



Mechanical Control Panel (MCP)

Installation & Operation Manual

Dometic
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INSTALLATION

FAN CONTROL

1. The MCP should be located within electrical harness length of the fan.
2. Use the cut out drawing packaged with the MCP to cut the properly sized installation hole.
3. Once the cut out is made, route the harness wires through the hole and back to the fan.
4. Make electrical connections according to the wiring diagram found in the electric box and/or in the operations manual.
5. Using the four corner holes of the MCP as a guide, drill pilot holes then attach to wall using the screws provided.

THERMOSTAT CONTROL

1. The MCP should be located within cap tube length of the air conditioning unit.
2. Use the cut out drawing packaged with the MCP to cut the properly sized installation hole.
3. Once the cut out is made, carefully uncoil the copper cap tube with return-air sensor (copper bulb) and route the control wires and cap tube through the hole and back to the air conditioning unit **using caution not to kink the cap tube**.
4. Mount the return-air sensor into the clips provided on the evaporator coil. If the return-air sensor cannot be mounted on the evaporator coil, mount it behind the return-air grille. The sensor must be mounted in the return-air stream.
5. Make electrical connections according to the wiring diagram found in the electric box and/or in the operations manual.
6. Using the four corner holes of the MCP as a guide, drill pilot holes then attach to wall using the screws provided.

OPERATION

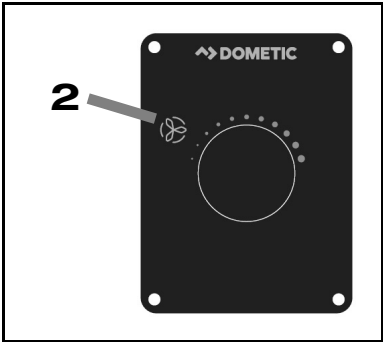
For all MCPs, refer to the “Knob Reference Chart” on page 2.

FAN CONTROLS

NOTE: A Fan (slave) Control only operates an air handler that has its temperature regulated by a separate Thermostat Control. A Fan Control does not operate an air conditioning system.

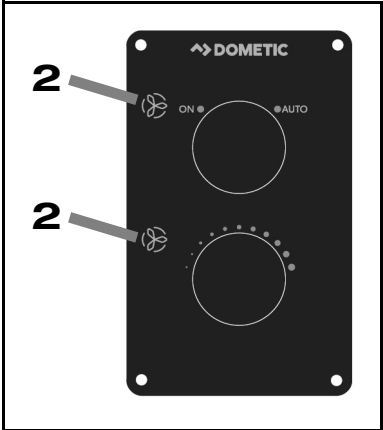
1-KNOB FAN CONTROL

1. Turn on air conditioning system using its primary Thermostat Control.
2. Turn FAN SPEED knob clockwise to highest setting.
3. Verify that the fan is running and that there is steady airflow out of the supply-air grille.
4. Turn FAN SPEED knob to desired setting. Turn clockwise for faster fan speed or counter-clockwise for slower fan speed.



2-KNOB FAN CONTROL

1. Turn on air conditioning system using its primary Thermostat Control.
2. Turn the FAN MODE SELECTION SWITCH (top control knob) to ON (left position) or AUTO (right position). If set to ON, the blower runs continuously. If set to AUTO, the blower runs only when the primary thermostat calls for cooling or heating.
3. Turn FAN SPEED (bottom control knob) to desired setting. Turn clockwise for faster fan speed or counter-clockwise for slower fan speed.

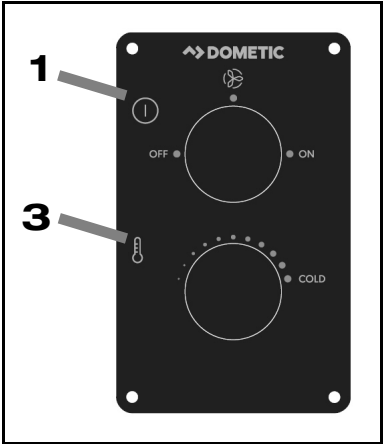


THERMOSTAT CONTROLS

NOTE: Do not turn the unit off and immediately turn it back on. Allow at least 3 minutes for refrigerant pressure to equalize.

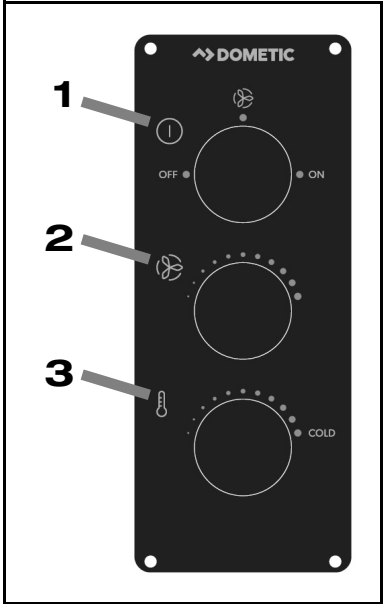
2-KNOB THERMOSTAT CONTROL

1. Ensure seawater intake ball valve (seacock) is open.
2. Turn SYSTEM SWITCH (top control knob) to OFF.
3. Turn on A/C circuit breaker. If the seawater pump has its own circuit breaker, turn that on also.
4. Turn the SYSTEM SWITCH (top control knob) to FAN (middle position); this energizes the fan.
5. Turn THERMOSTAT (bottom control knob) to the coldest position by rotating fully clockwise.
6. Verify that the fan is running and that there is steady airflow out of the supply-air grille.
7. Turn the SYSTEM SWITCH (top control knob) to ON; this will start the compressor and seawater pump.
8. Check for steady solid stream of seawater from the overboard discharge.
9. Set thermostat to desired temperature. See the “Using The Thermostat” section below.



3-KNOB THERMOSTAT CONTROL

1. Ensure seawater intake ball valve (seacock) is open.
2. Turn SYSTEM SWITCH (top control knob) to OFF.
3. Turn on A/C circuit breaker. If the seawater pump has its own circuit breaker, turn that on also.
4. Turn the SYSTEM SWITCH (top control knob) to Fan (middle position); this energizes the fan (and starts the seawater pump if used with a split system).
5. **If in cool mode**, turn THERMOSTAT (bottom control knob) to the coldest position by rotating fully clockwise. **If in heat mode**, turn THERMOSTAT (bottom control knob) to the warmest position by rotating fully counter-clockwise.
6. Turn FAN SPEED (middle control knob) clockwise to highest setting.
7. Verify that the fan is running and that there is steady airflow out of the supply-air grille.
8. Turn the SYSTEM SWITCH (top control knob) to ON; this will start the compressor (and seawater pump if used with a self-contained unit).
9. Check for steady solid stream of seawater from the overboard discharge.
10. Turn FAN SPEED (middle control knob) to desired setting. Turn clockwise for faster fan speed or counter-clockwise for slower fan speed.
11. Set thermostat to desired temperature. See the “Using The Thermostat” section below.



USING THE THERMOSTAT

To set the thermostat, allow sufficient time for the unit to cool/heat the area to the desired temperature. When the area is sufficiently cooled/heated, turn the THERMOSTAT slowly toward the center position until it clicks once. The thermostat is now set to maintain a constant temperature. While heating, if the ambient temperature is less than 50°F/10°C, set the FAN SPEED to LOW for 5 to 10 minutes until the unit begins to heat well, then increase the fan speed for more heat output.

The thermostat cycles the compressor on and off and provides an automatic changeover from cooling to heating with a 3.5° differential. Rotating the thermostat to the left after it has been set for cooling will cause the unit to heat. If you rotate the thermostat to the right, the unit will cool. If the thermostat is left stationary after being set, the unit will cycle from cooling to neutral, or from heating to neutral depending on the requirement.

The condenser’s reversing valve switches the unit between heating and cooling modes, and it must be energized periodically to keep the internal parts moving freely. To accomplish this, for a few seconds once a month switch the air conditioning unit to HEAT if running in cool mode or to COOL if running in heat mode.

KNOB REFERENCE CHART

Reference Number	Icon	Knob Description
1		System Switch - Set to OFF, FAN, or ON.
2		Fan Speed - Increase fan speed by turning knob clockwise; decrease fan speed by turning knob counter-clockwise. Mode Select - (2-Knob Slave Fan Control only) Select fan ON or AUTO mode.
3		Thermostat - Set colder temperature by turning knob clockwise; set warmer temperature by turning knob counter-clockwise.