

Job Name:

System Reference:

Date:

Indoor Unit:
PLA-A42EA7



Outdoor Unit:
☐ PUY-A42NKA7
☐ PUY-A42NKA7-BS



INDOOR UNIT FEATURES

- Space-efficient ductless installation
- Equipped with 3D i-see Sensor® for enhanced comfort and energy efficiency
- Airflow settings for high and low ceiling applications
- Individual vane settings for direct/indirect airflow control or variable airflow patterns
- Knockouts for outside-air intake and branch-duct run
- Filter indicator signal
- Easy-to-clean, washable filter (optional high-efficiency filter available - requires multi-function casement)
- Built-in condensate lift mechanism
- Ideal for retail shops, classrooms, office spaces, conference centers, building lobbies, and more

OUTDOOR UNIT FEATURES

- Variable speed INVERTER-driven compressor
- Power receiver pre-charged with refrigerant volume for piping length up to 100 ft (70 ft. for A12/18/24/30)
- Low ambient cooling down to -40°F providing 100% capacity (only for PUY models with wind baffles installed)
- 24-hour continuous operation (cooling mode)
- High pressure protection
- Fast restarts in cooling mode (15 seconds for 12/18/36/42; 50 seconds for 24/30)
- Superior energy and operational efficiency

SPECIFICATIONS: PLA-A42EA7 & PUY-A42NKA7(-BS)

Cooling ¹	Maximum Capacity	BTU/H	42,000
	Rated Capacity	BTU/H	42,000
	Minimum Capacity	BTU/H	16,000
	Maximum Power Input	W	3,590
	Rated Power Input	W	3,590
	Moisture Removal	Pints/h	7.9
	Sensible Heat Factor		0.79
	Power Factor	%	94.6
Efficiency	SEER		21.0
	EER ¹		11.6
Electrical	Voltage, Phase, Frequency		208 / 230V, 1-phase, 60 Hz
	Guaranteed Voltage Range	V AC	198 – 253
	Voltage: Indoor - Outdoor, S1-S2	V AC	208 / 230
	Voltage: Indoor - Outdoor, S2-S3	V DC	24
	Short-circuit Current Rating (SCCR)	kA	12
	Recommended Fuse/Breaker Size (Outdoor)	A	30
	Recommended Wire Size (Indoor - Outdoor)	AWG	14
Indoor Unit	MCA	A	2.00
	Fan Motor Full Load Amperage	A	0.95
	Fan Motor Output	W	120
	Airflow Rate, Dry	CFM	740-920-1060-1200
	Airflow Rate, Wet	CFM	700-880-1020-1160
	External Static Pressure	in.WG	n/a
	Sound Pressure Level	dB(A)	34-38-42-45
	Drain Pipe Size	In. (mm)	1-1/4 (32)
	Condensate Lift Mechanism, Max. Distance	In.	33-7/16
	Heat Exchanger Type		Plate fin coil
	External Finish Color		White Munsell 6.4Y 8.9/0.4
	Unit Dimensions // Grille Dimensions	W: In. (mm)	33-1/16 (840) // 37-13/32 (950)
		D: In. (mm)	33-1/16 (840) // 37-13/32 (950)
		H: In. (mm)	11-3/4 (298) // 1-9/16 (40)
	Package Dimensions // Grille Dimensions	W: In. (mm)	35-9/16 // 39-6/16
		D: In. (mm)	34-5/16 // 38-3/16
		H: In. (mm)	16-9/16 // 4-12/16
	Unit Weight // Grille Weight	Lbs. (kg)	56 (25) // 11 (5)
	Package Weight	Lbs. (kg)	77 (35)
Indoor Unit Operating Temperature Range	Cooling Intake Air Temp (Maximum / Minimum)	°F	90 DB, 73 WB / 66 DB, 59 WB
Outdoor Unit	MCA	A	25
	MOCP	A	31
	Fan Motor Full Load Amperage	A	0.5 + 0.5

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	Fan Motor Output	W	74 + 74
	Airflow Rate	CFM	3,880
	Refrigerant Control	Electronic Expansion Valve	
	Heat Exchanger Type	Cross fin	
	Sound Pressure Level, Cooling ¹	dB(A)	52
	Compressor Type	INVERTER-driven twin rotary	
	Compressor Model	MNB33FBRMC-L	
	Compressor Rated Load Amps	A	8
	Compressor Locked Rotor Amps	A	13
	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: In. (mm)	41-5/16 (1050)
		D: In. (mm)	13+1-3/16 (330 + 30)
		H: In. (mm)	52-11/16 (1338)
	Package Dimensions	W: In. (mm)	42-15/16
		D: In. (mm)	17-11/16
		H: In. (mm)	56-4/16
	Unit Weight	Lbs. (kg)	211 (96)
	Package Weight	Lbs. (kg)	243 (110)
Outdoor Unit Operating Temperature Range	Cooling Intake Air Temp (Maximum / Minimum)	°F	115 DB / -40* DB
Refrigerant	Type	R410A	
	Charge	Lbs, oz	10 lbs, 6 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	

Notes

AHRI Rated Conditions (Rated data is determined at a fixed compressor speed)	¹ Cooling (Indoor // Outdoor)	°F	80 DB, 67 WB // 95 DB, 75 WB
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*Wind baffles required to operate below 23°F DB in cooling mode. For PUY models, wind baffles can be utilized to extend the cooling operation range to -40F. Please refer to the wind baffle submittals to determine which baffles are required to meet the desired operation range.

**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.

ACCESSORIES: PLA-A42EA7

High-efficiency Filter Element	□ PAC-SH59KF-E
Wireless Remote Receiver	□ PAR-FA32MA-W
Wireless Remote Receiver	□ PAR-FA32MA-E
Signal Receiver	□ PAR-SR3LA-E
kumo touch™ RedLINK™ Wireless Controller	□ MHK2
Deluxe MA Remote Controller	□ PAR-40MAAU
Simple MA Controller	□ PAC-YT53CRAU-J
Touch MA Controller	□ PAR-CT01MAU-SB
Wired Remote Sensor	□ PAC-SE41TS-E
Lockdown Bracket for Wireless, Hand-held, Remote Controller	□ RCMKP1CB
Wireless Temperature and Humidity Sensor	□ PAC-USWHS003-TH-1
Flush Mount Remote Temperature Sensor	□ PAC-USSEN001-FM-1
Wireless Interface 2	□ PAC-USWHS002-WF-2
Thermostat Interface	□ PAC-US444CN-1
kumo station®	□ PAC-WHS01HC-E
USNAP Interface	□ PAC-WHS01UP-E
IT Extender	□ PAC-WHS01IE-E
BACnet® and MODBUS® Interface	□ PAC-UKPRC001-CN-1
External Fan / Heater Control Relay Adapter	□ CN24RELAY-KIT-CM3
Connector for CN32 (remote on/off)	□ PAC-SE55RA-E
Remote Operation Adapter (with wire terminals for remote ON/OFF and operation status/ error) ¹	□ PAC-SF40RM-E
Grille (required)	□ PLP-40EAEU
Multi-Function Casement	□ PAC-SJ41TM-E
Installation/Trim Panels	□ PLFY-ITP1
Space Panel	□ PAC-SJ38AS-E
Air Outlet Shutter Plate	□ PAC-SJ37SP-E
Blue Diamond Sensor Extension Cable—15 Ft.	□ C13-103
MegaBlue Advanced Blue Diamond Condensate Pump w/ Reservoir & Sensor	□ X87-835 - 110 to 250V
MaxiBlue Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) up to 48,000 BTU/H [recommended]	□ X87-721 - 208/230V
3 Pole Disconnect Switch (30A/600VUL) [fits 2"X4" utility] - Black	□ TAZ-MS303
3 Pole Disconnect Switch (30A/600VUL) [fits 2"X4" utility] - White	□ TAZ-MS303W

¹ Unable to use with wireless remote controller

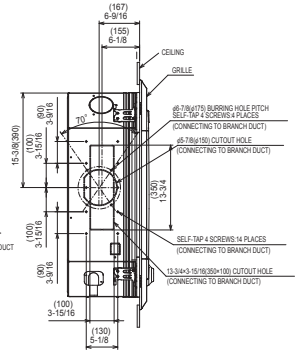
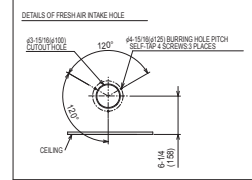
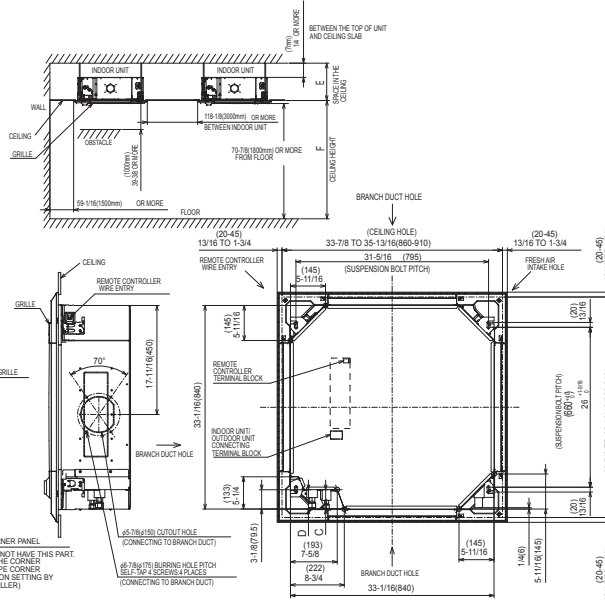
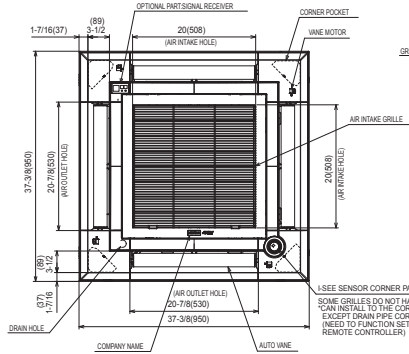
ACCESSORIES: PUY-A42NKA7(-BS)

Air Outlet Guide	□ PAC-SH96SG-E (two pieces are required)
Front Wind Baffle	□ WB-PA3 (two pieces are required)
Side Advanced Wind Baffle	□ WB-SD6
Rear Advanced Wind Baffle	□ WB-RE6
Drain Socket	□ PAC-SG61DS-E
M-NET Converter	□ PAC-SJ85MA-E
M-NET Converter	□ PAC-SJ95MA-E
Control/Service Tool	□ PAC-SK52ST
Condensing Unit Mounting Pad 24" x 42" x 3"	□ ULTRILITE2
Outdoor Unit Stand—12" High	□ QSMS1202M
Outdoor Unit Stand—18" High	□ QSMS1802M
Outdoor Unit Stand—24"High	□ QSMS2402M
Heavy Duty Wall Mounting Bracket for Outdoor Units—Coated Steel	□ QSWB2000M-1
Heavy Duty Wall Mounting Bracket for Outdoor Units—316 Series Stainless Steel	□ QSWBSS
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: PLA-A42EA7

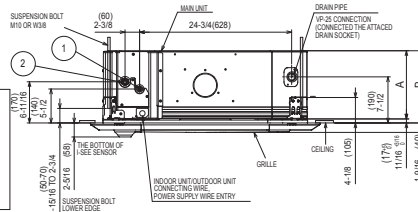
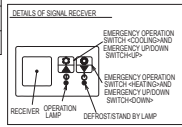
Unit: inch (mm)

- NOTE1 CHOOSE THE GRILLE AMONG THE DEDICATED GRILLES.
 2 REINFORCE THE SUSPENSION BOLT FOR EARTHQUAKE-RESISTANCE AS NEEDED.
 3 FOR THE SUSPENSION BOLT, USE M10 OR W38.
 (PROCURED AT THE LOCAL SITE.)
 4 FOR DRAIN PIPE, USE VP-350 (3/4" x 1/4" x 3/32" PVC TUBE).
 DRAIN PUMP INCLUSION.
 5 ELECTRICAL BOX MAY BE REMOVED FOR THE SERVICE PURPOSE.
 MAKE SURE TO SLACK THE ELECTRICAL WIRE LITTLE BIT FOR
 CONTROL-POWER WIRE CONNECTION.
 6 THE HEIGHT OF THE INDOOR UNIT IS ABLE TO BE ADJUSTED
 WITH THE GRILLE ATTACHED.
 7 REQUIRES 3" OR MORE SPACE BETWEEN TRANSOM AND CEILING FOR THE INSTALLATION.
 8 WHEN INSTALLING THE BRANCH DUCTS, BE SURE TO INSULATE ADEQUATELY
 OTHERWISE CONDENSATION AND DRIPPING MAY OCCUR.
 (IT BECOMES THE CAUSE OF DROPLET OR DROPLET DRIPPING).
 9 AS FOR NECESSARY INSTALLATION SERVICE SPACE, PLEASE REFER TO THE
 RIGHT AT FIGURE.
 10 FOR THE INSTALLATION OF THE OPTIONAL HIGH EFFICIENCY FILTER OR
 MULTI-FUNCTIONAL CASEMENT REFER TO SPECIAL DRAWING.



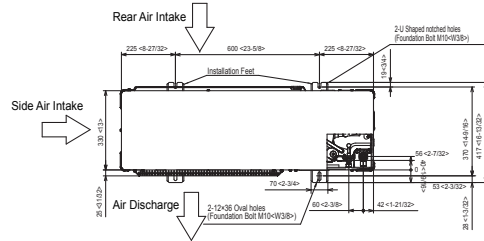
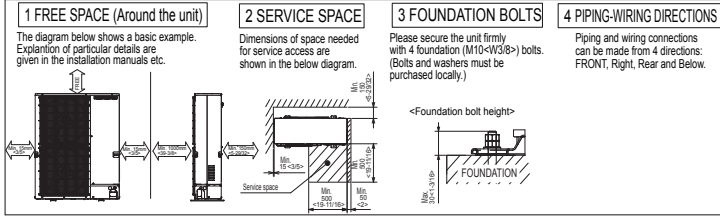
PLA-A42EA7-1218EA303942

MODELS	(1)	(2)	A	B	C	D	E	F
PLA-A1218EA7	REFRIGERANT P686L8 FLARED CONNECTION 1/4"	REFRIGERANT P686L8 FLARED CONNECTION 1/2"	9-1/2 (241)	10-3/16 (258)	3/16	3/16	12-7/16 (316) OR LESS	12-7/16 (316) OR LESS
PLA-A24-42EA7	REFRIGERANT P686L8 FLARED CONNECTION 1/4"	REFRIGERANT P686L8 FLARED CONNECTION 1/2"	11-1/16 (281)	11-3/4 (296)	3/8	3/8	13-3/16 (343) OR LESS	13-3/16 (343) OR LESS



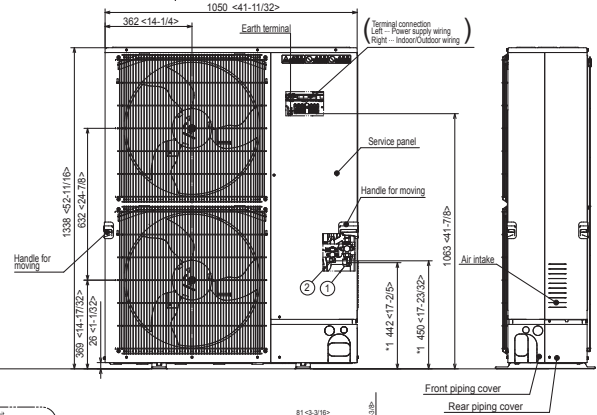
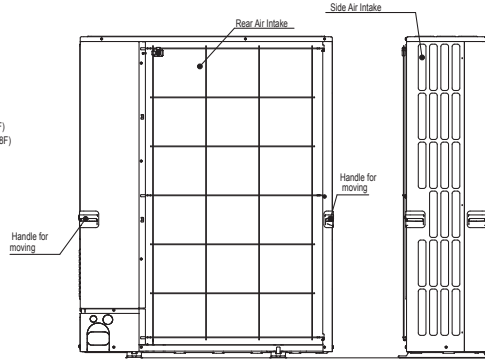
DIMENSIONS: PUY-A42NHA7(-BS)

Unit: mm<in>

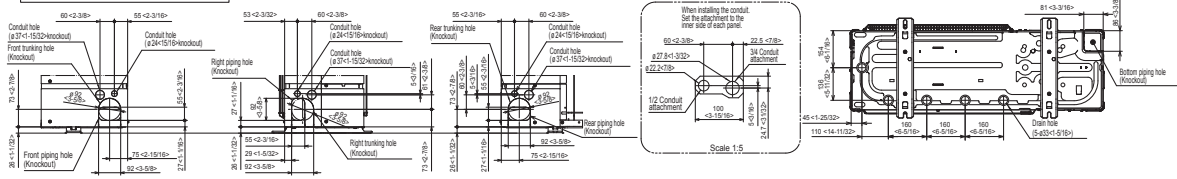


Example of Notes

- ① --- Refrigerant GAS pipe connection (FLARE) ø15.88(5/8F)
② --- Refrigerant LIQUID pipe connection (FLARE) ø9.52(3/8F)
*1 --- Indication of STOP VALVE connection location.



Piping Knockout Hole Details



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