# Submittal Data: PAC-US446CN-1

MITSUBISHI ELECTRIC
Heating and Cooling

| | | | |
|---|---|---|---|
| Job Name: | | Location: | |
| Purchaser: | | Submitted By: | |
| Submitted To: | | Engineer: | |
| Date: | | Application: | |

☐ Reference ☐ Approval ☐ Construction

Reference Image

## SPECIFICATIONS:

- Allows users to control Mitsubishi Electric indoor units with a third-party thermostat
- Thermostats tested:
  - ecobee®
  - Honeywell®
  - Nest®*1
  - Lyric®
  - INNCOM® (with fan speed control)
- Dimensions: (H x W x D) 3.96 in x 3.17 in x 0.93 in
- Terminal Block: 20–30 VAC Rated
- Indoor unit modes: Cool, Heat, Fan, and Off
- Provides 3 input terminals to control fan speed:
  - G1 (High)
  - G2 (Medium)
  - G3 (Low)
- Limited to one Thermostat Interface per indoor unit
- Connects to CN105
- Refer to manuals for more details

## ACCESSORIES:

- Transformer (VPL24-210)

## REQUIREMENTS:

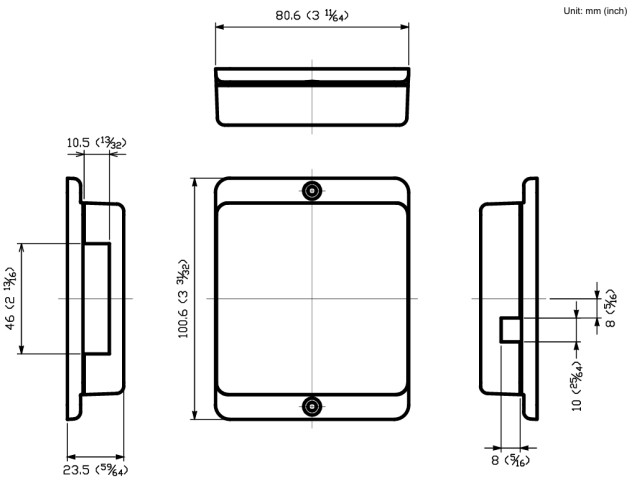
- Compatible Mitsubishi Electric indoor unit
  - Reference to Installation for controls compatibility chart
- 24VAC thermostat or I/O Controller (field supplied)
- 24VAC circuit for HVAC Thermostat (field supplied)

## ADVANCED FEATURES:

- Thermo-OFF time delay
  - Stay in heat or cool mode for 2 hours once W or Y is no longer active (default)
  - Turn off the unit or go into fan mode immediately when set point is met
- Fan speed setting for when setpoint is met in cooling or heating
  - OFF (default)
  - Extra low
- Fan Speed
  - Custom Auto (default, more comfortable than Auto)
  - Medium
  - High
  - Auto (more efficient than Custom Auto)
- Two-stage thermostat operation
  - W1/Y1: Capacity is adjusted automatically based on room (default)
  - W2/Y2: Full capacity
- Adjustable static pressure settings
- Enable CN24 backup heat operation during defrost
- Auto recovery after power failure

NOTES:
*1 Non-learning Nest thermostats require installation of 2.2k mW resistors between terminals Tc-Y1 and C-W1 on the PAC-US446CN-1

| TI terminal | Description |
|---|---|
| TC | C: common (in) |
| C | C: common (out) |
| TR | R: 24 VAC (in) |
| R | R: 24 VAC (out) |
| G3 | High fan speed |
| G2 | Medium fan speed |
| G1 | Low fan speed |
| Y2 | Stage 2 cooling |
| Y1 | Stage 1 cooling |
| W2 | Stage 2 heating |
| W1 | Stage 1 heating |
| G | Fan mode |




- All electrical work shall comply with National (CEC) and local codes and regulations.
- Configure the thermostat for use with a conventional system. Do not configure for heat pump or any variation using O/B signals.