



HELIX ENERGY PARTNERS LLC

CONSULTING ENGINEERS
Mechanical - Plumbing - Controls

HELIX-ENGINEERS.NET

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March 26, 2025

Esteemed Energy Modelers,

Please find within guidance and notes regarding the use of these Mitsubishi energy model objects. We are continually adding more models as the need arises. Should you not find the model you are looking for, please contact us and we would be glad to provide them to you.

Sincerely

Mike Lovejoy, PE

Bookmark Summary

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[Notes to Energy Modeler PUHY_EP120TNUYNU_A1](#)



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Mitsubishi PEFY_P06NMSU-ER2 NDUCTED VRF-TU,!- Name

Energy Modeling Assumptions and Comments

Applicable Field

1	Outdoor air flow is set to autosize. This field may need to be modified for specific conditions. Outdoor airflow coil inlet temperature (based on mixing with return air) should be within the following mitsubishi limits:	I- Outdoor Air Flow Rate During Cooling Operation {m3/s} I- Outdoor Air Flow Rate During Heating Operation {m3/s} I- Outdoor Air Flow Rate When No Cooling or Heating is Needed {m3/s}
	Cooling:	15-24°C / 59-75.2°F (Wet Bulb)
	Heating:	15-27°C / 59-80.6°F (Dry Bulb)
2	Default static pressure is assumed to be maximum of equipment capability and maximum airflow capability. Actual ducting configuration may be less. Consult the design documents, engineer, or testing and balance report for actual pressure.	OS:Fan:SystemModel I- Design Maximum Air Flow Rate {m3/s} I- Design Pressure Rise {Pa}
3	These fields may produce a Warning: "Rated air volume flow rate per watt of rated total cooling capacity is out of range.". This warning is only a guideline put in place by EnergyPlus. AHRI 1230 does not have these limitations on this range of performance.	OS:Coil:Cooling:DX:VariableRefrigerantFlow I- Rated Air Flow Rate {m3/s} I- Rated Total Cooling Capacity {W}
4	These fields may produce a Warning: "Rated air volume flow rate per watt of rated total heating capacity is out of range.". This warning is only a guideline put in place by EnergyPlus. AHRI 1230 does not have these limitations on this range of performance.	OS:Coil:Heating:DX:VariableRefrigerantFlow I- Rated Air Flow Rate {m3/s} I- Rated Total Heating Capacity {W}
5	As of this version, EnergyPlus crashes with speed control set to discrete, so this model uses continuously variable speed instead of discrete speed settings.	I- Speed Control Method

CITYMULTI® Model: **PEFY-P06NMSU-ER2**

Job Name: _____

Schedule Reference: _____ Date: _____



GENERAL FEATURES

- Dual set point functionality
- Multiple fan speed settings
- Auto fan mode
- Built-in condensate lift; lifts to 21-11/16" (550 mm)
- 7-7/8" (200 mm) high for low ceiling heights

OPTIONS

- External Heater Adapter.....CN24RELAY-KIT-CM3
- Filter Box (Includes 1" MERV 8 filter).....FBL1-1
- Bottom Return Adapter Plate.....BRP-1

SPECIFICATIONS

Capacity*

Cooling.....	6,000 Btu/h
Heating.....	6,700 Btu/h

Power

Power Source.....	208 / 230V, 1-phase, 60Hz
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Power Consumption

Cooling.....	0.05 kW
Heating.....	0.03 kW

Current

Cooling (208/230V).....	0.42 / 0.41A
Heating (208/230V).....	0.32 / 0.31A

Minimum Circuit Ampacity (MCA) (208/230V).....0.47 / 0.50 A

Maximum Overcurrent Protection (MOCP) Fuse.....15 A

External Finish.....Galvanized Steel Sheets

External Dimensions

Inches.....	7-7/8 h x 31-1/8 w x 27-9/16 d
mm.....	200 h x 790 w x 700 d

Net Weight.....42 lbs / 19 kg

Coil Type.....CrossFin
(Aluminum Fin and Copper Tube)

Fan

Type x Quantity.....	Sirocco Fan x 2
Airflow Rate (Low - Mid - High).....	176 - 212 - 247 CFM
External Static Pressure.....	0.02 - 0.06 - 0.14 - 0.20 WG
Motor Type.....	DC Motor

Air Filter.....Polypropylene Honeycomb

Refrigerant Piping Dimensions

Liquid (High Pressure).....	1/4" / 6.35 mm Brazed
Gas (Low Pressure).....	1/2" / 12.7 mm Brazed

Drainpipe Dimension.....O.D. 1-1/4" / 32 mm

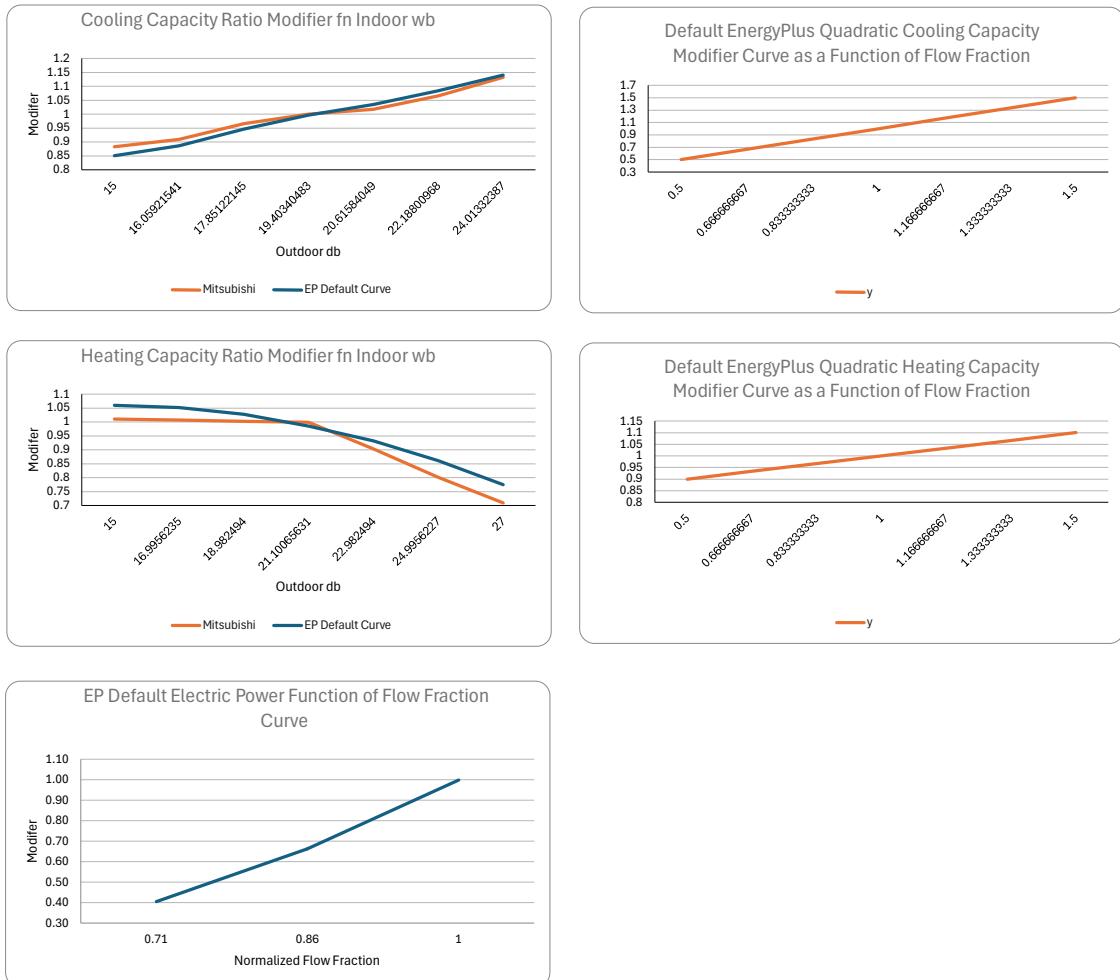
Sound Pressure Levels

Low - Mid - High.....	22 - 24 - 28 dB(A)
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* 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, Outdoor 95° F (35° C) DB
Heating | Indoor: 70° F (21° C) DB, Outdoor 47° F (8° C) DB / 43° F (6° C) WB

Notes:







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Mitsubishi PEFY_P30NMAU-E5 NONDUCTED VRF-TU,!- Name

Energy Modeling Assumptions and Comments

Applicable Field

1	Outdoor air flow is set to autosize. This field may need to be modified for specific conditions.	!- Outdoor Air Flow Rate During Cooling Operation {m3/s}
	Outdoor airflow coil inlet temperature (based on mixing with return air) should be within the following mitsubishi limits:	!- Outdoor Air Flow Rate During Heating Operation {m3/s}
		!- Outdoor Air Flow Rate When No Cooling or Heating is Needed {m3/s}
	Cooling:	15-24°C / 59-75.2°F (Wet Bulb)
	Heating:	15-27°C / 59-80.6°F (Dry Bulb)
2	Default static pressure is assumed to be factory setting of equipment and maximum airflow capability. Actual ducting configuration may be less. Consult the design documents, engineer, or testing and balance report for actual pressure.	OS:Fan:SystemModel !- Design Maximum Air Flow Rate {m3/s} !- Design Pressure Rise {Pa}
3	These fields may produce a Warning: "Rated air volume flow rate per watt of rated total cooling capacity is out of range.". This warning is only a guideline put in place by EnergyPlus. AHRI 1230 does not have these limitations on this range of performance.	OS:Coil:Cooling:DX:VariableRefrigerantFlow !- Rated Air Flow Rate {m3/s} !- Rated Total Cooling Capacity {W}
4	These fields may produce a Warning: "Rated air volume flow rate per watt of rated total heating capacity is out of range.". This warning is only a guideline put in place by EnergyPlus. AHRI 1230 does not have these limitations on this range of performance.	OS:Coil:Heating:DX:VariableRefrigerantFlow !- Rated Air Flow Rate {m3/s} !- Rated Total Heating Capacity {W}
5	As of this version, EnergyPlus crashes with speed control set to discrete, so this model uses continuously variable speed instead of discrete speed settings.	!- Speed Control Method


PEFY-P30NMAU-E5
 30,000 BTU/H MEDIUM STATIC DUCTED
 

Job Name: _____ Date: _____
 System Reference: _____



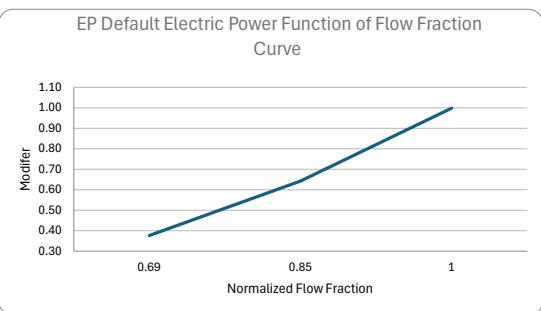
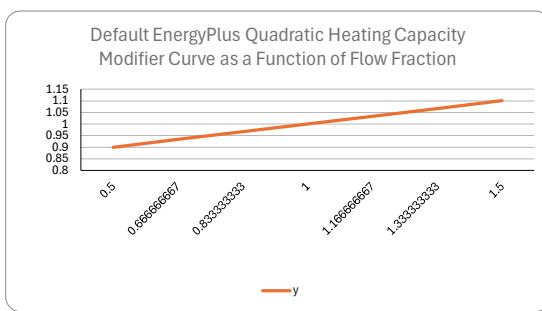
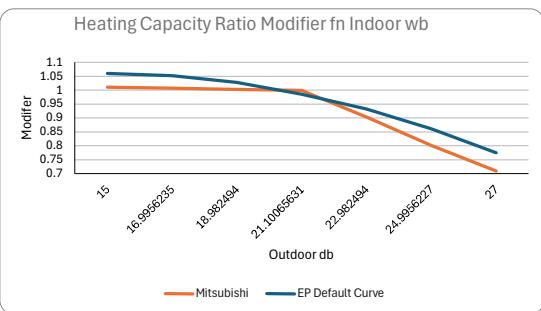
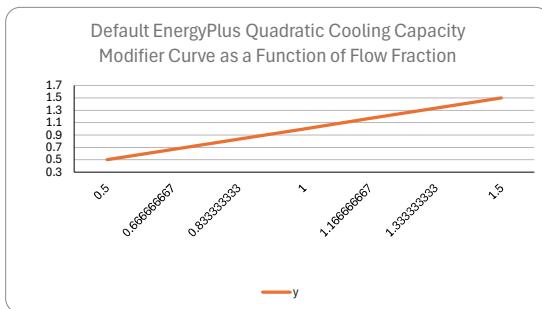
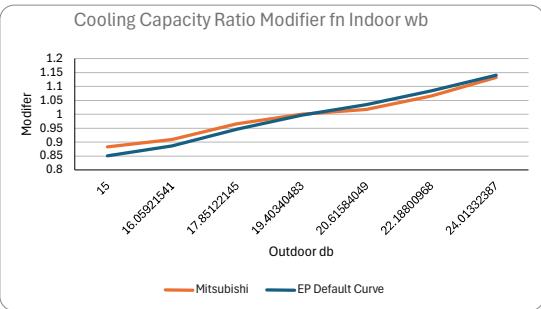
- GENERAL FEATURES**
- Dual set point functionality
 - Multiple fan speed settings
 - Auto fan mode
 - 9-7/8" (250mm) high for low ceiling heights
 - Built-in condensate lift; lifts to 27-9/16" (700 mm)
 - Ducted fan coil supporting multiple configurations for flexible installation

Specifications		System	
Unit Type		PEFY-P30NMAU-E5	
Cooling capacity (Nominal) ¹	BTU/H	30,000	
Heating capacity (Nominal) ²	BTU/H	34,000	
Power source	Voltage, Phase, Hertz	208/230V, 1-phase, 60 Hz	
Power Consumption	kW	0.222	
Cooling	kW	0.22	
Heating	A	2.01/1.82	
Current	A	2.01/1.82	
MCA	A	4.25	
Maximum Overcurrent Protection (MOPC)	A	15	
External finish		Galvanized steel sheet	
External Dimensions	In. [mm]	55-1/8 x 26-7/8 x 9-7/8 [1,400 x 732 x 250]	
Net weight	Lbs [kg]	64 [38]	
Heat exchanger		Cross fin (Aluminum fin and copper tube)	
		Sirocco fan x 3	
Fan	Type x quantity	PP Honeycomb fabric	
	External Static pressure	R410A	
	in.WG		
	CFM	0.14, 0.2, 0.28, 0.4, 0.6	
		factory set to 0.2 in. WG	
		883-1.077-1.271	
	Airflow rate	DC Motor	
	Motor type	0.3	
	Motor Output	3.4	
	Motor FLA	35-39-43	
Sound pressure level (Measured in anechoic room)	dBA		
Air filter		PP Honeycomb fabric	
Refrigerant	Type	R410A	
	Liquid (High Pressure)		
Diameter of refrigerant pipe (O.D.)	In. [mm]	3/8 [9.52] Braze	
	Gas (Low Pressure)		
	In. [mm]	5/8 [15.88] Braze	
Diameter of drain pipe	In. [mm]	O.D. 1-1/4 [32]	

NOTES

Cooling | Indoor: 81° F (27° C) DB / 66° F (19°C) WB; Outdoor: 95° F (35° C) DB

Heating | Indoor: 68° F (20° C) DB; Outdoor: 45° F (7° C) DB / 43° F (6° C) WB





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Mitsubishi PKFY-P30NKMU-E2R1_TH NDUCTED VRF-TU,- Name

Energy Modeling Assumptions and Comments

Applicable Field

1	Outdoor air flow is set to 0. There are not connections for outdoor/ventilation air. Keep in mind coil inlet (return air) temperature should be within the following mitsubishi limits:	I- Outdoor Air Flow Rate During Cooling Operation {m3/s} I- Outdoor Air Flow Rate During Heating Operation {m3/s} I- Outdoor Air Flow Rate When No Cooling or Heating is Needed {m3/s}
	Cooling	15-24°C / 59-75.2°F (Wet Bulb)
	Heating	15-27°C / 59-80.6°F (Dry Bulb)
2	These fields may produce a Warning: "Rated air volume flow rate per watt of rated total cooling capacity is out of range.". This warning is only a guideline put in place by EnergyPlus. AHRI 1230 does not have these limitations on this range of performance.	OS:Coil:Cooling:DX:VariableRefrigerantFlow I- Rated Air Flow Rate {m3/s} I- Rated Total Cooling Capacity {W}
3	These fields may produce a Warning: "Rated air volume flow rate per watt of rated total heating capacity is out of range.". This warning is only a guideline put in place by EnergyPlus. AHRI 1230 does not have these limitations on this range of performance.	OS:Coil:Heating:DX:VariableRefrigerantFlow I- Rated Air Flow Rate {m3/s} I- Rated Total Heating Capacity {W}
4	As of this version, EnergyPlus crashes with speed control set to discrete, so this model uses continuously variable speed instead of discrete speed settings.	I- Speed Control Method

CITYMULTI®

PKFY-P30NKMU-E2R1.TH
30,000 BTU/H WALL MOUNT



Job Name:

System Reference:

Date:

GENERAL FEATURES



- Dual set point functionality
- Compact, lightweight, flat-white, flat-panel, modern design
- Quiet operation
- Multiple fan speed settings
- Easily removed intake grille filter for cleaning
- Back and right-side wiring take-out
- Wireless receiver on board

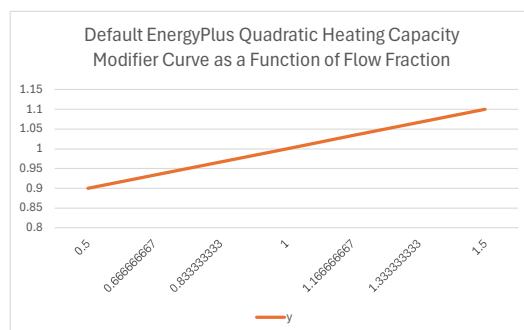
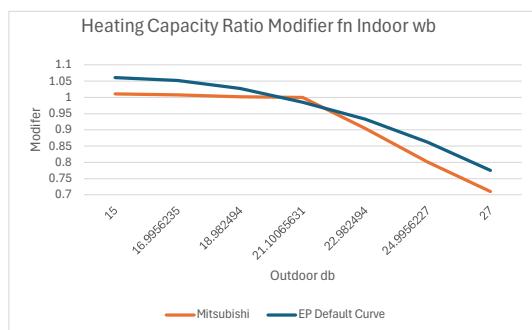
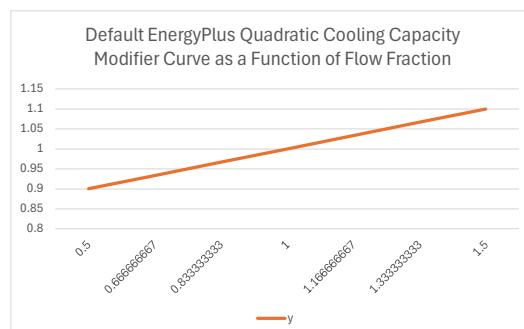
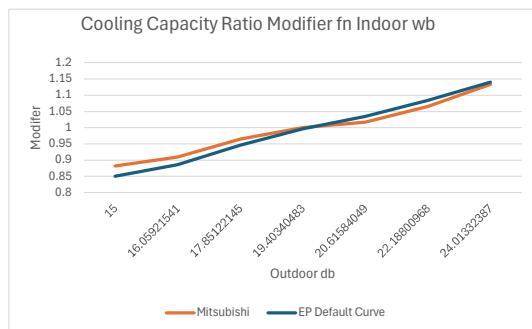
Specifications		System	
Unit Type		PKFY-P30NKMU-E2R1.TH	
Cooling capacity (Nominal) ¹	BTU/H	30,000	
Heating capacity (Nominal) ¹	BTU/H	34,000	
Power source	Voltage, Phase, Hertz	208/230V, 1-phase, 60 Hz	
Power Consumption	kW	0.07	
	kW	0.07	
Current	A	0.5	
	A	0.5	
MCA	A	0.63	
Maximum Overcurrent Protection (MOCP)	A	15	
External finish	Plastic, MUNSELL (1.0Y 9.2/0.2)		
External Dimensions	In. [mm]	46-1/16 x 11-5/8 x 14-3/8 [1,170 x 295 x 365]	
Net weight	Lbs [kg]	46 [21]	
Heat exchanger	Cross fin (Aluminum fin and copper tube)		
Fan	Type x quantity	Line flow fan x 1	
	Airflow rate	710-850	
	Motor type	DC motor	
	Motor Output	kW	.056
Sound pressure level (Measured in anechoic room)	dB(A)	43-49	
Air filter	PP honeycomb		
Refrigerant	Type	R410A	
Diameter of refrigerant pipe (O.D.)	Liquid (High Pressure)	In. [mm]	3/8 [9.52] Flare
	Gas (Low Pressure)	In. [mm]	5/8 [15.88] Flare
Diameter of drain pipe		In. [mm]	I.D. 5/8 [16]

NOTES:

Cooling | Indoor: 81° F (27° C) DB / 68° F (19°C) WB; Outdoor 95° F (35° C) DB
Heating | Indoor: 68° F (20° C) DB; Outdoor 45° F (7° C) DB / 43° F (6° C) WB

Specifications are subject to change without notice.

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Mitsubishi PLFY_P05NFMU_ER1_TH NDUCTED VRF-TU, - Name

Energy Modeling Assumptions and Comments

Applicable Field

1	Outdoor air flow is set to autosize. This field may need to be modified for specific conditions. Outdoor airflow coil inlet temperature (based on mixing with return air) should be within the following mitsubishi limits:	I- Outdoor Air Flow Rate During Cooling Operation {m3/s} I- Outdoor Air Flow Rate During Heating Operation {m3/s} I- Outdoor Air Flow Rate When No Cooling or Heating is Needed {m3/s}
	Cooling:	15-24°C / 59-75.2°F (Wet Bulb)
	Heating:	15-27°C / 59-80.6°F (Dry Bulb)
2	Default static pressure accounts for internal losses only (250Pa). Additional pressure drop may be required if the cassette is connected to outside air ducting. This will also inversely affect supply airflow.	OS:Fan:SystemModel I- Design Maximum Air Flow Rate {m3/s} I- Design Pressure Rise {Pa}
3	These fields may produce a Warning: "Rated air volume flow rate per watt of rated total heating capacity is out of range.". This warning is only a guideline put in place by EnergyPlus. AHRI 1230 does not have these limitations on this range of performance.	OS:Coil:Heating:DX:VariableRefrigerantFlow I- Rated Air Flow Rate {m3/s} I- Rated Total Heating Capacity {W}

CITYMULTI® PLFY-P05NFMU-ER1.TH 5,000 BTU/H 22" X 22" 4-WAY CEILING CASSETTE



Job Name:
System Reference:

Date:



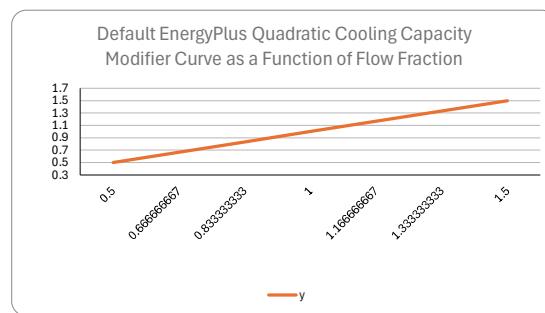
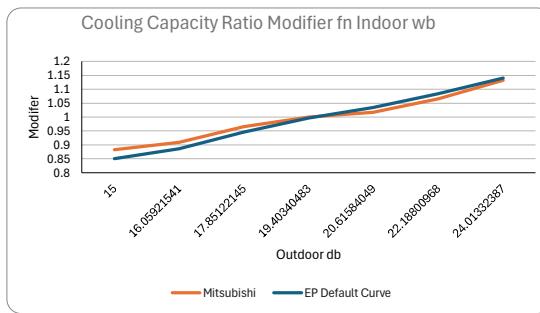
GENERAL FEATURES

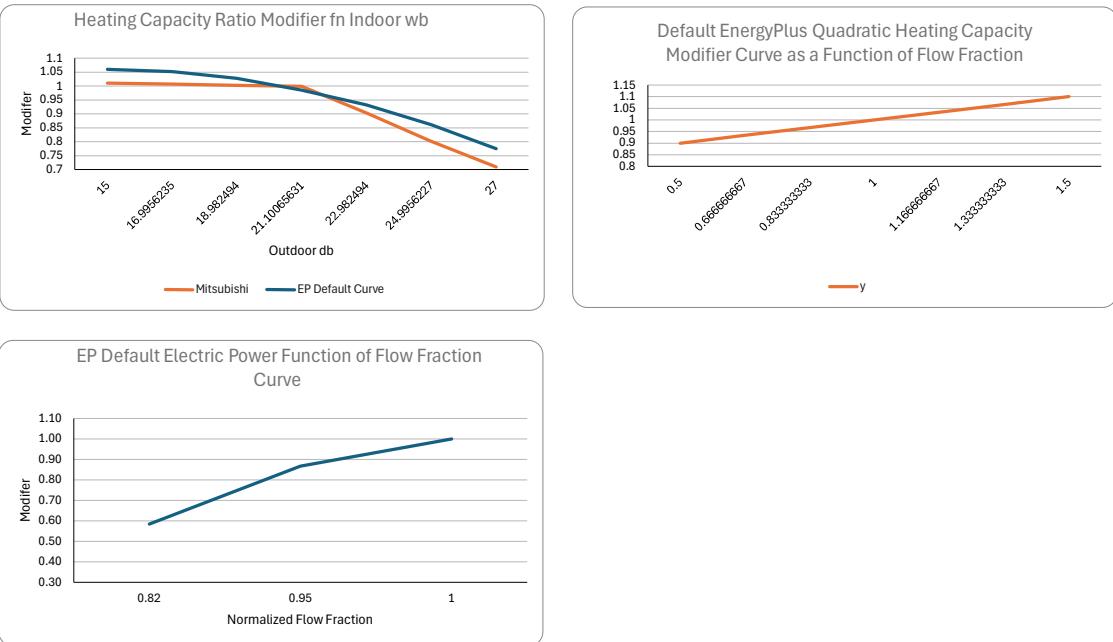
- Square edge, sleek design
- 3D-see Sensor™ available as an option
- Improved installation features*
- Occupancy detection*
- Energy saving features*
- Improved occupant comfort
- Four fan speed settings including auto-fan
- Individual vane settings
- 2' x 2' size matches size of many ceiling tiles
- Corner-pocket design for simplified installation
- Built-in condensate lift mechanism designed to provide up to 33' of lift
- Ventilation air intake supported

*Requires a PAR-41MAAU controller

Specifications Unit Type	System	
	PLFY-P05NFMU-ER1.TH	
Cooling capacity (Nominal)*	BTU/H	5,000
Heating capacity (Nominal)*	BTU/H	5,600
Power source	Voltage, Phase, Hertz	208/230V, 1-phase, 60 Hz
Power Consumption	kW	0.12
	kWh	0.03
Cooling	A	0.19
Heating	A	0.14
Current	A	0.24
Heating	A	0.15
MCA		
Maximum Overcurrent Protection (MOCP)		
External finish		Galvanized steel sheet
External Dimensions	In. [mm]	22-7/16 x 22-7/16 x 8-1/2 [570 x 570 x 208]
Net weight	Lbs [kg]	13.1 [6.0]
Heat exchanger		Cross fin (Aluminum fin and copper tube)
Fan	Type x quantity	Turbo fan x 1
	Airflow rate	230-265-280 CFM
	Motor type	DC motor
	Motor Output	kW
	Motor FLA	0.05
		0.19
Sound pressure level (Measured in anechoic room)	dBA(A)	26-28-30
Air filter		PP honeycomb (long life type)
Refrigerant	Type	R410A
Diameter of refrigerant pipe (O.D.)	Liquid (High Pressure)	In. [mm]
	Gas (Low Pressure)	1/4 [6.35] Flare
Diameter of drain pipe	In. [mm]	1/2 [12.7] Flare
	In. [mm]	O.D. 1-1/4 [32]

NOTES:
Cooling | Indoor: 81° F (27° C) DB / 68° F (19° C) WB; Outdoor: 95° F (35° C) DB
Heating | Indoor: 68° F (20° C) DB; Outdoor: 45° F (7° C) DB / 43° F (6° C) WB







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Mitsubishi PLFY_P08NFMU_ER1_TH NDUCTED VRF-TU,!- Name

Energy Modeling Assumptions and Comments

Applicable Field

1	Outdoor air flow is set to autosize. This field may need to be modified for specific conditions. Outdoor airflow coil inlet temperature (based on mixing with return air) should be within the following mitsubishi limits:	I- Outdoor Air Flow Rate During Cooling Operation {m³/s} I- Outdoor Air Flow Rate During Heating Operation {m³/s} I- Outdoor Air Flow Rate When No Cooling or Heating is Needed {m³/s}
	Cooling:	15-24°C / 59-75.2°F (Wet Bulb)
	Heating:	15-27°C / 59-80.6°F (Dry Bulb)
2	Default static pressure accounts for internal losses only (250Pa). Additional pressure drop may be required if the cassette is connected to outside air ducting. This will also inversely affect supply airflow.	OS:Fan:SystemModel I- Design Maximum Air Flow Rate {m³/s} I- Design Pressure Rise {Pa}
3	These fields may produce a Warning: "Rated air volume flow rate per watt of rated total heating capacity is out of range.". This warning is only a guideline put in place by EnergyPlus. AHRI 1230 does not have these limitations on this range of performance.	OS:Coil:Heating:DX:VariableRefrigerantFlow I- Rated Air Flow Rate {m³/s} I- Rated Total Heating Capacity {W}

CITYMULTI® PLFY-P08NFMU-ER1.TH 8,000 BTU/H 22" X 22" 4-WAY CEILING CASSETTE



Job Name:
System Reference:

Date:

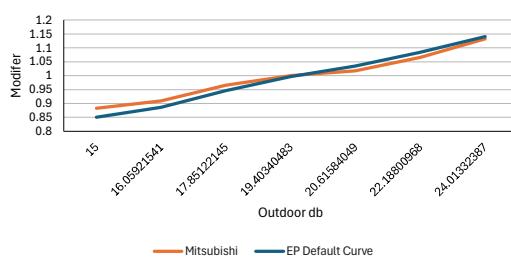


- GENERAL FEATURES**
- Square edge, sleek design
 - 3D i-sensor™ available as an option
 - Improved installation features*
 - Occupancy detection*
 - Energy saving features*
 - Improved occupant comfort
 - Four fan speed settings including auto-fan
 - Individual vane settings
 - 2' x 2' size matches size of many ceiling tiles
 - Corner-pocket design for simplified installation
 - Built-in condensate lift mechanism designed to provide up to 33° of lift
 - Ventilation air intake supported
- *Requires a PAR-41MAAU controller

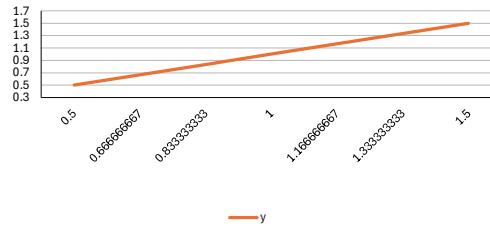
Specifications		System
Unit Type		PLFY-P08NFMU-ER1.TH
Cooling capacity (Nominal)*	BTU/H	8,000
Heating capacity (Nominal)*	BTU/H	9,000
Power source	Voltage, Phase, Hertz	208/230V, 1-phase, 60 Hz
Power Consumption	kW	0.02
	kW	0.02
Current	A	.22
Cooling	A	0.17
Heating	A	0.28
MCA	A	15
Maximum Overcurrent Protection (MOPC)		Galvanized steel sheet
External finish	In. [mm]	22-7/16 x 22-7/16 x 8-3/16 [570 x 570 x 208]
External Dimensions	Lbs [kg]	28.9 [13.1]
Net weight		Cross fin (Aluminum fin and copper tube)
Heat exchanger	Type x quantity	Turbo fan x 1
	Airflow rate	230-280-315
Fan	CFM	DC motor
	Motor type	0.05
	Motor Output	0.22
	Motor FLA	26-30-33
Sound pressure level (Measured in anechoic room)	dBi(A)	PP honeycomb fabric (long life type)
Air filter		R410A
Refrigerant	Type	
Diameter of refrigerant pipe (O.D.)	Liquid (High Pressure)	1/4 [6.35] Flare
	Gas (Low Pressure)	1/2 [12.7] Flare
Diameter of drain pipe	In. [mm]	O.D. 1-1/4 [32]

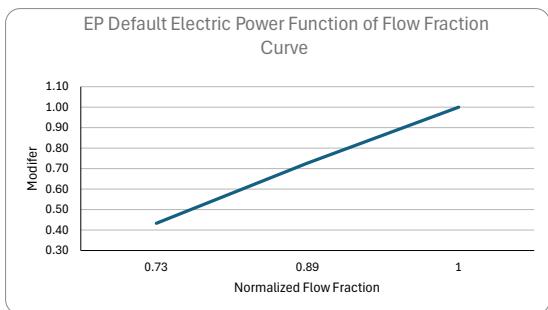
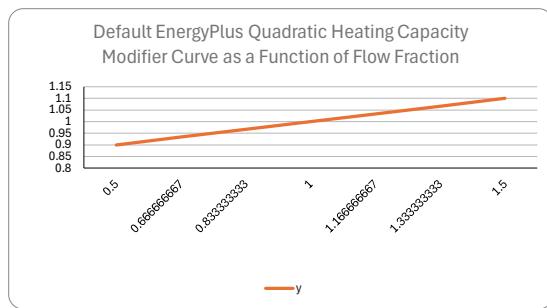
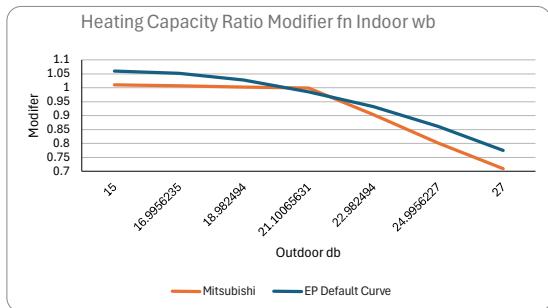
NOTES:
Cooling | Indoor: 81°F (27°C) DB / 68°F (19°C) WB; Outdoor 95°F (35°C) DB
Heating | Indoor: 68°F (20°C) DB; Outdoor 45°F (7°C) DB / 43°F (6°C) WB

Cooling Capacity Ratio Modifier fn Indoor wb



Default EnergyPlus Quadratic Cooling Capacity Modifier Curve as a Function of Flow Fraction







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Mitsubishi PLFY_P12NFMU_ER1_TH NDUCTED VRF-TU,!- Name

Energy Modeling Assumptions and Comments

Applicable Field

1	Outdoor air flow is set to autosize. This field may need to be modified for specific conditions. Outdoor airflow coil inlet temperature (based on mixing with return air) should be within the following mitsubishi limits:	I- Outdoor Air Flow Rate During Cooling Operation {m3/s}
		I- Outdoor Air Flow Rate During Heating Operation {m3/s}
	Cooling:	I- Outdoor Air Flow Rate When No Cooling or Heating is Needed {m3/s}
	Heating:	15-24°C / 59-75.2°F (Wet Bulb)
2	Default static pressure accounts for internal losses only (250Pa). Additional pressure drop may be required if the cassette is connected to outside air ducting. This will also inversely affect supply airflow.	OS:Fan:SystemModel I- Design Maximum Air Flow Rate {m3/s} I- Design Pressure Rise {Pa}
3	These fields may produce a Warning: "Rated air volume flow rate per watt of rated total heating capacity is out of range". This warning is only a guideline put in place by EnergyPlus. AHRI 1230 does not have these limitations on this range of performance.	OS:Cool:Heating:DX:VariableRefrigerantFlow I- Rated Air Flow Rate {m3/s} I- Rated Total Heating Capacity {W}



Job Name:	Date:
System Reference:	



GENERAL FEATURES

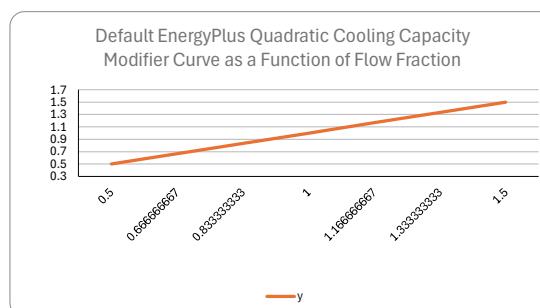
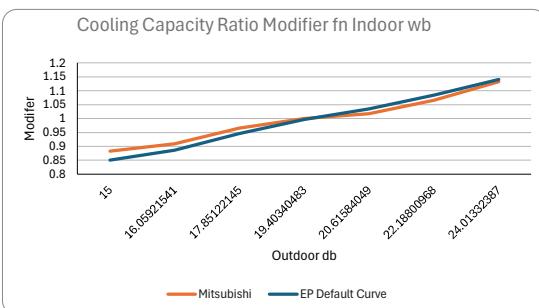
- Square edge, sleek design
- 3D i-see Sensor™ available as an option
- Improved installation features*
- Occupancy detection*
- Energy saving features*
- Improved occupant comfort
- Four fan speed settings including auto-fan
- Individual vane settings
- 2' x 2' size matches size of many ceiling tiles
- Corner-pocket design for simplified installation
- Built-in condensate lift mechanism designed to provide up to 33" of lift
- Ventilation air intake supported

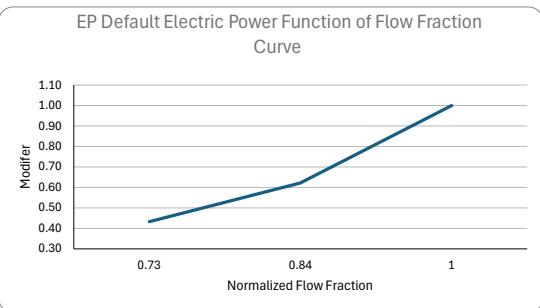
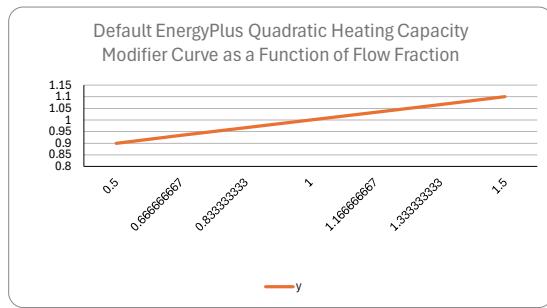
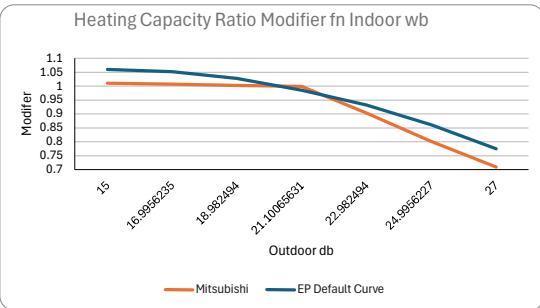
*Requires a PAR-41MAAU controller

Specifications		System	
Unit Type		PLFY-P12NFMU-ER1.TH	
Cooling capacity (Nominal)*	BTU/H	12,000	
Heating capacity (Nominal)*	BTU/H	13,500	
Power source	Voltage, Phase, Hertz	208/230V, 1-phase, 60 Hz	
Power Consumption	kW	0.02	
Cooling	kW	0.02	
Heating	A	0.23	
Current	A	0.18	
Heating	A	0.29	
MCA	A	15	
Maximum Overcurrent Protection (MOCP)			Galvanized steel sheet
External finish			22-7/16 x 22-7/16 x 8-3/16 [570 x 570 x 208]
External Dimensions	In. [mm]		
Net weight	Lbs [kg]	31.3 [14.2]	
Heat exchanger			Cross fin (Aluminum fin and copper tube)
Fan	Type x quantity		Turbo fan x 1
	Airflow rate	CFM	245-280-335
	Motor type		DC motor
	Motor Output	kW	0.05
	Motor FLA	A	0.23
Sound pressure level (Measured in anechoic room)	dBA	26-30-34	
Air filter			PP honeycomb fabric (long life type)
Refrigerant	Type		R410A
Diameter of refrigerant pipe (O.D.)	Liquid (High Pressure)	In. [mm]	1/4 [6.35] Flare
	Gas (Low Pressure)	In. [mm]	1/2 [12.7] Flare
Diameter of drain pipe		In. [mm]	O.D. 1-1/4 [32]

NOTES:

Cooling | Indoor: 81° F (27° C) DB / 68° F (19° C) WB; Outdoor 95° F (35° C) DB
Heating | Indoor: 68° F (20° C) DB; Outdoor 45° F (7° C) DB / 43° F (6° C) WB







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Mitsubishi PLFY_P15NFMU_ER1_TH NDUCTED VRF-TU,!- Name

Energy Modeling Assumptions and Comments

Applicable Field

1	Outdoor air flow is set to autosize. This field may need to be modified for specific conditions. Outdoor airflow coil inlet temperature (based on mixing with return air) should be within the following mitsubishi limits:	I- Outdoor Air Flow Rate During Cooling Operation {m3/s} I- Outdoor Air Flow Rate During Heating Operation {m3/s} I- Outdoor Air Flow Rate When No Cooling or Heating is Needed {m3/s}
	Cooling:	15-24°C / 59-75.2°F (Wet Bulb)
	Heating:	15-27°C / 59-80.6°F (Dry Bulb)
2	Default static pressure accounts for internal losses only (250Pa). Additional pressure drop may be required if the cassette is connected to outside air ducting. This will also inversely affect supply airflow.	OS:Fan:SystemModel I- Design Maximum Air Flow Rate {m3/s} I- Design Pressure Rise {Pa}
3	These fields may produce a Warning: "Rated air volume flow rate per watt of rated total heating capacity is out of range.". This warning is only a guideline put in place by EnergyPlus. AHRI 1230 does not have these limitations on this range of performance.	OS:Coil:Heating:DX:VariableRefrigerantFlow I- Rated Air Flow Rate {m3/s} I- Rated Total Heating Capacity {W}

CITYMULTI® PLFY-P15NFMU-ER1.TH 15,000 BTU/H 22" X 22" 4-WAY CEILING CASSETTE



Job Name:

System Reference:

Date:



GENERAL FEATURES

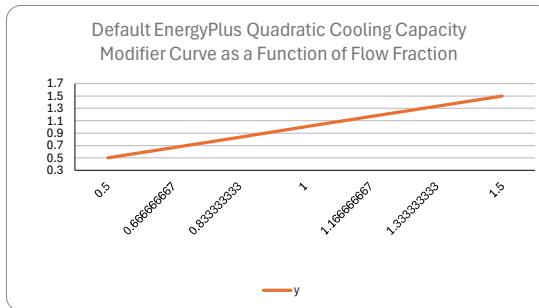
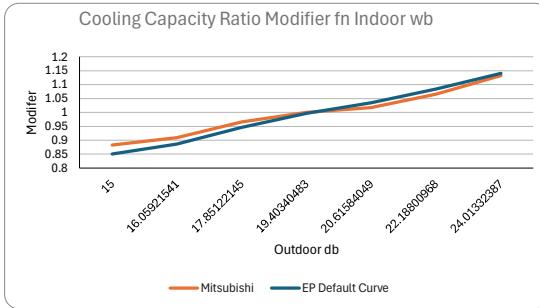
- Square edge, sleek design
- 3D i-sensor™ available as an option
- Improved installation features*
- Occupancy detection*
- Energy saving features*
- Improved occupant comfort
- Four fan speed settings including auto-fan
- Individual vane settings
- 2' x 2' size matches size of many ceiling tiles
- Corner-pocket design for simplified installation
- Built-in condensate lift mechanism designed to provide up to 33° of lift
- Ventilation air intake supported
- Requires a PAR-41MAAU controller

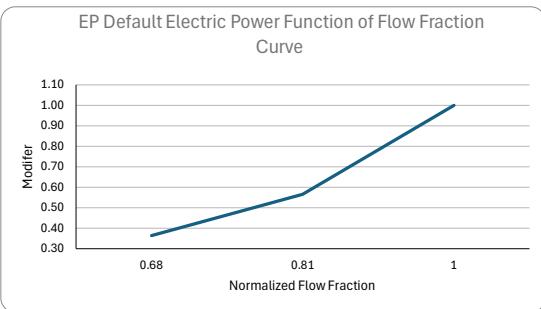
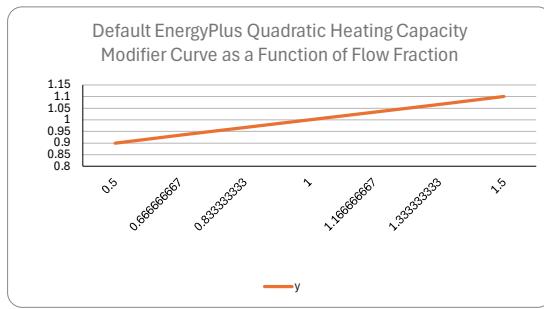
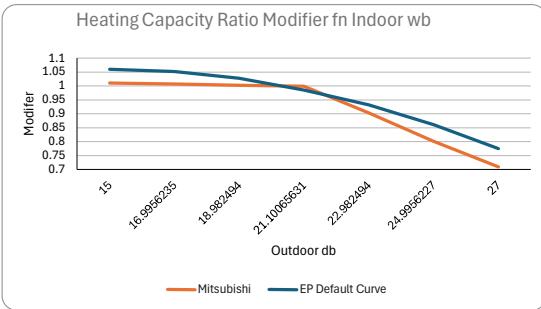
Specifications		System	
Unit Type		PLFY-P15NFMU-ER1.TH	
Cooling capacity (Nominal) ¹	BTU/H	15,000	
Heating capacity (Nominal) ¹	BTU/H	17,000	
Power source	Voltage, Phase, Hertz	208/230V, 1-phase, 60 Hz	
Power Consumption	kW	0.03	
Current	kW	0.03	
Cooling	A	0.28	
Heating	A	0.23	
MCA	A	0.35	
Maximum Overcurrent Protection (MOPC)	A	15	
External finish		Galvanized steel sheet	
External Dimensions	In. [mm]	22-7/16 x 22-7/16 x 8-3/16 [570 x 570 x 206]	
Net weight	Lbs [kg]	31.3 [14.2]	
Heat exchanger		Cross fin (Aluminum fin and copper tube)	
Fan	Type x quantity	Turbo fan x 1	
	Airflow rate	265-315-390	
	Motor type	DC motor	
	Motor Output	kW	0.05
	Motor FLA	A	0.28
Sound pressure level (Measured in anechoic room)	dBi(A)	28-33-39	
Air filter		PP honeycomb fabric (long life type)	
Refrigerant	Type	R410A	
Diameter of refrigerant pipe (O.D.)	Liquid (High Pressure)	In. [mm]	1/4 [6.35] Flare
	Gas (Low Pressure)	In. [mm]	1/2 [12.7] Flare
Diameter of drain pipe		In. [mm]	O.D. 1-1/4 [32]

NOTES:

Cooling | Indoor: 81° F (27° C) DB / 68° F (19°C) WB; Outdoor 95° F (35° C) DB

Heating | Indoor: 68° F (20° C) DB; Outdoor 45° F (7° C) DB / 43° F (6° C) WB







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Mitsubishi PLFY_P18NFMU_ER1_TH NDUCTED VRF-TU,!- Name

Energy Modeling Assumptions and Comments

Applicable Field

1	Outdoor air flow is set to autosize. This field may need to be modified for specific conditions. Outdoor airflow coil inlet temperature (based on mixing with return air) should be within the following mitsubishi limits:	I- Outdoor Air Flow Rate During Cooling Operation {m3/s} I- Outdoor Air Flow Rate During Heating Operation {m3/s} I- Outdoor Air Flow Rate When No Cooling or Heating is Needed {m3/s}
	Cooling:	15-24°C / 59-75.2°F (Wet Bulb)
	Heating:	15-27°C / 59-80.6°F (Dry Bulb)
2	Default static pressure accounts for internal losses only (250Pa). Additional pressure drop may be required if the cassette is connected to outside air ducting. This will also inversely affect supply airflow.	OS:Fan:SystemModel I- Design Maximum Air Flow Rate {m3/s} I- Design Pressure Rise {Pa}
3	These fields may produce a Warning: "Rated air volume flow rate per watt of rated total heating capacity is out of range.". This warning is only a guideline put in place by EnergyPlus. AHRI 1230 does not have these limitations on this range of performance.	OS:Coil:Heating:DX:VariableRefrigerantFlow I- Rated Air Flow Rate {m3/s} I- Rated Total Heating Capacity {W}



Job Name:

System Reference:

Date:



GENERAL FEATURES

- Square edge, sleek design
- 3D i-see Sensor™ available as an option
- Improved installation features*
- Occupancy detection*
- Energy saving features*
- Improved occupant comfort
- Four fan speed settings including auto-fan
- Individual vane settings
- 2' x 2' size matches size of many ceiling tiles
- Corner-pocket design for simplified installation
- Built-in condensate lift mechanism designed to provide up to 33° of lift
- Ventilation air intake supported
- Requires a PAR-41MAAU controller

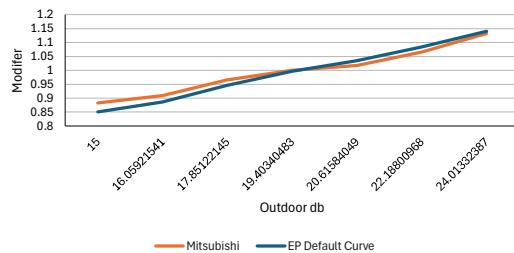
Specifications	Unit Type	System
Cooling capacity (Nominal)*	BTU/H	18,000
Heating capacity (Nominal)*	BTU/H	20,000
Power source	Voltage, Phase, Hertz	208/230V, 1-phase, 60 Hz
Power Consumption	kW	0.04
Current	kW	0.04
	A	0.4
MCA	A	0.35
Maximum Overcurrent Protection (MOCP)	A	0.5
External finish		Galvanized steel sheet
External Dimensions	In. [mm]	22-7/16 x 22-7/16 x 8-3/16 [570 x 570 x 208]
Net weight	Lbs [kg]	31.3 [14.2]
Heat exchanger		Cross fin (Aluminum fin and copper tube)
Fan	Type x quantity	Turbo fan x 1
	Airflow rate	315-390-460 CFM
	Motor type	DC motor
	Motor Output	kW
	Motor FLA	A
Sound pressure level (Measured in anechoic room)	dB(A)	33-39-43
Air filter		PP honeycomb fabric (long life type)
Refrigerant	Type	R410A
Diameter of refrigerant pipe (O.D.)	Liquid (High Pressure)	In. [mm]
	Gas (Low Pressure)	In. [mm]
Diameter of drain pipe		O. D. 1-1/4 [32]

NOTES:

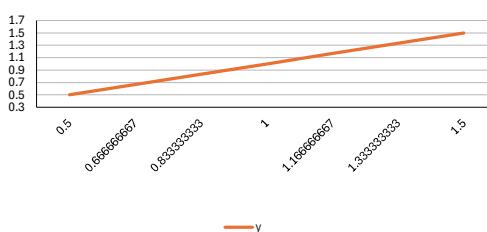
Cooling | Indoor: 81° F (27° C) DB / 66° F (19°C) WB; Outdoor 95° F (35° C) DB

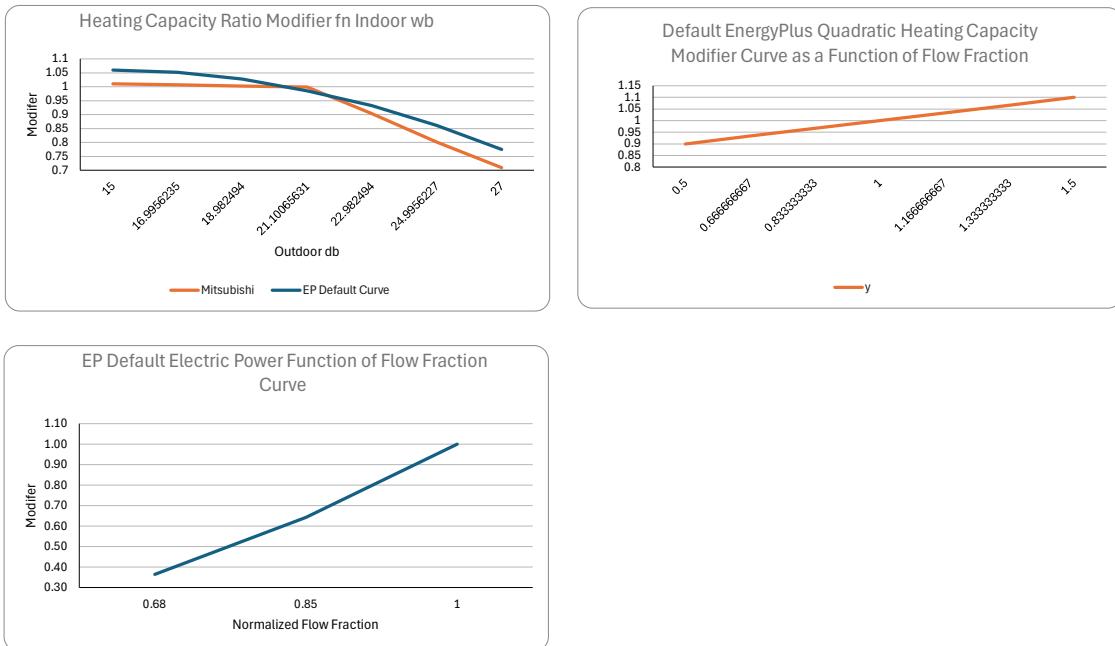
Heating | Indoor: 68° F (20° C) DB; Outdoor 45° F (7° C) DB / 43° F (6° C) WB

Cooling Capacity Ratio Modifier fn Indoor wb



Default EnergyPlus Quadratic Cooling Capacity Modifier Curve as a Function of Flow Fraction







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Mitsubishi PLFY_EP06NEMU1-E TH NDUCTED VRF-TU,- Name

Energy Modeling Assumptions and Comments

Applicable Field

1	Outdoor air flow is set to autosize. This field may need to be modified for specific conditions. Outdoor airflow coil inlet temperature (based on mixing with return air) should be within the following mitsubishi limits:	I- Outdoor Air Flow Rate During Cooling Operation {m3/s} I- Outdoor Air Flow Rate During Heating Operation {m3/s} I- Outdoor Air Flow Rate When No Cooling or Heating is Needed {m3/s}
	Cooling:	15-24°C / 59-75.2°F (Wet Bulb)
	Heating:	15-27°C / 59-80.6°F (Dry Bulb)
2	Default static pressure accounts for internal losses only (250Pa). Additional pressure drop may be required if the cassette is connected to outside air ducting. This will also inversely affect supply airflow.	OS:Fan:SystemModel I- Design Maximum Air Flow Rate {m3/s} I- Design Pressure Rise {Pa}
3	These fields may produce a Warning: "Rated air volume flow rate per watt of rated total heating capacity is out of range". This warning is only a guideline put in place by EnergyPlus. AHRI 1230 does not have these limitations on this range of performance.	OS:Coil:Heating:DX:VariableRefrigerantFlow I- Rated Air Flow Rate {m3/s} I- Rated Total Heating Capacity {W}

PLFY-EP06NEMU1-E.TH 6,000 BTU/H 33" X 33" 4-WAY CEILING CASSETTE



Job Name:	Date:
System Reference:	

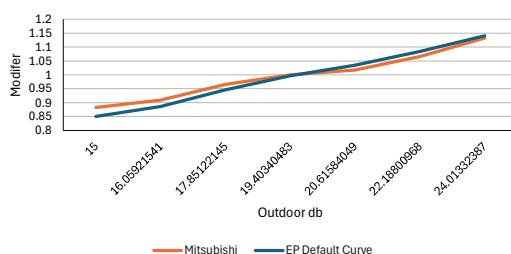


- GENERAL FEATURES**
- Square edge, sleek design
 - 3D turbo fan enabling increased airflow
 - Built-in 3D i-see Sensor*
 - Improved installation features*
 - Occupancy detection*
 - Energy saving features*
 - Improved occupant comfort
 - Four fan speed settings including auto-fan
 - Corner pocket design for simplified installation
 - Built-in condensate lift mechanism designed to provide up to 33-7/16" of lift
 - Ventilation air intake supported
- *3D i-See sensor® settings requires the PAR-41MAAU controller

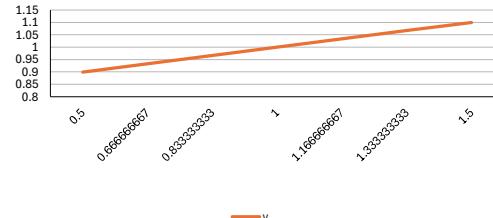
Specifications Unit Type	System
Cooling capacity (Nominal)*	BTU/H 6,000
Heating capacity (Nominal)*	BTU/H 6,700
Power source	Voltage, Phase, Hertz 208/230V, 1-phase, 60 Hz
Power Consumption	kW 0.02
	kW 0.02
Current	A 0.12
Cooling	A 0.1
Heating	A 0.24
MCA	A 15
Maximum Overcurrent Protection (MOCP)	Galvanized steel sheet
External finish	
External Dimensions	In [mm] 33-3/32 x 33-3/32 x 10-3/16 (840 x 840 x 258)
Net weight	Lbs [kg] 46 [21]
Heat exchanger	Cross fin (Aluminum fin and copper tube)
Fan	Turbo fan x 1
Type x quantity	CFM 300-424-459-494
Airflow rate	DC motor
Motor type	kW 0.05
Motor Output	A 0.19
Motor FLA	dBA 19-23-27
Sound pressure level (Measured in anechoic room)	PP honeycomb (long life filter, anti-bacterial type)
Air filter	R410A
Refrigerant	Type
Diameter of refrigerant pipe (O.D.)	Liquid (High Pressure) In. [mm] 1/4 (6.35) Flare
Diameter of drain pipe	Gas (Low Pressure) In. [mm] 1/2 (12.7) Flare
	In. [mm] O.D. 1-1/4 (32)

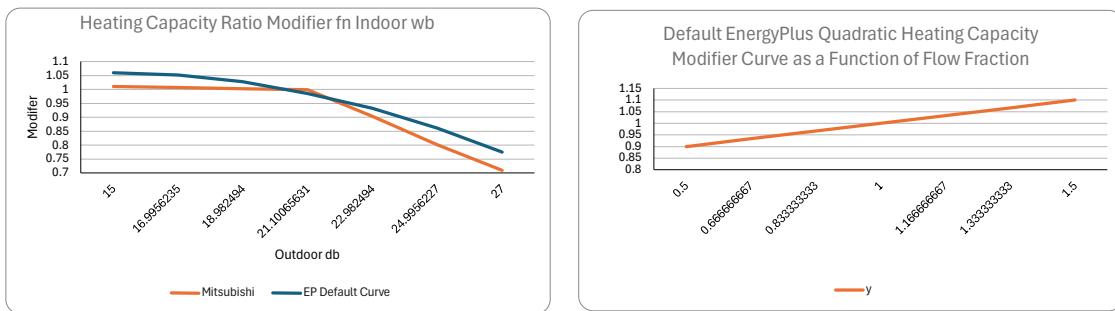
NOTES:
Cooling | Indoor: 81°F (27°C) DB / 66°F (19°C) WB; Outdoor 95°F (35°C) DB
Heating | Indoor: 68°F (20°C) DB; Outdoor 45°F (7°C) DB / 43°F (6°C) WB

Cooling Capacity Ratio Modifier fn Indoor wb



Default EnergyPlus Quadratic Cooling Capacity Modifier Curve as a Function of Flow Fraction







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Mitsubishi PLFY_EP08NEMU1-E TH NDUCTED VRF-TU,!- Name

Energy Modeling Assumptions and Comments

Applicable Field

1	Outdoor air flow is set to autosize. This field may need to be modified for specific conditions. Outdoor airflow coil inlet temperature (based on mixing with return air) should be within the following mitsubishi limits:	I- Outdoor Air Flow Rate During Cooling Operation {m3/s} I- Outdoor Air Flow Rate During Heating Operation {m3/s} I- Outdoor Air Flow Rate When No Cooling or Heating is Needed {m3/s}
	Cooling:	15-24°C / 59-75.2°F (Wet Bulb)
	Heating:	15-27°C / 59-80.6°F (Dry Bulb)
2	Default static pressure accounts for internal losses only (250Pa). Additional pressure drop may be required if the cassette is connected to outside air ducting. This will also inversely affect supply airflow.	OS:Fan:SystemModel I- Design Maximum Air Flow Rate {m3/s} I- Design Pressure Rise {Pa}
3	These fields may produce a Warning: "Rated air volume flow rate per watt of rated total heating capacity is out of range". This warning is only a guideline put in place by EnergyPlus. AHRI 1230 does not have these limitations on this range of performance.	OS:Coil:Heating:DX:VariableRefrigerantFlow I- Rated Air Flow Rate {m3/s} I- Rated Total Heating Capacity {W}



Job Name:
System Reference:

Date:



GENERAL FEATURES

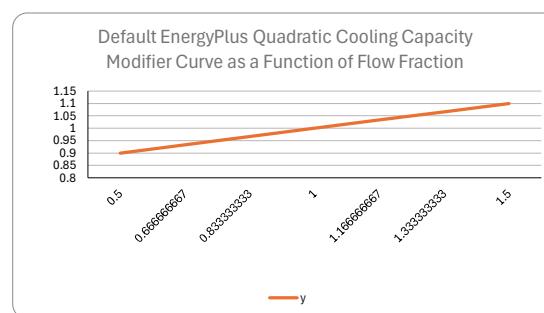
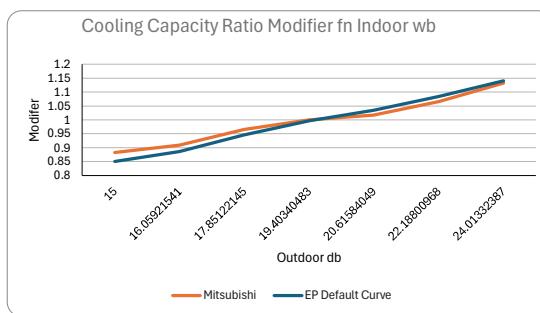
- Square edge, sleek design
- 3D turbo fan enabling increased airflow
- Built-in 3D i-see Sensor*
- Improved installation features*
- Occupancy detection*
- Energy saving features*
- Improved occupant comfort
- Four fan speed settings including auto-fan
- Corner pocket design for simplified installation
- Built-in condensate lift mechanism designed to provide up to 33-7/16" of lift
- Ventilation air intake supported

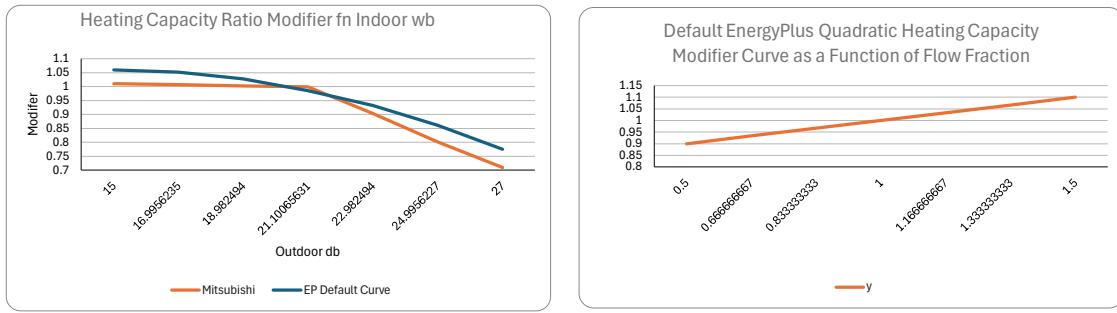
3D i-See sensor settings requires the PAR-41MAAU controller

Specifications		System
Unit Type		PLFY-EP08NEMU1-E.TH
Cooling capacity (Nominal)*	BTU/H	8,000
Heating capacity (Nominal)*	BTU/H	9,000
Power source	Voltage, Phase, Hertz	208/230V, 1-phase, 60 Hz
Power Consumption	kW	0.02
Cooling	kW	0.02
Heating	A	0.3
Current	A	0.3
MCA	A	0.39
Maximum Overcurrent Protection (MOCP)		15
External finish		Galvanized steel sheet
External Dimensions	In. [mm]	33-3/32 x 33-3/32 x 10-3/16 [840 x 840 x 258]
Net weight	Lbs [kg]	46 [21]
Heat exchanger		Cross fin (Aluminum fin and copper tube)
Fan	Type x quantity	Turbo fan x 1
Airflow rate	CFM	494-530-565-600
Motor type		DC motor
Motor Output	kW	0.05
Motor FLA	A	0.31
Sound pressure level (Measured in anechoic room)	dBA	27-29-30-31
Air filter		PP honeycomb (long life filter, anti-bacterial type)
Refrigerant	Type	R410A
Diameter of refrigerant pipe (O.D.)	Liquid (High Pressure)	1/4 [6.35] Flare
	Gas (Low Pressure)	1/2 [12.7] Flare
Diameter of drain pipe	In. [mm]	O.D. 1-1/4 [32]

NOTES:

Cooling | Indoor: 81° F (27° C) DB / 66° F (19° C) WB; Outdoor 95° F (35° C) DB
Heating | Indoor: 68° F (20° C) DB; Outdoor 45° F (7° C) DB / 43° F (6° C) WB







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Mitsubishi PLFY_EP12NEMU1_E_TH NDUCTED VRF-TU,!- Name

Energy Modeling Assumptions and Comments

Applicable Field

1	Outdoor air flow is set to autosize. This field may need to be modified for specific conditions. Outdoor airflow coil inlet temperature (based on mixing with return air) should be within the following mitsubishi limits:	I- Outdoor Air Flow Rate During Cooling Operation {m3/s}
	Cooling:	I- Outdoor Air Flow Rate During Heating Operation {m3/s}
	Heating:	I- Outdoor Air Flow Rate When No Cooling or Heating is Needed {m3/s}
2	Default static pressure accounts for internal losses only (250Pa). Additional pressure drop may be required if the cassette is connected to outside air ducting. This will also inversely affect supply airflow.	OS:Fan:SystemModel I- Design Maximum Air Flow Rate {m3/s} I- Design Pressure Rise [Pa]
3	These fields may produce a Warning: "Rated air volume flow rate per watt of rated total heating capacity is out of range.". This warning is only a guideline put in place by EnergyPlus. AHRI 1230 does not have these limitations on this range of performance.	OS:Coil:Heating:DX:VariableRefrigerantFlow I- Rated Air Flow Rate {m3/s} I- Rated Total Heating Capacity [W]



Job Name:	Date:
System Reference:	



GENERAL FEATURES

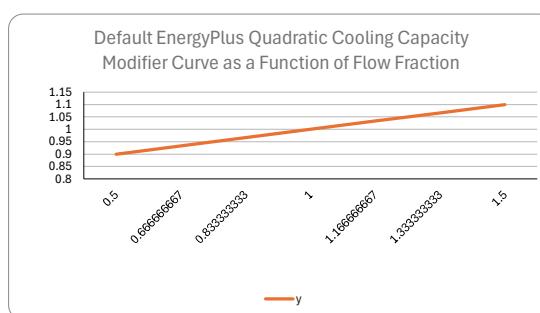
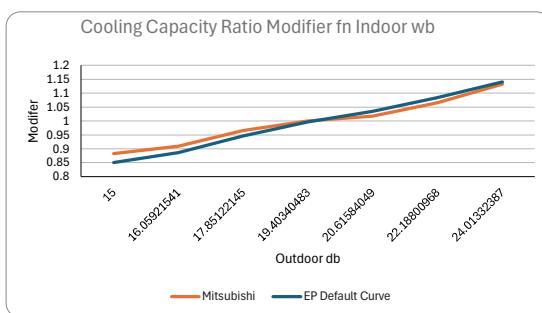
- Square edge, sleek design
 - 3D turbo fan enabling increased airflow
 - Built-In 3D i-see Sensor**
 - Improved installation features*
 - Occupancy detection*
 - Energy saving features*
 - Improved occupant comfort
 - Four fan speed settings including auto-fan
 - Corner pocket design for simplified installation
 - Built-in condensate lift mechanism designed to provide up to 33-7/16" of lift
 - Ventilation air intake supported
- **3D i-See sensor® settings requires the PAR-41MAAU controller

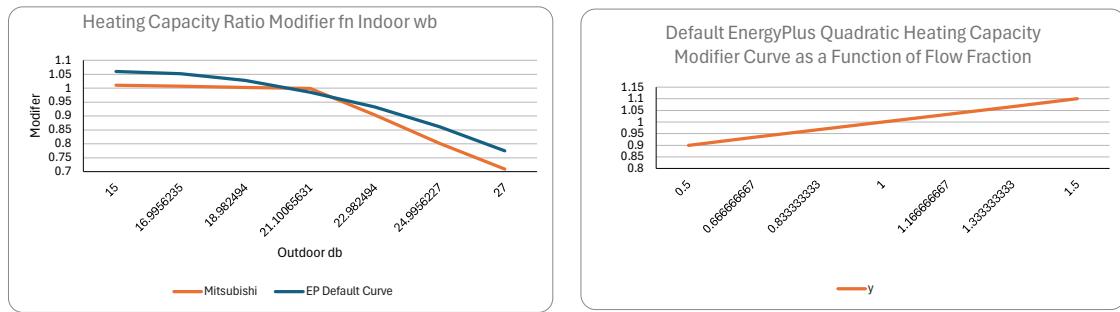
Specifications		System
Unit Type		PLFY-EP12NEMU1-E.TH
Cooling capacity (Nominal)*	BTU/H	12,000
Heating capacity (Nominal)*	BTU/H	13,500
Power source	Voltage, Phase, Hertz	208/230V, 1-phase, 60 Hz
Power Consumption	kW	0.02
Cooling	kW	0.02
Heating	A	0.3
Current	A	0.3
MCA	A	0.39
Maximum Overcurrent Protection (MOPC)	A	15
External finish		Galvanized steel sheet
External Dimensions	In [mm]	33-3/32 x 33-3/32 x 10-3/16 [840 x 840 x 256]
Net weight	Lbs [kg]	46 [21]
Heat exchanger		Cross fin (Aluminum fin and copper tube)
Fan	Type x quantity	Turbo fan x 1
	Airflow rate	494-530-565-565
	Motor type	DC motor
	Motor Output	0.05
	Motor FLA	0.31
Sound pressure level (Measured in anechoic room)	dB(A)	27-29-30-31
Air filter		PP honeycomb (long life filter, anti-bacterial type)
Refrigerant	Type	R410A
Diameter of refrigerant pipe (O.D.)	Liquid (High Pressure)	In. [mm]
	Gas (Low Pressure)	1/4 [6.35] Flare
Diameter of drain pipe		In. [mm]
		1/2 [12.7] Flare
		O.D. 1-1/4 [32]

NOTES:

Cooling | Indoor: 81° F (27° C) DB / 66° F (19° C) WB; Outdoor 95° F (35° C) DB

Heating | Indoor: 68° F (20° C) DB; Outdoor 45° F (7° C) DB / 43° F (6° C) WB







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Mitsubishi PLFY_EP15NEMU1_E TH NDUCTED VRF-TU,!- Name

Energy Modeling Assumptions and Comments

Applicable Field

1	Outdoor air flow is set to autosize. This field may need to be modified for specific conditions. Outdoor airflow coil inlet temperature (based on mixing with return air) should be within the following mitsubishi limits:	I- Outdoor Air Flow Rate During Cooling Operation {m3/s} I- Outdoor Air Flow Rate During Heating Operation {m3/s} I- Outdoor Air Flow Rate When No Cooling or Heating is Needed {m3/s}
	Cooling:	15-24°C / 59-75.2°F (Wet Bulb)
	Heating:	15-27°C / 59-80.6°F (Dry Bulb)
2	Default static pressure accounts for internal losses only (250Pa). Additional pressure drop may be required if the cassette is connected to outside air ducting. This will also inversely affect supply airflow.	OS:Fan:SystemModel I- Design Maximum Air Flow Rate {m3/s} I- Design Pressure Rise {Pa}
3	These fields may produce a Warning: "Rated air volume flow rate per watt of rated total heating capacity is out of range.". This warning is only a guideline put in place by EnergyPlus. AHRI 1230 does not have these limitations on this range of performance.	OS:Coil:Heating:DX:VariableRefrigerantFlow I- Rated Air Flow Rate {m3/s} I- Rated Total Heating Capacity {W}



Job Name:

System Reference:

Date:



GENERAL FEATURES

- Square edge, sleek design
- 3D turbo fan enabling increased airflow
- Built-in 3D i-see Sensor*
- Improved installation features*
- Occupancy detection*
- Energy saving features*
- Improved occupant comfort
- Four fan speed settings including auto-fan
- Corner pocket design for simplified installation
- Built-in condensate lift mechanism designed to provide up to 33-7/16" of lift
- Ventilation air intake supported

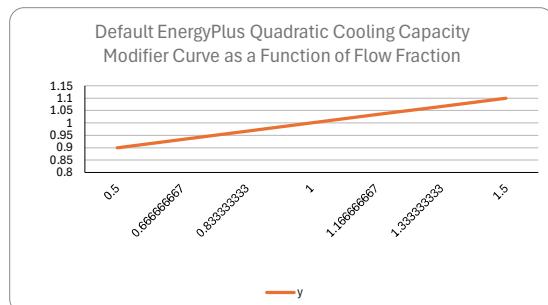
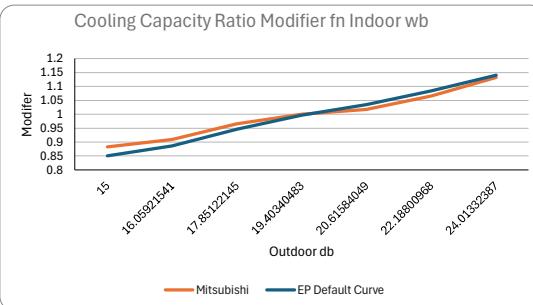
3D i-See sensor settings requires the PAR-41MAAU controller

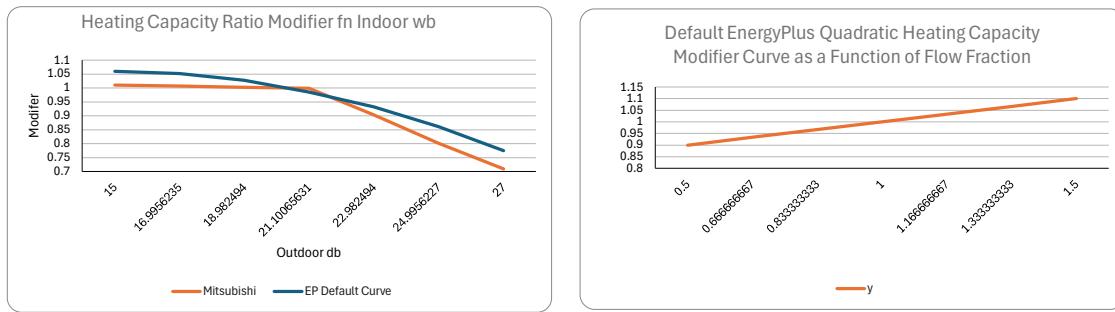
Specifications		System	
Unit Type		PLFY-EP15NEMU1-E.TH	
Cooling capacity (Nominal)*	BTU/H	15,000	
Heating capacity (Nominal)*	BTU/H	17,000	
Power source	Voltage, Phase, Hertz	208/230V, 1-phase, 60 Hz	
Power Consumption	kW	0.03	
	kW	0.02	
Current	A	0.3	
	A	0.3	
MCA	A	0.39	
Maximum Overcurrent Protection (MOCP)	A	15	
External finish	Galvanized steel sheet		
External Dimensions	In. [mm]	33-3/32 x 33-3/32 x 10-3/16 [840 x 840 x 258]	
Net weight	Lbs [kg]	46 [21]	
Heat exchanger	Cross fin (Aluminum fin and copper tube)		
Fan	Type x quantity	Turbo fan x 1	
	Airflow rate	CFM	530-547-565-600
	Motor type		DC motor
	Motor Output	kW	0.05
	Motor FLA	A	0.31
Sound pressure level (Measured in anechoic room)	dB(A)	28-29-30-31	
Air filter	PP honeycomb (long life filter, anti-bacterial type)		
Refrigerant	Type	R410A	
Diameter of refrigerant pipe (O.D.)	Liquid (High Pressure)	In. [mm]	1/4 [6.35] Flare
	Gas (Low Pressure)	In. [mm]	1/2 [12.7] Flare
Diameter of drain pipe		In. [mm]	O.D. 1-1/4 [32]

NOTES:

Cooling | Indoor: 81° F (27° C) DB / 68° F (19°C) WB; Outdoor 95° F (35° C) DB

Heating | Indoor: 68° F (20° C) DB; Outdoor 45° F (7° C) DB / 43° F (6° C) WB







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Mitsubishi PLFY_EP18NEMU1_E TH NDUCTED VRF-TU,- Name

Energy Modeling Assumptions and Comments

Applicable Field

1	Outdoor air flow is set to autosize. This field may need to be modified for specific conditions. Outdoor airflow coil inlet temperature (based on mixing with return air) should be within the following mitsubishi limits:	I- Outdoor Air Flow Rate During Cooling Operation {m3/s} I- Outdoor Air Flow Rate During Heating Operation {m3/s} I- Outdoor Air Flow Rate When No Cooling or Heating is Needed {m3/s}
	Cooling:	15-24°C / 59-75.2°F (Wet Bulb)
	Heating:	15-27°C / 59-80.6°F (Dry Bulb)
2	Default static pressure accounts for internal losses only (250Pa). Additional pressure drop may be required if the cassette is connected to outside air ducting. This will also inversely affect supply airflow.	OS:Fan:SystemModel I- Design Maximum Air Flow Rate {m3/s} I- Design Pressure Rise {Pa}
3	These fields may produce a Warning: "Rated air volume flow rate per watt of rated total heating capacity is out of range.". This warning is only a guideline put in place by EnergyPlus. AHRI 1230 does not have these limitations on this range of performance.	OS:Coil:Heating:DX:VariableRefrigerantFlow I- Rated Air Flow Rate {m3/s} I- Rated Total Heating Capacity {W}

CITYMULTI® PLFY-EP18NEMU1-E.TH 18,000 BTU/H 33" X 33" 4-WAY CEILING CASSETTE



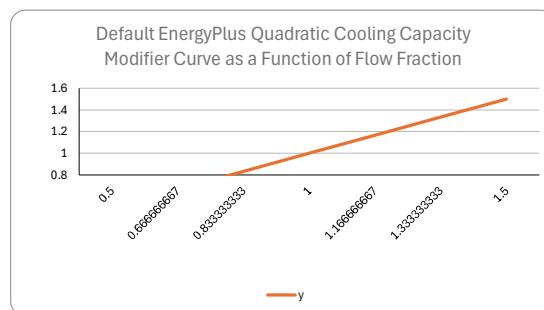
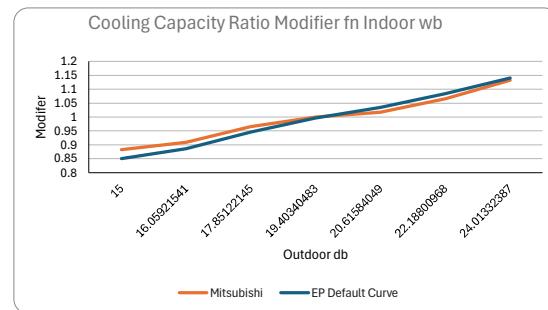
Job Name:	Date:
System Reference:	

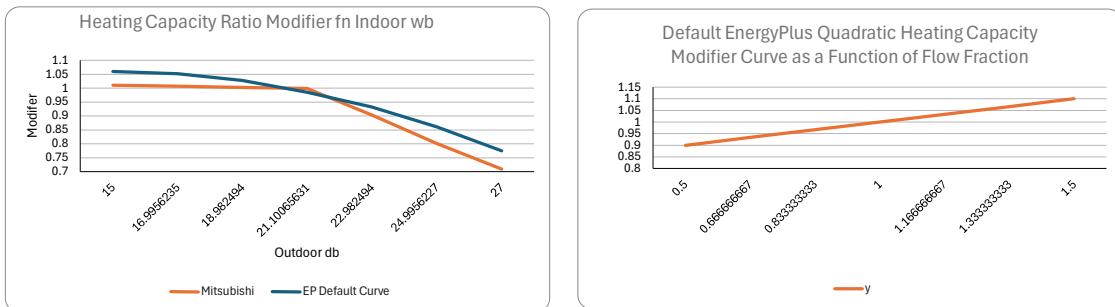


- GENERAL FEATURES**
- Square edge, sleek design
 - 3D turbo fan enabling increased airflow
 - Built-in 3D i-see Sensor*
 - Improved installation features*
 - Occupancy detection*
 - Energy saving features*
 - Improved occupant comfort
 - Four fan speed settings including auto-fan
 - Corner pocket design for simplified installation
 - Built-in condensate lift mechanism designed to provide up to 33-7/16" of lift
 - Ventilation air intake supported
- **3D i-See sensor* settings requires the PAR-41MAAU controller

Specifications	Unit Type	System	
Cooling capacity (Nominal) ¹	BTU/H	18,000	PLFY-EP18NEMU1-E.TH
Heating capacity (Nominal) ¹	BTU/H	20,000	
Power source	Voltage, Phase, Hertz	208/230V, 1-phase, 60 Hz	
Power Consumption	kW	0.04	
Cooling	kW	0.04	
Heating	A	0.4	
Current	A	0.4	
MCA	A	0.54	
Maximum Overcurrent Protection (MOCP)	A	15	
External finish		Galvanized steel sheet	
External Dimensions	In [mm]	33-3/32 x 33-3/32 x 11-3/4 [840 x 840 x 298]	
Net weight	Lbs [kg]	55 [25]	
Heat exchanger		Cross fin (Aluminum fin and copper tube)	
Fan	Type x quantity	Turbo fan x 1	
Airflow rate	CFM	636-671-742-812	
Motor type		DC motor	
Motor Output	kW	0.12	
Motor FLA	A	0.43	
Sound pressure level (Measured in anechoic room)	dBA(A)	28-30-32-34	
Air filter		PP honeycomb (low pressure, anti-bacterial type)	
Refrigerant	Type	R410A	
Diameter of refrigerant pipe (O.D.)	Liquid (High Pressure)	In. [mm]	1/4 [6.35] Flare
Diameter of drain pipe	Gas (Low Pressure)	In. [mm]	1/2 [12.7] Flare
		In. [mm]	O.D. 1-1/4 [32]

NOTES:
Cooling | Indoor: 81°F (27°C) DB / 68°F (19°C) WB. Outdoor 95°F (35°C) DB
Heating | Indoor: 68°F (20°C) DB; Outdoor 45°F (7°C) DB / 43°F (6°C) WB







HELIX ENERGY PARTNERS LLC, PO BOX 418, HELIX, OREGON 97835

WWW.HELIX-ENGINEERS.NET

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Mitsubishi PLFY_EP24NEMU1_E TH NDUCTED VRF-TU,!- Name

Energy Modeling Assumptions and Comments

Applicable Field

1	Outdoor air flow is set to autosize. This field may need to be modified for specific conditions. Outdoor airflow coil inlet temperature (based on mixing with return air) should be within the following mitsubishi limits:	I- Outdoor Air Flow Rate During Cooling Operation {m³/s} I- Outdoor Air Flow Rate During Heating Operation {m³/s} I- Outdoor Air Flow Rate When No Cooling or Heating is Needed {m³/s}
	Cooling:	15-24°C / 59-75.2°F (Wet Bulb)
	Heating:	15-27°C / 59-80.6°F (Dry Bulb)
2	Default static pressure accounts for internal losses only (250Pa). Additional pressure drop may be required if the cassette is connected to outside air ducting. This will also inversely affect supply airflow.	OS:Fan:SystemModel I- Design Maximum Air Flow Rate {m³/s} I- Design Pressure Rise [Pa]
3	These fields may produce a Warning: "Rated air volume flow rate per watt of rated total heating capacity is out of range.". This warning is only a guideline put in place by EnergyPlus. AHRI 1230 does not have these limitations on this range of performance.	OS:Coil:Heating:DX:VariableRefrigerantFlow I- Rated Air Flow Rate {m³/s} I- Rated Total Heating Capacity [W]

CITYMULTI® PLFY-EP24NEMU1-E.TH 24,000 BTU/H 33" X 33" 4-WAY CEILING CASSETTE



Job Name: _____ Date: _____
System Reference: _____

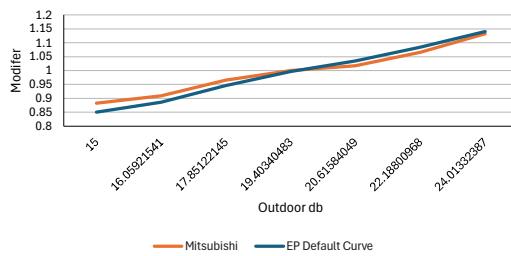


- GENERAL FEATURES**
- Square edge sleek design
 - 3D turbo fan enabling increased airflow
 - Built-in 3D i-see Sensor®*
 - Improved installation features*
 - Occupancy detection*
 - Energy saving features*
 - Improved occupant comfort
 - Four fan speed settings including auto-fan
 - Corner pocket design for simplified installation
 - Built-in condensate lift mechanism designed to provide up to 33-1/6" of lift
 - Ventilation air intake supported
- *3D i-See sensor® settings requires the PAR-41MAAU controller

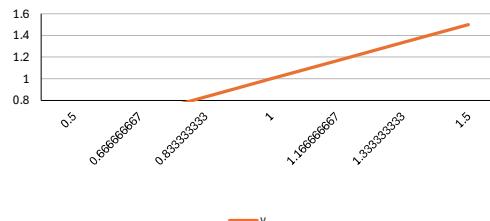
Specifications		System
Unit Type		PLFY-EP24NEMU1-E.TH
Cooling capacity (Nominal)*	BTU/H	24,000
Heating capacity (Nominal)*	BTU/H	27,000
Power source	Voltage, Phase, Hertz	208/230V, 1-phase, 60 Hz
Power Consumption	kW	0.04
Cooling	kW	0.04
Heating	A	0.4
Current	A	0.4
Cooling	A	0.54
Heating	A	15
MCA		Galvanized steel sheet
Maximum Overcurrent Protection (MOCR)		33-3/32 x 33-3/32 x 11-3/4 [840 x 840 x 298]
External finish	In. [mm]	55 [25]
External Dimensions	Lbs [kg]	Cross fin (Aluminum fin and copper tube)
Net weight		Turbo fan x 1 636-671-742-B12 DC motor
Heat exchanger		0.12
Fan	kW	0.45
Type x quantity	A	28-30-32-34
Airflow rate	CFM	PP honeycomb (long life filter, anti-bacterial type)
Motor type		R410A
Motor Output		3/8 [9.52] Flare
Motor FLA		5/8 [15.88] Flare
Sound pressure level (Measured in anechoic room)	dBA(A)	O.D. 1-1/4 [32]
Air filter		
Refrigerant	Type	
Diameter of refrigerant pipe (O.D.)	Liquid (High Pressure)	
Diameter of drain pipe	Gas (Low Pressure)	

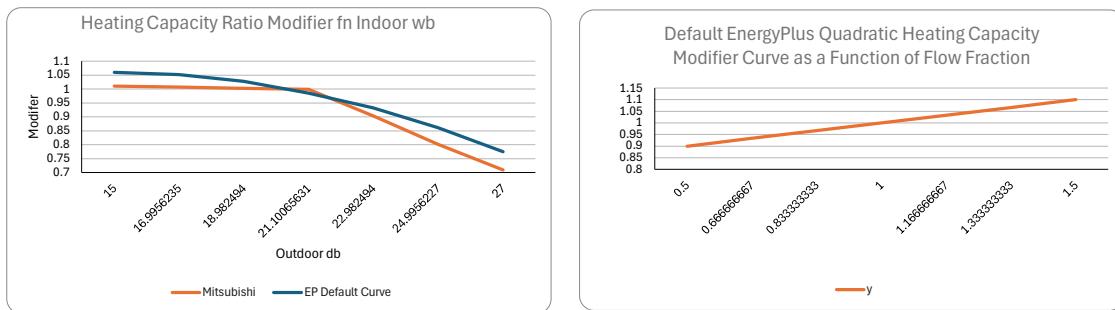
NOTES:
Cooling | Indoor: 81° F (27° C) DB / 69° F (19° C) WB; Outdoor: 95° F (35° C) DB
Heating | Indoor: 68° F (20° C) DB; Outdoor: 45° F (7° C) DB / 43° F (6° C) WB

Cooling Capacity Ratio Modifier fn Indoor wb



Default EnergyPlus Quadratic Cooling Capacity Modifier Curve as a Function of Flow Fraction







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Mitsubishi PLFY_EP30NEMU1_E_TH NONDUCTED VRF-TU,!- Name

Energy Modeling Assumptions and Comments

Applicable Field

1	Outdoor air flow is set to autosize. This field may need to be modified for specific conditions. Outdoor airflow coil inlet temperature (based on mixing with return air) should be within the following mitsubishi limits:	I- Outdoor Air Flow Rate During Cooling Operation {m3/s} I- Outdoor Air Flow Rate During Heating Operation {m3/s} I- Outdoor Air Flow Rate When No Cooling or Heating is Needed {m3/s}
	Cooling:	15-24°C / 59-75.2°F (Wet Bulb)
	Heating:	15-27°C / 59-80.6°F (Dry Bulb)
2	Default static pressure accounts for internal losses only (250Pa). Additional pressure drop may be required if the cassette is connected to outside air ducting. This will also inversely affect supply airflow.	OS:Fan:SystemModel I- Design Maximum Air Flow Rate {m3/s} I- Design Pressure Rise {Pa}
3	These fields may produce a Warning: "Rated air volume flow rate per watt of rated total heating capacity is out of range.". This warning is only a guideline put in place by EnergyPlus. AHRI 1230 does not have these limitations on this range of performance.	OS:Coil:Heating:DX:VariableRefrigerantFlow I- Rated Air Flow Rate {m3/s} I- Rated Total Heating Capacity {W}

CITYMULTI® PLFY-EP30NEMU1-E.TH 30,000 BTU/H 33" X 33" 4-WAY CEILING CASSETTE



Job Name:

System Reference:

Date:



GENERAL FEATURES

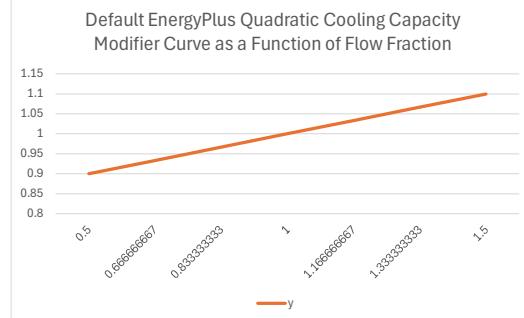
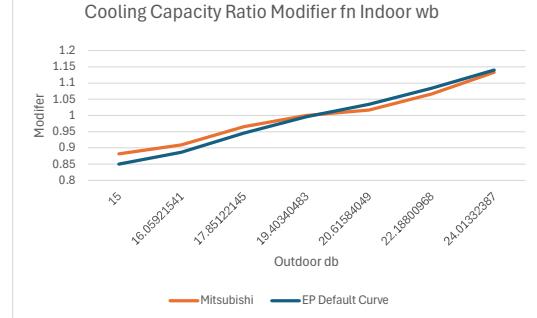
- Square edge, sleek design
- 3D turbo fan enabling increased airflow
- Built-in 3D i-see Sensor*
- Improved installation features*
- Occupancy detection*
- Energy saving features*
- Improved occupant comfort
- Four fan speed settings including auto-fan
- Corner pocket design for simplified installation
- Built-in condensate lift mechanism designed to provide up to 33-7/16" of lift
- Ventilation air intake supported

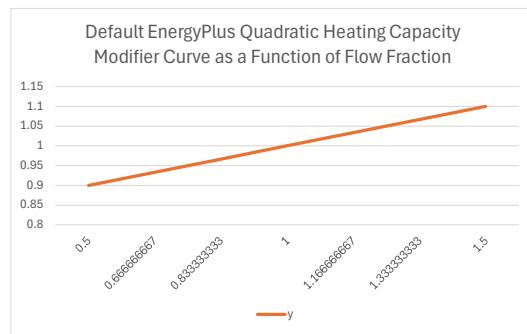
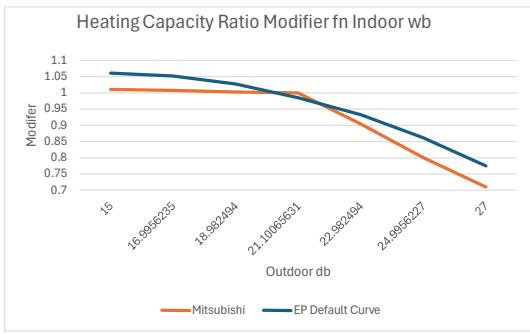
**3D I-See sensor* settings requires the PAR-41MAAU controller

Specifications		System	
Unit Type		PLFY-EP30NEMU1-E.TH	
Cooling capacity (Nominal)*	BTU/H	20,000	
Heating capacity (Nominal)*	BTU/H	34,000	
Power source	Voltage, Phase, Hertz	208/230V, 1-phase, 60 Hz	
Power Consumption	kW	0.04	
Cooling	kW	0.04	
Heating	A	0.5	
Current	A	0.4	
Heating	A	0.57	
MCA	A	15	
Maximum Overcurrent Protection (MOCP)			
External finish	Galvanized steel sheet		
External Dimensions	In. [mm]	33-3/32 x 33-3/32 x 11-3/4 (840 x 840 x 298)	
Net weight	Lbs [kg]	55 [25]	
Heat exchanger	Cross fin (Aluminum fin and copper tube)		
Fan	Type x quantity	Turbo fan x 1	
Airflow rate	CFM	636-708-777-812	
Motor type		DC motor	
Motor Output	kW	0.12	
Motor FLA	A	0.45	
Sound pressure level (Measured in anechoic room)	dB(A)	28-31-33-35	
Air filter	PP honeycomb (long life filter, anti-bacterial type)		
Refrigerant	Type	R410A	
Diameter of refrigerant pipe (O.D.)	In. [mm]	3/8 [9.52] Flare	
Gas (Low Pressure)	In. [mm]	5/8 [15.88] Flare	
Diameter of drain pipe	In. [mm]	O.D. 1-1/4 [32]	

NOTES:
Cooling | Indoor: 81°F (27°C) DB / 66°F (19°C) WB; Outdoor 95°F (35°C) DB

Heating | Indoor: 68°F (20°C) DB; Outdoor 45°F (7°C) DB / 43°F (6°C) WB







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Mitsubishi PLFY_EP36NEMU1_E TH NDUCTED VRF-TU,!- Name

Energy Modeling Assumptions and Comments

Applicable Field

1	Outdoor air flow is set to autosize. This field may need to be modified for specific conditions. Outdoor airflow coil inlet temperature (based on mixing with return air) should be within the following mitsubishi limits:	I- Outdoor Air Flow Rate During Cooling Operation {m3/s} I- Outdoor Air Flow Rate During Heating Operation {m3/s} I- Outdoor Air Flow Rate When No Cooling or Heating is Needed {m3/s}
	Cooling:	15-24°C / 59-75.2°F (Wet Bulb)
	Heating:	15-27°C / 59-80.6°F (Dry Bulb)
2	Default static pressure accounts for internal losses only (250Pa). Additional pressure drop may be required if the cassette is connected to outside air ducting. This will also inversely affect supply airflow.	OS:Fan:SystemModel I- Design Maximum Air Flow Rate {m3/s} I- Design Pressure Rise [Pa]
3	These fields may produce a Warning: "Rated air volume flow rate per watt of rated total heating capacity is out of range". This warning is only a guideline put in place by EnergyPlus. AHRI 1230 does not have these limitations on this range of performance.	OS:Coil:Heating:DX:VariableRefrigerantFlow I- Rated Air Flow Rate {m3/s} I- Rated Total Heating Capacity [W]

CITYMULTI® PLFY-EP36NEMU1-E.TH 36,000 BTU/H 33" X 33" 4-WAY CEILING CASSETTE



Job Name:
System Reference:

Date:

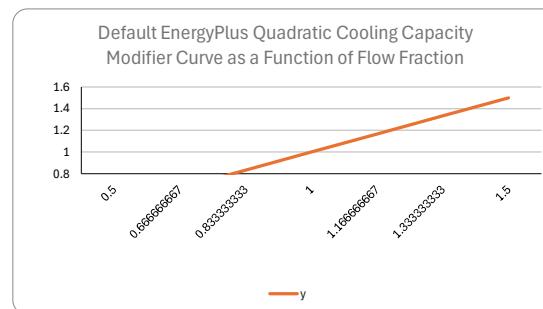
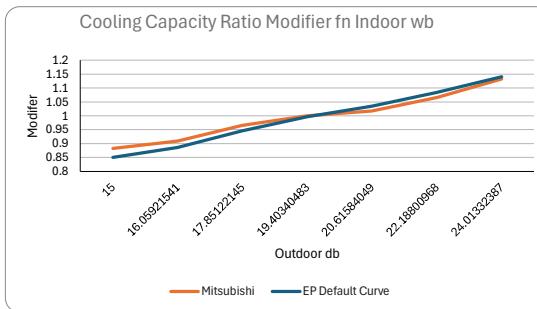


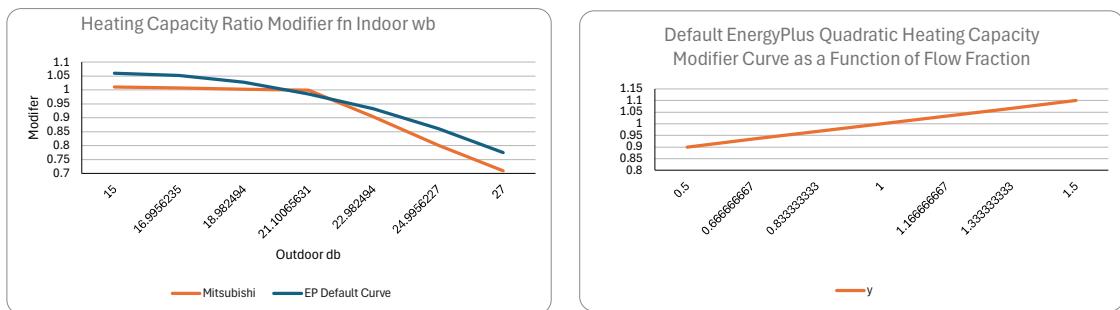
GENERAL FEATURES

- Square edge, sleek design
 - 3D turbo fan enabling increased airflow
 - Built-in 3D i-see Sensor**
 - Improved installation features*
 - Occupancy detection*
 - Energy saving features*
 - Improved occupant comfort
 - Four fan speed settings including auto-fan
 - Corner pocket design for simplified installation
 - Built-in condensate lift mechanism designed to provide up to 33-7/16" of lift
 - Ventilation air intake supported
- **3D i-See sensor® settings requires the PAR-41MAAU controller

Specifications Unit Type	PLFY-EP36NEMU1-E.TH
Cooling capacity (Nominal)*	BTU/H 36,000
Heating capacity (Nominal)*	BTU/H 40,000
Power source	Voltage, Phase, Hertz 208/230V, 1-phase, 60 Hz
Power Consumption	kW 0.04
Cooling	kW 0.07
Heating	A 0.7
Current	A 0.7
MCA	A 0.92
Maximum Overcurrent Protection (MOCP)	A 15
External finish	Galvanized steel sheet
External Dimensions	In. [mm] 33-3/32 x 33-3/32 x 11-3/4 [840 x 840 x 298]
Net weight	Lbs [kg] 55 [25]
Heat exchanger	Cross fin (Aluminum fin and copper tube)
Fan	Turbo fan x 1
Type x quantity	CFM 777-883-989-1,095
Airflow rate	Diameter 10.5"
Motor type	kW 0.12
Motor Output	A 0.73
Motor FLA	dBA 35-37-39-41
Sound pressure level (Measured in anechoic room)	PP honeycomb (long life filter, anti-bacterial type)
Air filter	R410A
Refrigerant	Type Liquid (High Pressure)
Diameter of refrigerant pipe (O.D.)	In. [mm] 3/8 [9.52] Flare
Gas (Low Pressure)	In. [mm] 5/8 [15.88] Flare
Diameter of drain pipe	In. [mm] O.D. 1-1/4 [32]

NOTES:
Cooling | Indoor: 81° F (27° C) DB / 68° F (19°C) WB; Outdoor 95° F (35° C) DB
Heating | Indoor: 68° F (20° C) DB; Outdoor 45° F (7° C) DB / 43° F (6° C) WB







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Mitsubishi PLFY_EP48NEMU1_E TH NDUCTED VRF-TU,!- Name

Energy Modeling Assumptions and Comments

Applicable Field

1	Outdoor air flow is set to autosize. This field may need to be modified for specific conditions. Outdoor airflow coil inlet temperature (based on mixing with return air) should be within the following mitsubishi limits:	I- Outdoor Air Flow Rate During Cooling Operation {m3/s}
		I- Outdoor Air Flow Rate During Heating Operation {m3/s}
	Cooling:	I- Outdoor Air Flow Rate When No Cooling or Heating is Needed {m3/s}
	Heating:	15-24°C / 59-75.2°F (Wet Bulb)
2	Default static pressure accounts for internal losses only (250Pa). Additional pressure drop may be required if the cassette is connected to outside air ducting. This will also inversely affect supply airflow.	OS:Fan:SystemModel I- Design Maximum Air Flow Rate {m3/s} I- Design Pressure Rise [Pa]
3	These fields may produce a Warning: "Rated air volume flow rate per watt of rated total heating capacity is out of range". This warning is only a guideline put in place by EnergyPlus. AHRI 1230 does not have these limitations on this range of performance.	OS:Coil:Heating:DX:VariableRefrigerantFlow I- Rated Air Flow Rate {m3/s} I- Rated Total Heating Capacity [W]

CITYMULTI® PLFY-EP48NEMU1-E.TH 48,000 BTU/H 33" X 33" 4-WAY CEILING CASSETTE



Job Name:
System Reference:

Date:



GENERAL FEATURES

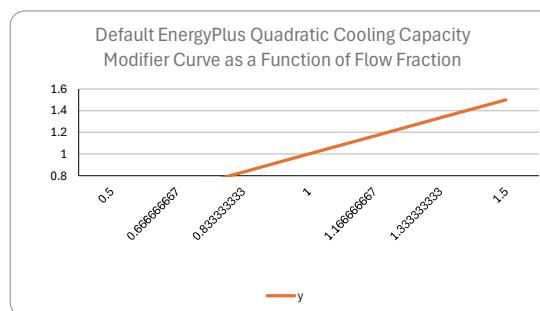
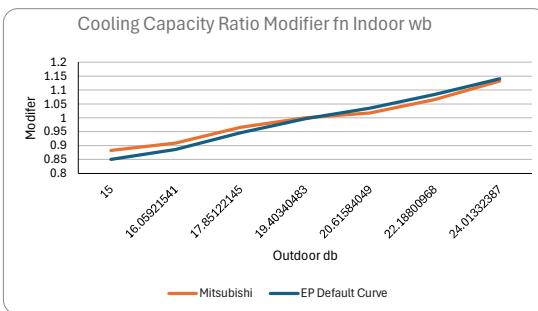
- Square edge, sleek design
 - 3D turbo fan enabling increased airflow
 - Built-in 3D i-see Sensor*
 - Improved installation features*
 - Occupancy detection*
 - Energy saving features*
 - Improved occupant comfort
 - Four fan speed settings including auto-fan
 - Corner pocket design for simplified installation
 - Built-in condensate lift mechanism designed to provide up to 33-7/16" of lift
 - Ventilation air intake supported
- **3D I-See sensor® settings requires the PAR-41MAAU controller

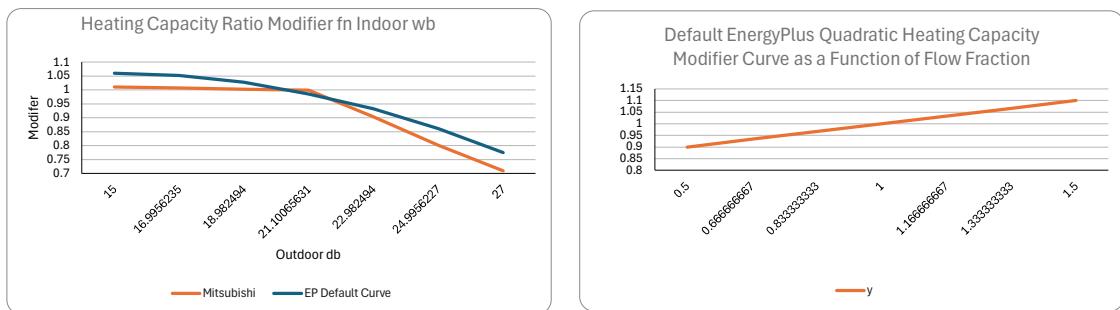
Specifications Unit Type	System
Cooling capacity (Nominal) Heating capacity (Nominal)	BTU/H BTU/H
Power source	208/230V, 1-phase, 60 Hz
Power Consumption	kW kW
Current	A A A A
MCA	1.0 1.0 1.27 15
Maximum Overcurrent Protection (MOPC)	
External finish	Galvanized steel sheet
External Dimensions	In. [mm] 33-3/32 x 33-3/32 x 11-3/4 [840 x 840 x 298]
Net weight	Lbs [kg] 55 [25]
Heat exchanger	Cross fin (Aluminum fin and copper tube)
Fan	Turbo fan x 1 CFM 777-954-1,095-1,236
Sound pressure level (Measured in anechoic room)	dB(A) 36-39-42-45
Air filter	PP honeycomb (long life filter, anti-bacterial type)
Refrigerant	R410A
Diameter of refrigerant pipe (O.D.)	In. [mm] 3/8 [9.52] Flare
Diameter of drain pipe	In. [mm] 5/8 [15.88] Flare
NOTES: Cooling Indoor: 81° F (27° C) DB / 66° F (19°C) WB; Outdoor 95° F (35° C) DB Heating Indoor: 68° F (20° C) DB; Outdoor 45° F (7° C) DB / 43° F (6° C) WB	O.D. 1-1/4 [32]

16.05921541 17.85122145 19.40340483 20.61584049 22.18890988 24.01332387

Outdoor db

Mitsubishi EP Default Curve







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Mitsubishi PUHY-EP72TNU/YNU-A1 NONDUCTED-VRF-OU,!- Name

Mitsubishi PUHY-EP72TNU/YNU-A1 DUCTED-VRF-OU,!- Name

Mitsubishi PUHY-EP72TNU/YNU-A1 NONDUCTED-HIGHHEAT-VRF-OU,!- Name

Mitsubishi PUHY-EP72TNU/YNU-A1 DUCTED-HIGHHEAT-VRF-OU,!- Name

Energy Modeling Assumptions and Comments

Applicable Field

1	Coefficient of Performance is calculated assuming either Ducted or Non-Ducted indoor units, as specified in the I- Name	I- Gross Rated Cooling COP {W/W}
2	Outdoor unit is installed in location above indoor units (this affects cooling operating outdoor temperature range). If the outdoor unit will be installed below the indoor units, adjust the fields: I- Minimum Outdoor Temperature in Cooling Mode {C} = 0°C I- Maximum Outdoor Temperature in Cooling Mode {C} = 43°C	I- Maximum Outdoor Temperature in Cooling Mode {C}
3	Standard performance mode: Dip switch toggle is off (it will not allow for high heating performance mode). For high heating performance, see I- Name with HIGHHEAT	I- Heating Capacity Ratio Modifier Function of Low Temperature Curve Name I- Heating Energy Input Ratio Modifier Function of Low Temperature Curve Name
4	EPLUS Default is 1: IT DOES NOT ACCOUNT FOR OPERATIONAL INEFFICIENCIES BELOW MINIMUM PLR (COMPRESSOR CYCLING) ! No information from Mitsubishi on this.	I- Cooling Part-Load Fraction Correlation Curve Name
5	EPLUS Default is 1: IT DOES NOT ACCOUNT FOR OPERATIONAL INEFFICIENCIES BELOW MINIMUM PLR (COMPRESSOR CYCLING) ! No information from Mitsubishi on this.	I- Heating Part-Load Fraction Correlation Curve Name
6	No waste heat recovery	I- Heat Pump Waste Heat Recovery
7	30 meters. Adjust this parameter to suit your project conditions	I- Equivalent Piping Length used for Piping Correction Factor in Cooling Mode {m}
8	10 meters: This is not used	I- Vertical Height used for Piping Correction Factor {m}
9	No published derate for height between IDU and ODU, used EPLUS default 0	I- Piping Correction Factor for Height in Cooling Mode Coefficient {1/m}
10	Mitsubishi docs do not indicate any crank case heater. There is an optional drain pan heater though...this is currently only for Evaporative condensers	I- Crankcase Heater Power per Compressor {W}
11	Mitsubishi docs do not indicate any dependence on indoor wetbulb temperature	I- Defrost Energy Input Ratio Modifier Function of Temperature Curve Name
12	Default (null value) for this field will use the weatherfile outdoor conditions. If condenser is located up high, another file may be necessary.	I- Condenser Inlet Node
13	No heat recovery for this model	I- Minimum Outdoor Temperature in Heat Recovery Mode {C} I- Maximum Outdoor Temperature in Heat Recovery Mode {C} I- Heat Recovery Cooling Capacity Modifier Curve Name I- Initial Heat Recovery Cooling Capacity Fraction {W/W} I- Heat Recovery Cooling Capacity Time Constant {hr} I- Heat Recovery Cooling Energy Modifier Curve Name I- Initial Heat Recovery Cooling Energy Fraction {W/W} I- Heat Recovery Cooling Energy Time Constant {hr} I- Heat Recovery Heating Capacity Modifier Curve Name I- Initial Heat Recovery Heating Capacity Fraction {W/W} I- Heat Recovery Heating Capacity Time Constant {hr} I- Heat Recovery Heating Energy Modifier Curve Name I- Initial Heat Recovery Heating Energy Fraction {W/W} I- Heat Recovery Heating Energy Time Constant {hr}

CITYMULTI®

6-TON PUHY-EP72TNU-A1



Job Name:

System Reference:

Date:

208/230V OUTDOOR VRF HEAT PUMP SYSTEM



UNIT OPTION

Standard Model..... PUHY-EP72TNU-A1

ACCESSORIES

- Big Foot Stand..... for details see Big Foot Stands submittals
- Header Kit..... for details see Pipe Accessories Submittal
- Joint Kit..... for details see Pipe Accessories Submittal
- Low Ambient Kit..... for details see Low Ambient Kit Submittal
- Panel Heater Kit..... for details see Panel Heater Kit Submittal
- Snow/Hail Guards Kit..... for details see Snow/Hail Guards Kit Submittal

Specifications		System	
Unit Type		PUHY-EP72TNU-A1	
Cooling Capacity (Nominal)	BTU/H	72,000	
Heating Capacity (Nominal)	BTU/H	80,000	
Guaranteed Operating Range	Cooling Heating	"F [°C] "-13~-60 [-25.0~15.5]	23~126 [5.0~52.0]
Extended Operating Range	Heating	"F [°C]	-27.4~-60 [-33.0~15.5]
External Dimensions (H x W x D)	In. [mm]	71.5/8 x 36.1/4 x 29.3/16 [1,818 x 920 x 740]	
Net Weight	Lbs. [kg]	512 [232]	
External Finish		Pre-coated galvanized steel sheet (+powder coating for -BS type) [MUNSELL 3Y 7.8/1 or similar]	
Electrical Power Requirements	Voltage, Phase, Hertz, Power Tolerance	208/230V, 3-phase, 60 Hz, ±10%	
Minimum Circuit Ampacity	A	32.0/29.0	
Maximum Overcurrent Protection	A	50/45	
Recommended Fuse Size	A	35/30	
Recommended Minimum Wire Size	AWG [mm]	8/10 [8.4/5.3]	
SCCR	kA	5	
Refrigerant Piping Diameter	Liquid (High Pressure) Gas (Low Pressure)	In. [mm]	3/8 [9.52] Braze
		In. [mm]	7/8 [22.2] Braze
Max. Total Refrigerant Line Length		Fl.	3,280 [1,000]
Max. Refrigerant Line Length (Between ODU & IDU)		Fl.	541 [165]
Max. Control Wiring Length		Fl.	1,640 [500]
Indoor Unit Connectable	Total Capacity	50.0~130.0% of outdoor unit capacity	

Model/Quantity		P04-P72/1.0~18.0
Sound Pressure Levels	dB(A)	55.057.0
Sound Power Levels	dB(A)	74.576.0
FAN ¹	Type x Quantity	Propeller fan x 1
	Fan Motor Output	kW 0.92
	Airflow Rate	CFM 6,000
	External Static Pressure	In. WG Selectable: 0.00, 0.12, 0.24, 0.32, In. WG; factory set to 0 in. WG 15.0% to 100.0%
Compressor Operating Range		
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1
Refrigerant	Type x Original Charge	R410A x 14.0 lbs + 5.0 oz (6.5 kg)
Protection Devices	High Pressure Protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter Circuit (Comp./Fan)	Over-current protection
AHRI Ratings (Ducted/Non-ducted)	EER	12.2/13.7
	IEER	22.2/27.1
	COP	4.05/4.57

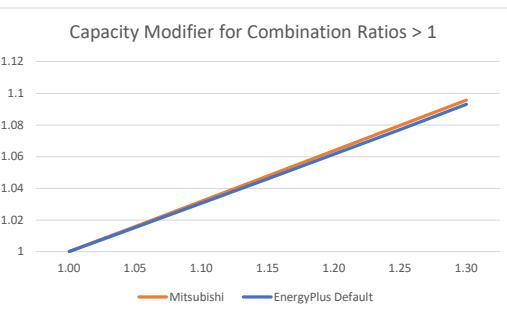
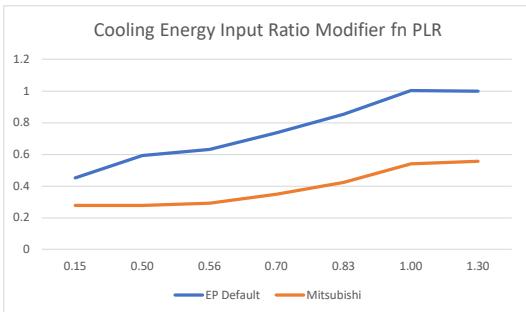
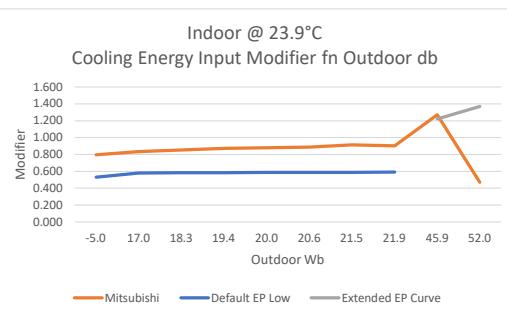
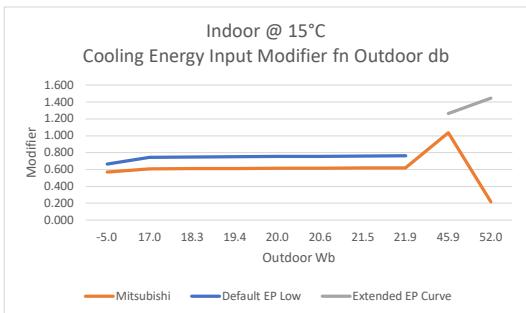
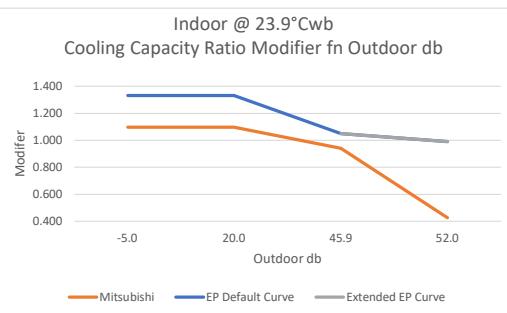
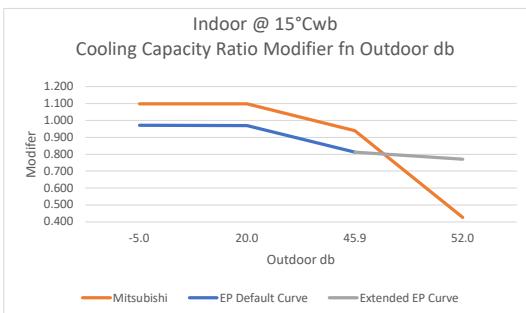
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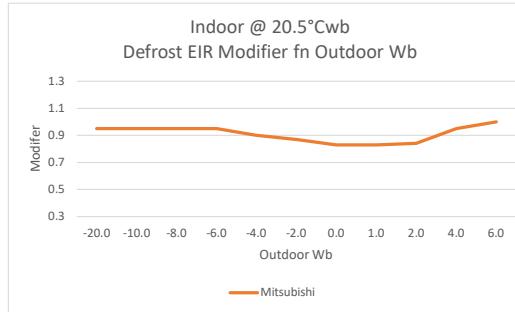
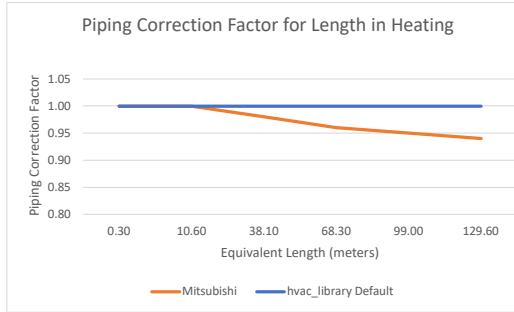
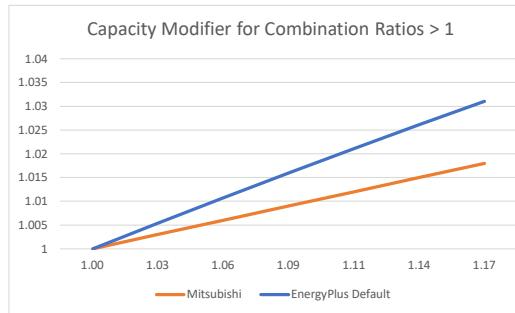
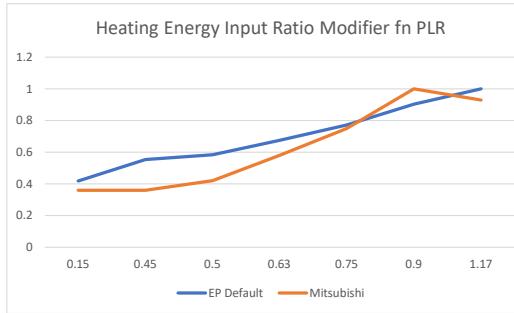
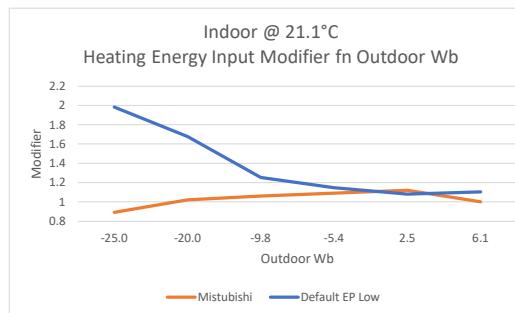
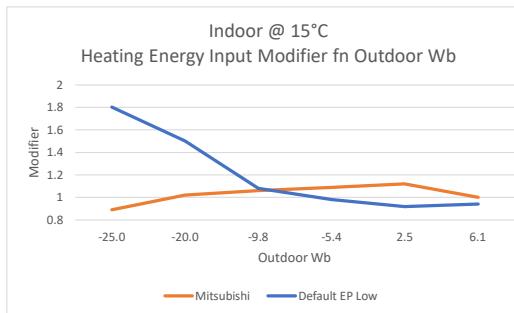
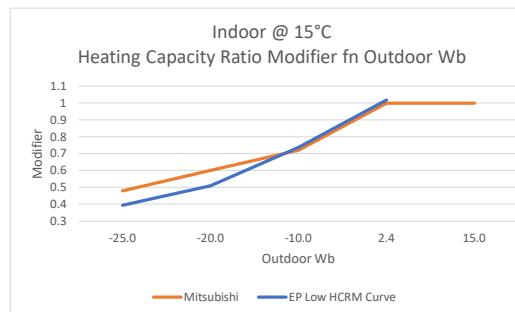
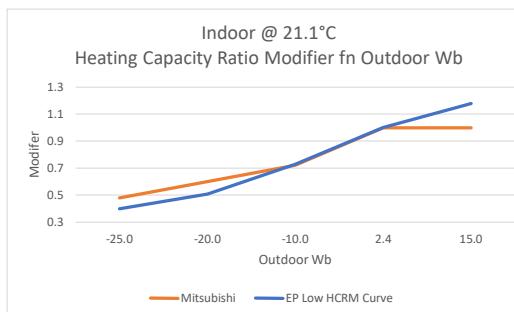
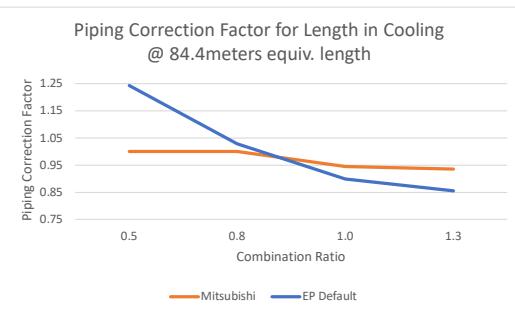
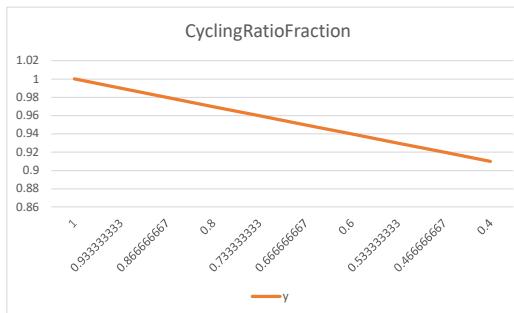
Nominal cooling conditions (Test conditions are based on AHRI 1230-2023)
 Indoor: 80°FDB, 67°FWB, (26.7°CDB, 19.4°CWB), Outdoor: 95°FDB, (35°CDB.)
 Nominal heating conditions (Test conditions are based on AHRI 1230-2023)
 Indoor: 70°FDB, (21.1°CDB), Outdoor: 47°FDB, 43°FWB, (8.3°CDB, 6.1°CWB.)

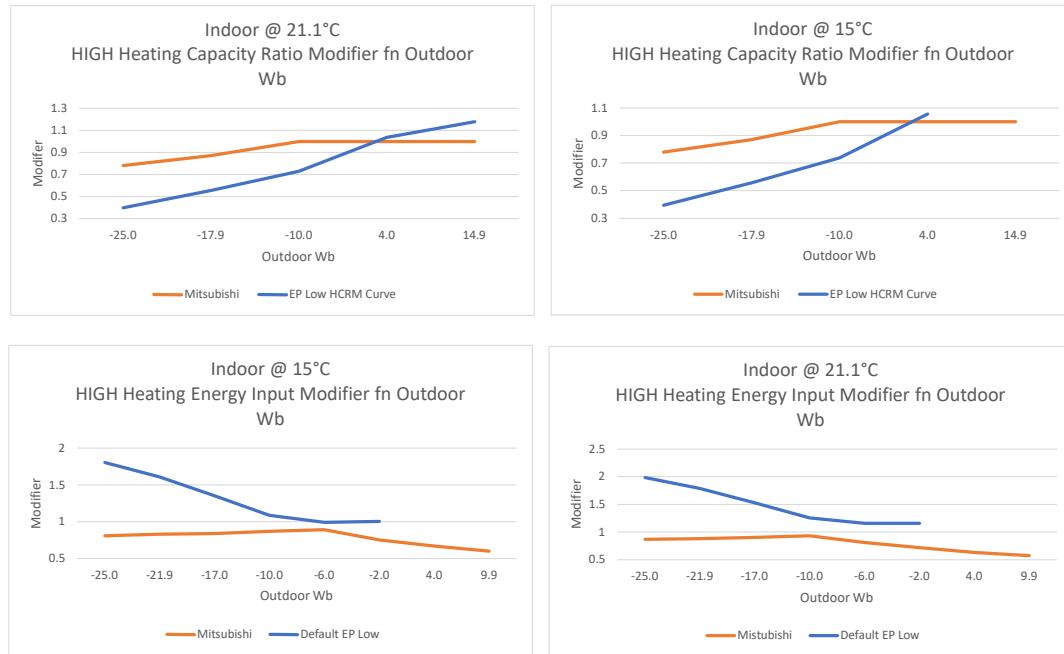
Harsh weather environments may demand performance enhancing equipment. Ask your Mitsubishi Electric representative for more details about your region.
 For details on extended cooling operation range down to -10°F DB, see Low Ambient Kit Submittal.
 When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
 Unit will continue to operate in extended operating range, but capacity is not guaranteed.

Specifications are subject to change without notice.

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Mitsubishi PUHY-EP96TNU/YNU-A1 NONDUCTED-VRF-OU,!- Name**Mitsubishi PUHY-EP96TNU/YNU-A1 DUCTED-VRF-OU,!- Name****Mitsubishi PUHY-EP96TNU/YNU-A1 NONDUCTED-HIGHHEAT-VRF-OU,!- Name****Mitsubishi PUHY-EP96TNU/YNU-A1 DUCTED-HIGHHEAT-VRF-OU,!- Name****Energy Modeling Assumptions and Comments****Applicable Field**

1	Coefficient of Performance is calculated assuming either Ducted or Non-Ducted indoor units, as specified in the I- Name	I- Gross Rated Cooling COP {W/W}
2	Outdoor unit is installed in location above indoor units (this affects cooling operating outdoor temperature range). If the outdoor unit will be installed below the indoor units, adjust the fields: I- Minimum Outdoor Temperature in Cooling Mode {C} = 0°C I- Maximum Outdoor Temperature in Cooling Mode {C} = 43°C	I- Maximum Outdoor Temperature in Cooling Mode {C}
3	Standard performance mode: Dip switch toggle is off (it will not allow for high heating performance mode). For high heating performance, see I- Name with HIGHHEAT	I- Heating Capacity Ratio Modifier Function of Low Temperature Curve Name I- Heating Energy Input Ratio Modifier Function of Low Temperature Curve Name
4	EPLUS Default is 1: IT DOES NOT ACCOUNT FOR OPERATIONAL INEFFICIENCIES BELOW MINIMUM PLR (COMPRESSOR CYCLING) ! No information from Mitsubishi on this.	I- Cooling Part-Load Fraction Correlation Curve Name
5	EPLUS Default is 1: IT DOES NOT ACCOUNT FOR OPERATIONAL INEFFICIENCIES BELOW MINIMUM PLR (COMPRESSOR CYCLING) ! No information from Mitsubishi on this.	I- Heating Part-Load Fraction Correlation Curve Name
6	No waste heat recovery	I- Heat Pump Waste Heat Recovery
7	30 meters. Adjust this parameter to suit your project conditions	I- Equivalent Piping Length used for Piping Correction Factor in Cooling Mode {m}
8	10 meters: This is not used	I- Vertical Height used for Piping Correction Factor {m}
9	No published derate for height between IDU and ODU, used EPLUS default 0	I- Piping Correction Factor for Height in Cooling Mode Coefficient {1/m}
10	Mitsubishi docs do not indicate any crank case heater. There is an optional drain pan heater though...this is currently only for Evaporative condensers	I- Crankcase Heater Power per Compressor {W}
11	Mitsubishi docs do not indicate any dependence on indoor wetbulb temperature	I- Defrost Energy Input Ratio Modifier Function of Temperature Curve Name
12	Default (null value) for this field will use the weatherfile outdoor conditions. If condenser is located up high, another file may be necessary.	I- Condenser Inlet Node
13	No heat recovery for this model	I- Minimum Outdoor Temperature in Heat Recovery Mode {C} I- Maximum Outdoor Temperature in Heat Recovery Mode {C} I- Heat Recovery Cooling Capacity Modifier Curve Name I- Initial Heat Recovery Cooling Capacity Fraction {W/W} I- Heat Recovery Cooling Capacity Time Constant {hr} I- Heat Recovery Cooling Energy Modifier Curve Name I- Initial Heat Recovery Cooling Energy Fraction {W/W} I- Heat Recovery Cooling Energy Time Constant {hr} I- Heat Recovery Heating Capacity Modifier Curve Name I- Initial Heat Recovery Heating Capacity Fraction {W/W} I- Heat Recovery Heating Capacity Time Constant {hr} I- Heat Recovery Heating Energy Modifier Curve Name I- Initial Heat Recovery Heating Energy Fraction {W/W} I- Heat Recovery Heating Energy Time Constant {hr}

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8-TON PUHY-EP96TNU-A1



Job Name:

System Reference:

Date:

208/230V OUTDOOR VRF HEAT PUMP SYSTEM



UNIT OPTION

 Standard Model PUHY-EP96TNU-A1 Big Foot Stand for details see Big Foot Stands submittals Header Kit for details see Pipe Accessories Submittal Joint Kit for details see Pipe Accessories Submittal Low Ambient Kit for details see Low Ambient Kit Submittal Panel Heater Kit for details see Panel Heater Kit Submittal Snow/Hail Guards Kit for details see Snow/Hail Guards Kit Submittal

Specifications

Unit Type

System

PUHY-EP96TNU-A1

Cooling Capacity (Nominal)	BTU/H	96,000
Heating Capacity (Nominal)	BTU/H	108,000
Guaranteed Operating Range	Cooling Heating	9°F [-5.0°-52.0] °F [°C] -13°-60° [-25.0°-15.5] °F [°C]
Extended Operating Range	Heating	-27.4°-60° [-33.0°-15.5] °F [°C]
External Dimensions (H x W x D)	In. [mm]	71.56 x 49.7/8 x 29.3/16 [1,818 x 1,240 x 740]
Net Weight	Lbs. [kg]	622 [282]
External Finish		Pre-coated galvanized steel sheet (+powder coating for -BS type) [MUNSELL 3Y 7.8/1.1 or similar]
Electrical Power Requirements	Voltage, Phase, Hertz, Power Tolerance	208/230V, 3-phase, 60 Hz, ±10%
Minimum Circuit Ampacity	A	44.0/40.0
Maximum Overcurrent Protection	A	70/60
Recommended Fuse Size	A	45/40
Recommended Minimum Wire Size	AWG [mm]	6/8 [13.3/8.4]
SCCR	kA	5
Refrigerant Piping Diameter	Liquid (High Pressure) Gas (Low Pressure)	In. [mm] 3/8 [9.52] Braze (Pipe Size Dependent on Piping Length) In. [mm] 7/8 [22.2] Braze
Max. Total Refrigerant Line Length	ft.	3,280 [1,000]
Max. Refrigerant Line Length (Between ODU & IDU)	ft.	541 [165]
Max. Control Wires Length	ft.	± 600 [550]

INDOOR UNIT CONNECTABLE		OUTDOOR UNIT	
Indoor Unit Connectable	Total Capacity Model/Quantity	50.0~130.0% of outdoor unit capacity P04~P96/1.0~24.0	
Sound Pressure Levels	dB(A)	56.0/58.5	
Sound Power Levels	dB(A)	75.0/77.5	
FAN ¹	Type x Quantity Fan Motor Output Airflow Rate External Static Pressure	kW CFM In. WG	Propeller fan x 2 0.46±0.46 6,700 Selectable: 0.00, 0.12, 0.24, 0.32, In. WG; factory set to 0 In. WG 15.0% to 100.0%
Compressor Operating Range			Inverter scroll hermetic compressor x 1
Compressor	Type x Quantity		R410A x 21.0 lbs ± 9.0 oz [9.8 kg]
Refrigerant	Type x Original Charge		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
Protection Devices	High Pressure Protection Inverter Circuit (Comp./Fan)		Over-current protection
AHRI Ratings (Ducted/Non-ducted)	EER IEER COP		11.9/12.3 23.5/26.5 4.0/4.39

NOTES:

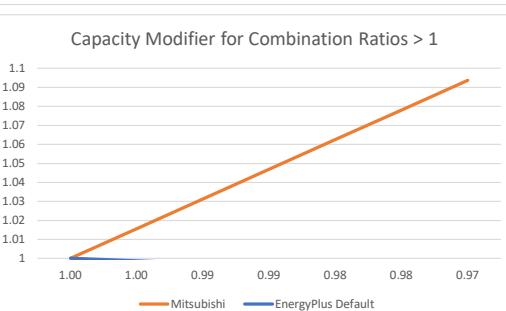
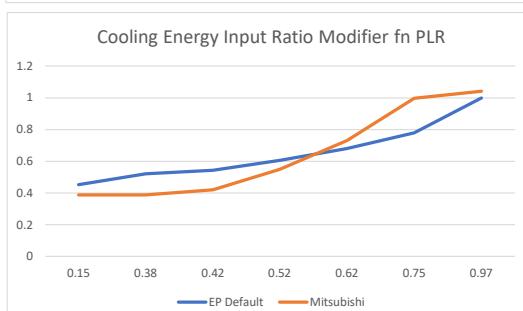
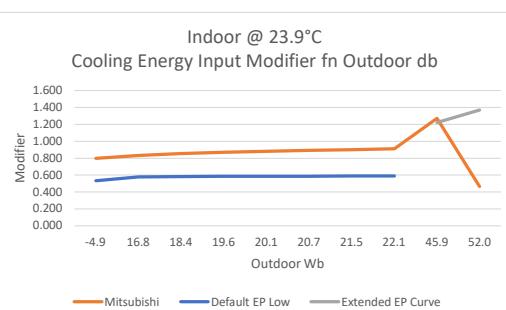
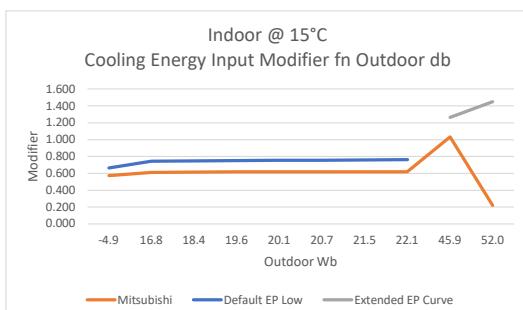
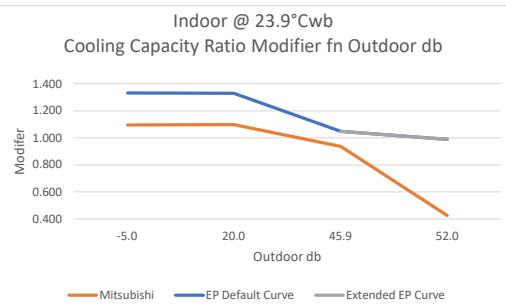
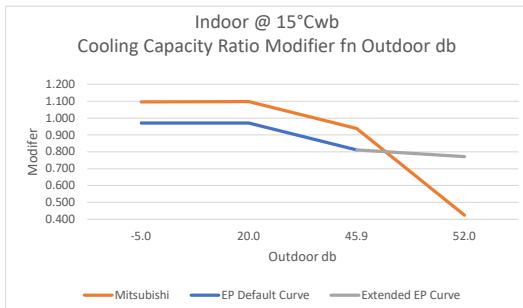
Nominal cooling conditions (Test conditions are based on AHRI 1230-2023)
Indoor: 80°F DB/67°F WB. (26.7°CDB/19.4°CWB.), Outdoor: 95°F DB. (35°CDB.)
Nominal heating conditions (Test conditions are based on AHRI 1230-2023)
Indoor: 70°F DB. (21.1°CDB.), Outdoor: 47°F DB/43°F WB. (6.3°CDB/6.1°CWB.)

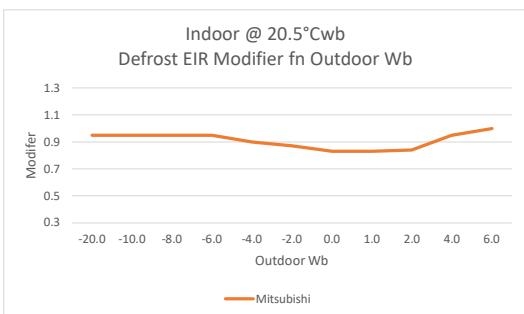
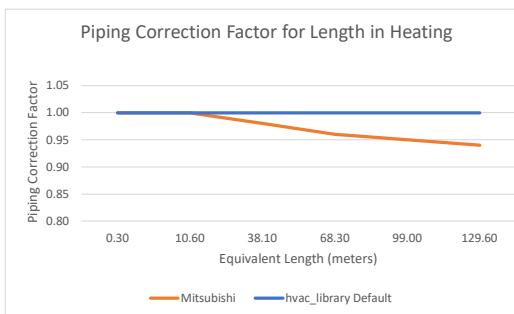
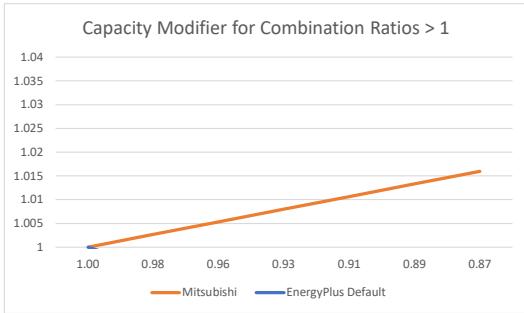
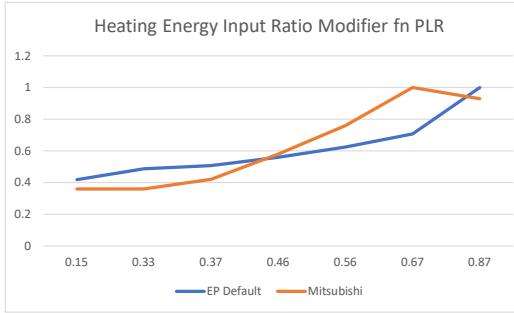
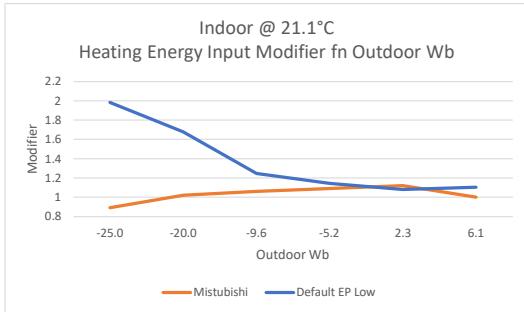
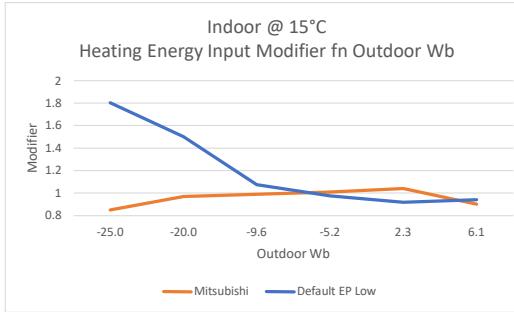
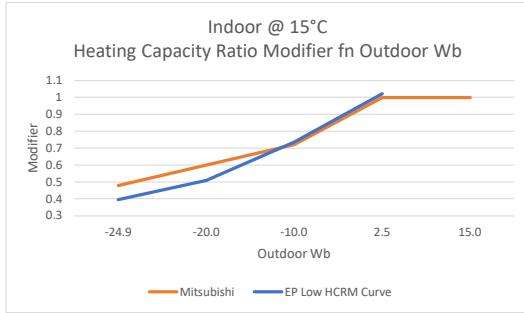
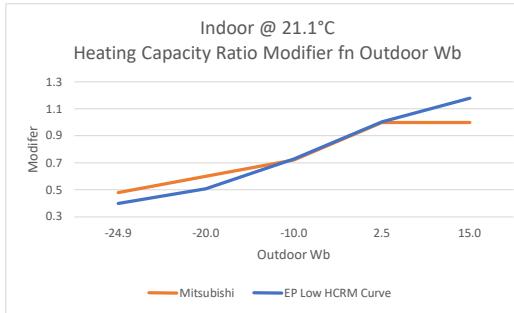
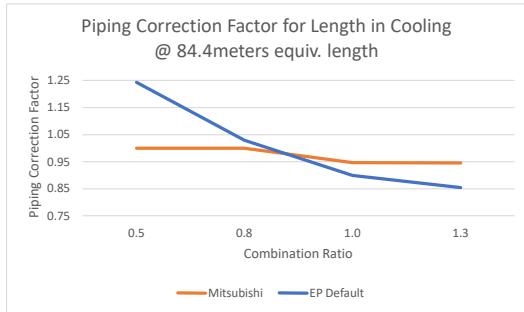
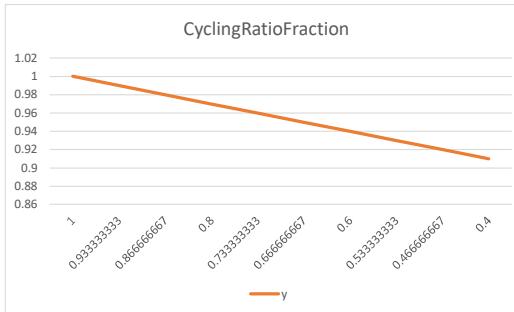
¹Harsh weather environments may demand performance enhancing equipment. Ask your Mitsubishi Electric representative for more details about your region.
²For details on extended cooling operation range down to -10° F DB, see Low Ambient Kit Submittal
³When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.

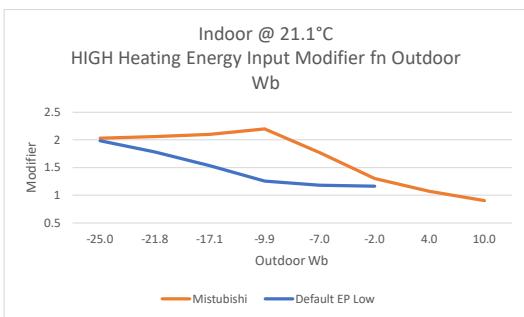
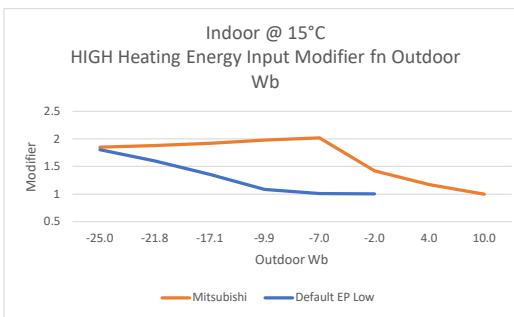
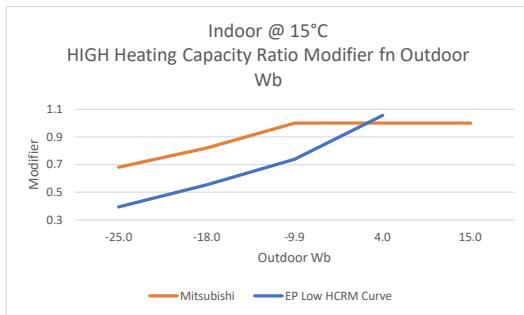
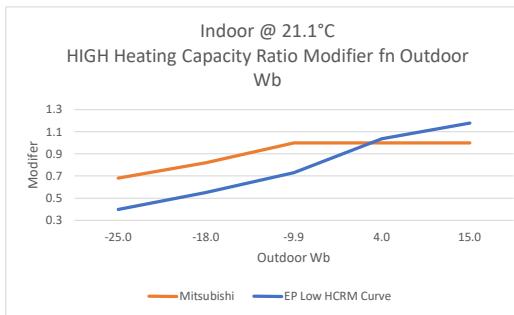
⁴Unit will continue to operate in extended operating range, but capacity is not guaranteed.

Specifications are subject to change without notice.

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Mitsubishi PUHY-EP120TNU/YNU-A1 NONDUCTED-VRF-OU,!- Name**Mitsubishi PUHY-EP120TNU/YNU-A1 DUCTED-VRF-OU,!- Name****Mitsubishi PUHY-EP120TNU/YNU-A1 NONDUCTED-HIGHHEAT-VRF-OU,!- Name****Mitsubishi PUHY-EP120TNU/YNU-A1 DUCTED-HIGHHEAT-VRF-OU,!- Name****Energy Modeling Assumptions and Comments****Applicable Field**

1	Coefficient of Performance is calculated assuming either Ducted or Non-Ducted indoor units, as specified in the I- Name	I- Gross Rated Cooling COP {W/W}
2	Outdoor unit is installed in location above indoor units (this affects cooling operating outdoor temperature range). If the outdoor unit will be installed below the indoor units, adjust the fields: I- Minimum Outdoor Temperature in Cooling Mode {C} = 0°C I- Maximum Outdoor Temperature in Cooling Mode {C} = 43°C	I- Maximum Outdoor Temperature in Cooling Mode {C}
3	Standard performance mode: Dip switch toggle is off (it will not allow for high heating performance mode). For high heating performance, see I- Name with HIGHHEAT	I- Heating Capacity Ratio Modifier Function of Low Temperature Curve Name I- Heating Energy Input Ratio Modifier Function of Low Temperature Curve Name
4	EPLUS Default is 1: IT DOES NOT ACCOUNT FOR OPERATIONAL INEFFICIENCIES BELOW MINIMUM PLR (COMPRESSOR CYCLING) ! No information from Mitsubishi on this.	I- Cooling Part-Load Fraction Correlation Curve Name
5	EPLUS Default is 1: IT DOES NOT ACCOUNT FOR OPERATIONAL INEFFICIENCIES BELOW MINIMUM PLR (COMPRESSOR CYCLING) ! No information from Mitsubishi on this.	I- Heating Part-Load Fraction Correlation Curve Name
6	No waste heat recovery	I- Heat Pump Waste Heat Recovery
7	30 meters. Adjust this parameter to suit your project conditions	I- Equivalent Piping Length used for Piping Correction Factor in Cooling Mode {m}
8	10 meters: This is not used	I- Vertical Height used for Piping Correction Factor {m}
9	No published data for height between IDU and ODU, used EPLUS default 0	I- Piping Correction Factor for Height in Cooling Mode Coefficient {1/m}
10	Mitsubishi docs do not indicate any crank case heater. There is an optional drain pan heater though...this is currently only for Evaporative condensers	I- Crankcase Heater Power per Compressor {W}
11	Mitsubishi docs do not indicate any dependence on indoor wetbulb temperature	I- Defrost Energy Input Ratio Modifier Function of Temperature Curve Name
12	Default (null value) for this field will use the weatherfile outdoor conditions. If condenser is located up high, another file may be necessary.	I- Condenser Inlet Node
13	No heat recovery for this model	I- Minimum Outdoor Temperature in Heat Recovery Mode {C} I- Maximum Outdoor Temperature in Heat Recovery Mode {C} I- Heat Recovery Cooling Capacity Modifier Curve Name I- Initial Heat Recovery Cooling Capacity Fraction {W/W} I- Heat Recovery Cooling Capacity Time Constant {hr} I- Heat Recovery Cooling Energy Modifier Curve Name I- Initial Heat Recovery Cooling Energy Fraction {W/W} I- Heat Recovery Cooling Energy Time Constant {hr} I- Heat Recovery Heating Capacity Modifier Curve Name I- Initial Heat Recovery Heating Capacity Fraction {W/W} I- Heat Recovery Heating Capacity Time Constant {hr} I- Heat Recovery Heating Energy Modifier Curve Name I- Initial Heat Recovery Heating Energy Fraction {W/W} I- Heat Recovery Heating Energy Time Constant {hr}

CITYMULTI®

10-TON PUHY-EP120TNU-A1



Job Name:

System Reference:

Date:

208/230V OUTDOOR VRF HEAT PUMP SYSTEM



UNIT OPTION

 Standard Model PUHY-EP120TNU-A1

ACCESSORIES

- Big Foot Stand for details see Big Foot Stands submittals
- Header Kit for details see Pipe Accessories Submittal
- Joint Kit for details see Pipe Accessories Submittal
- Low Ambient Kit for details see Low Ambient Kit Submittal
- Panel Heater Kit for details see Panel Heater Kit Submittal
- Snow/Hail Guards Kit for details see Snow/Hail Guards Kit Submittal

Specifications

Unit Type

System

PUHY-EP120TNU-A1

Cooling Capacity (Nominal)	BTU/H	120,000
Heating Capacity (Nominal)	BTU/H	135,000
Guaranteed Operating Range	Cooling °F [°C]	23-126 [-5.0-52.0]
	Heating °F [°C]	-13-60 [-25.0-15.5]
Extended Operating Range	Heating °F [°C]	-27.4-60 [-33.0-15.5]
External Dimensions (H x W x D)	In. [mm]	71.5/8 x 48.7/8 x 29.3/16 [1,816 x 1,240 x 740]
Net Weight	Lbs. [kg]	633 (287)
External Finish		Pre-coated galvanized steel sheet (+powder coating for -BS type) [MUNSELL 3Y 7.8/1.1 or similar]
Electrical Power Requirements	Voltage, Phase, Hertz, Power Tolerance	208/230V, 3-phase, 60 Hz, ±10%
Minimum Circuit Ampacity	A	55.0/49.0
Maximum Overcurrent Protection	A	90/80
Recommended Fuse Size	A	60/50
Recommended Minimum Wire Size	AWG [mm]	4/6 [21.2/13.3]
SCCR	kA	5
Refrigerant Piping Diameter	Liquid (High Pressure) In. [mm]	3/8 [9.52] Brazed (Pipe Size Dependent on Piping Length)
	Gas (Low Pressure) In. [mm]	1-1/8 [28.56] Brazed
Max. Total Refrigerant Line Length	Ft.	3,280 (1,000)
Max. Refrigerant Line Length (Between ODU & IDU)	Ft.	541 (165)
Max. Control Wiring Length	Ft.	1,640 (500)
Indoor Unit Connectable	Total Capacity	50.0-130.0% of outdoor unit capacity

Model/Quantity		P04-P961.0-30.0
Sound Pressure Levels	dB(A)	59.5/61.5
Sound Power Levels	dB(I)	79.5/81.0
FAN'	Type x Quantity	Propeller fan x 2
	Fan Motor Output	0.46±0.46 kW
	Airflow Rate	7,750 CFM
	External Static Pressure	In. WG Selectable: 0.00, 0.12, 0.24, In. WG; factory set to 0 In. WG
Compressor Operating Range		15.0% to 100.0%
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1
Refrigerant	Type x Original Charge	R410A x 21.0 lbs ± 9.0 oz [9.8 kg]
Protection Devices	High Pressure Protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter Circuit (Comp./Fan)	Over-current protection
AHRI Ratings (Ducted/Non-ducted)	EER	10.7/10.9
	IIEER	21.9/24.8
	COP	3.8/4.21

NOTES:

Nominal cooling conditions (Test conditions are based on AHRI 1230-2023)
 Indoor: 80°F DB, 67°F WB, (28.7°CDB/19.4°CWB), Outdoor: 95°F DB, (35°CDB)

'Harsh weather environments may demand performance enhancing equipment. Ask your Mitsubishi Electric representative for more details.
 For details on extended cooling operating range down to -10°F DB, see Low Ambient Kit Submittal.
 When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
 'Unit will continue to operate in extended operating range, but capacity is not guaranteed.

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