

Job Name:

System Reference:

Date:

460V OUTDOOR VRF HEAT RECOVERY SYSTEM



UNIT OPTION

Standard Model.....PURY-EP288YSNU-A

Seacoast (BS) Model.....PURY-EP288YSNU-A-BS

ACCESSORIES

Big Foot Stand.....for details see Big Foot Stands submittals

Twinning Kit (Required).....CMY-R300NCBK

BC Controller (Required).....for details see BC Controller Submittals

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		PURY-EP288YSNU-A(-BS)	
Cooling Capacity (Nominal)		BTU/H	288,000
Heating Capacity (Nominal)		BTU/H	323,000
Net Weight		Lbs. [kg]	1,430 [648]
Refrigerant Piping Diameter	Liquid (High Pressure)	In. [mm]	1-1/8 [28.58] Brazed
	Gas (Low Pressure)	In. [mm]	1-3/8 [34.93] Brazed
Max. Total Refrigerant Line Length		Ft.	3,116
Max. Refrigerant Line Length (Between ODU & IDU)		Ft.	541
Max. Control Wiring Length		Ft.	1,640
Indoor Unit Connectable	Total Capacity		50.0~150.0% of outdoor unit capacity
	Model/Quantity		P04~P96/2.0~50.0
Sound Pressure Levels		dB(A)	68.0/68.5
Sound Power Levels		dB(A)	88.5/88.5
Compressor Operating Range			7.5% to 100.0%
AHRI Ratings (Ducted/Non-ducted)	EER		9.3/9.4
	IEER		19.4/20.8
	COP		3.26/3.46
	SCHE		21.7/24.5

Specifications			Module 1	Module 2
Unit Type			PURY-EP144YNU-A(-BS)	PURY-EP144YNU-A(-BS)
Cooling Capacity (Nominal)		BTU/H	144,000	144,000
Heating Capacity (Nominal)		BTU/H	160,000	160,000
Guaranteed Operating Range ¹	Cooling ²	°F [°C]	23~126 [-5.0~52.0]	23~126 [-5.0~52.0]
	Heating	°F [°C]	-13~60 [-25.0~15.5]	-13~60 [-25.0~15.5]
Extended Operating Range	Heating	°F [°C]	-27.4~60 [-33.0~15.5]	-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 [1,818 x 1,240 x 740]	71-5/8 x 48-7/8 x 29-3/16 [1,818 x 1,240 x 740]
Net Weight		Lbs. [kg]	715 [324]	715 [324]
External Finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) [MUNSELL 5Y 8/1]	Pre-coated galvanized steel sheet (+powder coating for -BS type) [MUNSELL 5Y 8/1]
Electrical Power Requirements	Voltage, Phase, Hertz, Power Tolerance		460V, 3-phase, 60 Hz, ±10%	460V, 3-phase, 60 Hz, ±10%
Minimum Circuit Ampacity		A	34.0	34.0
Maximum Overcurrent Protection		A	50	50
Recommended Fuse Size		A	35	35
Recommended Minimum Wire Size		AWG [mm]	8 [8.4]	8 [8.4]
SCCR		kA	5	5
FAN ⁴	Type x Quantity		Propeller fan x 2	Propeller fan x 2
	Airflow Rate	CFM	9,550	9,550
	External Static Pressure	In. WG	Selectable; 0.00, 0.12, 0.24, 0.32, In. WG; factory set to 0 In. WG	Selectable; 0.00, 0.12, 0.24, 0.32, In. WG; factory set to 0 In. WG
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
Refrigerant	Type x Original Charge		R410A x 23.0 lbs + 12.0 oz [10.8 kg]	R410A x 23.0 lbs + 12.0 oz [10.8 kg]
Protection Devices	High Pressure Protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter Circuit (Comp./Fan)		Over-current protection	Over-current protection

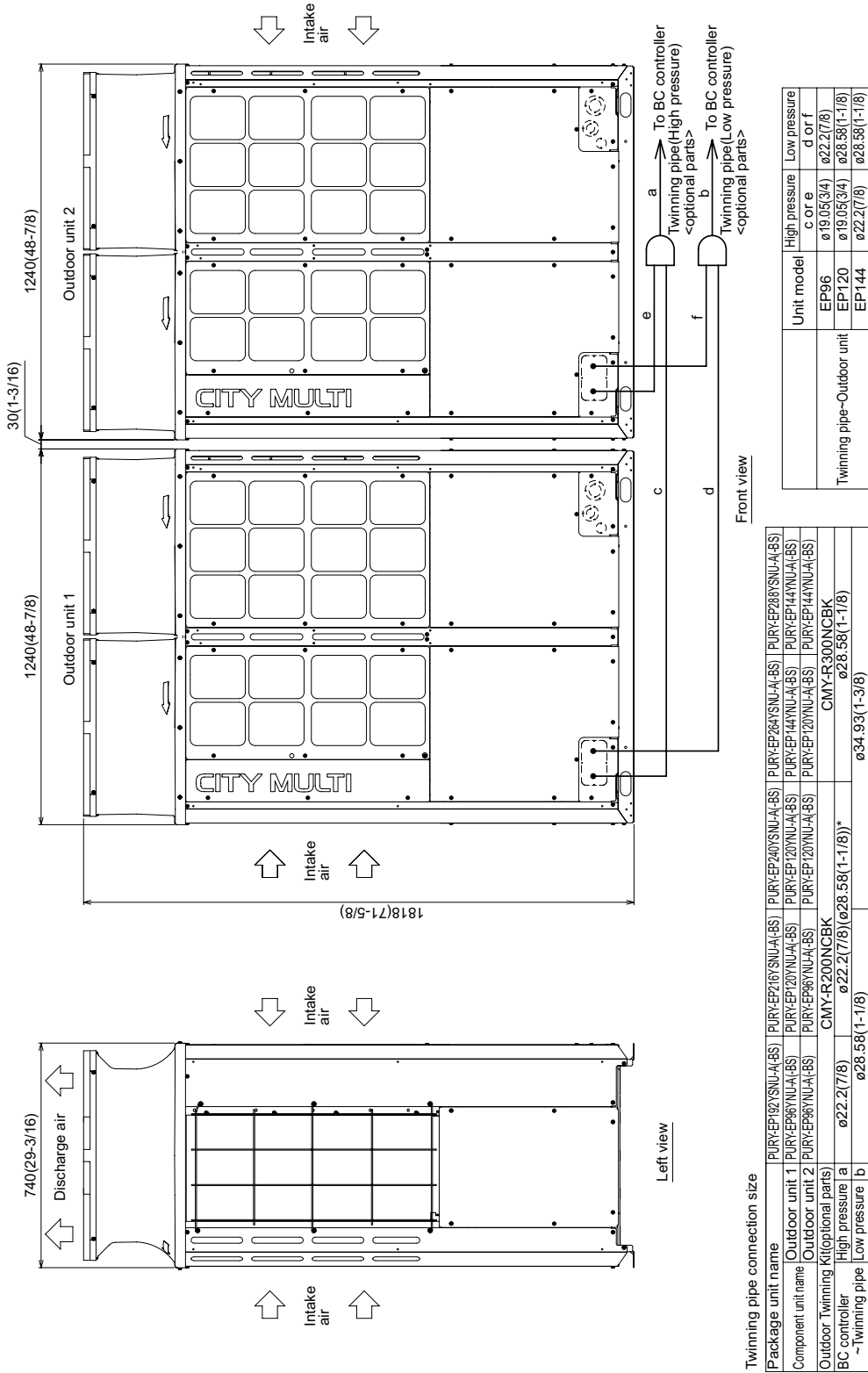
NOTES:
 Nominal cooling conditions (Test conditions are based on AHRI 1230-2023)
 Indoor: 80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.), Outdoor: 95°F D.B. (35°C D.B.)
 Nominal heating conditions (Test conditions are based on AHRI 1230-2023)
 Indoor: 70°F D.B. (21.1°C D.B.), Outdoor: 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)

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

OUTDOOR UNIT: PURY-EP288YSNU-A(-BS) – DIMENSIONS

PURY-EP192, 216, 240, 264, 288YSNU-A(-BS)

Unit: mm(in)



* When the piping length is 65m(213ft) or longer, use the ø28.58(1-1/8) pipe for the part that exceeds 65m(213ft).

Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.
 2. Twinning pipes should not be tilted more than 15 degrees from the horizontal plane. Be sure to see the Installation Manual for details of Twinning pipe installation.
 3. The pipe section before the Twinning pipe (section "a" and "b" in the figure) must have at least 500mm(19-11/16) of straight section (*including the straight pipe that is supplied with the Twinning pipe).
 4. Only use the Twinning pipe by Mitsubishi (optional parts).

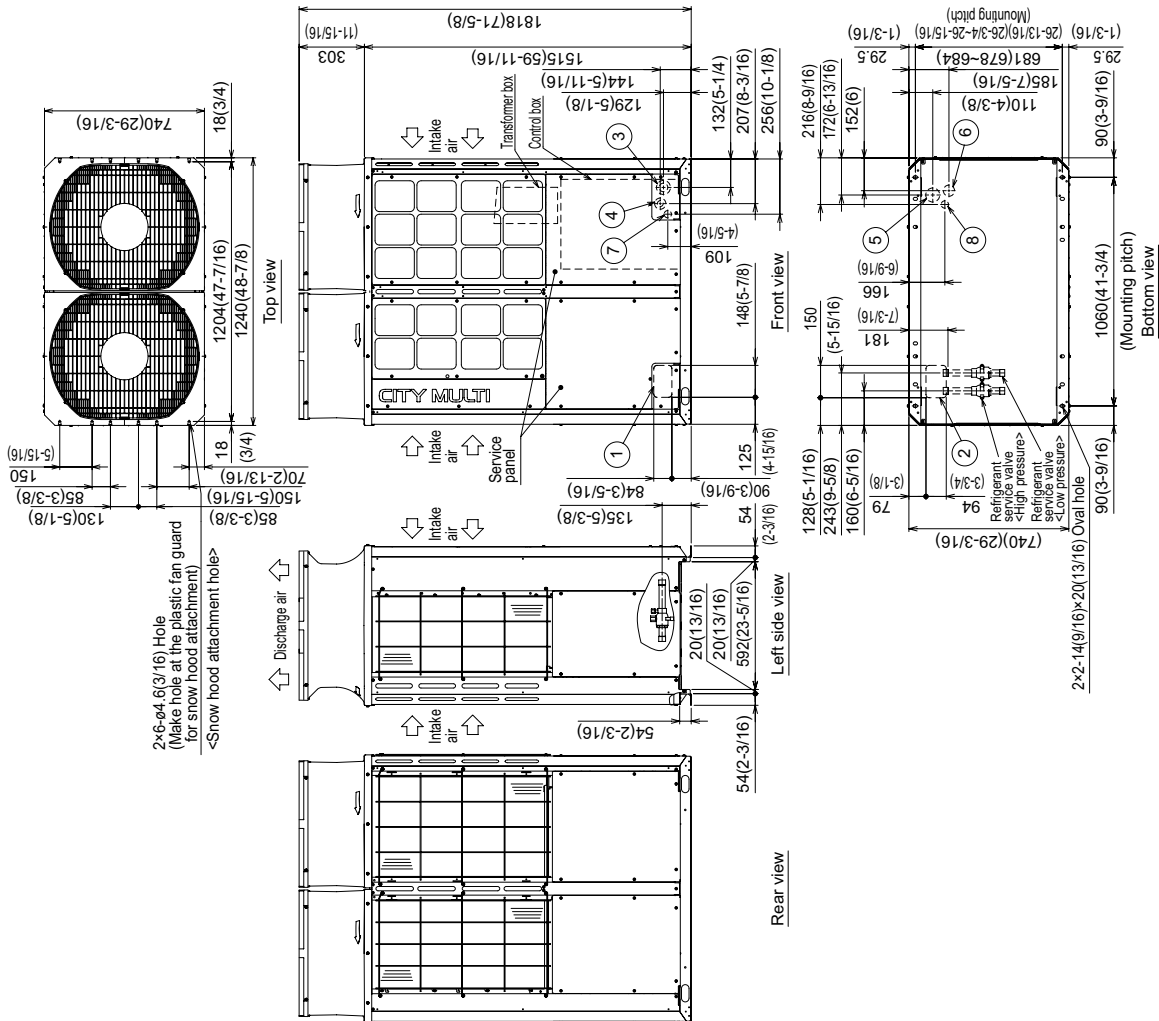
NOTES:
 SEACOAST PROTECTION
 Anti-corrosion Protection: A coating treatment is applied to condenser coil for protection from air contaminants.
 Standard: Salt Spray Test Method - no unusual rust development to 480 hours.
 Sea Coast (BS): Salt Spray Test Method (JRA 9002) - no unusual rust development to 960 hours.

MODULE 1: PURY-EP144YNU-A(-BS) – DIMENSIONS

PURY-EP96, 120, 144YNU-A(-BS)

Unit: mm(in)

Note 1. At brazing of pipes, wrap the refrigerant service valve with wet cloth and keep the temperature of refrigerant service valve under 120°C(248°F).



Connecting pipe specifications

Model	Refrigerant pipe		Service valve	
	High pressure	Low pressure	High pressure	Low pressure
EP96	ø19(5/31/16) Brazed*1	ø22(7/8) Brazed*1	ø28.58(1-1/8)	ø28.58(1-1/8)
EP120	ø19(5/31/16) Brazed*1	ø22(7/8) Brazed*1	ø28.58(1-1/8) Brazed*1	ø28.58(1-1/8)
EP144	ø22(7/8) Brazed*1	ø22(7/8) Brazed*1	ø28.58(1-1/8) Brazed*1	ø28.58(1-1/8)

*1 Connect the refrigerant pipe to the service valve according to the Installation Manual.

NO.	Usage	Specifications
①	Front through hole	148(5-7/8) × 84(3-5/16) Knockout hole
②	Bottom through hole	150(5-15/16) × 94(3-3/4) Knockout hole
③	Front through hole	ø62.7(2-1/2) or ø34.5(1-3/8) Knockout hole
④	Front through hole	ø43.7(1-3/4) or ø22.2(7/8) Knockout hole
⑤	Bottom through hole	ø65(2-9/16) Knockout hole
⑥	Bottom through hole	ø52(2-1/16) Knockout hole
⑦	Front through hole	ø34(1-3/8) Knockout hole
⑧	Bottom through hole	ø34(1-3/8) Knockout hole

NOTES:
SEACOAST PROTECTION

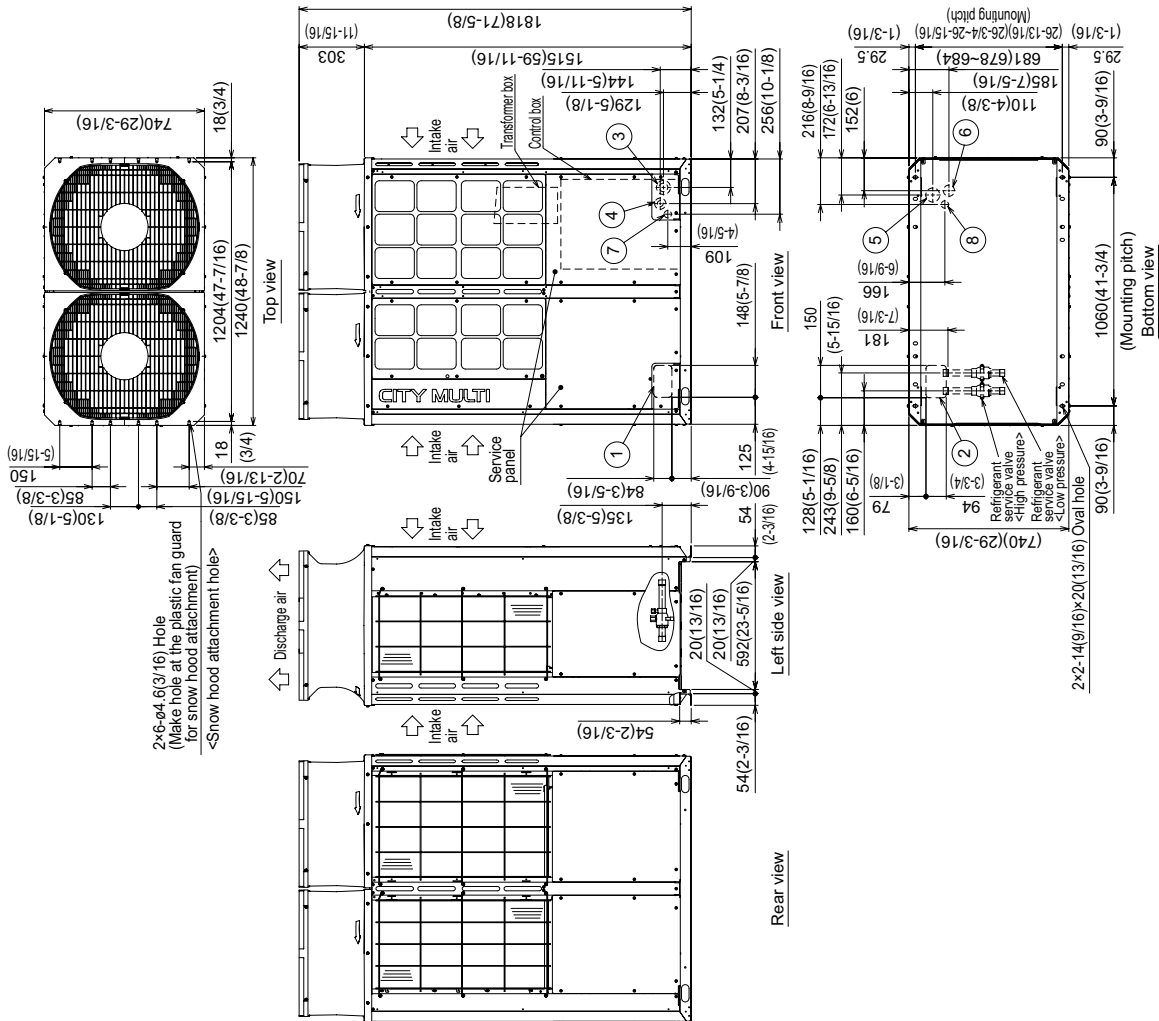
Anti-corrosion Protection: A coating treatment is applied to condenser coil for protection from air contaminants.
Standard: Salt Spray Test Method - no unusual rust development to 480 hours.
Sea Coast (BS): Salt Spray Test Method (JRA 9002) - no unusual rust development to 960 hours.

MODULE 2: PURY-EP144YNU-A(-BS) – DIMENSIONS

PURY-EP96, 120, 144YNU-A(-BS)

Unit: mm(in)

Note 1. At brazing of pipes, wrap the refrigerant service valve with wet cloth and keep the temperature of refrigerant service valve under 120°C(248°F).



Connecting pipe specifications

Model	Refrigerant pipe		Service valve	
	High pressure	Low pressure	High pressure	Low pressure
EP96	ø19(5/31) Brazed*1	ø22(7/8)	ø28.58(1-1/8)	ø28.58(1-1/8)
EP120	ø19(5/31) Brazed*1	ø22(7/8)	ø28.58(1-1/8) Brazed*1	ø28.58(1-1/8)
EP144	ø22(7/8) Brazed*1	ø22(7/8)	ø28.58(1-1/8) Brazed*1	ø28.58(1-1/8)

*1 Connect the refrigerant pipe to the service valve according to the Installation Manual.

NO.	Usage	Specifications
①	Front through hole	148(5-7/8) × 84(3-5/16) Knockout hole
②	Bottom through hole	150(5-15/16) × 94(3-3/4) Knockout hole
③	Front through hole	ø62.7(2-1/2) or ø34.5(1-3/8) Knockout hole
④	Front through hole	ø43.7(1-3/4) or ø22.2(7/8) Knockout hole
⑤	Bottom through hole	ø65(2-9/16) Knockout hole
⑥	Bottom through hole	ø52(2-1/16) Knockout hole
⑦	Front through hole	ø34(1-3/8) Knockout hole
⑧	Bottom through hole	ø34(1-3/8) Knockout hole

NOTES:
SEACOAST PROTECTION

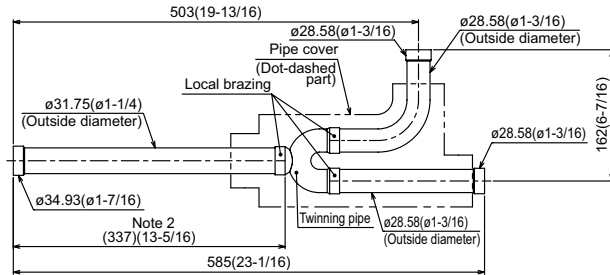
Anti-corrosion Protection: A coating treatment is applied to condenser coil for protection from air contaminants.
Standard: Salt Spray Test Method - no unusual rust development to 480 hours.
Sea Coast (BS): Salt Spray Test Method (JRA 9002) - no unusual rust development to 960 hours.

TWINNING KIT: CMY-R300NCBK – DIMENSIONS

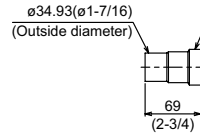
CMY-R300NCBK

Unit: mm (in.)

Low-pressure twinning pipe

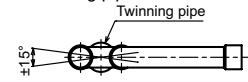


<Deformed pipe(Accessory)>



Note:

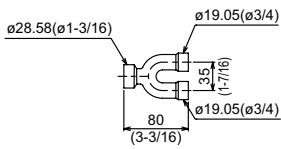
1. Refer to the figure below for the installation position of the twinning pipe.



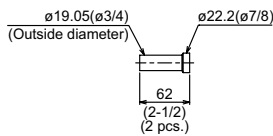
Slope of the twinning pipes are at an angle within $\pm 15^\circ$ to the horizontal plane.

2. Use the attached pipe to braze the port-opening of the twinning pipe.
3. Pipe diameter is indicated by inside diameter.

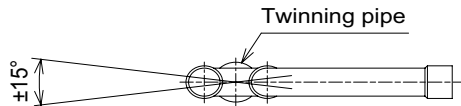
High-pressure twinning pipe



<Deformed pipe(Accessory)>



Note 1. Reference the attitude angle of the twinning pipe below the fig.



The angle of the twinning pipe is within $\pm 15^\circ$ against the horizontal plane.

2. Use the attached pipe to braze the port-opening of the twinning pipe.
3. Pipe diameter is indicated by inside diameter.
4. Only use the Twinning pipe by Mitsubishi (optional parts) .

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