Method:

FP15D-35 antifreeze valve can accurately sense the ambient temperature and water temperature, intelligently drain circuit medium-water near 4 °C without electricity power and manual interaction.

Application

Working with monoblock heat pump, the antifreeze valve can automatically judge the operation state of the system. When the system is shut down or power off unexpectedly,the antifreeze mode can be opened in time:when the water temperature drops to 3°C, the valve will drain to prevent system freezing.

With the decrease of water temperature, the antifreeze valve can automatically increase the drainage speed, effectively balance the heat lost in the system. The valve will be automatically closed when the water temperature rises to 4 °C.



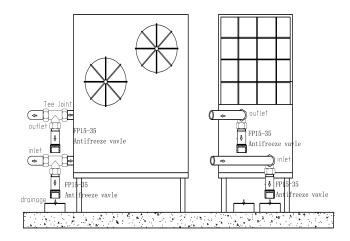
Inspection and maintenance of antifreeze valve:

Before winter, in order to ensure the normal operation of the antifreeze valve, a simple test can be carried out: *Immerse the antifreeze valve in the ice water mixture, the antifreeze valve will open automatically after a few minutes; After removing the ice water mixture, the antifreeze valve gradually closes. This indicates that the antifreeze valve is working properly.

The Installation of Antifreeze Valve

- 1) The antifreeze valve shall be installed vertically downward at the inlet and outlet pipes of the outdoor heat exchanger of the heat pump (as shown in the figure).
- 2) The antifreeze valve shall be installed at the position that can sense the lowest temperature of the system, and shall not be installed near the heat source which could interfere with proper function.
- 3) In order to reduce the water discharge by antifreeze valve, the pipeline and antifreeze valve shall be same insulated.
- 4)Do not make any trap connections.
- 5) It is not recommended to connect the drainage pipeline behind the antifreeze valve. This may cause the failure of antifreeze due to freezing and blocking the drainage pipeline.

(Please read carefully before installing the antifreeze valves)



Specifications:

Mode I	Port Size	Body Material	Open/Close Temp (°C)	Maximum Temp (°C)	Maximum Pressure (MPa)	Flow Rate (Cv)	Dimensions (mm)	Net Weight (g)
FP15D - 35	Male/Female DN15 1/2"	Brass	1~4	+120	1. 0	1	Ф 30*69	130