PAA-BA42NL & PUY-AK42NL
42,000 BTU/H CASED COIL INDOOR UNIT
42,000 BTU/H COOLING ONLY OUTDOOR UNIT

Job Name:			
System Reference:		**Date:**	

INDOOR Unit ... PAA-BA42NL

OUTDOOR Unit ... PUY-AK42NL

INDOOR UNIT FEATURES

- Wi-Fi Optional: A Wireless Interface Adapter can be ordered as an accessory for field installation.
- Intelligent Switchover: Intelligent Switchover from electric heat pump to gas furnace operation in extreme cold for consistent comfort. The system can also be set to switch based optimal energy efficiency and to reduce your carbon footprint.
- High Quality Drain Pan: High quality drain pan material with high heat tolerance and low moisture absorption
- Multi-Position Installation: Versatile installation options, including horizontal (left or right) and vertical (up or down) orientations, with included drain pans to facilitate easy setup for any configuration.
- Available Widths: Available in 14.5”, 17.5”, and 21” widths
- Furnace Compatible: "Compatible with most gas furnaces, intelli-HEAT® allows for Intelligent Switchover between the furnace and heat pump operation. * *Mitsubishi Electric air-conditioner and heat pump systems should only be connected with ANSI-Z21.47/CSA2.3 certified furnaces"

OUTDOOR UNIT FEATURES

- Inverter Driven Compressor: Inverter technology uses only the precise amount of energy needed to keep a space comfortable.
- Blue Fin Coating: Anti-corrosion coating that protects the outdoor heat exchanger against salt, sulfur, and other airborne contaminants that impact the efficiency and performance of the outdoor units.
- Seacoast Protection: An anti-corrosion treatment applied to the aluminum fins of the heat exchanger of the outdoor unit to protect against corrosion caused by salt, sulfur, and other airborne contaminants, especially in coastal and industrial areas.
- Low Ambient Cooling: Low ambient cooling down to -40°F providing 100% capacity with front, side and rear wind baffle kit
- Low Ambient Cooling: Low ambient cooling down to 0°F providing 100% capacity with front wind baffle kit

© 2026 Mitsubishi Electric Trane HVAC US LLC. All rights reserved.

SPECIFICATIONS: PAA-BA42NL & PUY-AK42NL

Cooling at 95F[1]	Maximum Capacity	Btu/h	43000
	Rated Capacity	Btu/h	42000
	Minimum Capacity	Btu/h	15400
	Rated Power Input	W	4040
	Moisture Removal	Pints/h	11.10
	Sensible Heat Factor		0.72
Efficiency	SEER2		17.10
	EER2[1]		10.30
	ENERGY STAR® Certified		No
Electrical	Voltage, Phase, Frequency	V AC / V AC , ø , Hz	208 / 230 , 1 , 60
	Guaranteed Voltage Range	V AC	198 - 253
	Voltage: Indoor - Outdoor, S1-S2	V AC	208/230
	Voltage: Indoor - Outdoor, S2-S3	V DC	12-24
	Short-circuit Current Rating [SCCR]	kA	5
	Recommended Fuse/Breaker Size (Outdoor)	A	35
	Recommended Wire Size [Indoor - Outdoor]	AWG	14
Indoor Unit	MCA	A	0.2
	Breaker Size	A	15
	Rated Airflow, Dry	CFM	1225
	Maximum Airflow, Dry	CFM	1660
	Minimum Airflow, Dry	CFM	936
	Internal Static Pressure [at Rated CFM]	in.WG	0.3
	Drain Pipe Size O.D.	inch [mm]	3/4 [19.05]
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	17-1/2 x 21-3/8 x 32 [445 x 543 x 812]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	19-5/16 x 25-5/16 x 37-8/16 [491 x 695 x 953]
	Unit Weight [Cased Coil Only]	lbs [kg]	72.8 [33.0]
	Control Box Weight	lbs [kg]	5.1 [2.3]
	Package Weight	lbs [kg]	97.0 [44]
IDU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum]	°FDB , °FWB / °FDB , °FWB	90 , 73 / 66 , 59
Outdoor Unit	MCA	A	34
	MOCP	A	56
	Fan Motor Output	W	74+74
	Airflow Rate Cooling	CFM	3910
	Coating on Heat Exchanger (Bluefin, Sea Coast)		Yes , Yes
	Sound Pressure Level, Cooling[1]	dB (A)	52
	Compressor Type		Twin Rotary
	Compressor Model		MRB36FEGMC
	Compressor Oil [Type // Charge]	// oz	RM68EH // 45
	External Finish Color		Munsell 3Y 7.8/1.1
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	41-11/32 x 14 x 52-43/64 [1050 x 355 x 1338]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	42-15/16 x 17-3/4 x 58-5/16 [1090 x 450 x 1480]
	Unit Weight	lbs [kg]	224 [102]
	Package Weight	lbs [kg]	251 [114]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 23
	Cooling Thermal Lock-out / Re-start Temperatures**	°FDB	N/A / N/A
Refrigerant	Type		R454B
	Pre-Charged Refrigerant Amount	lbs , oz	9 , 14
	Maximum Pre-Charged Piping Length	ft [m]	100 [30]
	Additional Refrigerant Charge Per Additional Piping Length	oz/ft	0.6
Piping	Liquid Pipe Size O.D. [Flared]	inch [mm]	3/8 [9.52]
	Gas Pipe Size O.D. [Flared]	inch [mm]	5/8 [15.88]
	Maximum Piping Length	ft [m]	100 [30]
	Maximum Height Difference	ft [m]	100 [30]
	Maximum Number of Bends		15

Notes

[1]Cooling at 95°F (Indoor // Outdoor) °F 80 DB, 67 WB // 95 DB, 75 WB
*Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]): • Wind baffles required to operate below 23°F DB in cooling mode. • Cooling-only system with advanced wind baffle: -40°F - 115°F. • Refer to wind baffle documentation for further information.
[3]Nominal capacity only. Actual capacity output varies based on the system specific configuration
**Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures):

© 2026 Mitsubishi Electric Trane HVAC US LLC. All rights reserved.

INDOOR UNIT ACCESSORIES: PAA-BA42NL

Condensate	Blue Diamond MaxiBlue Advanced Mini Condensate Pump w Reservoir Sensor 110V up to 48000 BTUH recommended	☐ X87-711
	Sauermann Condensate Pump 120-230V up to 60k BTU/h	☐ SI30-230
	Blue Diamond MaxiBlue Condensate Pump with Reservoir Sensor 115-230V up to 48k BTU/h	☐ X88-721
	Refco Condensate Pump 100-240V up to 120k BTU/h	☐ COMBI
	Blue Diamond MegaBlue Condensate Pump with Reservoir Sensor 115-230V up to 170k BTU/h	☐ X87-835
	Blue Diamond Sensor Extension Cable 15 Ft	☐ C13-103
Control Interface	Wireless Interface 2 for Comfrot app	☐ PAC-USWHS002-WF-2
	Procon BACnet® and Modbus® Interface	☐ PAC-UKPRC001-CN-1
	Thermostat Interface	☐ PAC-US446CN-1
	IT Extender	☐ PAC-WHS01IE-E
	kumo station® for Comfort app	☐ PAC-WHS01HC-E
	Operation and Error Status Output Adapter ¹	☐ PAC-SF40RM-E
Disconnect Switch	30A600VUL fits 2 X 4 utility box - Black	☐ TAZ-MS303
	30A600VUL fits 2 X 4 utility box - White	☐ TAZ-MS303W
Lineset	3/8 x 5/8 Lineset Twin-Tube Insulation - 30 feet	☐ MPLS385812T-30
	3/8 x 5/8 Lineset Twin-Tube Insulation - 15 feet	☐ MPLS385812T-15
	3/8 x 5/8 Lineset Twin-Tube Insulation - 65 feet	☐ MPLS385812T-65
	3/8 x 5/8 Lineset Twin-Tube Insulation - 10 feet	☐ MPLS385812T-10
	3/8 x 5/8 Lineset Twin-Tube Insulation - 50 feet	☐ MPLS385812T-50
	3/8 x 5/8 Lineset Twin-Tube Insulation - 100 feet	☐ MPLS385812T-100
Remote Sensor	Wireless temperature and humidity sensor for Comfort app	☐ PAC-USWHS003-TH-1
	Flush Mount Remote Temperature Sensor for SEZ SLZ SVZ and all P-Series models	☐ PAC-USSEN002-FM-1
	Wall Mount Remote Temperature Sensor	☐ PAC-SE41TS-E
Terminal Signal Adapter	ERV On/Off Input Adapter for CNER on SVZ PEAD and PVA models	☐ PAC-740
	Connector and wire for On/Off and Error status using CN51 and CN52	☐ PAC-725AD
	Connector and wire for On/Off and Fan command using CN32	☐ PAC-715AD
	Backup Heat Relay Kit	☐ CN24RELAY-KIT-CM3
Wired Remote Controller	Simple Direct Wired Remote Controller	☐ PAC-SDW01RC-1
	Deluxe Wired MA Remote Controller	☐ PAR-42MAAUB
	Simple MA Remote Controller	☐ PAC-YT53CRAU-J
	Touch MA Remote Controller	☐ PAR-CT01MAU-SB
Wireless Remote Controller	Wireless Remote Contoller	☐ PAR-SL101A-E
	Wireless RedLINK™ Remote Controller	☐ MHK2
	Universal Wireless Receiver for PAR-FL32MA-E	☐ PAR-FA32MA-W
	Universal Wireless Receiver for PAR-FL32MA-E	☐ PAR-FA32MA-E
	Lockdown Bracket for Wireless Handheld Remote Controllers	☐ RCMKP1CB

Notes

[1]Unable to use with Wireless Handheld Remote Controller
[1]Requires MAC-334IF-E Interface to connect MA controller

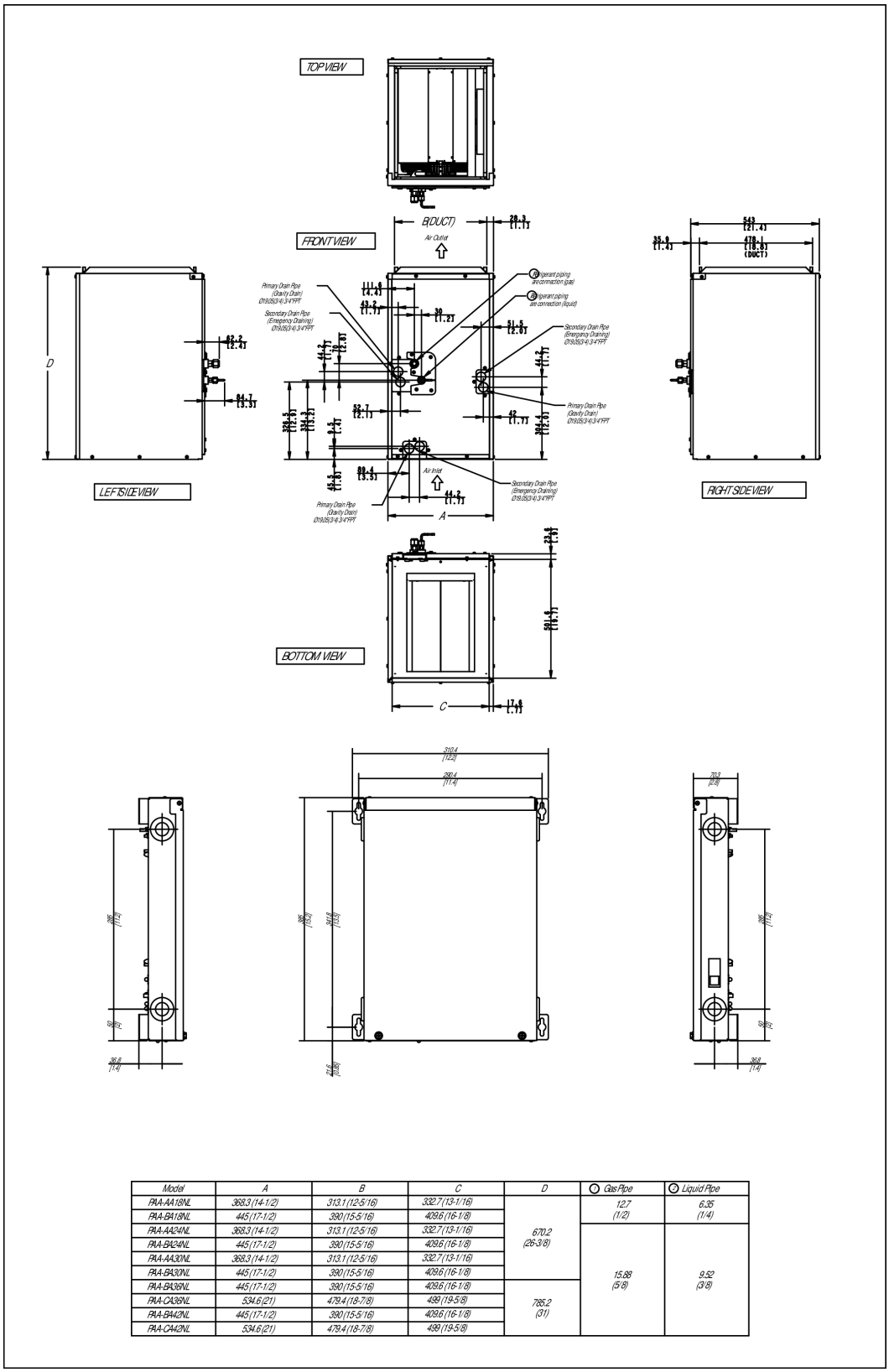
© 2026 Mitsubishi Electric Trane HVAC US LLC. All rights reserved.

OUTDOOR UNIT ACCESSORIES: PUY-AK42NL

Air Outlet Guide	Air Outlet Guide 1 Piece	☐	PAC-SH96SG-E (two pieces required)
Control/Service Tool	Maintenance Tool Interface	☐	PAC-USCMS-MN-1
	ControlService Tool	☐	PAC-SK52ST
	M- & P-Series Maintenance Tool Cable Set	☐	M21EC0397
Drain Socket	Drain Socket	☐	PAC-SG61DS-E
Hail Guards	Hail Guard	☐	HG-A2
M-NET Converter	M-Net Interface for P-Series	☐	PAC-SJ95MA-E
Mini-Split Wire	14 Gauge 4 wire MiniSplit Cable50 ft roll	☐	S144-50
	14 Gauge 4 wire Armored MiniSplit Cable50 ft roll	☐	SW144-50
	14 Gauge 4 wire MiniSplit Cable250 ft roll	☐	S144-250
	14 Gauge 4 wire Armored MiniSplit Cable250 ft roll	☐	SW144-250
Mounting Pad	Condensing Unit Mounting Pad 24 x 42 x 3	☐	ULTRILITE2
Snow/Rain Diverter	SnowRain Diverter	☐	SRD-5
Stand	Outdoor Unit 3-14 inch Mounting Base Pair - Plastic	☐	DSD-400P
	18 Dual Fan Stand	☐	QSMS1802M
	24 Dual Fan Stand	☐	QSMS2402M
	Outdoor Unit Stand 12 High	☐	QSMS1202M
Terminal Signal Adapter	Connector and wire for On/Off and Fan command using CN32	☐	PAC-715AD
	Connector and wire for On/Off and Error status using CN51 and CN52	☐	PAC-725AD
Wind Baffle	Rear Wind Baffle	☐	WB-RE6
	Side Advanced Wind Baffle	☐	WB-SD6
	Front Wind Baffle	☐	WB-PA3 (two pieces required)
Notes			

© 2026 Mitsubishi Electric Trane HVAC US LLC. All rights reserved.

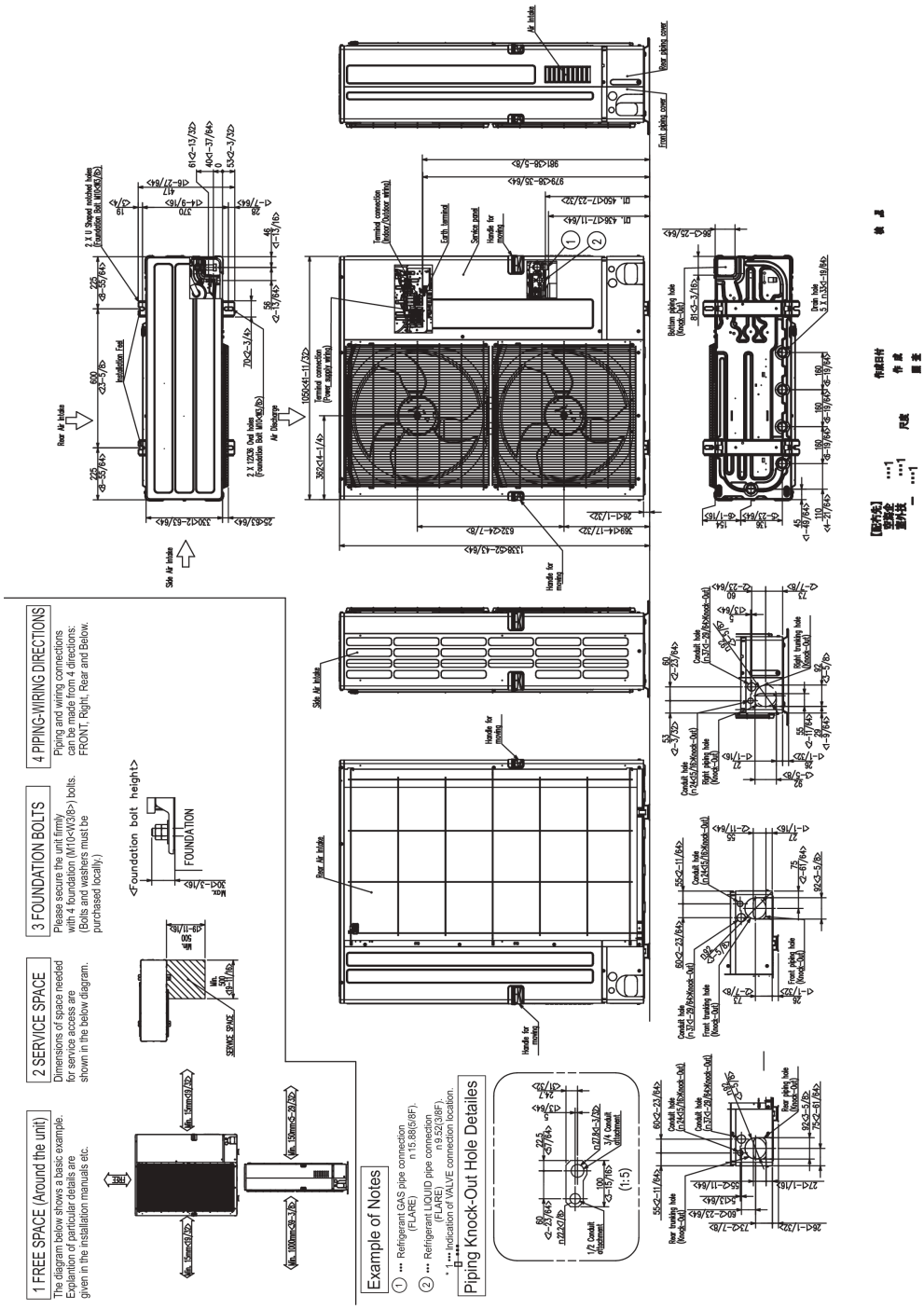
INDOOR UNIT DIMENSIONS: PAA-BA42NL



Model	A	B	C	D	Ⓐ Gas Pipe	Ⓑ Liquid Pipe
PAA-AA18NL	368.3 (14-1/2)	313.1 (12-5/16)	332.7 (13-1/16)	670.2 (26-3/8)	12.7 (1/2)	6.35 (1/4)
PAA-BA18NL	445 (17-1/2)	390 (15-5/16)	409.6 (16-1/8)			
PAA-AA24NL	368.3 (14-1/2)	313.1 (12-5/16)	332.7 (13-1/16)		15.88 (5/8)	9.52 (3/8)
PAA-BA24NL	445 (17-1/2)	390 (15-5/16)	409.6 (16-1/8)			
PAA-AA30NL	368.3 (14-1/2)	313.1 (12-5/16)	332.7 (13-1/16)			
PAA-BA30NL	445 (17-1/2)	390 (15-5/16)	409.6 (16-1/8)			
PAA-BA36NL	445 (17-1/2)	390 (15-5/16)	409.6 (16-1/8)	785.2 (31)		
PAA-CA36NL	534.6 (21)	479.4 (18-7/8)	499 (19-5/8)			
PAA-BA42NL	445 (17-1/2)	390 (15-5/16)	409.6 (16-1/8)			
PAA-CA42NL	534.6 (21)	479.4 (18-7/8)	499 (19-5/8)			

© 2026 Mitsubishi Electric Trane HVAC US LLC. All rights reserved.

OUTDOOR UNIT DIMENSIONS: PUY-AK42NL



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

METUS_2026-09_PROPIN

AHRI CERTIFIED® www.ahridirectory.org
Unitary Small HP
AHRI Standard 210/240
Certification applies only when the complete system is tested with AHU.

Intertek

© 2026 Mitsubishi Electric Trane HVAC US LLC. All rights reserved.