PEAD-A42AA7 & PUZ-A42NKA7 MID STATIC HORIZONTAL-DUCTED INDOOR UNIT 42,000 BTU/H HEAT PUMP UNIVERSAL OUTDOOR



Job Name:	
System Reference:	Date:





Indoor Unit	PEAD-A42AA7
Outdoor Unit	DUZ AZNIZAZ

PRMH20250492

Full-Sized legible color report must be on site and made available by the Permittee for all inspections.

City of Puyallup Development & Permitting Services ISSUED PERMIT		
Building	Planning	
Engineering	Public Works	
Fire	Traffic	

INDOOR UNIT FEATURES

- Unobtrusive ceiling-concealed design for short-run ductwork
- Wide ranging external static pressure (0.14-0.60 in. WG)
- Built-in condensate lift mechanism (up to 27-9/16")
- · Auto fan speed mode
- · Optional FB Series filter boxes for easy access and service
- · Ideal for residential homes, retail shopping centers, larger classrooms, office complexes, conference rooms, ballrooms, fitness centers, and more
- Multiple control options available:
 - o kumo cloud® smart device app for remote access
 - Third-party interface options
 - o Wired or wireless controllers

OUTDOOR UNIT FEATURES

- Variable speed INVERTER-driven compressor
- · Pre-charged with refrigerant volume for piping length up to 100 ft
- Low ambient cooling down to 0°F providing 100% capacity
- · 24-hour continuous operation (cooling mode)
- · High pressure protection
- · Fast restart
- · Superior energy and operational efficiency
- · Seacoast protection*
 - o External Outer Panel: Phosphate coating + Acrylic-Enamel coating
 - o Fan Motor Support: Epoxy resin coating (at edge face)
 - o Separator Assembly Valve Bed: Epoxy resin coating (at edge face)
 - o Blue Fin treatment is an anti-corrosion treatment that is applied to the Heat exchanger coil to protect it against airborne contaminants.
 - o Heat exchanger coil and base panel rated for 2,000 hours in accordance with ASTM B117 testing

^{*}Seacoast protection standard from 2022 production

SPECIFICATIONS: PEAD-A42AA7 & PUZ-A42NKA7

	Maximum Capacity	BTU/H	42,000
	Rated Capacity	BTU/H BTU/H	42,000 16,000
	Minimum Capacity	W BIO/H	3,920
Cooling at 95°F1	Maximum Power Input		<u> </u>
	Rated Power Input	W	3,920
	Moisture Removal	Pints/h	9.0
	Sensible Heat Factor		0,760
	Power Factor [208V / 230V]	%	93.6 / 93.6
	Maximum Capacity	BTU/H	48,000
Heating at 47°F ²	Rated Capacity	BTU/H	45,000
	Minimum Capacity	BTU/H	18,100
	Maximum Power Input	W	3,700
	Rated Power Input	W	3,290
	Power Factor [208V / 230V]	%	92.9 / 92.9
	Maximum Capacity	BTU/H	33,700
Heating at 17°F3	Rated Capacity	BTU/H	30,600
Heating at 17 F	Maximum Power Input	W	3,080
	Rated Power Input	W	3,040
Heating at E°E4	Maximum Capacity	BTU/H	29,400
Heating at 5°F ⁴	Maximum Power Input	W	3,000
	SEER SEER2		16.1 18.4
	EER1 EER21		10.7 10.7
	HSPF [IV] HSPF2 [IV]		10.0 9.0
Efficiency	COP at 47°F2		4.0
•	COP at 17°F at Maximum Capacity³		2.95
	COP at 5°F at Maximum Capacity ⁴		2.87
	ENERGY STAR® Certified		No
	Voltage, Phase, Frequency		208/230, 1, 60
	Guaranteed Voltage Range	VAC	198 - 253
	Voltage: Indoor - Outdoor, S1-S2	VAC	208/230
	Voltage: Indoor - Outdoor, S2-S3	V DC	24
Electrical	Short-circuit Current Rating [SCCR]	kA	5
	Recommended Fuse/Breaker Size (Oudoor)	A	30
	Recommended Wire Size [Indoor - Outdoor]	AWG	14
		AWG	Indoor unit is powered by the outdoor unit
Power Supply MCA		A	3,5
			2.8
	Fan Motor Full Load Amperage	A	
	Fan Motor Type	0514	DC Motor
	Airflow Rate at Cooling, Dry	CFM	1,042–1,254–1,483
	Airflow Rate at Cooling, Wet	CFM	1,002–1,214–1,443
	Airflow Rate at Heating, Dry	CFM	1,042–1,254–1,483
	Sound Pressure Level [Cooling]	dB[A]	36–40–44
	Sound Pressure Level [Heating]	dB[A]	36–40–44
Indoor Unit	External Static Pressure	in.WG	0.14-0.2-0.28-0.4-0.6
	Drain Pipe Size	In. [mm]	1-1/4 [32]
	Condensate Lift Mechanism, Maximum Distance	In. [mm]	27-9/16 [700]
	Coating on Heat Exchanger		
	External Finish Color		Galvanized
	Unit Dimensions	W x D x H: In. [mm]	55-1/8 x 28-7/8 x 9-7/8 [1,400 x 732 x 250]
	Package Dimensions	W x D x H: In. [mm]	65 x 34-11/16 x 13-7/16 [1,650 x 880 x 341]
	Unit Weight	Lbs. [kg]	91 [41]
	Package Weight	Lbs. [kg]	106 [48]
Indoor Unit Operating Temperature	Cooling Intake Air Temp [Maximum / Minimum]*	°F	90 DB, 72 WB / 66 DB, 61 WB
Range	Heating Intake Air Temp [Maximum / Minimum]	°F	77 DB / 59 DB

Conditions

NOTES: AHRI Rated Conditions

(Rated data is determined at a fixed compressor speed)

¹Cooling (Indoor // Outdoor) ²Heating at 47°F (Indoor // Outdoor) ³Heating at 17°F (Indoor // Outdoor)

80 DB, 67 WB // 95 DB, 75 WB 70 DB, 60 WB // 47 DB, 43 WB 70 DB, 60 WB // 17 DB, 15 WB °F °F

70 DB, 60 WB // 5 DB, 4 WB

4Heating at 5°F (Indoor // Outdoor) *Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):

• Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.

» Wind baffles required to operate below 23°F DB in cooling mode.

» Heat pump system with wind baffle: 0°F - 115°F.

» Refer to wind baffle documentation for further information.

**Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):

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

***Blue Fin Coating Standard from 2022 production:
• PU(Y/Z)-A(12/18)NKA7 - Beginning with serial number 12U*****
• PU(Y/Z)-A(24/30/36/42)NKA7 - Beginning with serial number 1ZU*****

SPECIFICATIONS: PEAD-A42AA7 & PUZ-A42NKA7

•	MCA	A	25.0
	MOCP	A	31
	Fan Motor Full Load Amperage	A	0.5 + 0.5
	Fan Motor Output	W	74
	Airflow Rate [Cooling / Heating]	CFM	3880 / 3880
	Refrigerant Control		LEV
	Defrost Method		Reverse Cycle
	Coating on Heat Exchanger		Blue Fin Coating***
	Sound Pressure Level, Cooling ¹		52
	Sound Pressure Level, Heating ²	dB(A)	53
Outdoor Unit	Compressor Type		INVERTER-driven twin rotary
	Compressor Model		MNB33FBRMC-L
	Compressor Rated Load Amps	A	8
	Compressor Locked Rotor Amps	A	13.0
	Compressor Oil [Type // Charge]	oz.	FV50S // 45
	External Finish Color		Ivory Munsell 3Y 7.8/1.1
	Base Pan Heater		N/A
	Unit Dimensions	W x D x H: In. [mm]	41-5/16 x 13 (+1-3/16) x 52-11/16 [1050 x 330 (+30) x 1338]
	Package Dimensions	W x D x H: In. [mm]	42-15/16 x 17-11/16 x 56-4/16 [1091 x 450 x 1429]
	Unit Weight	Lbs. [kg]	214 [97]
	Package Weight	Lbs. [kg]	245 [111]
	Cooling Air Temp [Maximum / Minimum]*	°F	115 DB / 0 DB
Outdoor Unit Operating Temperature Range	Heating Air Temp [Maximum / Minimum]	°F	70 DB, 59 WB / -4 DB, -4 WB
range	Heating Thermal Lock-out / Re-start Temperatures**	°F	-8 / -4
	Туре		R410A
Refrigerant	Pre-Charged Refrigerant Amount	Lbs, oz	10.0, 6.0
	Maximum Pre-Charged Piping Length	Ft. [m]	100.0 [30.0]
	Additional Refrigerant Charge Per Additional Piping Length	oz./Ft. [g/m]	0.7 [50]
	Gas Pipe Size O.D. [Flared]	In.[mm]	5/8 [15.88]
	Liquid Pipe Size O.D. [Flared]	In.[mm]	3/8 [9.52]
Piping	Maximum Piping Length	Ft. [m]	165 [50]
	Maximum Height Difference	Ft. [m]	100 [30]
	Maximum Number of Bends		15

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Conditions

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70 DB, 60 WB // 5 DB, 4 WB

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 PU(Y/Z)-A(24/30/36/42)NKA7 Beginning with serial number 1ZU*****

INDOOR UNIT ACCESSORIES: PEAD-A42AA7

	2 Dia Connector	
	3-Pin Connector	□ PAC-715AD
	Airzone ZBS Wired Blueface Principal Controller White	□ AZZBSBLUEFACECB
	Airzone ZBS Wired Blueface Principal Controller White	□ AZZBSBLUEZEROCB
	Airzone ZBS Wired Lite Controller White	□ AZZB\$LITECB
	Airzone ZBS Wireless Lite Controller White	□ AZZBSLITERB
	Airzone ZBS Wireless Think Controller White	□ AZZBSTHINKRB
Control Interface	BACnet® and Modbus® Interface	□ PAC-UKPRC001-CN-1
Solid State of the	CN24 Relay Kit	□ CN24RELAY-KIT-CM3
	IT Extender	□ PAC-WHS01IE-E
	kumo station® for kumo cloud®	□ PAC-WHS01HC-E
	Remote Operation Adapter [‡]	□ PAC-SF40RM-E
	Thermostat Interface	□ PAC-US444CN-1
	Thermostat Interface	□ PAC-US445CN-1
	USNAP Adapter	□ PAC-WHS01UP-E
	Flush Mount Remote Temperature Sensor	□ PAC-USSEN002-FM-1
Remote Sensor	Flush Mount Temperature Sensor	□ PAC-USSEN001-FM-1
Remote Sensor	Remote Temperature Sensor	□ PAC-SE41TS-E
	Wireless temperature and humitity sensor for kumo cloud®	□ PAC-USWHS003-TH-1
	Deluxe Wired MA Remote Controller [†]	□ PAR-40MAAU
Mine d Democks Controlled	Simple Ductless Wired Remote Controller	□ PAC-SDW01RC-1
Wired Remote Controller	Simple MA Remote Controller [†]	□ PAC-YT53CRAU-J
	Touch MA Controller [†]	□ PAR-CT01MAU-SB
	kumo touch™ RedLINK™ Wireless Controller	□ MHK2
	Lockdown bracket for remote controller	□ RCMKP1CB
Wireless Remote Controller	Wireless MA Receiver	□ PAR-FA32MA-W
	Wireless MA Remote Controller	□ PAR-FL32MA-E
	Blue Diamond (Advanced) Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]	□ X87-721
	Blue Diamond (MegaBlue Advanced) Condensate Pump w/ Reservoir & Sensor	□ X87-835
Condensate	Blue Diamond Sensor Extension Cable — 15 Ft.	□ C13-103
	Refco Condensate Pump (100-240 VAC) up to 120,000 BTU/H	□ COMBI
	20/2PR, 1PR shielded + 1PR plenum wire for Airzone, 100 ft reel	□ CW2042S2-100
Control Wire	20/2PR, shielded + 1PR plenum wire for Airzone, 500 ft reel	□ CW2042S2-500
	(30A/600V/UL) [fits 2" X 4" utility box] - Black	□ TAZ-MS303
Disconnect Switch	(30A/600V/UL) [fits 2" X 4" utility box] - White	□ TAZ-MS303W
Filter Box	Filter Box with MERV 13 Filter	□ FBM2-4-A
Lineset	10' x 3/8" x 10' x 5/8" Lineset (Twin-Tube Insulation)	□ MPLS385812T-10
	100' x 3/8" x 100' x 5/8" Lineset (Twin-Tube Insulation)	□ MPLS385812T-100
	15' x 3/8" x 15' x 5/8" Lineset (Twin-Tube Insulation)	□ MPLS385812T-15
	30' x 3/8" x 30' x 5/8" Lineset (Twin-Tube Insulation)	□ MPLS385812T-30
	50' x 3/8" x 50' x 5/8" Lineset (Twin-Tube Insulation)	□ MPLS385812T-50
	65' x 3/8" x 65' x 5/8" Lineset (Twin-Tube Insulation)	□ MPLS385812T-65
		□ IVIF L33030 21=03

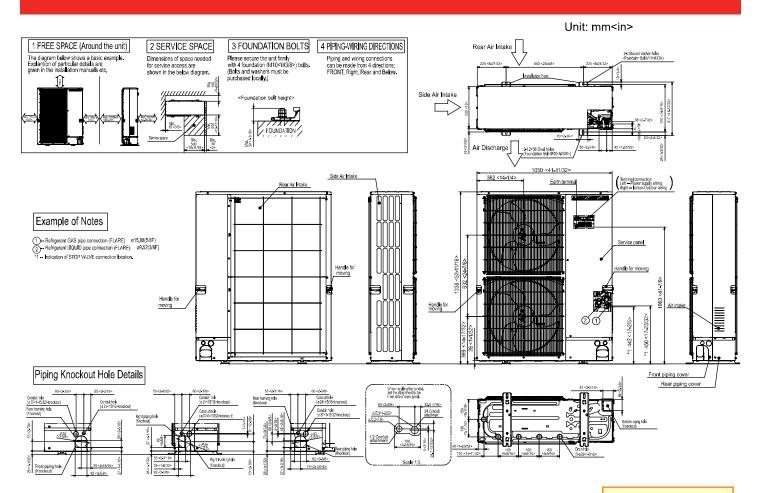
NOTES:
[‡]PAC-SF40RM-E (Unable to use with wireless remote controller)

OUTDOOR UNIT ACCESSORIES: PUZ-A42NKA7

Air Outlet Guide	Air Outlet Guide (1 Piece)	□ PAC-SG59SG-E
	Air Outlet Guide (1 Piece)	□ PAC-SH96SG-E (two pieces are required)
Control/Service Tool	Control/Service Tool	□ PAC-SK52ST
	M- & P-Series Maintenance Tool Cable Set	□ M21EC0397
	USB/UART Conversion Cable (Required for all laptop connection)	□ M21EC1397
M-NET Converter M-NET Converter M-NET Converter	M-NET Converter	□ PAC-SJ85MA-E
	M-NET Converter	□ PAC-SJ95MA-E
	14 Gauge, 4 wire MiniSplit Cable—250 ft. roll	□ S144-250
	14 Gauge, 4 wire MiniSplit Cable—50 ft. roll	□ S144-50
Mini-Split Wire	16 Gauge, 4 wire MiniSplit Cable—250 ft. roll	□ \$164-250
	16 Gauge, 4 wire MiniSplit Cable—50 ft. roll	□ S164-50
Mounting Pad	Condensing Unit Mounting Pad: 24" x 42" x 3"	□ ULTRILITE2
	18" Dual Fan Stand	□ QSMS1802M
Stand	24" Dual Fan Stand	□ QSMS2402M
	Condenser Wall Bracket	□ QSWB2000M-1
	Condenser Wall Bracket - Stainless Steel Finish	□ QSWBSS
	Outdoor Unit Stand — 12" High	□ QSMS1202M
Wind Baffle	Front Wind Baffle	□ WB-PA3 (two pieces are required)
	Rear Wind Baffle	□ WB-RE6
	Side Advanced Wind Baffle	□ WB-SD6

INDOOR UNIT DIMENSIONS: PEAD-A42AA7

OUTDOOR UNIT DIMENSIONS: PUZ-A42NKA7



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





Specifications are subject to change without notice.