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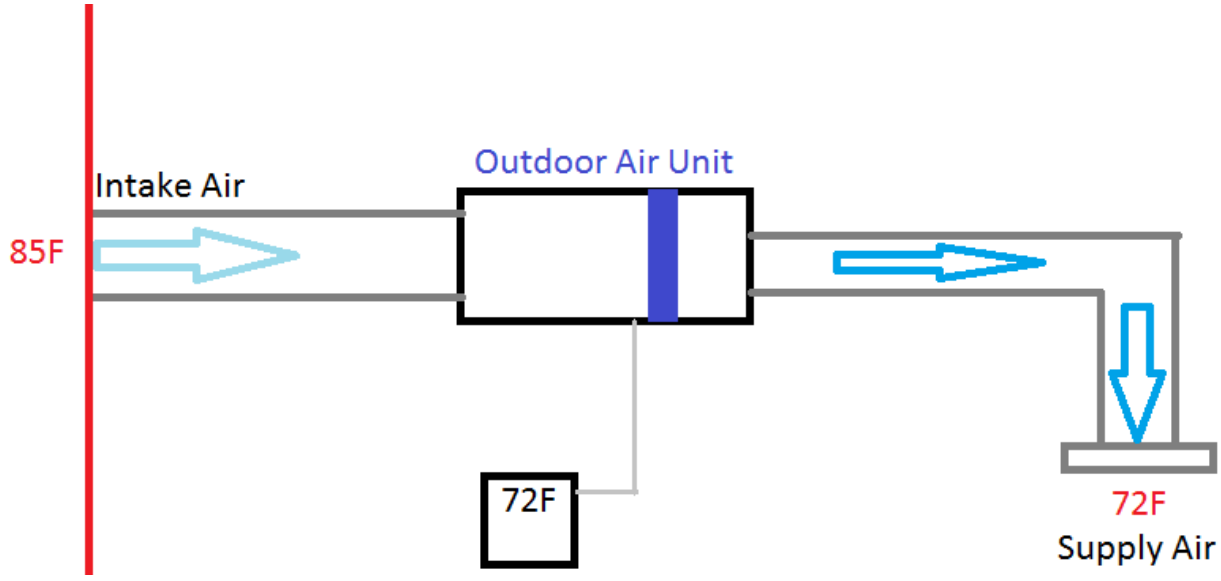
Service BULLETIN

S031 **February 2019**

Operation of the Dedicated Outdoor Air Unit

The DOAS (Dedicated Outdoor Air System) is designed to introduce fresh air from outside to the conditioned space. This must be used in conjunction with a VRF condenser and applicable indoor unit(s). Its primary purpose is to maintain a supply air temperature identical to the set temperature. This is achieved by tempering outside air through the DOAS so that it can be supplied to the room at a fixed temperature. Fresh air passes through the coil of the outdoor air unit and is either cooled or heated depending on the temperature of the refrigerant running through the coil. The example shown below illustrates how the DOAS is designed to function.



In the Example, the outdoor air temperature is 85 degrees coming into the system and the wired remote is set for 72 degrees. The condenser runs and supplies cooled refrigerant to the evaporator coil to temper the intake air down to 72 degrees. The system is designed to run at all times, so it may overshoot a desired temperature in some situations.

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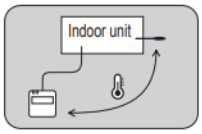
For situations in which the set temperature is overshot, there are countermeasures that can take place to alleviate this issue.

1. Set up the wired remote to sense temperature as the return using the thermo sensor feature. *Note: (Only the UTY-RNKU can be used with the DOAS) Instructions for setup of the thermo sensor are shown below.

The detection location of the room temperature can be selected from the following 2 methods. Choose the detection location that is best for the installation location.

The temperature sensor of the indoor unit or the remote controller can be used to detect the room temperature.

Press the "ECONOMY / THERMO SENSOR" button for 2 seconds or more to select the temperature sensor of the indoor unit or the remote controller.



NOTES

The remote controller sensor cannot be used if the indoor unit has no temperature setting function. When this function cannot be used, the lock display will flash when the "ECONOMY / THERMO SENSOR" button is pressed.

2. Dip switches also must be set for functionality of the DOAS. As illustrated below; the number 3 dip switch on Set 3 must be changed to the ON position. The factory setting is off.

SET3-3	Temperature control position
OFF	Outlet temperature control
ON	Inlet temperature control

These countermeasures will control the operation of the condenser, therefore eliminating the possibility of the conditioned space being overshot.