



Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 10/12/2017

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 Transmi



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Date: _____

Submittal # 1-001

To:	Airtemp
From:	Homans Associates 250 Ballardvale Street Wilmington, MA 01887

Date:	9-21-17
Transmitted By:	Kevin Faria
Copied To:	Nick St. Ours

Project	Payson Smith Hall 3rd Floor Renovations University of Southern Maine	Architect	
Order #		Engineer	
Purchaser			

Submittal Name: Equipment List

Submitted For :	Via:	The Following:
<input checked="" type="checkbox"/> Approval/Action	<input type="checkbox"/> Overnight Delivery	<input type="checkbox"/> Drawings
<input type="checkbox"/> Information	<input type="checkbox"/> Mail	<input type="checkbox"/> Specifications
<input type="checkbox"/> Distribution	<input checked="" type="checkbox"/> E-Mail	<input type="checkbox"/> Digital Files
<input type="checkbox"/> Record	<input type="checkbox"/> Courier	<input checked="" type="checkbox"/> Submittals
<input type="checkbox"/> Revised/Resubmit	<input type="checkbox"/> Fax	<input type="checkbox"/> O & M Manuals
	<input type="checkbox"/> Other	<input type="checkbox"/> Other

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



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OU-1,2	WB-PA3	Wind Baffle (1 Piece) for ALL NEW PUMY "K" MODELS	PDF	For Approv	
OU-3	WB-PA5	Front Wind Baffle (1 piece)	PDF	For Approv	
OU-1,2	WB-RE5	Rear Wind Baffle (1 piece)	PDF	For Approv	
OU-1,2	WB-SD5	Side Wind Baffle (1 piece)	PDF	For Approv	
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

Date: _____



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

System Reference: OU-1,2

Date: 9-21-

UNIT OPTION

- Standard Model..... PL Date: _____
- Seacoast (BS) model PUMY-P36NKMU1-BS



OUTDOOR VRF SYSTEM

ACCESSORIES

- Joint Kit For details see Pipe Accessories Submittal
 - Header Kit For details see Pipe Accessories Submittal
 - Air Outlet Guide (One Piece)**..... PAC-SH96SG-E
 - Front Wind Baffle (One Piece)**..... WB-PA3
 - Drain Pan..... PAC-SH97DP-E
 - Drain Socket..... PAC-SG61DS-E
 - Base Pan Heater..... PAC-SJ20BH-E
- **PUMY requires two outlet guides and wind baffles for installation.

Specifications		Model Name
Unit Type		PUMY-P36NKMU1 (-BS)
Nominal Cooling Capacity (208/230V) ^{*1}	Btu/h	36,000
Nominal Heating Capacity (208/230V) ^{*2}	Btu/h	42,000
Operating Temperature Range	Cooling (Outdoor)	5° to 115° F (-15 to +46° C) DB ^{*3 *4}
	Heating (Outdoor)	-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, Phase, Hertz	208/230V, 1-Phase, 60Hz
Minimum Circuit Ampacity (MCA)	A	31
Maximum Overcurrent Protection (MOP)	A	44
Recommended Fuse Size	A	40
Piping Diameter (Flare) In. / mm	Liquid (High Pressure)	3/8 / 9.52
	Gas (Low Pressure)	5/8 / 15.88
Indoor Unit	Total Capacity	50% to 130% of outdoor unit capacity
	Model / Quantity	P6 to 36 / 1 to 7
Fan Type x Quantity		Propeller fan x 2
Fan Motor Output	kW	0.074 + 0.074 (two fan motors)
Airflow Rate	CFM	3,885
Compressor Operating Range	Cooling	29% to 100%
	Heating	24% to 100%
Compressor Type x Quantity		INVERTER-driven Scroll Hermetic x 1
Compressor Motor Output	kW	2.8
Sound Pressure Level	Cooling	49
	Heating	53
Refrigerant		R410A; 10 lbs. + 9 oz. (4.8 kg)
Lubricant		FV50S (2.3 liters)
Protection Devices	High Pressure	High pressure sensor, High pressure switch 601 psi (4.15 MPa)
	Inverter Circuit	Over-heat protection, Over-current protection
	Compressor	Discharge thermo protection, Over-current protection
AHRI Ratings (Ducted/Non-Ducted)	EER	12.6 / 14.2
	SEER	15.6 / 21.0
	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

*2 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.

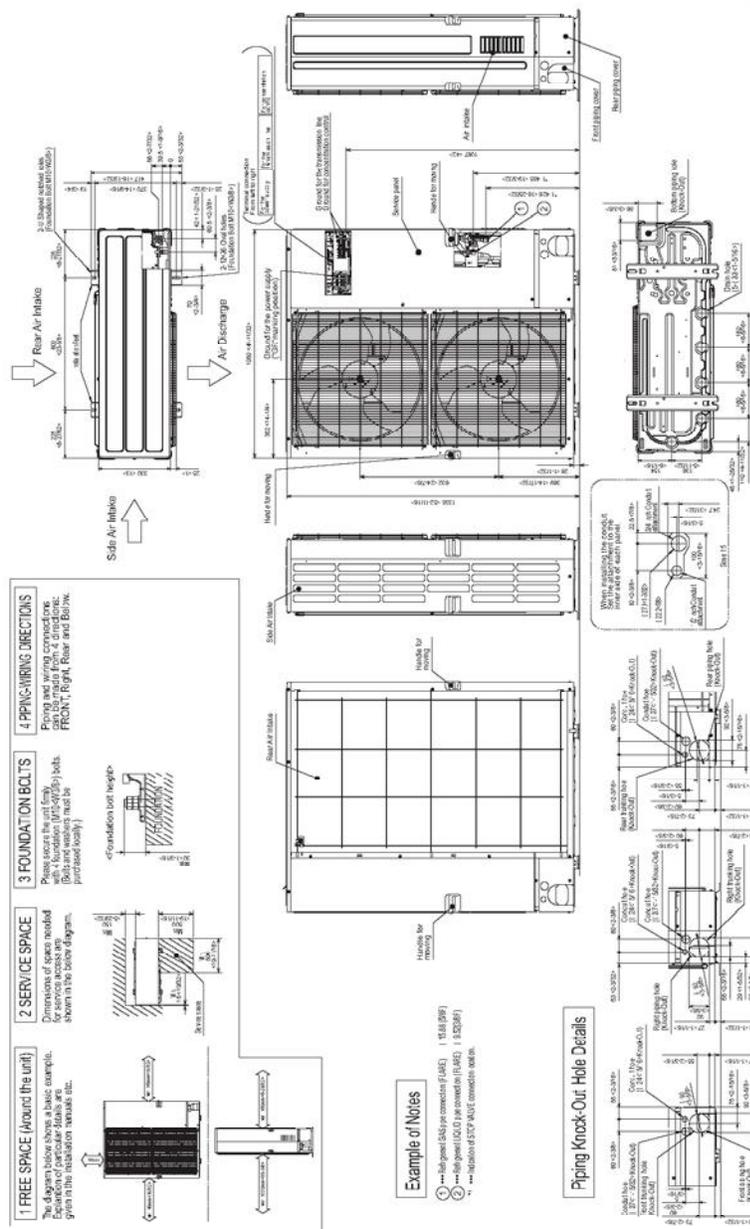
Model: PUMY-P36NKMU1 (-BS)- DIMENSIONS



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Date: _____

Unit: mm
<in>



NOTES

Blue Fin Anti-corrosion Protection:
Cellulose- and polyurethane-resin coating treatment applied to condenser coil that protects it from air contaminants.
Standard: $\geq 1\mu\text{m}$ 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



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

Schedule Reference: IU-1,2,3,5,7

Date: 9-21-1

Date: _____



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*

Cooling6,000 Btu/h
Heating6,700 Btu/h

Power

Power Source208 / 230V, 1 phase, 60Hz

Power Consumption

Cooling 0.04 kW
Heating 0.04 kW

Current

Cooling 0.20 A
Heating 0.20 A
Minimum Circuit Ampacity (MCA)0.25 A
Maximum Overcurrent Protection (MOCP)15 A

External FinishGrille: 6.4Y 8.9/0.4

Dimensions

Inches9-1/16 h x 31-31/32 w x 15-9/16 d
mm230 h x 812 w x 395 d

Grille

Inches1-3/16" h x 39-3/8" w x 18-17/32" d
mm30 h x 1000 w x 470 d

Net Weight

Unit31 lb / 14 kg
Grille7 lb / 3 kg

Coil TypeCross fin

Fan

Type x QuantityLine flow fan x 1
Airflow Rate (Low-Mid1-Mid2-High)230-254-283-307 CFM
Motor TypeDC brushless motor

Air FilterPP honeycomb

Refrigerant Pipe Dimensions

Liquid1/4" / 6.35 mm flare
Gas1/2" / 12.7 mm flare

Drainpipe DimensionO.D. 1" / 26 mm

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

Notes:



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

Schedule Reference: IU-4,6,8

Date: 9-21-1

Date: _____



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*

Cooling8,000 Btu/h
Heating9,000 Btu/h

Power

Power Source208 / 230V, 1 phase, 60Hz

Power Consumption

Cooling 0.04 kW
Heating 0.04 kW

Current

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

Inches9-1/16 h x 31-31/32 w x 15-9/16 d
mm230 h x 812 w x 395 d

Grille

Inches1-3/16" h x 39-3/8" w x 18-17/32" d
mm30 h x 1000 w x 470 d

Net Weight

Unit31 lb / 14 kg
Grille7 lb / 3 kg

Coil Type

.....Cross fin

Fan

Type x QuantityLine flow fan x 1
Airflow Rate (Low-Mid1-Mid2-High)258-283-304-328 CFM
Motor Type DC brushless motor

Air Filter

.....PP honeycomb

Refrigerant Pipe Dimensions

Liquid1/4" / 6.35 mm flare
Gas1/2" / 12.7 mm flare

Drainpipe DimensionO.D. 1" / 26 mm

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

Notes:





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

Indoor Unit: PKA-A24KA7	Outdoor Unit: <input checked="" type="checkbox"/> PUY-A24NHA7 <input type="checkbox"/> PUY-A24NHA7-BS
	

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



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

Date: _____

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		21	
	EER *1		12	
Electrical	Voltage, Phase, Frequency		208 / 230V, 1-phase, 60 Hz	
	Guaranteed Voltage Range	V AC	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	A	25	
	Recommended Wire Size (Indoor - Outdoor)	AWG	14	
Indoor unit	MCA	A	1	
	Fan Motor Full Load Amperage	A	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)	



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

Date: _____

Model number	Indoor unit		PKA-A24KA7	
	Outdoor unit		PUY-A24NHA7 PUY-A24NHA7-BS	
	Package Weight	Lbs.	53	
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	19	
	MOCP	A	26	
	Fan Motor Full Load Amperage	A	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	A	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 temperature range	Cooling Intake Air Temp (Maximum / Minimum)	°F	115 DB / -20* DB	
	Heating Intake Air Temp (Maximum / Minimum)	°F	70 DB, 59 WB / -4 DB, -4 WB	



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

Date: _____

Model number	Indoor unit	PKA-A24KA7	PUY-A24NHA7
	Outdoor unit		PUY-A24NHA7-BS
	Thermal Lock-out / Re-start Temperatures**	°F	-8 / -4 DB
Refrigerant	Type		R410A
	Charge	Lbs, oz	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 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
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<p>Notes</p> <p>*Wind baffles required to operate below 23°F DB in cooling mode. PUY with wind baffle: -20°F - 115°F.</p> <p>**System cuts out in heating mode to avoid thermistor error and automatically restarts at these temperatures</p> <p>SEACOAST PROTECTION</p> <p>External Outer Panel: Phosphate coating + Acrylic-Enamel coating</p> <p>Fan Motor Support: Epoxy resin coating (at edge face)</p> <p>Separator Assembly; Valve Bed: Epoxy resin coating (at edge face)</p> <p>"Blue Fin" treatment is an anti-corrosion treatment that is applied to the condenser coil to protect it against airborne contaminants.</p>
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Notes:



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

Date: _____

PKA-A24KA7	
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
Advanced Blue Diamond Mini-Condensation pump w/ Reservoir & Sensor (110V)	<input type="checkbox"/> X87-711 - 110
Advanced Blue Diamond Mini-Condensation pump w/ Reservoir & Sensor (208/230V)	<input type="checkbox"/> X87-721 - 208/230
Extension Cord for Blue Diamond Pump	<input type="checkbox"/> C13-103
Sauermann Mini-Condensation pump (115V)	<input type="checkbox"/> SI30-115
Sauermann Mini-Condensation pump (230V)	<input type="checkbox"/> SI30-230
MegaBlue Blue Diamond Condensate Pump (110-230V)	<input type="checkbox"/> X87-835
Remote Sensor (extensible)	<input type="checkbox"/> PAC-SE41TS-E
Connector for CN32 (remote ON/OFF)	<input type="checkbox"/> PAC-SE55RA-E
Connector for CN152 (Back up heating)	<input type="checkbox"/> PAC-SE59RA-E
External fan / Heater control relay adapter	<input type="checkbox"/> CN24RELAY-KIT-CM3
Backlit, wall-mounted, wireless	<input type="checkbox"/> MHK1
Wireless Remote Controller	<input type="checkbox"/> MRCH1
Wireless Receiver	<input type="checkbox"/> MFH1
Portable Central Controller	<input type="checkbox"/> MCCH1
Outside Air Sensor	<input type="checkbox"/> MOS1
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-32MAA-J
T-STAT Interface	<input type="checkbox"/> PAC-US444CN-1
Wired remote controller	<input type="checkbox"/> PAR-32MAA
Simple remote controller	<input type="checkbox"/> PAC-YT53CRAU
Wireless Remote Controller	<input type="checkbox"/> PAR-FL32MA-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

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



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

PUY-A24NHA7(-BS)

Date: _____

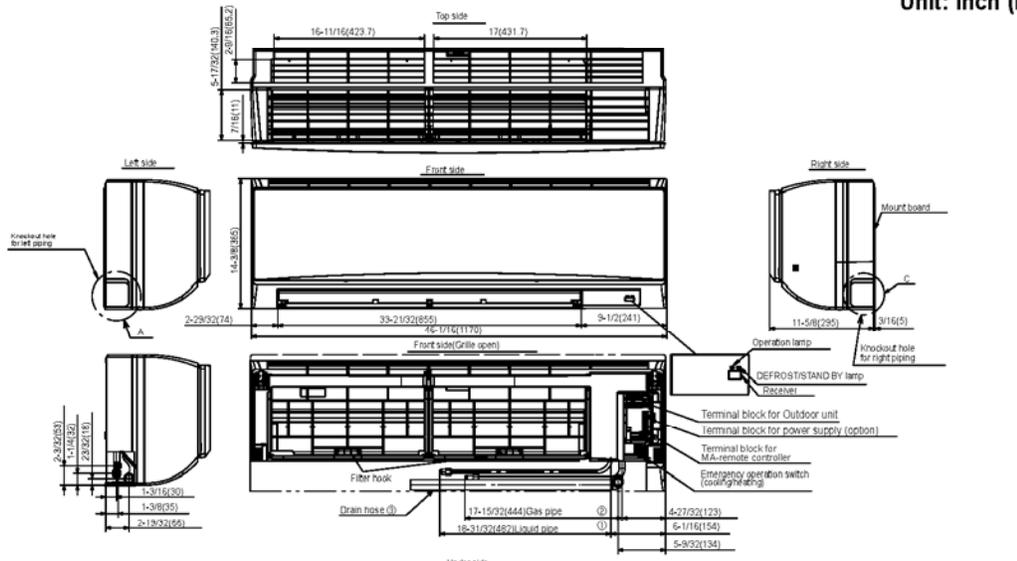
Wall mounting bracket (powder-coated steel)	<input type="checkbox"/> QCWB2000M-1
Wall mounting bracket (316 Series Stainless Steel)	<input type="checkbox"/> QCWBSS
M-NET control adapter for Building Management System	<input type="checkbox"/> PAC-SF83MA-E
Outdoor Unit Mounting Pad 24" x 42" x 3"	<input type="checkbox"/> ULTRILITE2
Outdoor Unit 3-1/4 inch Mounting Base - Pair (Plastic)	<input type="checkbox"/> DSD-400N
MiniSplit Mounting Stand-Single Fan models - 12"	<input type="checkbox"/> QSMS1201M
MiniSplit Mounting Stand-Single Fan models - 18"	<input type="checkbox"/> QSMS1801M
MiniSplit Mounting Stand-Single Fan models - 24"	<input type="checkbox"/> QSMS2401M
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: PKA-A24KA7 & PUY-A24NHA7 (-BS)

PKA-A24KA7

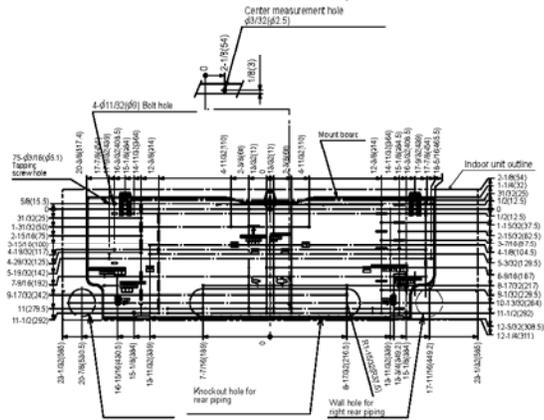
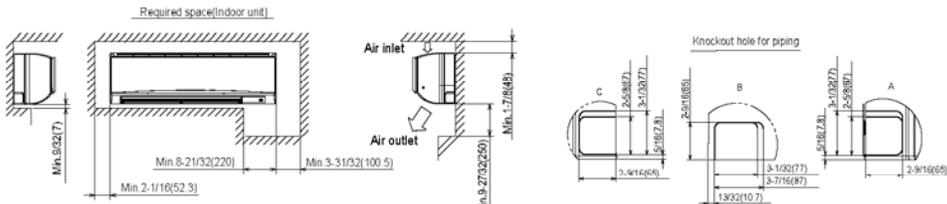
Date: _____

Unit: inch (mm)



Sleeve (purchased locally)	Through hole
φ2-15/16 (φ75)	φ2-15/16-φ3-5/32 (φ75-φ80)

Piping connection	
① Liquid pipe	Refrigerant pipe: 3/8 O.D.(φ9.52) Flared connection: 3/8F
② Gas pipe	Refrigerant pipe: 5/8 O.D.(φ15.88) Flared connection: 5/8F
③ Drain hose	5/8(φ16) O.D. Effective length: 23-1/32 (585)



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

Schedule Reference: IU UNITS

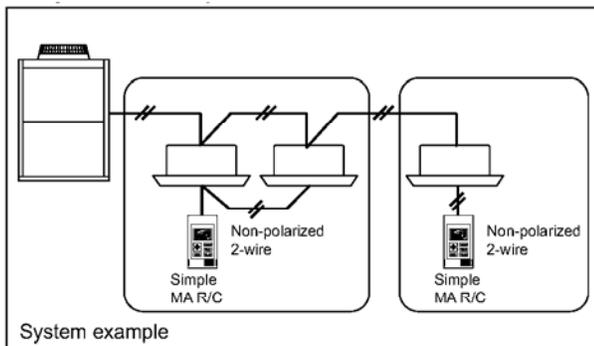
Date: 9-21-17

Date: _____



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).



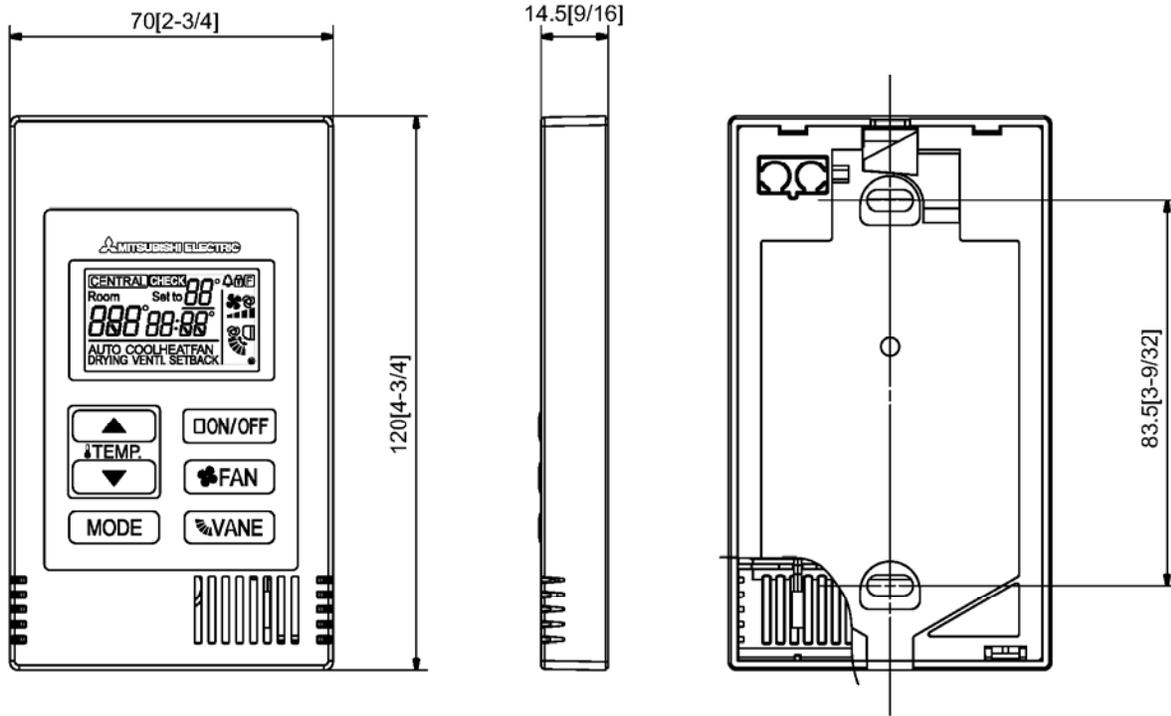
Notes:

Model: PAC-YT53CRAU – DIMENSIONS



Reviewed for Code Compliance
Inspections Division
Approved with Conditions

U Date: _____



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

System Reference: Centralized Controller

Date: _____

Date: _____



EW-50A

- EW-50A can be a Master Controller or Expansion Controller
- Master Controller can operate and monitor up to 50 indoor units.
- 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 for 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 amounts 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 AI 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:
 - On/Off
 - 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:
 - Auto* (Dual or Single set point)
 - 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
 - AI 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.



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Inspections Division
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EW-50A Expansion Controller

Item	Specifications	
Power Supply	Rated input	100–240 VAC ± 10%; 50/60 Hz Single
M-NET power feeding coefficient		1.5
Ambient conditions	Temperature	Operating Range
		Non-operating Range
	Humidity	
		-10°C – +55°C (+14°F – +131°F) -20°C – +60°C (-4°F – +140°F) 30-90% RH (No condensation)
Weight		1.7 kg (4 lbs)
Dimensions (W x H x D)		172 × 209 × 92 mm (6-13/16 × 8-4/16 × 3-10/16 in) **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 Resolution	1366 x 768 or higher recommended
Compatible Browser	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.
Onboard LAN Port or LAN Card	100 BASE-TX
100 BASE-TX	e.g., mouse

Notes:

Models: EW-50A - System Configuration



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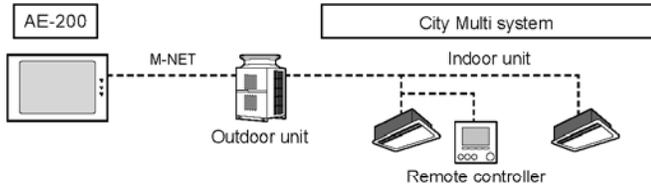
*AE-200A is indicated as AE-200

*AE-50A is indicated as AE-50

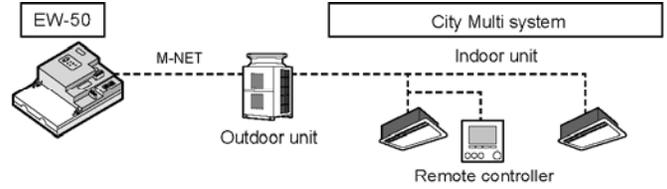
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Controlling 50 or fewer units of equipment

1. AE-200



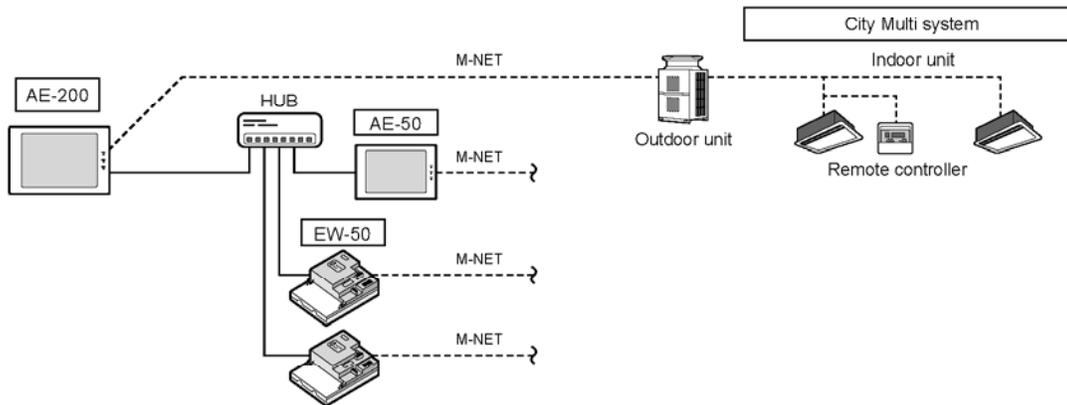
2. EW-50



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

Note

AE-200 is required when using AE-50.

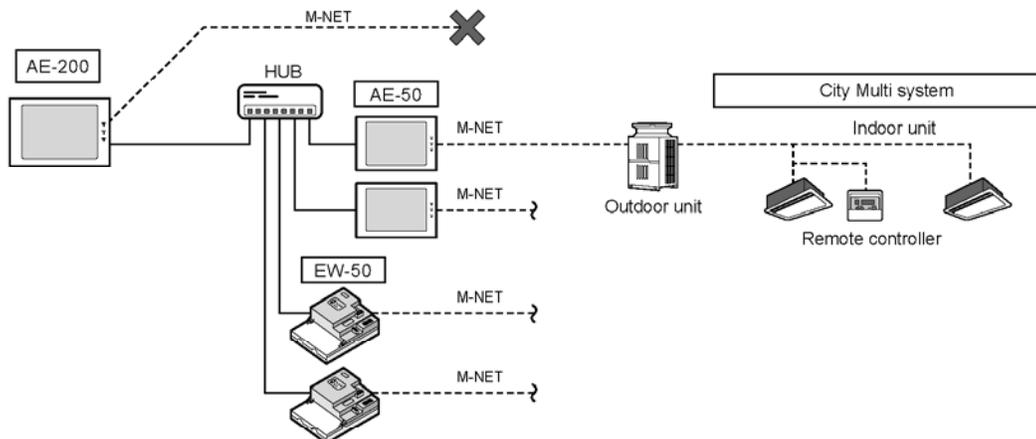


When using an apportioned electricity billing function

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

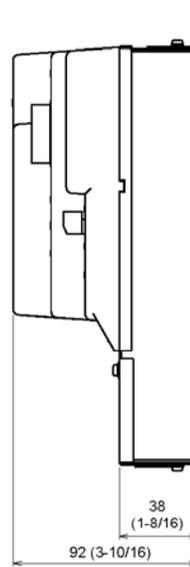
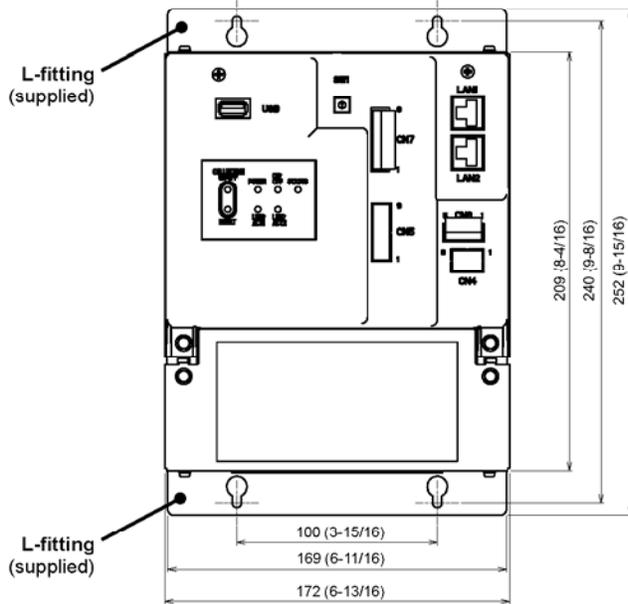


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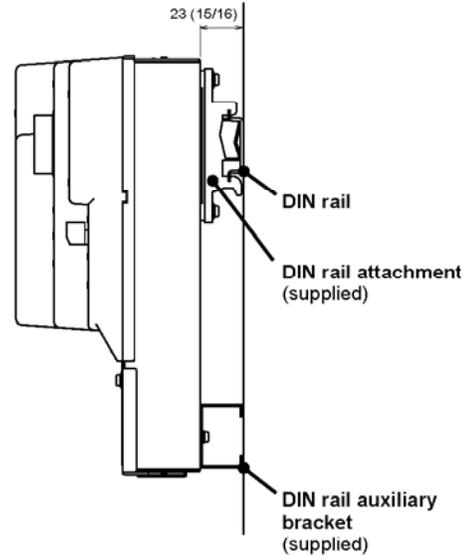
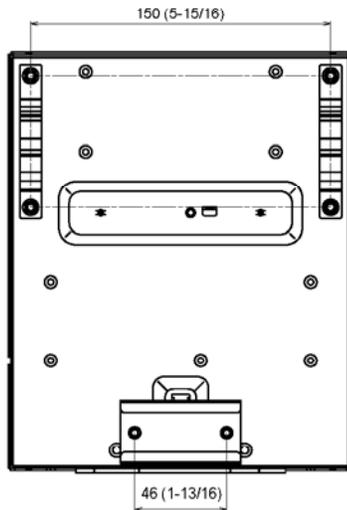
(1) When using L-fittings

Unit: mm (in)

Date: _____



(2) When using DIN rail



COOLING & HEATING

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

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



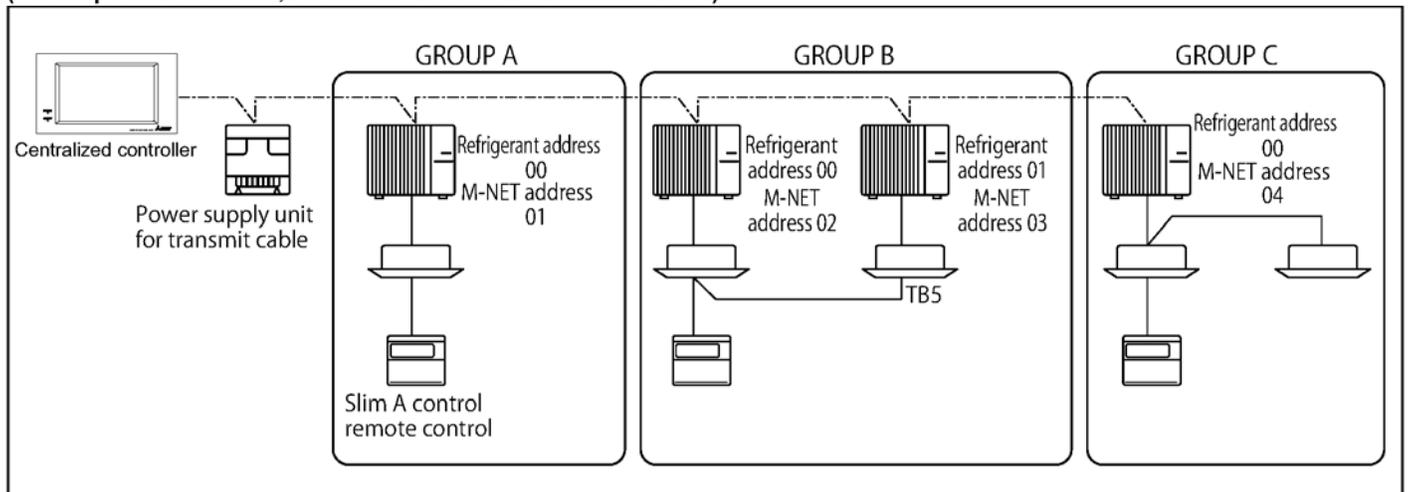
P-SERIES M-NET CONTROL ADAPTER (PAC-SF83MA-E) SPECIFICATIONS

- 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

(For complete list of models, see the PAC-SF83MA-E Installation Manual.)





Reviewed for Code Compliance
Inspections Division
Approved with Conditions

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

System Reference:

Date:

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.

Item	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)	



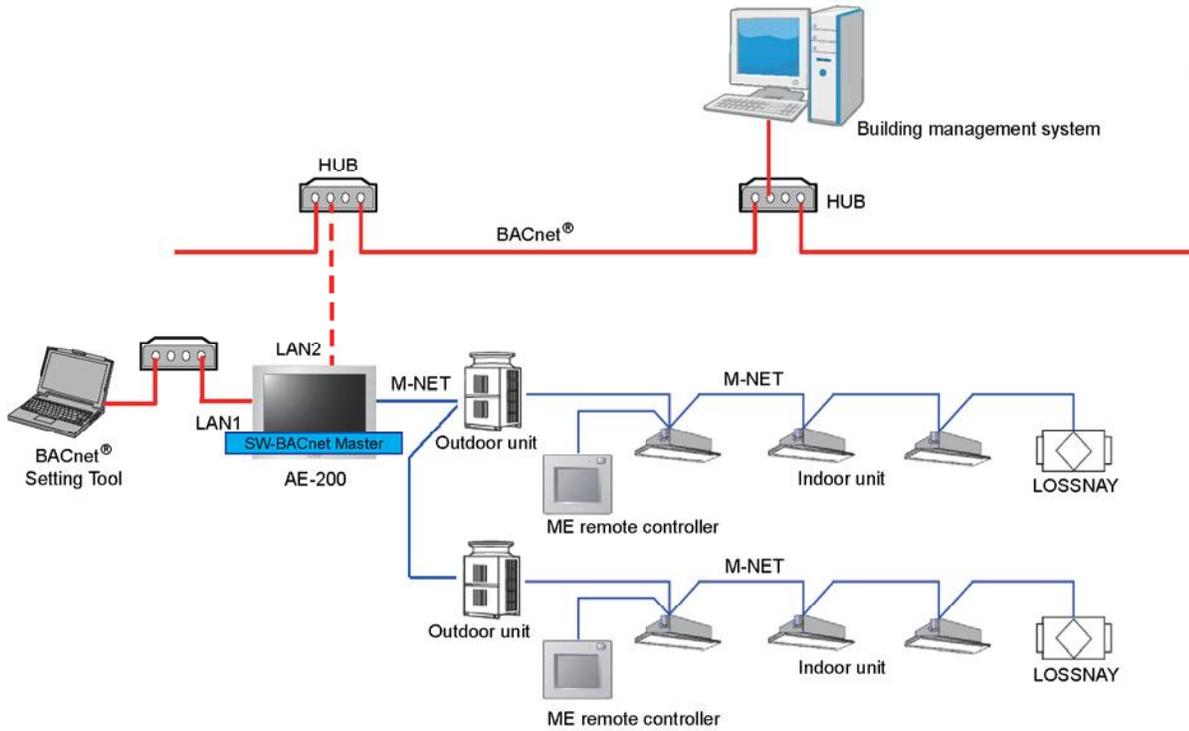
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Model: SW-BACnet - System Example



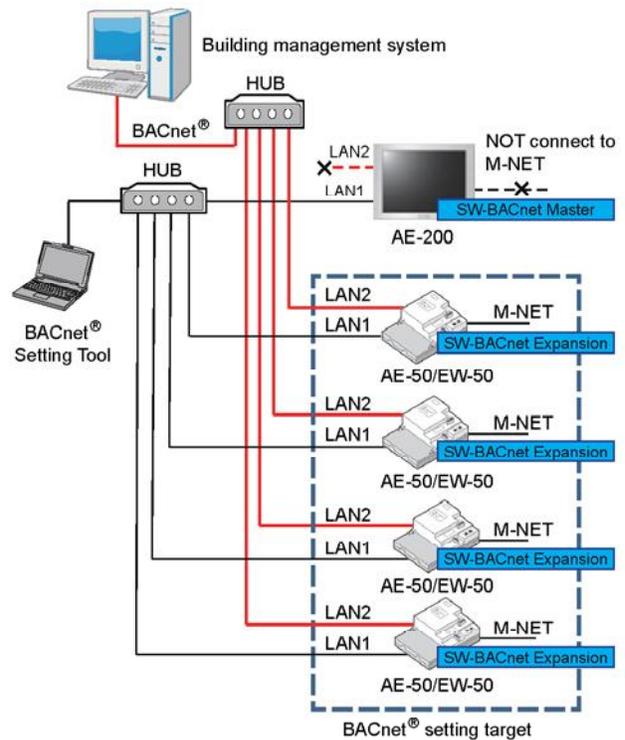
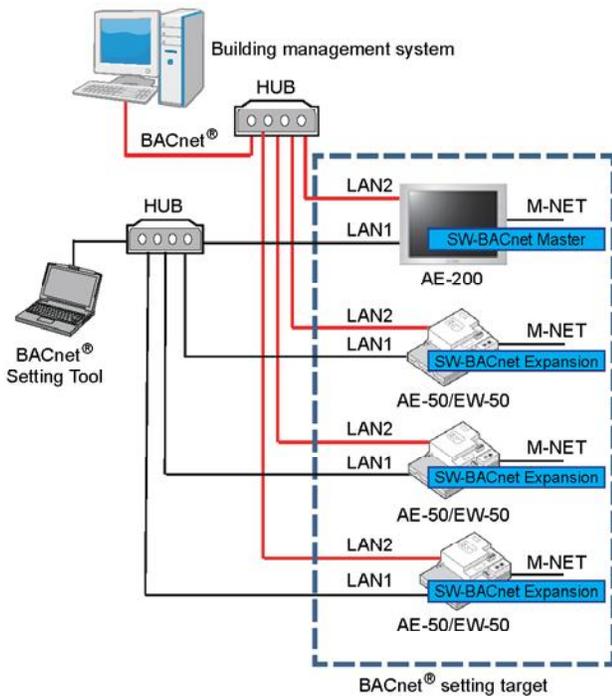
Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: _____



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

(B) When using an apportioned electricity billing function



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



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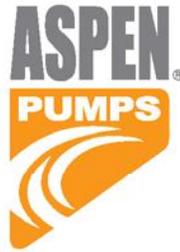
Date: _____

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
Fan Speed Setup
Fan 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 Reset]
Prohibition Set Temperature
M-NET Communication State
System Forced Off
Air Direction Setup
Air Direction State
Set High Limit Setback Temp
Set Low Limit Setback Temp
Ventilation Mode Setup
Ventilation Mode State
Air To Water Mode Setup
Air To Water Mode State
System Alarm Signal (4-digit error code)
PI Controller Alarm Signal (4-digit error code)
Group Apportioned Electric Energy
Interlocked Units Apportioned Electric Energy
PI controller Electric Energy 1-4
Pulse Input Electric Energy 1-4
Group Apportionment Parameter
Interlocked Units Apportionment Parameter
Night Purge State
Thermo On Off State
Trend Log Room Temp
Trend Log Group Apportioned Electric Energy
Trend Log Interlocked Units Apportioned Electric Energy
Trend Log PI controller Electric Energy 1-4
Trend Log Pulse Input Electric Energy 1-4
Trend Log Group Apportionment Parameter
Trend Log Interlocked Units Apportionment Parameter



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

Submittal 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/aspenspump.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

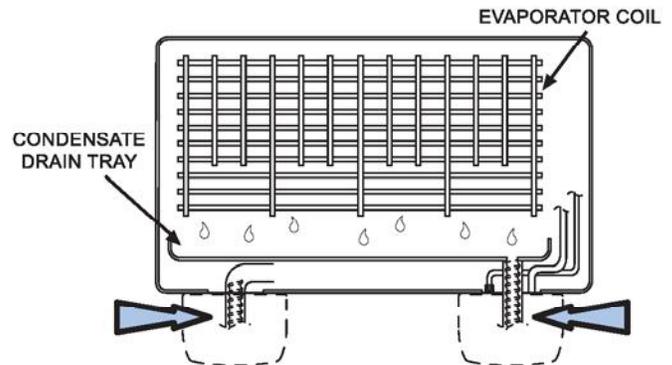
(Sec. III) Carton Contents:

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

713.263.8001 - 800.231.3345 713.263.7577 - 800.441.0051

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

DESIGNED FOR P-SERIES AND PUMY OUTDOOR UNITS ONLY



Reviewed for Code Compliance
Inspections Division
Approved with Conditions

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

System Reference: OU-1,2,3

Date: _____



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
Exterior	Color	Matches P-Series Outdoor Unit		
	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

Date: _____

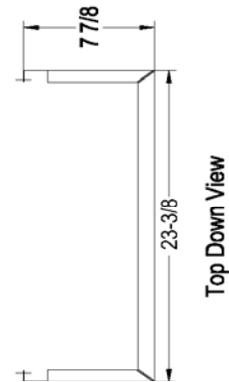
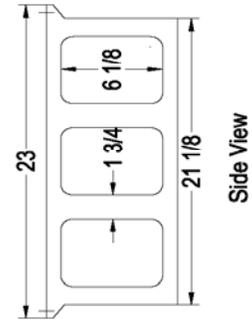
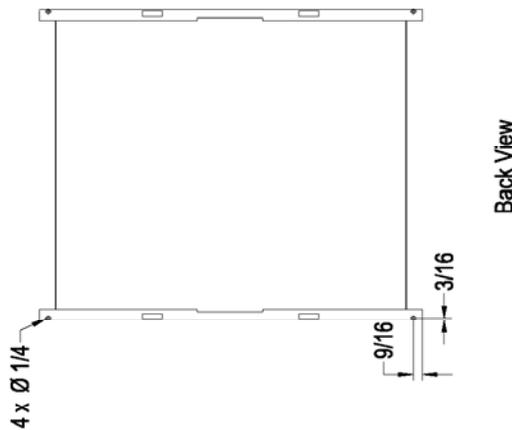
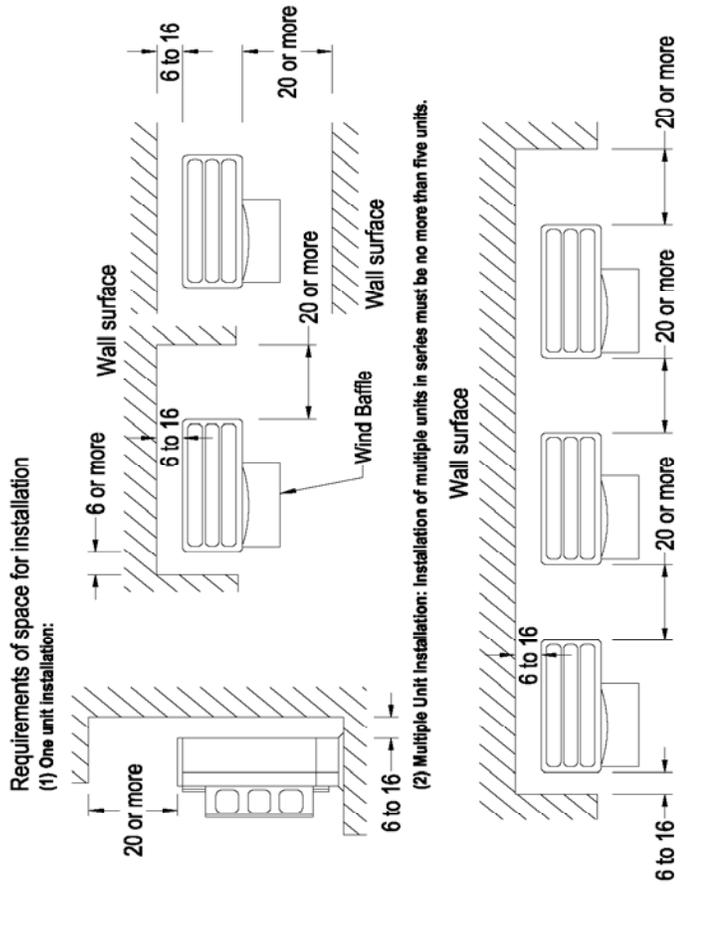
UNIT MODEL	Type and Quantity		
	WB-PA3	WB-PA4	WB-PA5
PUY/Z-A24NHA4			1
PUY/Z-A30NHA4			1
PUY/Z-A36NHA4			1
PUY/Z-A42NHA4			2
PUY/Z-A42NHA5			2
PUZ-HA30NHA4			2
PUZ-HA36NHA4			2
PUZ-HA30NHA5			2
PUZ-HA36NHA5			2
PUZ-HA42NKA	2		
PUMY-P36NHMU			2
PUMY-P36NKMU1	2		
PUMY-P48NHMU			2
PUMY-P48NKMU1	2		
PUMY-P60NKMU1	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-PA5



Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: _____



ALL DIMENSIONS IN INCHES
ALL DIMENSION $\pm \frac{1}{32}$ "

Manufactured for MITSUBISHI ELECTRIC US, INC.

1340 Satellite Boulevard, Suwanee, GA 30024

Toll Free: 800-433-4822 www.mehvac.com

ADVANCED WIND BAFFLE WB-SD / WB-RE

DESIGNED FOR P-SERIES PUY-7 OUTDOOR UNITS ONLY



Reviewed for Code Compliance
Inspections Division
Approved with Conditions

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

System Reference: OU-1,2

Date: _____



Date: _____

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

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

		WB-SD6	WB-RE6
Exterior	Color	Matches P-Series Outdoor Unit	
	Surface Treatment	Acrylic Resin Coating	
	Material	Alloy Hot-Dip Zinc Coated Carbon Steel Sheet	
Weight		15	35



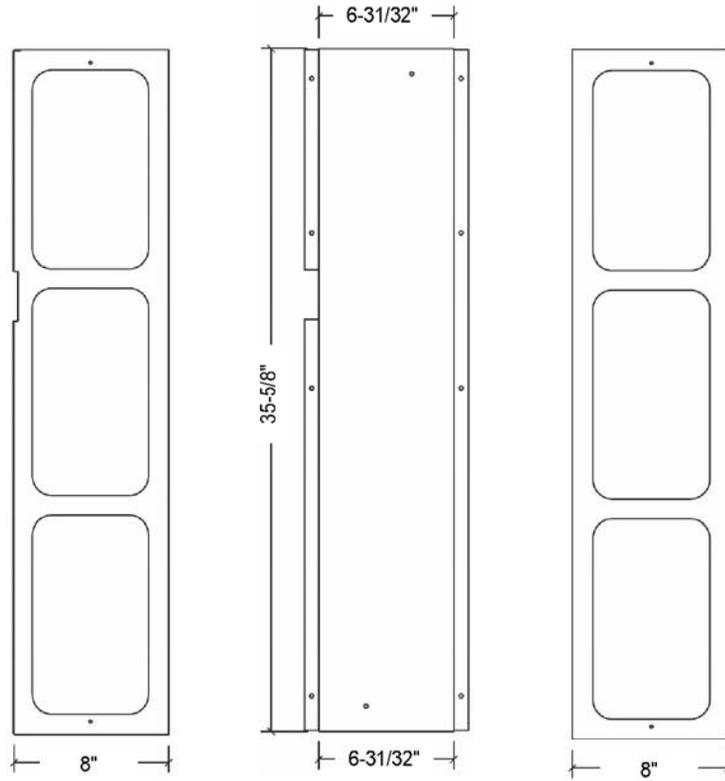
Reviewed for Code Compliance
Inspections Division
Approved with Conditions

DIMENSIONS: WB-SD5 and WB-RE5

WB-SD5

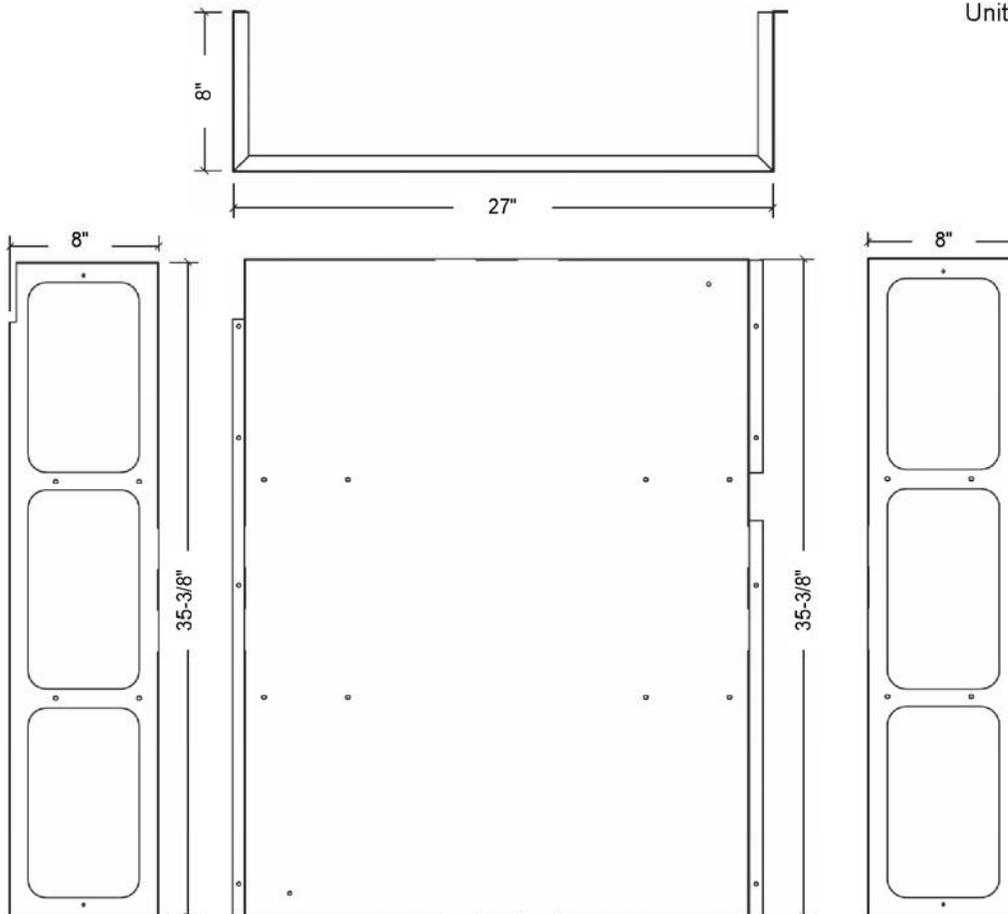
Unit: inch

Date: _____



WB-RE5

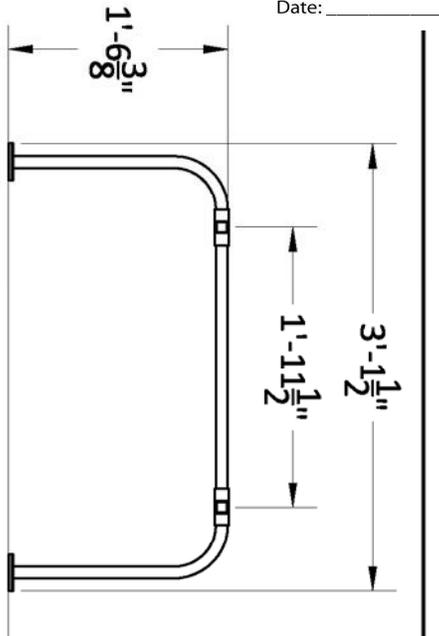
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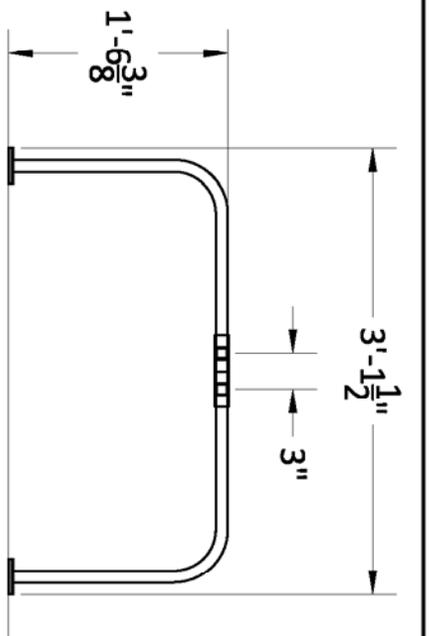


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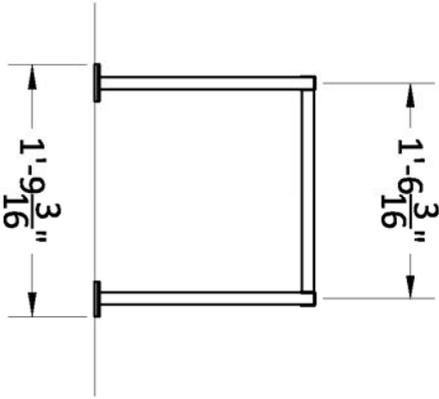
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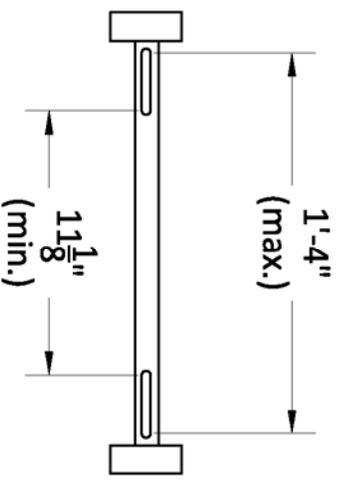
Side View - Expanded



Side View - Retracted



End View - Fixed



**Spacer Bar Detail
(Showing Range of Bolt Spacing)**



ASSEMBLY DRAWING
"MINI-SPLIT 18"
FIXED STAND - WIDE
MODEL NO. QSMS1801

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

Quick Sling, LLC
391 W. Water Street
Taunton, MA 02780
1-(800)-699-0543

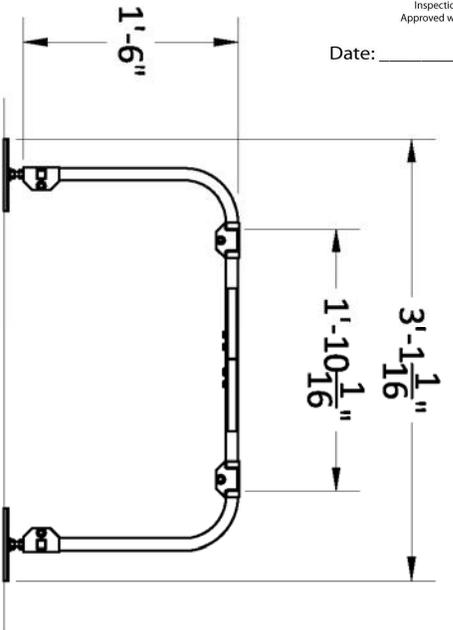


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Inspections Division
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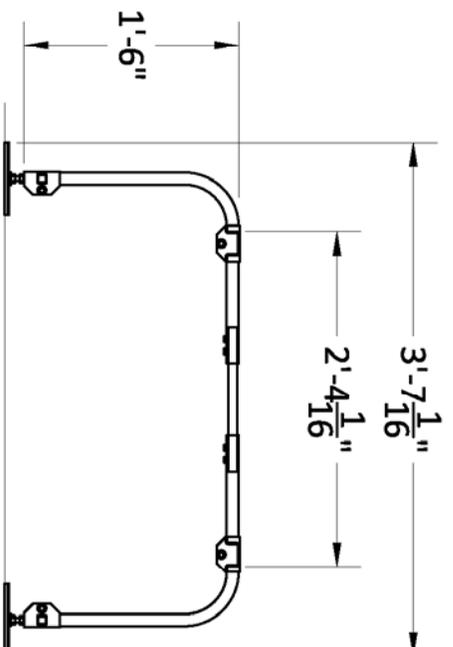
Date: _____

h Hall 3rd Floor Renovations University of Southern Maine OU-1,2

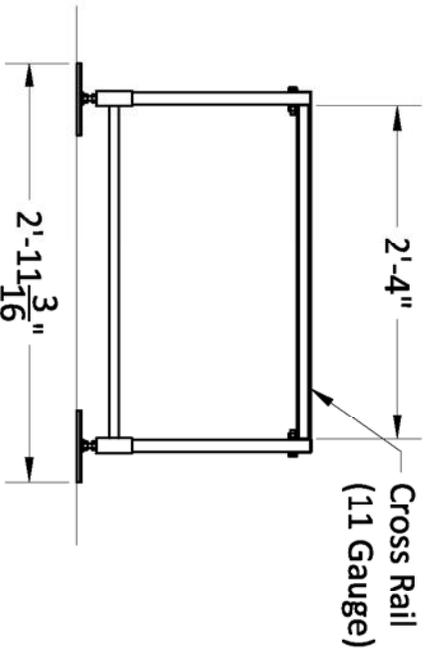
9-21-17



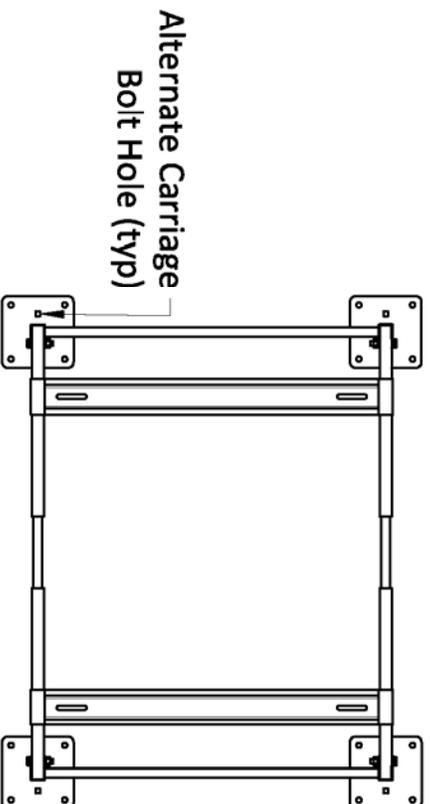
Side View - Retracted



Side View - Expanded



End View - Fixed



Plan View - Expanded



ASSEMBLY DRAWING
"MINI-SPLIT 18"
ADJUSTABLE STAND - WIDE
MODEL NO. QSMS1802

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

Quick Sling, LLC
391 W. Water Street
Taunton, MA 02780
1-(800)-699-0543

MITSUBISHI CITY MULTI VRF OUTDOOR UNIT SCHEDULE

System Tag	Tag Reference	M-Net Address	Model Number	Modules	Nominal Cooling Capacity (BTU/h)	Nominal Heating Capacity (BTU/h)	Design Cooling Outdoor Temp DB (°F)	Design Heating Outdoor Temp WB (°F)	Corrected Cooling Capacity (BTU/h)	Corrected Heating Capacity (BTU/h)	Voltage / Phase	Electrical Per Module			Notes / Options
												MCA 208/230 or 460V	208/230 or 460V	MOCP	
System 1	OU-1	51	P36NKMU1	P36	95,300.0	42,000.0	87.0	-6.5	26,034.7	21,723.6	208-230V/1-Phase	31	4C	44	1, 2, 3, 4, 5
System 2	OU-2	55	P36NKMU1	P36	95,300.0	42,000.0	87.0	-6.5	28,037.3	21,720.8	208-230V/1-Phase	31	4C	44	1, 2, 3, 4, 5
OU-3		β		PUY-A24NH47	24,300.0	00.0	87.0	-6.5	23,932.7	00.0	208/230V/1-Phase	N/A	N/A	N/A	1, 2, 3, 4, 5

Notes & Options:

- 1 Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB)
- 2 Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)
- 3 Efficiency values for EER, IEER, COP are based on AHRI 1230 test method for mixture of ducted & non-ducted indoor units.
- 4 For systems with multiple modules, refrigerant pipe 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.



Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: _____



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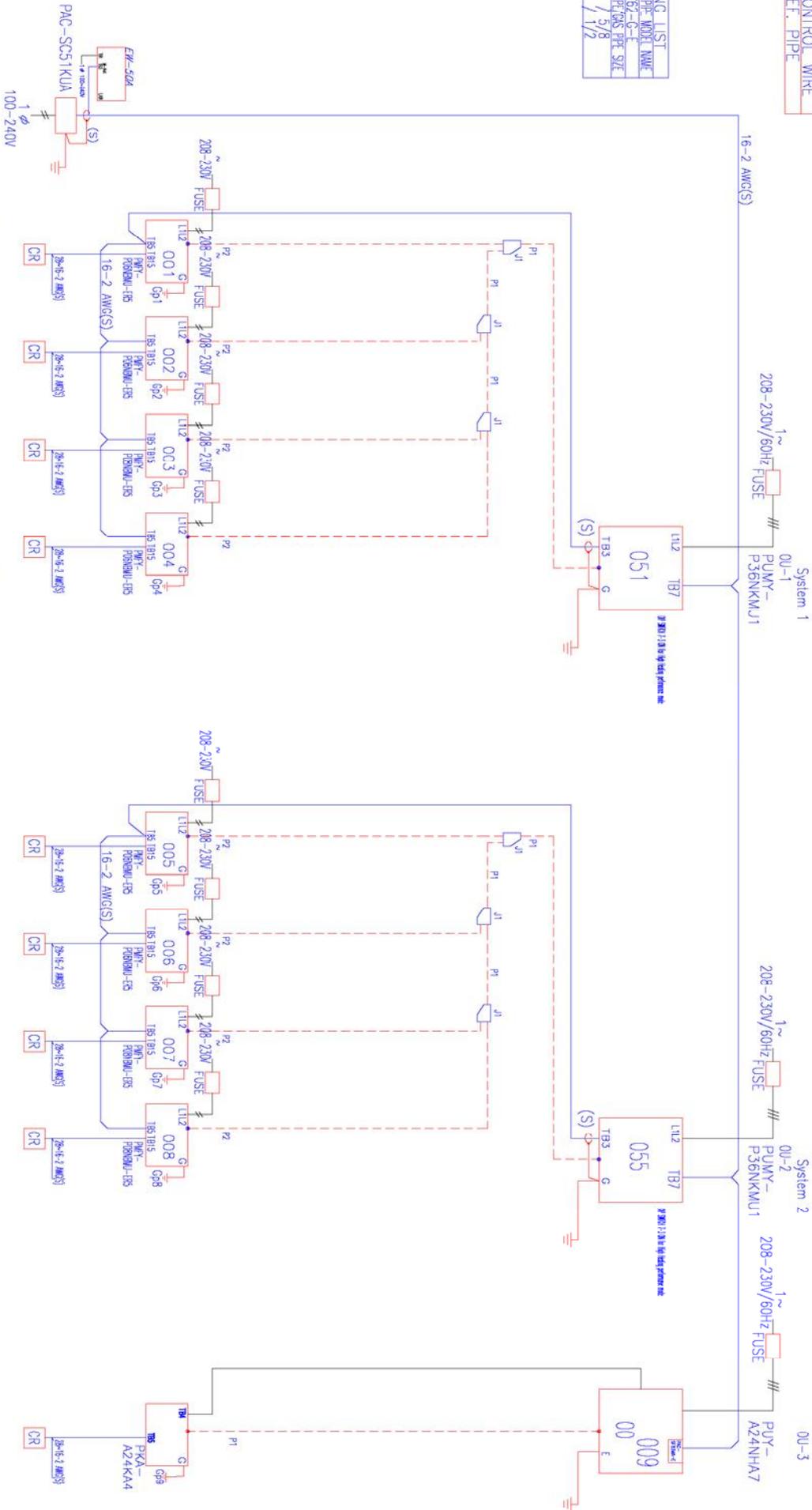
CONTROL WIRE
REF. PIPE

1h Hall 3rd Floor Renovations

CITY MULTI
SYSTEM SCHEMATIC DWG.

Additional refrigerant charge is needed depending on the size and length of extended piping. Please refer the amount of pre-charge and the formula of calculation which is mentioned on the data book.
1.2ozmt (6 AWG) ; 1.2ozmt(6 AWG) or more. 0.7ozmt(20 AWG) ; between 0.5ozmt(24 AWG) and 0.7ozmt(20 AWG).

PIPING LIST
SYMBOL BRANCH PIPE MODEL NAME
U1 CMT-62-G-E
SYMBOL 10000 PIPE CODES PIPE SIZE
P1 3/8 5/8
P2 1/4 1/2



REMARKS
Originator: Nick St. Ours
Comments:



3.2.1.25
Mitsubishi Electric
Dimension System Builder