

COOLSHIRT

TEMPERATURE CONTROLLED GARMENTS



PROCOOLR

Operating Manual

Initial Setup:

1. Remove tank cap and fill tank to the top with coolant.
2. Connect Coolshirt vest to unit to allow any coolant to enter the vest.
3. Connect 12V power source to the control box. Connect hot wire to terminal across from red wire and neutral wire to terminal across from black wire. (See picture to the right) Leave unit in 'OFF' position which is toggle switch down.
4. Have coolant ready to fill the tank when unit is first turned 'ON'.
5. When unit is turned 'ON', coolant may leave the tank to fill the hoses and vest.
Continuously add coolant until level stays full in tank.
6. Securely mount the unit inside the car.
7. Securely mount the control box within driver's reach for easy accessibility.



User Operation:

1. **Flip toggle switch to cycle unit 'ON' and 'OFF'.**
 - a. Down is 'OFF' position
 - b. UP is 'ON' position
2. **With unit 'ON', rotate knob to control amount of cooling.**
 - a. Rotating clockwise will increase cooling
 - b. Rotating counterclockwise will decrease cooling
 - c. Knob needs to be turned to halfway position for minimum cooling

Sequence of Operation:

When unit is turned 'ON', the water pump and condenser fan turn on immediately and run continuously. If you notice the fan not turning on or stops running at any point, then there is either a problem with the power source or its internal fuse has blown. If you notice a problem with water flow, then there is either a problem with the power source, its internal fuse has blown, or there is a kink/obstruction in the connected hoses. If flow is good, then the compressor can turn on for cooling. Turning the knob to halfway is the minimum position for cooling.

NOTE: It is recommended to pre-cool the system before putting a load on the system.

Internal Safeties:

- Unit has a flow switch that must make for compressor to turn on.
- Compressor has a high limit temperature switch that opens when compressor runs too hot.
- Major components (fan, compressor, pump) all have replaceable fuses.

Electronic Specifications:

- Output Fuses
- Fan Mini Blade, 12VDC, 10 Amps
- Pump Mini Blade, 12VDC, 3 Amps
- Compressor Mini Blade, 12VDC, 15 Amps

Inputs:

- Flow Switch Dry contact type switch only. Make with flow.