Job Name:

Schedule Reference: | **Date:**

EW-50A

- EW-50A Central Controller and Expansion Controller.
- Works both as a stand alone central controller or network up to three EW-50A expansion controllers with one AE-200A. Annual and Weekly Scheduling, Sending Error Email, Online
- Maintenance Tool, Interlock Control and Data Monitoring.

OPTIONAL SOFTWARE (Pin Code Purchase Required*)

- EW-50-PCS - Proportion Charging Function: Tenant Billing

- EW-50-PW - Personal Web Function

- EW-50-PLC - PLC General Equipment Function

- EW-50-BACNET - BACnet Interface Function

*Pin Codes must be purchased separately for EW-50A in any configuration.

EW-50E CENTRALIZED AND EXPANSION CONTROLLER SPECIFICATIONS

- Manages up to 50 indoor units individually, in a group or in a collective batch operation
- Networked three EW-50A to one AE-200A to allow AE-200A to manage up to 200 indoor units.
- Supports dual set point functionality (connected model dependent)
- Displays:
  - CITY MULTI® compressor speed and hi/low pressure
  - Advanced HVAC Controller (DC-A2IO) input/output status
  - Indoor unit free contact input/output status
  - Space Temperature and Humidity (from Smart ME or AI controller)
  - Error code
  - Unoccupied setback up temperature range
- Functions
  - Hold function (temporarily disables schedules indoor unit model dependent)
  - Initial setting
  - Operation data back-up

- Permits or prohibits remote controller functions:
  - On/Off
  - Change Operation Mode
  - Change Set point Temperature
  - Filter Status
  - Change Fan Speed
  - Change Air Direction
- External input/output signals can be used for batch operations such as Start/Stop and Emergency Stop (Requires PAC-YG10HA)
- Pulse signal input can obtain watt-hour meter, billing data and energy management data based on the cumulative number of pulse signal pulse signals directly input from a metering device.
- Temperature set point range limits can be set for local remote controllers
- User defined indoor unit functions:
  - On/Off
  - Monitoring and Operation
  - Operation mode:
    - Auto* (Dual or Single set point)
    - Heat
    - Fan
    - Drying
    - Setback*
      Note: *R2 Series only (connected equipment dependent)
  - Temperature Setting
  - Fan Speed
  - Airflow Direction
- Monitoring and Control:
  - CITY MULTI® indoor units
  - M & P Series units (Requires M-Net adapter)
  - Lossnay units
  - PWFY hydronic heat pump units
  - DIDO controllers
  - CITY MULTI® DOAS
  - Interlock setting enables integration of general equipment inputs/outputs and indoor units
- Scheduling
  - Daily
  - Annually
  - Five pattern weekly seasonal schedule
- Twenty four scheduled events per day, indoor unit model dependent:
  - ON/OFF
  - Mode
  - Temperature Setting
  - Vane Direction
  - Fan
  - Speed
  - Operation Prohibits
- Trend data:
  - Fan operation time
  - Thermo-on time
  - Set temperature
  - Room temperature
  - AI Controller temperature and humidity (Requires PAC-YG63 MCA, 2 inputs total for each controller)
- Memory back up via USB (universal serial bus)
- Memory back up via LAN (Local Area Network) port

Specifications are subject to change without notice.

EW-50E Expansion Controller

Item		Specifications
Power Supply[*]	Rated input	100–240 VAC ± 10%; 50/60 Hz Single-phase
M-NET power feeding coefficient		1.5
Ambient conditions	Temperature	Operating Range: -10°C – +55°C (+14°F – +131°F)
		Non-operating Range: -20°C – +60°C (-4°F – +140°F)
	Humidity	30-90% RH (No condensation)
Weight		1.7 kg (4 lbs)
Dimensions (W x H x D)		172 × 209 × 92 mm (6-13/16 × 8-4/16 × 3-10/16 in) **253 × 172 × 92 mm (10 × 6-13/16 × 3-10/16 in) when using L-fittings
Installation conditions		Only in a metal control box indoors

Note: Requires separate PAC-SC51KUA (Power Supply Unit) in certain applications/configurations.
Please refer to the Installation Manual for more information.

Web Browser Requirements

Item		Requirements
CPU		1 GHz or faster
Memory		512 MB or more
Screen Resolution		1366 x 768 or higher recommended
Compatible Browser	**Windows®**	Microsoft® Internet Explorer 8.0 Microsoft® Internet Explorer 9.0 Microsoft® Internet Explorer 10.0 Microsoft® Internet Explorer 11.0 **Java execution environment is required. (Verified to run on Oracle® Java Plug-in Ver. 1.8.0_25) **Install Oracle® Java Plug-in that is appropriate for your operating system. When using a 64-bit OS, install a 32-bit and a 64-bit Java Plug-in. **The version of the Oracle® Java Plug-in can be verified by clicking [Java] in the Control Panel.
Onboard LAN Port or LAN Card		100 BASE-TX
100 BASE-TX		e.g., mouse

Notes:

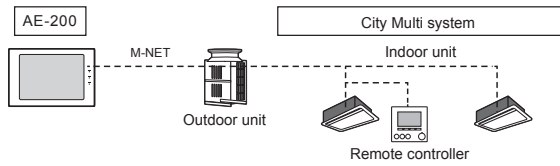Specifications are subject to change without notice.

*AE-200A is indicated as AE-200
*AE-50A is indicated as AE-50
*EW-50A is indicated as EW-50

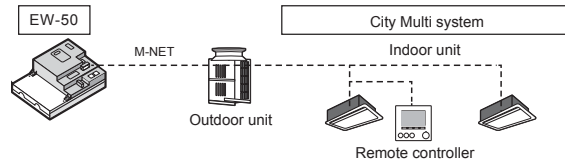## Controlling 50 or fewer units of equipment

1. AE-200

| AE-200 | M-NET | Outdoor unit | City Multi system — Indoor unit — Remote controller |

2. EW-50

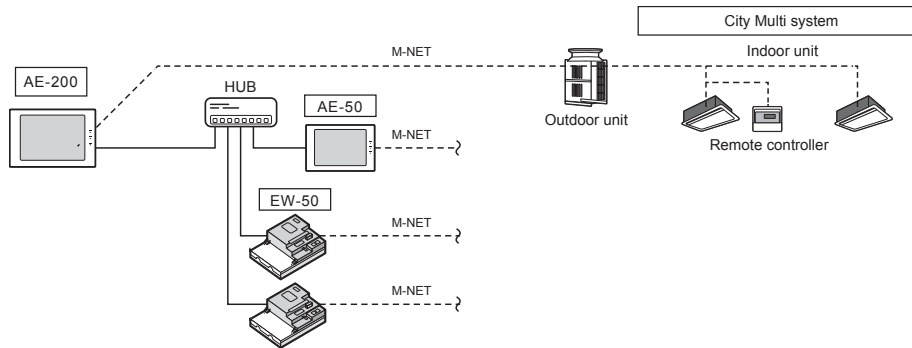| EW-50 | M-NET | Outdoor unit | City Multi system — Indoor unit — Remote controller |

Controlling more than 50 units of equipment (with connection to an AE-200 controller)

Controlling more than 50 units of equipment (with connection to   AE-200 controller)

Note
AE-200 is required when using AE-50.

AE-200 — HUB — AE-50 (M-NET), EW-50 (M-NET), (M-NET)
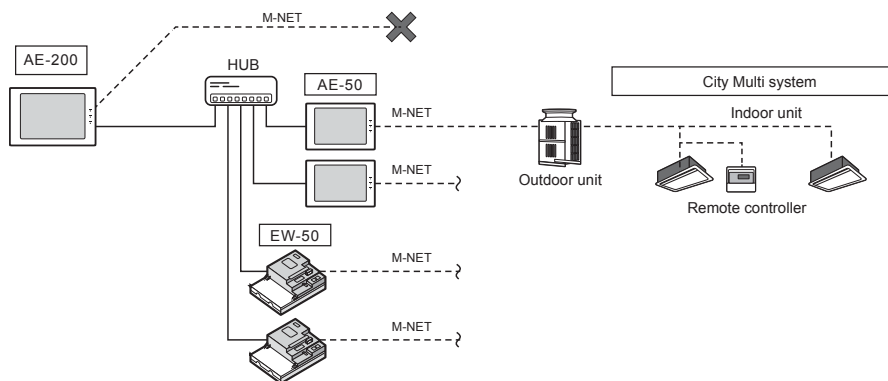M-NET — Outdoor unit — City Multi system — Indoor unit — Remote controller

When using an apportioned electricity billing function
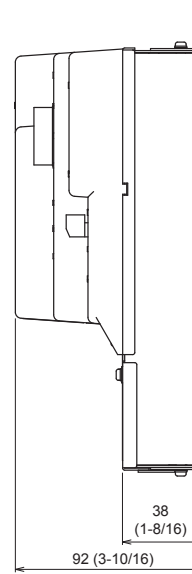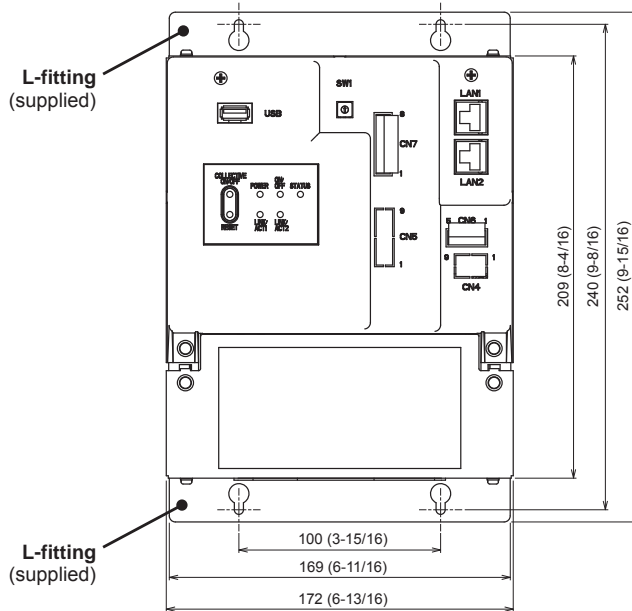
Note: AE-200 is required to use a billing function.
Note: AE-200 M-NET cannot be used when a billing function is used.
Note: "Charge" license is required to use a billing function.

AE-200 — HUB — AE-50 (M-NET ✕), AE-50 (M-NET), EW-50 (M-NET), (M-NET)
Outdoor unit — City Multi system — Indoor unit — Remote controller

Specifications are subject to change without notice.

(1) When using L-fittings

Unit: mm (in)

L-fitting
(supplied)

L-fitting
(supplied)

209 (8-4/16)
240 (9-8/16)
252 (9-15/16)

100 (3-15/16)
169 (6-11/16)
172 (6-13/16)

38 (1-8/16)
92 (3-10/16)

(2) When using DIN rail

150 (5-15/16)

46 (1-13/16)

23 (15/16)

DIN rail

DIN rail attachment
(supplied)

DIN rail auxiliary bracket
(supplied)

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