# MITSUBISHI ELECTRIC

## Heat Pumps

# PAC Zone Controller

*PAC-ZC40~80*

The PAC Zone Controller brings to fruition expanded functionality and interaction to realise even greater energy savings. With the ability to control up to 8 zones*, and equipped with Intuitive Airflow Control and three built in sensor functions (temperature, occupancy, brightness), the PAC Zone Controller brings intuitive, yet simple control to a whole new level.

## Backlit LCD Touch Screen

The PAC Zone Controller comes standard with a PAR-ZC01M-E Wired Wall Controller, featuring a full dot liquid crystal display (LCD), backlit touch screen, and simple menus for easy operation. For ease of use the user defined coloured LED indicator (at the bottom of the controller) lights up to indicate the current operation mode i.e. Red for Heating, Blue for Cooling, Green for Night Setback.

## Occupancy Sensor

Incorporating a built in occupancy sensor, the PAC Zone Controller (via the PAR-ZC01M-E wall controller) constantly monitors the usable area to detect vacancy. Once detected, internal functions can implement one of 4 user defined energy-save control options to reduce energy consumption; turn the unit on/off, lower the fan speed, temperature offset, or turn user designated zones on/off.

## Brightness Sensor

Working in conjunction with the Occupancy Sensor, the Brightness Sensor can be set to maximise energy savings when it detects user defined "Light" or "Dark" conditions (lux values).

## Auto Return

This function helps to maintain the indoor temperature at the required level. Even if the temperature setting is changed during operation, the set temperature automatically returns to the originally preset temperature after a certain amount of time. It is possible to set the required temperature for a limited time (10-120 min. in 10-minute increments).

## Compatibility

The PAC Zone Controller is compatible with the PEA and PEAD range of Ducted systems.

## Intuitive Airflow Control

Where traditional ducted systems require manual adjustment of the indoor fan speed, all PAC Zone Controllers are equipped with Mitsubishi Electric's exclusive Intuitive Airflow Control, allowing them to intuitively detect which zones you have open/closed and adjust the fan speed accordingly. When zones are not in use the fan speed is lowered automatically, leading to increased overall energy savings.

## Temperature Sensor

Sensing the return air of the indoor ducted unit is not always ideal. With an inbuilt thermostat (PAR-ZC01M-E wall controller) the PAC Zone Controller allows the actual usable space temperature to be measured, offering a more realistic and timely temperature measurement where it is needed most.

## Optional Wi-Fi Control

Advanced temperature monitoring and management with the addition of the award winning Mitsubishi Electric Wi-Fi Control. Now you can control, monitor and schedule which zones your ducted heat pump is controlling in real time from anywhere via your smart phone, tablet or online account.

## Weekly Timer

The PAR-ZC01M-E Wired Wall Controller allows you to set up to 8 temperature and airflow patterns per day for seven days, allowing you to control your energy consumption. It is also possible to schedule operation for individual zones. Perfect for the busy home, office or retail store.

*PAC-ZC80 only. PAC-ZC40 only allows control of 4 zones. Compatible with either 24V or 240V damper options. Optional: 1x additional PAR-ZC01ME-E controller and 2x thermistors (PAC-SE41TS-E) can be installed.

* With 24V option requires an addional 24V transformer.

## Night Setback

To prevent indoor dew or excessive temperature fluctuations, the PAR-ZC01M-E can be set to start heating/cooling operation when the room temperature drops below or above preset temperature limits.

*Temperature range and night setback mode availability depends on heat pump model. Please confirm mode availability where this feature is critical to design.

## Temperature Range Restriction

Via the PAR-ZC01M-E, you can limit the maximum and minimum temperature settings preventing overheating or overcooling. This controller also comes with an operation lock.

## PAC Zone Controller Technical Specifications

| Air Conditioning Control Function | | |
|---|---|---|
| On/Off | | ✓ |
| Operation Mode | Cool | ✓ |
| | Heat | ✓ |
| | Dry | ✓ |
| | Fan | ✓ |
| | Auto | ✓ |
| Fan speed setting | | ✓ |
| Zone Control (Zone On/Off) | | ✓ |
| Room temp. setting | | ✓ |
| Room temp. range limiting | | ✓ |
| Set temp. auto return (10-120 minutes) | | ✓ |
| Night Setback (Min/Max temp setting) | | ✓ |
| Clean Filter Timer | | ✓ |
| Brightness Sensor | | ✓ |
| Temperature Sensor | | ✓ |
| Occupancy Sensor | | ✓ |
| Intuitive Airflow Control | | ✓ |
| Lossnay Interlock | | ✓ |
| Energy Saving | Offset the set temperature | ✓ |
| | Lower fan speed | ✓ |
| | Turn off unit | ✓ |
| | Turn off zones | ✓ |
| **Display** | | |
| Zones | | ✓ |
| Time | | ✓ |
| Day of the week | | ✓ |
| Room temp | | ✓ |
| Backlight | | ✓ |
| Touch Panel | | ✓ |
| LED Coloured Indicator | | ✓ |
| Filter sign | | ✓ |
| Error code | | ✓ |
| Lock Operations (On/Off, Operation Mode, Set Temp., Zones) | | ✓ |
| **Timer** | | |
| Weekly Schedule Timer | On/Off, Temp, Mode, Time, Zones | 8 settings x 7 days. Can apply to all zones or any combination |
| On/Off Timer (5 min increments) | | ✓ |
| Auto Off Timer (30 min increments, up to 24 hours) | | ✓ |
| Zone On/Off Timer (5 min increments) | | ✓ |
| Automatic Daylight Savings Time Adjustment | | ✓ |

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**CANSTAR BLUE INNOVATION EXCELLENCE 2014 Wi-Fi Control**

**Mitsubishi Electric Quality**

### 5 Year Warranty

The Mitsubishi Electric Heat Pumps listed in this table come with a full 5 year parts, labour, and compressor warranty. Warranty conditions apply.

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For more information on Mitsubishi Electric Heat Pumps, please call our customer service team on **0800 784 382** or visit **www.mitsubishi-electric.co.nz**