AIRTEMP INC.

MECHANICAL CONTRACTORS 20 THOMAS DRIVE WESTBROOK, MAINE 04092 207-774-2300 207-874-2383 FAX

A COMFORT SYSTEMS USA COMPANY
QUALITY PEOPLE – BUILDING SOLUTIONS

SUBMITTAL

JOB: PAYSON SMITH 3RD FLOOR RENOVATIONS

DATE: 9/21/17

LOCATION: 96 FALMOUTH STREET, PORTLAND MECHANICAL CONTRACTOR: AIRTEMP INC. ENGINEER: MECHANICAL SYSTEMS ENGINEERS

AIRTEMP JOB NUMBER: 925

AIRTEMP IS PLEASED TO SUBMIT THE FOLLOWING ITEM(S) FOR APPROVAL:

HEAT PUMPS

PLEASE RETURN .PDF OF REVIEWED SUBMITTAL TO US



Submittal Transmittal

					Submittal #	1-001	
To:	Aiı	rtemp			Date:	9-21-17	
From: Homans Associates				Transmitted By:	Kevin Faria		
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		Imington, MA			Copied To:	Nick St. Ours	
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Project		Payson Smith 3rd Floor Ren		Architect			
Order #		Chiversity of	Southern Manie	Engineer			
Purchas	\rightarrow			Liigineei			
1 urchas	oci						
Subm	iitt	al Name:	Equipment Lis	t			
Submitt	ed F	or:	Via:	The Fo	llowing:		
Approval/Action		☐ E-Mail ☐ Courier ☐ Fax	☐ Spe ☐ Dig ☑ Sul	awings ecifications ital Files omittals & M Manuals eer			

Includes the following:

Unit Tag #	Model	Description	Format	Item Action	QTY:
OU-1,2	PUMY-P36NKMU1	S-Series Outdoor Unit	PDF	For Approval	2
IU-1,2,3,5,7	PMFY-P06NBMU-ER5	1-Way Ceiling-recessed Cassette w/ Grille	PDF	For Approval	5
IU-4,6,8	PMFY-P08NBMU-ER5	1-Way Ceiling-recessed Cassette w/ Grille	PDF	For Approval	3
IU-9	PKA-A24KA7	Wall Mounted	PDF	For Approval	1
OU-3	PUY-A24NHA7	Single Zone Cooling Only			1
IU UNITS	PAC-YT53CRAU-J	Simple MA Remote Controller	PDF	For Approval	9
	EW-50A	Centralized Controller	PDF	For Approval	1
OU-3	PAC-SF83MA-E	M-NET Converter for P- Series	PDF	For Approval	1
	SW-BACnet	BACnet Software License	PDF	For Approval	1
IU-9	ASP-MW-UNI	Condensate Pump	PDF	For Approval	1

OU-1,2	WB-PA3	Wind Baffle (1 Piece) for ALL NEW PUMY "K" MODELS	PDF	For Approval	4
OU-3	WB-PA5	Front Wind Baffle (1 piece)	PDF	For Approval	1
OU-1,2	WB-RE5	Rear Wind Baffle (1 piece)	PDF	For Approval	1
OU-1,2	WB-SD5	Side Wind Baffle (1 piece)	PDF	For Approval	1
OU-3	QSMS1801	Quick-Sling Stand	PDF	For Approval	1
OU-1,2	QSMS1802	Quick-Sling Stand	PDF	For Approval	2
	Equipment Schedules	Outdoor Units	PDF	For Approval	1
	Equipment Schedules	Indoor Units	PDF	For Approval	1
	System Schematic	Riser Diagram	PDF	For Approval	1



Model: PUMY-P36NKMU1 (-BS)



Job Name: Payson Smith Hall 3rd Floor Renovations University of Southern Maine

System Reference: OU-1,2



OUTDOOR VRF SYSTEM

UNIT OPTION

✓ Standard Model......PUMY-P36NKMU1
Seacoast (BS) modelPUMY-P36NKMU1-BS

ACCESSORIES

Specification	ons	Model Name		
Unit Type			PUMY-P36NKMU1 (-BS)	
Nominal Cooling Capacity (208/230V) 1 Btu/h		36,000		
Nominal Heating Capacity (208/230V) 12			42,000	
	Cooling (Outd	oor)	5° to 115° F (-15 to +46° C) DB '3 '4	
Operating Temperature Range	Heating (Outd	loor)	-13° to +59° F (-25° to +15.0° C) WB	
External Dimensions (H x W x D)	In. / mm	•	52-11/16 x 41-11/32 x 13 (+1) / 1338 x 1050 x 330 (+25)	
Net Weight	Lbs. / kg		269 / 122	
External Finish			Galvanized steel sheets (+powder coating for -BS type)	
Electrical Power Requirements	Voltage, Phas	e, Hertz	208/230V, 1-Phase, 60Hz	
Minimum Circuit Ampacity (MCA)	A		31	
Maximum Overcurrent Protection (MOP)	Α		44	
Recommmended Fuse Size	Α		40	
	Liquid (High P	ressure)	3/8 / 9.52	
Piping Diameter (Flare) In. / mm	Gas (Low Pre	ssure)	5/8 / 15.88	
1-111-9	Total Capacity	,	50% to 130% of outdoor unit capacity	
Indoor Unit	Model / Quant	ity	P6 to 36 / 1 to 7	
Fan Type x Quantity	<u> </u>	-	Propeller fan x 2	
Fan Motor Output	kW		0.074 + 0.074 (two fan motors)	
Airflow Rate	CFM		3,885	
C	Cooling		29% to 100%	
Compressor Operating Range	Heating		24% to 100%	
Compressor Type x Quantity			INVERTER-driven Scroll Hermetic x 1	
Compressor Motor Output	kW		2.8	
Sound Pressure Level	Cooling	dB(A)	49	
Sound Pressure Level	Heating	dB(A)	53	
Refrigerant			R410A; 10 lbs. + 9 oz. (4.8 kg)	
Lubricant			FV50S (2.3 liters)	
	High Pressure	•	High pressure sensor, High pressure switch 601 psi (4.15 MPa)	
Protection Devices	Inverter Circui	t	Over-heat protection, Over-current protection	
	Compressor		Discharge thermo protection, Over-current protection	
	EER		12.6 / 14.2	
AHRI Ratings	SEER		15.6 / 21.0	
(Ducted/Non-Ducted)	COP		3.6 / 3.9	
	HSPF		10.5 / 11.5	

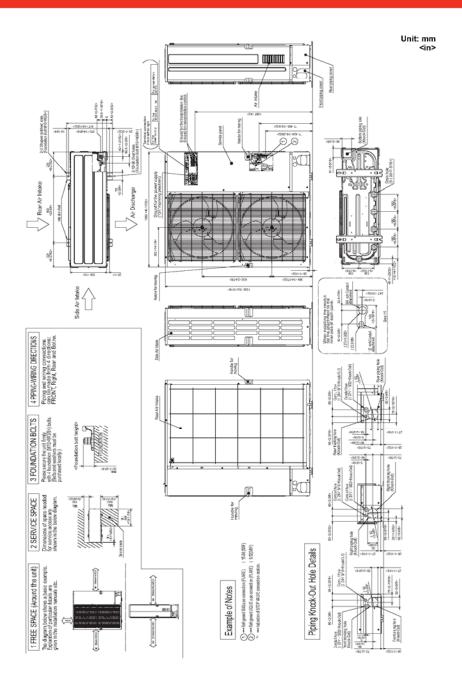
^{*1} Cooling | Indoor: 80 ° F (26.7 ° C) DB / 67 ° F (19 ° C) WB; Outdoor: 95 ° F (35 ° C) DB

¹2 Heating | Indoor: 70° F (21.1° C) DB, Outdoor 47° F (8.3° C) DB / 43° F (6° C) WB

^{*3} When using Wind Baffles [WB-PA3], the minimum operating range is 5° F. Without Wind Baffles, the minimum operating range is 23° F.

^{*4} When connecting PKFY-P06NBMU/P08NHMU,PFFY-P06/08/12NEMU or PFFY-P06/08/12NRMU indoor units, the minimum operating range is 50° F.

Model:PUMY-P36NKMU1 (-BS)- DIMENSIONS



NOTES

Blue Fin Anti-corrosion Protection:

Cellulose- and polyurethane-resin coating treatment applied to condenser coil that protects it from air contaminants. Standard: ≥1µm thick; Salt Spray Test Method - no unusual rust development to 960 hours.



1340 Satellite Boulevard. Suwanee, GA 30024 Toll Free: 800-433-4822 www.mehvac.com





FORM# PUMY-P36NKMU1 (-BS) -20160526

CITYMULTI®

Model: PMFY-P06NBMU-ER5



Job Name: Payson Smith Hall 3rd Floor Renovations University of Southern Maine

Schedule Reference: IU-1,2,3,5,7 Date: 9-21-17



GENERAL FEATURES

- · Dual set point functionality
- · Lightweight and compact design
- · Four-speed fan settings
- · Built-in condensate lift mechanism
- · Ventilation air intake supported

OPTIONS

□ CN24 Relay Kit......CN24RELAY-KIT-CM3

* Cooling / Heating capacity indicated at the maximum value at operation under the following conditions: Cooling | Indoor: 80° F (27° C) DB / 67° F (19° C) WB Cooling | Outdoor: 95° F (35° C) DB

Heating | Indoor: 70° F (21° C) DB

Heating | Outdoor: 47° F (8° C) DB / 43° F (6° C) WB

SPECIFICATIONS

Capacity*

Power

Power Consumption Heating 0.04 kW Current Heating 0.20 A Maximum Overcurrent Protection (MOCP)15 A

Dimensions

Net Weight

Type x Quantity Line flow fan x 1 Airflow Rate (Low-Mid1-Mid2-High) . . . 230-254-283-307 CFM

Air FilterPP honeycomb

Refrigerant Pipe Dimensions

Gas/2" / 12.7 mm flare

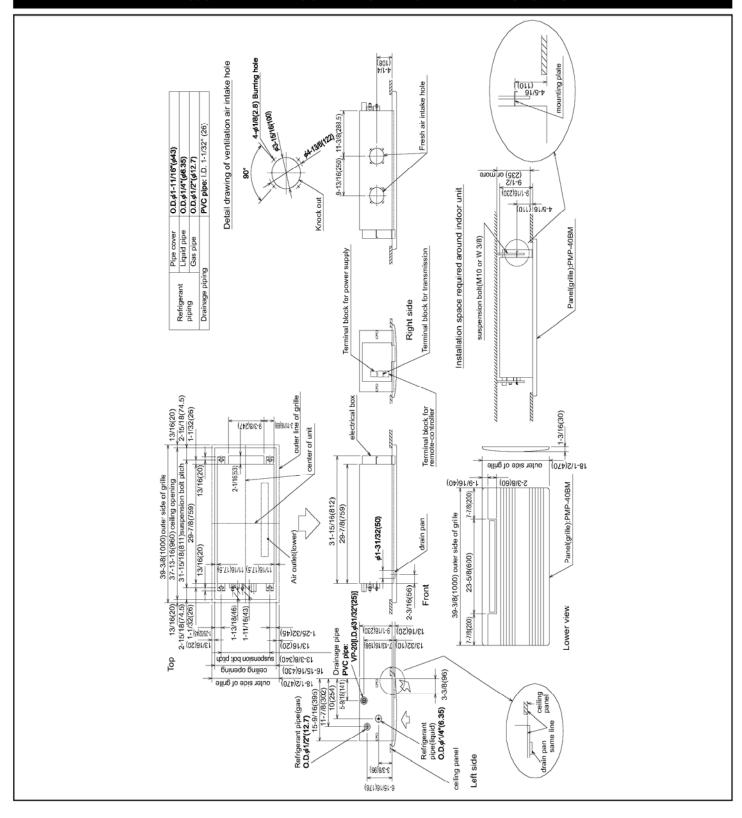
Drainpipe Dimension O.D. 1" / 26 mm

Sound Level (Low-Mid1-Mid2-High) 27 - 30 - 33 - 35 dB (A)

Notes:



Model: PMFY-P06NBMU-ER5 - DIMENSIONS







Live Better

Model: PMFY-P08NBMU-ER5



Job Name: Payson Smith Hall 3rd Floor Renovations University of Southern Maine

Schedule Reference: IU-4,6,8 Date: 9-21-17



GENERAL FEATURES

- · Dual set point functionality
- · Lightweight and compact design
- · Four-speed fan settings
- · Built-in condensate lift mechanism
- · Ventilation air intake supported

OPTIONS

□ CN24 Relay Kit......CN24RELAY-KIT-CM3

* Cooling / Heating capacity indicated at the maximum value at cooling / Heating capacity indicated at the maximum volume operation under the following conditions:

Cooling | Indoor: 80° F (27° C) DB / 67° F (19° C) WB

Cooling | Outdoor: 95° F (35° C) DB

Heating | Indoor: 70° F (21° C) DB

Heating | Outdoor: 47° F (8° C) DB / 43° F (6° C) WB

Notes:

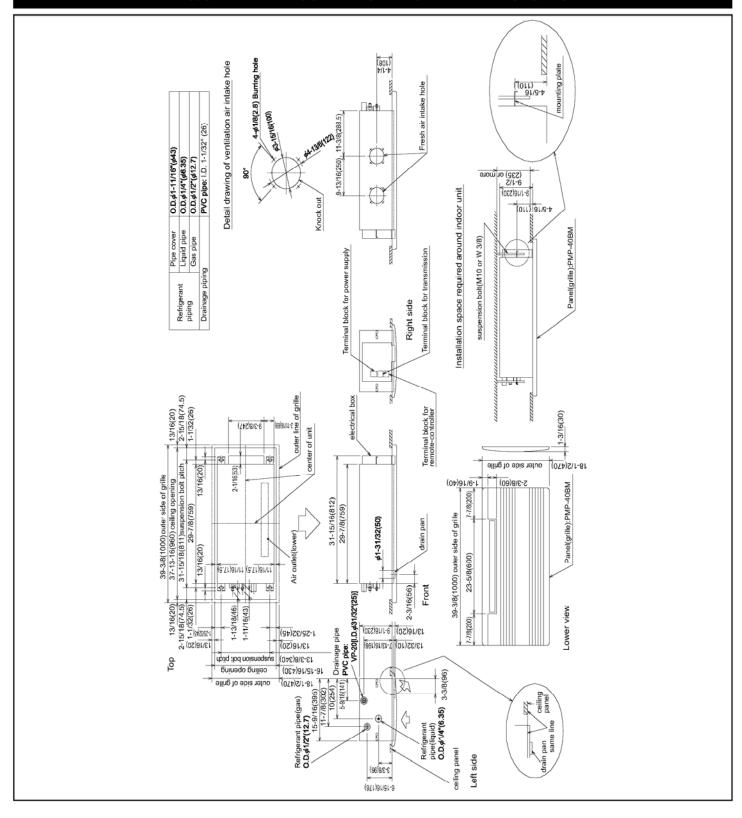
SPECIFICATIONS

Capacity* Cooling
Power Source
Power Consumption 0.04 kW Cooling 0.04 kW Heating 0.04 kW
Current 0.20 A Cooling 0.20 A Heating 0.20 A Minimum Circuit Ampacity (MCA) 0.25 A Maximum Overcurrent Protection (MOCP) .15 A
External Finish Grille: 6.4Y 8.9/0.4
Dimensions Inches .9-1/16 h x 31-31/32 w x 15-9/16 d mm .230 h x 812 w x 395 d
Grille Inches
Net Weight 31 lb / 14 kg Unit 31 lb / 3 kg Grille 7 lb / 3 kg
Coil Type
Fan Type x Quantity
Air FilterPP honeycomb
Refrigerant Pipe Dimensions Liquid .1/4" / 6.35 mm flare Gas .1/2" / 12.7 mm flare
Drainpipe Dimension O.D. 1" / 26 mm

Sound Level (Low-Mid1-Mid2-High) 32 -34 -36 -37 dB (A)



Model: PMFY-P08NBMU-ER5 - DIMENSIONS







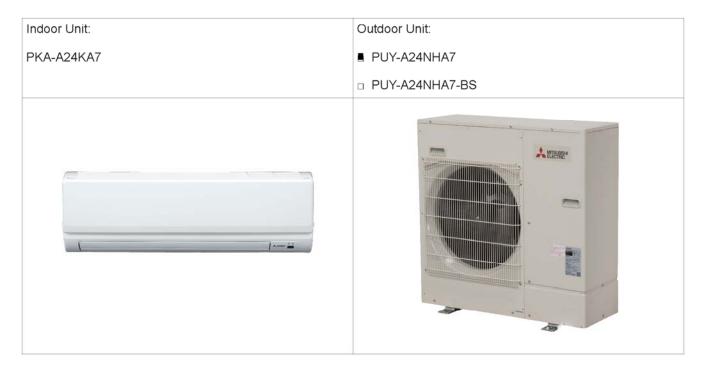
P-SERIES

SUBMITTAL DATA: PKA-A24KA7 & PUY-A24NHA7(-BS) 24,000 BTU/H WALL-MOUNTED AIR-CONDITIONING SYSTEM



Job Name: Payson Smith Hall 3rd Floor Renovations University of Southern Maine

System Reference: IU-9, OU-3 Date: 9-21-17



INDOOR UNIT FEATURES

- · Sleek, compact design
- Simple installation
- · Vane setting for air flow direction control
- · Auto fan speed mode
- · Ideal for spaces such as server rooms, daycare centers, classrooms, churches, small offices, and more

OUTDOOR UNIT FEATURES

- Variable speed INVERTER-driven compressor
- Suction accumulator pre-charged with refrigerant volume for piping length up to 100 ft (70 ft. for A12/18/24/30)
- Low ambient cooling down to -20°F providing 100% capacity (only for PUY models with wind baffles installed)
- 24-hour continuous operation (cooling mode)
- · High pressure protection
- · Fast restart due to bypass valve make it ideal for equipment cooling applications, such as data centers
- Superior energy and operational efficiency

SPECIFICATIONS: PKA-A24KA7 & PUY-A24NHA7(-BS)

Model number	Indoor unit	PKA-A24KA7	
	Outdoor unit	PUY-A24NHA7	
			PUY-A24NHA7-BS
Cooling*1	Maximum Capacity	Btu/h	24,000
	Rated Capacity	Btu/h	24,000
	Minimum Capacity	Btu/h	10,000
	Maximum Power Input	W	1,960
	Rated Power Input	W	1,960
	Moisture Removal Pints/h		5
	Sensible Heat Factor		1
	Power factor	%	96
Efficiency	SEER	Btu/h Btu/h W W Pints/h V AC V AC V DC V DC A	21
	EER *1		12
Electrical	Voltage, Phase, Frequency		208 / 230V, 1-phase, 60 Hz
	Guaranteed Voltage Range V		187 - 253
	Voltage: Indoor - Outdoor, S1-S2	V AC	208V / 230
	Voltage: Indoor - Outdoor, S2-S3	V DC	24
	Voltage: Indoor - Remote controller	V DC	12
	Recommended Fuse/Breaker Size	А	25
	Recommended Wire Size (Indoor - Outdoor)	AWG	14
ndoor unit	MCA	А	1
	Fan Motor Full Load Amperage	А	0.36
	Fan Motor Output	W	56
	Airflow Rate, Dry	CFM	635-705-775
	Airflow Rate, Wet	CFM	570-635-700
	Sound Pressure Level	dB(A)	39-42-45
	Drain Pipe Size	In. (mm)	5/8 (16)
	Heat Exchanger Type		Plate fin coil
	External Finish Color		White Munsell 1.0Y 9.2/0.2
	Unit Dimensions	W: In. (mm)	46-1/16 (1170)
		D: In. (mm)	11-5/8 (295)
		H: In. (mm)	14-3/8 (365)
	Package Dimensions	W: In.	51
		D: In.	18-8/16
		H: In.	14-4/16
	Unit Weight	Lbs. (kg)	46 (21)

SPECIFICATIONS: PKA-A24KA7 & PUY-A24NHA7(-BS)

Model number	Indoor unit		PKA-A24KA7
	Outdoor unit		PUY-A24NHA7
			PUY-A24NHA7-BS
	Package Weight	Lbs.	53
Indoor unit operating	Cooling Intake Air Temp (Maximum / Minimum)	°F	90 DB, 73 WB / 66 DB, 59 WB
temperature range	Heating Intake Air Temp (Maximum / Minimum)	°F	82 DB / 50 DB
Outdoor unit	MCA	А	19
	MOCP	А	26
	Fan Motor Full Load Amperage	А	0.40
	Fan Motor Output	W	86
	Airflow Rate	CFM	1,940
	Refrigerant Control	·	Electronic Expansion Valve
	Defrost Method		Reverse Cycle
	Heat Exchanger Type		Cross fin
	Sound Pressure Level, Cooling*1	dB(A)	47
	Sound Pressure Level, Heating*2	dB(A)	48
	Compressor Type	INVERTER-driven twin rotary	
	Compressor Model		SNB172FWHM1
	Compressor Rated Load Amps	Α	7
	Compressor Locked Rotor Amps	A	11
	Compressor Oil Type // Charge	oz.	FV50S // 23
	External Finish Color		Ivory Munsell 3Y 7.8/1.1
	Base pan heater		n/a
	Unit Dimensions	W: In. (mm)	37-13/32 (950)
		D: In. (mm)	13 + 1-3/16 (330 + 30)
		H: In. (mm)	37-1/8 (943)
	Package Dimensions	W: In.	40-15/16
		D: In.	17-11/16
		H: In.	40-11/16
	Unit Weight	Lbs.	153 (69)
	Package Weight	Lbs.	112 (51)
Outdoor unit operating	Cooling Intake Air Temp (Maximum / Minimum)	°F	115 DB / -20* DB
temperature range	Heating Intake Air Temp (Maximum / Minimum)	°F	70 DB, 59 WB / -4 DB, -4 WB

SPECIFICATIONS: PKA-A24KA7 & PUY-A24NHA7(-BS)

Model number	Indoor unit	PKA-A24KA7	
	Outdoor unit	PUY-A24NHA7	
			PUY-A24NHA7-BS
	Thermal Lock-out / Re-start Temperatures**	°F	-8 / -4 DB
Refrigerant	Туре		R410A
	Charge	Lbs, oz Flared) In.(mm)	7 lbs, 11 oz
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)	225 (69)
	Maximum Height Difference Ft. (m)		100 (30)
	Maximum Number of Bends	15	

AHRI Rated	*1 Cooling (Indoor // Outdoor)	°F	80°F DB, 67°F WB // 95°F DB, 75°F WB
Conditions (Rated data is			
determined at a fixed			
compressor speed)			

Notes

*Wind baffles required to operate below 23°F DB in cooling mode. PUY with wind baffle: -20°F - 115°F.

**System cuts out in heating mode to avoid thermistor error and automatically restarts at these temperatures

SEACOAST PROTECTION

External Outer Panel: Phosphate coating + Acrylic-Enamel coating

Fan Motor Support: Epoxy resin coating (at edge face)

Separator Assembly; Valve Bed: Epoxy resin coating (at edge face)

"Blue Fin" treatment is an anti-corrosion treatment that is applied to the condenser coil to protect it against airborne contaminants.

Notes:

ACCESSORIES: PKA-A24KA7 & PUY-A24NHA7(-BS)

PKA-A24KA7	
3-Pole Disconnect Switch (30A/600V/UL) [fits 2" X 4" utility box]	□ TAZ-MS303
Drain Pan Level Sensor (Control for indoor unit shut off to prevent drain pan overflow)	□ DPLS2
Advanced Blue Diamond Mini-Condensation pump w/ Resevoir & Sensor (110V)	□ X87-711 - 110
Advanced Blue Diamond Mini-Condensation pump w/ Resevoir & Sensor (208/230V)	□ X87-721 - 208/230
Extension Cord for Blue Diamond Pump	□ C13-103
Sauermann Mini-Condensation pump (115V)	□ SI30-115
Sauermann Mini-Condensation pump (230V)	□ SI30-230
MegaBlue Blue Diamond Condensate Pump (110-230V)	□ X87-835
Remote Sensor (extensible)	□ PAC-SE41TS-E
Connector for CN32 (remote ON/OFF)	□ PAC-SE55RA-E
Connector for CN152 (Back up heating)	□ PAC-SE59RA-E
External fan / Heater control relay adapter	□ CN24RELAY-KIT-CM3
Backlit, wall-mounted, wireless	□ MHK1
Wireless Remote Controller	□ MRCH1
Wireless Receiver	□ MFH1
Portable Central Controller	□ MCCH1
Outside Air Sensor	□ MOS1
Wireless adapter	□ PAC-USWHS002-WF-1
BACnet® and Modbus Interface	□ PAC-UKPRC001-CN-1
Wall-mounted, Wired	□ PAC-YT53CRAU-J
Wired remote controller	□ PAR-32MAA-J
T-STAT Interface	□ PAC-US444CN-1
Wired remote controller	□ PAR-32MAA
Simple remote controller	□ PAC-YT53CRAU
Wireless Remote Controller	□ PAR-FL32MA-E
Wire for Remote ON/OFF with CN32 connector	□ PAC-715AD
Lockdown Bracket for wireless, hand-held, remote controllers	□ RCMKP1CB

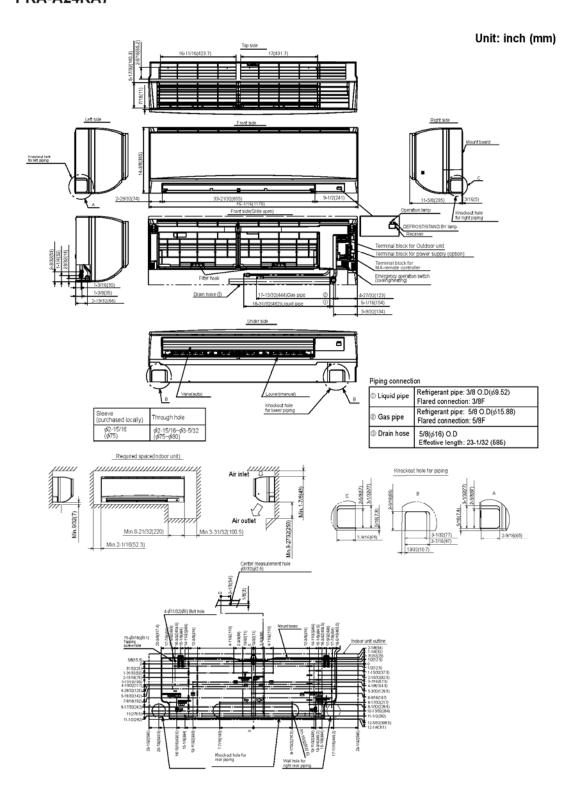
PUY-A24NHA7(-BS)			
Twinning Distribution Pipe (50:50)	□ MSDD-50TR-E		
Front Wind Baffle	□ WB-PA5		
Drain socket	□ PAC-SG61DS-E		
Centralized Drain Pan	□ PAC-SG64DP-E		
M-NET Converter	□ PAC-SF83MA-E		
Control/Service Tool	□ PAC-SK52ST		

ACCESSORIES: PKA-A24KA7 & PUY-A24NHA7(-BS)

PUY-A24NHA7(-BS)	
Wall mounting bracket (powder-coated steel)	□ QCWB2000M-1
Wall mounting bracket (316 Series Stainless Steel)	□ QCWBSS
M-NET control adapter for Building Management System	□ PAC-SF83MA-E
Outdoor Unit Mounting Pad 24" x 42" x 3"	□ ULTRILITE2
Outdoor Unit 3-1/4 inch Mounting Base - Pair (Plastic)	□ DSD-400N
MiniSplit Mounting Stand-Single Fan models - 12"	□ QSMS1201M
MiniSplit Mounting Stand-Single Fan models - 18"	□ QSMS1801M
MiniSplit Mounting Stand-Single Fan models - 24"	□ QSMS2401M
3/8 x 5/8 x 10' / 1/2" Lineset (Twin-Tube Insulation)	□ MPLS385812T-10
3/8 x 5/8 x 15' / 1/2" Lineset (Twin-Tube Insulation)	□ MPLS385812T-15
3/8 x 5/8 x 30' / 1/2" Lineset (Twin-Tube Insulation)	□ MPLS385812T-30
3/8 x 5/8 x 50' / 1/2" Lineset (Twin-Tube Insulation)	□ MPLS385812T-50
3/8 x 5/8 x 65' / 1/2" Lineset (Twin-Tube Insulation)	□ MPLS385812T-65
3/8 x 5/8 x 100' / 1/2" Lineset (Twin-Tube Insulation)	□ MPLS385812T-100

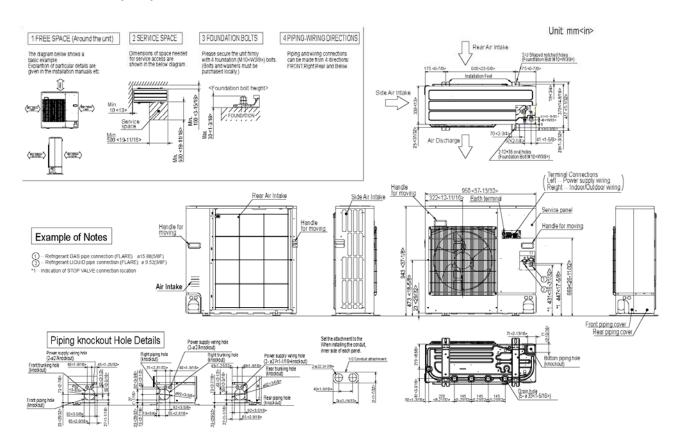
DIMENSIONS: PKA-A24KA7 & PUY-A24NHA7 (-BS)

PKA-A24KA7



DIMENSIONS: PKA-A24KA7 & PUY-A24NHA7 (-BS)

PUY-A24NHA7(-BS)





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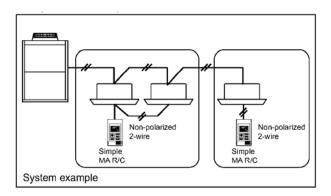


FORM# PKA-A24KA7 / PUY-A24NHA7(-BS) - 201702Ver3

Job Name: Payson Smith Hall 3rd Floor Renovations University of Southern Maine

Schedule Reference: IU UNITS Date: 9-21-17



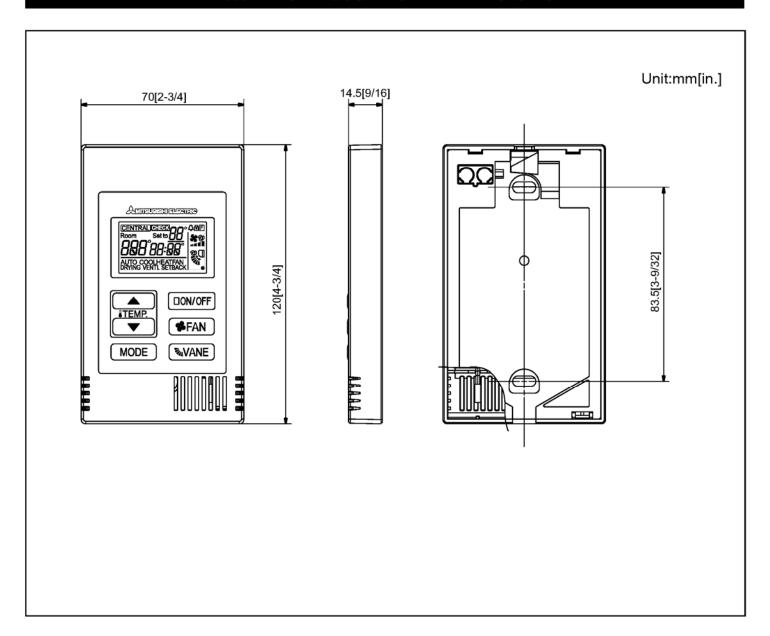


SIMPLE MA REMOTE CONTROLLER (PAC-YT53CRAU) SPECIFICATIONS

- Controls group operation for up to 16 indoor units in a single group
- · Supports both Fahrenheit and Celsius
- · User defined functions:
- ON/OFF
- Operation mode: AUTO (R2-Series only), COOL, HEAT, FAN, DRYING, or SETBACK
- Set temperature
- Fan speed setting
- Air flow direction
- Set temperature range: 40°F 95°F depending on operation mode and indoor unit connected.
- Set temperature range limit: Simple MA allowable set temperature range can be reduced for cool and heat modes.
- LOSSNAY: Simple MA for interlocked system can set high/low/Stop on LOSSNAY.
- Room temperature can be sensed either at the indoor unit (default) or at the remote controller.
- Diagnostics: Displays four-digit error code and error unit address.
- Grouping: Same group use only with other PAC-YT53CRAU Simple MA Controllers, PAR-21MAAU Deluxe MA Remote Controllers, and PAR-FL/A32MA Wireless MA Remote Controllers with up to two remote controllers per group.
- · Addressing: No addressing required.
- Wiring: Uses two-wire, stranded, non-polar control wire for connecting TB15 connection terminal on the indoor unit.
 Requires crossover wiring for grouping across indoor units.
- Dimensions: 2-3/4 x 9/16 x 4-3/4" (70 x 14.5 x 120mm).

Notes:

Model: PAC-YT53CRAU - DIMENSIONS





Job Name: Payson Smith Hall 3rd Floor Renovations University of Southern Maine

System Reference: Centralized Controller Date: 9-21-17



EW-50A

- EW-50A can be a Master Controller or Expansion Controller
- · Master Controller can operate and monitor up to 50 indoor
- Expansion Controller can expand an AE-200A to operate and monitor up to 50 additional indoor units through the touch screen or web browser. Network up to three AE-50A to one AE-200A to allow the AE-200A to manage up to 200 indoor units.

OPTIONAL LICENSES

- SW-BACnet Master for SW-BACnet Expansion: BACnet Function
- Connected air conditioning units can be monitored and operated not only from the existing web browser or the AE-200/AE-50's LCD, but also from the building management system using the BACnet® communication protocol. See SW-BACnet Data Sheet for more information.
- · SW-Charge Master pr SW-BACnet Expansion: Energy Allocation
- The apportioned electricity billing function is an electric energy apportionment system that apportions electric energy using input from electricity meters with a pulse generator function. The respective mounts of electric energy can be apportioned based on the operating status and capacity of each tenant. See SW-Charge Data Sheet for more information.
- · SW-PWeb Master or SW-BACnet Expansion: Online Personal Browser
- Allows tenant managers and general users to control their respective zone conditions via a networked PC, tablet, or mobile phone with or without local remote controllers installed in the space. See SW-PWeb Data Sheet for more information.

SPECIFICATIONS

- · Supports dual set point functionality (connected equipment dependent)
- · Displays:
- CITY MULTI® compressor speed and hi/low pressure
- Advanced HVAC Controller (DC-A2IO) input/output status
- Indoor unit free contact input/output status
- Space Temperature and Humidity (from Smart ME or Al controller)
- Error code
- Unoccupied setback up temperature range

- Functions
- Hold function (temporarily disables schedules indoor unit model dependent)
- Initial setting
- Operation data back-up
- · Permits or prohibits remote controller functions:
- Change Operation Mode
- Change Set point Temperature
- Filter Status
- Change Fan Speed
- Change Air Direction
- · External input/output signals can be used for batch operations such as Start/Stop and Emergency Stop (Requires PAC-YG10HA)
- · Pulse signal input can obtain watt-hour meter, billing data and energy management data based on the cumulative number of pulse signal pulse signals directly input from a metering device.
- Temperature set point range limits can be set for local remote controllers
- User defined indoor unit functions:
- On/Off
- Monitoring and Operation
- Operation mode:
 - o Auto* (Dual or Single set point)
 - o Heat
 - Fan
 - Drying
 - Setback*

Note: *R2 Series only (connected equipment dependent)

- Temperature Setting
- Fan Speed
- Airflow Direction
- · Monitoring and Control:
 - CITY MULTI® indoor units
 - M & P Series units (Requires M-Net adapter)
 - Lossnay units
 - PWFY hydronic heat pump units
 - DIDO controllers
 - CITY MULTI® DOAS
 - Interlock setting enables integration of general equipment inputs/outputs and indoor units
- Scheduling
- Daily
- Annually
- Five pattern weekly seasonal schedule
- · Twenty four scheduled events per day, indoor unit model dependent:
 - ON/OFF
 - Mode
 - Temperature Setting
- Vane Direction
- Fan
- Speed
- Operation Prohibits
- · Trend data:
- Fan operation time - Thermo-on time
- Set temperature - Room temperature
- Al Controller temperature and humidity (Requires PAC-YG63 MCA, 2 inputs total for each controller)
- · Memory back up via USB (universal serial bus)
- · Memory back up via LAN (Local Area Network) port

Model: EW-50A - Specifications, cont.

EW-50A Expansion Controller

Item	Specifications			
Power Supply	Rated input		100-240 VAC ± 10%; 50/60 Hz Single-phase	
M-NET power feeding coefficient	g coefficient		1.5	
	T	Operating Range	-10°C – +55°C (+14°F – +131°F)	
Ambient conditions	Temperature	Non-operating Range	-20°C - +60°C (-4°F - +140°F)	
	Humidity		30-90% RH (No condensation)	
Weight			1.7 kg (4 lbs)	
Dimensions (W v H v D)	172 × 209 × 92 mm (6-13/16 × 8-4/16 × 3-10/16 in)			
Dimensions (W x H x D)	**253 × 172 × 92 mm (10 × 6-13/16 × 3-10/16 in) when using L-fittings			
Installation conditions	Only in a metal control box indoors			

Web Browser Requirements

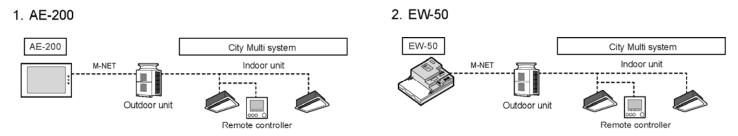
	Item	Requirements		
CPU		1 GHz or faster		
Memory		512 MB or more		
Screen Resolu	ution	1366 x 768 or higher recommended		
Browser	Windows®	Microsoft® Internet Explorer 8.0 Microsoft® Internet Explorer 9.0 Microsoft® Internet Explorer 10.0 Microsoft® Internet Explorer 11.0 **Java execution environment is required. (Verified to run on Oracle® Java Plug-in Ver. 1.8.0_25) **Install Oracle® Java Plug-in that is appropriate for your operating system. When using a 64-bit OS, install a 32-bit and a 64-bit Java Plug-in. **The version of the Oracle® Java Plug-in can be verified by clicking [Java] in the Control Panel.		
	Port or LAN Card	100 BASE-TX		
100 BASE-TX		e.g., mouse		

Notes:		

Models: EW-50A - System Configuration

*AE-200A is indicated as AE-200 *AE-50A is indicated as AE-50

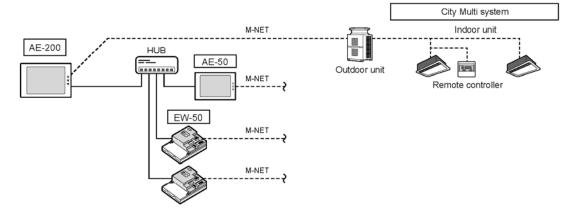
Controlling 50 or fewer units of equipment



Controlling more than 50 units of equipment (with connection to an AE-200 controller)

Note

AE-200 is required when using AE-50.

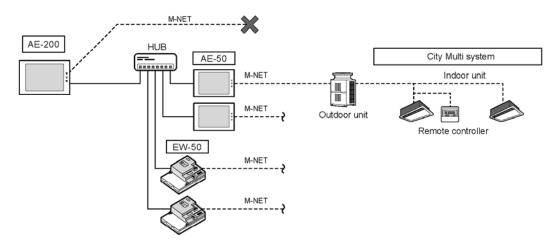


When using an apportioned electricity billing function

Note: AE-200 is required to use a billing function.

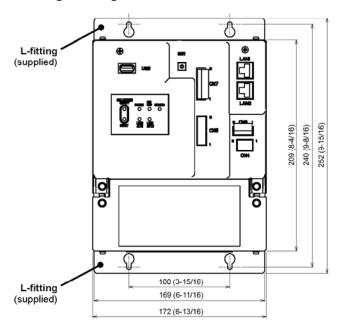
Note: AE-200 M-NET cannot be used when a billing function is used.

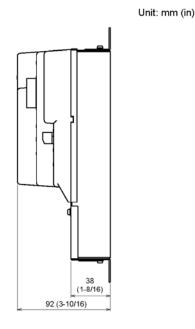
Note: "Charge" license is required to use a billing function.



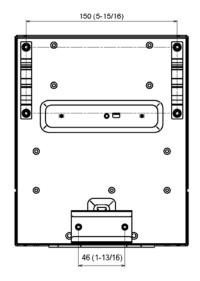
Model: EW-50A - Dimensions

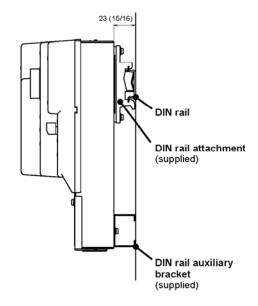
(1) When using L-fittings





(2) When using DIN rail







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P-SERIES

Model: PAC-SF83MA-E M-NET Control Adapter for P-Series Outdoor units

Job Name: Payson Smith Hall 3rd Floor Renovations University of Southern Maine

System Reference: OU-3 Date: 9-21-17



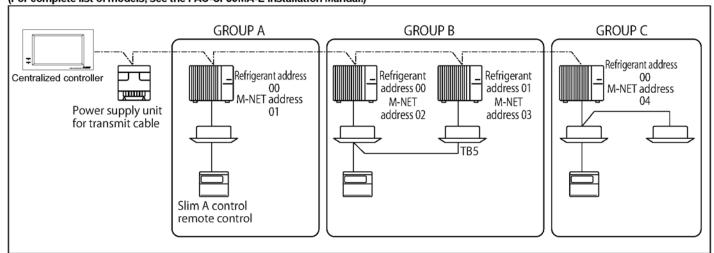
P-SERIES M-NET CONTROL ADAPTER (PAC-SF83MA-E) SPECIFICATIONS

- Allows the P-Series outdoor units to communicate with the CITY MULTI[®] Controls Network
- · Connects to outdoor unit
- · Requires one converter per outdoor unit

LIST OF MODELS

Group A	Group B
PUY-A12NHA	PUZ/Y-A24,30,36,42NHA
PUZ/Y-A18NHA	PUZ/Y-A24,30,36,42NHA2
PUZ/Y-A18NHA2	PUZ/Y-A24,30,36,42NHA3
PUZ/Y-A18NHA3	PUZ/Y-A24,30,36,42NHA4
PUZ/Y-A18NHA4	PUZ/Y-A42NHA5
	PUZ-HA30/36NHA
	PUZ-HA30/36NHA2
	PUZ-HA30/36NHA4









Job Name: Payson Smith Hall 3rd Floor Renovations University of Southern Maine

System Reference: Date: 9-21-17

OVERVIEW

The BACnet® function can be used when connecting AE-200/AE-50/EW-50 to the open network BACnet® that is used for the building management system. Connected air conditioning units can be monitored and operated not only from the existing web browser or the AE-200/AE-50's LCD, but also from the building management system using the BACnet® communication protocol.

BACnet® communication now communicates from a centralized controller's LAN2 port.

LICENSES

- · SW-BACnet Master
- Master Controller license for AE-200A and EW-50A
- SW-BACnet Expansion
 - Expansion Controller license for AE-50A and EW-50A

SW-BACnet SPECIFICATIONS

- · Control up to 50 groups
 - 1 to 16 indoor units can be collectively controlled in a group
- Supports dual set-point functionality (connected model dependent)
- See page 3 for Points List
- BTL Compliant
- BACnet® communication specifications are based on ANSI/ASHRAE Standard 135-2010



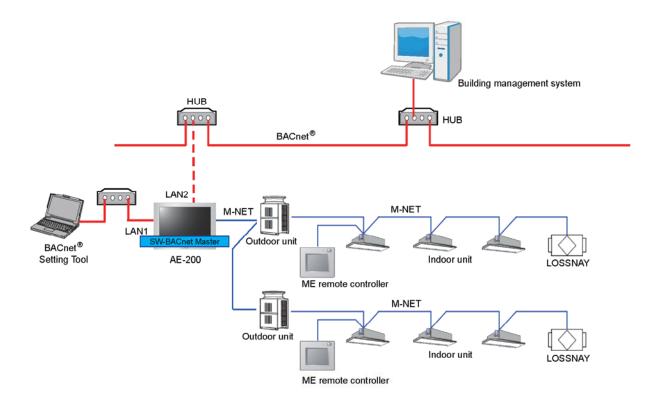
PC REQUIREMENTS

The BACnet® Setting Tool is dedicated software to set network settings and settings related to BACnet® communication (also including object selection and COV/Event notification) and then set the settings to the centralized controller.

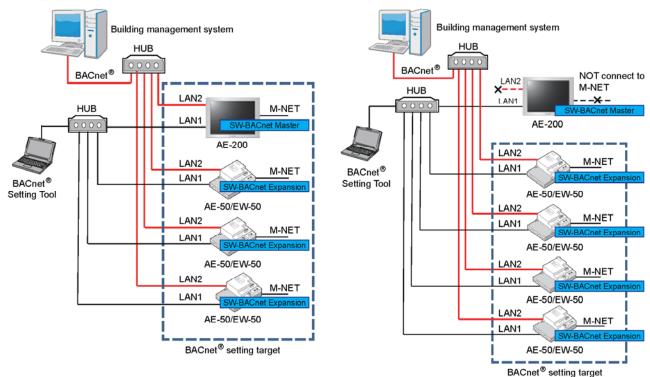
The PC used for the BACnet® Setting Tool requires the following environment.

ltem	Requirement	Remarks
CPU	1 GHz or higher	
Memory	1 GB or more	
HDD space	100 MB or more	C drive
Screen resolution	1024 x 768 or higher	
LAN	1 port (100 BASE-TX)	
os	Microsoft [®] Windows [®] 7 32-bit/64-bit Microsoft [®] Windows [®] 8.1 32-bit/64-bit * Not compatible to Windows Vista [®] .	
Execution environment	Microsoft [®] .NET Framework 4.5 or later	
Others	Pointing device such as a mouse Internet connection environment (required when installing .NET Framework)	

Model: SW-BACnet - System Example



- (A) When controlling more than 50 units of equipment (B) When using an apportioned electricity billing and not using an apportioned electricity billing function
- function



Model: AE-200/AE-50/EW-50 BACnet® Points List

Model: AE-200/AE-30/EVV-30 DAC
Object List
On Off Setup
On Off State, Number of ON/OFF, Cumulative operation time
Alarm Signal (4-digit error code)
Error Code
Operational Mode Setup
Operational Mode State
an Speed Setup
an Speed State
Room Temp [Water Temp]
Set Temp [Set Water Temp]
Set Temp Cool
Set Temp Heat
Set Temp Auto
Filter Sign [Circulating Water Exchange Sign]
Filter Sign Reset [Circulating Water Exchange Sign Reset]
Prohibition On Off
Prohibition Mode
Prohibition Filter Sign Reset [Prohibition Circulating Water Exchange Sign Rese
Prohibition Set Temperature
/I-NET Communication State
System Forced Off
Air Direction Setup
Air Direction State
Set High Limit Setback Temp
Set Low Limit Setback Temp
/entilation Mode Setup
/entilation Mode State
Air To Water Mode Setup
Air To Water Mode State
System Alarm Signal (4-digit error code)
Pl Controller Alarm Signal (4-digit error code)
Group Apportioned Electric Energy
nterlocked Units Apportioned Electric Energy
PI controller Electric Energy 1–4
Pulse Input Electric Energy 1–4
Group Apportionment Parameter
nterlocked Units Apportionment Parameter
light Purge State
hermo On Off State
rend Log Room Temp
rend Log Group Apportioned Electric Energy
rend Log Interlocked Units Apportioned Electric Energy
rend Log PI controller Electric Energy 1–4
rend Log Pulse Input Electric Energy 1–4
rend Log Group Apportionment Parameter
rend Log Interlocked Units Apportionment Parameter



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Submittal ASPE **Data Sheet**

White Series

Mini Univolt 100-250v Pump Kit 83939 (ASP-MW-UNI)

Project Information:
Job Name: Payson Smith Hall 3rd Floor Renovations University of Southern Maine
Location:
Engineer:
Submitted to:
For: Reference Approval Construction
Submitted by:
Reference: IU-9
Submittal Information:
Approval:
Date: 9-21-17
Construction:
Unit #:
Drawing #:

(Sec. I) Product Specifications:

Pump Length - 7.125" Pump Width - 2" Pump Height - 4.5"

Capacity - 3.2 GPH @ Zero Head / 0.8 GPH @ 33' Head

Max BTUs - 30000 Max Head in Feet - 33 Max Temperature - N/A Max Suction Lift - N/A Sound Level - 25dB(A)

Dry Contact Rating - 3A NO/NC

Voltage - 100-250 Amperes - .18 Watts - 16

Remote Reservoir - Y Plenum Rated - N

Cable Length - 39"

Pump Selector & Wiring Diagrams Available at

http://www.rectorseal.com/aspenpump.html

www.rectorseal.com 2601 Spenwick Drive, Houston, TX 77055

(Sec. II) Ordering Information:

Product Code - 83939 Model - ASPMWUNI Carton Qty - 1 Carton Weight - 1.5

(Sec. III) Carton Contents:

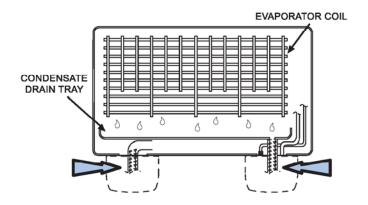
Monobloc Pump Assembly 39" Power Cable Inline Fuse Installation Manual Wall Anchors (3) Screws (3)

Hose Clamp Water Treatment Tablet Anti-siphon (1)

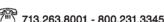
(Fig. I) Product Image:



(Fig. II) Typical Pump Locations:



(RectorSeal's products are subject to continuous improvements; RectorSeal reserves the right to modify product design, specifications & information in this data sheet without notice and without incurring any obligations; ASPEN® is a registered trademark of Aspen Oldco Limited Company UK Mini White is a registered trademark of Aspen Pumps Limited Company UK





FRONT WIND BAFFLE WB-PA3 / WB-PA4 / WB-PA5

DESIGNED FOR P-SERIES AND PUMY OUTDOOR UNITS ONLY

Job Name: Payson Smith Hall 3rd Floor Renovations University of Southern Maine

System Reference: OU-1,2,3 Date: 9-21-17



WB-PA3 / WB-PA4 / WB-PA5

GENERAL FEATURES

- · WB-Series Wind Baffles allow P-Series outdoor units to operate at full capacity to 0° F DB cooling.

 • Allows PUMY outdoor units to operate to 23° F DB cooling.
- Prevents wind from reversing outdoor fan rotation when un-energized.
- Durable, low maintenance construction.
- WB-PA3 Wind Baffle allows PUMY-P-NKMU1 outdoor units to operate down to 5° F DB at 100% capacity in cooling mode and down to -13° F DB in heating mode with a de-rate.

PLEASE NOTE

- · Install outdoor units with the back surface facing wall side to eliminate the effects of external wind.
- · Outdoor units should not be installed in an orientation or site where the wind blows directly at the back of the unit.
- · Wind baffle should not be used where there is any obstacle at either side or above the outdoor unit as the discharged air will be blocked.

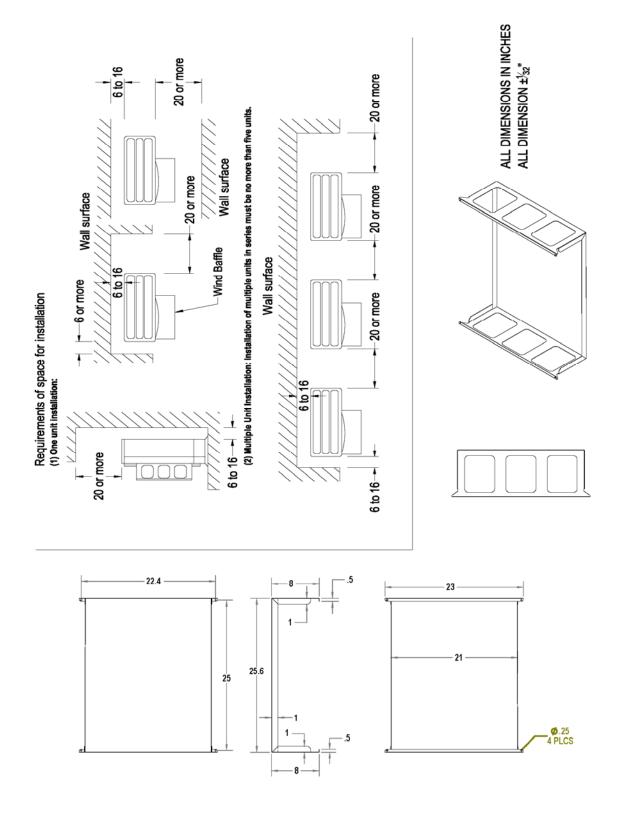
SPECIFICATIONS

		WB-PA3	WB-PA4	WB-PA5	
Color Matches P-Series Outdoo				tdoor Unit	
Exterior	Surface Treatment	Polyester Powder Paint			
	Material	Alloy Hot-Dip Zinc Coated Carbon Steel Sheet			
Weight		8 Lbs. 8 Oz. 7 Lbs. 9 oz 8 Lbs. 5 Oz.			

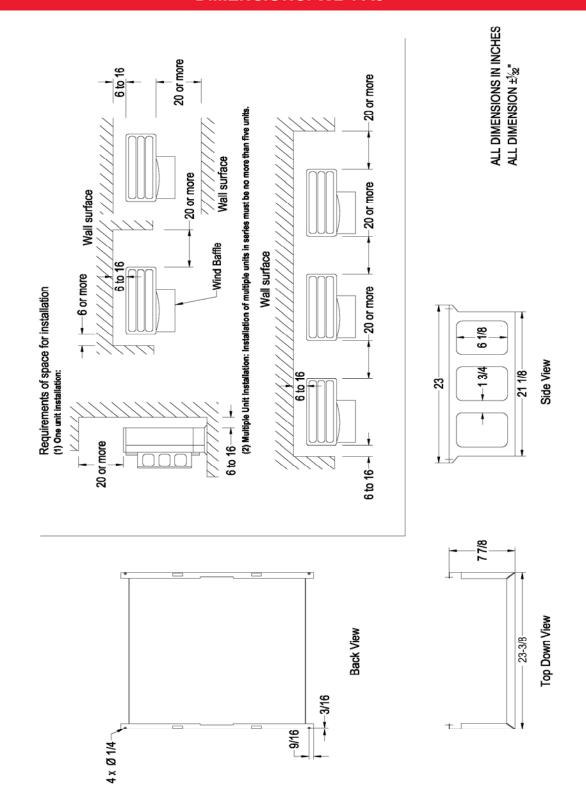
MODEL REQUIRED PER OUTDOOR UNIT

	Type and Quantity			
UNIT MODEL	WB-PA3	WB-PA4	WB-PA5	
PUY/Z-A24NHA4			1	
PUY/Z-A30NHA4			1	
PUY/Z-A36NHA4			1	
PUY/Z-A42NHA4			2	
PUY/Z-A42NHA5			2	
PUZ-HA30NHA4			2	
PUZ-HA36NHA4			2	
PUZ-HA30NHA5			2	
PUZ-HA36NHA5			2	
PUZ-HA42NKA	2			
PUMY-P36NHMU			2	
PUMY-P36NKMU1	2			
PUMY-P48NHMU			2	
PUMY-P48NKMU1	2			
PUMY-P60NKMU1	2			
PUY/Z-A24NHA6			1	
PUY/Z-A30NHA6			1	
PUY/Z-A36NHA6			1	
PUY/Z-A42NHA6			2	
PUY/Z-A12NKA7		1		
PUY/Z-A18NKA7		1		
PUY/Z-A24NHA7			1	
PUY/Z-A30NHA7			1	
PUY/Z-A36NKA7	2			
PUY/Z-A42NKA7	2			

DIMENSIONS: WB-PA3



DIMENSIONS: WB-PA5



Manufactured for MITSUBISHI ELECTRIC US, INC.

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ADVANCED WIND BAFFLE WB-SD / WB-RE

DESIGNED FOR P-SERIES PUY-7 OUTDOOR UNITS ONLY

Job Name: Payson Smith Hall 3rd Floor Renovations University of Southern Maine

System Reference: OU-1,2 Date: 9-21-17













RE5 WB-RE6

GENERAL FEATURES

- Allows P-Series outdoor units to operate to -20° F DB cooling.
- · Prevents wind from reversing outdoor fan rotation.
- · Durable, low maintenance construction.

PLEASE NOTE

- Installation location will dictate Advanced wind baffle requirements.
 - Refer to the installation manual for additional details.
- Advanced Wind Baffles should be installed to prevent any wind blowing directly into the unit.
- Front Wind Baffle (WB-PA3, WB-PA4, WB-PA5) is also required for -20° F operation.

MODEL REQUIRED PER OUTDOOR UNIT

UNIT MODEL	Type and Quantity					
ONIT WODEL	WB-SD4 WB-RE4 WB-SD5 WB-RE5 WB-SD6				WB-RE6	
PUY-A12NKA7	1	1				
PUY-A18NKA7	1	1				
PUY-A24NHA7			1	1		
PUY-A30NHA7			1	1		
PUY-A36NKA7					1	1
PUY-A42NKA7				·	1	1

SPECIFICATIONS

		WB-SD4	WB-RE4
	Color	Matches P-Series Outdoor Unit	
Exterior	Surface Treatment	Polyester Powder Coating	
	Material	Alloy Hot-Dip Zinc Coated Carbon Steel Sheet	
Weight (Lbs) 6 11		11	

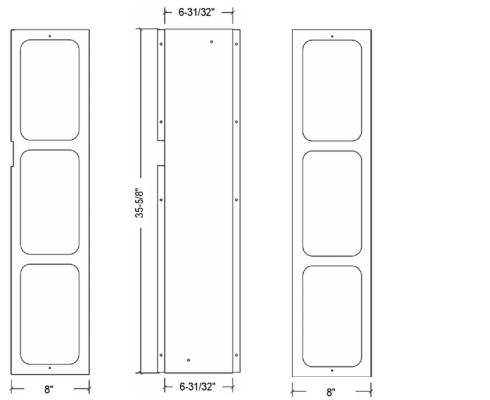
		WB-SD5	WB-RE5
	Color	Matches P-Series Outdoor Unit	
Exterior	Surface Treatment	Acrylic Resin Coating	
	Material	Alloy Hot-Dip Zinc Coated Carbon Steel Sheet	
Weight		10 18	

		WB-SD6	WB-RE6
	Color	Matches P-Seri	es Outdoor Unit
Exterior	Surface Treatment	Acrylic Res	sin Coating
	Material	Alloy Hot-Dip Zinc Coat	ted Carbon Steel Sheet
Weight		15	35

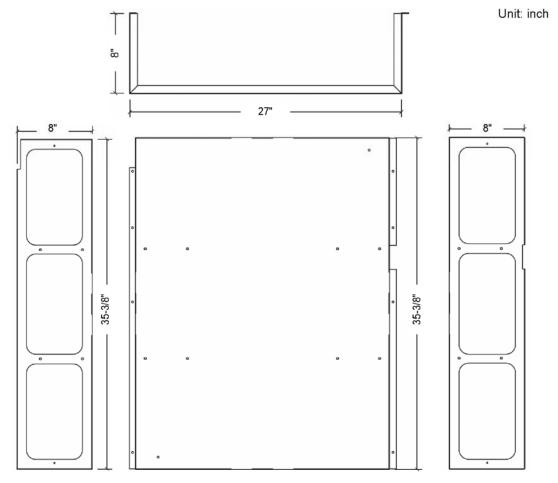
DIMENSIONS: WB-SD5 and WB-RE5

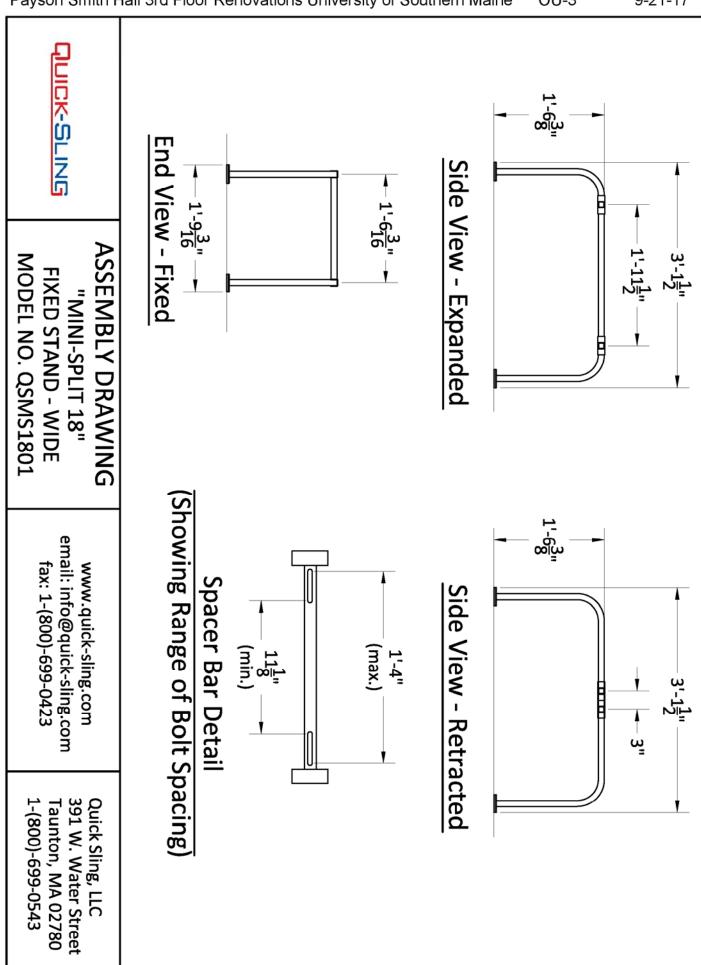
WB-SD5

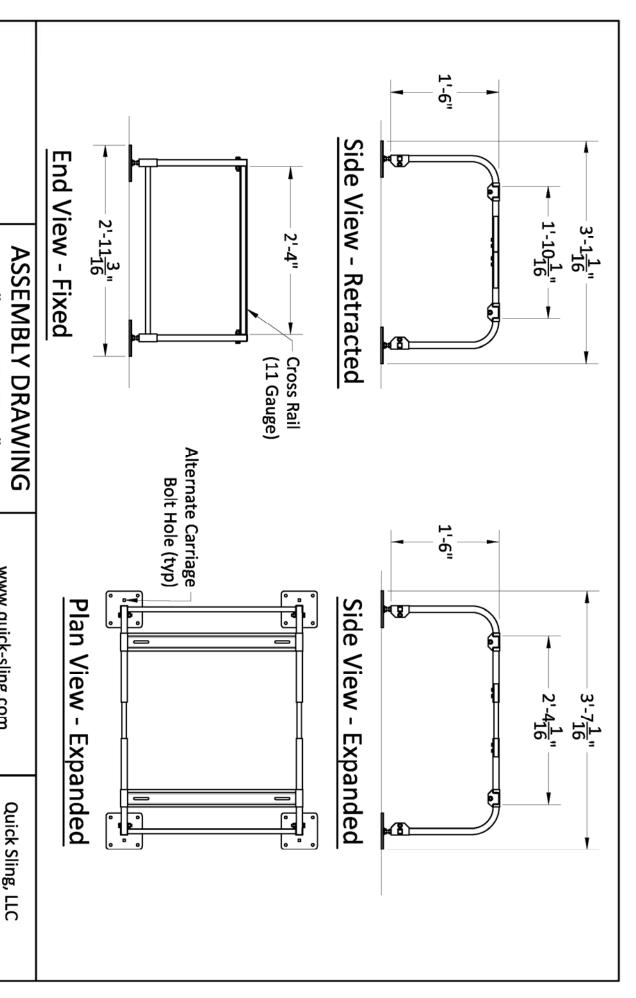
Unit: inch



WB-RE5







Quick-SLING

ADJUSTABLE STAND - WIDE

"MINI-SPLIT 18"

email: info@quick-sling.com fax: 1-(800)-699-0423

1-(800)-699-0543

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Taunton, MA 02780

www.quick-sling.com

MODEL NO. QSMS1802

MITSUBISHI CITY MULTI VRF OUTDOOR UNIT SCHEDULE

												ā	Electrical-Per Module	9	
							Design Cooling	Design Heating	Corrected	Corrected			208/230 or [460V]		
					Naminal Cooling	Nominal Heating	Nominal Heating Outdoor Temp	Outdoor Temp	Cooling Total	Heating Capacity		MCA 208/230 or			
System Tag	Tag Reference	M-Net Address	Model Number	Modules	Capacity (BTU/h)	Capacity (BTU/h)	DB (°F)	WB (°F)	WB (°F) Capacity (BTU/h)	(BTU/h)	Voltage / Phase	[460V]	RFS	MOCP	Notes / Options
			PUMY-								208-230V/1-				
System 1	00.1	51	P36NKMU1	P36	36,000.0	42,000.0	87.0	-6.5	26,034.7	21,723.6	phase	31	40	44	1, 2, 3, 4, 5
			PUMY-								208-230V/ 1-				
System 2	OU-2	55	P36NKMU1	P36	36,000.0	42,000.0	87.0	-6.5	28,037.3	21,720.8	phase	31	40	44	1, 2, 3, 4, 5
											208/230V / 1-				
OU-3		6	PUY-A24NHA7		24,000.0	0.00	87.0	-6.5	23,932.7	0.00	phase	N/A	N/A	N/A	1, 2, 3, 4, 5

Notes & Options:

1 Nominal rocaling searlies are based on indoor coil EAT of 80/67*F (DB), outdoor of 95'F (DB)

2 Nominal heating capacities are based on indoor coil EAT of 70'F (DB), outdoor of 43"F (WB);

2 Nominal heating capacities are based on AHR1 1'20 test method for mixture of ducted & non-ducted indoor units.

3 Efficiency values for EER, IEER, CDP are based on AHR1 1'20 test method for mixture of ducted & non-ducted indoor units.

4 For systems with multiple modules, refrigerant ppe dimensions indicate total system combined piping downstream of module 5 Added field charge listed is in addition to factory charge, this must be updated based upon final as-built piping layout.

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Room Name Ting Reference Model Type Room Name Ting Reference Type T	MILSUBISHI CILI MULII VAF INDOOR UNII SCHEDULE				1100															
Room Name Ting Reference Woode Type Capically (FTUA) Capic															Refrig Pipe Dim Liquid/Suction					
Housing Date Tigg Reference Tigg Reference Model Type Capically (ETULI)								Cooling Design	Heating Design		ن	corrected Capacity			(inch)		Max Fan ESP			
No.									Entering Temp	Cooling Diversity		ĺ	Heating Diversity			Peak Fan Airflow	Setting			
Notes Top Notes Top Notes Top Notes Top Notes Note						Nominal Cooling	Nominal Heating		CBWB (*F)/		Cooling Total	Cooling Sensible		Heating Capacity		(cfm) / [Design	208V/230V (IN		Electrical	
Name	System Tag	Room Name	Tag Reference	Model	Lype	Capacity (BTU/h)	Capacity (BTU/h)	_	[Water in temp]		Capacity (BTU/h)	Capadity (BTU/h)	Note 5, 6)	(BTU/h)		gpm G(US)/min)	WG)	Voltage / Phase	MCAMFS	Notes / Options
U				PMFY-POGNBMU-	Ceiling cassette													208/230V/1-		
U-1 PMFY-POSHBM U-1 Way almost black	System 1			ER5	bpe				70.0						1/4 / 1/2	307	i Ca		0.25/15	1, 2, 3, 4, 5, 6
U					Celling cassette															
1.4 ERS	System 1			ER5	(1-way airtiow) type		8,700.0		70.0			Ī		5,001.6	1/4 / 1/2	307	N G	zuszzuvin- phase	0.25/15	1,2,3,4,5,6
1.04 PMFY-P080BM PMFY-P0					Ceiling cassette															
1.2 PMFY-POSNBMU (1 "way simflow) 0.000 0.700 0.700 FULL DEMAND 0.005	System 1			PMFY-POSNEMU-			0.000.0		002						1/4 / 1/2	328	N 0	208/230V/1- phase	0.25/15	1.2.3.4.5.6
December					Gessette					1			т							
10.2 ERS				PMFY-P06NBMU-	(1-way airflow)												2	208/230V/1-		
10-5 EPS - POINT BANK Colleg cassarile PARFY-POINT BANK Colleg cassarile PARFY-POINT BANK Colleg cassarile Coll	System 1							0.87.0	70.0						1/4 / 1/2	307	d	phase	0.25/15	1, 2, 3, 4, 5, 6
1.5 PMRY-POSNBMUL (*** wy simflow) 1.5 PMRY-POSNB					Celling cassette															
10-5 FR5				PMFY-P06NBMU-	(1-way airflow)												2	208/230V/1-		
1.7 PMFY-POSHBAIL C-III CEMAND 1.0.7 PMFY-POSHBAIL (-I way sinflow) 1.0.6 PMFY-POSHBAIL (-I way sinflow)	System 2				type				70.0	_			П		14/1/2	307	G	phase	0.25/15	1, 2, 3, 4, 5, 6
1.7 PMFY-POSMEMU-(1-way-inflow) 6,000 0 6,700 0 70.0 FULL DEMAND 6,008 0 5,008 3 FULL DEMAND 6,008 0 4,534 7 1.9 FMFY-POSMEMU-(1-way-inflow) 8,000 0 80.087 0 70.0 FULL DEMAND 8,010 7 6,219 9 FULL DEMAND 5,225 7 1.9 FMFY-POSMEMU-(1-way-inflow) 8,000 0 9,000 0 80.087 0 70.0 FULL DEMAND 8,010 7 6,219 9 FULL DEMAND 5,225 7 1.9 FMFY-POSMEMU-(1-way-inflow) 8,000 0 9,000 0 80.087 0 70.0 FULL DEMAND 8,010 7 6,219 9 FULL DEMAND 5,225 7 1.9 FMFY-POSMEMU-(1-way-inflow) 8,000 0 9,000 0 9,000 0 70.0 FULL DEMAND 8,010 7 6,219 9 FULL DEMAND 5,225 7 1.9 FMFY-POSMEMU-(1-way-inflow) 8,000 0 9,000 0 9,000 0 70.0 FULL DEMAND 8,010 7 6,219 9 FULL DEMAND 5,225 7 1.9 FMFY-POSMEMU-(1-way-inflow) 8,000 0 9,000 0 9,000 0 70.0 FULL DEMAND 8,010 7 6,219 9 FULL DEMAND 5,225 7 1.9 FMFY-POSMEMU-(1-way-inflow) 9,000 0 9,000 0 9,000 0 9,000 0 7,00					Ceiling cassette													100000000000000000000000000000000000000		
U-7				PMFY-PUSNEMU-	(1-way aimow)												N	-LING		
U-6 PMFY-POSHBAID (1 ****) Wilding -Lassoon Wilden -Lassoon Wilding -Lassoon William - William	System 2				bype			9.087.0	0.07	- 1					1/4 / 1/2	30/	<u>a</u>	phase	0.75715	1, 2, 3, 4, 5, 6
U-6 EPS December Section S				DMEV. DOSNEMIL	(1 way aidlow)													SUBDITIVITY.		
Colling California Colling	Sueform 2			FRE	hro		00000		20.0						C/1 / W/	328	N C	_	0.25/15	122458
n.2 U.9 FRAT-POSNEML (**avg-airfraw) 8,000 9,000 80,087 0 70.0 FULL CEMAND 8,010.7 62199 FULL DEMAND 8,275.7					Celling cassette			Ι					т							
n.2 IU-8 ERS type 8,000 8,000 700 FULL DEMAND 8,010 7 825.7				PMFY-P08NBMU-	(1-way airflow)												10	208/230V/1-		
And Annual Control of the Control of	System 2				bype			0.087.0	70.0					3,225.7	1/4 / 1/2	328	G.	phase	0.25/15	1, 2, 3, 4, 5, 8
					Wall mounted		0 000		0 000							-			Powered by	
ID-9 PAYAZAKA IVPO ZAGUU ZOLUGIU JUU ITUL DEMAND ZAGUZI INASOG	500		6.0	PRA-AZ4RA4	ype	24,000.0	0.000,00	90.000	70.0	FULL DEMAND	1	10,435.3	FULL DEMAND		307.30	6//			Cutabor	1, 2, 3, 4, 5, 5

Notion & Options:

Notion & Options:

Notion and Competition are based on incloor coal EAV of 80/0/7F (DBJAND), outdoor of 45°F (NB))

Notinal storing repaid is an expected on incloor coal EAV of 70°F (DB), outdoor of 45°F (WB)

Notinal storing reduction to outdoor incloor and the competition of t

