# Submittal Data: AE-C400A

**MITSUBISHI ELECTRIC**
Heating and Cooling

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

☐ Reference ☐ Approval ☐ Construction
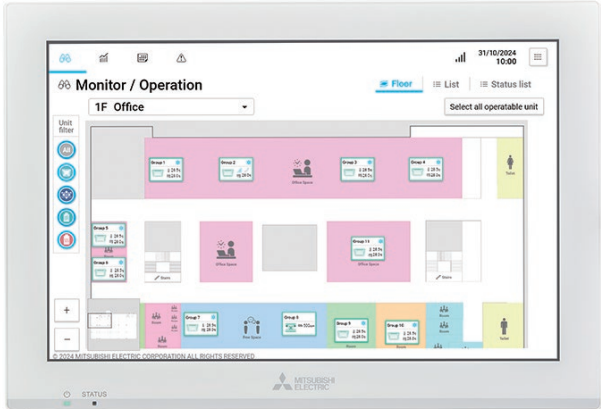


| Item | | Specifications |
|---|---|---|
| Power supply | Rating | 100-240 VAC ±10%, 50/60 Hz, single phase |
| Power consumption | | 22W |
| LAN1, LAN2 | | 100BASE-TX |
| RS-485 | | For connecting a watt-hour meter (Modbus-RTU) |
| External input/output | Input | Photocoupler input (4 inputs x 2) |
| | Output | Transistor output (2 outputs x 2) (sink type) |
| Ambient conditions | Operating temperature range | 0°C to +40°C (+32°F to +104°F) |
| | Storage temperature range | -20°C to +60°C (-4°F to +140°F) |
| | Humidity | 30% to 90% RH (non-condensing) |
| Exterior | | PC+ABS-GF10 (Munsell 1.0Y 9.2/0.2) |
| External dimensions | W x H x D | 306 x 211 x 71.8 mm (12-1/16 x 8-5/16 x 2-27/32 in) |
| | | When embedded, the controller protrudes from the wall or the metal control box by 19.7 mm (25/32 in). |
| Weight | | 2.9 kg (7 lbs) |
| Installation conditions | | Indoor only |
| | | * This controller is for use in an indoor or equivalent environment. |

## Optional Software with Pin Code
- AE-C400-PCS
  Proposal Charge Function
- AE-C400-PW
  Personal Web Function
- AE-C400-PLC
  PLC General Equipment Function
- AE-C400-BACNET
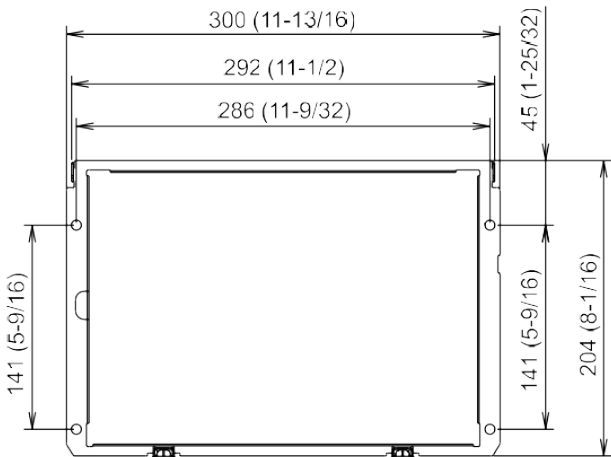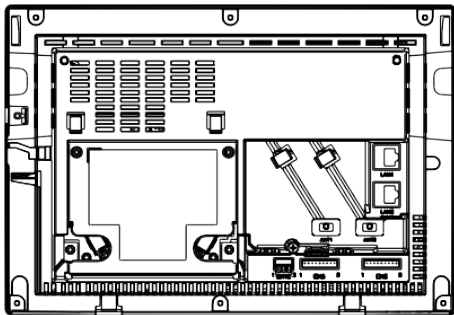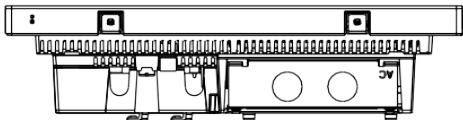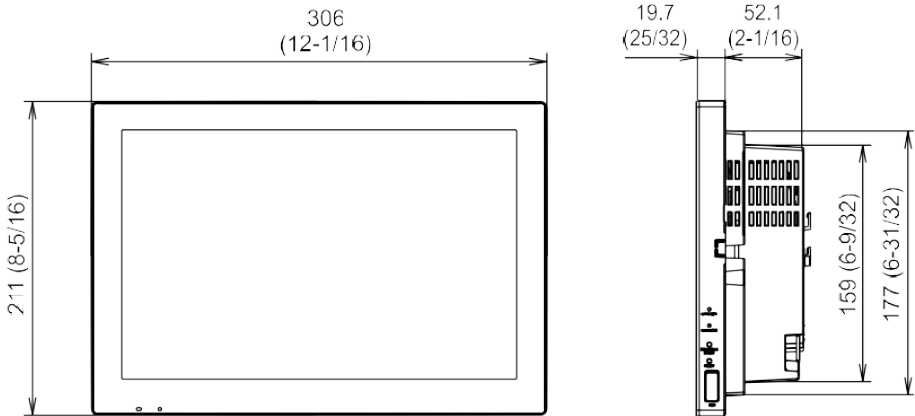  BACnet Interface Function

## Option Parts
- PAC-YK95UTB
  Electrical Box
- PAC-YK92TB
  Mounting attachment
- PAC-YK96TK
  Mounting kit for control panel
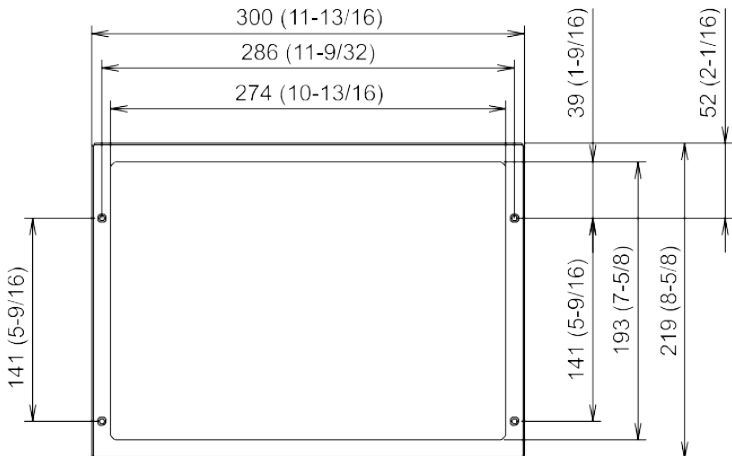- PAC-YK91RF
  Replacement attachment

- **For detailed functions, refer to the technical manuals.**
- The centralized controller of AE-C400A combines Web function, which enable the system management on a PC browser screen[1]
  *1 Operating system requirement: Microsoft® Windows 11® (64bit), Microsoft® Windows 10® (64bit), Macos®*
  *Browser requirement: Microsoft® Edge®, Google Chrome™, Safari®*
- Together with PI controller, DIDO controller, or Modbus[2], many optional functions like "Peak-cut", "Energy saving", "General equipment management", "Scheduling" etc, can be carried out
  Refer to section of PI and/or DIDO controller for details on these controllers
  *2 For connectable unit models, refer to the Instruction Book (Detailed Operations) for AE-C400A/EW-C50A*
- One AE-C400A can control up to 50 units (including LOSSNAY). Up to 400 units (including LOSSNAY) can be controlled from one AE-C400A connected with seven AE-C400A/EW-C50A units.
  *The maximum number of connectable units depends on the model. Refer to the Technical Manual*
- AE-C400A's Web functions, alarming E-mail containing address and error code can be sent to appointed E-mail address
- The interlock-control option enables interlocked operations of air conditioning unit groups and the general equipment groups, based on the changes of status in the ON/OFF, Mode, or Error signals. (Can be set from the Initial Setting Tool only)
- $CO_2$ level can be indicated on AE-C400A's LCD by connecting $CO_2$ sensor to LOSSNAY
- CITY MULTI is compatible with large-scale BMS management via BACnet®.
  BACnet® is an open transmission protocol widely used at BMS, and related equipment control.
- CITY MULTI can easily combine into a Building Management System (BMS) via EW-C50A/ AE-C400A
- BACS-AP50E can control up to 50 units/groups (including LOSSNAY).
  *To use the BACnet® function on EW-C50A/ AE-C400A, BACnet® license registration is required.

**Note: EW-C50A/AE-C400A and BACS-AP50E cannot be used together.**

Unit: mm (in)

306
(12-1/16)

211 (8-5/16)

19.7
(25/32)

52.1
(2-1/16)

159 (6-9/32)

177 (6-31/32)

300 (11-13/16)

292 (11-1/2)

286 (11-9/32)

45 (1-25/32)

141 (5-9/16)

141 (5-9/16)

204 (8-1/16)

Front frame

300 (11-13/16)

286 (11-9/32)

274 (10-13/16)

39 (1-9/16)

52 (2-1/16)

141 (5-9/16)

141 (5-9/16)

193 (7-5/8)

219 (8-5/8)

Rear frame