

Dry Cool Air System

2019 Revision

Made in the U.S.A

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

COOLSHIRT Personal Cooling Systems are the finest available today. Used by companies in all levels of industry, this system delivers temperature-controlled cooled water to the user's shirt, keeping them comfortable, more productive, safer, mentally alert, and helping prevent heat exhaustion.

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 components checked off below. If there are any discrepancies, please contact COOLSHIRT SYSTEMS Customer Service at 800-345-316 immediately.

Included with your system:

<u>Quantity</u>	<u>Part #</u>	<u>Description</u>
_____ 1	5013-0015	Dry Cool Air System Cylinder
_____ 1	5013-0002	235 CFM Blower
_____ 1	5013-0003	8-foot x 1.5 inch black air hose
_____ 1	5013-0004	3 foot x 3 inch black intake hose
_____ 1	5013-0011	Hose-end fitting for the helmet
_____ 1	5013-0014	HEPA-4 Micron Air Filter and
_____ 1	5013-0008	4" x 1.5" Blower Hose End

System Specifications:

<u>Dimensions</u>	<u>Cooling Time</u>	<u>Dry Weight</u>	<u>Power Required</u>
DCAS: 16"L x 6"W x 6"H	3 Hours	3 lbs.	12V
BF-235: 4" Diameter	6 Hours	.8 lbs.	12V

Installation Instructions:**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.
- 3) Connect blower to a 12V power source.

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 blower using the 3-inch black adaptor provided.
- 4) Attach the 1½ Helmet Air hose to the black adaptor already attached to the other side of the blower.
- 5) Determine length of the 1½ hose needed to connect to the driver's helmet and cut the hose to the appropriate length.
- 6) Attach to the helmet with the black adaptor provided.

Dry Cool Cooling Cylinder:

- 1) Determine the desired location by measuring hose lengths and power location.

Instructions for Use:

- 1) Connect water lines in series with your COOLSHIRT garment.
- 2) Put on the COOLSHIRT next to your skin with the tubing facing out. Put on your other protective gear or uniform and route the hoses outside of your gear via the side pocket or front zipper
- 3) Turn the unit on.

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.

Maintenance:

- 1) **COOLSHIRT:** Turn the shirt inside out and wash in washing machine on the gentle cycle in warm or cold water. Drip dry.
- 1) Add one 2 ounce bottle of Maintenance Additive (#5003-0001) in the cooling unit with the ice and water each time the unit is used. This will keep the pump, hoses and vest lines clear of the buildup that occurs naturally in water circulation systems and increase the performance and lifetime of the pump. You can also drain the hose and vest after each use with the Universal Connector & Drain kit (#5006-0003)

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.