



Premium Public Displays

# Installation Notes



**DynaScan**

Version 1.1

The use of diagrams and illustrations in the manual for reference only; actual product may be different.

Product design and specifications are subject to change without notice

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# Handling

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- Always use a team of people to handle the display.
- Extra care should be taken when handling narrow bezel LCDs. An impact with the edges could cause the LCD panel to crack.

**Adhere to the handling signs printed on the Box.**



Handle With Care



Keep Dry



Contents Fragile

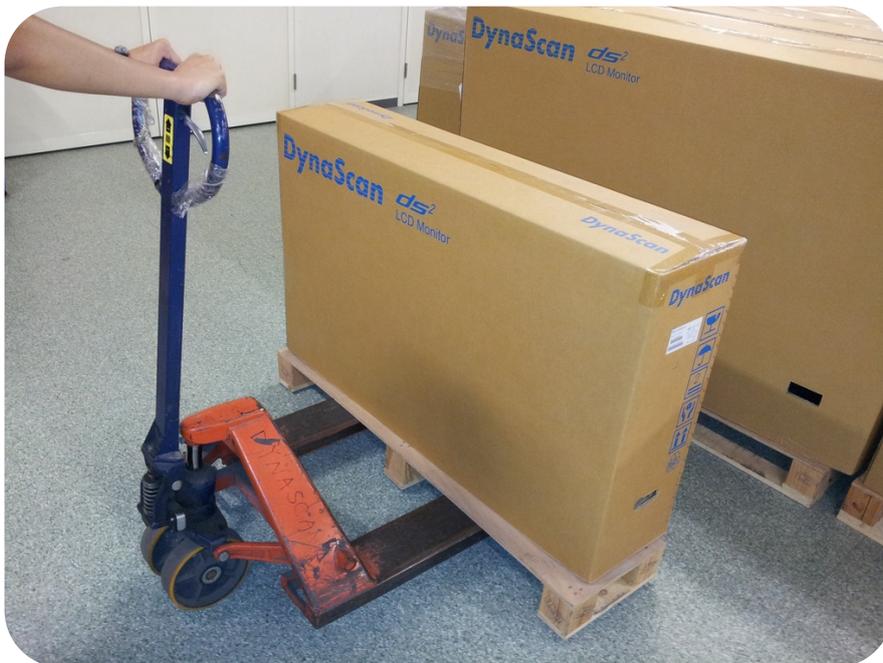


This Side Up

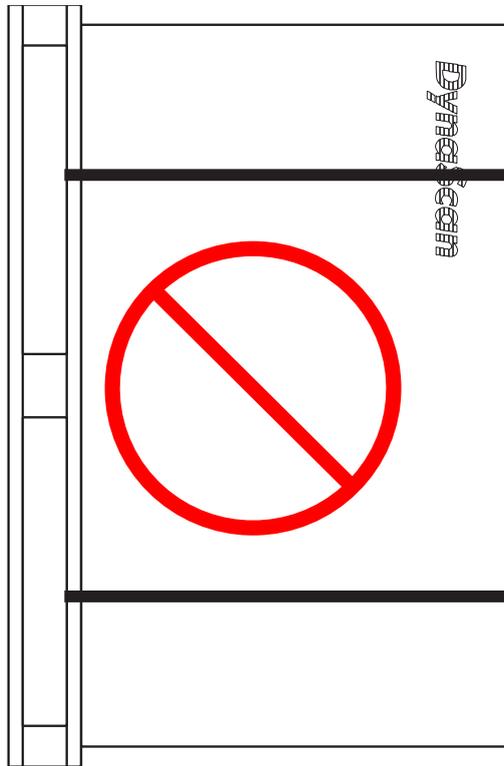


Stack Height

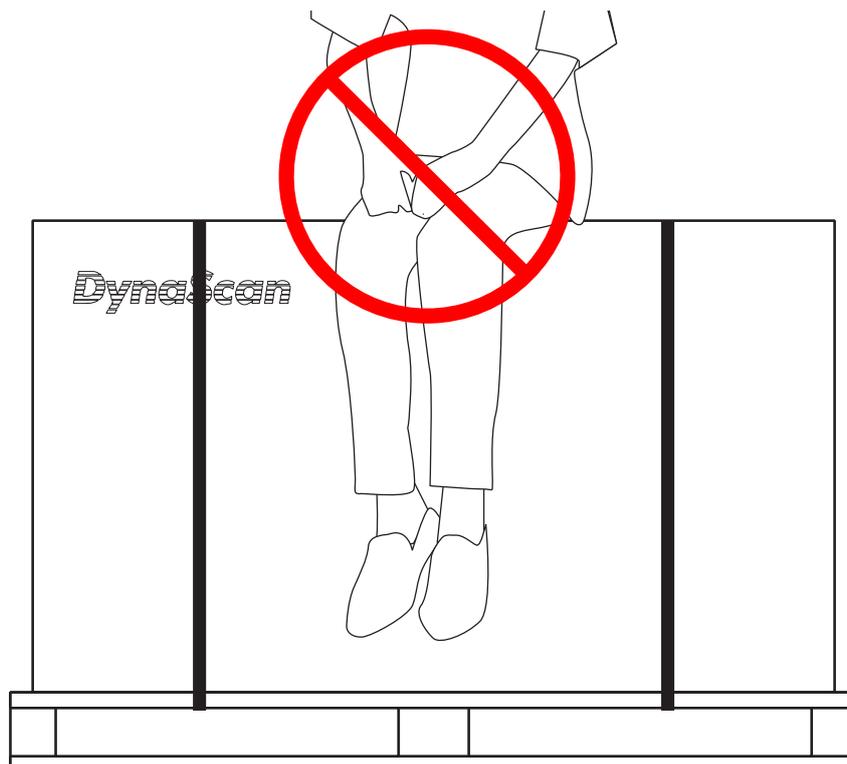
**Use a pallet jack when moving the display.**



**Do not drop or lay the LCD box on its side.**



**Do not sit or lean on the box.**



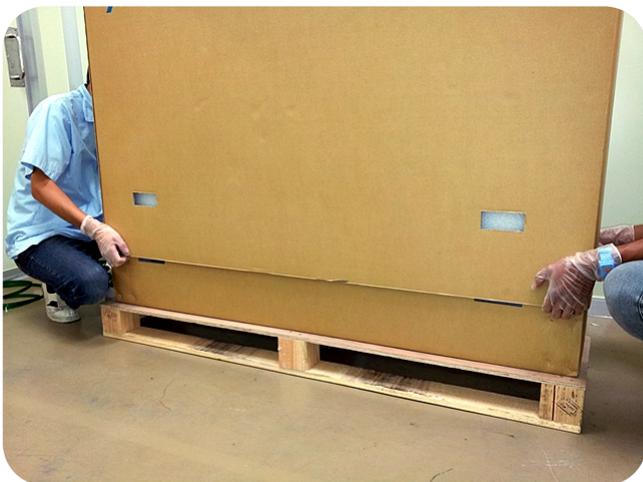
## Unboxing the Display



1. Cut packing strap off the box.



2. Remove plastic clips by pulling tab.



3. Remove the top packaging by lifting up.



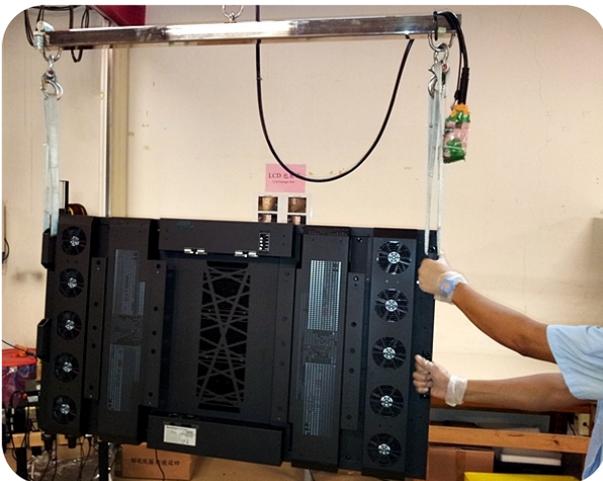
4. Remove the protective poly bag.



5. Lift up the set using the back handle and remove bottom packing when lifting up the display.



6. With two hands grabbing the set, move the display.



7. For larger models, use a lifting tool when unpacking or repackaging.



8. Lay the face of the display downward on a soft, padded surface.

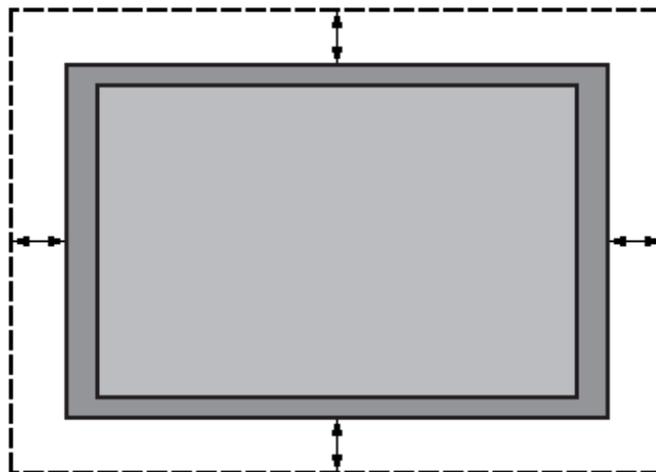
# Wall Mount Installation

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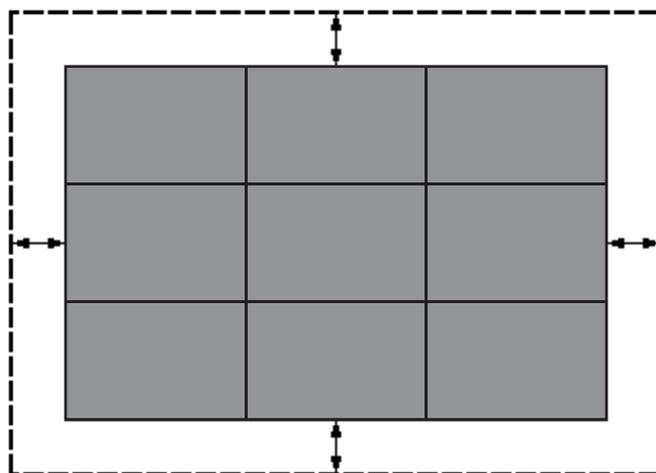
The LCD must be properly installed using a wall mount. Incorrect installation may cause injury or damage the equipment. Product warranty does not cover damages caused by improper installation and DynaScan shall not be held responsible in such incident. Refer to the mount manufacturer's instructions for proper installation.

## Installation Location

- The wall and mount must have enough strength to support the LCD and its accessories.
- Do not install in a location with strong vibrations or is dusty.
- Do not install near the building's main electric panel.
- Ensure the LCD is secured in such a manner that it cannot be easily removed by the general public.
- Leave clearance around the outer edge of the LCD (or video wall matrix) from other objects to ensure proper ventilation.
- For installations with screens inset into the wall, refer to section: **Enclosures** for cooling and ventilation considerations.



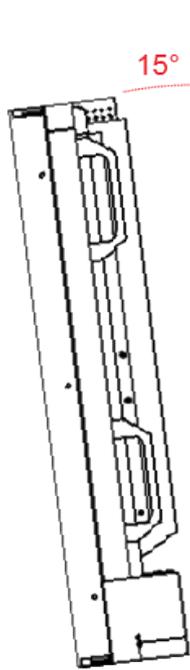
Single display



Video wall

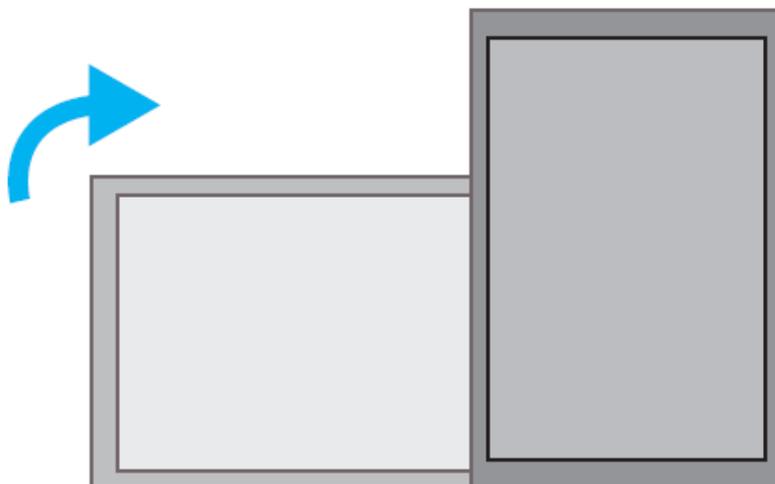
## Wall Mounting

- A wall mount is not included. Please purchase a VESA Standard wall mount to secure the LCD. DynaScan is not responsible for damages caused by using non-standard wall mounts.
- Verify that the mounting location can support the weight of the LCD before installation.
- The installation angle must be within 15 degrees of the vertical axis.
- Do not install the wall mount while the power is turned on as it may cause serious injury from electrical shock



## Orientation

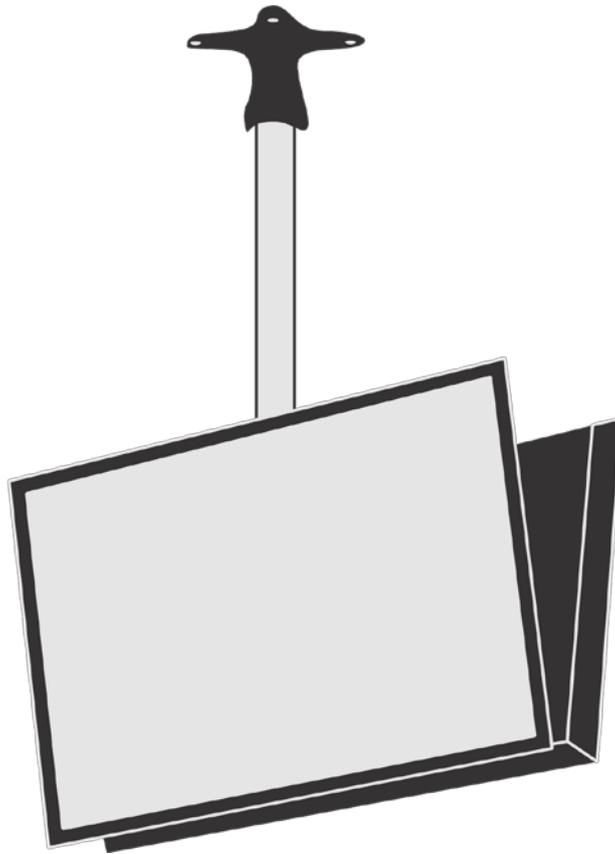
When used in the portrait orientation, the LCD should be rotated clockwise when looking at the front of the display such that the left edge becomes the top edge.



Portrait mode: Rotate the set clockwise 90° (mandatory)

# Hanging From a Ceiling

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- Ensure that the ceiling is strong enough to support the LCD and its accessories. Also consider the effects of earthquake, unexpected vibration, and other external forces when evaluating the ceiling strength.
- The LCD should be secured to the building's structural frame, such as a beam, and not to materials such as light steel frame or interior decoration.
- Do not use wood screws or dry wall anchors for installation.
- Refer to the mount manufacturer's instructions for proper installation.

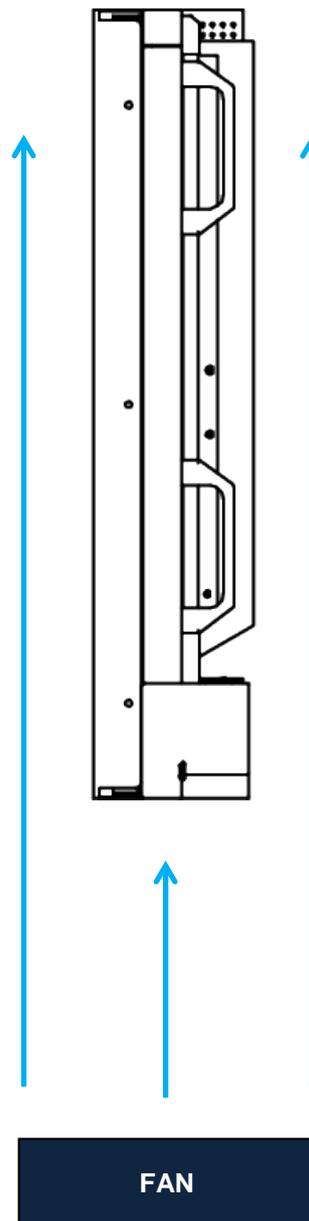
## **When mounting on a wall or hanging from a ceiling**

- Hanging the LCD from the ceiling or mounting it on the wall is the responsibility of the user. Not all ceilings provide enough strength to support the LCD. The LCD may drop and cause serious injury if it is hanging from the ceiling with insufficient support or is mounted on a slanted wall.
- Product warranty does not cover improper installation, modification, or damages caused by natural disasters.
- DynaScan recommends hiring certified professionals to evaluate the installation site and mounting operation.
- Do not cover the vent and/or the heat sink in order to ensure proper heat dissipation.

# Operating Temperature

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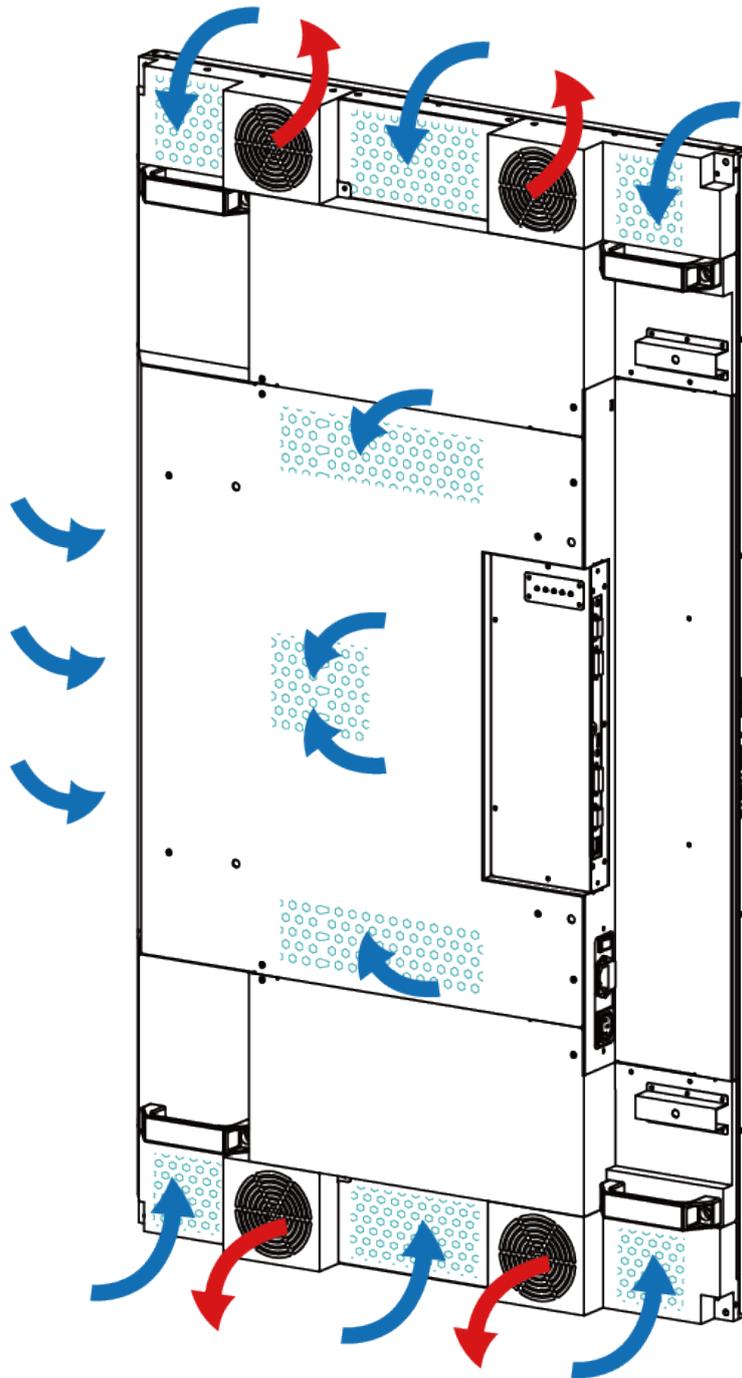
Operating temperature must be maintained between 0°C-40° C (32°F-104°F). To maintain the proper operating temperature, you may consider using a cross flow fan beneath the display as shown below.



## Ventilation (Fan-cooled models)

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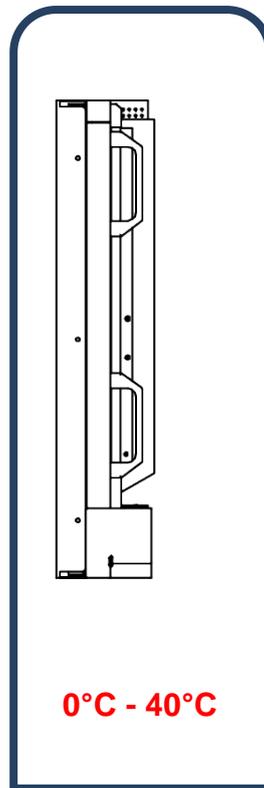
To maintain the proper operating temperature, cool air must be allowed to enter the display and hot air must be allowed to exit the display. Obstructing fans and vents, or not providing cool air to the rear of the display can cause the display to overheat. (See below example).



# Enclosures

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For outdoor applications, an external enclosure is required to protect the display. When designing the enclosure, the temperature inside the enclosure must be maintained between 0°C-40°C (32° F–104°F). Always consult your local enclosure builder or integrator for additional recommendations.

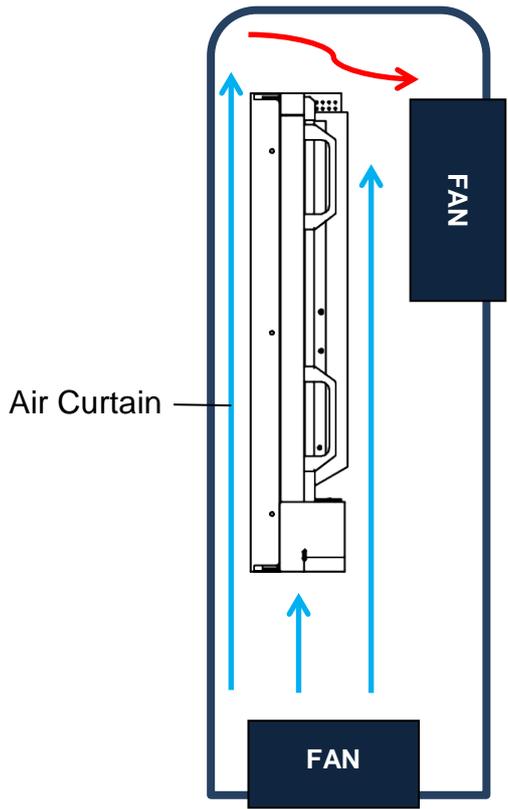


**Enclosure**

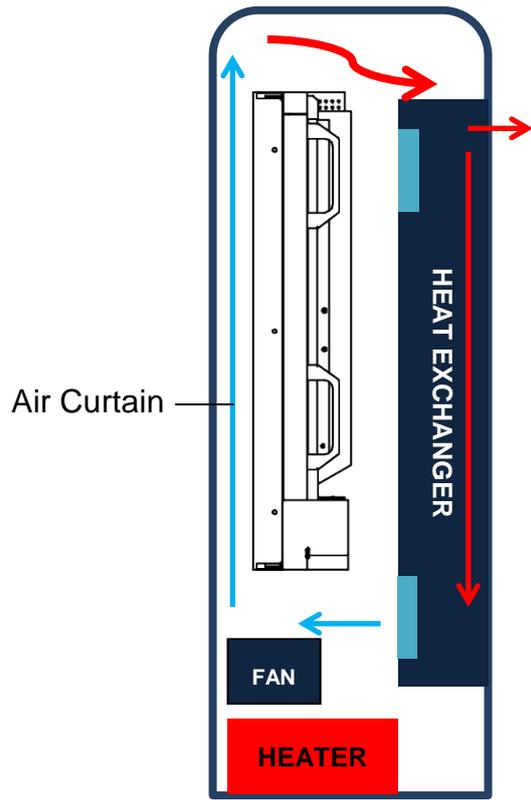
## Using a Cooling & Heater Solution

To maintain the proper operating temperature inside the enclosure, you may consider using a cooling and heater solution such as an air conditioner, heat exchanger, or combined cooler and heater depending on the external environment. (See below examples)

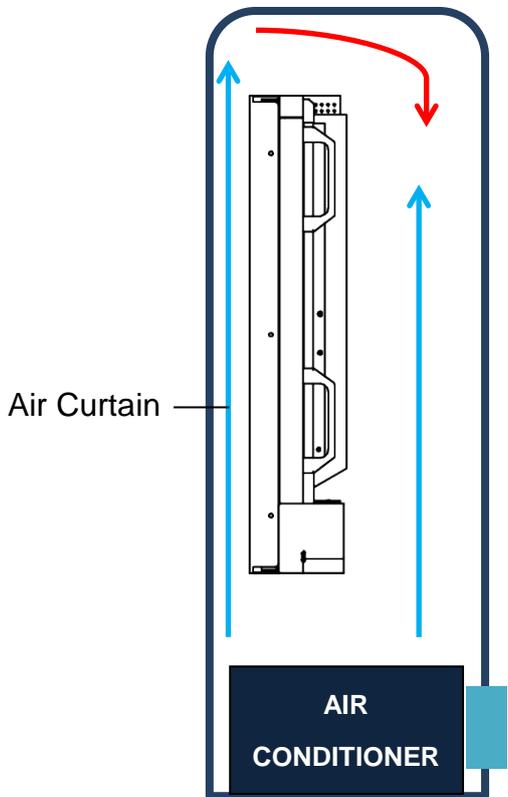
- You can also employ an air flow circulation system and air curtain\* between the front panel and the enclosure.
- An enclosure rated IP65 or better is recommended.
- Use an air filter to prevent dust. (At air inlet and outlet)
- For preventing from rust of lead frame in circuit board, operate the heater if relative humidity is too high.



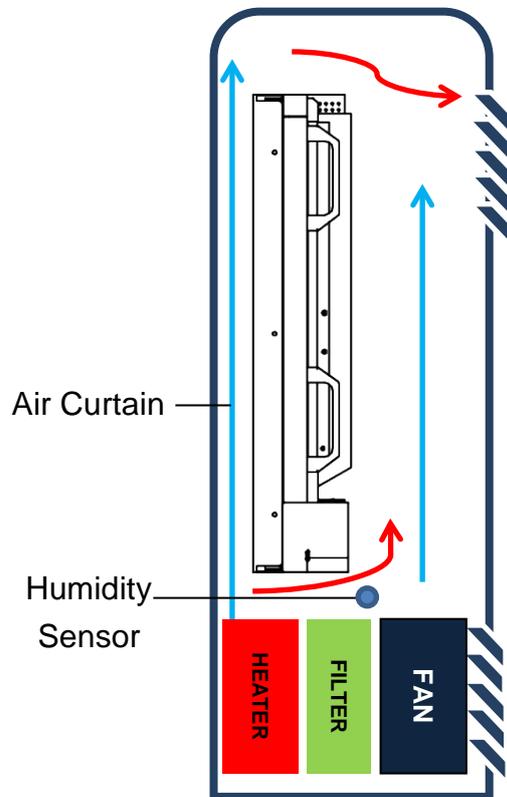
Example 1: Enclosure (Fans Only)



Example 2: Enclosure (Heat exchanger)



Example 3: Enclosure (Air Conditioner)



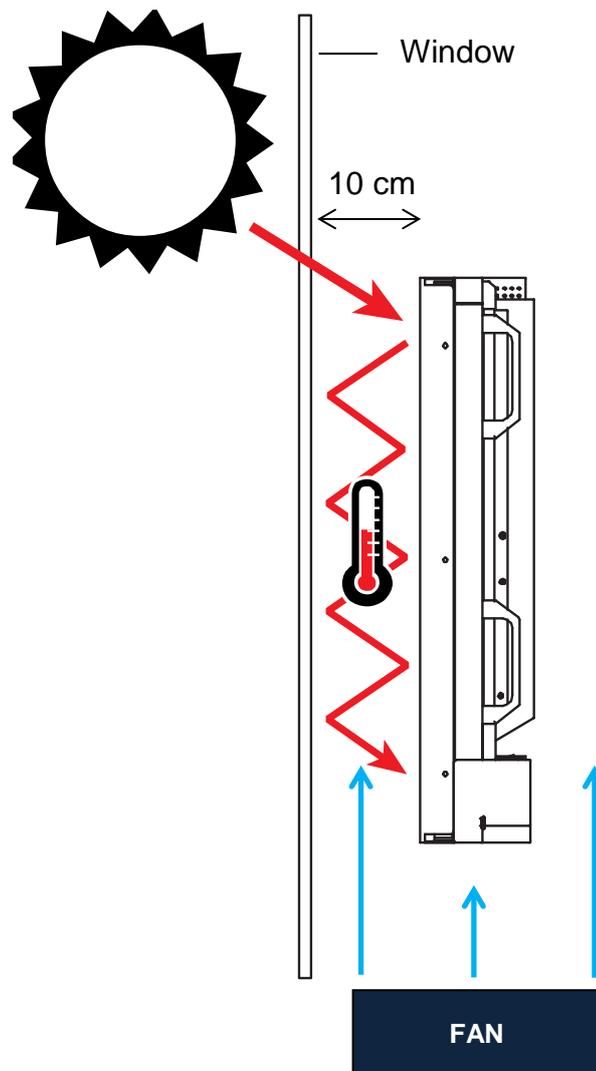
Example 4: Direct Air Cooling

# In-Window Applications

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Extra cooling considerations must be made when placing a display in a window. Heat from sunlight can become trapped between the window and the LCD panel surface, causing what is known as a greenhouse effect. To maintain the proper operating temperature behind the window, you may consider using a cooling solution such as a cross flow fan or air conditioner, (See below example)

- A gap of at least 10 cm (4") is recommended between the window and the front of the LCD.
- A gap less than 10 cm, or installations in direct sunlight, will require the use of a cross flow fan.
- Both the area in front of the display and to the rear **must be maintained between 0°C - 40°C (32°F - 104°F)**.
- Electrical lighting such as spotlights can raise the ambient temperature in the area and should be accounted for.
- The use of UV and/or IR films on the window may be used to help minimize heat entry. Consult your local integrator for recommendations.

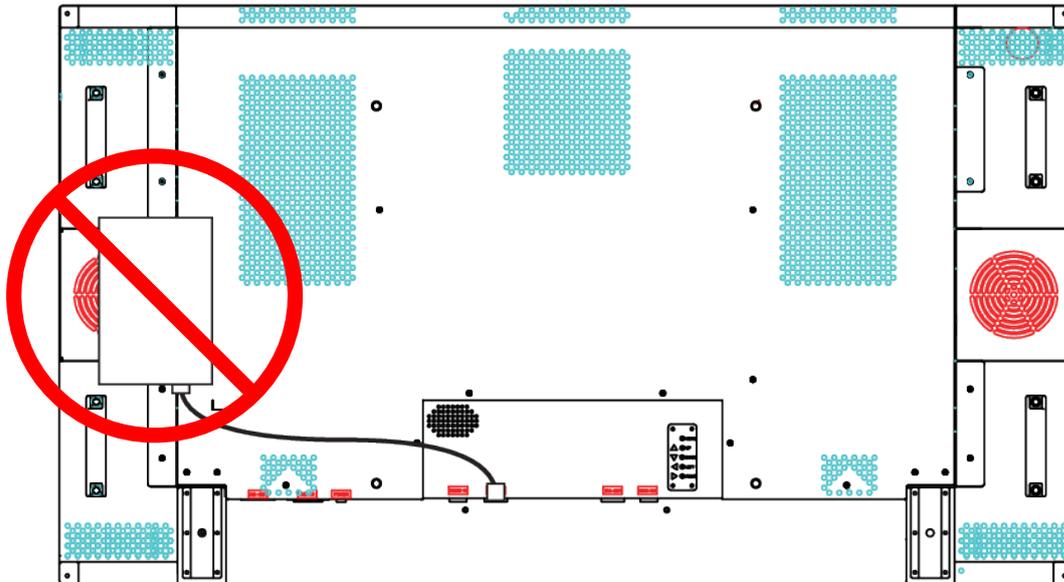


# Media Player Location

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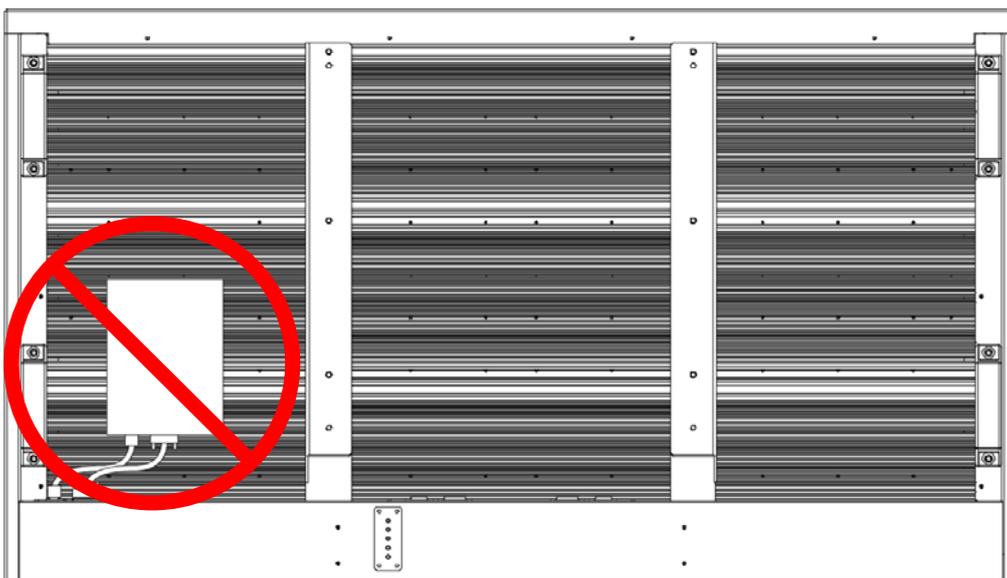
## Fan Cooled Models

If mounting a media player to the rear of the display, do not obstruct any of the fans or air vents to allow for proper air ventilation. Failure to do so could damage the LCD and/or media player.



## Fanless Models

If mounting a media player to the rear of the display, be sure to leave a gap between the heat sink and the player device to allow for proper air ventilation. Failure to do so could damage the LCD and/or media player.



# Contact Us

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Have additional questions regarding your installation? Contact our support team below.

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