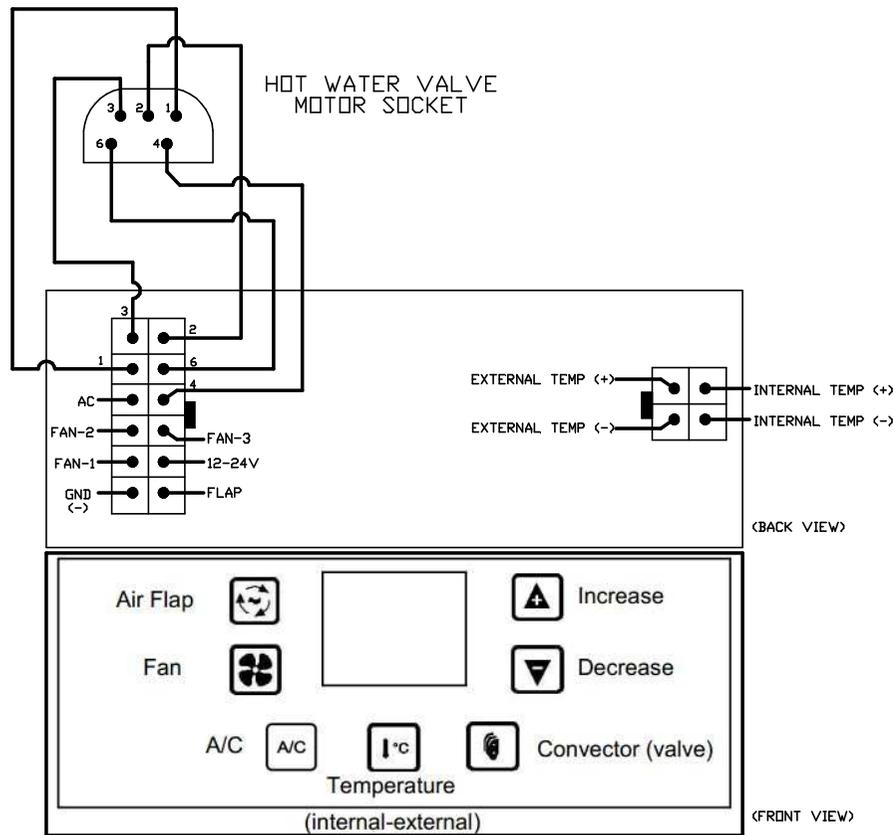


# MA-ER ME KL1 AIR CONDITIONER CONTROL UNIT



**Note: Outputs are max. 0.8A.**

**Startup test (tE):** Digital controller runs a valve diagnose when it is first energized. If tE sign is not turned off after a few seconds, it means of valve malfunction. Check the connections of the valve. Press Convector button to skip the test.

## PROGRAM OPTIONS:

- P2 : Heating - Cooling
- P3 : Cooling only
- P4 : Front (driver) Heating - Cooling
- P5 : Heating only

## CHANGING PROGRAM:

- 1- Press & release temperature button and then press & release air flap button instantly.
- 2- Select the desired program with (+) or (-) buttons.
- 3- Press the temperature button again to confirm the chosen program.

## P2 - Heating - Cooling Program:

- \* Display shows internal temperature set value.
- \* Internal temperature set value can be adjusted by pressing (+) and (-) buttons.
- \* Internal and external temperatures can be seen on display respectively by pressing the temperature button. Internal temperature set value is shown again after a few seconds.
- \* By pressing A/C button, internal temperature is automatically adjusted (Cooling):
  - A/C led is on, convector led is off.
  - Evaporator fans fully work, all three leds are on.
  - If the inside temperature is higher than the set value, A/C will begin to work after 30 seconds.
  - If the inside temperature is lower than the set value, A/C will close.
- \* By pressing convector button, internal temperature is automatically adjusted (Heating):
  - Convector led is on, A/C led is off.
  - If the inside temperature is lower than the set value, convector valve is opened (with three stages according to set-temperature value difference).
  - If the inside temperature is equal or higher than the set value, convector valve is closed.

## P3 - Cooling Only Program:

- \* Convector button is disabled
- \* Only cooling functions work.

## P4 - Front (Driver) Heating - Cooling Program:

- \* Temperature sensors are disabled in this program. (- -) sign is shown on display. Internal temperature set value cannot be adjusted. A/C or convector valve is manually controlled.
- \* A/C button activates driver's air conditioner. Valve is closed.
- \* Convector button activates heating mode and air conditioner is closed.
  - Valve's opening level is shown on display. (00: Fully close, 05: Fully open)

## P5 - Heating Only Program:

- \* A/C button is disabled.
- \* Only heating functions work.

## MANUAL RUN:

### **CC : Continuous cooling**

Decrease the set value until "CC" is shown on display to turn on Direct Cooling Mode in case of malfunction.

### **HH : Continuous heating**

Increase the set value until "HH" is shown on display to turn on Direct Heating Mode in case of malfunction.

## ERROR CODES:

- E0 : Valve malfunction
- E1 : Internal temperature sensor malfunction
- E2 : External temperature sensor malfunction
- E3 : Valve potentiometer malfunction