Installation Guide (Ver. E)

IP rated outdoor display

Jan 07, 2020 LGE

Air flow direction

The outdoor unit uses cooling fans to take in outside air to lower the internal temperature and discharge the hot air. When installing an outdoor unit, remove any obstacle near the air inlet and outlet that may affect air flow.

55XE4F

49XE4F





Cooling Concept

There are two-layered air flow for cooling OL and CL.

In Closed Loop, air flows only inside. In Open Loop, air flows using outside air.



The opening size for air inlet and outlet should be minimum 50%. Air inlet and outlet should be grid or mesh types. Do not use the louver type as it has limited intake.



Portrait

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Landscape

This clearance is for water drain.

If you make own casing or structure, do not screen clearance by structure. If block the clearance. It does not warranty water proof under water pour. The purpose of partition separate area between air inlet and outlet. Below image are shown several example about separation.



Example 2)



For cooling purposes, a fan is used to intake out side air through the inlet and hot air is discharged through the outlet. So, make sure to separate the inlet and outlet

Enclosure unit partition design

- For outdoor units, add partitions between the inlet and outlet inside the enclosure unit to keep air paths separated.
- The partition shape should perfectly fit to a shape of display unit, with no gap between the display unit and enclosure unit.



Single enclosure Unit

Opening size : * Outdoor installing scene A Hole: 42,900 mm² or more per each 1 2 3 (B) Hole: 14,880 mm² or more per each C Hole: 19,104 mm² or more per each All hole opening ratio (% of total opening): 50% or more Free standing Wall-mounting Hung onto obstructions **Example 1)** For free standing **Example 2)** For Hung onto obstructions Top View In-let: Back In-let: Back ₽₩₽ Out-let: Back Out-let: Top/bottom **Back View** Side View **Back View** 06

Single enclosure Unit

Opening size : * Outdoor installing scene A Hole: 42,900 mm² or more per each 1 2 3 **(B)** Hole: 14,880 mm² or more per each C Hole: 19,104 mm² or more per each All hole opening ratio (% of total opening): 50% or more Free standing Wall-mounting Hung onto obstructions **Example 3)** For 2) Wall-Mounting and 3) Hung onto obstructions **Example 4)** For Wall-Mounting and Hung onto obstructions In-let, Out-let: Top/Bottom Ín-let, Out-let: Right/Left Top View \mathbb{C} Left View **Back View Back View**

Double side enclosure Unit

Opening size :

A Hole: 12,640 mm² or more per each
B Hole: 25,260 mm² or more per each

All hole opening ratio (% of total opening): 50% or more

A Hole: on the Top surfaceB Hole: on the Side surface



Double side enclosure Unit

Opening size:

A Hole: 12,640 mm² or more per each
B Hole: 25,260 mm² or more per each

All hole opening ratio (% of total opening): 50% or more

A Hole: on the Top surface B Hole: on the Side surface



Clearance for enclosure

Installing the outdoor unit in the enclosure

- When installing the built-in to the wall, keep the distance from the back in order to secure air flow.
- If the direction of casing ventilation is back same as XE4F, It is better to do it with zero gap.

Single Side Enclosure



Double Side Enclosure



Installing the outdoor unit only

- When installing the built-in to the wall, keep the distance from the back, top, bottom, and sides of the product in order to secure air flow.
- If the unit is subject to excessive heat due to an insufficient gap, this may cause a malfunction, which will not be covered by the warranty.



Rotation

• To install in landscape orientation, rotate the screen clockwise 90 degrees while facing it from the front.



Installing Enclosure unit

Installing an enclosure unit

- When installing an enclosure unit close to the wall, keep the distance in order to secure air flow. Consult your provider for detailed requirements before installing the product. Excessive heat due to the use of the enclosure unit with an obstacle or a wall may cause a malfunction or a problem to the product.
- Distance for 49/55XE4F (A): 100 mm or more
- Remove any obstacle near the inlet and outlet that may affect air flow



Remove the appropriate hole gasket before connecting cables.

- 7 Ø hole : For inserting 7~7.5 Ø cables
- 6.5 Ø hole : For inserting 6.5~7 Ø cables
- 6 Ø hole : For inserting 6~6.5 Ø cables
- 5 Ø hole : For inserting 5~5.5 Ø cables
- 3.5 Ø hole : For inserting 3.5~4 Ø cables



When there is no cable connection, Do not remove hole gaskets. This will lessen the protection of your product against water and may result in a malfunction due to water damage, which will not be covered by the warranty.





	Display mounting		
	А	В	Screw
49XE4F	1048	490	M9 /15mmm
55XE4F	1186	560	

To use the VESA Wall Mount, a separate bracket is also required.



Single pole mounting



Fixing point of display



Double pole mounting



Fixing point of display

