

PLA-AE48NL & PUZ-AK48NLHZ
48,000 BTU/H CEILING CASSETTE INDOOR UNIT
48,000 BTU/H HYPER HEAT PUMP OUTDOOR UNIT



Job Name:

System Reference:

Date:



Indoor Unit.....PLA-AE48NL

Outdoor Unit.....PUZ-AK48NLHZ



INDOOR UNIT FEATURES

- Multiple control options, including the comfort app for remote access, third-party interfaces, and both wired and wireless controllers
- Up and down swing-mode: An indoor unit with this capability can move air up and down throughout the room like an oscillating fan using the horizontal vanes.
- Space-efficient ductless installation
- PLA Airflow settings: Airflow settings for high and low ceiling applications
- Light commercial: Units with this icon are suitable for light commercial applications such as small offices, restaurants, and retail.
- Individual vane settings: Individual vane settings for direct/indirect airflow control or variable airflow patterns
- Ideal PLA spaces: Ideal for retail shops, classrooms, office spaces, conference centers, building lobbies, and more
- Filter indicator signal
- Easy-to-clean filter: Easy-to-clean, washable filter (optional high-efficiency filter available - requires multi-function casement)
- Built-in condensate lift mechanism
- Available Knockouts: Knockouts for outside-air intake and branch-duct run
- 3D i-see Sensor®: The advanced sensor scans each room to produce a complete thermal profile that includes heat signatures based upon size, temperature and movement, then adjusts temperature and airflow based on user preference, and saves energy according to room occupancy.

OUTDOOR UNIT FEATURES

- Built-in base pan heater
- High Speed Start-up: High speed heating at start up: Hyper-Heating INVERTER® reduces the time for heating at start up by about half compared to standard models
- Hyper-Heating INVERTER®: Variable speed INVERTER-driven compressor
- Pre-charged refrigerant: volume for piping length up to 100 ft
- Pressure/temp protection
- Seacoast protection: components are rated for 2,000 hours of durability under ASTM B117 testing standards, ensuring longevity in corrosive coastal environments.
- Wide Heating Range: Wide heating range: heating performance down to -13°F (average of 80% heating capacity)

SPECIFICATIONS: PLA-AE48NL & PUZ-AK48NLHZ

Cooling at 95F ¹	Maximum Capacity	Btu/h	49,000
	Rated Capacity	Btu/h	48,000
	Minimum Capacity	Btu/h	16,800
	Maximum Power Input	W	4,770
	Rated Power Input	W	4,560
	Moisture Removal	Pints/h	14.6
	Sensible Heat Factor	-	0.67
Heating at 47F ²	Power Factor [208V / 230V]	%	99 / 99
	Maximum Capacity	Btu/h	60,000
	Rated Capacity	Btu/h	60,000
	Minimum Capacity	Btu/h	16,000
	Maximum Power Input	W	5,328
	Rated Power Input	W	5,328
	Power Factor [208V / 230V]	%	99 / 99
Heating at 17F ³	Maximum Capacity	Btu/h	52,000
	Rated Capacity	Btu/h	36,600
	Maximum Power Input	W	7,260
	Rated Power Input	W	4,110
Heating at 5F ⁵	Maximum Capacity	Btu/h	52,000
Heating at 5F ⁴	Maximum Power Input	W	8,021
Heating at -13F ⁹	Maximum Capacity	Btu/h	39,600
Efficiency	SEER2		20.1
	EER2 ¹		10.5
	HSPF2 [IV]		9.2
	COP at 47°F ²		3.3
	COP at 17°F at Maximum Capacity ³		2
	COP at 5°F at Maximum Capacity ⁴		1.9
	COP at -13°F at Maximum Capacity ⁸		1.84
Electrical	ENERGY STAR® Certified		No
	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	40
Indoor Unit	Recommended Wire Size [Indoor - Outdoor]	AWG	14
	MCA	A	2
	Fan Motor Output	W	120
	Airflow Rate at Cooling, Dry	CFM	740, 920, 1,060, 1,200
	Airflow Rate at Heating, Dry	CFM	740, 920, 1,060, 1,200
	Sound Pressure Level [Cooling]	dB (A)	34, 38, 42, 45
	Sound Pressure Level [Heating]	dB (A)	34, 38, 42, 45
	Drain Pipe Size O.D.	inch [mm]	1-1/4 [32]
	External Finish Color		1.0Y 9.2/0.2
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	33-1/16 x 33-1/16 x 11-3/4 [840 x 840 x 298]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	34-5/16 x 35-9/16 x 15 [871 x 903 x 381]
	Unit Weight	lbs [kg]	57 [26]
	Package Weight	lbs [kg]	82 [37]
	Fan Motor Type		DC Motor
IDU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	90, 73 / 66, 59
	Heating Intake Air Temp [Maximum / Minimum]	°FDB	77 / 59

NOTES

¹Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)

²Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)

³Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)

⁴Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)

⁵Heating at -13°F (Indoor: 70°F DB, 60°F WB // Outdoor: -13°F DB, -14°F WB)

*Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):

• 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 and automatically restarts at these temperatures.

SPECIFICATIONS: PLA-AE48NL & PUZ-AK48NLHZ

Outdoor Unit	MCA	A	35
	MOCP	A	60
	Fan Motor Output	W	200+200
	Airflow Rate Cooling	CFM	4,020
	Airflow Rate Heating	CFM	4,020
	Defrost Method		Reverse Cycle
	Coating on Heat Exchanger (Bluefin, Sea Coast)		Yes, Yes
	Sound Pressure Level, Cooling ¹	dB (A)	60
	Sound Pressure Level, Heating ²	dB (A)	62
	Compressor Type		Twin Rotary
	Compressor Model		MRK53FFJMC-L
	Compressor Oil [Type // Charge]	Type // oz	RM68EH // 60
	External Finish Color		Munsell 3Y 7.8/1.1
	Base Pan Heater		Built-in
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	41-11/32 x 13-31/32 x 52-43/64 [1,050 x 355 x 1,338]
	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 [1,090 x 450 x 1,480]
ODU Operating Temp. Range	Unit Weight	lbs [kg]	271 [123]
	Package Weight	lbs [kg]	298 [135]
	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 23
	Heating Intake Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	70, 59 / -13, -13
Refrigerant	Heating Thermal Lock-out / Re-start Temperatures**	°FDB	-22 / -13
	Type		R454B
	Pre-Charged Refrigerant Amount	lbs, oz	11, 7
	Maximum Pre-Charged Piping Length	ft [m]	100 [30]
	Additional Refrigerant Charge Per Additional Piping Length	oz/ft	0.6
Piping	Gas Pipe Size O.D. [Flared]	inch [mm]	5/8 [15.88]
	Liquid Pipe Size O.D. [Flared]	inch [mm]	3/8 [9.52]
	Maximum Piping Length	ft [m]	245 [75]
	Maximum Height Difference	ft [m]	100 [30]
	Maximum Number of Bends		15

NOTES

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³Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)

⁴Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)

⁵Heating at -13°F (Indoor: 70°F DB, 60°F WB // Outdoor: -13°F DB, -14°F WB)

*Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):

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

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• Refer to wind baffle documentation for further information.

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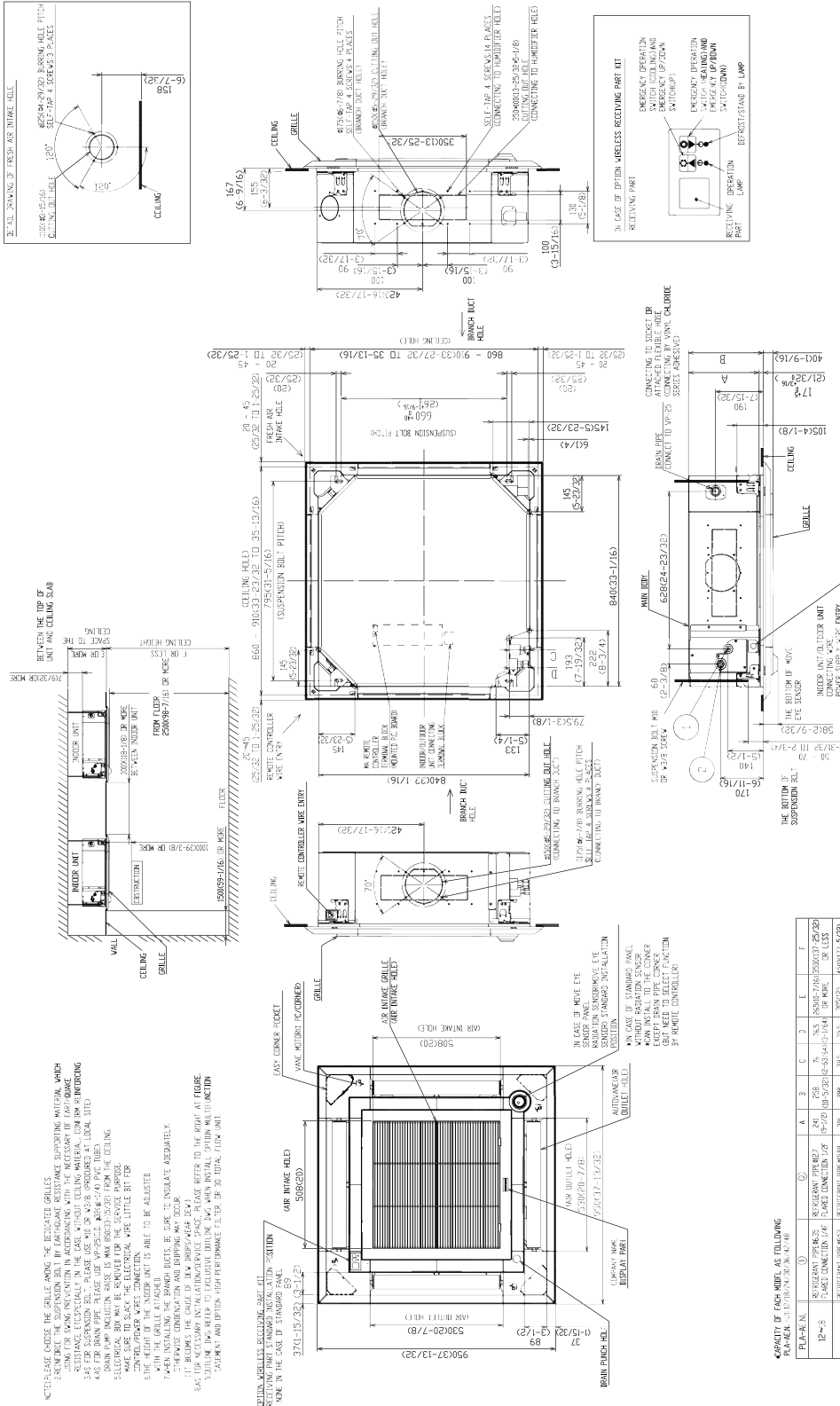
INDOOR UNIT ACCESSORIES: PLA-AE48NL

Remote Sensor	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
	Wireless temperature and humidity sensor for the Comfort app	PAC-USWHS003-TH-1
Wired Remote Controller	Deluxe Wired MA Remote Controller ¹	PAR-42MAAUB
	Simple Direct Wired Remote Controller	PAC-SDW01RC-1
	Simple MA Remote Controller	PAC-YT53CRAU-J
	Touch MA Wired Remote Controller ¹	PAR-CT01MAU-SB
Control Interface	Airzone Wired Blueface Controller Black	AZZBSBLUEZEROCN
	Airzone Wired Blueface Controller White	AZZBSBLUEZEROCB
	Airzone Wireless Lite Controller Black	AZZBSLITERN
	Airzone Wireless Lite Controller White	AZZBSLITERB
	Airzone Wireless Think Controller Black	AZZBSTHINKRN
	Airzone Wireless Think Controller White	AZZBSTHINKRB
	IT Extender for kumo station	PAC-WHS01IE-E
	kumo station for the Comfort app	PAC-WHS01HC-E
	Operation and Error Status Output Adapter	PAC-SF40RM-E
	Procon BACnet and Modbus Interface	PAC-UKPRC001-CN-1
	Thermostat Interface for 3rd Party Thermostats	PAC-US445CN-1
Lineset	Wireless Interface Adapter for the Comfort app	PAC-USWHS002-WF-2
	10 x 3/8 x 10 x 5/8 Lineset Twin-Tube Insulation	MPLS385812T-10
	100 x 3/8 x 65 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
Power Supplies & Auxiliary Components	65 x 3/8 x 65 x 5/8 Lineset Twin-Tube Insulation	MPLS385812T-65
	3-Pin Wiring Harness	PAC-715AD
Condensate	5-Pin Wiring Harness	PAC-725AD
	Blue Diamond Advanced Mini Condensate Pump w Reservoir Sensor 208230V recommended	X87-721
	Blue Diamond MaxiBlue Advanced Mini Condensate Pump w Reservoir Sensor 110V up to 48000 BTUH recommended	X87-711
	Blue Diamond MegaBlue Advanced Condensate Pump w Reservoir Sensor	X87-835
	Blue Diamond Sensor Extension Cable 15 Ft	C13-103
	Refco Condensate Pump 100-240 VAC up to 120000 BTUH	COMBI
Wireless Remote Controller	Sauermann Condensate Pump	SI30-230
	Lockdown Bracket for Wireless Handheld Remote Controllers	RCMKP1CB
	RedLINK Wireless Remote Controller	MHK2
	Universal Wireless MA Handheld Remote Controller	PAR-FL32MA-E
	Universal Wireless Receiver for PAR-FL32MA-E	PAR-FA32MA-W
	Wireless Handheld Remote Controller for SLZ PLA and PLFY models	PAR-SL101A-E
	Wireless Receiver for PAR-SL101A-E on PLA-NL and PLFY-ELNEMU models	PAR-SR4LU-E
Power Supplies and Auxiliary Components	Wireless Remote Receiver Panel	PAR-SR3LA-E
	Backup Heat Relay Kit Adapter for CN24 or CN152 Connector	CN24RELAY-KIT-CM3
Disconnect Switch	30A600VUL fits 2 X 4 utility box - Black	TAZ-MS303
	30A600VUL fits 2 X 4 utility box - White	TAZ-MS303W
Shutter Plate	Shutter Plate	PAC-SJ37SP-E
Filter	High Efficiency Filter Element	PAC-SH59KF-E
Casement	3D Total Flow Unit	PLP-U160ELR-E
	Multi-function Casement	PAC-SJ41TM-E
i-see Sensor® Panel	Grille with 3D i-see Sensor (required)	PLP-41EAEU
Space Panel	Space Panel	PAC-SJ38AS-E
NOTES ¹ Requires MAC-334IF-E Interface to connect MA controller ¹ Requires MAC-334IF-E Interface to connect MA controller ¹ Requires MAC-334IF-E Interface to connect MA controller ¹ Requires MAC-334IF-E Interface to connect MA controller		

OUTDOOR UNIT ACCESSORIES: PUZ-AK48NLHZ

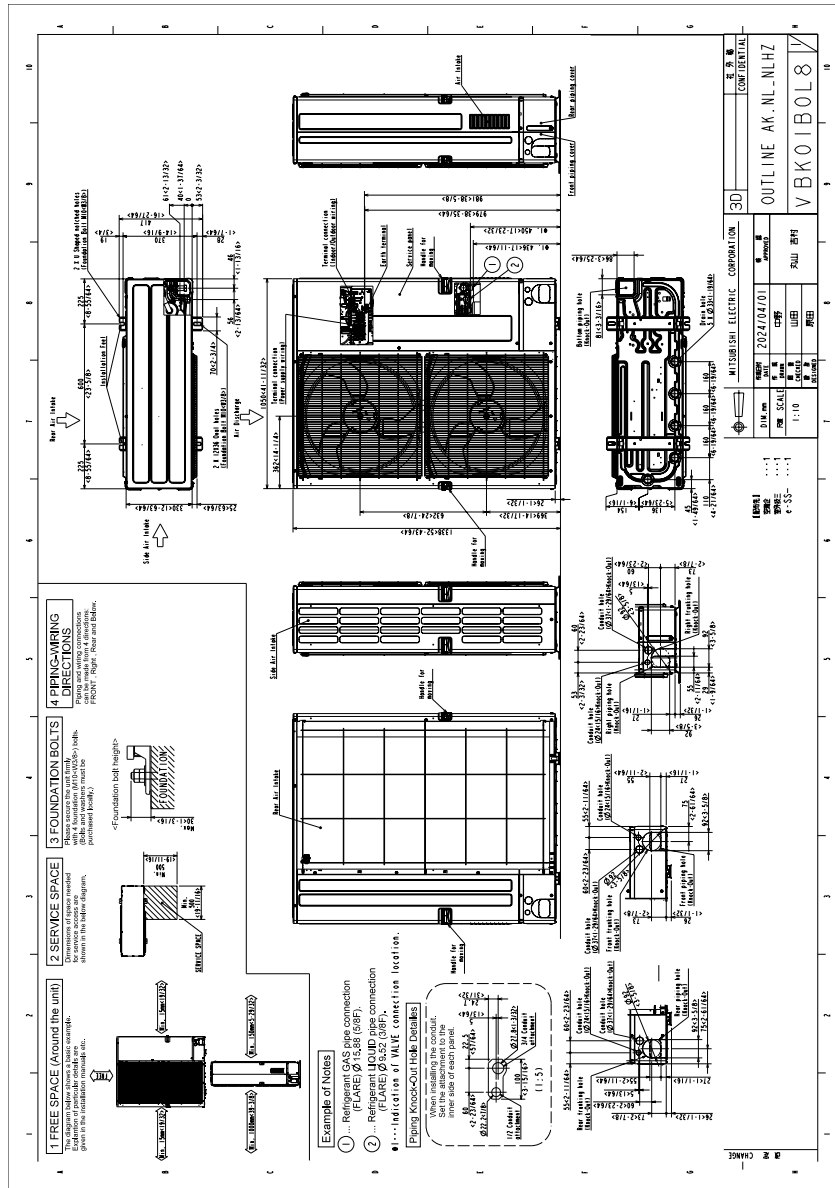
Mounting Pad	Condensing Unit Mounting Pad 24 x 42 x 3	ULTRILITE2
Air Outlet Guide	Air Outlet Guide 1 Piece	PAC-SH96SG-E (two pieces are required)
Stand	18 Dual Fan Stand	QSMS1802M
	24 Dual Fan Stand	QSMS2402M
	Condenser Wall Bracket - Stainless Steel Finish	QSWBSS
	Condenser Wall Bracket	QSWB2000M-1
	Outdoor Unit 3-14 inch Mounting Base Pair - Plastic	DSD-400P
	Outdoor Unit Stand 12 High	QSMS1202M
Snow/Rain Diverter	SnowRain Diverter	SRD-5
Mini-Split Wire	14 Gauge 4 wire Armored MiniSplit Cable250 ft roll	SW144-250
	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 MiniSplit Cable50 ft roll	S144-50
Control/Service Tool	ControlService Tool	PAC-SK52ST
	M- & P-Series Maintenance Tool Cable Set	M21EC0397
	Maintenance Tool Interface	PAC-USCMS-MN-1
Hail Guards	Hail Guard	HG-A2
Wind Baffle	Front Wind Baffle	WB-PA3 (two pieces are required)
M-NET Converter	M-Net Interface for P-Series	PAC-SJ95MA-E
Power Supplies & Auxiliary Components	3-Pin Wiring Harness	PAC-715AD
	5-Pin Wiring Harness	PAC-725AD
Centralized Drain Pan	Centralized Drain Pan	PAC-SH97DP-E
Drain Socket	Drain Socket	PAC-SG61DS-E
NOTES		

INDOOR UNIT DIMENSIONS: PLA-AE48NL



CAPACITY OF FISH POOLS AS FOLLOWING										
PLANT NO.		①	②		A	B	C	D	E	F
FISH-1	1	RETENTION PPE #27	24	258	75	765	765	765	765	765
		FLAED COMING 1.5 F	19.70	212.50	62.40	634.50	634.50	634.50	634.50	634.50
FISH-2	2	RETENTION PPE #30	20	288	75	765	765	765	765	765
		FLAED COMING 1.5 F	16.00	172.50	51.00	517.50	517.50	517.50	517.50	517.50
FISH-3	3	RETENTION PPE #32	20	288	75	765	765	765	765	765
		FLAED COMING 1.5 F	16.00	172.50	51.00	517.50	517.50	517.50	517.50	517.50
FISH-4	4	RETENTION PPE #34	20	288	75	765	765	765	765	765
		FLAED COMING 1.5 F	16.00	172.50	51.00	517.50	517.50	517.50	517.50	517.50
FISH-5	5	RETENTION PPE #36	20	288	75	765	765	765	765	765
		FLAED COMING 1.5 F	16.00	172.50	51.00	517.50	517.50	517.50	517.50	517.50
FISH-6	6	RETENTION PPE #38	20	288	75	765	765	765	765	765
		FLAED COMING 1.5 F	16.00	172.50	51.00	517.50	517.50	517.50	517.50	517.50
FISH-7	7	RETENTION PPE #40	20	288	75	765	765	765	765	765
		FLAED COMING 1.5 F	16.00	172.50	51.00	517.50	517.50	517.50	517.50	517.50
FISH-8	8	RETENTION PPE #42	20	288	75	765	765	765	765	765
		FLAED COMING 1.5 F	16.00	172.50	51.00	517.50	517.50	517.50	517.50	517.50
FISH-9	9	RETENTION PPE #44	20	288	75	765	765	765	765	765
		FLAED COMING 1.5 F	16.00	172.50	51.00	517.50	517.50	517.50	517.50	517.50
FISH-10	10	RETENTION PPE #46	20	288	75	765	765	765	765	765
		FLAED COMING 1.5 F	16.00	172.50	51.00	517.50	517.50	517.50	517.50	517.50
FISH-11	11	RETENTION PPE #48	20	288	75	765	765	765	765	765
		FLAED COMING 1.5 F	16.00	172.50	51.00	517.50	517.50	517.50	517.50	517.50
FISH-12	12	RETENTION PPE #50	20	288	75	765	765	765	765	765
		FLAED COMING 1.5 F	16.00	172.50	51.00	517.50	517.50	517.50	517.50	517.50
FISH-13	13	RETENTION PPE #52	20	288	75	765	765	765	765	765
		FLAED COMING 1.5 F	16.00	172.50	51.00	517.50	517.50	517.50	517.50	517.50
FISH-14	14	RETENTION PPE #54	20	288	75	765	765	765	765	765
		FLAED COMING 1.5 F	16.00	172.50	51.00	517.50	517.50	517.50	517.50	517.50
FISH-15	15	RETENTION PPE #56	20	288	75	765	765	765	765	765
		FLAED COMING 1.5 F	16.00	172.50	51.00	517.50	517.50	517.50	517.50	517.50
FISH-16	16	RETENTION PPE #58	20	288	75	765	765	765	765	765
		FLAED COMING 1.5 F	16.00	172.50	51.00	517.50	517.50	517.50	517.50	517.50
FISH-17	17	RETENTION PPE #60	20	288	75	765	765	765	765	765
		FLAED COMING 1.5 F	16.00	172.50	51.00	517.50	517.50	517.50	517.50	517.50
FISH-18	18	RETENTION PPE #62	20	28						

OUTDOOR UNIT DIMENSIONS: PUZ-AK48NLHZ



1340 Satellite Boulevard Suwanee, GA 30024
Toll Free: 800-433-4822 <https://mitsubishicomfort.com>

