



HEAT PUMP

Applicable Area : Facilities/Machinery

Application : Remote maintenance of heat pumps

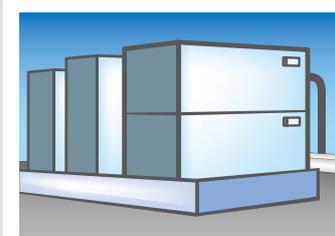
- A heat pump is a technology in which, using a small energy input, heat is collected from the air to allow use of a large amount of thermal energy. Heat pumps are employed for air conditioning in office buildings and other places as well as to supply hot water in hospitals and hotels. Their maintenance is essential.
- Many input signals, such as the operating status of pump and compressor, the CO2 emission, the hot water outlet temperature, and the values from various pressure sensors, are transmitted to the DL8 by using R3 Series remote I/O.
- In the event of device malfunction, a contact signal showing abnormality is input to the DL8, and an e-mail notification is sent to maintenance personnel at the manufacturer.



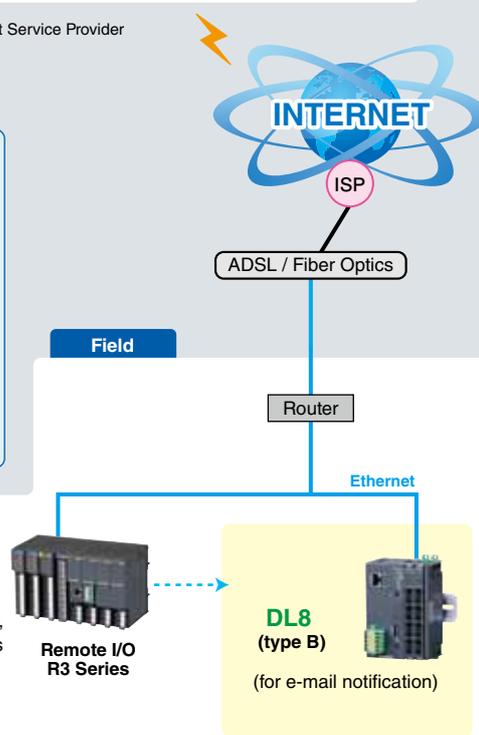
ISP: Internet Service Provider

What's the focus?

- As it uses the internet lines already installed by the customer, there are no running costs involved in the communication.
- From the pump operation signals, its operating times can be accumulated by the DL8 and recorded.
- Data for the pump operating time and hot water, etc., is saved on the SD card used with the DL8. By using this data, predicting the cause of abnormalities can be made, which leads to predictive maintenance rather than reactive maintenance.
- Heat pump malfunctions are immediately brought to the attention of maintenance personnel and quick repairs can be conducted.



Operating signals from the compressor, hot water tank level low, hot water outlet temperature, various pressure sensors, amount of CO2 discharge etc.



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