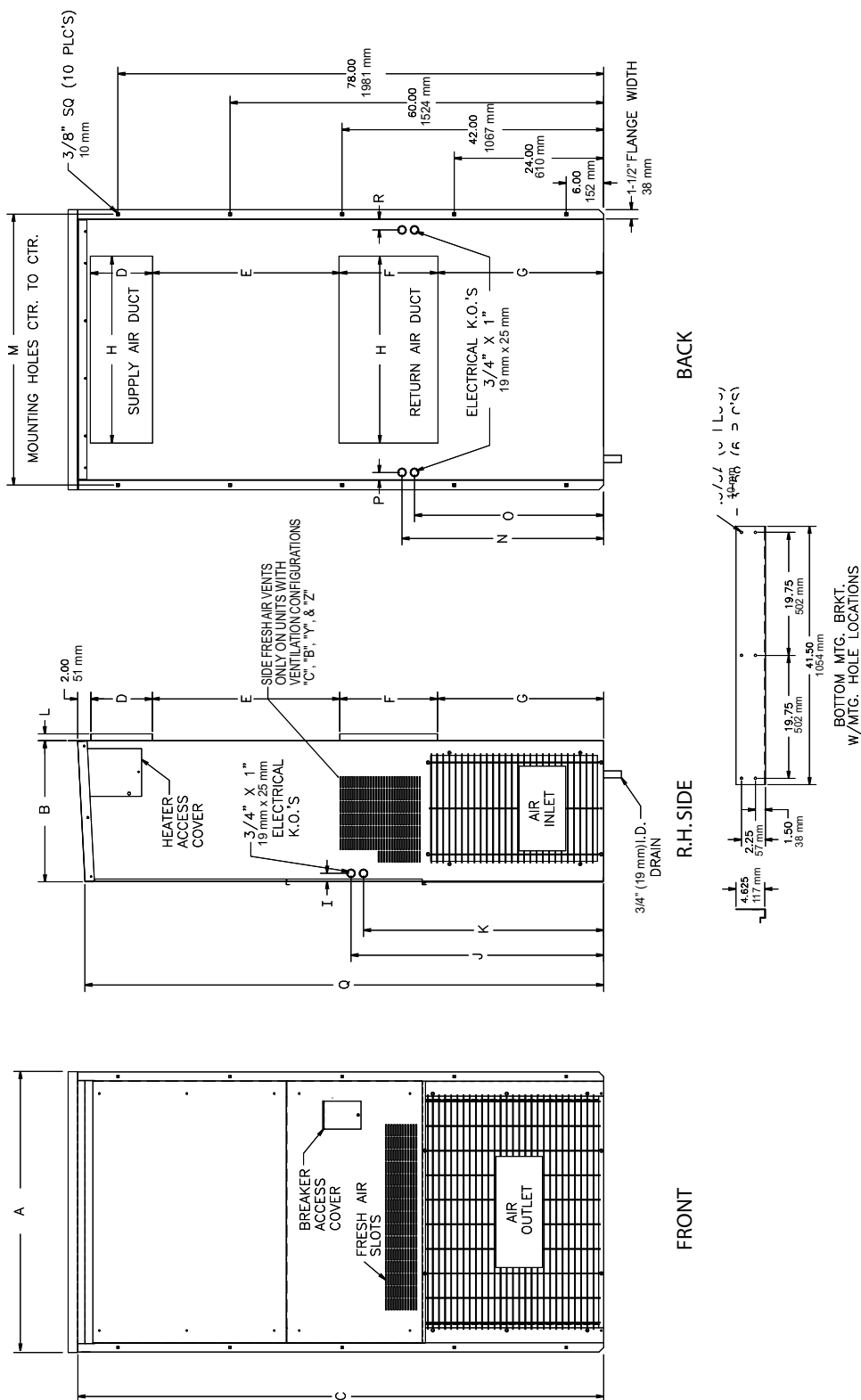
BASIC MODEL	AVPC24 LBS/KG	AVPC30 LBS/KG	AVPC36 LBS/KG
COMPAC® I	274/125	355/160	355/160
COMPAC® II	286/130	365/170	365/170

FILTER SIZE

BASIC MODEL	AVPC24	AVPC30/36
FILTER SIZE (IN)	16 x 25 x 2	16 x 30 x 2
FILTER SIZE (MM)	406 x 635 x 51	406 x 762 x 51

Dimensional Data - AVPC42-60 ComPac® I & ComPac® II Air Conditioners

DIMENSIONS - AVPC 42-60



MODEL	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
	IN																	
AVPC42-60	45-1/8	22-5/8	86.00	10.00	30.00	16.00	26-1/2	30.00	1-5/16	40-9/16	38-9/16	1-1/8	43-1/2	32-3/8	30-3/8	1-1/4	83-5/16	1-3/4
	1146	575	2184	254	762	406	673	762	33	1030	979	29	1105	822	772	32	2118	44

SHIP WEIGHT

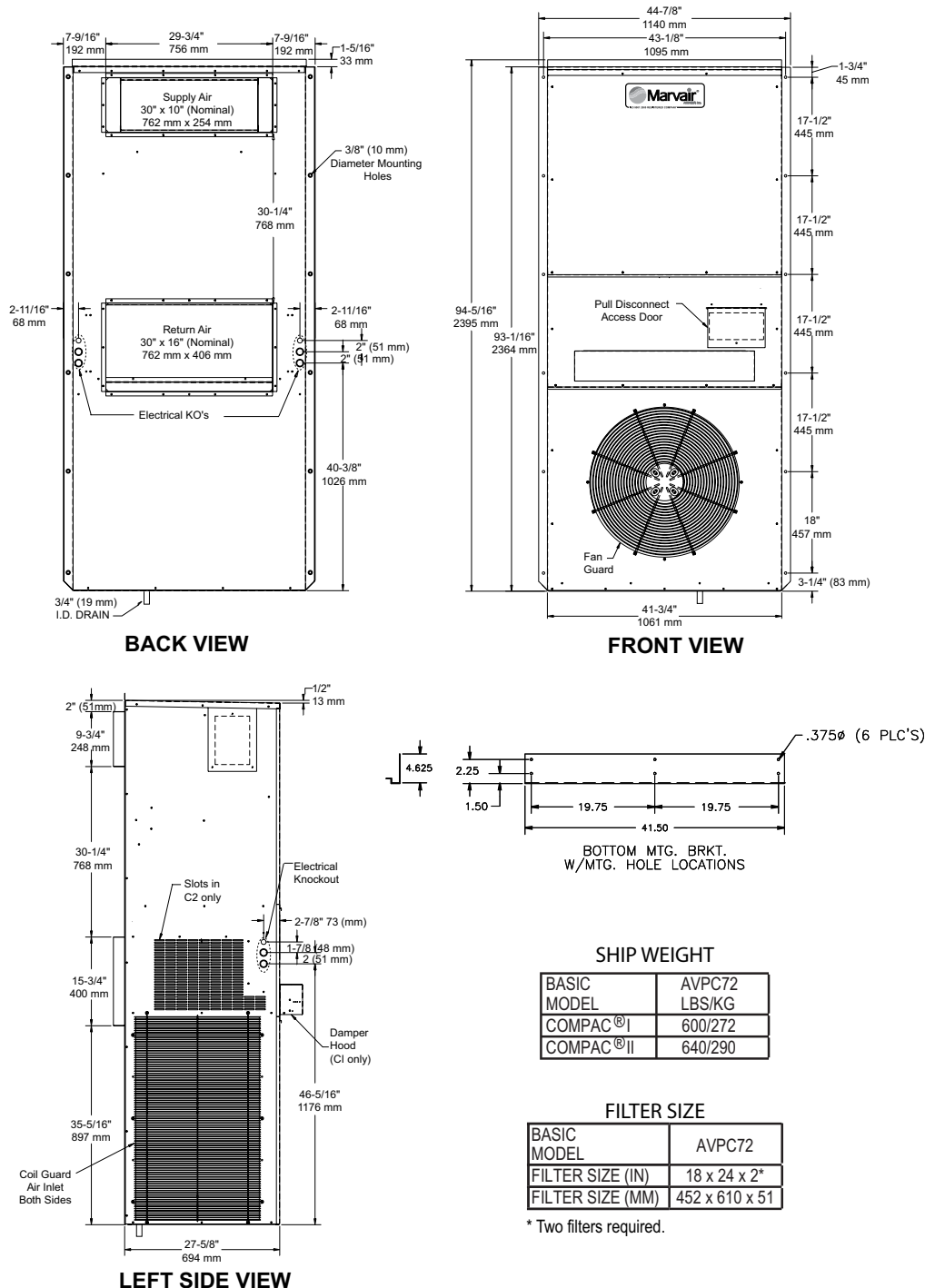
BASIC MODEL	AVPC42	AVPC48	AVPC60
LBS/KG	495/225	521/240	535/245
COMPAC® I	527/240	552/250	565/260
COMPAC® II			

FILTER SIZE

BASIC MODEL	AVPC42/48/60
FILTER SIZE (IN)	22 x 36-1/2 x 2
FILTER SIZE (MM)	559 x 927 x 51



Dimensional Data - AVPC72 ComPac® I & ComPac® II Air Conditioners



Please consult the Marvair® website at www.marvair.com for the latest product literature. Complete installation instructions are in the ComPac® Air Conditioners I&O Manual. Detailed dimensional data is available upon request. A complete warranty statement can be found in each product's Installation/Operation Manual, on our website or by contacting Marvair at 229-273-3636. As part of the Marvair continuous improvement program, specifications are subject to change without notice.



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