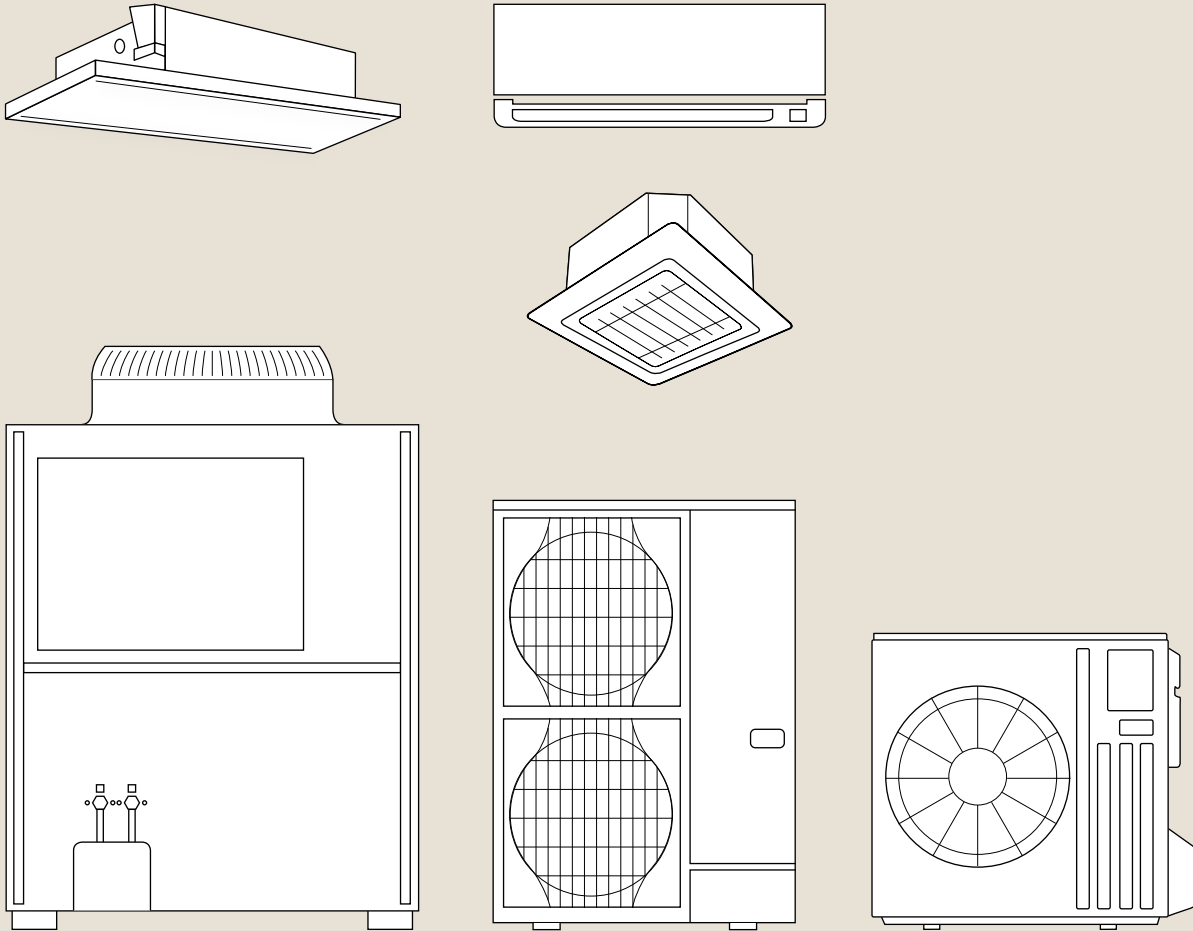
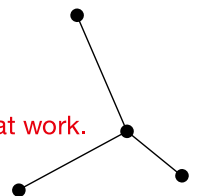


Living Environment Systems



Technical information

Appendix air conditioning and ventilation programme 2021 / 2022



Mitsubishi Electric LES
provides specialist knowledge
for shared success:

listening and understanding.

Developing intelligent products.

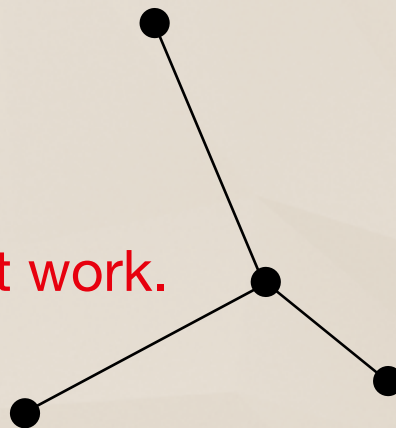
Providing skilled advice.

Discovering trends.

Shaping the future.

Turning expertise into solutions.

Knowledge at work.





Series
// M-series
// Mr. Slim
// Lossnay





MITSUBISHI ELECTRIC

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3. Lossnay

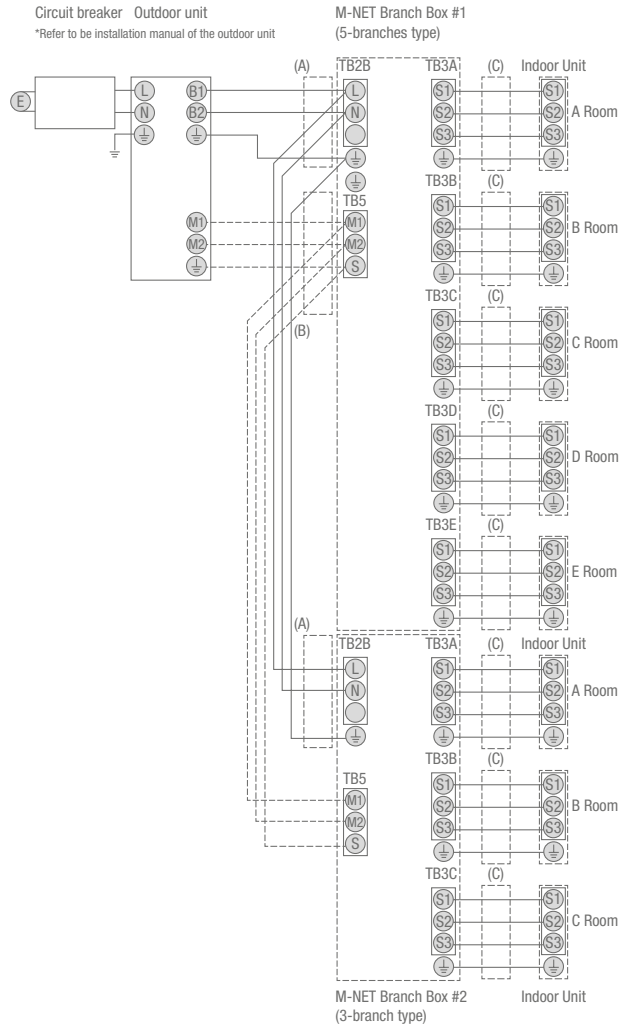
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1. M-series

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Electrical connection diagram PUMY

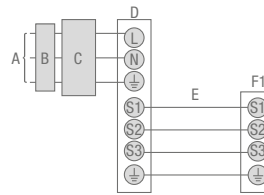


- (A) Voltage supply to connection boxes (via outdoor unit)
- (B) Communication connection from outdoor unit to connection boxes
- (C) Voltage supply and communication of indoor unit

Notes:

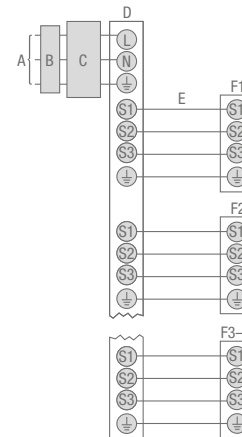
1. The size of the electrical line must comply with the respective local and national statutory regulations.
2. At least one polychloroprene-coated flexible cable (corresponding to 60245 IEC 57) must be used for the power supply and for connecting the indoor unit and outdoor system.
3. Install an earth line that is longer than the other cables.

Electrical connection diagram M-series single-split inverter



- A Voltage supply of outdoor unit
- B Fault-current circuit breaker
- C Fuse
- D Outdoor unit
- E Connection cable, outdoor unit – indoor unit
- F1 Indoor unit

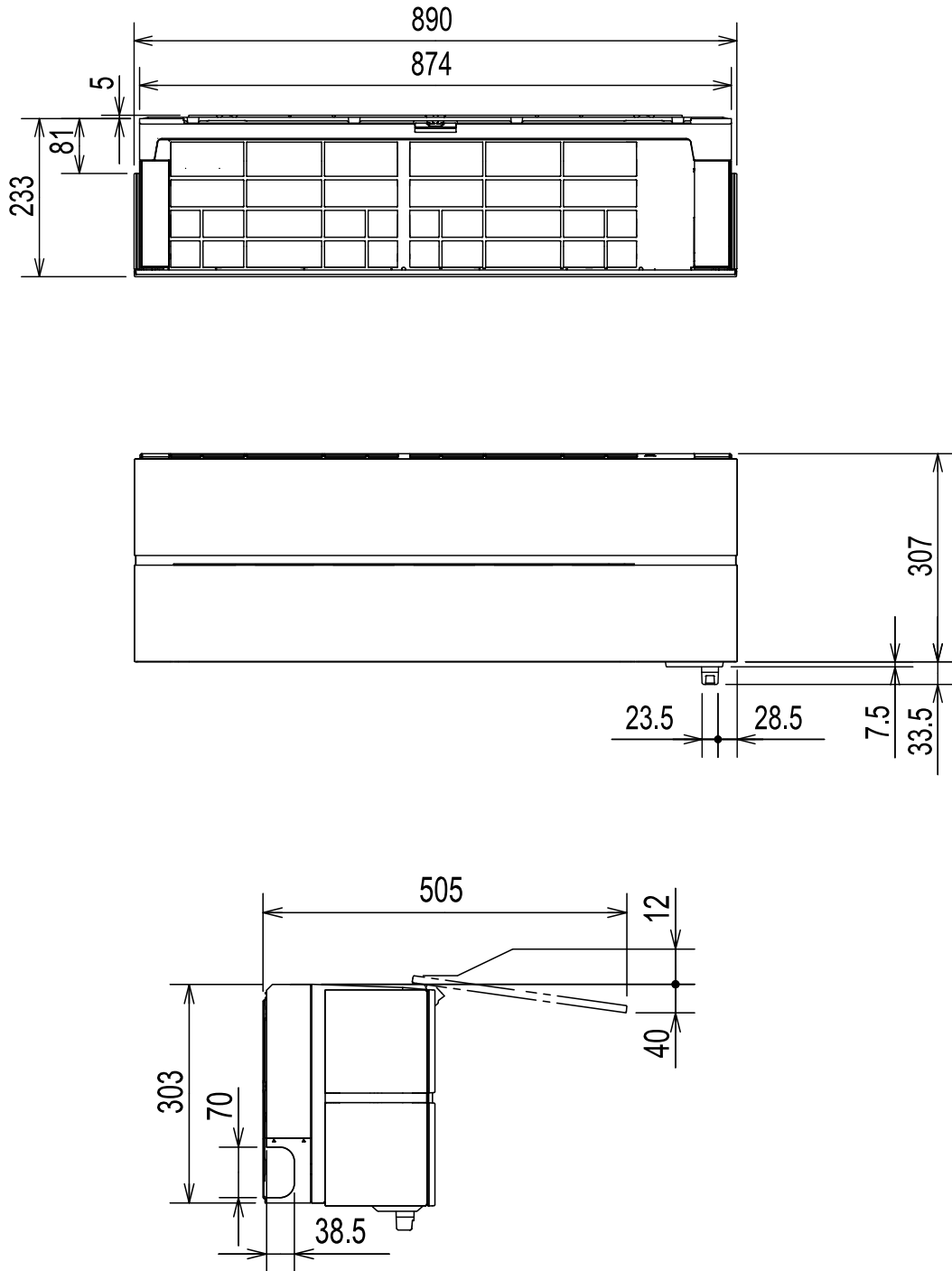
Electrical connection diagram MXZ multi-split inverter, 2-6 indoor units



- A Voltage supply of outdoor unit
- B Fault-current circuit breaker
- C Fuse
- D Outdoor unit
- E Connection cable, outdoor unit – indoor units
- F1 – F6 Indoor units no. 1 to no. 6

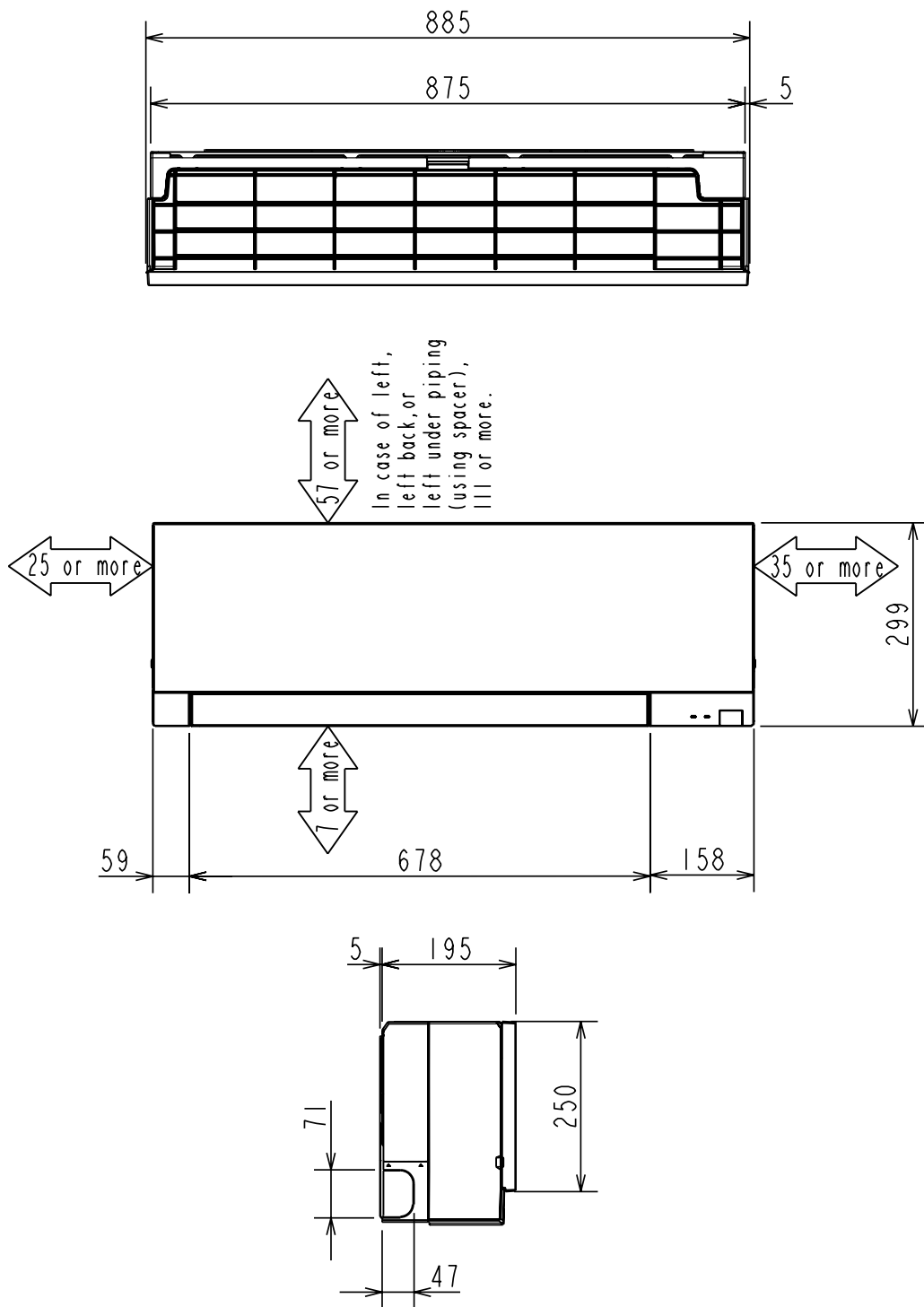
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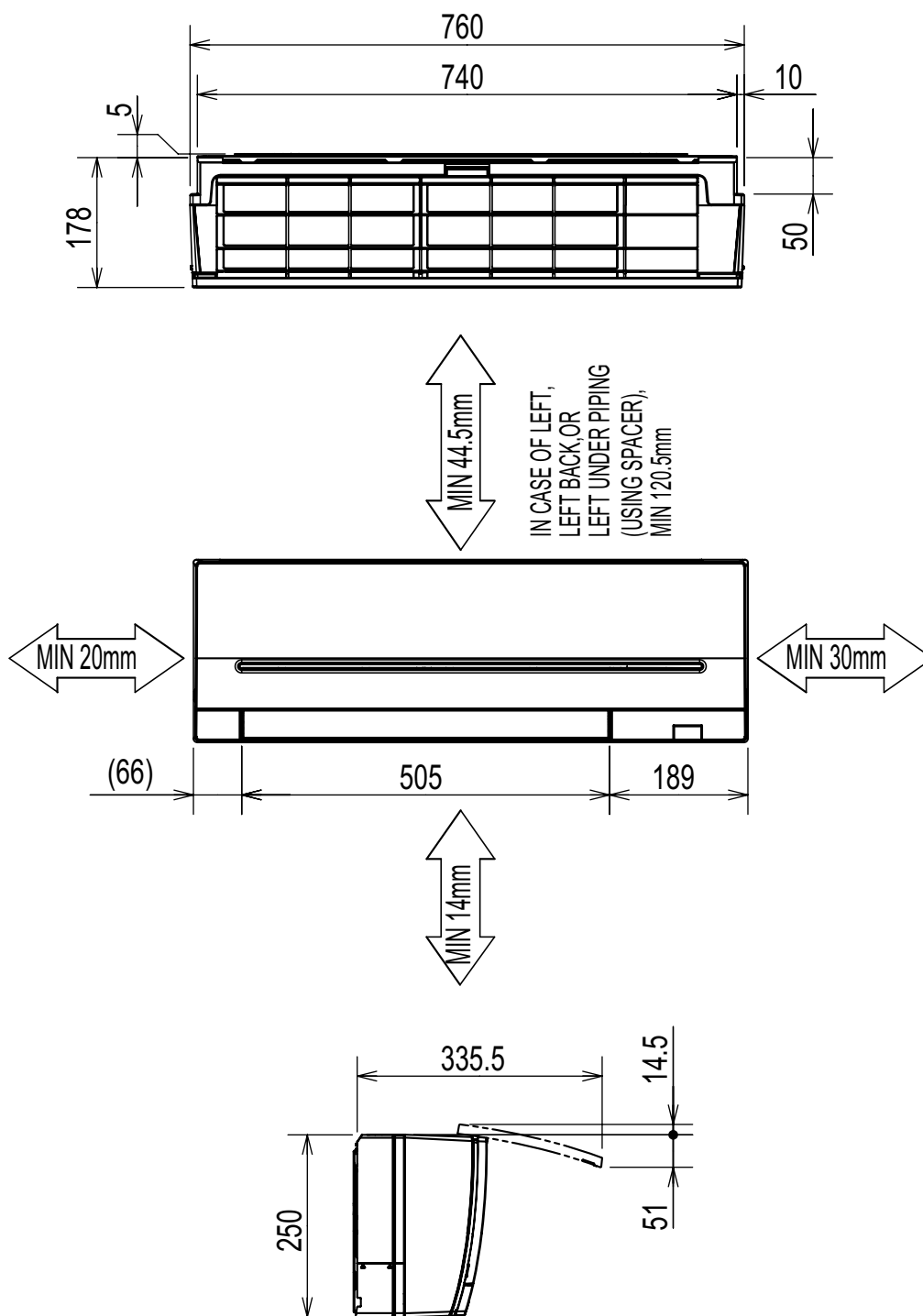
1.6 MSZ EF18-50VGK W/B/S
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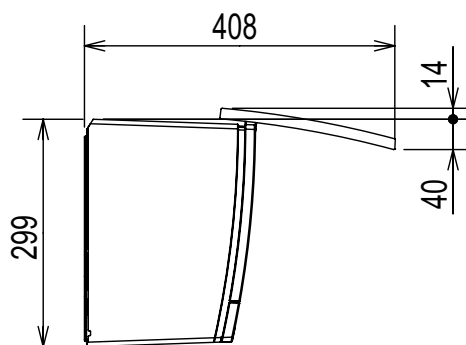
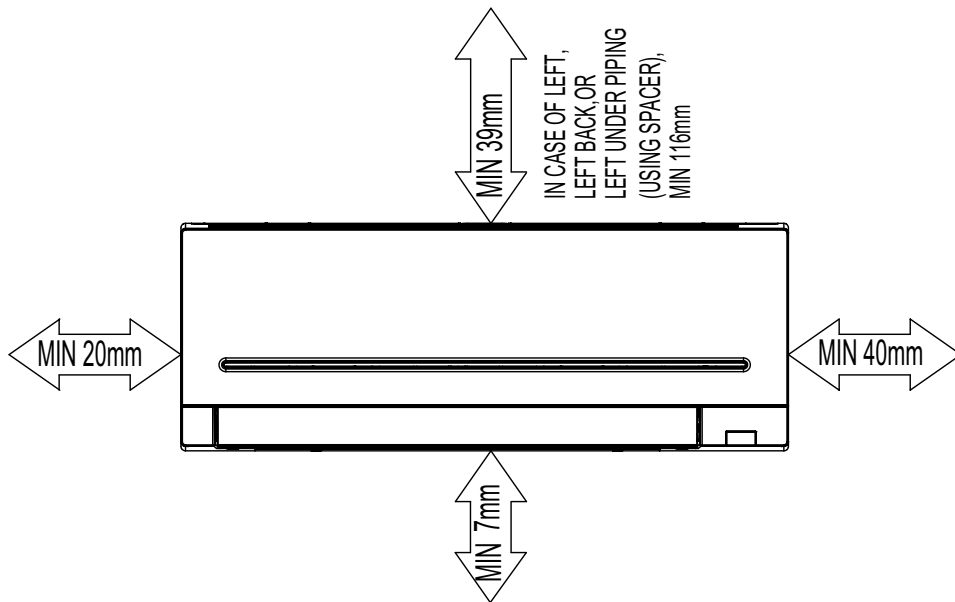
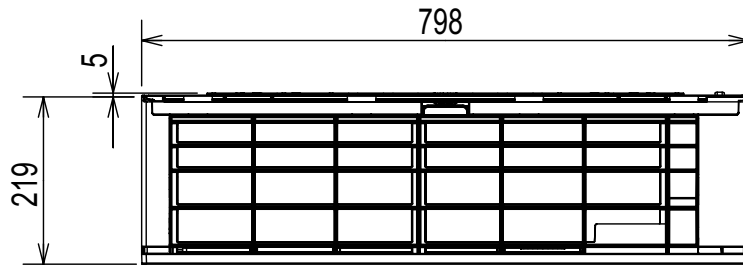
1.7 MSZ-AP15/20VGK
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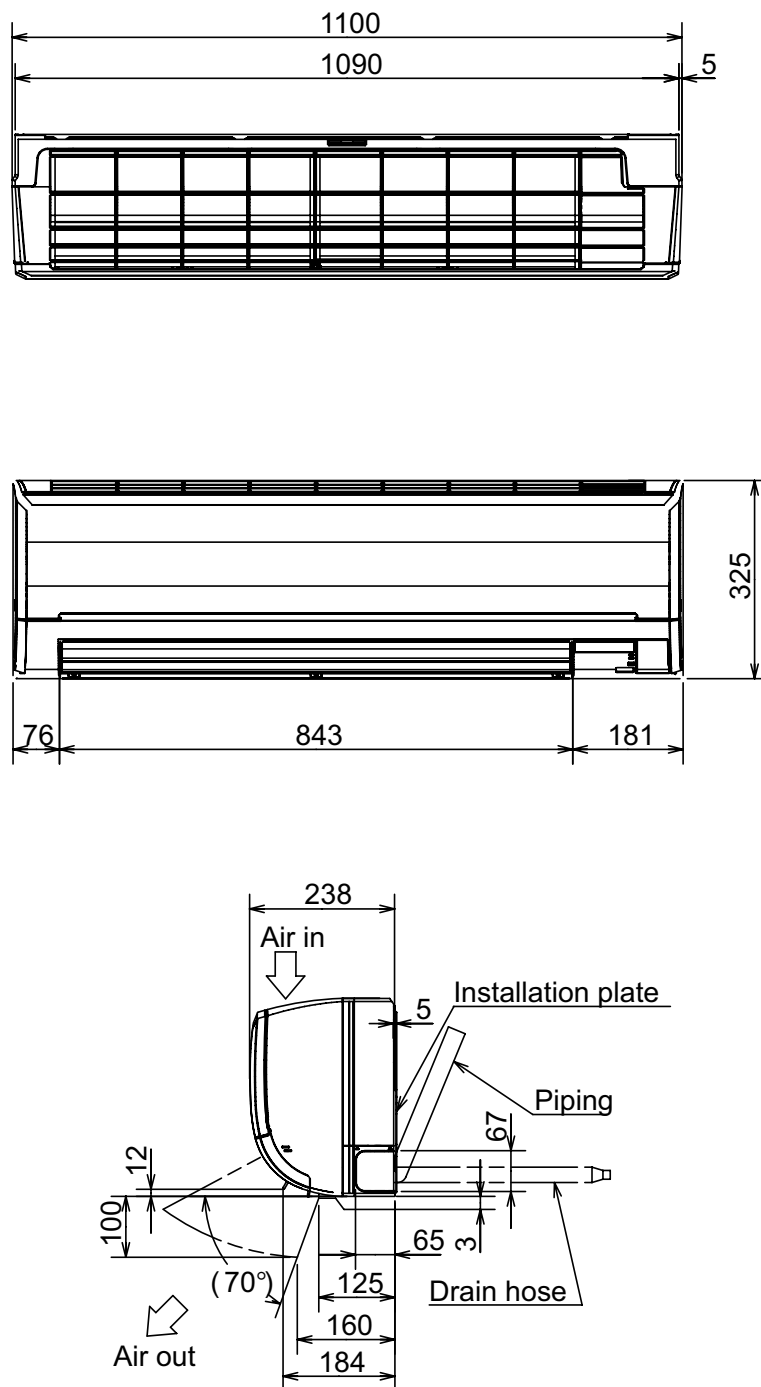
1.8 MSZ-AP25-50VGK
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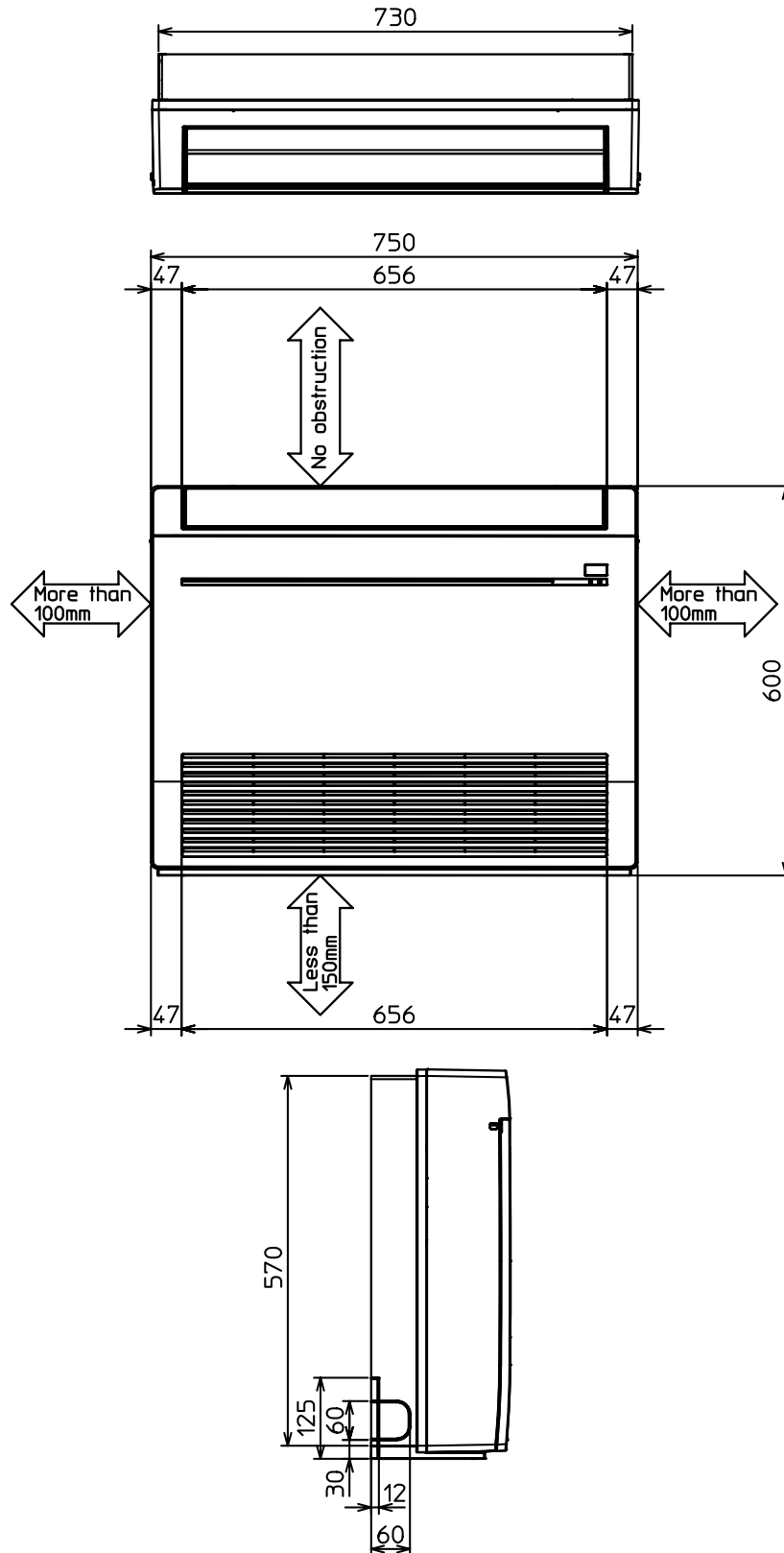
1.9 MSZ-AP60/71VGK
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1.10 MFZ-KT25-60VG
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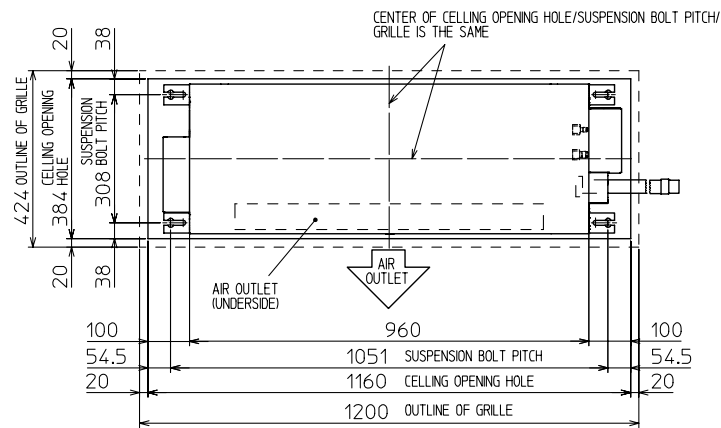
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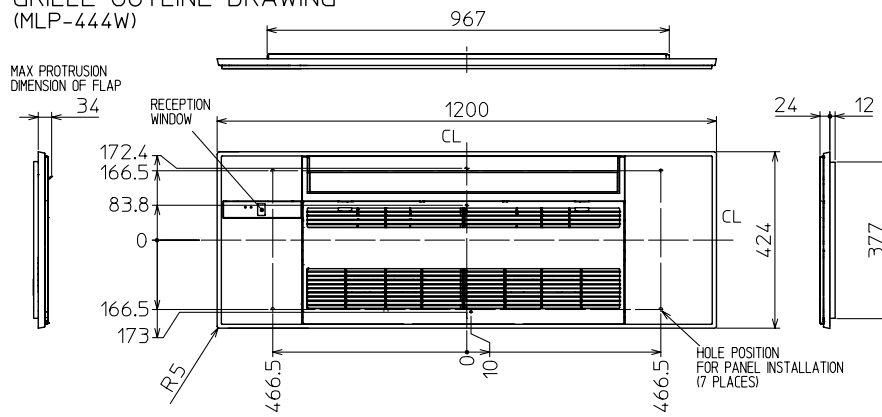
1.11 MLZ-KP25-50VF
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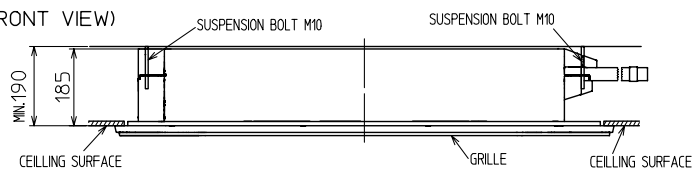
INDOOR UNIT DETAIL VIEW
(TOP VIEW)



GRILLE OUTLINE DRAWING
(MLP-444W)

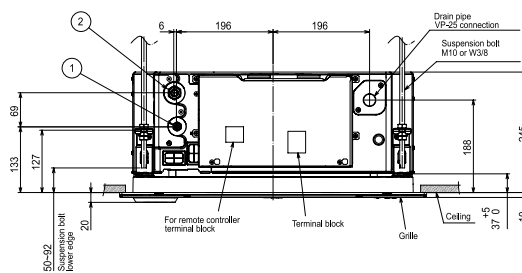
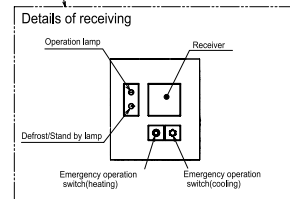
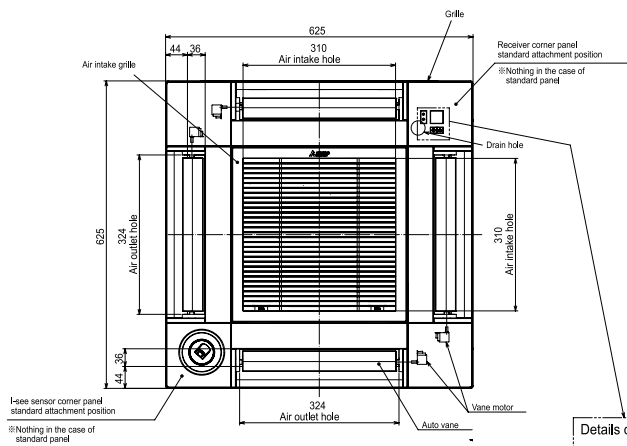
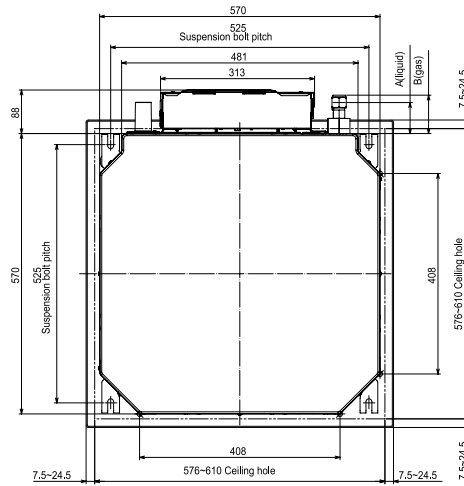


(FRONT VIEW)



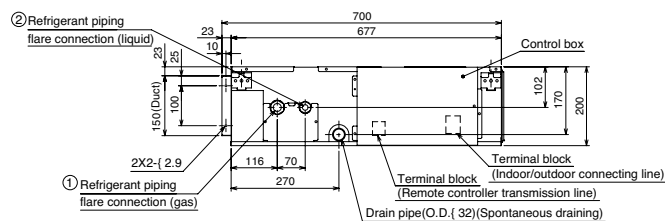
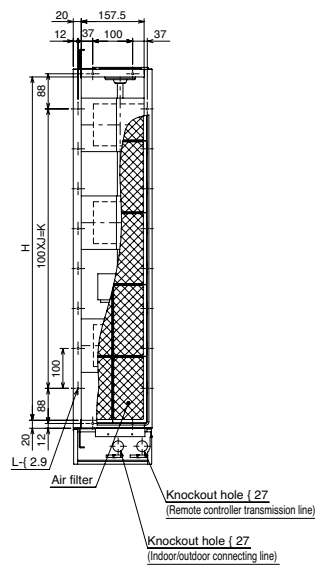
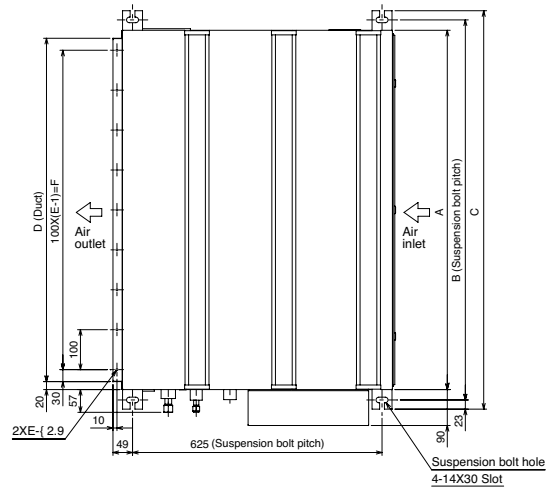
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1.13 SEZ-M25-71DA
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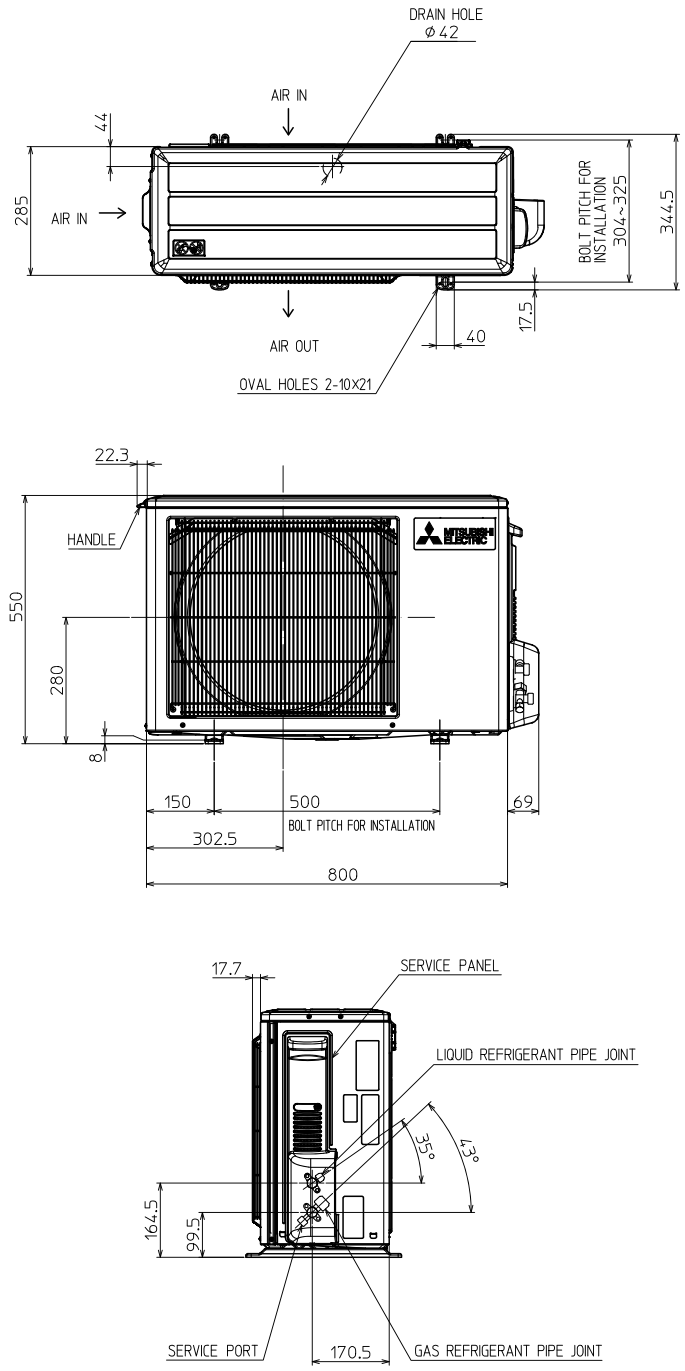


Model	A	B	C	D	E	F	G	H	J	K	L	① Gas pipe	② Liquid pipe
SEZ-M25DA(L)	700	752	798	660	7	600	800	660	5	500	16	φ9.52	φ6.35
SEZ-M35DA(L)	900	952	998	860	9	800	1000	860	7	700	20		
SEZ-M50DA(L)	1100	1152	1198	1060	11	1000	1200	1060	9	900	24	φ12.7	φ9.52
SEZ-M60DA(L)												φ15.88	
SEZ-M71DA(L)													

- Note1. Use M10 screw for the suspension bolt (field supply).
 2. Keep the service space for the maintenance at the bottom.
 3. This chart indicates for SEZ-M50DA(L) model, which has 3 fans.
 SEZ-M25, 35DA(L) models have 2 fans.
 SEZ-M60, 71DA(L) models have 4 fans.
 4. In case an inlet duct is used, remove the air filter (supply with the unit), then install the filter (field supply) at suction side.

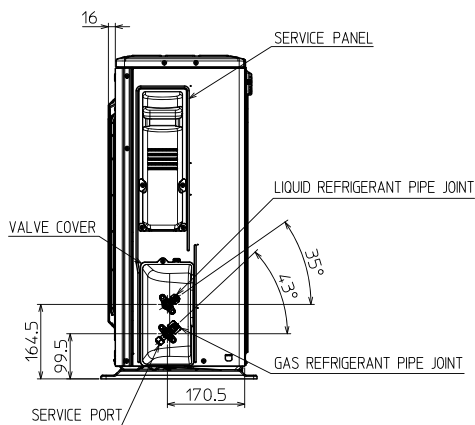
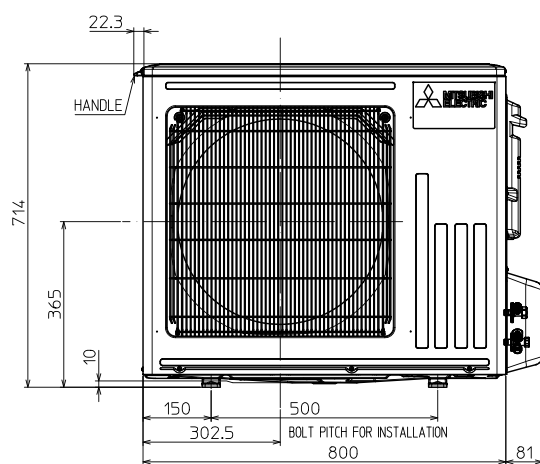
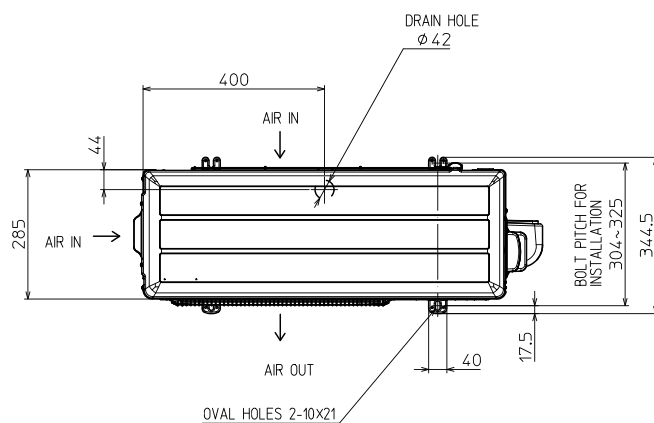
1.14 MUZ-LN25/35VG2
 MUZ inverter outdoor units

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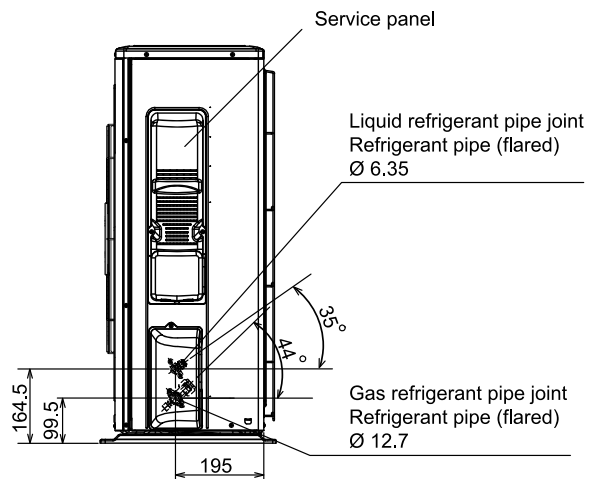
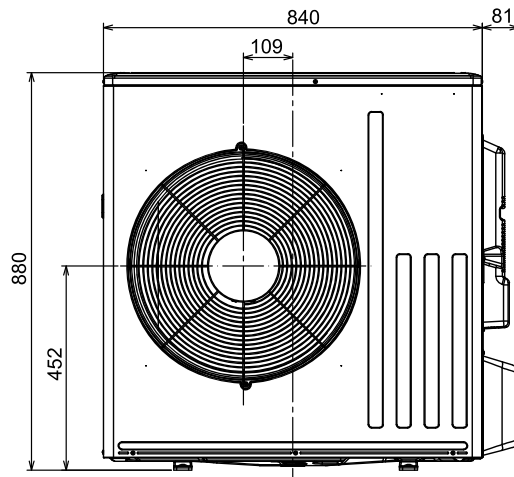
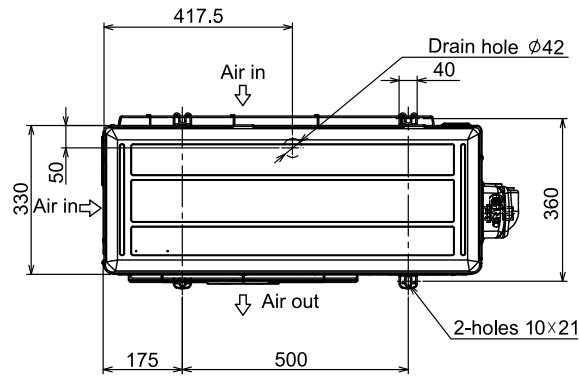
1.15 MUZ-LN50VG2
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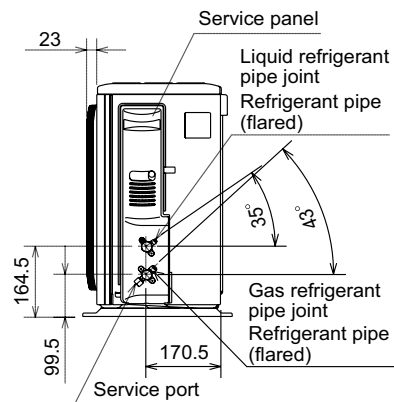
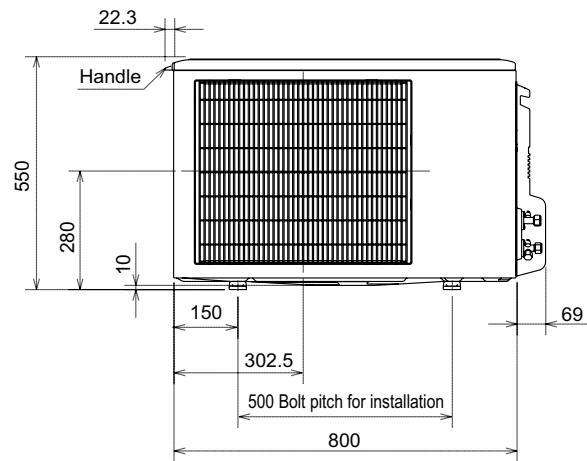
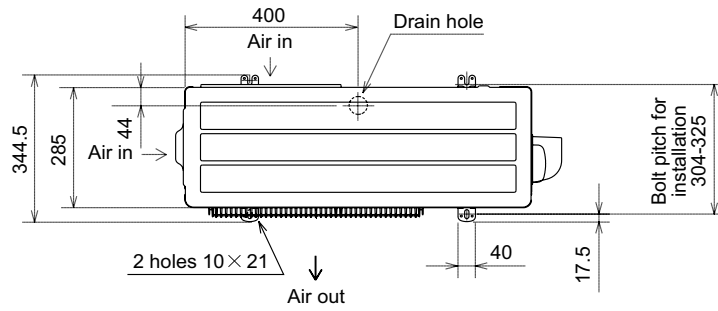
1.16 MUZ-LN60VG
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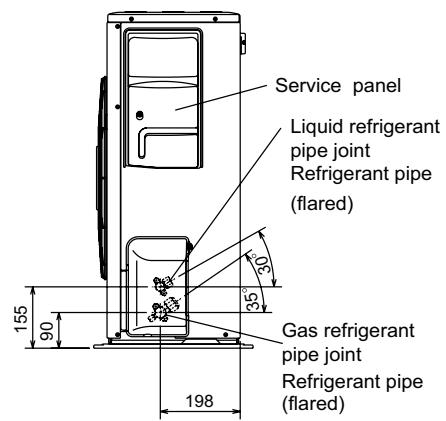
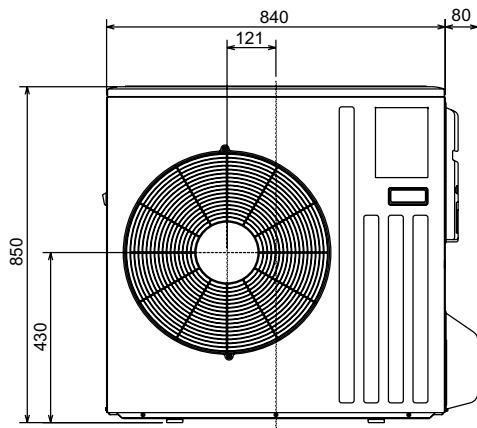
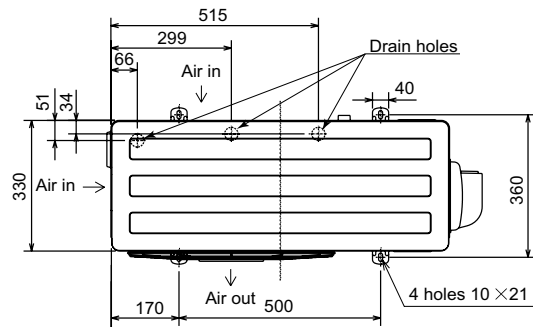
1.17 MUZ-EF25-42VG
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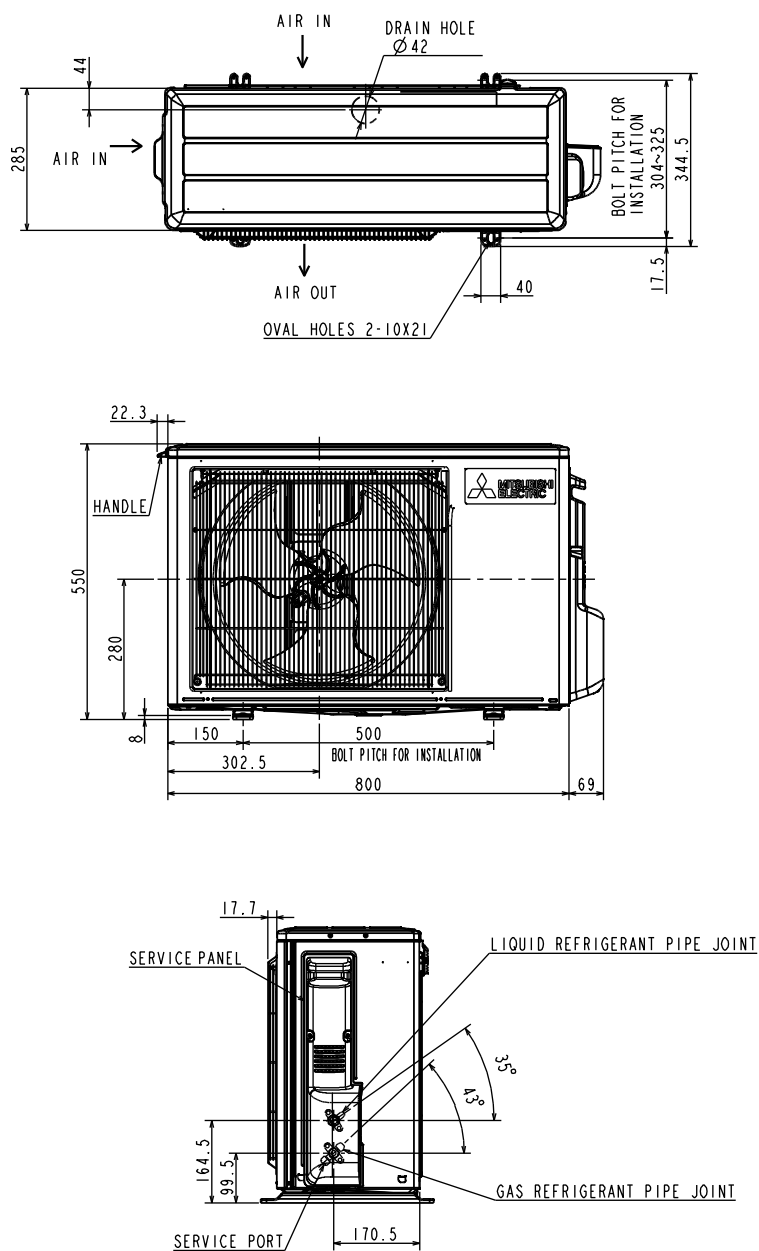
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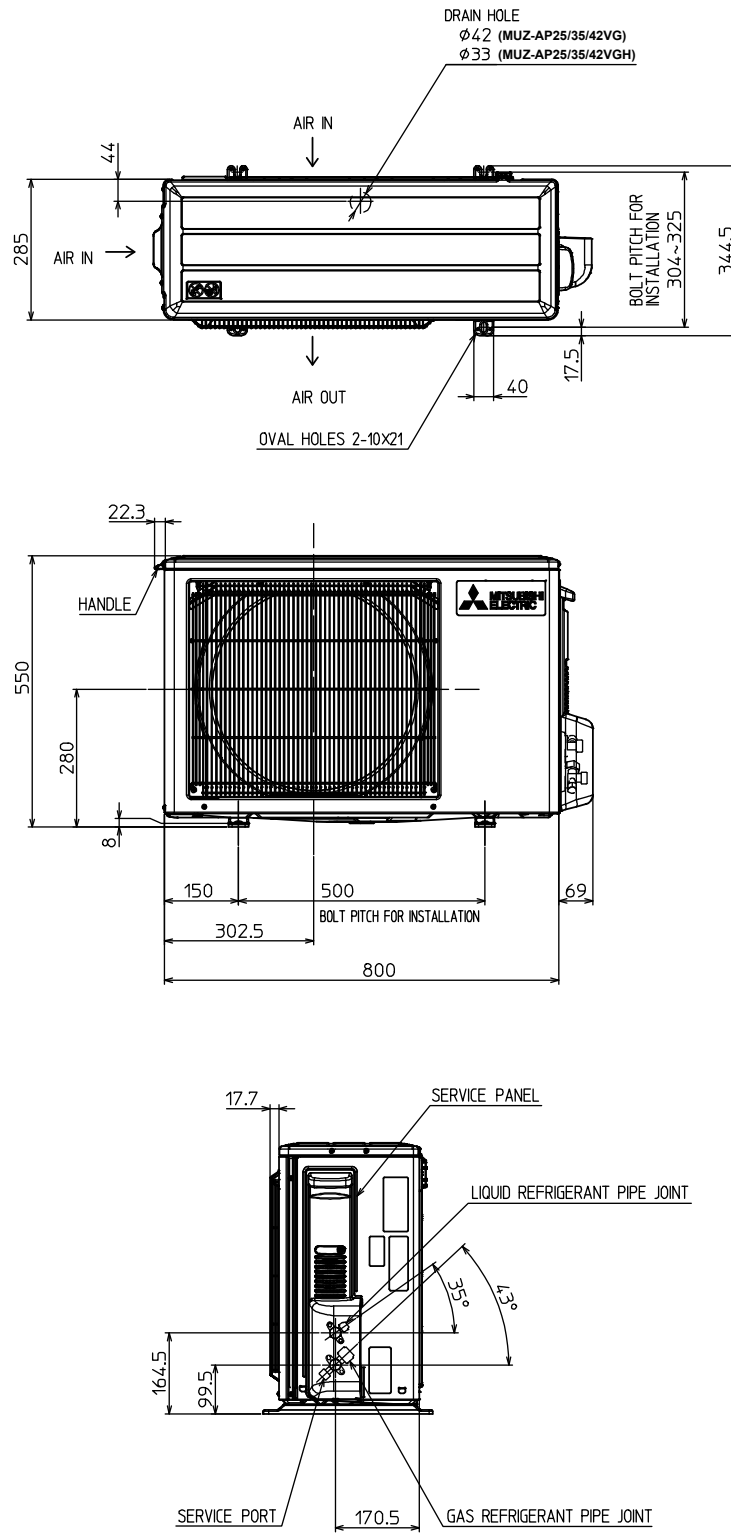
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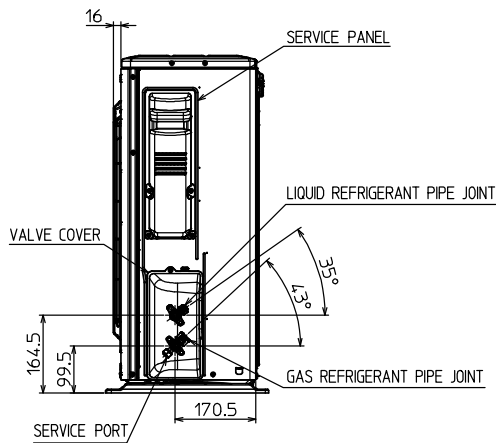
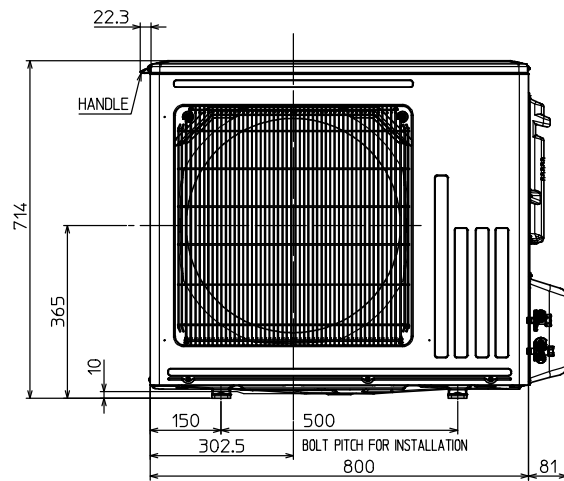
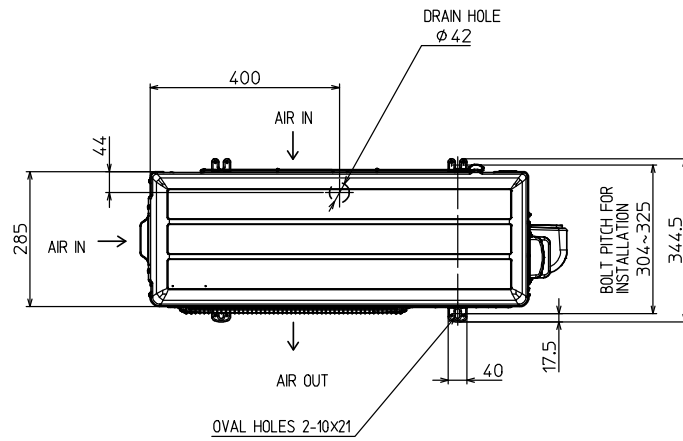
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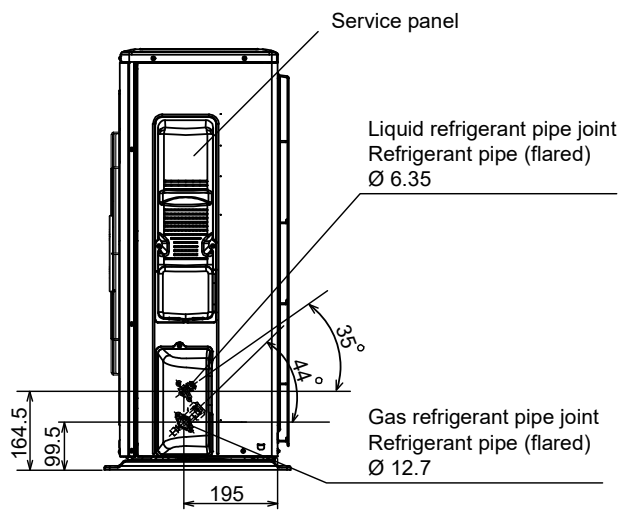
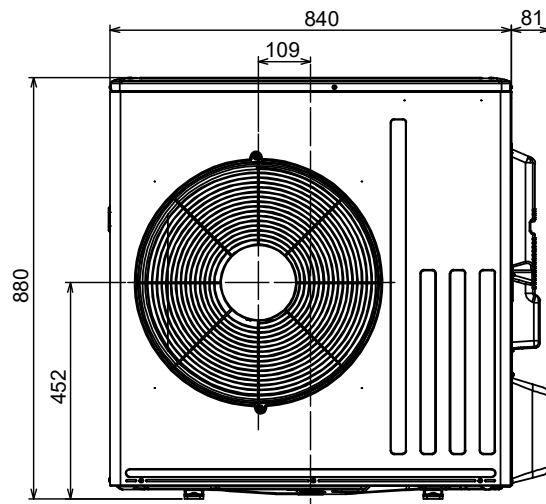
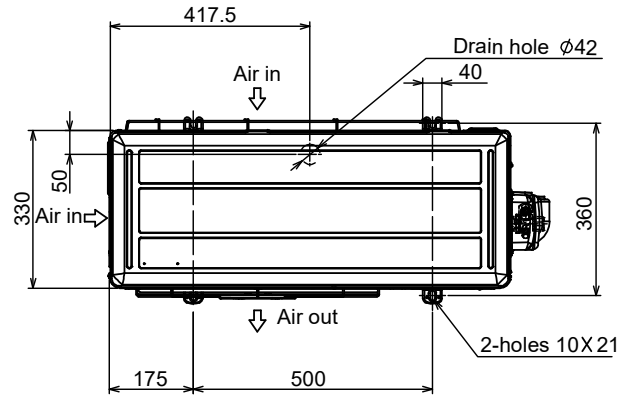
1.21 MUZ-AP50/60VG
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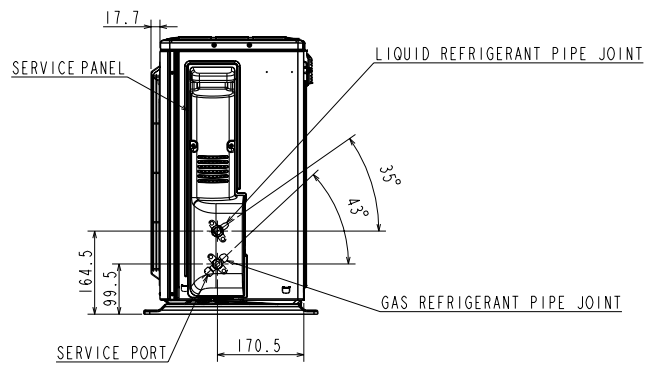
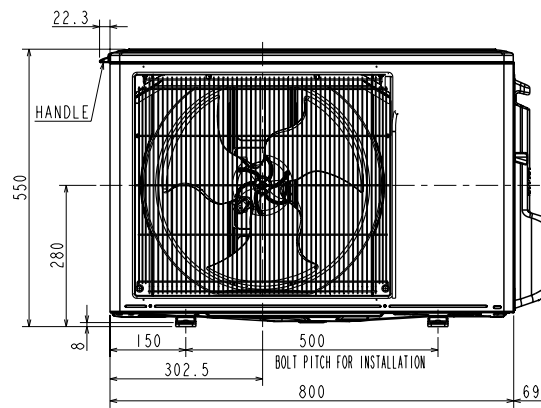
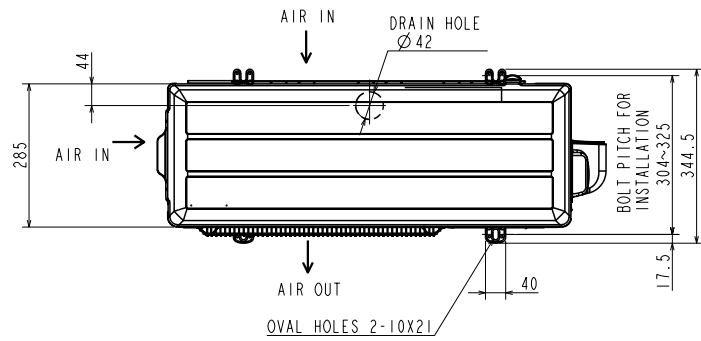
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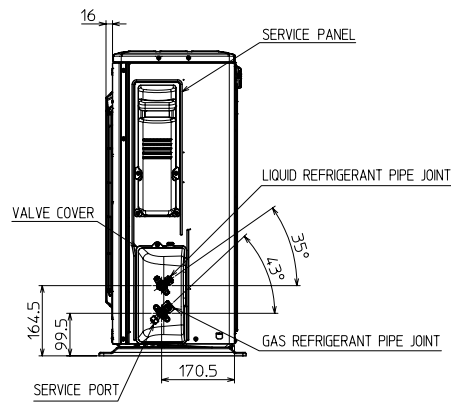
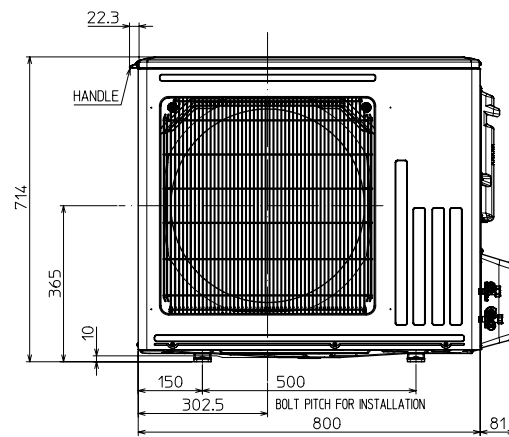
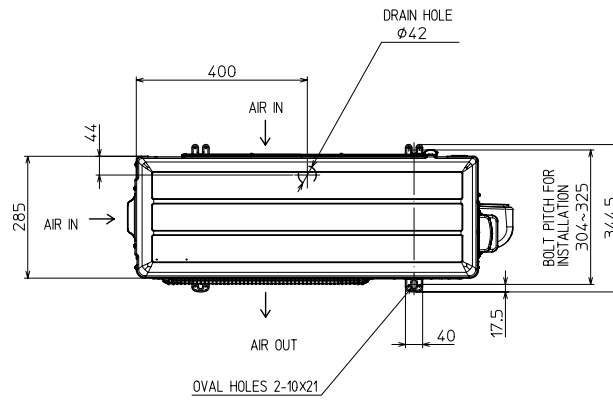
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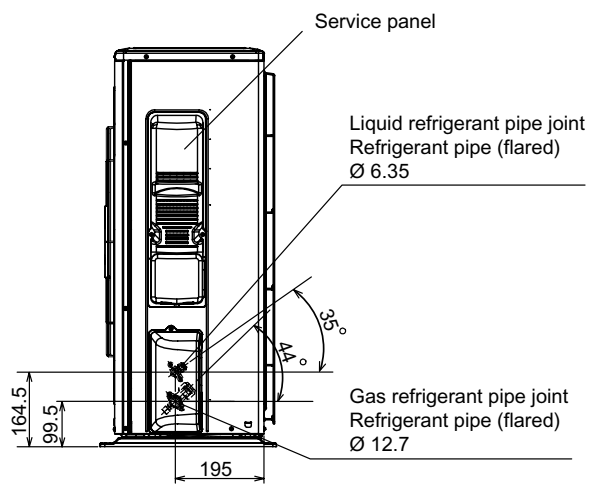
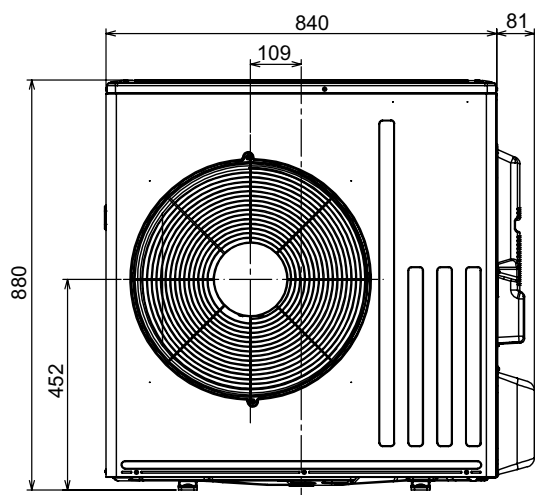
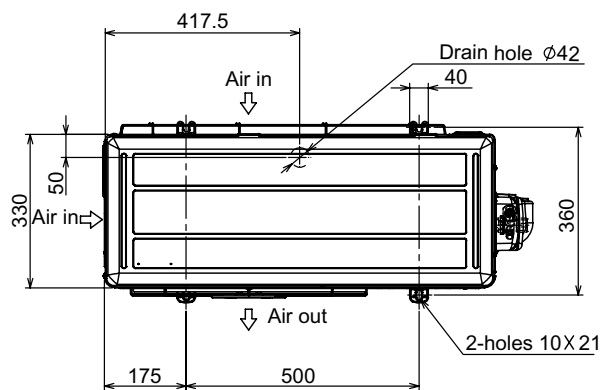
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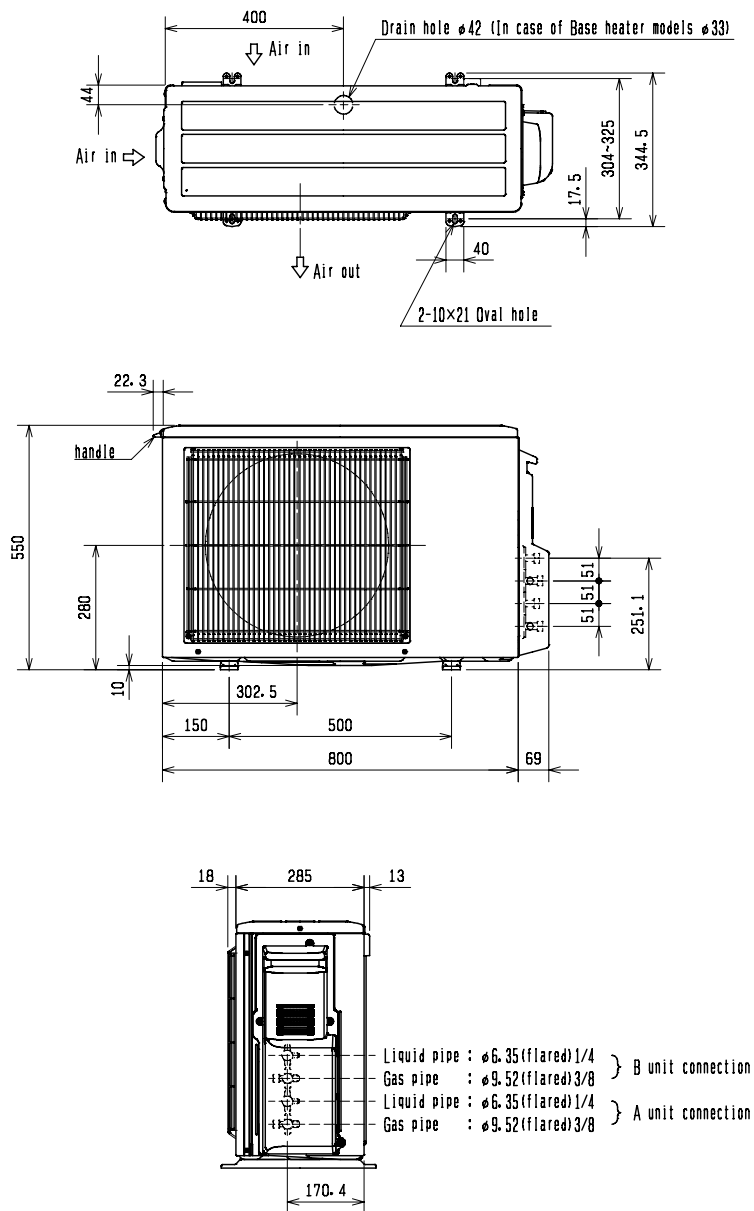
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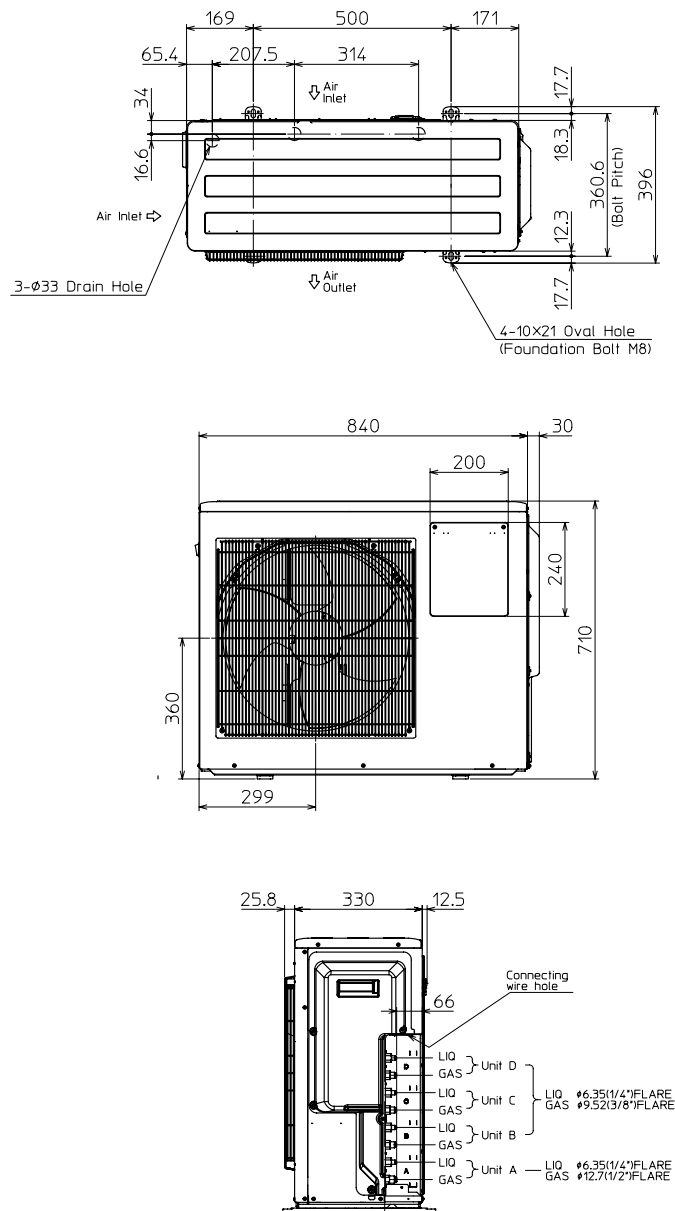
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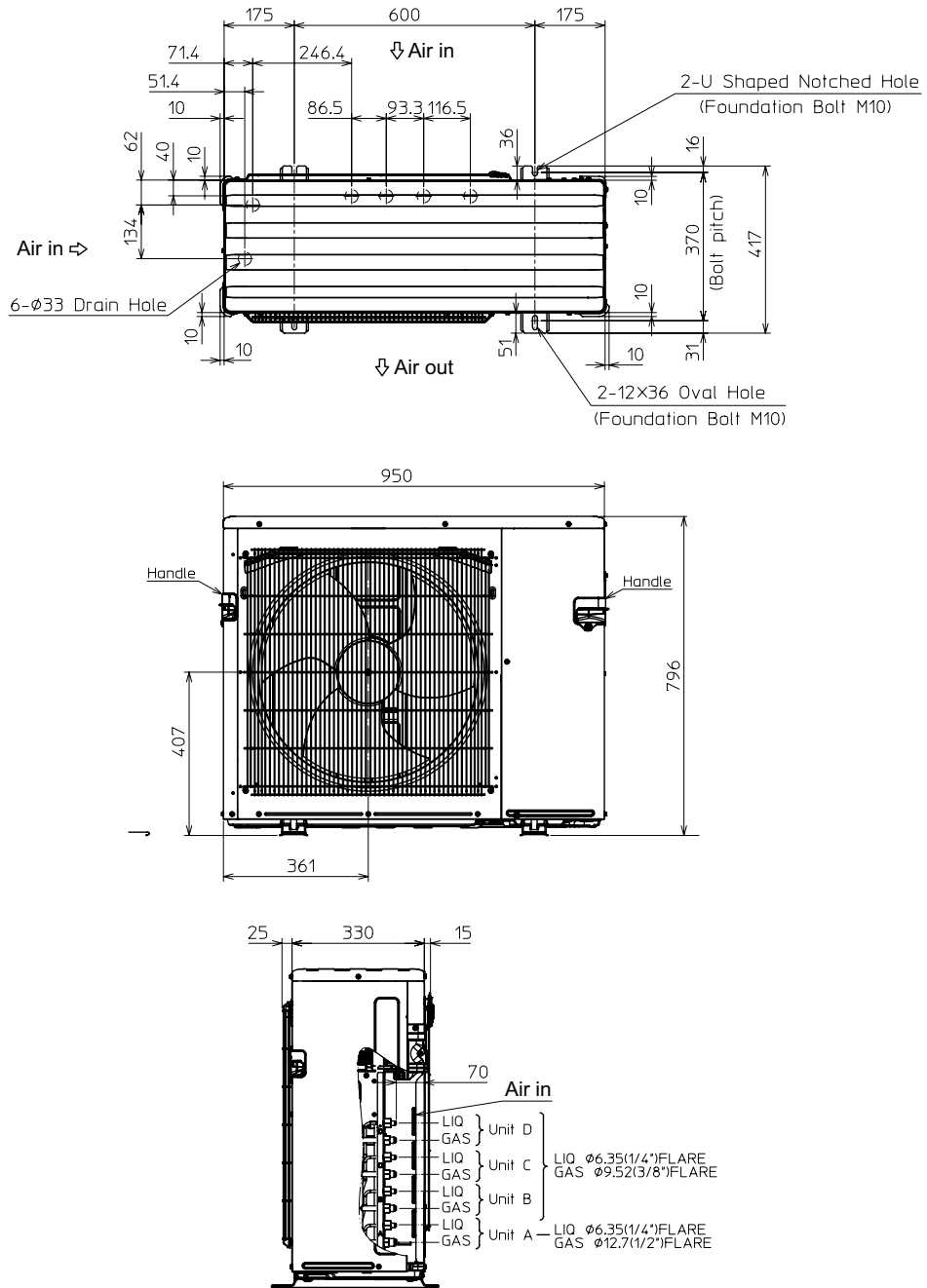
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1.29 MXZ-4F83VF

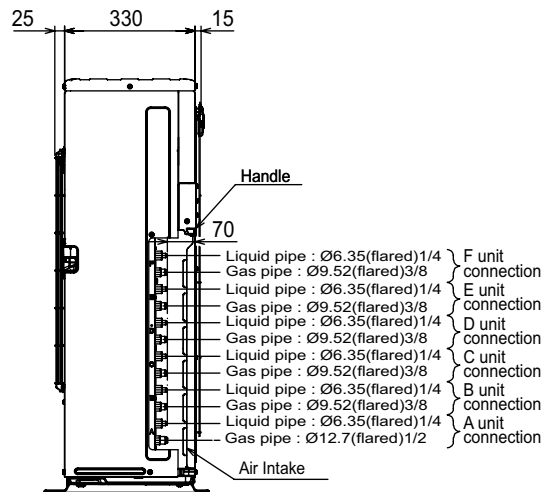
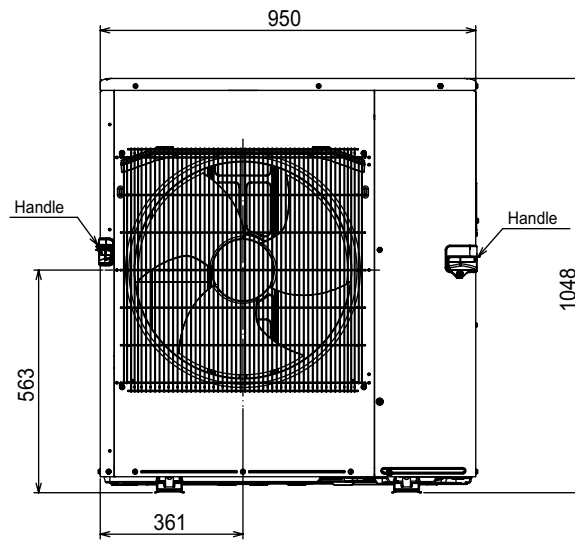
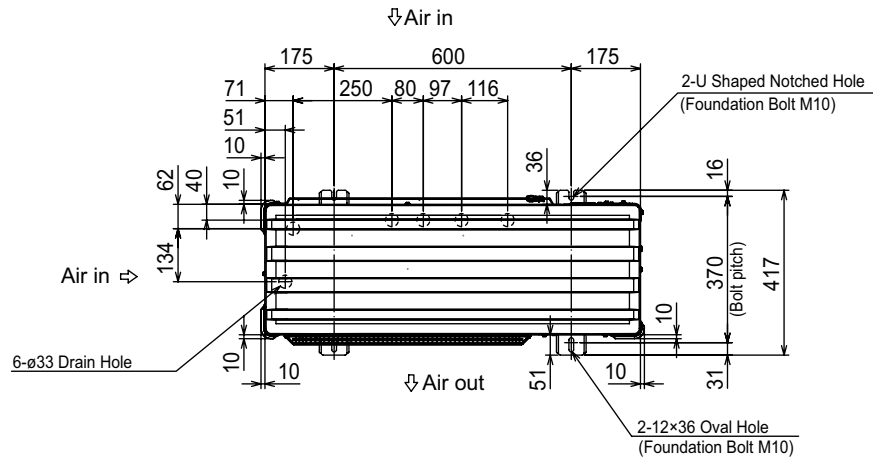
MXZ multi-split inverter outdoor units

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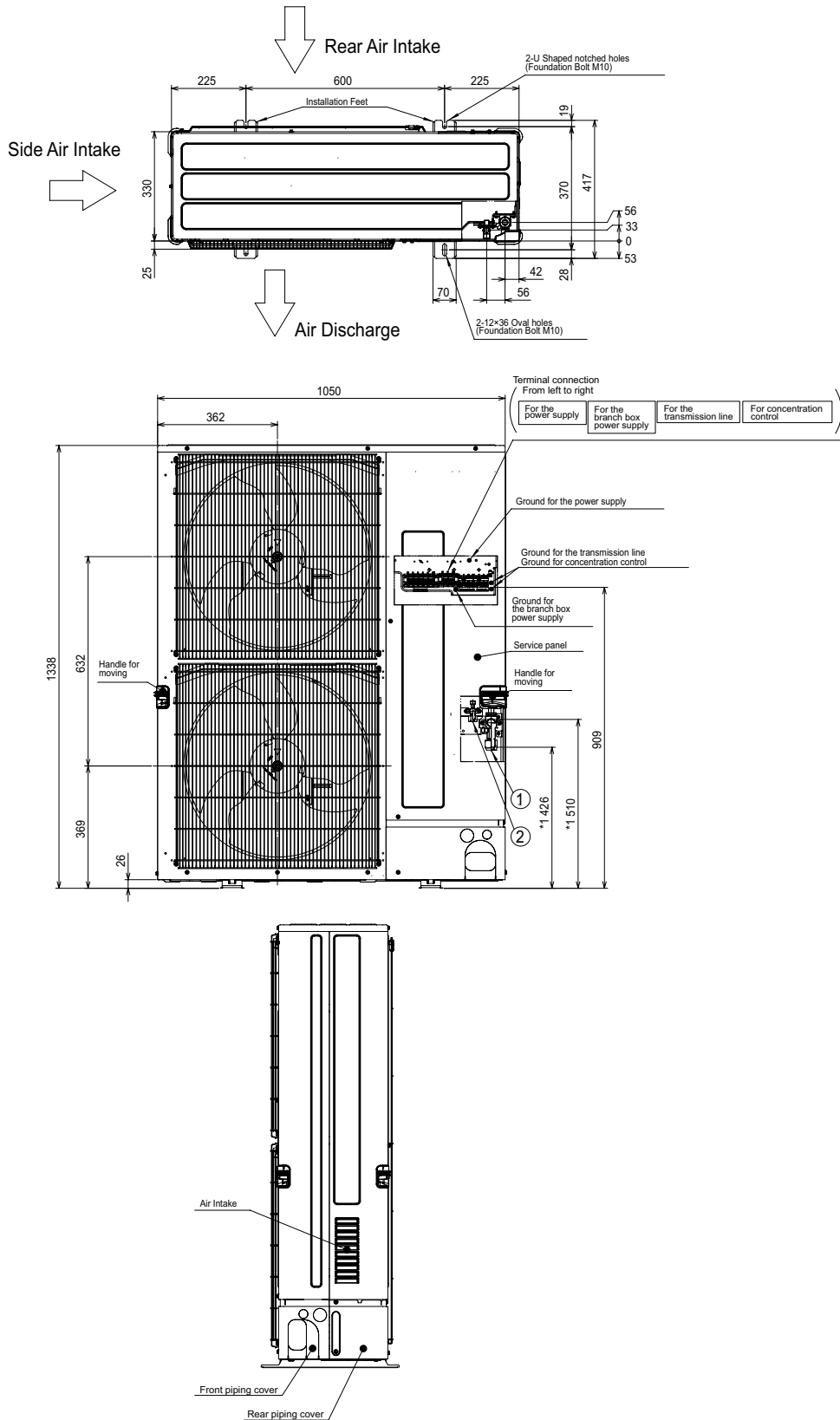
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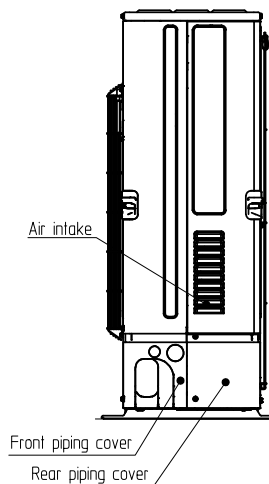
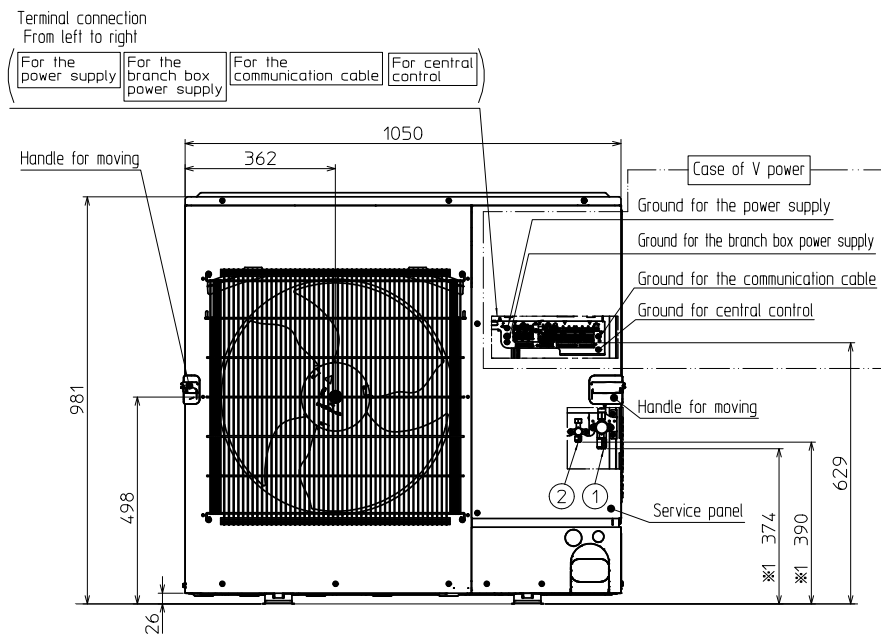
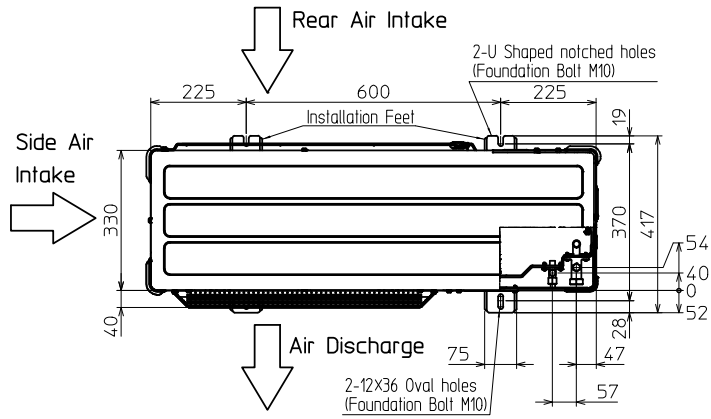
1.32 PUMY-P112-140VKM/YKM
PUMY multi-split inverter outdoor units

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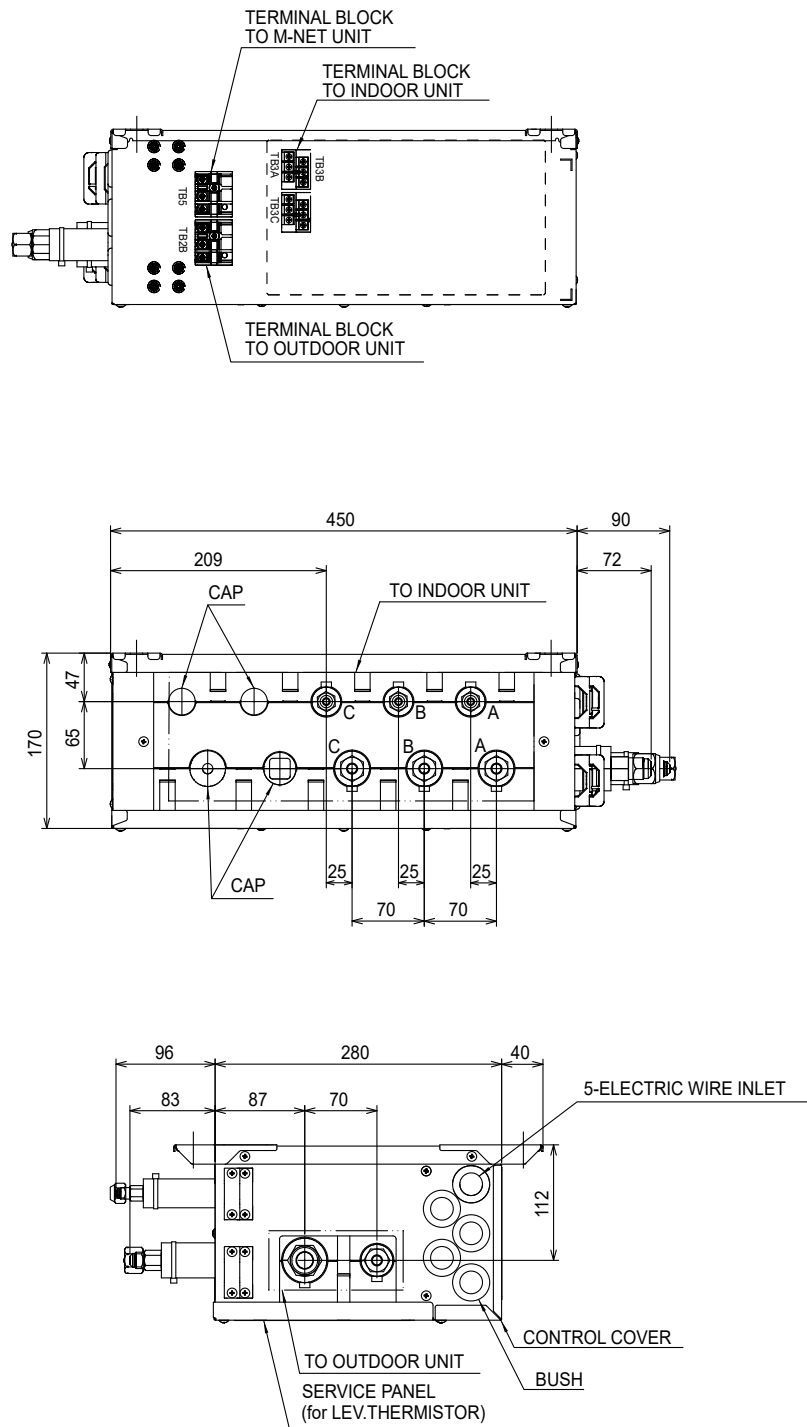
1.33 PUMY-SP112-140VKM/YKM
PUMY multi-split inverter outdoor units

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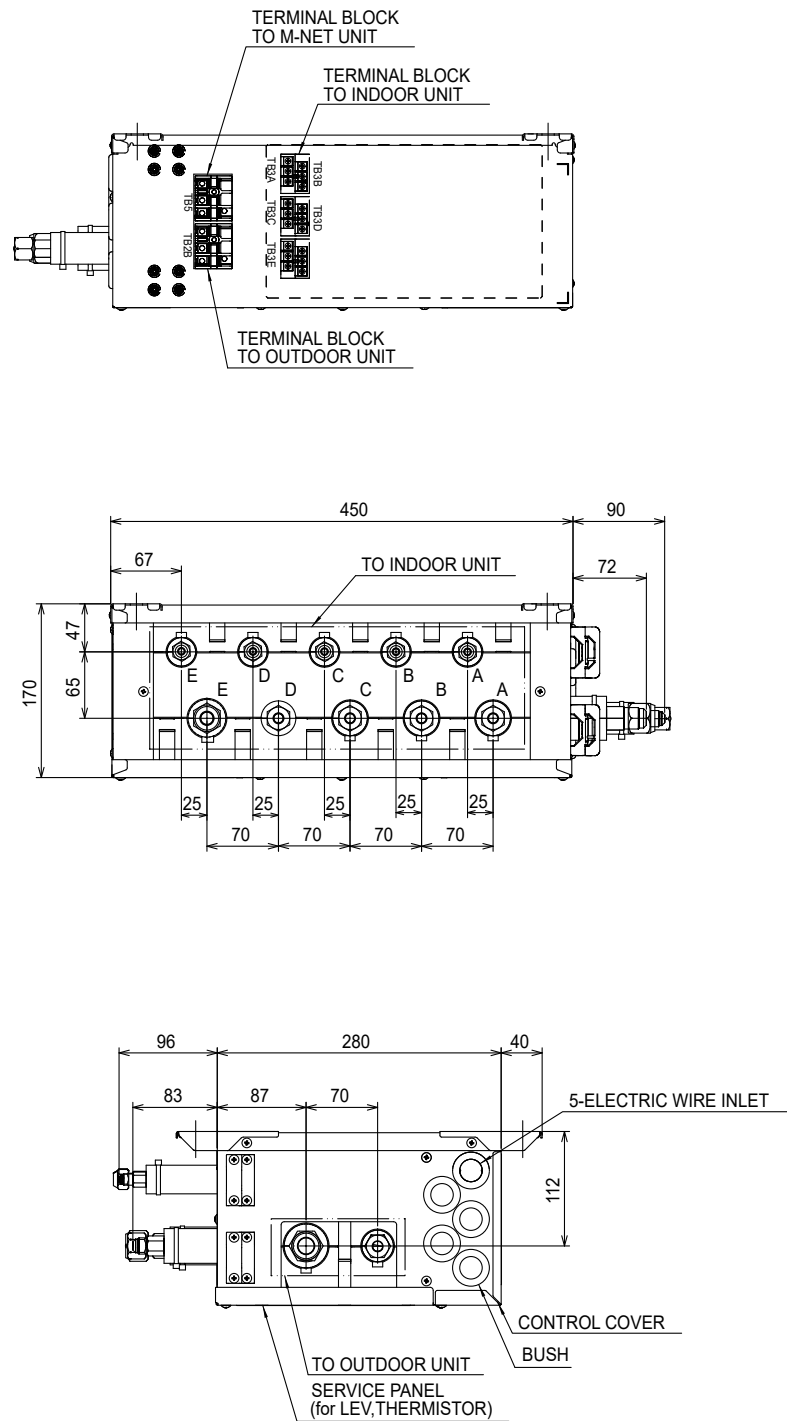
1.34 PAC-MK34BC
Multi-split branch boxes

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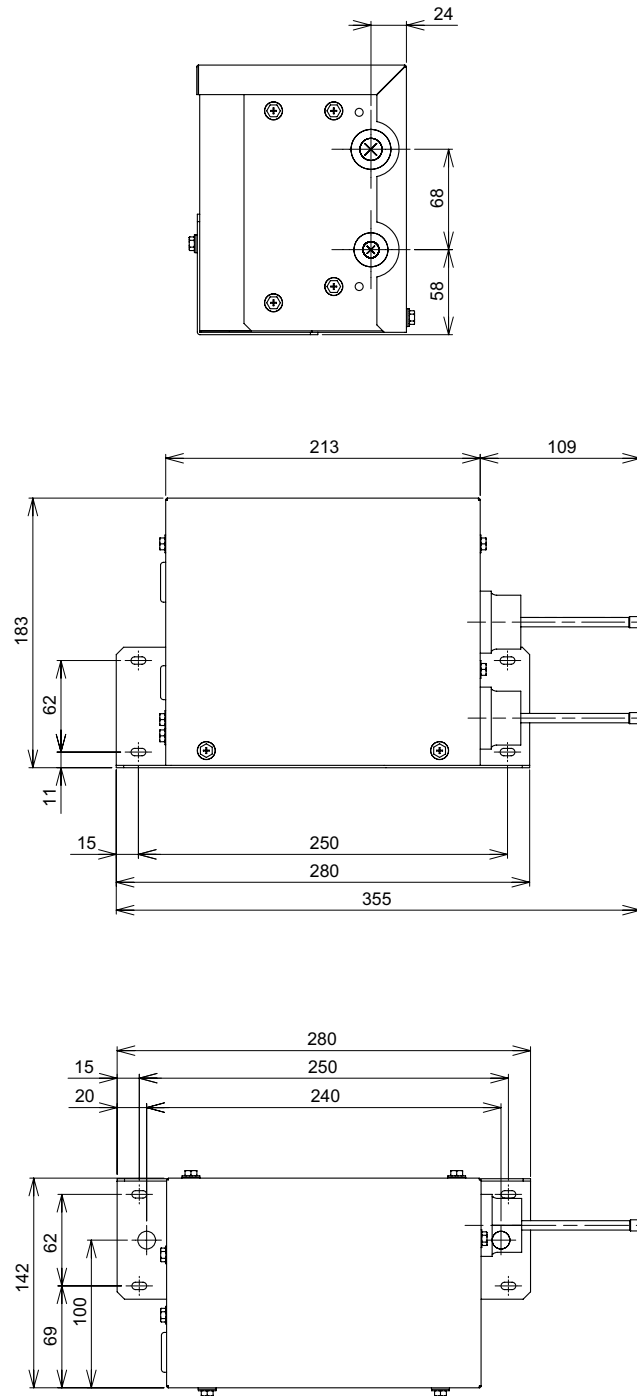
1.35 PAC-MK54BC
Multi-split branch boxes

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1.36 PAC-LV11M-J
Multi-split branch boxes

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2. Mr. Slim

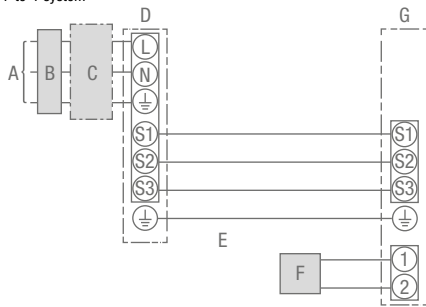
2.1 Electrical connection diagram for Mr. Slim inverter systems

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Electrical connection diagram for Mr. Slim inverter systems

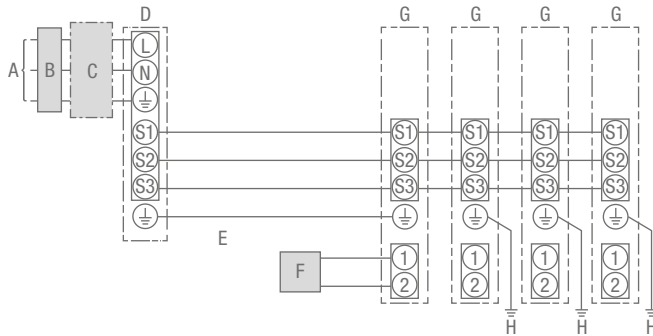
The voltage supply of the outdoor unit depends on the unit type

1-to-1 system



- A Voltage supply of outdoor unit
- B Fault-current circuit breaker
- C Fuse
- D Outdoor unit
- E Connection pipe between indoor and outdoor unit
- F Remote controller
- G Indoor unit (sizes 200 and 250 require separate voltage supply)

Multi-split system Duo/Trio/Quattro



- A Mains connection of outdoor system
- B Earth fault interrupter
- C Interrupter or disconnector
- D Outdoor system
- E Connection cable, indoor unit – outdoor system
- F Remote controller
- G Indoor unit
- H Earth line of indoor unit

Specifications for control lines between indoor and outdoor unit

Number of wires and cross-section (mm ²)	Indoor unit – outdoor unit	¹	4 x 1.5 mm ²
	Remote controller connection	²	2 x 0.3 mm ²
Rated voltage of current circuit	Indoor unit – outdoor unit	³	AC 230 V
	Indoor unit – outdoor unit	³	DC 24 V
	Remote controller connection	³	DC 12 V

1 For system sizes 35–140, max. 45 m.

If 2.5 mm² used, max. 50 m.

If 2.5 mm² used and S3 separated, max. 80 m.

For system sizes 200–250, max. 18 m.

If 2.5 mm² used, max. 30 m.

If 4 mm² used and S3 separated, max. 50 m.

If 6 mm² used and S3 separated, max. 80 m.

2 Remote controller accessory is equipped with a 10 m electrical line.

Max. possible line length 500 m.

3 Data NOT always in relation to earth line.

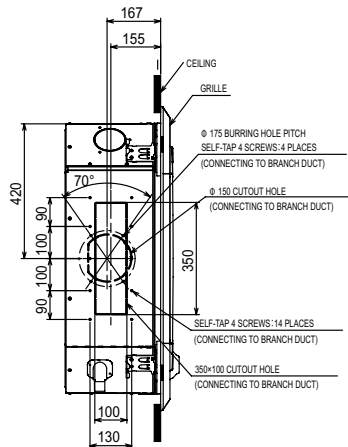
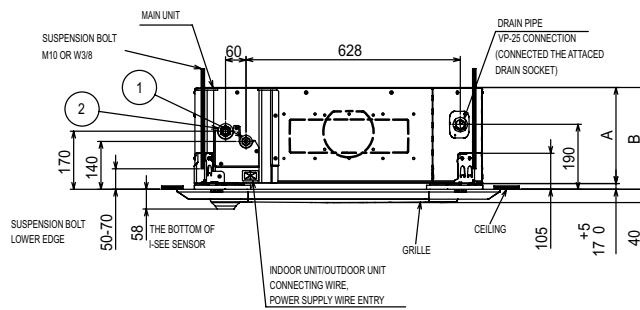
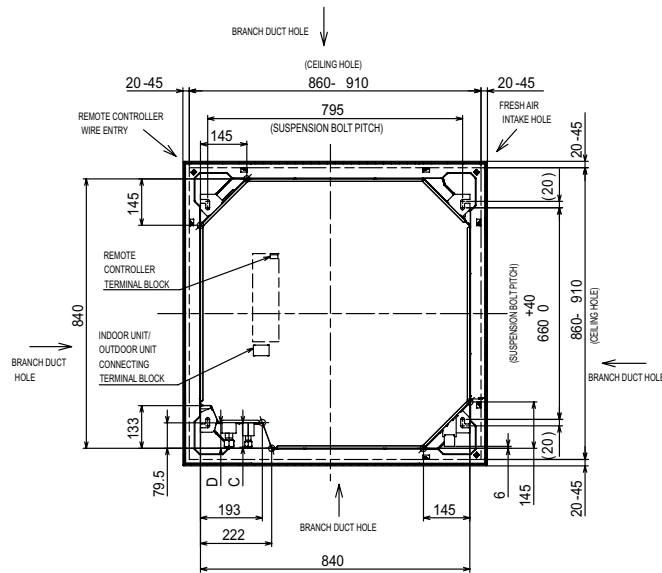
Terminal S3 has 24 V DC in relation to terminal S2. Between terminals S3 and S1, there is no electrical insulation via the transformer or any other electrical unit.

Notes:

1. The size of the electrical line must comply with the respective local and national statutory regulations.
2. At least one polychloroprene-coated flexible cable (corresponding to 60245 IEC 57) must be used for the power supply and for connecting the indoor unit and outdoor system.
3. Install an earth line that is longer than the other cables.

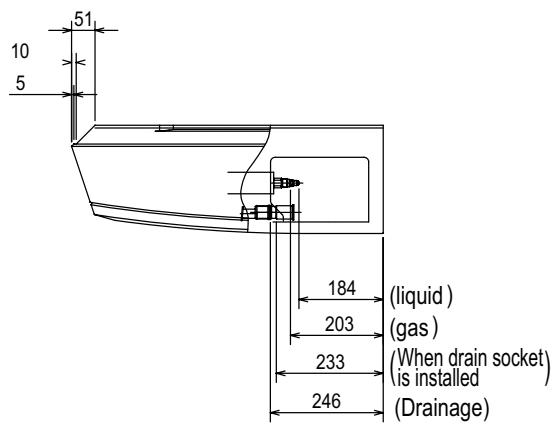
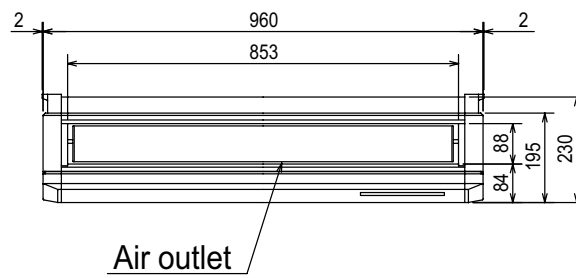
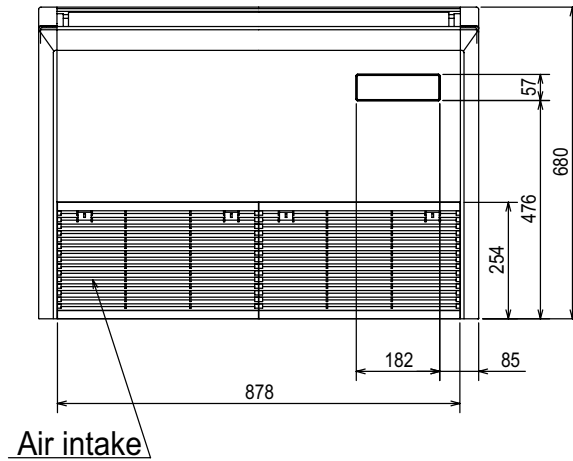
2.2 PLA-ZM/M35-140EA
 PLA-ZM ceiling cassette

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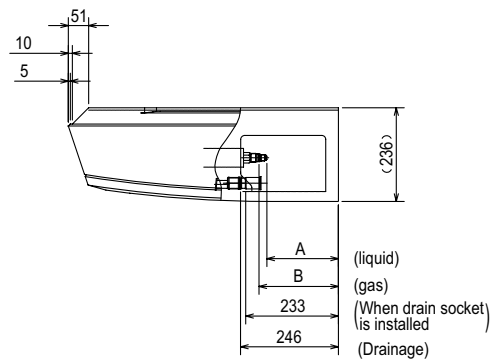
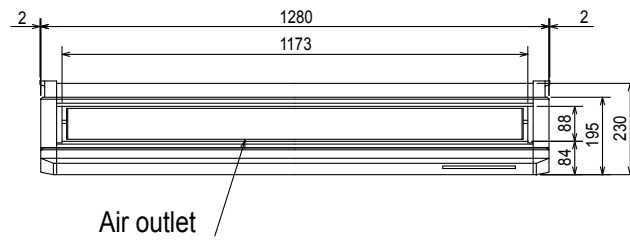
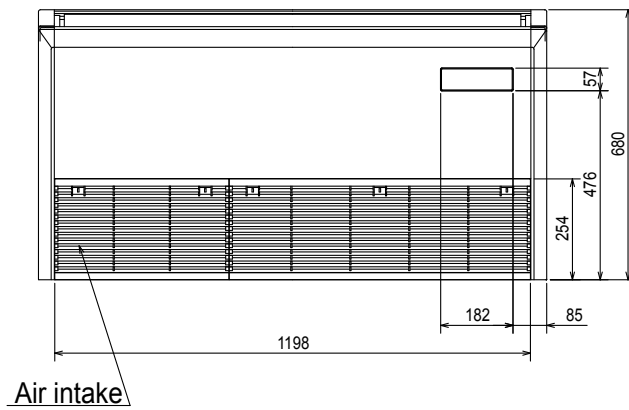
2.3 PCA-M35/50KA
PCA-M ceiling suspended units

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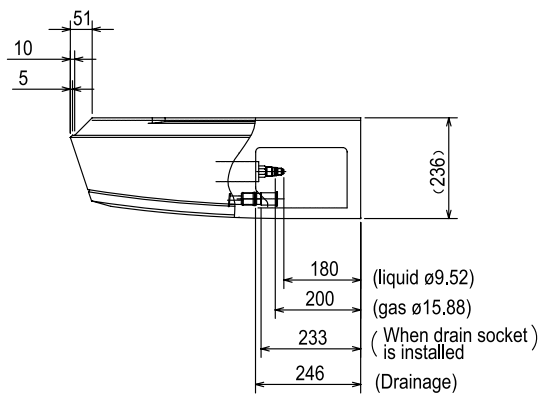
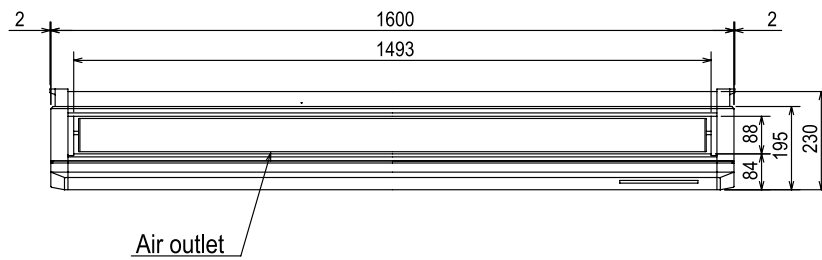
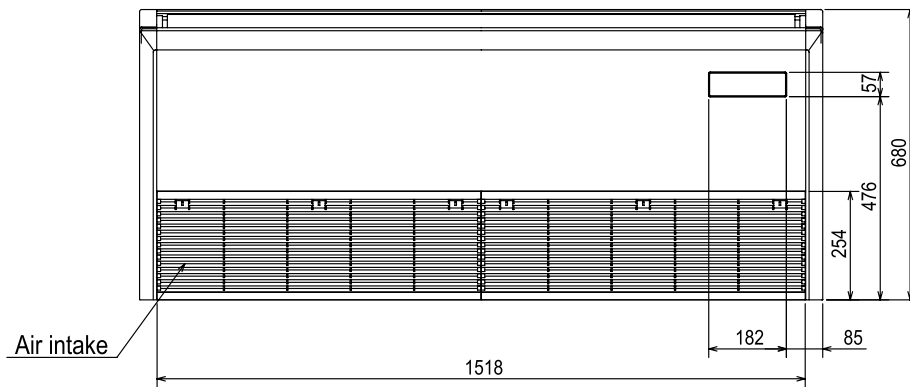
2.4 PCA-M60/71KA
PCA-M ceiling suspended units

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2.5 PCA-M100-140KA
PCA-M ceiling suspended units

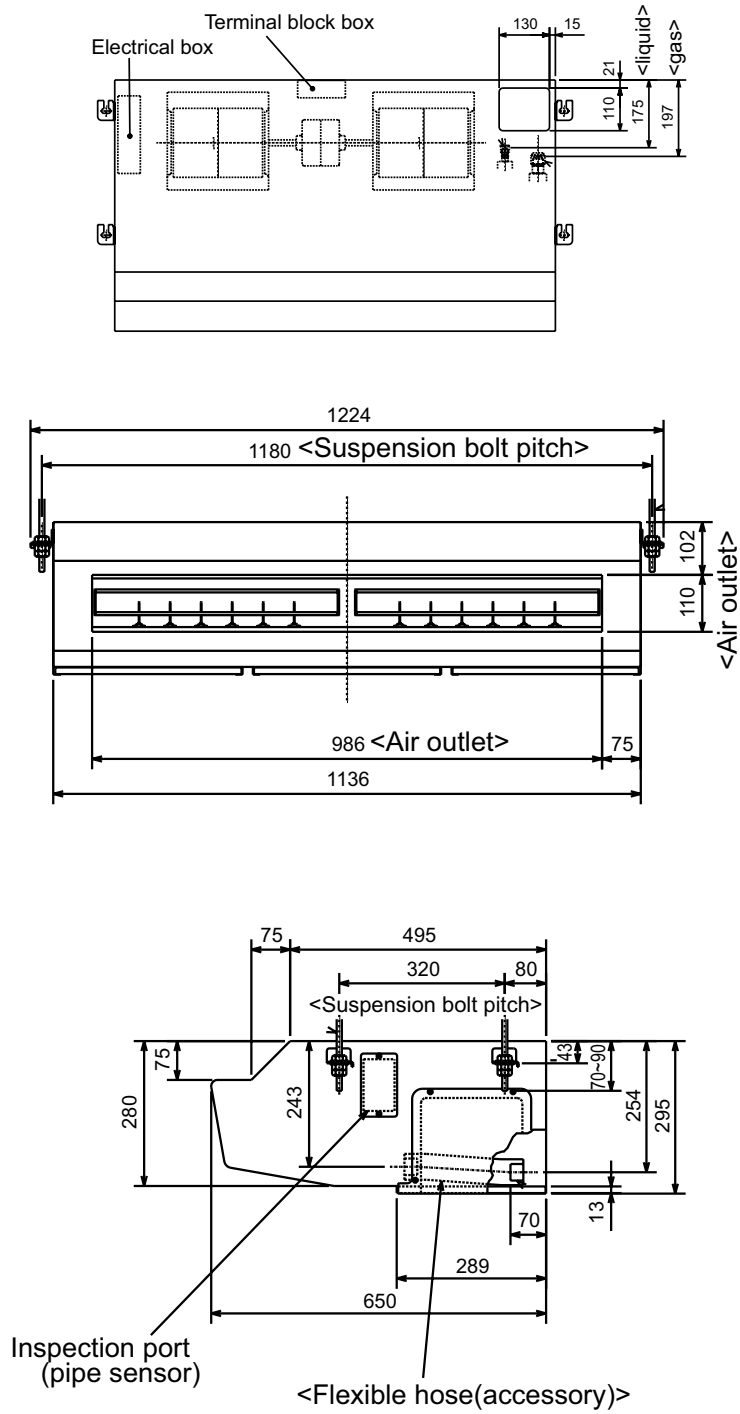
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2.6 PCA-M71HA

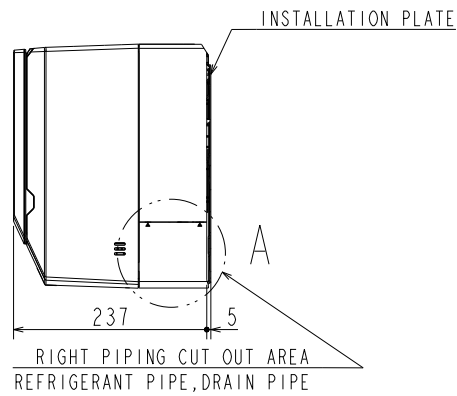
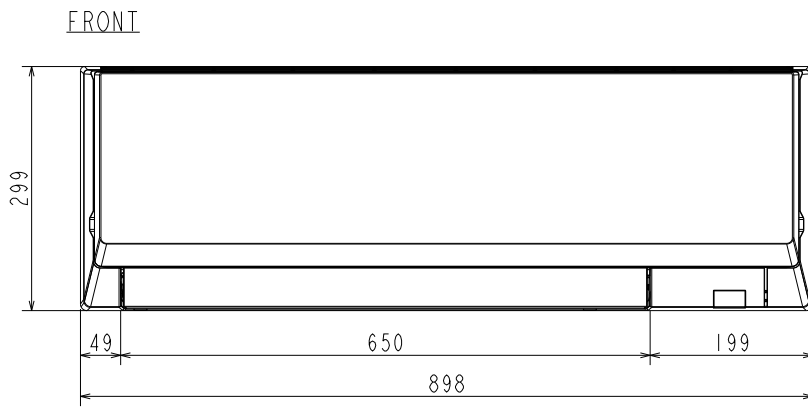
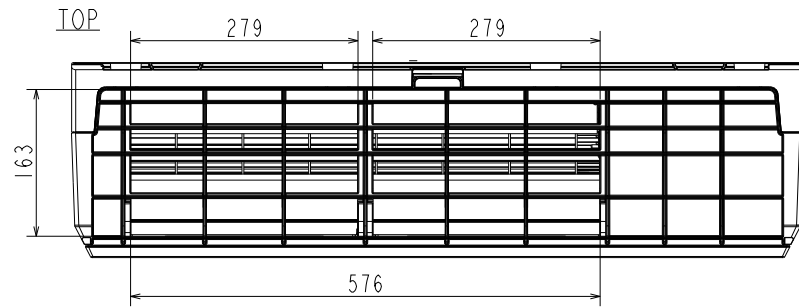
PCA-M stainless steel ceiling suspended units

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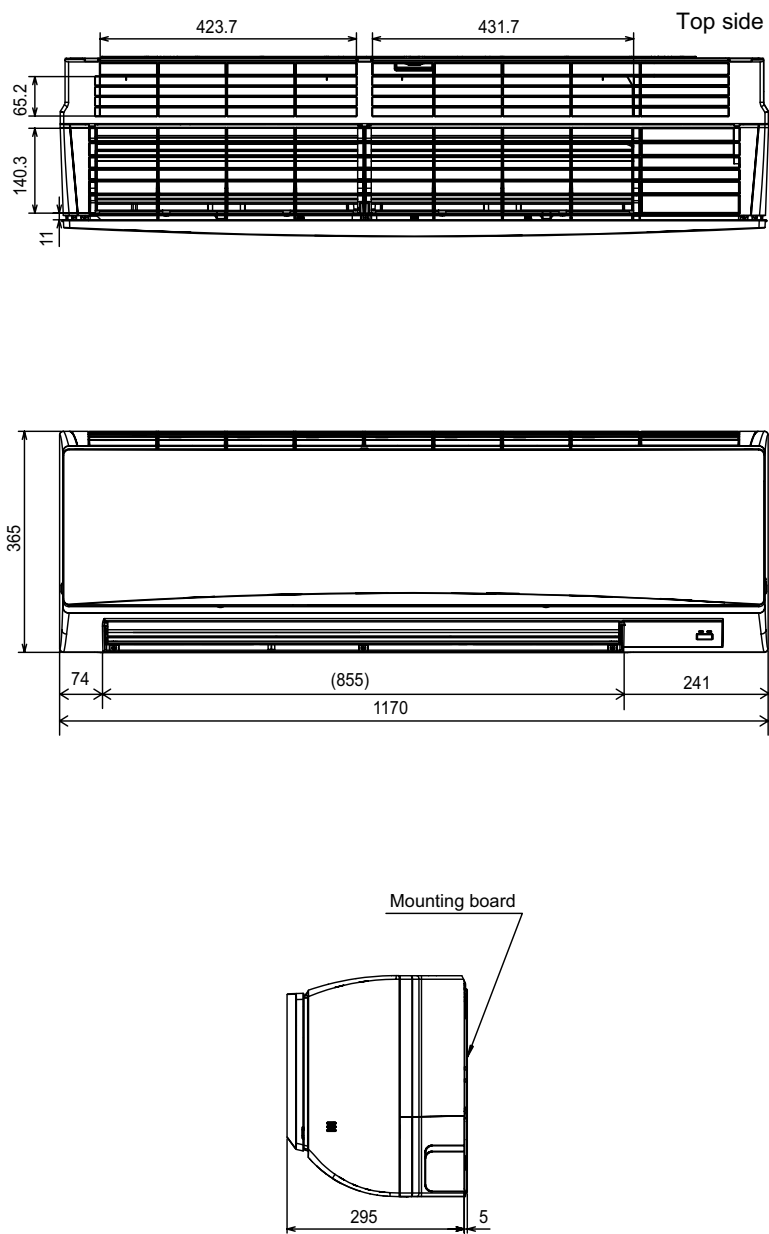
2.7 PKA-M35/50LAL
 PKA-M wall mounted units

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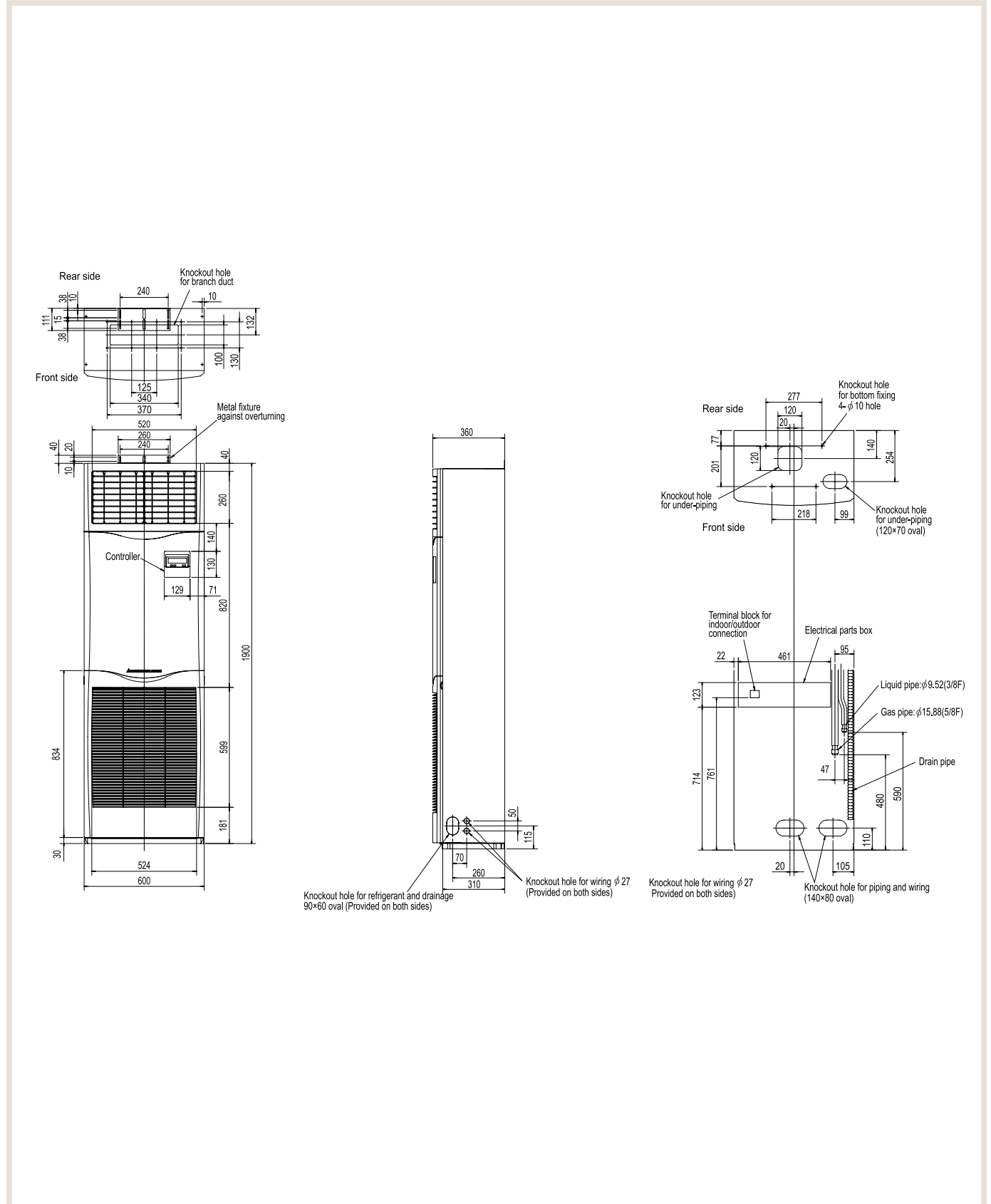
2.8 PKA-M60-100KAL
 PKA-M wall mounted units

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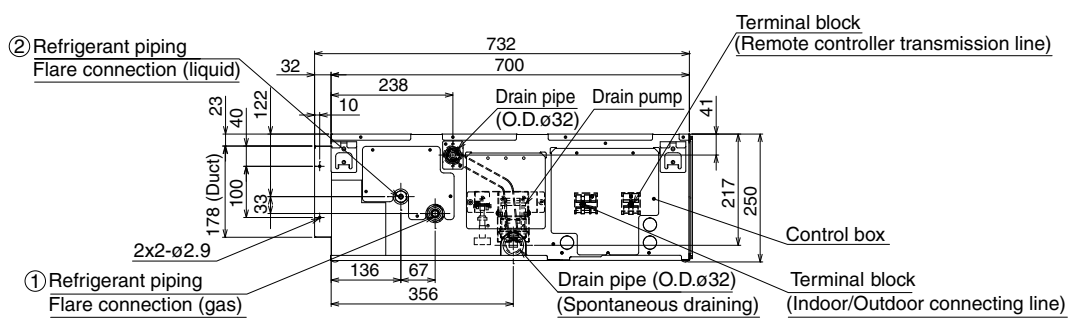
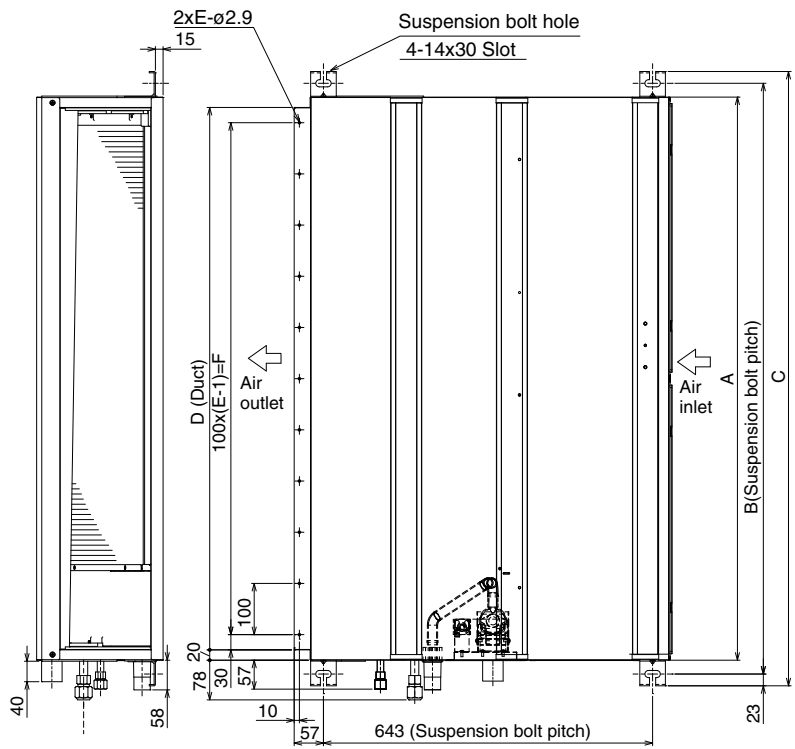
2.9 PSA-RP71-140KA
PSA-RP floor mounted units

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2.10 PEAD-M35-140JA
PEAD-M ceiling concealed ducted units

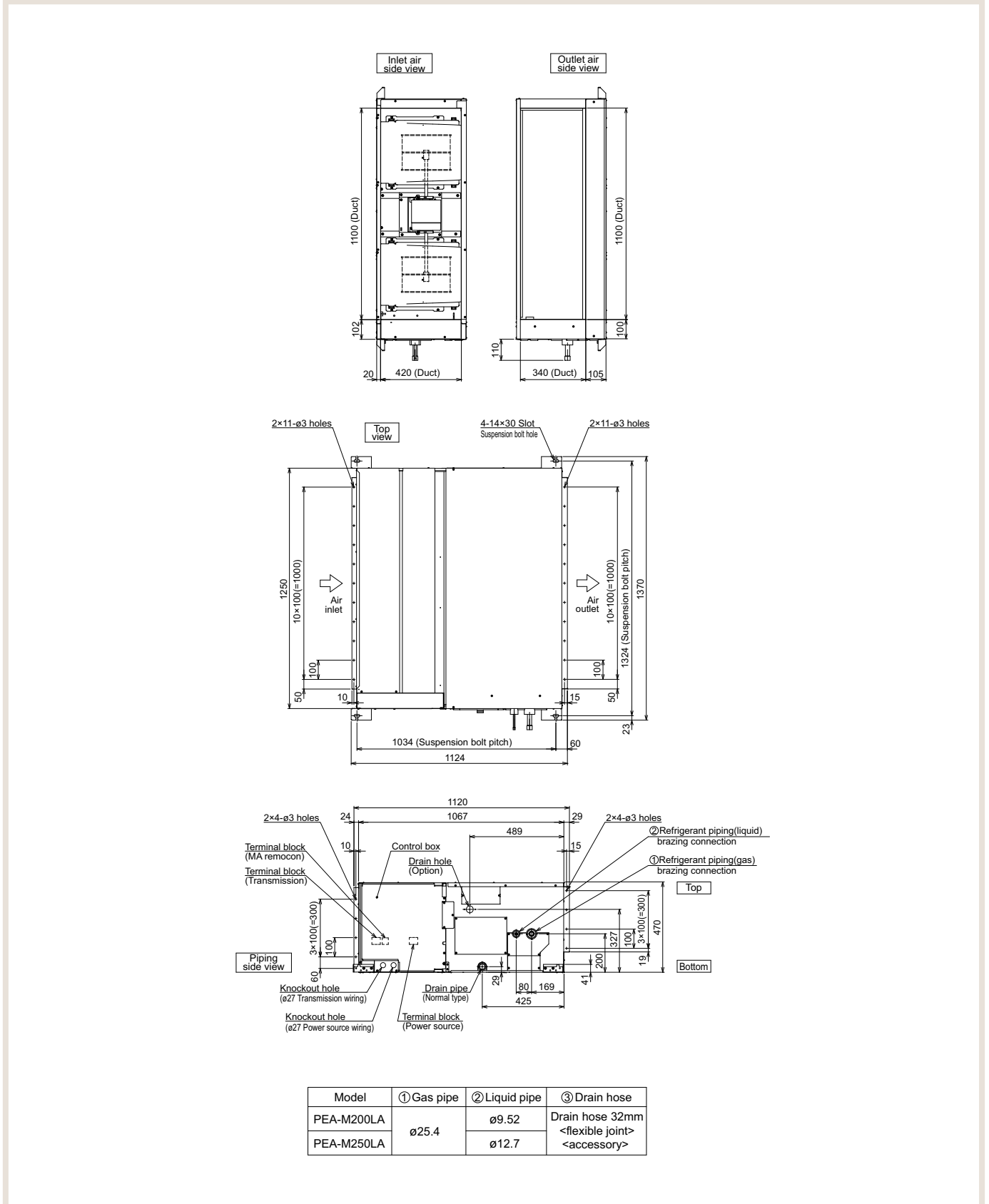
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Model	A	B	C	D	E	F	G	H	J	K	L	M	N	*Setting at shipment	
														① Gas pipe	② Liquid pipe
PEAD-M35, 50JA	900	954	1000	860	9	800	858	1000	54	260	4	780	10	ϕ 12.7	ϕ 6.35
PEAD-M60JA	1100	1154	1200	1060	11	1000	1058	1200	49	330	4	990	10	ϕ 15.88	Outdoor unit (SUZ): ϕ 6.35
PEAD-M71JA															Outdoor unit (other): ϕ 9.52*
PEAD-M100, 125JA	1400	1454	1500	1360	14	1300	1358	1500	54	320	5	1280	12	ϕ 15.88	ϕ 9.52
PEAD-M140JA	1600	1654	1700	1560	16	1500	1558	1700	54	370	5	1480	12		

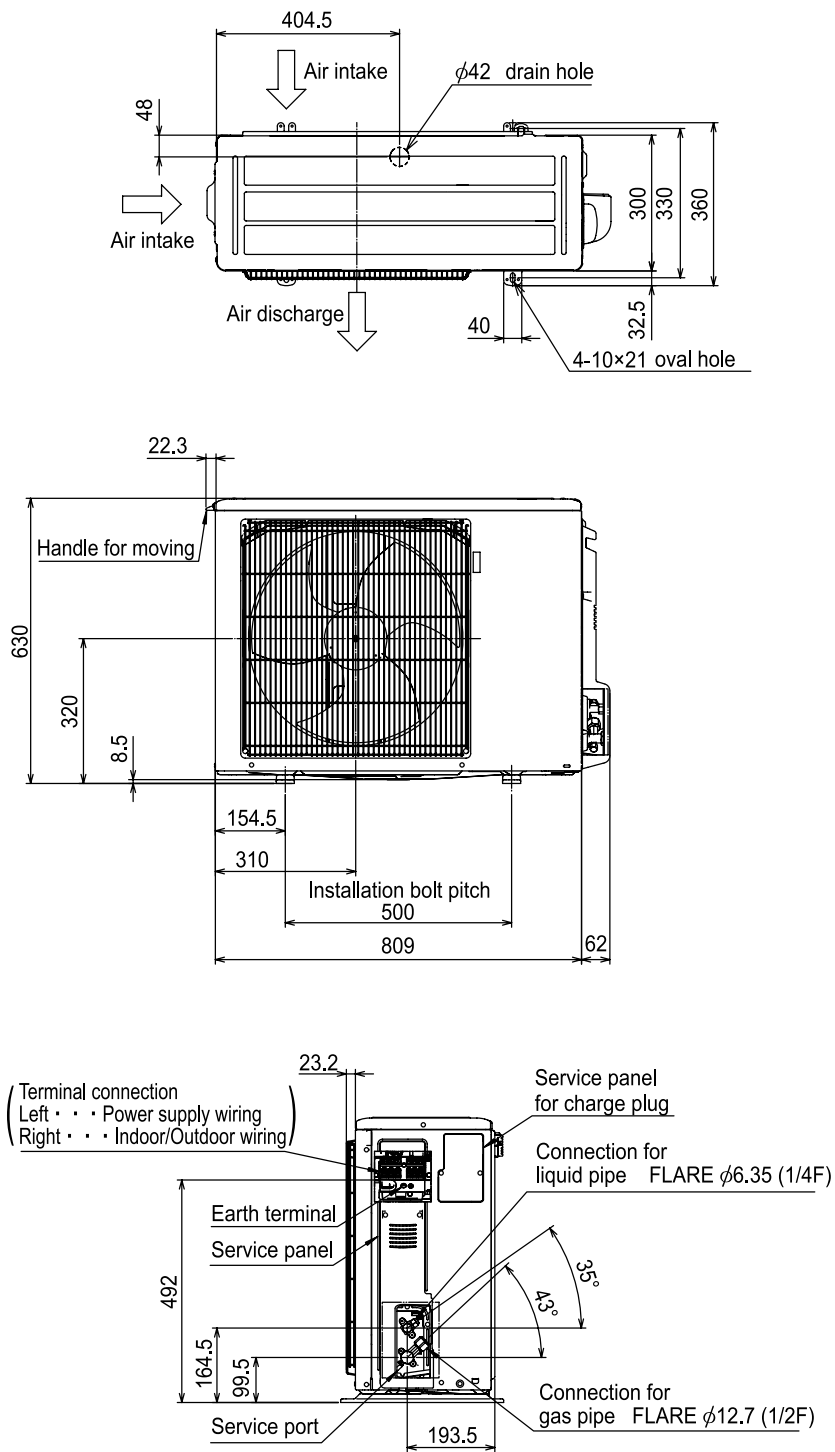
2.11 PEA-M200 / 250LA
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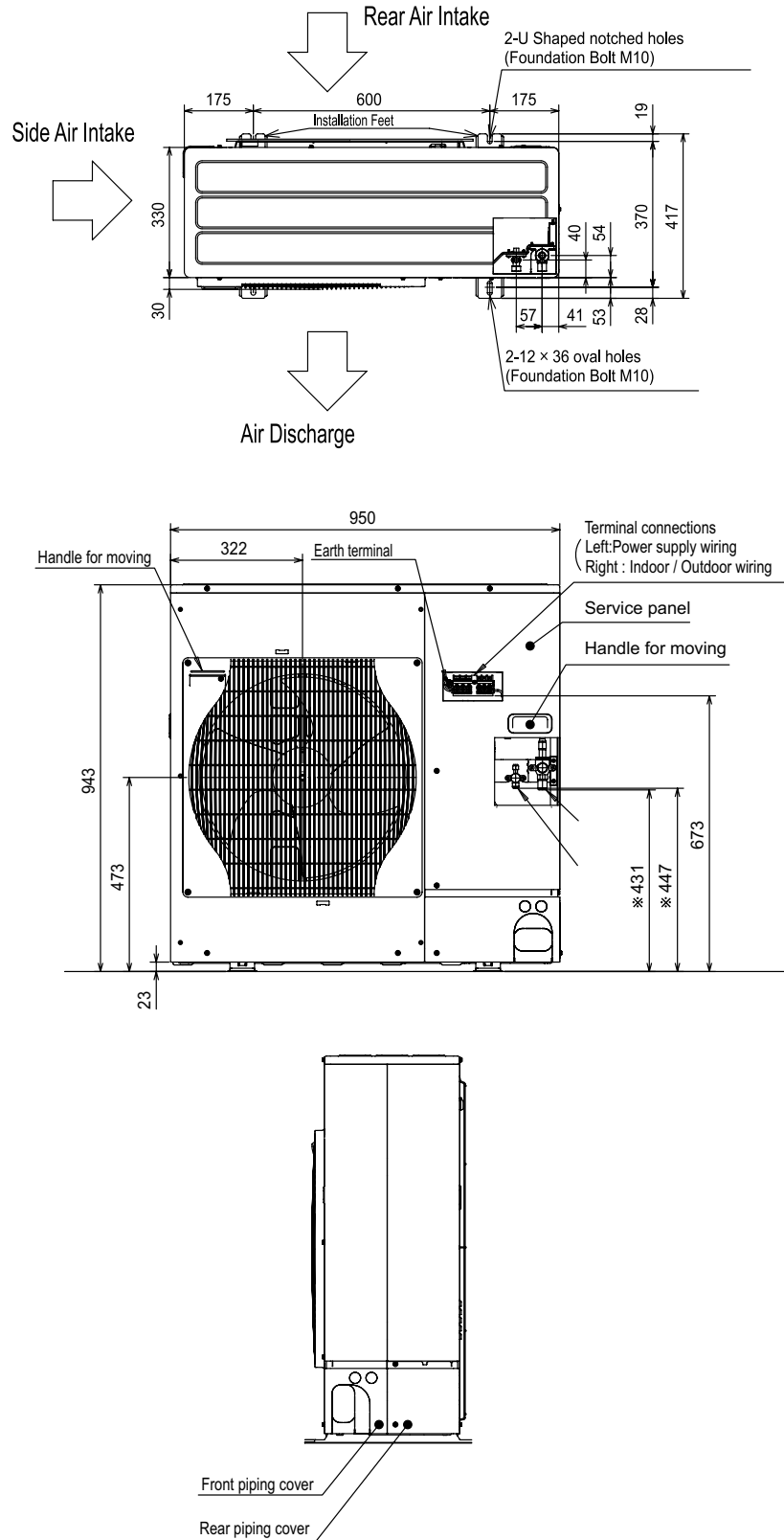
2.12 PUZ-ZM35/50VKA
Power Inverter outdoor units

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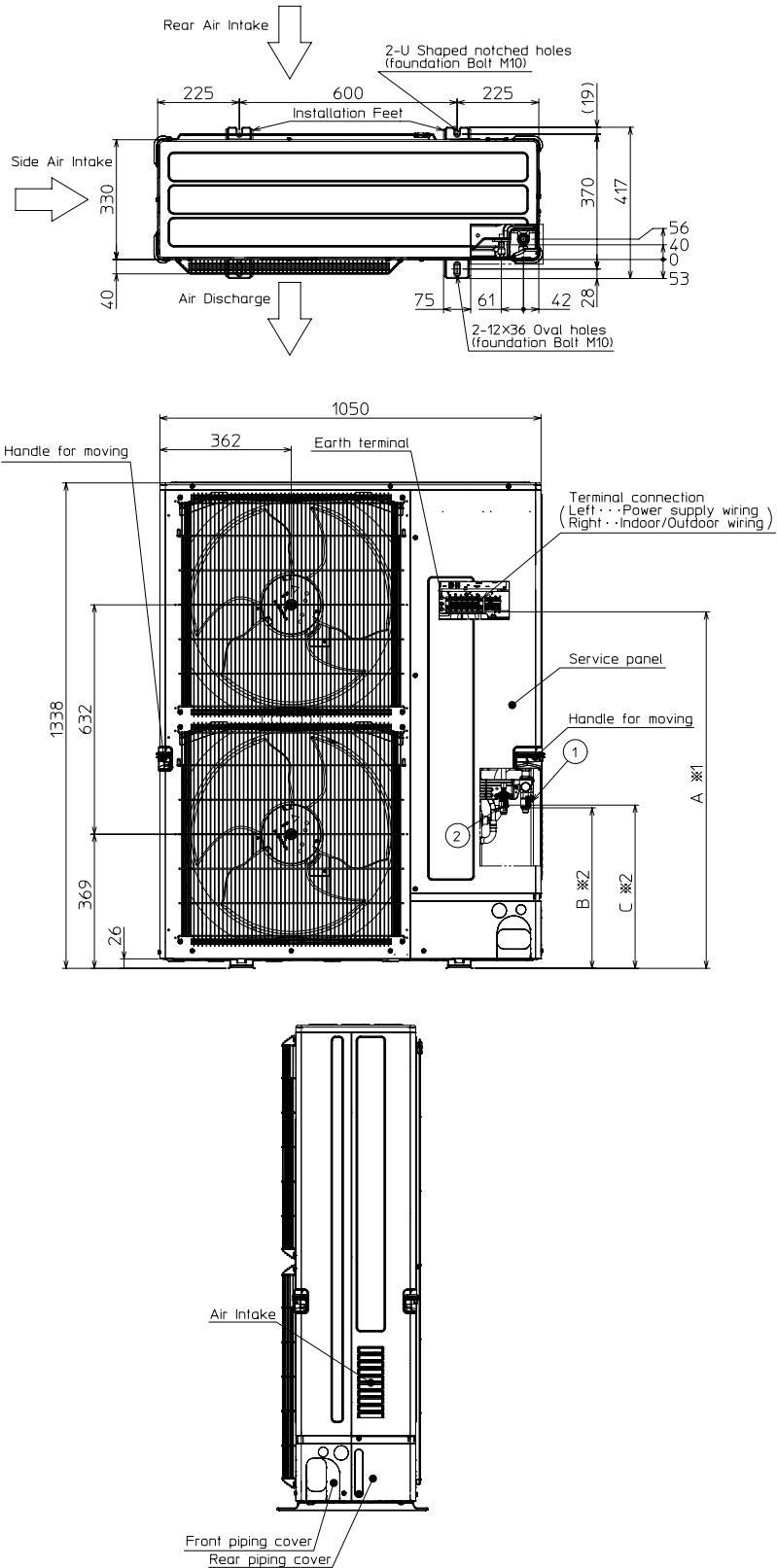
2.13 PUZ-ZM/PUHZ-ZRP60/71VHA
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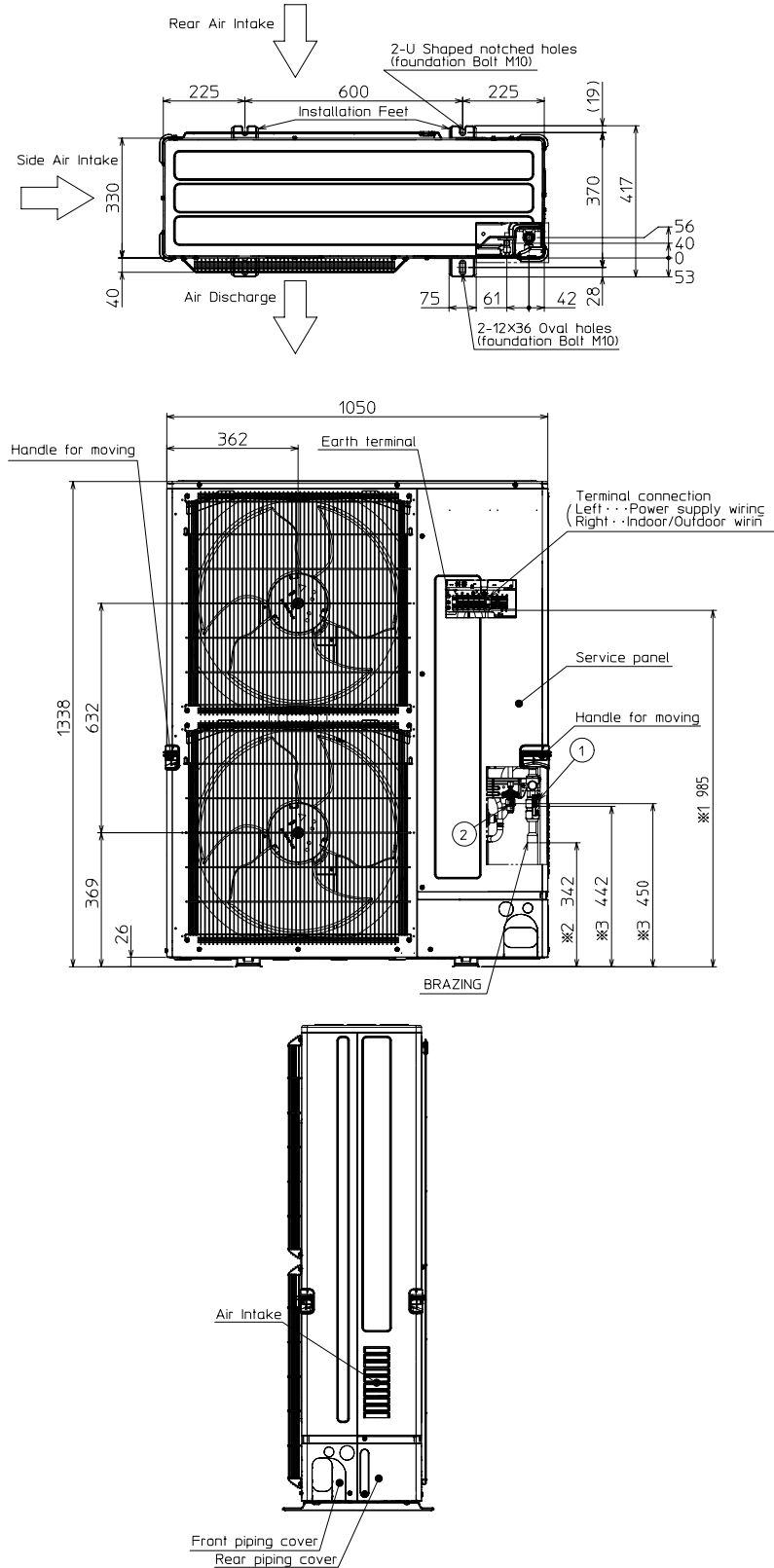
2.14 PUZ-ZM/PUHZ-ZRP100-140YKA
Power Inverter outdoor units

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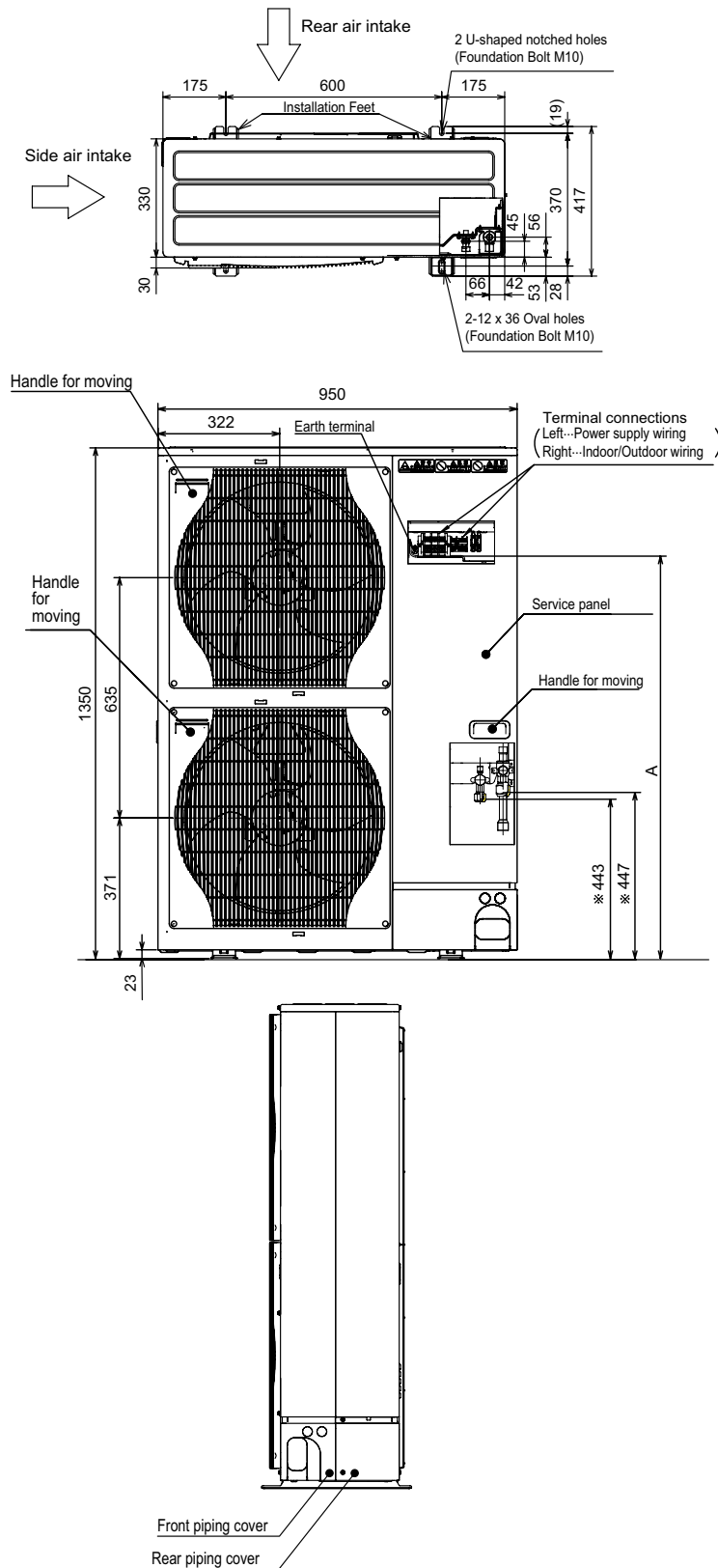
2.15 PUHZ-ZRP200/250YKA/PUZ-ZM200/250YKA
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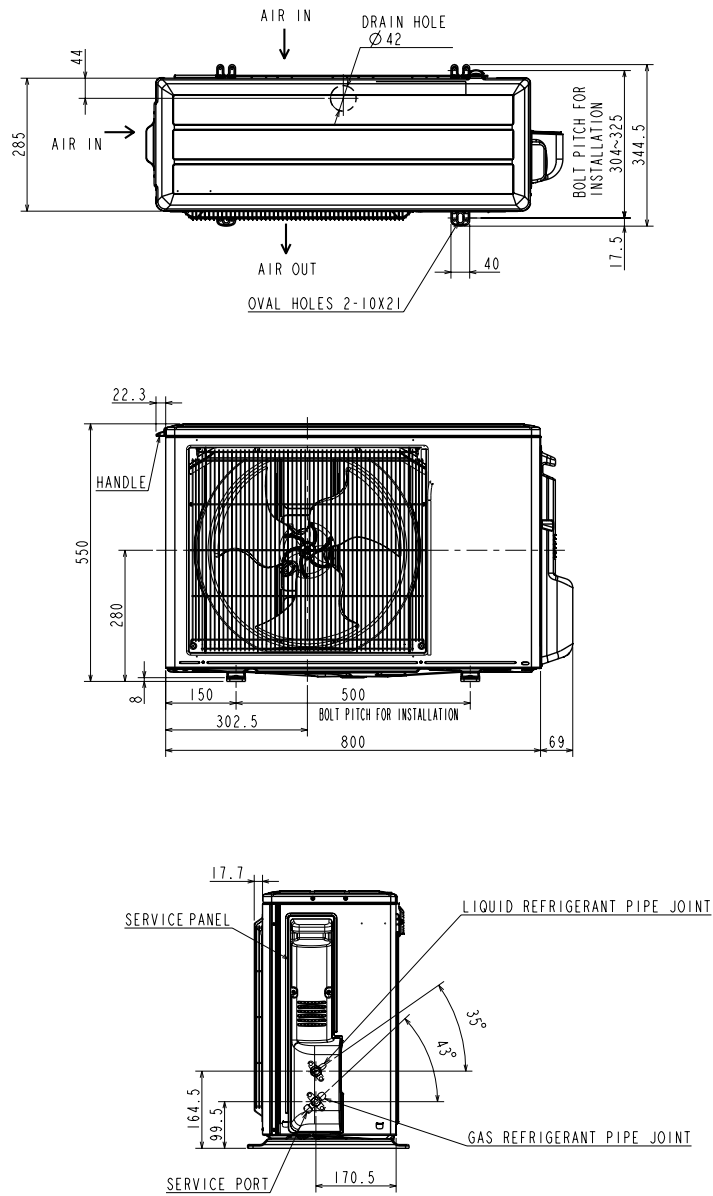
2.16 PUHZ-SHW112/140VHA-A/YHA-A
New-generation Zubadan Inverter outdoor units

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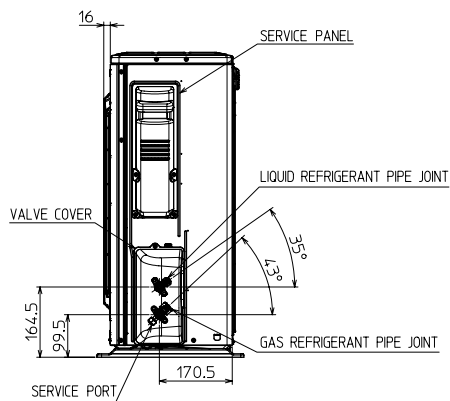
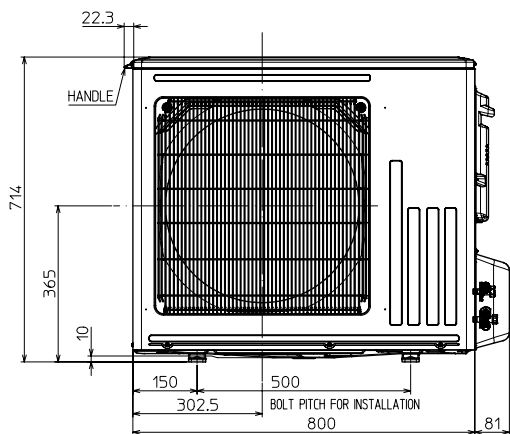
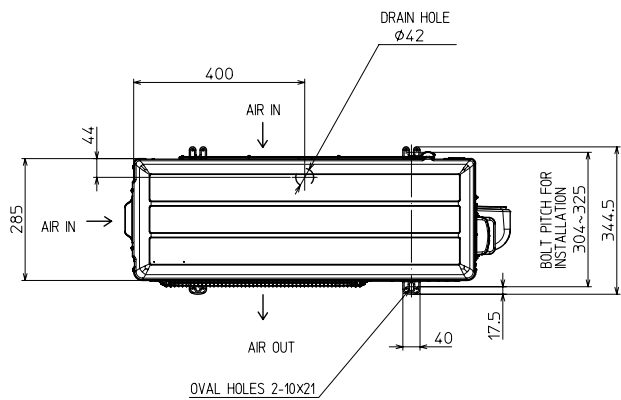
2.17 SUZ-M35VA
Standard Inverter outdoor units

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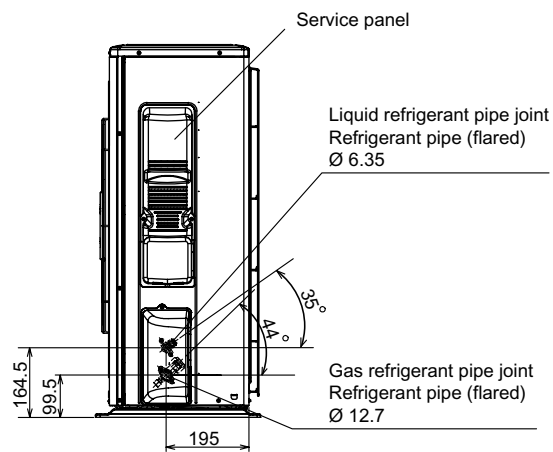
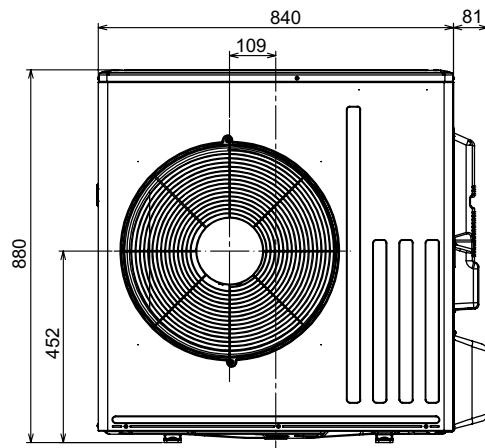
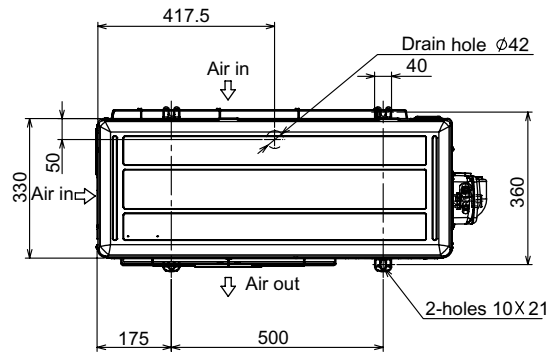
2.18 SUZ-M50VA
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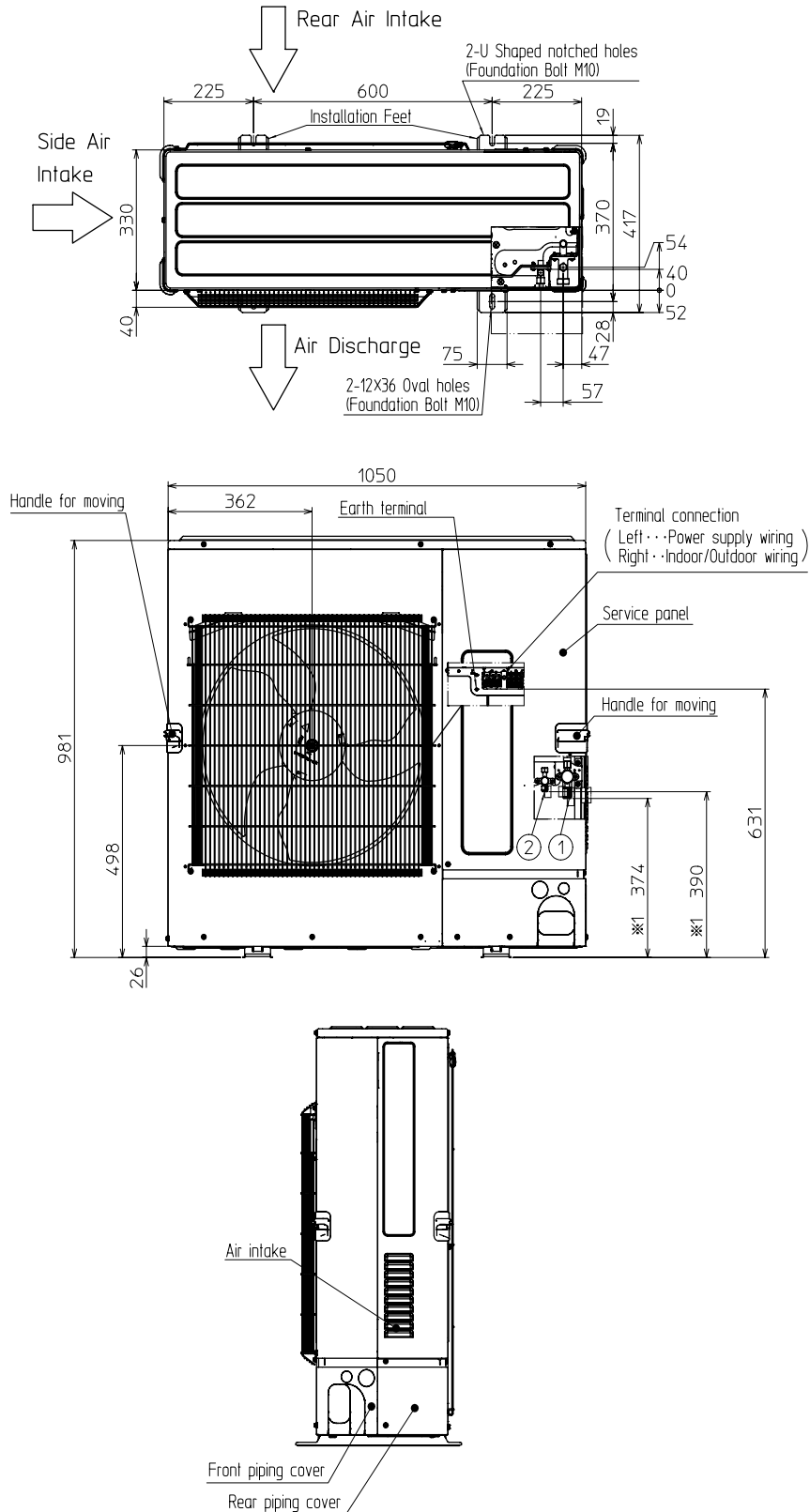
2.19 SUZ-M60/71VA
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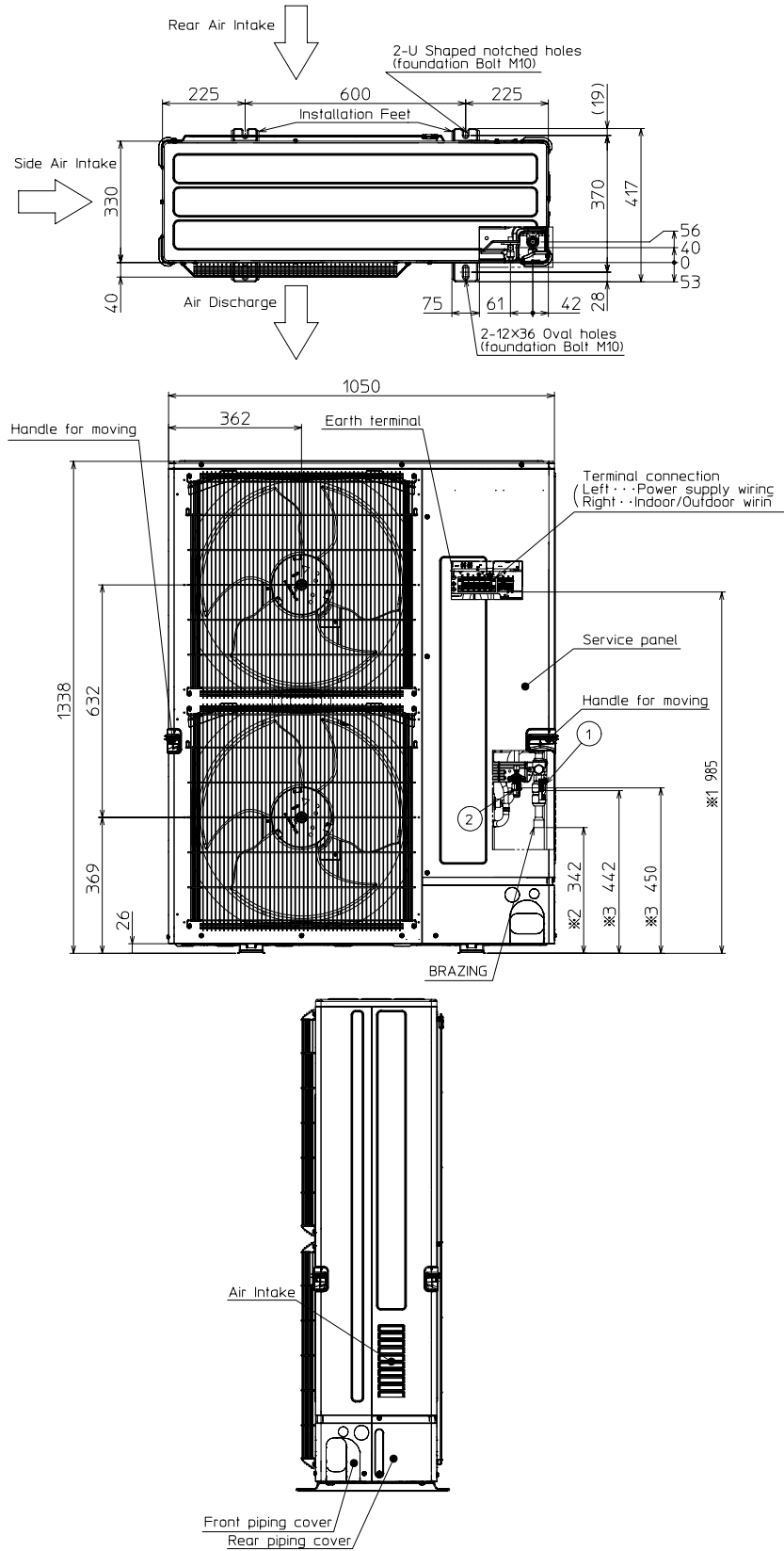
2.20 PUZ-M100-140VKA/YKA
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2.21 PUZ-M200/250YKA
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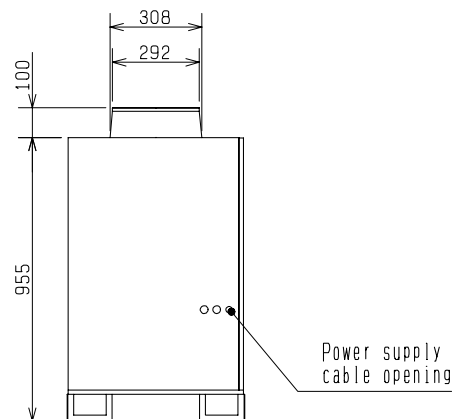
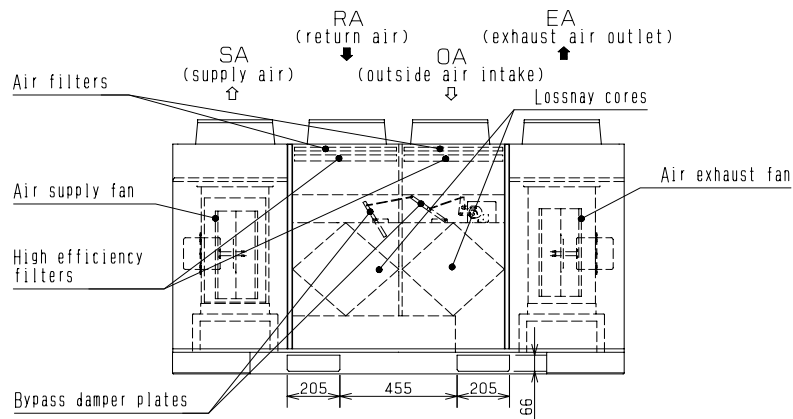
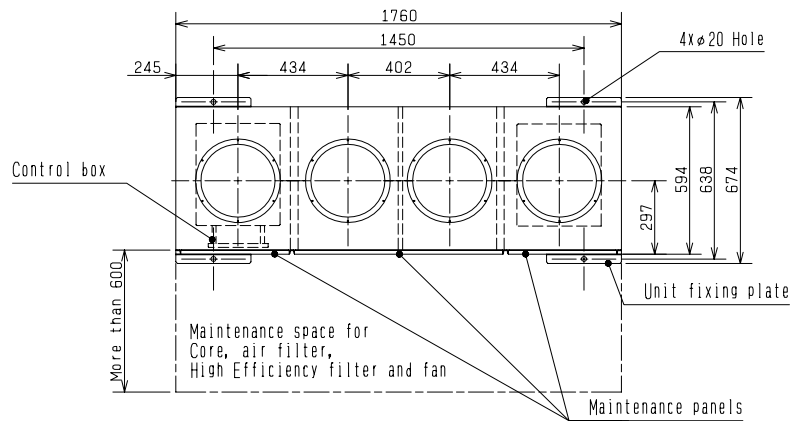


3. Lossnay

3.1 LGF-100GX-E

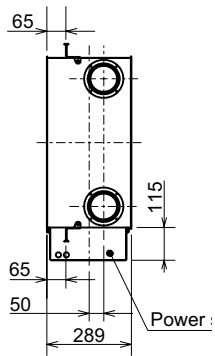
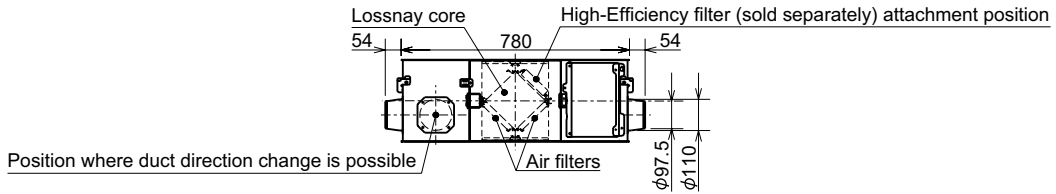
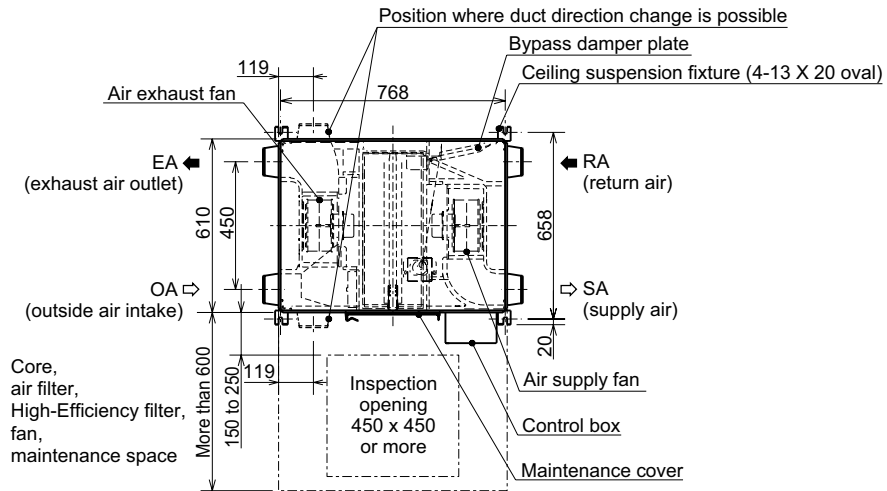
Floor mounted unit in hygienic design

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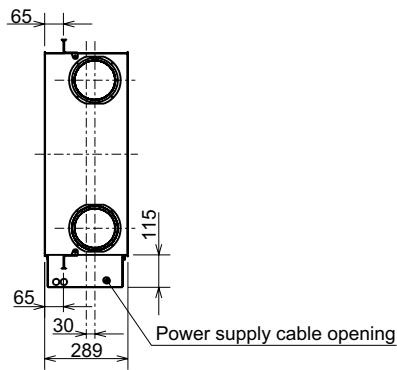
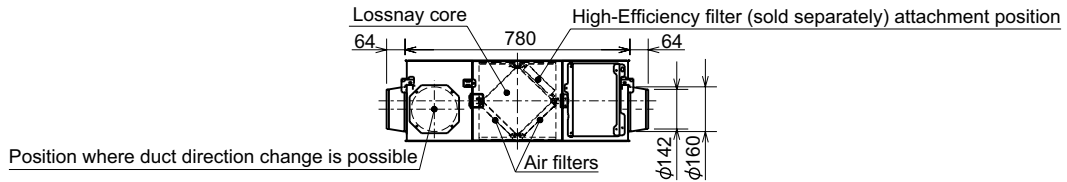
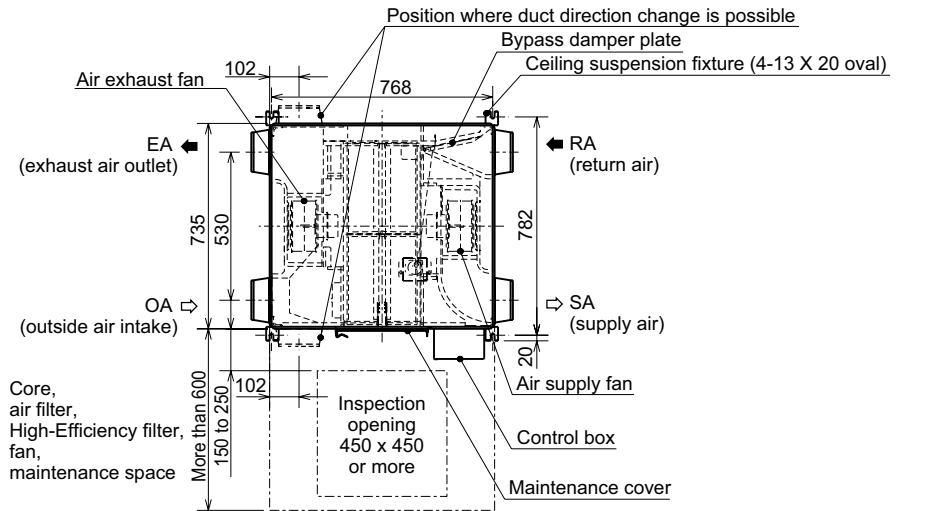
3.2 LGH-15RVX-E
Ceiling concealed ducted units

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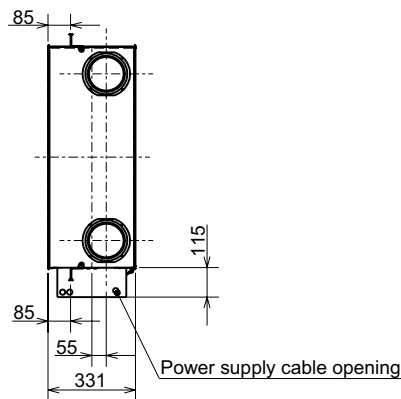
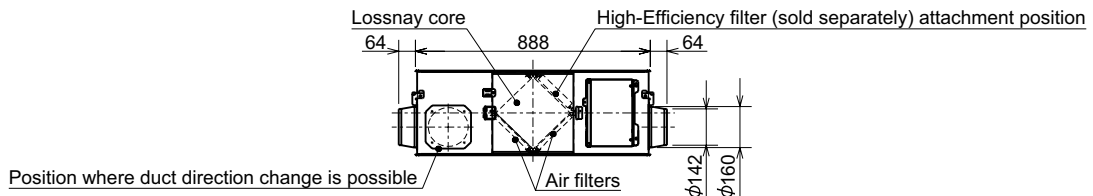
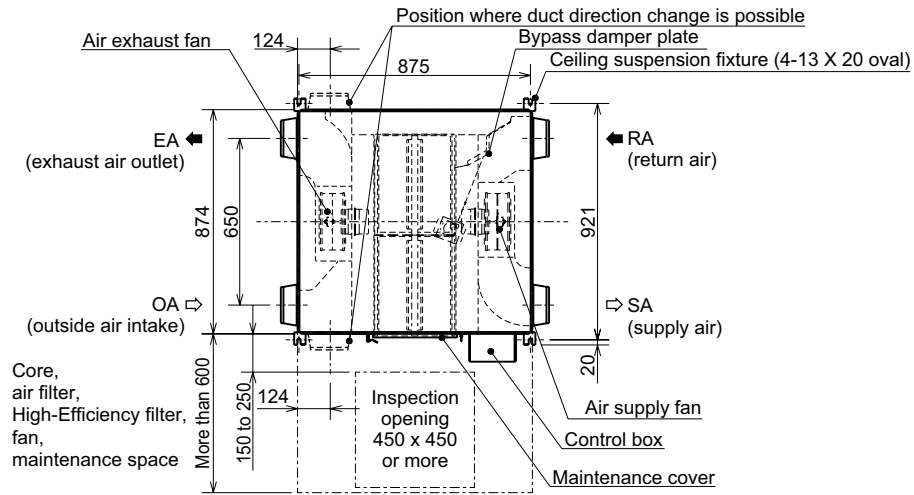
3.3 LGH-25RVX-E
Ceiling concealed ducted units

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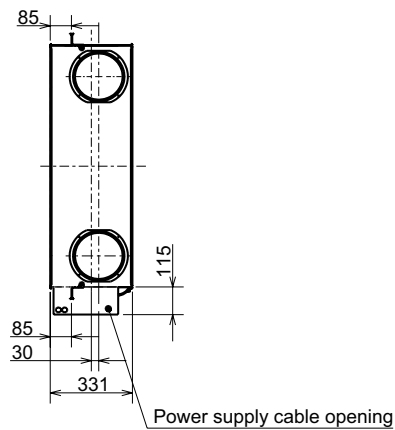
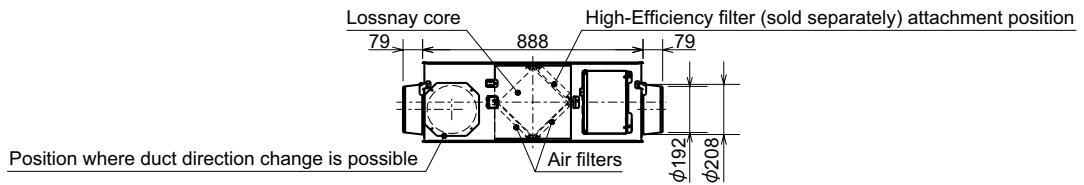
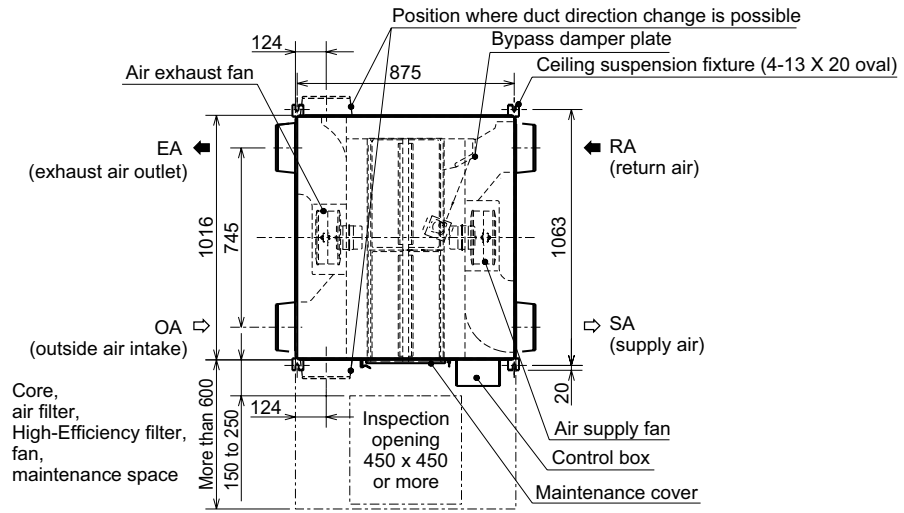
3.4 LGH35-RVX-E
Ceiling concealed ducted units

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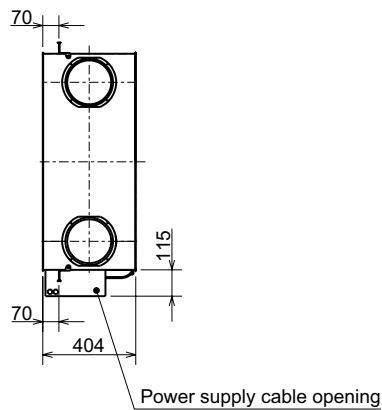
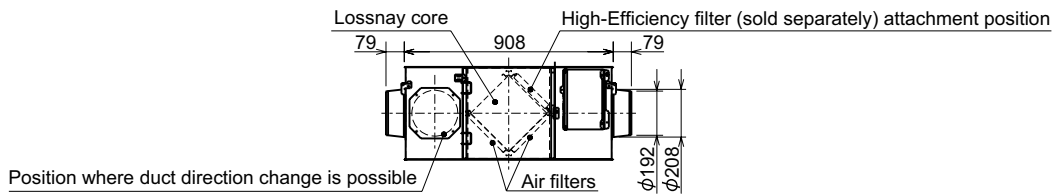
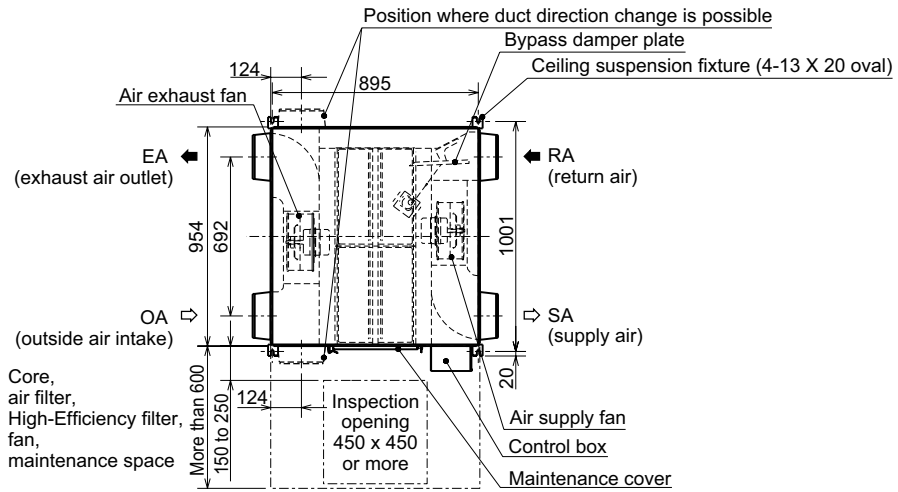
3.5 LGH50-RVX-E
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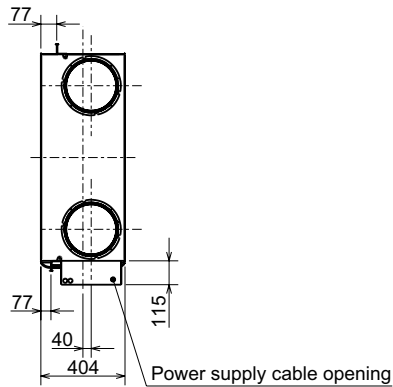
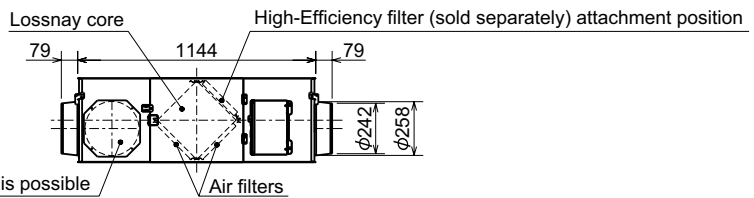
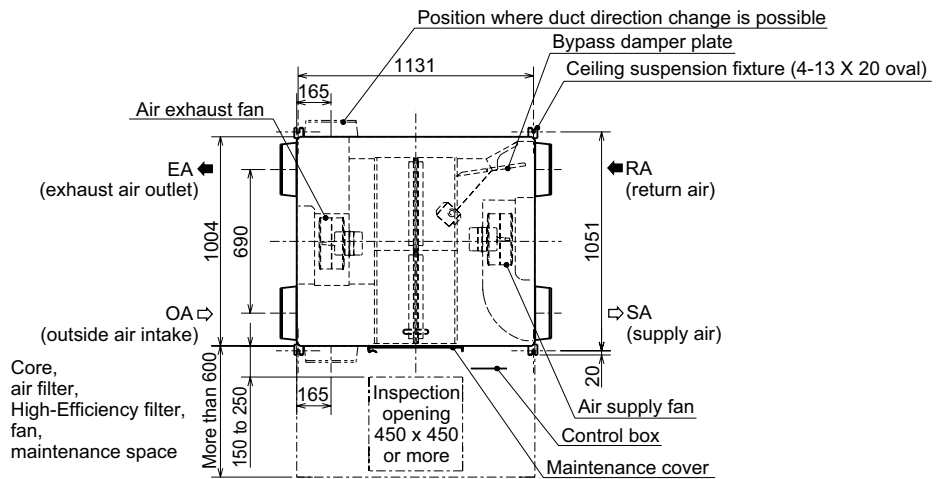
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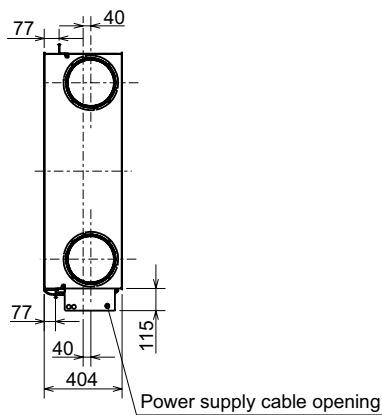
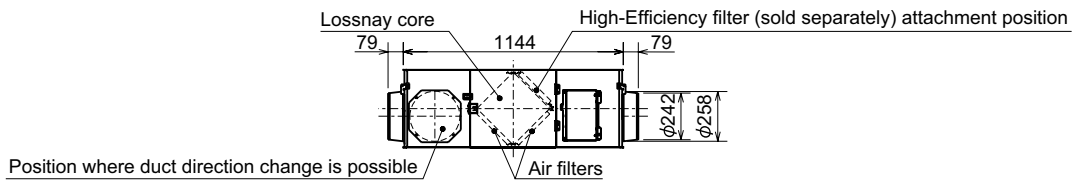
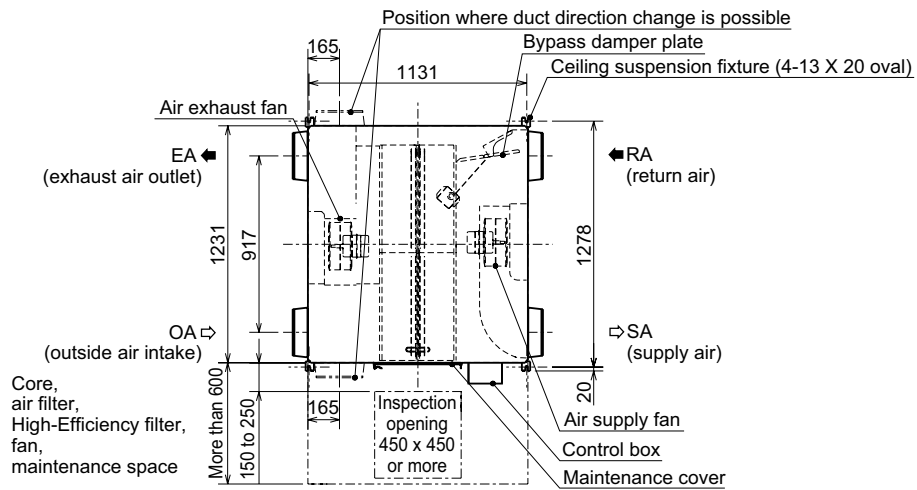
3.7 LGH80-RVX-E
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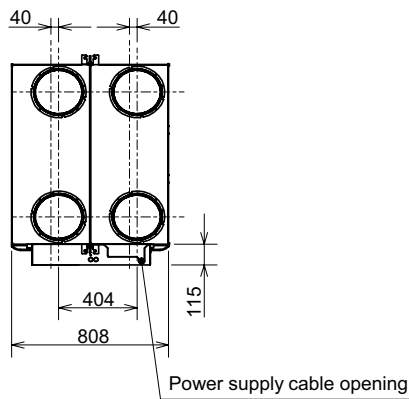
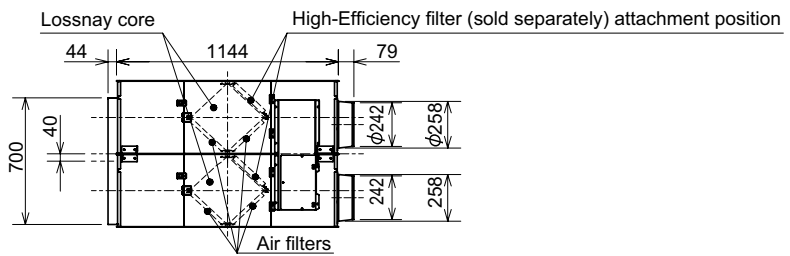
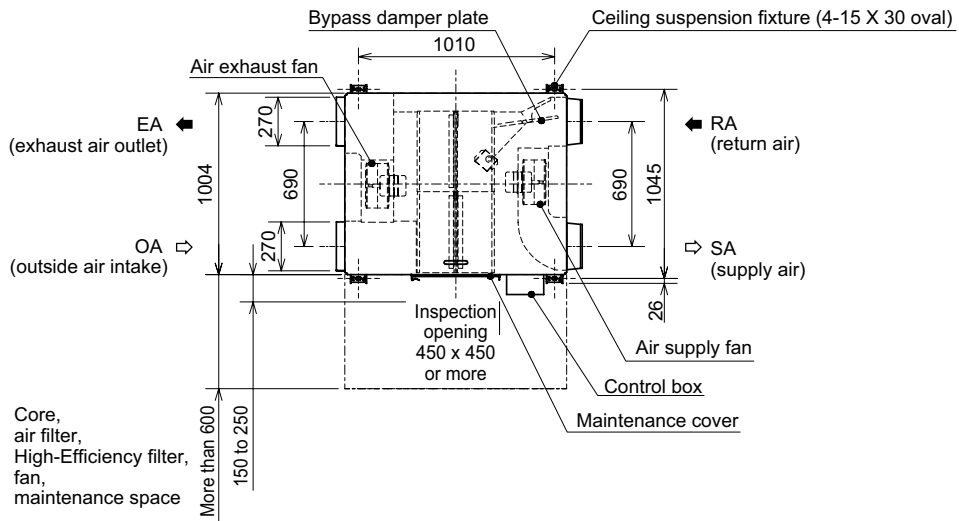
3.8 LGH100-RVX-E
Ceiling concealed ducted units

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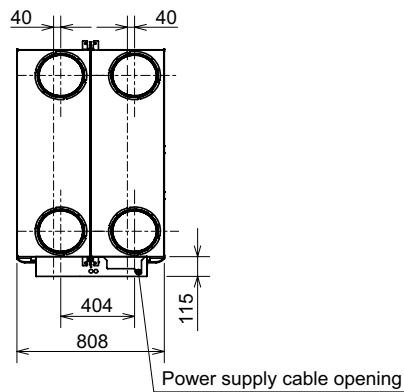
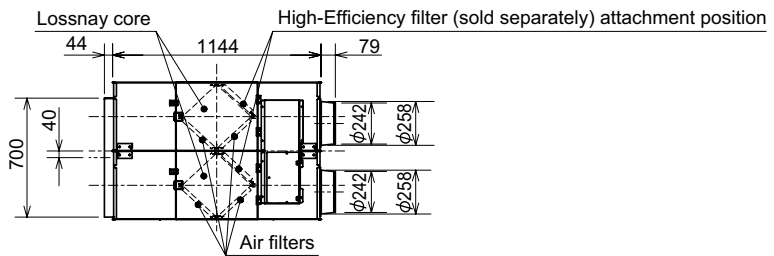
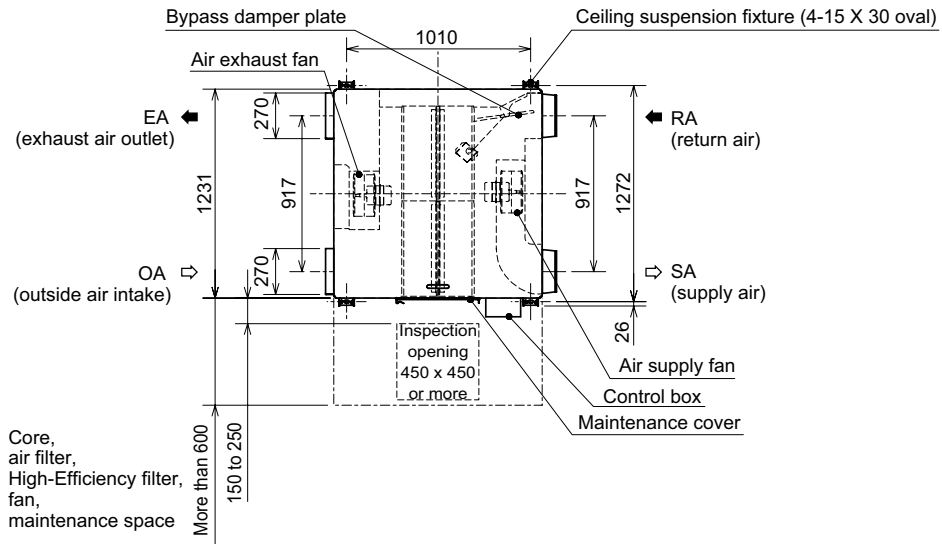
3.9 LGH150-RVX-E
Ceiling concealed ducted units

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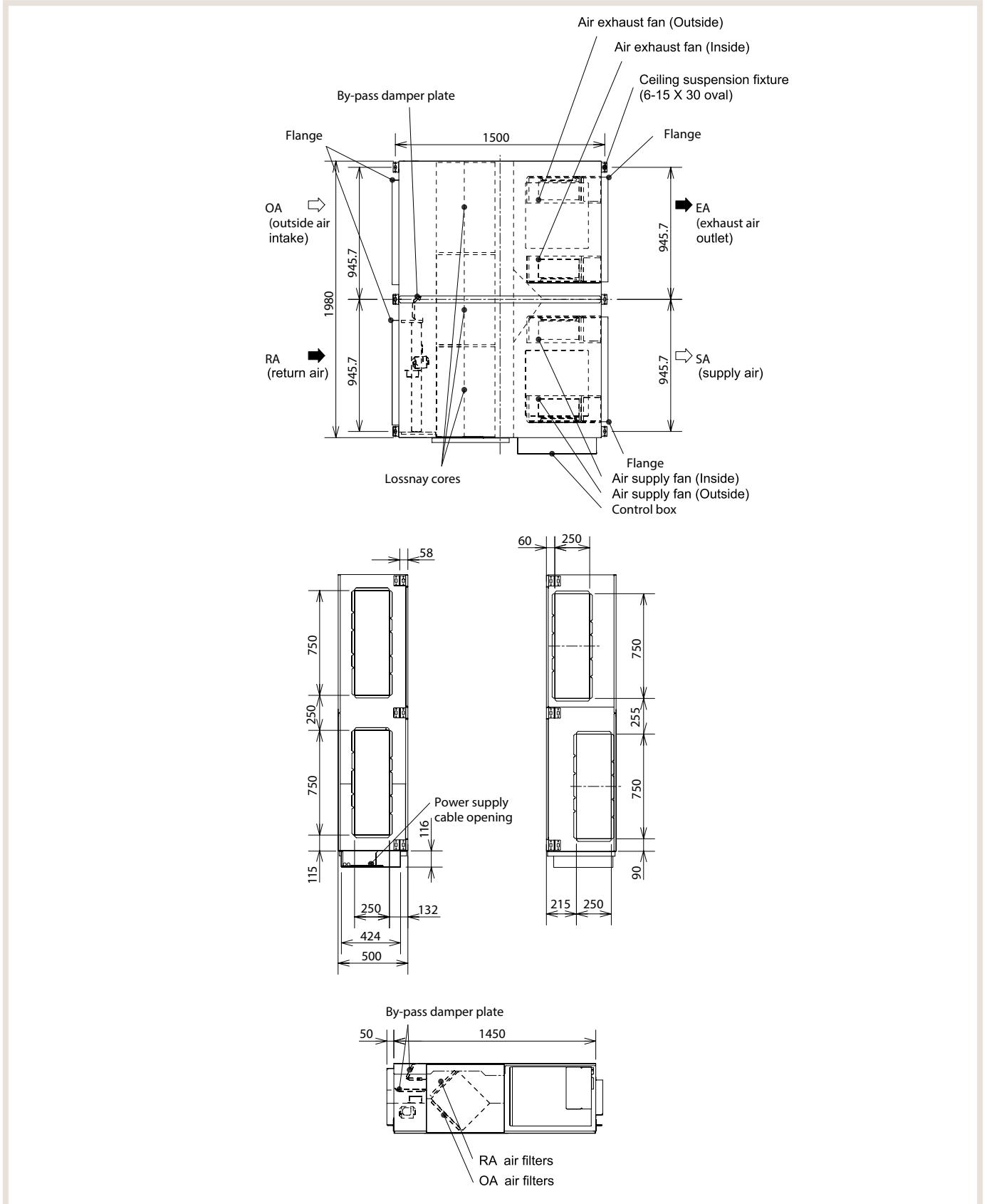
3.10 LGH200-RVX-E
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3.11 LGH-RVXT150-250-E
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Our air conditioning systems and heat pumps contain fluorinated greenhouse gases R410A, R134a and R32.
For more information, please refer to the relevant operation manuals.

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