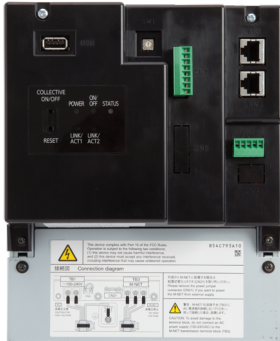


Job Name:

System Reference:

Date:

**TW-50A**

- TW-50A can be a Master Controller or Expansion Controller
- Master Controller can operate and monitor up to 50 indoor units
- Expansion Controller can expand an TE-200A to operate and monitor up to 50 additional indoor units through the touch screen or web browser
- Network up to three TW-50A to one TE-200A to allow the TE-200A to manage up to 200 indoor units.

**OPTIONAL LICENSES**

- LIC-BACnet Master or LIC-BACnet Expansion: BACnet Function
  - Connected air conditioning units can be monitored and operated not only from the existing web browser or the TE-200/TE-50's LCD, but also from the building management system using the BACnet® communication protocol. See LIC-BACnet Data Sheet for more information.
- LIC-ChargeExpansion: Energy Allocation
  - The apportioned electricity billing function is an electric energy apportionment system that apportions electric energy using input from electricity meters with a pulse generator function. The respective amounts of electric energy can be apportioned based on the operating status and capacity of each tenant. See LIC-Charge Data Sheet for more information.
- LIC-PWeb Master or LIC-PWeb Expansion: Online Personal Browser
  - Allows tenant managers and general users to control their respective zone conditions via a networked PC, tablet, or mobile phone with or without local remote controllers installed in the space. See LIC-PWeb Data Sheet for more information.

**SPECIFICATIONS**

- Supports dual set point functionality (connected equipment dependent)
- Displays:
  - CITY MULTI® compressor speed and hi/low pressure
  - AdvancedHVAC 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 (Error codes are able to be emailed automatically to specified recipients)
  - 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
  - Nv- and 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 of 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

# TW-50A - SPECIFICATIONS, CONT.

## TW-50A EXPANSION CONTROLLER

Item	Specifications		
Power Supply	Rated input	100–240 VAC ± 10%; 0.3–0.2 A 50/60 Hz Single-phase	
M-NET power feeding capability		1.5	
Ambient conditions	Temperature	Operating Range	-10°C to +55°C (+14°F to +131°F)
		Non-operating Range	-20°C to +60°C (-4°F to +140°F)
	Humidity	30% to 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		

## WEB BROWSER REQUIREMENTS

Item	Requirements	
PC	CPU	1 GHz or faster (2 GHz or faster recommended)
	Memory	2 GB or more
	Screen Resolution	1024 x 768 or higher recommended
	OS/Java® execution environment	<ul style="list-style-type: none"> <li>• Microsoft® Windows® 8.1</li> <li>• Microsoft® Windows® 10</li> <li>• Mac OS® X10.11 or later (Only CSV File Download Tool is not guaranteed to work.)</li> <li>* Java® execution environment (Oracle® Java or AdoptOpenJDK) is required. Verified to work properly on Oracle® Java8 (<a href="https://www.java.com/download/">https://www.java.com/download/</a>) and AdoptOpenJDK11 HotSpot (<a href="https://adoptopenjdk.net/">https://adoptopenjdk.net/</a>).</li> <li>* The version of the Oracle® Java can be verified by clicking [Java] in the Control Panel.</li> <li>* Install the Java® execution environment that is appropriate for your Air Conditioner Control Tool.</li> <li>When using a 64-bit Air-conditioner Control Tool, install 64-bit Oracle® Java or AdoptOpenJDK</li> </ul>
	Browser	<ul style="list-style-type: none"> <li>• Microsoft® Internet Explorer® 11</li> <li>• Microsoft® Edge®</li> <li>• Google Chrome™ Ver. 83</li> <li>• Safari® 13</li> </ul>
	Microsoft® Excel®	• Microsoft® Excel® 2010 or later

	Item	Requirements
Smartphone	Safari® 12	<ul style="list-style-type: none"> <li>• iPhone 6s (Plus) (iOS 10.1.1 or later)</li> <li>• iPhone 7 (Plus) (iOS 10.1.1 or later)</li> <li>• iPhone SE (iOS 10.1.1 or later)</li> <li>• iPhone XR (iOS 12.1.1 or later)</li> </ul>
	Google Chrome™ Ver. 83	<ul style="list-style-type: none"> <li>• Galaxy SC-04J (Android™ 8.0.0)</li> <li>• HUAWEI P9 (Android™ 6.0 or later)</li> <li>• Xperia Z5 (Android™ 6.0 or later)</li> </ul>
Tablet	Safari® 13	<ul style="list-style-type: none"> <li>• iPad Air 2 (iOS 12.2.2 or later)</li> <li>• 9.7-inch iPad Pro (iOS 10.1.1 or later)</li> </ul>
	Google Chrome™ Ver. 83	• MediaPad T2 7.0 Pro (Android™ 5.1.1)

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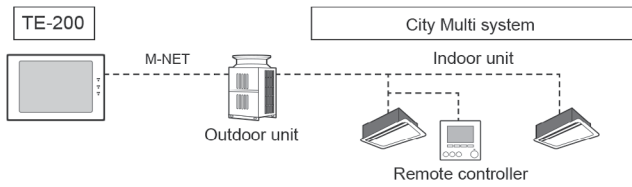
Note: Company name or product name that is described in this manual may be a trademark or a registered trademark of each company

# MODEL: TW-50A - SYSTEM CONFIGURATION

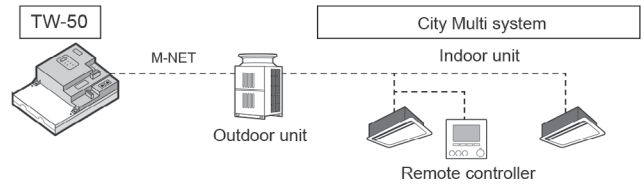
## CONTROLLING 50 OR FEWER UNITS OF EQUIPMENT

\*TE-200A is indicated as TE-200  
\*TE-50A is indicated as TE-50

1. TE-200



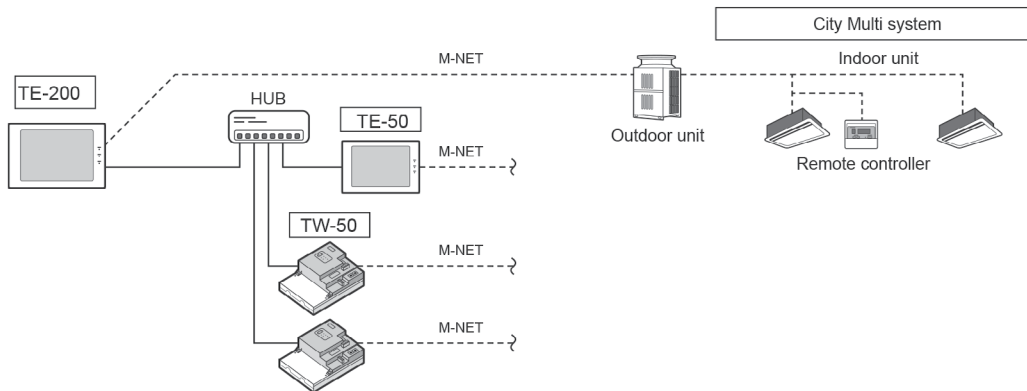
2. TW-50



## CONTROLLING MORE THAN 50 UNITS OF EQUIPMENT (WITH CONNECTION TO AN TE-200 CONTROLLER)

Note

TE-200 is required when using TE-50



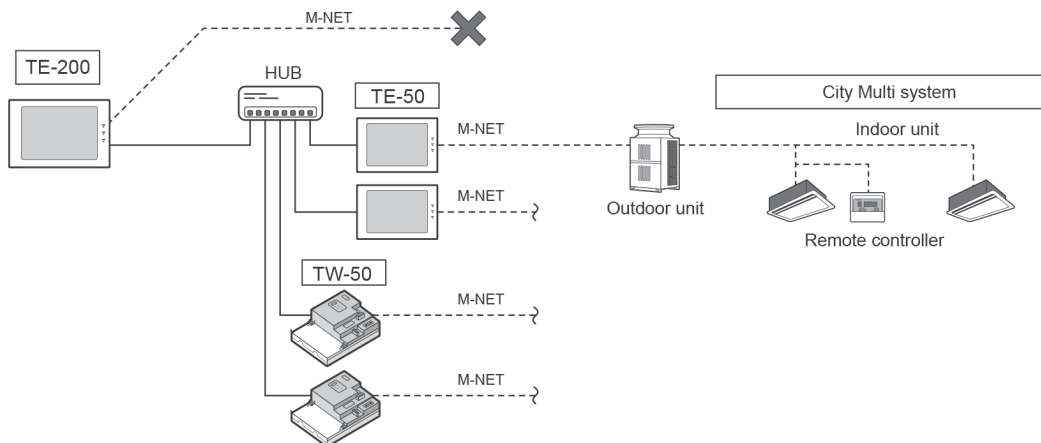
## WHEN USING AN APPORTIONED ELECTRICITY BILLING FUNCTION

Notes

TE-200 is required to use a billing function.

TE-200 M-NET cannot be used when a billing function is used

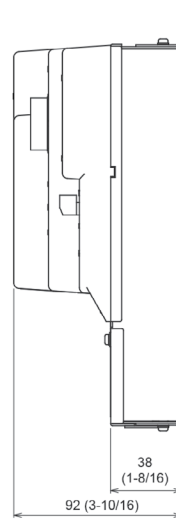
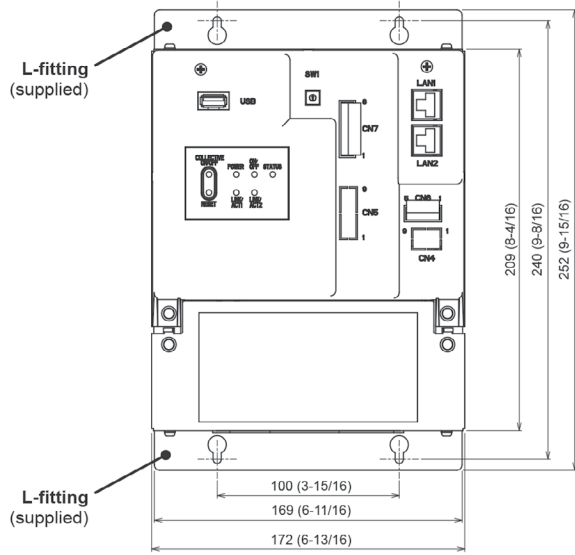
\*"Charge" license is required to use a billing function.



# TW-50A - DIMENSIONS

## (1) WHEN USING L-FITTINGS

Unit: mm (in)



## (2) WHEN USING DIN RAIL

