

Job Name:

Schedule Reference:

Date:

**UNIT OPTION**

Standard Model PURY-P312TSNU-A

Seacoast (BS) Model PURY-P312TSNU-A-BS

Minimum Operating Temperature
Heating (Outdoor): -25°F (-32°C) WB
Below -22°F (-30°C) WB,
an auxiliary heating source is highly recommended.
System requires firmware Ver. 26.35 or later.

ACCESSORIES

Snow/Wind Guards - (See separate submittal)

Panel Heater - (PAC-PH02EHYU-E) (x1) Panel

Heater - (PAC-PH03EHYU-E(1)) (x1)

Note: Mitsubishi Electric (MESCA) supports the use of only MESCA supplied and approved Snow Guard / Wind Deflectors / Windscreens and accessories for proper functioning of the unit(s). Use of non-MESCA supported Snow Guard / Wind Deflectors / Windscreens and accessories will affect warranty coverage.

- Notes:
1. Nominal cooling conditions (Test conditions are based on AHRI 1230)
Indoor: 80°F DB, 67°F WB, 26.7" CD B, 19.4" CW B, 1.0. Outdoor: 95°F DB, (35" CD B, 1.0)
 2. Nominal heating conditions (Test conditions are based on AHRI 1230)
Indoor: 70°F DB, 21.1" CD B, 1.0. Outdoor: 47°F DB, 43°F WB, 8.3" CD B, 6.1" CW B, 1.0
 3. 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.
 4. Cooling mode/Heating mode
 5. External static pressure option is available (0.12 in. WG, 0.24 in. WG, 0.32 in. WG/30 Pa, 60 Pa, 80 Pa).
- * Due to continuing improvement, above specifications may be subject to change without notice.

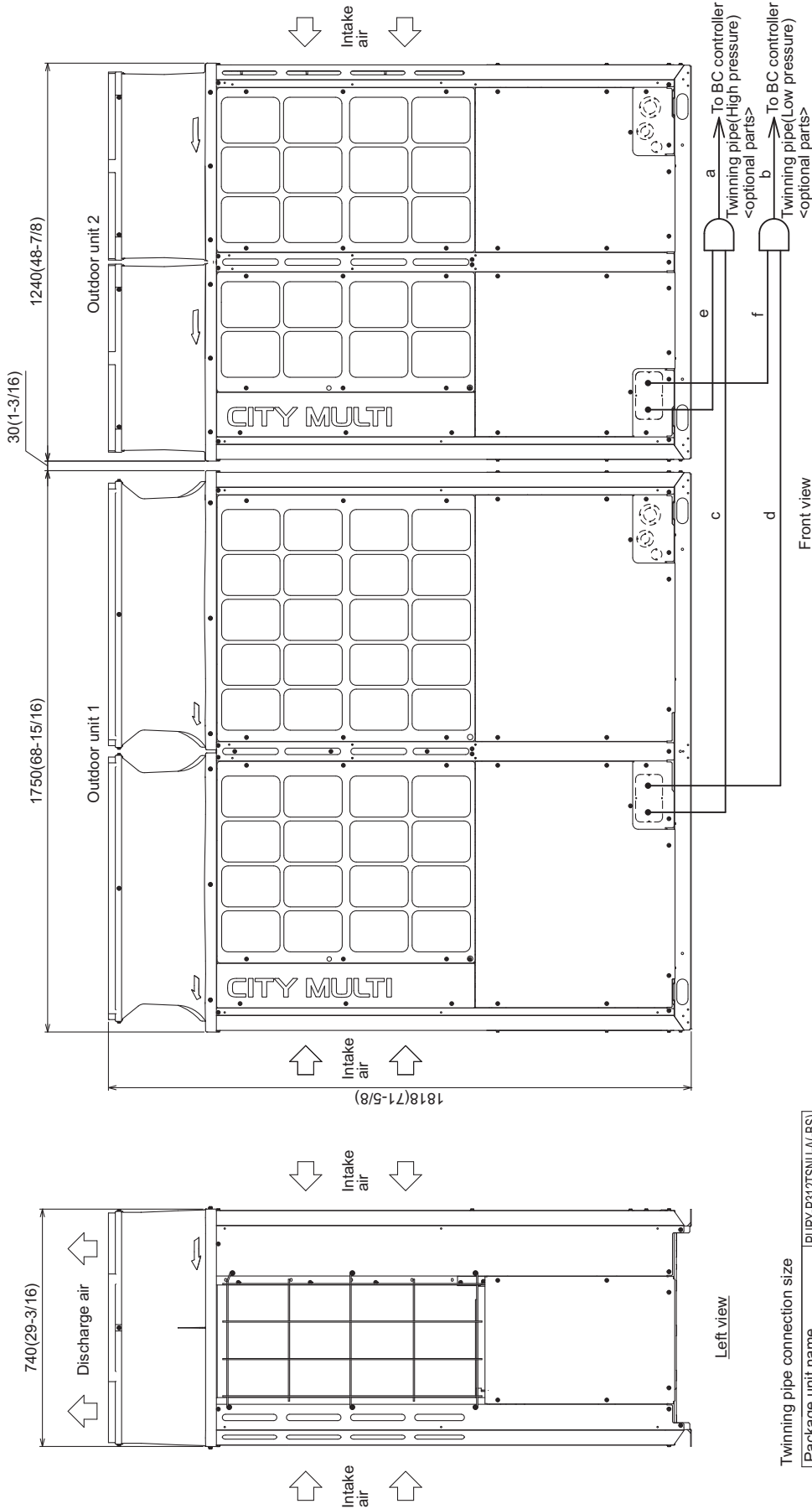
Outdoor Model				PURY-P312TSNU-A (-BS)			
Indoor Model				Non-Ducted		Ducted	
Power source				3-phase 3-wire 208-230 V ±10% 60 Hz			
Cooling capacity *1 (Nominal)			BTU/h	312,000			
			kW	91.4			
(208-230)	Power input	kW	29.8				
		Current input	A	91.9-83.1			
	(Rated)	BTU/h	298,000				
		kW	87.3				
(208-230)	Power input	kW	31.42		31.71		
	Current input	A	96.9-87.6		97.7-88.4		
Temp. range of cooling		Indoor	W.B.	59~75°F (15~24°C)			
		Outdoor	D.B.	23~126°F (-5~52°C)			
Heating capacity *2 (Nominal)			BTU/h	350,000			
			kW	102.6			
(208-230)	Power input	kW	30.75				
		Current input	A	94.8-85.7			
	(Rated)	BTU/h	334,000				
		kW	97.9				
(208-230)	Power input	kW	28.50		28.10		
	Current input	A	87.8-79.4		86.6-78.3		
Temp. range of heating *3		Indoor	D.B.	59~81°F (15~27°C)			
		Outdoor	W.B.	-13~60°F (-25~15.5°C)			
Indoor unit		Total capacity		50~150% of outdoor unit capacity			
connectable		Model/Quantity		P04~P96/2~50			
Sound power level (measured in anechoic room) *4			dB <A>	87.0/88.5			
Refrigerant		High pressure	in. (mm)	1-1/8 (28.58) Brazed			
piping diameter		Low pressure	in. (mm)	1-5/8 (41.28) Brazed			

Set Model

Model			PURY-P168TNU-A (-BS)	PURY-P144TNU-A (-BS)
Minimum Circuit Ampacity (*)		A	66-64	60-55
Maximum Overcurrent Protection (*)		A	110-100	100-90
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	14,850	9,550
		m3/min	420	270
	Control, Driving mechanism		Inverter-control, Brushless DC motor	Inverter-control, Brushless DC motor
	Motor output	kW	0.92+0.92	0.46+0.46
	*5 External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method		Inverter	Inverter
	Motor output	kW	12.2	9.9
	Case heater	kW		
	Lubricant		MEL32	MEL32
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>
External dimension H x W x D		in.	71-5/8 x 68-15/16 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16
		mm	1,818 x 1,750 x 740	1,818 x 1,240 x 740
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-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Fan motor		-	-
Refrigerant	Type x original charge		R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)
	Control		Indoor LEV and BC controller	
Net weight		lbs (kg)	739 (335)	646 (293)
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube
HIC circuit (HIC: Heat Inter-Changer)			-	-
Pipe between unit and distributor	High pressure	in. (mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed
	Low pressure	in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)	
Optional parts	Outdoor Twinning kit: CMY-R300NCBK			
	Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-Y202S-G2,CMY-R160-J1			
	CMY-R201,202,203,204,205,306S-G, CMY-R302,303,304,305S-G1			
	Main BC controller: CMB-P108,1012,1016NU-JA1,CMB-P1016NU-KA1			
	Sub BC controller: CMB-P104,108NU-KB1			

Specifications are subject to change without notice.

Module: PURY-P312TSNU-A(-BS) - DIMENSIONS



Twinning pipe connection size

Package unit name	PURY-P312TSNU-A(-BS)
Outdoor unit 1	PURY-P168TNU-A(-BS)
Outdoor unit 2	PURY-P144TNU-A(-BS)
Outdoor Twinning Kit(optional parts)	CMY-R300NCEBK
BC controller	CMY-R300NCEBK
~Twinning pipe	High pressure a ø28.58(1-1/8)
	Low pressure b ø41.28(1-5/8)

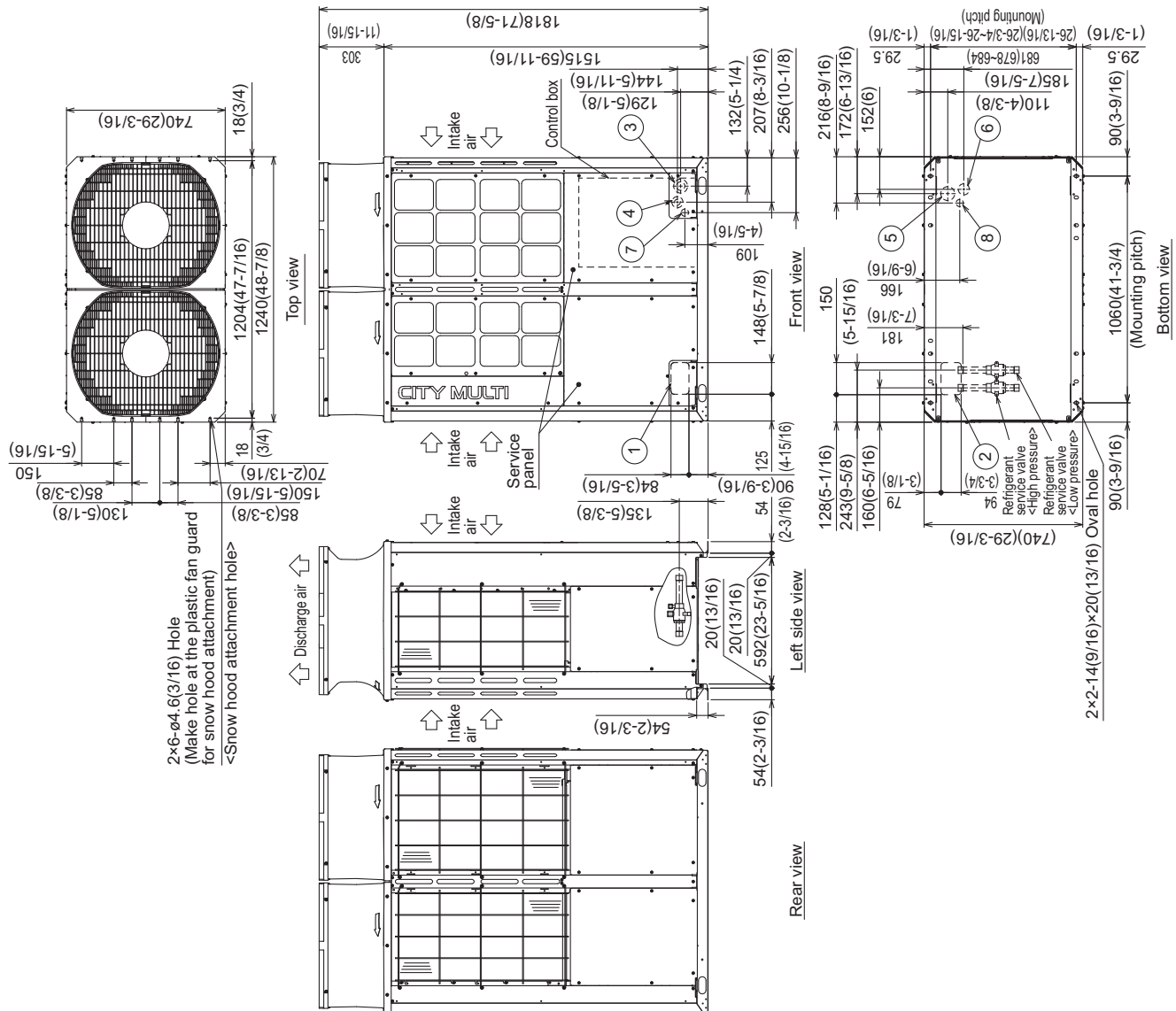
Twinning pipe-Outdoor unit	Unit model	High pressure c or e	Low pressure d or f
P144	P144	ø22.2(7/8)	ø28.58(1-1/8)
P168	P168	ø22.2(7/8)	ø28.58(1-1/8)

- 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).

Unit: mm (in.)

Module: PURY-P144TNU-A - DIMENSIONS

Note 1. Please refer to the next page for information regarding necessary spacing around the unit and foundation work.
2. 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	Diameter			
	Refrigerant pipe		Service valve	
P96	High pressure	Low pressure	High pressure	Low pressure
P120	ø19.05(3/4) Brazed *1	ø22.2(7/8) Brazed *1	ø28.58(1-1/8)	ø28.58(1-1/8)
P144	ø22.2(7/8) Brazed *1	ø28.58(1-1/8) Brazed *1	ø34(1-3/8)	ø34(1-3/8)

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

NO.	Usage		Specifications
	For pipes	For wires	
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

Unit: mm (in.)

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Module: PURY-P168TNU-A(-BS) - DIMENSIONS

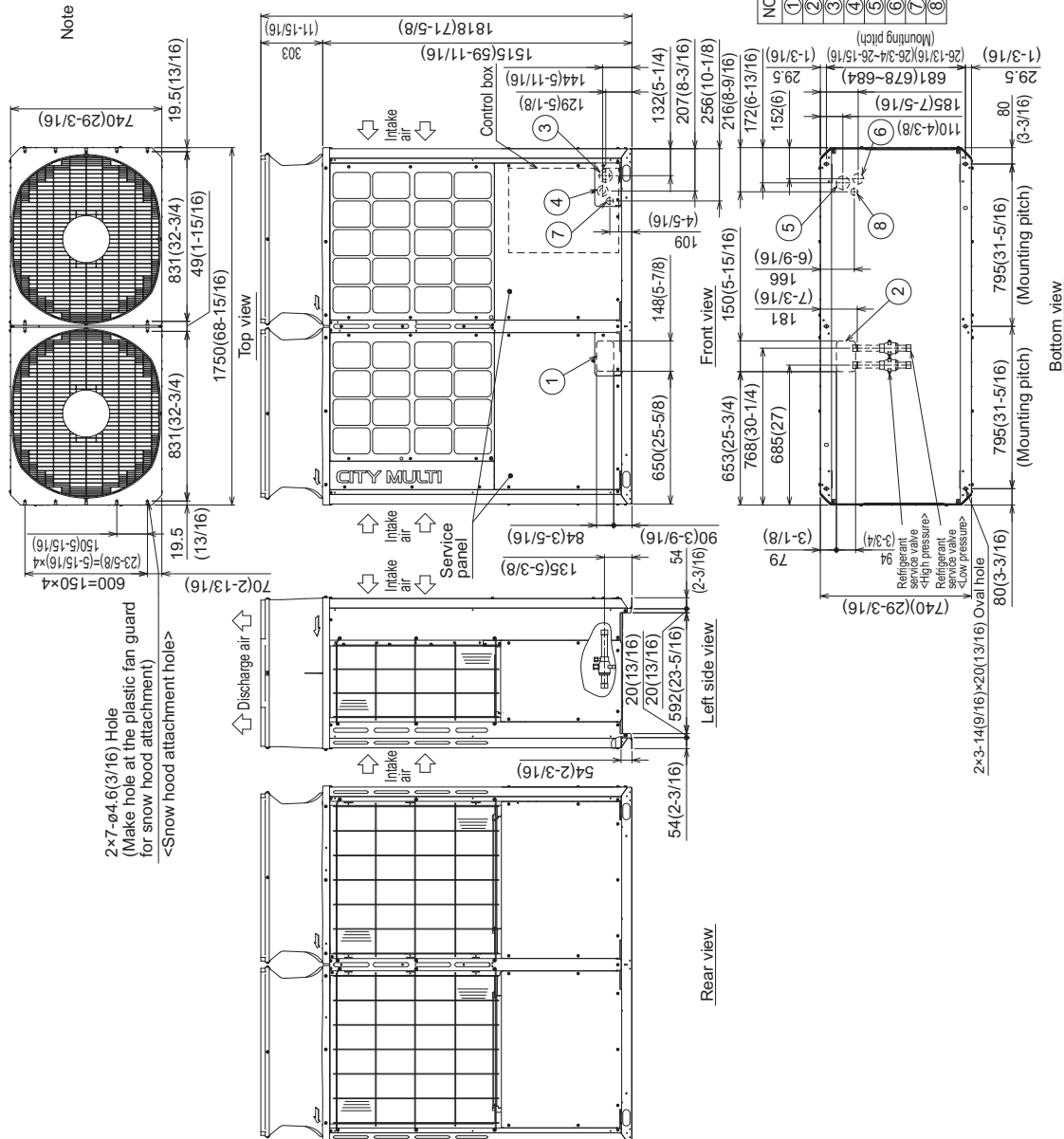
Unit: mm (in.)

Note 1. Please refer to the next page for information regarding necessary spacing around the unit and foundation work.
2. 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	Diameter			
	Refrigerant pipe		Service valve	
P168	High pressure	Low pressure	High pressure	Low pressure
	ø22(7/8) Brazed*1	ø28.3(1-1/8) Brazed	ø28.3(1-1/8)	ø28.3(1-1/8)

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



No.	Usage	Specifications
①	For pipes	Front through hole 146(5-7/8) x 84(3-5/16) Knockout hole
②		Bottom through hole 150(5-15/16) x 94(3-3/4) Knockout hole
③		Front through hole ø62.7(2-1/2) or ø34.5(1-3/8) Knockout hole
④	For wires	Front through hole ø43.7(1-3/4) or ø22.7(7/8) Knockout hole
⑤		Bottom through hole ø65.2(2-9/16) Knockout hole
⑥		Bottom through hole ø62.2(2-1/16) Knockout hole
⑦	For transmission cables	Front through hole ø34(1-3/8) Knockout hole
⑧		Bottom through hole ø34(1-3/8) Knockout hole

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