

Instruction Manual

Model:
JSZ8-4DZ
JSZ8-4DZ1



The diagram above is just for reference. Please take the appearance of the actual product as the standard.

Important! Read these instructions for use carefully. Familiarise yourself with the appliance before connecting it to its gas container. Keep these instructions for future reference.

Special Advice

When the water heater is working, gas combustion would consume a large amount of oxygen and exhaust much carbon monoxide. In view of the great harm to the human health or even death caused by excessive carbon monoxide inhalation, the company sincerely advises all users that:

- Do not install the water heater in the bathroom, bedroom, warehouses and living rooms;
- Install and use the water heater in strict accordance with the requirements in the instructions;

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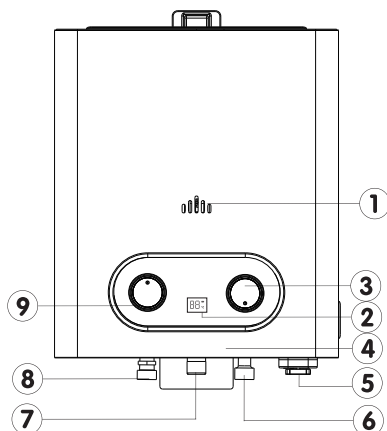
Functional Features

1. Digital Display (Optional item)
2. Water Control Automatic Ignition : Simply open the water valve and the igniter will ignite automatically with the hot water immediately available.
3. Water Temperature Regulation : Regulate the water temperature at any temperature.
4. Water Temperature Display With Low Battery Indication Function.
5. Low Water Pressure Start-up: Low start-up water pressure with a broad scope of application.
6. Steady Water Volume: Effectively avoid the impact of water pressure fluctuation on the water volume and the outlet water temperature; and prevent the outlet water not hot due to too high water pressure.
7. Flame-out Protection: The water heater will automatically cut off the gas to ensure the gas not leaked when it flames out accidentally during the use.
8. Water-gas Linkage Control: The water heater will automatically stop combustion and shut down when the supply of tap water is suspended or the water valve is shut off.
9. Over-pressure Protection: When the pressure of the water supply is too high, the safety valve of the water heater can automatically relieve pressure to avoid any damage to the water heater.
10. Thermal Protection: The water heater will automatically cut off the gas and stop working when the temperature of the water flowing out from the water heater exceeds 90 or dry burning occurs.
11. 20-minute Timing Protection: The water heater will automatically cut off the gas and power off after a 20-minute continuous operation. The water heater can continue working only after a restart.

External Structure

1. Viewport
2. *Water temperature display
3. Water Quantity Regulation Knob
4. Drain Valve
5. Battery Case
6. Cold Water Inlet
7. Hot Water Outlet
8. Gas Inlet
9. Firepower Regulation Knob

Note: All the diagrams displayed in this manual are based on the appearance of the standard gas water heater, just for illustration. The actual appearance is subject to the purchased model.



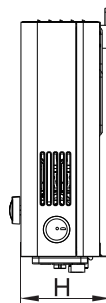
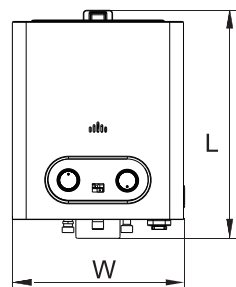
Low battery indication

Water temperature display

Technical Performance Parameters

Model		JSZ8-4DZ, JSZ8-4DZ1
Type Of Gas		ULPG
Rated Gas Pressure		2750Pa
Rated Heat Input		28MJ/h
Control Mode		Outlet Control
Exhaust Mode		Flue-type
Ignition Mode		Water Control Automatic Continuous Pulse Ignition
Applicable Water Pressure		0.03~0.8MPa
Main Injector (mm)		Φ 0.6
(Rated Yield Capacity Of The Hot Water Temperature Rise: 25k)		3.5 kg/min
Con- nector Speci- fications	Gas Inlet	G 1/2
	Cold Water Inlet	G 1/2
	Hot Water Inlet	G 1/2
Dimensions (L×W×H)		413x310x136 (mm)
Net Weight		6.0kg
Gross Weight		7.1kg

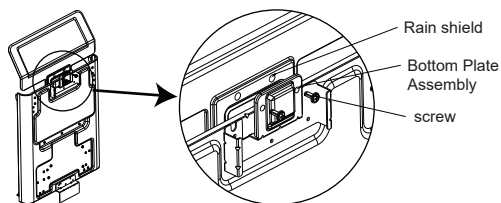
Dimension



Installation of the Water Heater

Installation Requirements

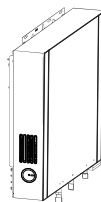
1. The device cannot be permanently installed and fixed. Please hang it securely in the open air;
2. Do not install the water heater in a place where there is strong wind, otherwise the flame of the water heater will be blown out or an incomplete combustion will occur;
3. Do not install the water heater in bathrooms, bedroom, warehouses and living rooms;
4. The installation steps are as follows: the accessory package takes out the rain shield and screws; The rain shield and screws can be assembled in sequence according to the installation diagram



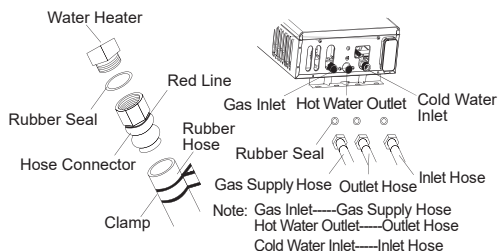
Installation modes

Note: it is absolutely forbidden to use this water heater with no smoke exhaust hose installed.

1. Keep the water heater vertical and not inclined during the installation.
2. Installation of the Gas hose
 - a. Select specified rubber houses or qualified rigid hoses and gas pressure relief valve.(AS/NZS1869 and AS 4621)
 - b. Select the dimensions of the hose according to the Connector Specifications in the Technical Performance Parameter list.
 - c. The length of the rubber hoses cannot be greater than 1.5m when the liquefied gas is used.Install a rubber seal ring between the gas intake of water heater and the hose connector.
 - d. Install a rubber seal ring between the gas intake of the water heater and the hose connector.The rubber hose must be connected to the red line of the hose connectorred line of the hose connector and must be fastened with a clamp.
 - e. Use the soapy water to check whether there is a gas leak.

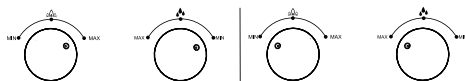
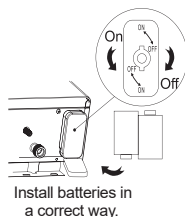


Installation



Note:Place a rubber seal ring when using metal hoses.

The connectors at the bottom would be in a different order for different models. Connect them according to the instructions on the water heater.



When the TEMPERATURE is at "HIGH" mode, the WATER FLOW is at "MIN", the outlet water temperature is the highest.

When the TEMPERATURE is at "LOW" mode, the WATER FLOW is at "MAX" mode, the outlet water temperature is the lowest.

Using method

Preparations before Ignition

1. During the initial use of the water heater, open the battery case and put in two D batteries according to the correct battery polarity.
2. Switch the water inlet valve to the maximum and switch on the hot water outlet valve to check whether there is water flowing out.
3. Then, switch off the hot water outlet valve and fully open the cylinder gas valve.

Ignition/Operation

1. Ignition: After the preparation work, open the hot water outlet valve, and the water heater will make a "poop" sound, and then the hot water will immediately flow out. If the water heater cannot be ignited for one time, switch off the hot water outlet valve at once and restart it after 10-20 seconds. (Note: For some models, adjust the Hot/Cold Water switch to the hot water mode before ignition.)
2. Outlet water temperature regulation: Switch the firepower regulation knob to "Max" or switch the water temperature regulation knob to "High", the outlet water temperature can be increased; switch the firepower regulation knob to "Min" or switch the water temperature regulation knob to "Low", the outlet water temperature can be decreased.

Discontinuing

1. Switch off the hot water outlet valve and the water will automatically shut down.
2. Switch off the water inlet valve.
3. Switch off the cylinder gas valve.

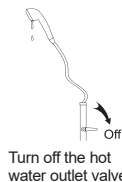
Replacing Batteries

1. If the time interval of the "poop" sound during ignition is a little long (twice a second), or the fire is soon extinguished after ignition, change the batteries immediately.
2. Use sealed damp-proof iron clad batteries. Normally, or Change the batteries every half a year.

Cautions

Prevention of Gas Accident

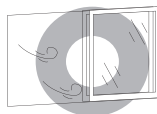
1. Determine the type of gas make sure the type of gas you are using agrees with the type of gas specified in the rating plate of the water heater. Do not disassemble the water heater without authorization and use a different type of gas by force.
2. Check whether the combustor is extinguished after the use and remember to shut off the cylinder gas valve.
3. Frequently check whether there is a gas leak in the connectors and the gas line. Normally, change the rubber hoses once a year.



Special Attention: When the hot water is used again after suspended for a while, do not wash your body with the hot water at the very beginning. That is because when the hot water is suspended for a while, the water temperature of the water heater will become very high. The hot water can be used only a few seconds after the hot water flows out to avoid scalding.



Frequently check whether there is a gas leak in the connectors.



4. For LP gas users, if the flame of the water heater is detected floating, the pressure relief valve connected to the vent of the gas cylinder may fail to work properly. Then stop using the pressure relief valve and replace a qualified one instead.
5. It is forbidden to operate the water heater with any failure. Contact our maintenance department timely once any failure occurs.
6. This water heater is only used for the hot water supply and shower. Do not use it for any other purpose.
7. This appliance shall only be used with a ULPG, refillable container, certified to AS 2030 series.
8. IT MAY BE HAZARDOUS TO ATTEMPT TO FIT OTHER TYPES OF GAS CONTAINERS.

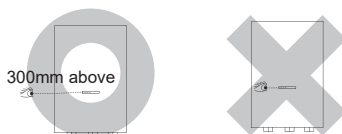
Prevention of fire

1. Do not place any combustibles near the draft hood of the water heater. Do not use towel, clothes and other things to cover the vent.
2. The equipment should be used away from flammable materials with a minimum distance of 0.5 m from adjacent flammable surfaces (e.g. walls, ceilings).

Prohibited installation

Water heater installation operation process prohibits the following points:

1. Installation or permanent mounting.
2. Connection to a fixed piping system for water or gas.
3. Connection to a flue system.



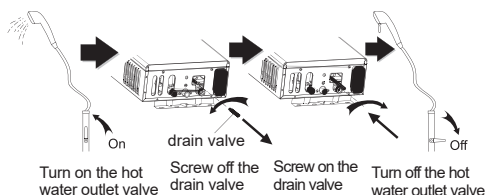
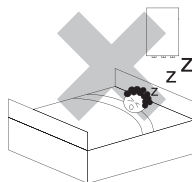
Prevention of Carbon Monoxide Poison

1. A large amount of oxygen is needed when the water heater is used. Therefore, the site where the water heater is installed must have enough air for supplement and be well-ventilated. The room where the water heater is installed must have a fixed open air intake. The closed doors and windows cannot be classified as effective air intakes.
2. When the manufactured gases or natural gases are used, if the gas supply pressure is too low, there may result in tempering, hence affecting the normal operation of the water heater. At this point, the flame will turn from blue to yellow and the discharge of Carbon Monoxide will increase significantly. Stop using the water heater at once.
3. ONLY USE IN WELL-VENTILATED AREAS.
4. CARBON MONOXIDE HAZARD-USING THIS APPLIANCE IN AN ENCLOSED SPACE MAY CAUSE DEATH. DO NOT USE IN CARAVANS, TENTS, MARINE CRAFT, CARS, MOBILE HOMES OR SIMILAR LOCATIONS.

Other cautions

1. Non-potable: Since there is water stored in the water heater for a long time, the hot water provided by the water heater is not potable, just used as non-potable water.
2. Freezing prevention: When the water heater is used in cold areas where the ambient temperature is below 0 °C, the water stored in the water heater must be drained to prevent the water heater is damaged, since the water will expand when it freezes. The water can be drained as follows:
 - a. Switch the water temperature regulation knob to "Low" after shutting off the water inlet valve.
 - b. Switch on the hot water outlet valve.
 - c. Screw off the drain valve. After draining the water, screw on it and shut off the hot water outlet valve. Since there is a rubber gasket in the drain valve, screw it with great force.
3. During ignition, it is strictly forbidden to observe the ignition with the eyes closely near the viewport. The distance between the eyes and the viewport should be at least 300mm.

4. When the water heater is not used for a long period of time, take the dry batteries out from the battery case to prevent the battery case from corrosion due to the damage to the batteries, hence leading to poor contact and affecting the use of the water heater.
5. **CAUTION: ACCESSIBLE PARTS MAY BE VERY HOT. KEEP YOUNG CHILDREN AWAY. USE OUTDOORS ONLY.**
 "This appliance shall only be used in an above ground open air situation with natural ventilation, without stagnant areas, where gas leakage and products of combustion are rapidly dispersed by wind and natural convection."
 "Any enclosure in which the appliance is used shall comply with one of the following:
 (A) An enclosure with walls on all sides, but with no overhead cover.
 (B) Within a partial enclosure that includes an overhead cover and no more than two walls.
 (C) Within a partial enclosure that includes an overhead cover and more than two walls, the following shall apply:
 (1) At least 25% of the total wall area is completely open.
 (2) 30% or more in total of the remaining wall side, back and front wall areas is open and unrestricted.
 (3) In the case of balconies, 20% or more of the total wall area shall remain open and unrestricted.
6. The appliance is not suitable for installation or connection to a reticulated gas supply.
7. Do not modify this appliance.
8. Check that seals between the appliance and the gas container are in place and in good condition before connecting the gas container.
9. Do not use this appliance if it has damaged or worn seals.
10. Do not use this appliance if it is leaking, damaged or does not operate properly.
11. Gas containers shall be changed in a well-ventilated location, preferably outside away from people and any sources of ignition, such as naked flames, pilot flames, electric heaters/equipment.
12. If there is a leak from your appliance (smell of gas) and you cannot stop the gas flow, remove the appliance to a well-ventilated location away from any ignition source. Check for leaks using soapy water. Do not try to detect leaks using a flame.
13. If there is a leak on your appliance (smell of gas), immediately attempt to turn off the cylinder valve. Remove the appliance to a well-ventilated location away from any ignition source. Check for leaks using soapy water. Do not try to detect leaks using a flame.
14. Only use the hose assembly as supplied with this appliance for connection to the cylinder - **DO NOT USE ADAPTORS.**
15. This appliance must only be serviced by an authorized person.
16. After use, turn the gas cylinder valve off wait for the flame to go out, then turn the appliance control valve(s) off.
17. Avoid twisting or kinking the flexible hose.
18. Special conditions that must be avoided during use, such as the marine environment, and any conditions required to ensure optimum performance.
19. Keep the air intake and outlet smooth, do not block the air intake and outlet.
20. It is recommended that the size of the liquefied cylinder should not exceed $\Phi 320 \times 680 \text{mm}$.
21. When the appliance is not in use, the cylinder and water source should be disconnected and turned off.
22. Store cylinders outdoors in a well-ventilated place out of reach of children
23. The size of the fire can be adjusted by the fire knob, and the size of the water can be adjusted by the water quantity knob to meet the water quantity and water temperature requirements.

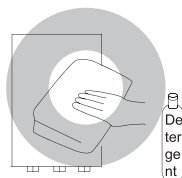
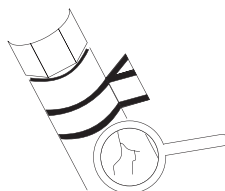
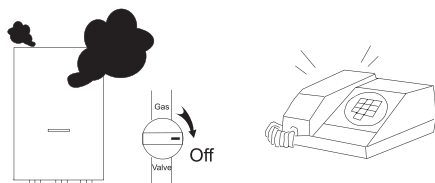


24. The water pump cannot pump in water with sediment such as river water or lake water, only clean water can be used.
25. When the length of the inlet pipe of the water pump is less than or equal to 1m, the length of the outlet pipe should be less than or equal to 4m; When the length of the inlet pipe of the water pump is less than or equal to 4m, the length of the outlet pipe should be less than or equal to 1m.
26. After the portable gas water heater is connected to the gas tank, it cannot be used directly after transportation to avoid loosening of the gas interface due to vibration during transportation, which may cause gas leakage.

Treatment of Abnormalities

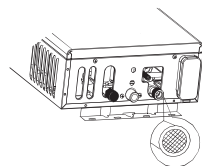
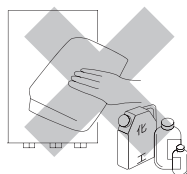
When abnormalities are detected such as a gas leak, abnormal combustion (such as tempering flame lifting, tallow smoke emission), peculiar smell and abnormal sound, or other emergent situations, immediately shut off the gas valve and contact the maintenance department or the gas company for treatment.

The equipment should be used away from flammable materials with a minimum distance of 0.5 m from adjacent flammable surfaces (e.g. walls, ceilings).

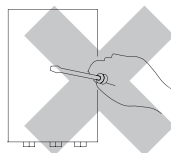


Maintenance

1. Frequently check whether the Gas Intake Hose (rubber hose) is in good condition and whether there is aging or ant flaw. Regularly change the rubber hose and frequently use the soapy water to determine whether there are bubbles at the hoseline connectors.
2. After the water heater is used for a period of time (generally about half a year), it is necessary to check and normally. Frequently observe the burning conditions of the flame. When the flame turn form blue to yellow and there arises black smoke, contact the technician in time for cleaning.
3. Frequently use soft cleaning cloth to wipe the hull of the water heater with clean water or neutral deter - gent rather than chemical detergent or volatile solvent. Otherwise, the color of the hull will fade away and tarnish.
4. Regularly clean the water intake filter of the water heater.
5. When the water heater is not used for a long period of time, screw off the drain valve and drain the excess water in the water heater to avoid and damage to the water heater according to the other cautions.







Water Inlet Filter



Repairing Services

1. The water heater must be regularly checked and cleaned by the professional personnel.
2. Non-professional personnel cannot open the front cover of the water heater.

Packing List

Name and Illustrations	Quantity	Name and Illustrations	Quantity
 Water Heater	1	 Accessory box	1
 Instruction Manual	1	 Warranty Card	1

Troubleshooting

The following phenomena are not failures

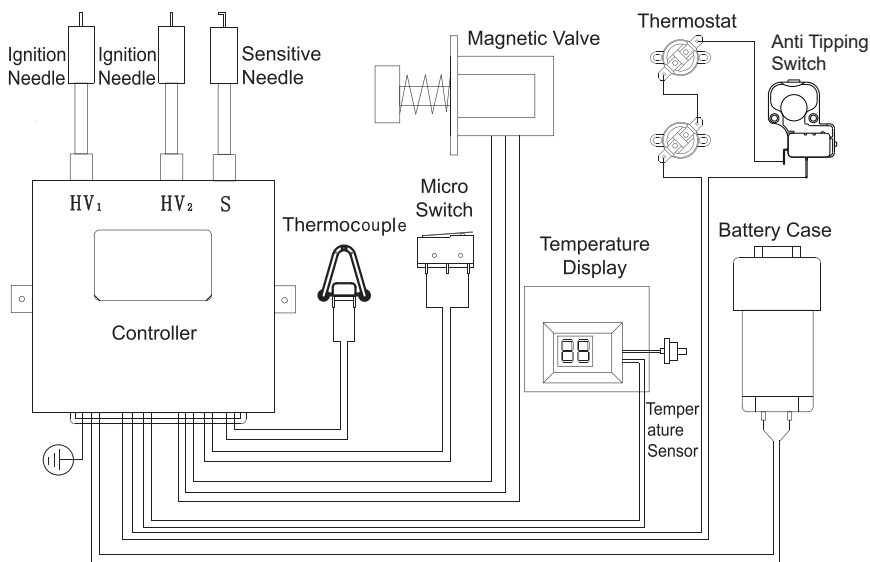
Problem	Root Causes and Corrective Actions
The vent release white smoke	The temperature is too low, so the exhaust gas is condensed into white fog when meeting the outdoor cold air.
The hot water becomes cold because of low flow.	When the hot water is in low flow (below the start-up water pressure), the water heater blows out and hot water becomes cold. Therefore, do not leave the hot water in low flow.
The water heater flames out suddenly after being used for 20min.	In case of the lack of oxygen, some models have the 20-minute timing protection function, that is, after a 20-minute continuous use of the water heater, the water heater will automatically extinguish. Please turn off the hot water faucet and use the water heater after a while.

Please check the following sites under the following circumstances

Problem	Root Causes and Corrective Actions
The water heater cannot ignite.	<ul style="list-style-type: none"> • The cylinder gas valve is not opened. Fully open the cylinder gas valve. • The power is not switched on and the power fails. Switch on the power. • The gas pressure is improper. Contact the maintenance personnel to check the pressure regulation valve. • The water supply pressure is insufficient and the inlet valve is not opened fully. Fully open the inlet valve and ask the maintenance personnel to check the water pressure. • There is an internal failure. Contact the maintenance department. • There is air in the gas hose. Switch on and off the hot water outlet valve continuously for many times until the water heater ignites.

<p>No hot water flows out.</p>	<ul style="list-style-type: none"> • The water inlet valve is not opened fully. (The water heater will flame out when the water flow is too low.) • The start-up time is too short. • The water freezes. • The gas is used up or not enough. • The water hose is too long, and it will take a certain time for the hot water to flow out. 	<p>Fully open the water inlet valve.</p> <p>Wait for a moment.</p> <p>Remove the ice.</p> <p>Add gas.</p> <p>Wait for a moment.</p>
<p>The water is not hot enough.</p>	<ul style="list-style-type: none"> • The water flow is too large and the heating capacity of the water heater is insufficient. • The temperature is set too low. • The mode is the "Summer-Autumn" mode. 	<p>Lower the water flow.</p> <p>Raise the temperature.</p> <p>Switch to the "Winter-Spring" mode.</p>
<p>The water temperature is too high.</p>	<ul style="list-style-type: none"> • The water flow is too low. • The temperature is set too high. • The mode is the "Winter-Spring" mode. 	<p>Increase the water flow.</p> <p>Lower the temperature.</p> <p>Switch to the "Summer-Autumn" mode.</p>

Internal Wiring Diagram



Appendix D

(normative)

Diagrammatical representations of outdoor areas

Figure D.1, D.2, D.3, D.4 and Figure D.5 are diagrammatical representations of outdoor areas as described in the definition [Clause 1.3.40](#). Rectangular areas have been used in these figures - the same principles apply to any other shaped area.

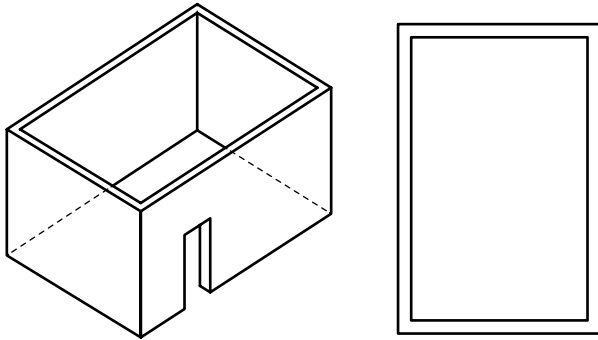


Figure D.1 — Outdoor area — Example 1

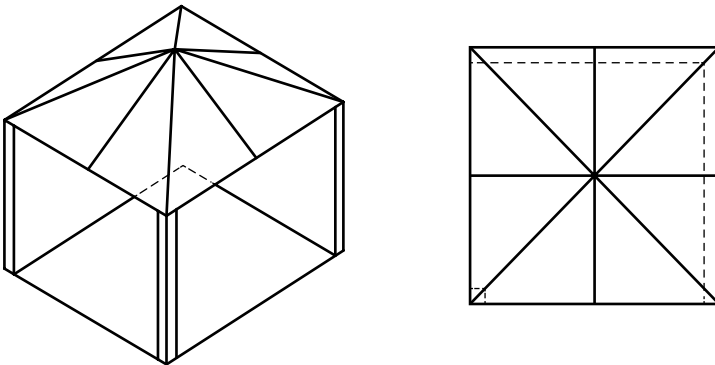


Figure D.2 — Outdoor area — Example 2

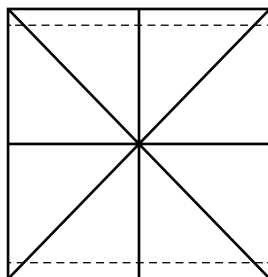
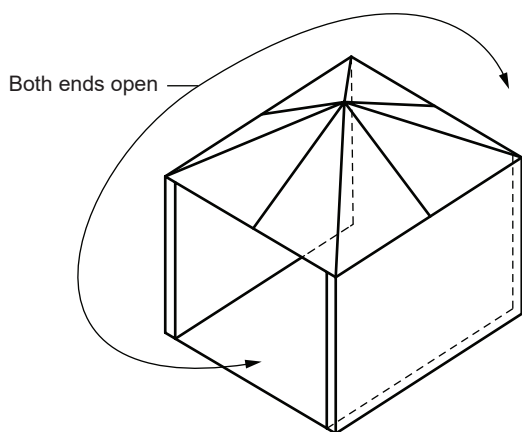
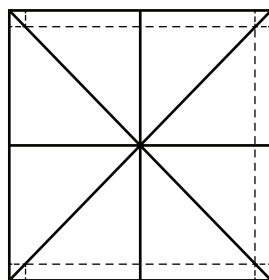
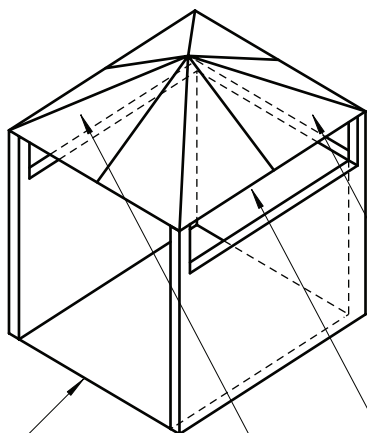


Figure D.3 — Outdoor area — Example 3



30 percent or more in total of the remaining wall area is open and unrestricted

Figure D.4 — Outdoor area — Example 4

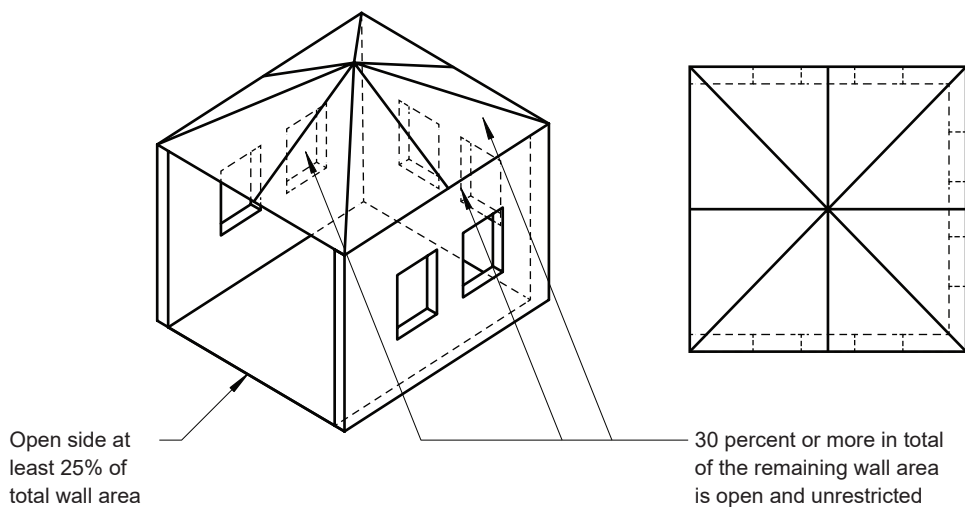


Figure D.5 — Outdoor area — Example 5

The product is subject to change without notice.
Please keep this manual properly.