

12. Installation Instruction

12.1 Select the Best Location

12.1.1 Indoor Unit

- Do not install the unit in excessive oil fume area such as kitchen, workshop and etc.
- There should not be any heat source or steam near the unit.
- There should not be any obstacles blocking the air circulation.
- A place where air circulation in the room is good.
- A place where drainage can be easily done.
- A place where noise prevention is taken into consideration.
- Do not install the unit near the door way.
- Ensure the spaces indicated by arrows from the wall, ceiling, fence or other obstacles.
- Installation height for indoor unit shall be at least 2.5 m.

12.1.2 Outdoor Unit

- If an awning is built over the unit to prevent direct sunlight or rain, be careful that heat radiation from the condenser is not obstructed.
- There should not be any animal or plant which could be affected by hot air discharged.
- Keep the spaces indicated by arrows from wall, ceiling, fence or other obstacles.
- Do not place any obstacles which may cause a short circuit of the discharged air.
- If piping length is over the [piping length for additional gas], additional refrigerant should be added as shown in the table.

Table A

Model	Horse Power (HP)	Piping size		Std. Length (m)	Max. Elevation (m)	Min. Piping Length (m)	Max. Piping Length (m)	Additional Refrigerant (g/m)	Piping Length for add. gas (m)	Indoor A_{min} (m ²)
		Gas	Liquid							
LZ25***	1.0HP	9.52mm	6.35mm	5	10	3	20	20	7.5	1.74
LZ35***	1.5HP	(3/8")	(1/4")							

Example: For LZ25***

If the unit is installed at 10 m distance, the quantity of additional refrigerant should be 50 g $(10-7.5) \text{ m} \times 20 \text{ g/m} = 50 \text{ g}$.

$$A_{min} = (M / (2.5 \times (LFL)^{(5/4)} \times h_0))^2$$

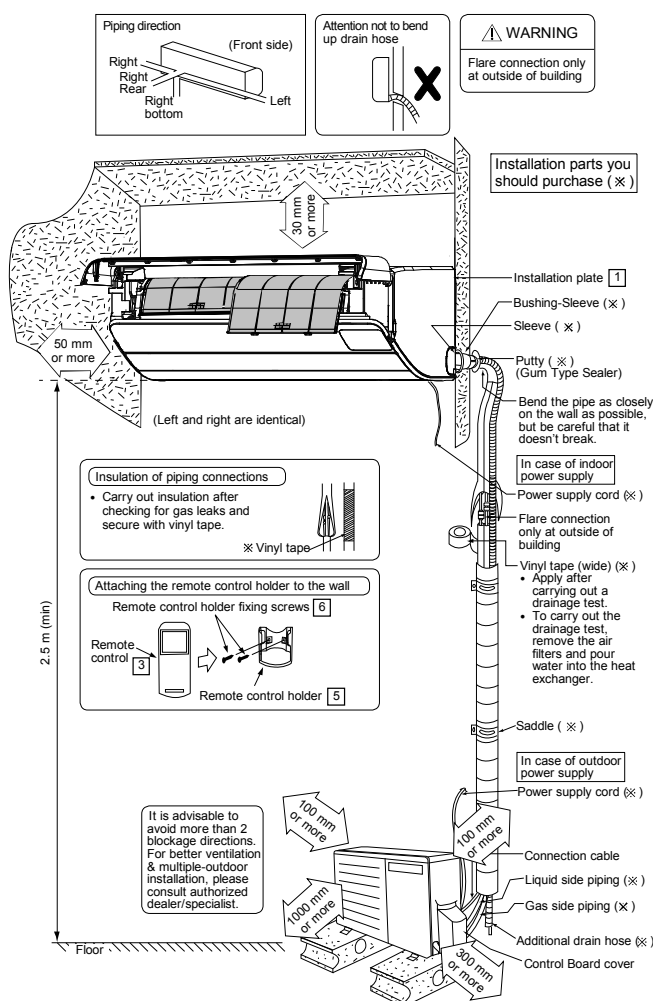
A_{min} = Required minimum room area, in m²

M = Required charge amount in appliance, in kg

LFL = Lower flammable limit (0.306 kg/m³)

h_0 = Installation height of the appliance (1.8 m for wall mounted)

12.1.3 Indoor/Outdoor Unit Installation Diagram



- This illustration is for explanation purposes only. The indoor unit will actually face a different way.