



Pro Air & Water System

Made in the U.S.A

Congratulations on your purchase of the world's finest Driver Cooling System

The **COOLSHIRT® Pro Air & Water System** is the finest Driver Cooling System Available today. Used by drivers in all levels of racing, this system delivers the ultimate in driver cooling comfort. The Pro Air & Water System delivers temperature controlled cooled water to the driver's **COOLSHIRT®** while providing cooled HEPA-4 filtered, blower enhanced air to the driver's helmet.

COOLSHIRT Personal Cooling Systems are manufactured in the USA and contain the highest quality components available. With proper installation and maintenance, your system will provide you with years of dependable service. ***Please inspect your purchase to ensure that your system contains the selected components listed below. If there are any discrepancies, please contact COOLSHIRT SYSTEMS Customer Service at 800-345-3176 immediately.***

Available Accessories:

<u>Part #</u>	<u>Description</u>
4012-1100	12-foot insulated water hose with quick disconnects
5003-0001	Maintenance Additive (16 oz bottle)
4100-0002	Mounting Tray for Club System 19
4300-0002	Dual Temperature Control Switch
5006-0003	Drain Kit

System Specifications:

<u>Dimensions</u>	<u>Cooling Time</u>	<u>Dry Weight</u>	<u>Power Required</u>
14"L x 9.5"W x 11"H	3 Hours	6 lbs.	235 CFM Blower: 2.9A, 12V Water Pump: 2.0A, 12V
15.5"L x 10.5"W x 13"H	6 Hours	7 lbs	235 CFM Blower: 2.9A, 12V Water Pump: 2.0A, 12V

Installation Instructions:**MOUNTING TRAY and COOLING UNIT**

- 1) Using the end of the strap opposite the COOLSHIRT logo, loop it through the hole in the tab running up the side of the cooler and Velcro it back to itself.
- 2) Run the other end of the strap with the COOLSHIRT logo on it up through the "ear" on the cooler and bring it back down and Velcro it to itself.
- 3) Repeat these steps on the other side of the cooler.

Note: Ensure that the 12-foot water hose and the 8-foot x 1½" air hose can reach the driver. Do not allow the hose to come into contact with any hot metals as this may damage the hose.

BLOWER

- 1) Select the cockpit location for the blower and permanently mount the blower to the racecar using any appropriate hardware (not provided)
- 2) Make sure that the 3-inch air intake is pointed towards the outside of the car. Place filter and screen and fasten with a tie-wrap or clamp (not provided).

CAUTION: DO NOT OVER TIGHTEN AS THIS CAN CAUSE DAMAGE TO THE FAN BLADES

TEMPERATURE CONTROL SWITCH

- 1) Select the location for the Temperature Control Switch and permanently mount the switch to the racecar using any appropriate hardware (not provided). The switch has a faceplate that allows for convenient in-dash mounting or it may be mounted at any location that is accessible by the driver
- 2) Wire the cooling unit and the blower to the Temperature Control Switch using appropriate lengths of wire (not provided). As the instructions provided with the switch illustrate:

Cooling Unit: brown = + (positive), black= - (negative)

Blower: yellow= + (positive), black= - (negative)

Now wire the Temperature Control Switch to the racecar's 12V system and ground properly using the instructions provided with the switch.

Installation Instructions(continued):**INTAKE AIR HOSE AND HELMET AIR HOSE**

- 1) Determine the length of 3-inch hose needed to pick up outside air and cut the hose to the appropriate length.
- 2) Slide one end of the 3-inch hose over the intake side of the blower. If you have a NACA duct, connect the hose to the duct appropriately.
- 3) Attach the other end to the blower using the 4-inch adapter provided
- 4) Attach the 1½ Helmet Air hose to the adapter already attached to the other side of the blower.
- 5) Determine length of 1½ inch hose needed to connect to the driver's helmet and cut the hose to the appropriate length.
- 6) Attach to the helmet with the adapter provided.

Operating Instructions:

- 1) Pour water into the cooling unit. Fill the unit with block ice (preferable) or cubed ice to the top of the unit.
- 2) Put on the COOLSHIRT. Put on your driver's suit and route the hoses outside of your suit via the side pocket or front zipper.
- 3) Connect hose to cooling unit and COOLSHIRT. Listen for an audible "click"-that ensures a good connection.
- 4) Attach helmet hose. Using Dual Temperature Control Switch, turn the unit on and select your setting preference.

Troubleshooting:

- 1) **Leaks:** Check to see if all fittings are properly connected. Listen for an audible "click".
- 2) **Not Pumping:** Recheck electrical connections.
- 3) **Water not flowing:** Check the hoses to be sure that your seat belt or harness is not crimping the tubing. If the pump is running but not pumping water, add one more quart of water.

Troubleshooting(continued):

- 4) ***Air not circulating:*** Recheck electrical connections.

Maintenance:

- 1) **COOLSHIRT®:** Turn the shirt inside out and wash in washing machine on the gentle cycle in warm or cold water
- 2) Add 2 ounces of Maintenance Additive to the cooling unit ***with the ice and water each time the unit is used.*** This will keep the pump, hoses, and shirt lines clear of the buildup that occurs naturally in water circulation systems and will increase the performance and lifetime of the pump. Also, once per month or just before long-term storage, drain the hose and shirt with the universal connector & Drain kit

All products are guaranteed for one year from the initial date of purchase for defects in material and workmanship. If you have any questions, please call COOLSHIRT SYSTEMS Customer Service at (800) 345-3176. We appreciate your interest in our personal cooling products.