

model : DEI-767 Instruction

767 is widely suitable for the chiller system or direct expansion cooler and heater.

When using on chiller system, Auto operation is available as a normally used. It can switched change to cooling, heating or fan modes automatically.

When 767 is used in direct expansion cooler, it provides a fire alarm output relay. The fire alarm relay will be closed when the room temperature is over 50°C.

DIP Switch selections

SW1: Compressor delay protection.

ON = 3 mins delay protection ;

OFF = no 3 mins delay protection.

SW2: Select fan runs in low speed when the setpoint is reached.

ON = fan runs in low speed ; OFF = fan stops.

SW3: Select the wiring type. (For more details, please find the wiring diagram on the backside)

ON = one to one direct expansion air-conditioner or fan coil.

OFF= one to several direct expansion air-conditioners

SW4: Select the heating type.

ON = heating by electric ; OFF = heating by boiler.

Basic operation

Power: Press the Power button to turn on/off the power.

When the power is re-turned on, the controller will continue the last operation but excluding auto-on/off timer.

When the power is off, the room temp. and the timer will be displayed on the panel.

↕↗ : Adjust the temperature setpoint.

Night : Press the Night button to enter into the sleep process.

Why it is made?

Once set the night button in the cooling mode, the controller will raise the setpoint gradually while sleeping.

Mode : Press the Mode button to select four modes.

Auto : When the ⚙ is displayed, the controller will automatically change to cooling, heating or fan modes. (for more details, please find the below description)

Cool : When ❄ is displayed, the controller is in the cooling mode.

Heat : When 🔥 is displayed, the controller is in the heating mode.

Fan : When 🌀 is displayed, the controller is in the fan mode.

Fan : use to select 3 speeds of fan operation or auto-fan.

Swing : not used.

Timer : Use to adjust timer for auto-on or auto-off.

First power on

About 15 seconds after power on, the controller will probe the room temperature and automatically change to heating, cooling or fan mode.

How does the auto mode operate?

When the room temp. is from 23 °C to 27°C, the controller will automatically change to the cooling mode.

When the room temp. Is from 18°C to 22°C, the controller will automatically change to the heating mode.

Fire alarm (not available on chiller system)

When the room temperature is over 50°C, the fire alarm relay will close and the alarm starts warning.

Setting range

Control range in the cooling or the heating mode : 10°C~35°C

Reading range : 1°C~50°C

Auto-on timer : 1~24 Hours

Auto-off timer : 1~24 Hours

Error code

80°C : The cable between power box and the front panel is disconnected.

81°C : The sensor probe is failure.

82°C : 82°C will be displayed when the room temp. Is over 50°C.

Dimension

Front panel dimension: 97mm(L) × 112mm(W)

Power box dimension: 98mm(L) × 138mm(W)

LCD view area : 48.5mm(L) × 29mm(W)

Operating temp. : 1°C~50°C

Storage temp. : 1°C~60°C

Humidity : 30% to 85% (non-condensing)

Inputs / Outputs

Power supply : AC110V/220V ± 10% single phase 50/60Hz

Power consumption : Max. 10W (controller only)

Relay outputs : 7A/250VAC

Special functions upon request

1. The controller power on once power supplies.

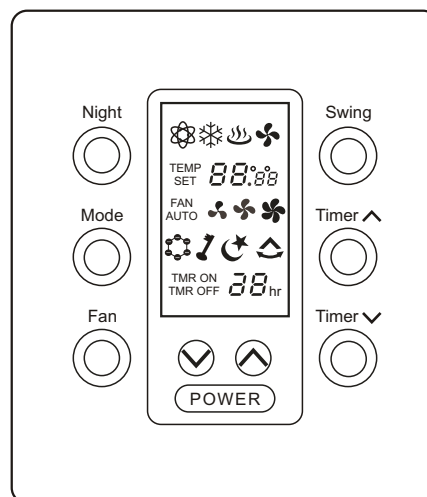
2. Turn on the controller by room key (used in hotel room)

When the room key is pushed in, the controller will be turned on.

When the room key is pulled out, the controller will be turned off.

3. Auto-on when the front panel is in power off position.

The controller will automatically be turned on and change to heating when the controller probes the room temp. is lower then 17°C and will be truned off when the room temp. reach to 20°C. The controller will automatically be turned on and change to the cooling mode, when the controller probes the room temperature is higher then 28°C and will be truned off when the room temperature down to 25°C.



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CAUTION

1. Please install the front panel in a ventilative room and keep it 1.2~1.5m above the ground.
2. Avoid installing the unit near other electric equipments.
3. Avoid installing the unit near fan outlet or under sunshine
4. Please fasten the screw to avoid short-circuited.
5. Before supplying the power, please check if the voltage switch is switched correctly.
6. One power box connects one panel only.

model : DEI-767 wiring diagram

WIRING FOR COOLING SYSTEM ONLY

Figure 1: one to one direct expansion cooler

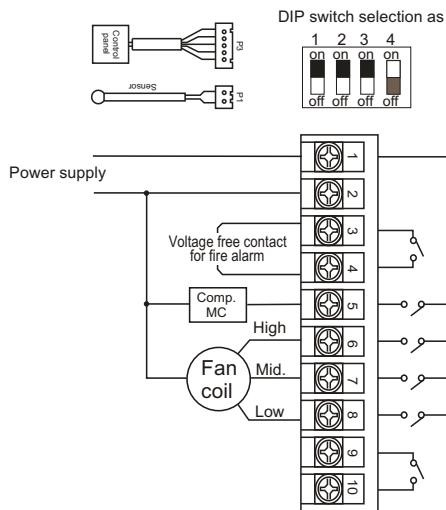
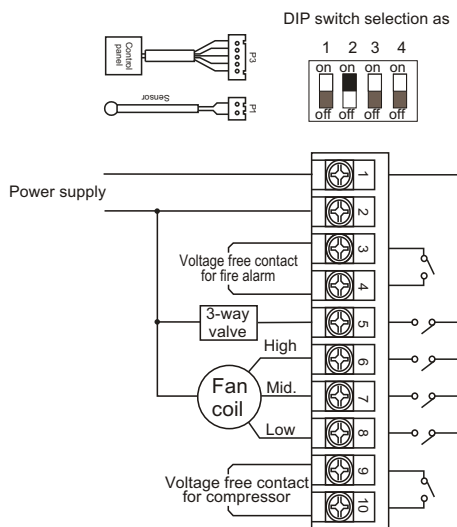
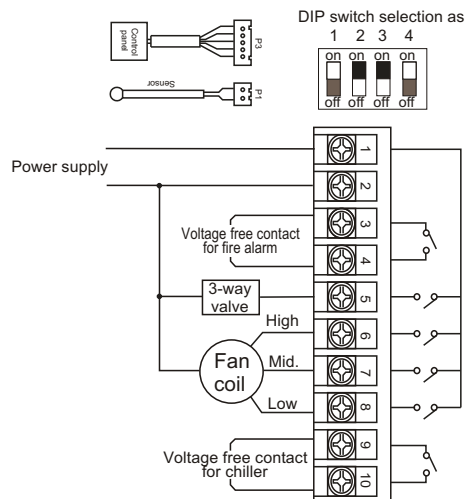


Figure 2: one to several direct expansion cooler with 3-way valve



Note: compressor has to be installed with a 3 minutes delay protect timer in this situation.

Figure 3: chiller system with 3-way valve



If 3-way not installed please change DIP switch as OFF OFF ON OFF

WIRING FOR COOLING AND HEATING SYSTEM

Figure 4: one to one direct expansion cooler and heater with 4-way valve and compressor magnetic switch

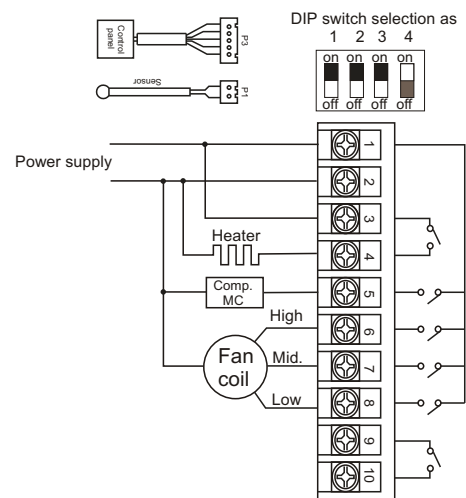
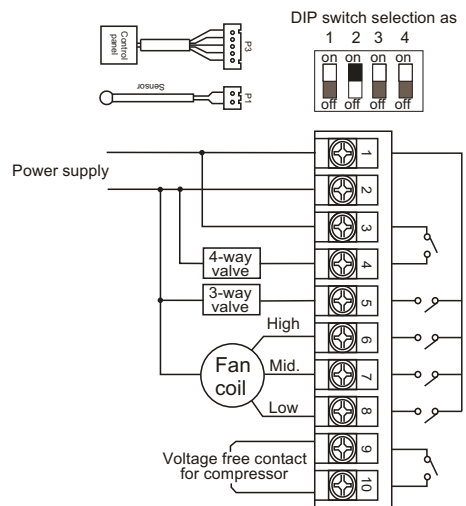


Figure 5: one to several direct expansion cooler and heater with 3-way valve and 4-way valve



Note: compressor has to be installed with a 3 minutes delay protect timer in this situation.

Figure 6: chiller and hot water boiler system with 3-way valve and 4-way valve

