

## DVM Heat Pump Chiller Module Controller

Job Name \_\_\_\_\_  
 Purchaser \_\_\_\_\_  
 Submitted to \_\_\_\_\_  
 Unit Designation \_\_\_\_\_

Location \_\_\_\_\_  
 Engineer \_\_\_\_\_  
 Reference \_\_\_\_\_ Approval \_\_\_\_\_ Construction \_\_\_\_\_  
 Schedule # \_\_\_\_\_

### Features

- DVM Chiller controller
- Can monitor and control up to 16 DVM Chiller units
- Backlight
- 12 or 24 hour clock

### Control Options

- Operation ON/OFF
- Mode selection: cool, heat, cool storage, hot water
- Operation pattern selection: standard, rotation, efficiency
- Enable/disable Water Law (adjustable temperature settings of Water Law) <sup>1</sup>
- Enable/disable quiet mode (default mode and quiet mode levels 1-3 are selected during system commissioning) <sup>1</sup>
- Enable/disable forced fan mode
- Enable/disable demand function
- Demand/maximum current control of module chiller(s): limit current 50% - 100% of design current <sup>1</sup>
- Set master/slave units

### Timer Function for Scheduling

- Seven day scheduling
- Specify day, time, system operation mode, group or module, power ON/OFF, water outlet temperature, and operation pattern.
- Holiday setting to exclude the specified day from a programmed schedule.

### System Data Viewing

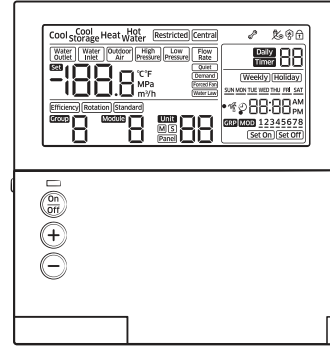
- Water outlet temperature
- Water inlet temperature
- Outdoor air temperature
- Water flow rate <sup>2</sup>

### NOTE

For full list of control and monitoring options, please refer to the DVM Controls Technical Data Book.

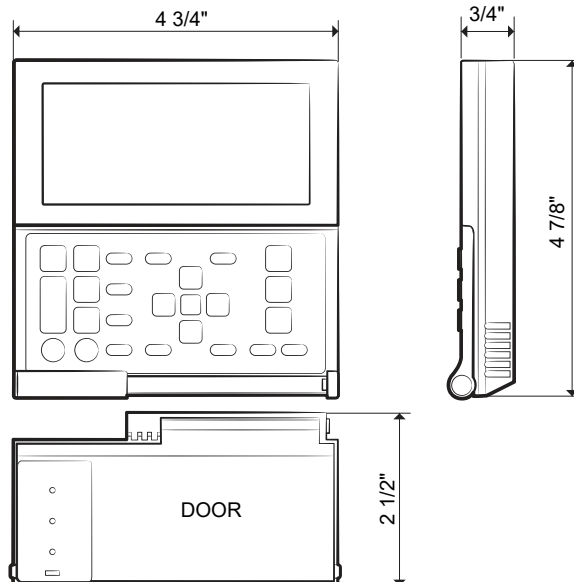
<sup>1</sup> The setting value is adjustable in MCM-A00UN service mode

<sup>2</sup> Water flow rate may differ from the actual value up to more than 10 %. Use the flow monitoring data for only reference only.

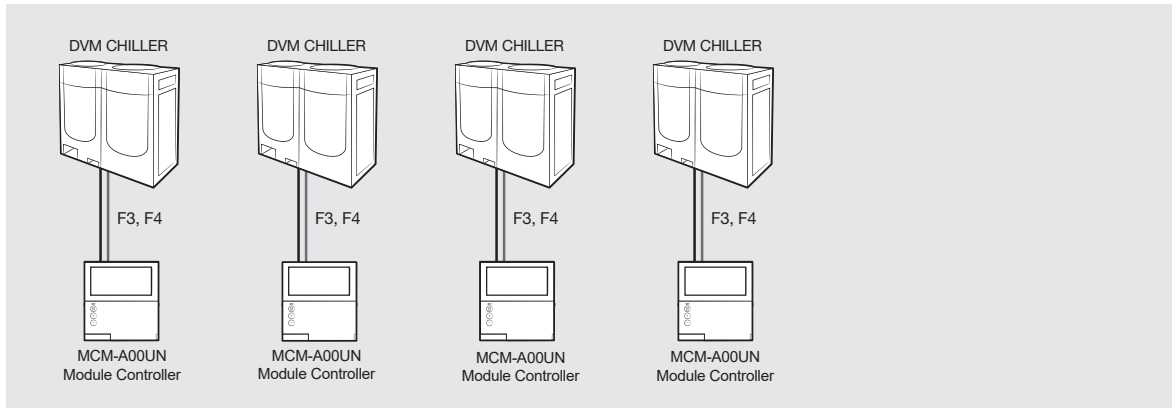


### Specifications

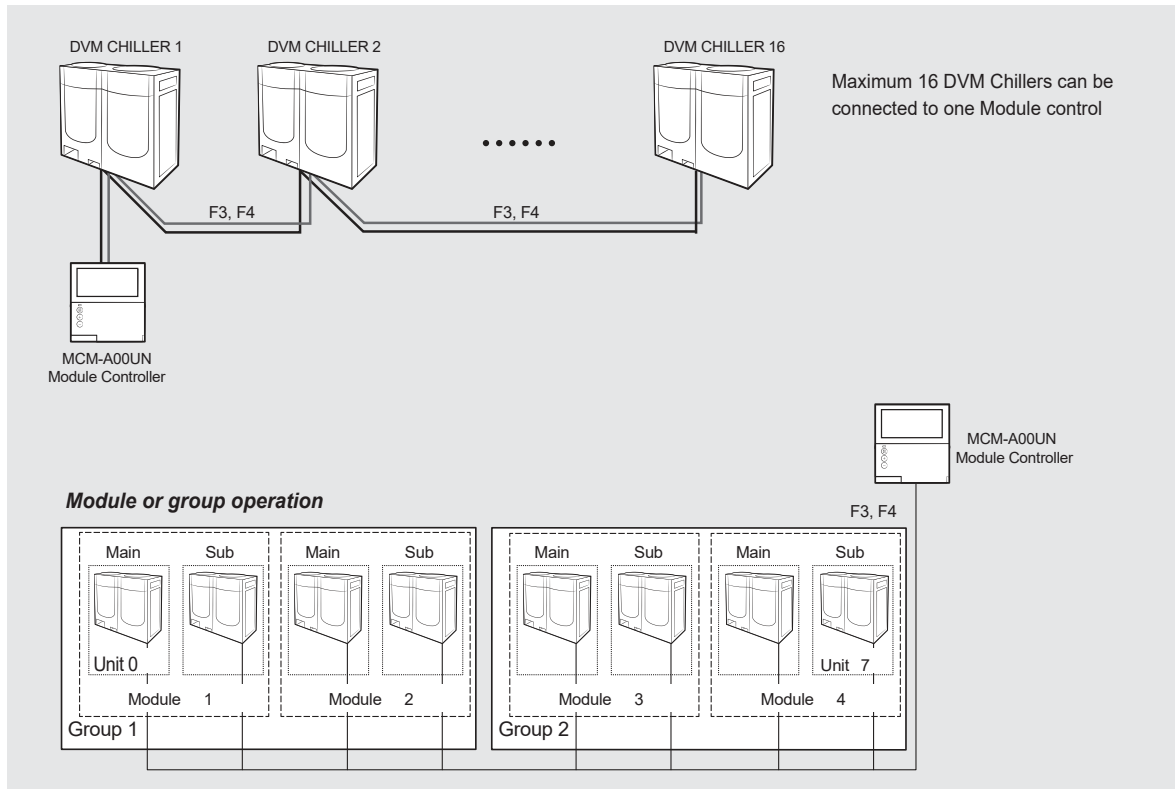
- Compatible with Samsung DVM Chiller systems only (AG0\*\*KSVA\*H/AA).
- Operating temperature range: 32°F - 104°F (0°C~40°C)
- Can connect and control up to 16 DVM Chiller units
- DVM CHILLER can have a maximum of 8 modules (1 - 8) and 4 groups (1 - 4)
- A maximum of 8 units can be connected as a module, and a maximum of 8 modules can be connected as a group.
- A module or a group must be connected to a single water pipe.
- When modules are controlled by a group, the modules cannot operate themselves and the display will not show the modules during the module operation.
- 2 Conductor connection
- DC 12V power supplied by indoor unit
- PLC (power line communication) is done on F3/F4 terminals.
- Power consumption: 2W
- MCM-A00UN has screw terminals for all wiring connections, wire is not included
- 16 AWG shielded cable is necessary for proper operation
- Maximum wire length: 656 feet



### DVM Chiller Connection - 1:1



### DVM Chiller Connection - Multiple



- Module/group operation is to combine multiple DVM Chillers in modules or groups of a single water pipe system and to operate them depending on the working condition.
- A single module control can control a maximum of 16 DVM Chillers (0 ~ 15). DVM Chiller can have a maximum of 8 modules (1 - 8) and 4 groups (1 - 4).  
A maximum of 8 units can be connected to a module, and a maximum of 8 modules can be connected to a group.