



Trailer Mounted Air-to-Air Cooler

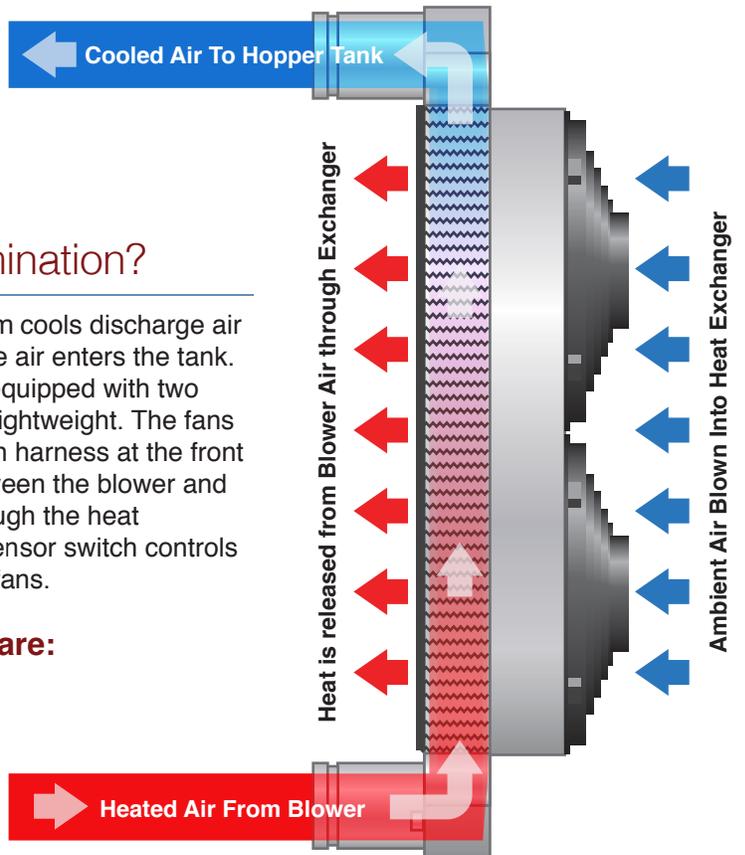
The ultimate protection for heat sensitive loads



The Bulk Tank Inc. Trailer Mounted Air-to-Air Cooler was developed and designed for pneumatic dry bulk tank trailers in the transport of heat-sensitive products such as sugar, plastic pellets, and resins. In the pneumatic unloading process, compressed air is the conveying medium. When air is compressed it generates heat. The higher the pressure the greater the temperature and temperatures up to 350°F, in a typical operation, can be hazardous to the product load.

How Does Hot Air Contaminate Dry Bulk Shipments?

As the pressure of the pneumatically conveying air rises, the temperature of the product also rises causing plastic pellets to melt and sugar to caramelize. The composition of the pellets sticks together or breaks down into “angel hair”, rendering them useless. Plastics, sugar and other heat sensitive products melt and coat the tank hoppers, outlets and the discharge line, requiring lengthy and expensive clean up procedures.



How Does the Cooler Eliminate Contamination?

The solution: The BTI Trailer Mounted Air-to-Air cooler system cools discharge air to approximately less than half of inlet temperature before the air enters the tank. The cooler’s heat exchanger is rated for 1100 SCFM and is equipped with two electric fans. Constructed out of aluminum, it is durable and lightweight. The fans are powered by the tractor’s electrical system, using the 7-pin harness at the front of the trailer. The cooler is installed in the air supply line between the blower and the hopper tank, allowing the conveying air to be routed through the heat exchanger, and cooled by the fans. An automatic pressure sensor switch controls the fans, eliminating possible operator failure to activate the fans.

Advantages of the BTI Trailer Air-to-Air Cooler are:

- Provides cooled air to the dry bulk material.
- Cooler is automatic - no special procedure is required.
- Virtually maintenance free.
- Requires no external water, air, or electric source.
- Victaulic groove on the piping stub coming from the cooler, intake and discharge ports.
- Compact, light, inexpensive, and does not affect the size of the trailer.



www.bulktankinc.com

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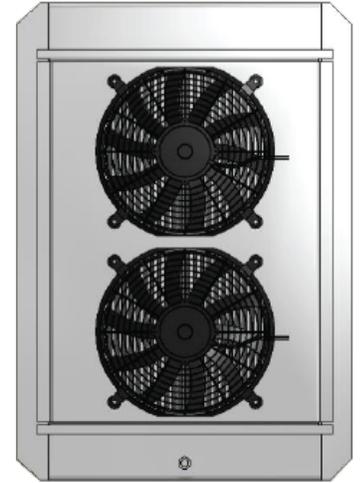
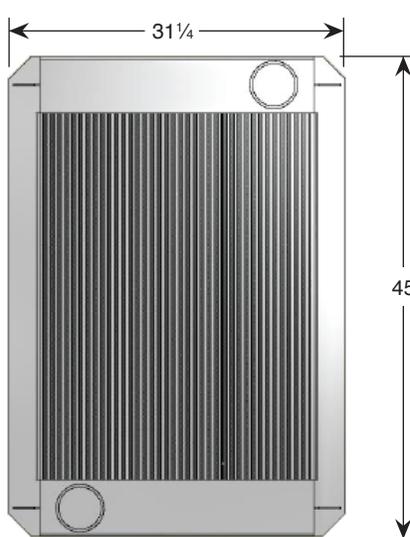
Air Coolers

We have two different cooler configurations to suit your needs. The 4-inch inlet and outlet tubes can be located on the same side as the fans, or on the opposite side of the fans.

Cooler 1:

Standard air cooler, with 4-inch intake and discharge nozzles on side opposite fans.

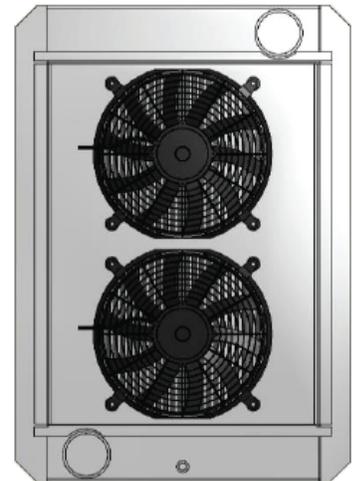
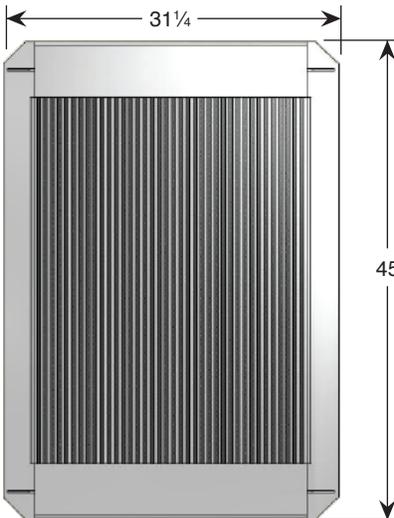
Part Number:
251-058-000



Cooler 2:

Optional air cooler, with 4-inch intake and discharge nozzles same side as fans.

Part Number:
251-059-000



Ordering an Air-to-air Cooler:

This air-to-air cooler is available as a universal kit that can install to any pneumatic dry bulk tank, regardless of manufacturer. This kit includes the heat exchanger, electric fans, insulating bushings, fan switch, and thermometers.

Please contact Bulk Tank Inc. for information on our cooler kits by calling 1-800-841-5524. Bulk Tank Inc. is an ISO 9001 certified, nationally known company specializing in the manufacture of innovative parts for the pneumatic tank trailer industry.

Part Number	Qty.	Description
BAC-SOLENOID	1	Weather Proof Solenoid
BAC-FANBRKT	2	90° Mounting Brkt For Fan
BAC-FAN	2	16" Axial Fan, 12 Volt, Pusher
BAC-PRESWITCH	1	Press Switch, 3psi Activated
BAC-TEMGAUGE	2	Temp Gauge, Range 50/300
BAC-BUSHING	6	Rubber Shock Bushing



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