

Job Name:

System Reference:

Date:

**Indoor Unit:  
PVA-A30AA7****Outdoor Unit:  
PUZ-HA30NHA5****INDOOR UNIT FEATURES**

- Ducted air handler provides a solution to cool and heat large zones
- Highly efficient totally enclosed ECM motor
- Selectable external static pressure: 0.30, 0.50 and 0.80 in.WG with 3 fan speeds at each static setting
- 1 inch R4.2 fiberglass free insulation reduces condensation and boosts efficiency
- Positive pressure cabinet with air leakage of less than 1.0% at 1.0 in. w.g.
- Unique blow through design allows simple coil cleaning when the blower is removed
- Multi-position installation: horizontal (left or right), vertical (up or down). For downflow configurations, the CMA-1 is recommended for proper management of condensate to prevent water blow-off in certain conditions
- Optional electric heat kit for additional heat capacity
- Optional humidifier control and ERV control

**OUTDOOR UNIT FEATURES**

- Variable speed INVERTER-driven compressor
- High heating capacity: flash injection circuit maintains 100% heating capacity at 5°F outdoor temperature
- Wide heating range: heating performance down to -13°F (average of 80% heating capacity)
- High speed heating at start up: Hyper-Heating INVERTER<sup>®</sup> reduces the time for heating at start up by about half compared to standard models
- Suction accumulator pre-charged with refrigerant volume for piping length up to 100 ft.
- Twinning of two indoor units possible with the 36 kBtu/h model
- High pressure/temperature protection

## SPECIFICATIONS: PVA-A30AA7 & PUZ-HA30NHA5

Model Number	Indoor Unit		PVA-A30AA7
	Outdoor Unit		PUZ-HA30NHA5
Cooling*1	Maximum Capacity	Btu/h	30,000
	Rated Capacity	Btu/h	28,500
	Minimum Capacity	Btu/h	18,000
	Maximum Power Input	W	2,500
	Rated Power Input	W	2,280
	Moisture Removal	Pints/h	7.0
	Sensible Heat Factor		0.70
	Power Factor	%	92.6
Heating at 47°F*2	Maximum Capacity	Btu/h	34,000
	Rated Capacity	Btu/h	32,000
	Minimum Capacity	Btu/h	18,000
	Maximum Power Input	W	3,240
	Rated Power Input	W	2,590
	Power Factor	%	93.8
Heating at 17°F *3	Maximum Capacity	Btu/h	32,000
	Rated Capacity	Btu/h	22,600
	Maximum Power Input	W	4,930
	Rated Power Input	W	2,740
Heating at 5°F *4	Maximum Capacity	Btu/h	32,000
	Maximum Power Input	W	5,320
Efficiency	SEER		17.0
	EER *1		12.5
	HSPF (IV)		9.7
	COP at 47°F *2		3.62
	COP at 17°F in Maximum Capacity		1.90
	COP at 5°F in Maximum Capacity		1.76
	ENERGY STAR® Certified (ENERGY STAR products are third-party certified by an EPA-recognized Certification Body)		Yes
Electrical	Voltage, Phase, Frequency		208 / 230V, 1-phase, 60 Hz
	Guaranteed Voltage Range	V AC	198 – 253
	Voltage: Indoor - Outdoor, S1-S2	V AC	208V / 230

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Model Number	Indoor Unit		PVA-A30AA7
	Outdoor Unit		PUZ-HA30NHA5
	Voltage: Indoor - Outdoor, S2-S3	V DC	24
	Voltage: Indoor - Remote controller	V DC	12
	Recommended Fuse/Breaker Size	A	30
	Recommended Wire Size (Indoor - Outdoor)	AWG	14
Indoor Unit	MCA	A	4.13
	Fan Motor Full Load Amperage	A	3.30
	Fan Motor Output	W	244
	Airflow Rate, Dry	CFM	613-744-875
	Airflow Rate, Wet	CFM	n/a
	External Static Pressure	in.WG	0.30-0.50-0.80
	Sound Pressure Level	dB(A)	30-34-38
	Drain Pipe Size	In. (mm)	3/4 FPT (19.05)
	Condensate Lift Mechanism, Maximum Distance	Ft. (m)	n/a
	Heat Exchanger Type		Plate fin coil
	External Finish Color		Galvanized steel cabinet-Powder coated Slate Gray
	Unit Dimensions // Grille Dimensions	W: In. (mm)	21 (534)
		D: In. (mm)	21-5/8 (548)
H: In. (mm)		54-1/4 (1378)	
Unit Weight	Lbs. (kg)	141 (64)	
Indoor Unit Operating Temperature Range	Cooling Intake Air Temp (Maximum / Minimum)	°F	90 DB, 73 WB / 66 DB, 59 WB
	Heating Intake Air Temp (Maximum / Minimum)	°F	82 DB / 50 DB
Outdoor Unit	MCA	A	28
	MOCP	A	40
	Fan Motor Full Load Amperage	A	0.4+0.4
	Fan Motor Output	W	86+86
	Airflow Rate	CFM	3,530
	Refrigerant Control		Electronic Expansion Valve
	Defrost Method		Reverse Cycle
	Heat Exchanger Type		Cross fin

## SPECIFICATIONS: PVA-A30AA7 & PUZ-HA30NHA5

Model Number	Indoor Unit		PVA-A30AA7
	Outdoor Unit		PUZ-HA30NHA5
	Sound Pressure Level, Cooling*1	dB(A)	52
	Sound Pressure Level, Heating*2	dB(A)	53
	Compressor Type		INVERTER-Driven Twin Rotary
	Compressor Model		ANB33FJEMT
	Compressor Rated Load Amps	A	18
	Compressor Locked Rotor Amps	A	27.5
	Compressor Oil Type // Charge	oz.	FV50S // 45
	External Finish Color		Ivory Munsell 3Y 7.8/1.1
	Base Pan Heater		n/a
	Unit Dimensions	W: In. (mm)	37-3/8 (950)
		D: In. (mm)	13 + 1-3/16 (330 + 30)
		H: In. (mm)	53-1/8 (1,350)
	Package Dimensions	W: In. (mm)	40-15/16 (1,040)
		D: In. (mm)	17-11/16 (450)
H: In. (mm)		56-11/16 (1,440)	
Unit Weight	Lbs. (kg)	265 (120)	
Package Weight	Lbs. (kg)	289 (131)	
Outdoor Unit Operating Temperature Range	Cooling Intake Air Temp (Maximum / Minimum)	°F	115 DB / 0* DB
	Heating Intake Air Temp (Maximum / Minimum)	°F	70 DB, 59 WB / -13 DB, -13 WB
	Thermal Lock-out / Re-start Temperatures**	°F	n/a
Refrigerant	Type		R410A
	Charge	Lbs, oz	12
Piping	Gas Pipe Size O.D. (Flared)	In.(mm)	5/8 (15.88)
	Liquid Pipe Size O.D. (Flared)	In.(mm)	3/8 (9.52)
	Maximum Piping Length	Ft. (m)	245 (75)
	Maximum Height Difference	Ft. (m)	100 (30)
	Maximum Number of Bends		15

## SPECIFICATIONS: PVA-A30AA7 & PUZ-HA30NHA5

AHRI Rated Conditions (Rated data is determined at a fixed compressor speed)	*1 Cooling (Indoor // Outdoor)	°F	80°F DB, 67°F WB // 95°F DB, 75°F WB
	*2 Heating at 47°F (Indoor // Outdoor)	°F	70°F DB, 60°F WB // 47°F DB, 43°F WB
	*3 Heating at 17°F (Indoor // Outdoor)	°F	70°F DB, 60°F WB // 17°F DB, 15°F WB
Conditions	*4 Heating at 5°F (Indoor // Outdoor)	°F	70°F DB, 60°F WB // -4°F DB, -5°F WB
<b>Notes</b> *Wind baffles required to operate below 23°F DB in cooling mode. PUZ with wind baffle: 0°F - 115°F. **System cuts out in heating mode to avoid thermistor error and automatically restarts at these temperatures			

Notes:

## ACCESSORIES: PVA-A30AA7

Electric Heat Kit	<input type="checkbox"/> EH03-MPA-M
Electric Heat Kit	<input type="checkbox"/> EH05-MPA-M
Electric Heat Kit	<input type="checkbox"/> EH08-MPA-M
Electric Heat Kit	<input type="checkbox"/> EH10-MPA-M
Separate Power Terminal Block Kit	<input type="checkbox"/> SPTB1
3-Pole Disconnect Switch (30A/600V/UL) [fits 2" X 4" utility box]	<input type="checkbox"/> TAZ-MS303
Drain Pan Level Sensor (Control for indoor unit shut off to prevent drain pan overflow)	<input type="checkbox"/> DPLS2
MaxiBlue Advanced Blue Diamond Mini-Condensation pump w/ Reservoir & Sensor (110V) up to 48,000 Btu/h [recommended]	<input type="checkbox"/> X87-711 - 110
MaxiBlue Advanced Blue Diamond Mini-Condensation pump w/ Reservoir & Sensor (208/230V) up to 48,000 Btu/h [recommended]	<input type="checkbox"/> X87-721 - 208/230
Extension Cord for Blue Diamond Pump	<input type="checkbox"/> C13-103
MegaBlue Blue Diamond Condensate Pump (110-230V) up to 170,000 Btu/h	<input type="checkbox"/> X87-835
Remote Sensor (Extensible)	<input type="checkbox"/> PAC-SE41TS-E
Connector Cable for Remote Display	<input type="checkbox"/> PAC-725AD-E(10pcs)
Connector for CN32 (Remote ON/OFF)	<input type="checkbox"/> PAC-SE55RA-E
Connector for CN24 (Back up Heating)	<input type="checkbox"/> PAC-SE56RA-E
Connector for CN30 (LLC)	<input type="checkbox"/> PAC-SE57RA-E
Remote Operation Adapter (with wire terminals for remote ON/OFF and operation status/error)	<input type="checkbox"/> PAC-SF40RM-E* <sup>1</sup>
External Fan / Heater Control Relay Adapter	<input type="checkbox"/> CN24RELAY-KIT-CM3
Backlit, Wall-mounted, Wireless	<input type="checkbox"/> MHK1
Wireless Adapter	<input type="checkbox"/> PAC-USWHS002-WF-1
BACnet® and Modbus Interface	<input type="checkbox"/> PAC-UKPRC001-CN-1
Wall-mounted, Wired	<input type="checkbox"/> PAC-YT53CRAU-J
Wired Remote Controller	<input type="checkbox"/> PAR-33MAA-J
T-STAT Interface	<input type="checkbox"/> PAC-US444CN-1* <sup>2</sup>
Signal Receiver	<input type="checkbox"/> PAR-SA9CA-E
Wireless Remote Controller	<input type="checkbox"/> PAR-FL32MA-E
Wireless Signal Receiver	<input type="checkbox"/> PAR-FA32MA-E
Wire for Remote ON/OFF with CN32 connector	<input type="checkbox"/> PAC-715AD
Lockdown Bracket for Wireless, Hand-held, Remote Controllers	<input type="checkbox"/> RCMKP1CB

\*<sup>1</sup> Unable to use with wireless remote controller

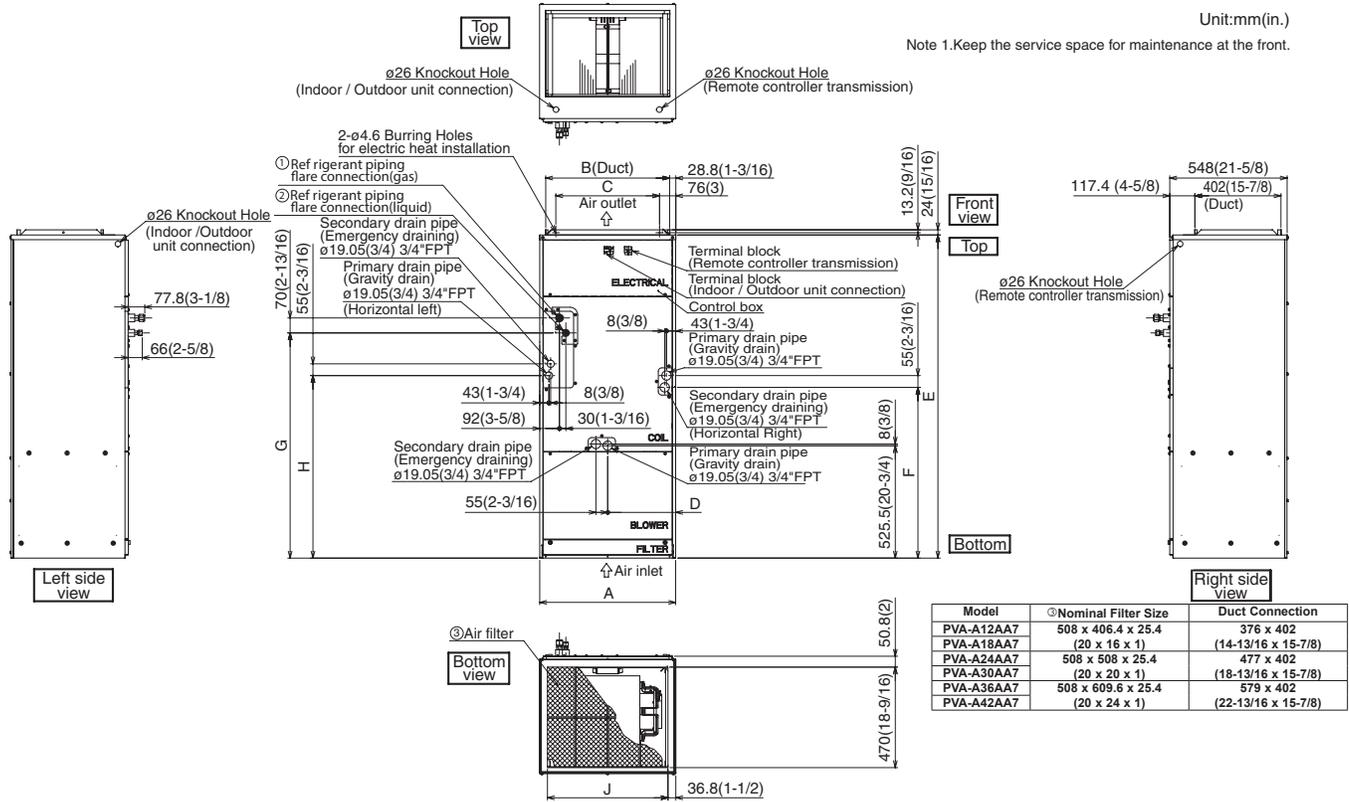
\*<sup>2</sup> Unable to use with the electric heat time delay

## ACCESSORIES: PUZ-HA30NHA5

Air Outlet Guide	<input type="checkbox"/> PAC-SG59SG-E (two pieces are required)
Front Wind Baffle	<input type="checkbox"/> WB-PA5 (two pieces are required)
Hail Guard	<input type="checkbox"/> HG-A3
Drain Socket	<input type="checkbox"/> PAC-SG61DS-E
Centralized Drain Pan	<input type="checkbox"/> PAC-SG64DP-E
Control/Service Tool	<input type="checkbox"/> PAC-SK52ST
Wall Mounting Bracket (Powder-coated Steel)	<input type="checkbox"/> QCWB2000M-1
Wall Mounting Bracket (316 Series Stainless Steel)	<input type="checkbox"/> QSWBSS
M-NET Control Adapter for Building Management System	<input type="checkbox"/> PAC-SF83MA-E
M-NET Control Adapter for Building Management System	<input type="checkbox"/> PAC-SJ19MA-E
Outdoor Unit Mounting Pad 24" x 42" x 3"	<input type="checkbox"/> ULTRILITE2
Outdoor Unit 3-1/4 inch Mounting Base - Pair (Plastic)	<input type="checkbox"/> DSD-400N
MiniSplit Mounting Stand-Dual Fan Models - 12"	<input type="checkbox"/> QSMS1202M
MiniSplit Mounting Stand-Dual Fan Models - 18"	<input type="checkbox"/> QSMS1802M
MiniSplit Mounting Stand-Dual Fan Models - 24"	<input type="checkbox"/> QSMS2402M
3/8 x 5/8 x 10' / 1/2" Lineset (Twin-Tube Insulation)	<input type="checkbox"/> MPLS385812T-10
3/8 x 5/8 x 15' / 1/2" Lineset (Twin-Tube Insulation)	<input type="checkbox"/> MPLS385812T-15
3/8 x 5/8 x 30' / 1/2" Lineset (Twin-Tube Insulation)	<input type="checkbox"/> MPLS385812T-30
3/8 x 5/8 x 50' / 1/2" Lineset (Twin-Tube Insulation)	<input type="checkbox"/> MPLS385812T-50
3/8 x 5/8 x 65' / 1/2" Lineset (Twin-Tube Insulation)	<input type="checkbox"/> MPLS385812T-65
3/8 x 5/8 x 100' / 1/2" Lineset (Twin-Tube Insulation)	<input type="checkbox"/> MPLS385812T-100

# DIMENSIONS: PVA-A30AA7 & PUZ-HA30NHA5

## PVA-A30AA7



Model	⊙Nominal Filter Size	Duct Connection
PVA-A12AA7	508 x 406.4 x 25.4 (20 x 16 x 1)	376 x 402 (14-13/16 x 15-7/8)
PVA-A18AA7	508 x 508 x 25.4 (20 x 20 x 1)	477 x 402 (18-13/16 x 15-7/8)
PVA-A24AA7	508 x 609.6 x 25.4 (20 x 24 x 1)	579 x 402 (22-13/16 x 15-7/8)
PVA-A30AA7	508 x 609.6 x 25.4 (20 x 24 x 1)	579 x 402 (22-13/16 x 15-7/8)
PVA-A36AA7	508 x 609.6 x 25.4 (20 x 24 x 1)	579 x 402 (22-13/16 x 15-7/8)
PVA-A42AA7	508 x 609.6 x 25.4 (20 x 24 x 1)	579 x 402 (22-13/16 x 15-7/8)

Model	Unit: mm (In.)										Unit: mm (In.)	
	A	B	C	D	E	F	G	H	J	⊙Gas Pipe	⊙Liquid Pipe	
PVA-A12AA7	432 (17)	376 (14-13/16)	281 (11-1/8)	224 (8-7/8)	1275 (50-1/4)	680 (26-13/16)	823 (32-7/16)	735.5 (29)	360 (14-3/16)	⊕ 12.7 (1/2)	⊕ 6.35 (1/4)	
PVA-A18AA7	534 (21)	477 (18-13/16)	382.6 (15-1/8)	266.5 (10-1/2)	1378 (54-1/4)	737 (29-1/16)	953.5 (37-9/16)	792 (31-3/16)	461 (18-3/16)	⊕ 15.88 (5/8)	⊕ 9.52 (3/8)	
PVA-A24AA7	635 (25)	579 (22-13/16)	484.6 (19-1/8)	317.5 (12-1/2)	1511 (59-1/2)	798.5 (31-7/16)	1053 (41-1/2)	853.5 (33-5/8)	563 (22-3/16)			

