

## Remote Discharge Air Cooler: RAC Data Sheet

A new slim line, plug and play air cooler, developed for a multitude of applications, for use with both truck air compressors & blowers. The remote air cooler is designed for use within the dry bulk discharge market for offloading of temperature sensitive materials, including foods & plastics. The cooler is offered in two versions, volume dependent 800 m<sup>3</sup>/h (RAC8) and 1,150 m<sup>3</sup>/h (RAC11), optimized to best suit your installation without creating unwanted humidity in discharged airflow. Its pre-assembled design allows for an out-of-the-box installation and an easy coupled installation to our compressor and blower range.



### Design

Each air cooler includes a high efficiency cooling fan, a 24V DC electric motor and a large capacity radiator encased within an GRP cover. The remote air cooler is designed to operate effectively throughout the entire operating ranges of all GHH RAND® Silu® compressors and encompasses a highly flexible customer interface. The cooler is suitable for new and existing side mount installations as well as for trailer and behind-cab mounting.

### Scope of supply

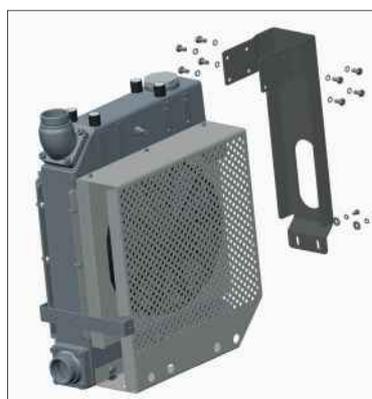
- Large capacity radiator
- High efficiency cooling fan (incl. shroud)
- 24V DC electric motor (IP67)
- All within a silver GPR (Glass Reinforced Plastic) cover
- Mounting bracket for easy chassis installation
- Bare cable incl. waterproof connector kit, control equipment optional
- Cool air outlet at top, turnable, horizontal or vertical
- Horizontal hot air outlet at the bottom
- Fully pre-assembled – ready to install

### Optional features

- Automatic start/stop fan control unit for connection in switched electric circuit
- Optional non-return valves available:
  - GHH RAND® “RV50” for up to 800 m<sup>3</sup>/h suction volume flow (RAC8)
  - 2 ½" flap for up to 1,150 m<sup>3</sup>/h suction volume flow (RAC11)
- Optional inlet flange, 2 ½" male thread, straight or 45° cranked
- Optional top air outlet, 2 ½" female thread for rigid installations
- Sheet metal fan guard and fishbone air guide available for side protection where needed
- Storz and French hose couplings

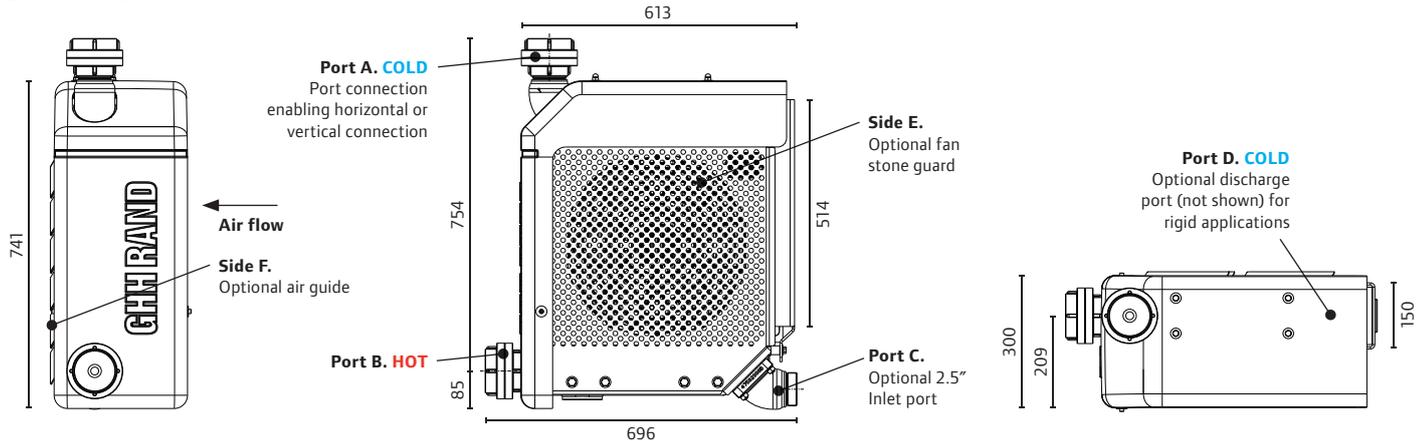
### Ease of installation

The remote air cooler is designed to be mounted perpendicular to the vehicle chassis, with an easy to install mounting bracket providing a rigid fixing to the frame. Multiple discharge connection points further provide a high level of flexibility and can be configured as a single cooled discharge or alternatively a dual outlet, providing the user an added benefit of a hot air discharge for tank drying after cleaning. A further optional discharge port is also available for rigid truck applications. The remote air cooler series is a highly flexible solution primarily aimed at tractor mount installations.



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## Dimensions



## Performance

- RAC8 for volume flows up to 800 m<sup>3</sup>/h
- RAC11 for volume flows up to 1,150 m<sup>3</sup>/h
- Excellent cooling performance, see table\* with  $\Delta T$  (\*actual measured performance)
- Pressure drop: 0.1 bar (at 1,100 m<sup>3</sup>/h, 2.4 bar(g), 30°C ambient temperature)

## Options in detail

### 1. Connections/flanges for inlet/discharge outlets

Port A. (Cold, Position: Front Upper):

- 2.5" BSP Male 45° Cranked (No NRV), supplied as standard in base model (Option 2)
- 2.5" BSP Male 45° Cranked, including NRV RV50 for RAC8 (Option 2a)
- 2.5" BSP Male 45° Cranked, including NRV 2.5" Flap for RAC11 (Option 2b)
- Blanking Cap (Option 3), required when Port D is used
- Flange direction optionally to top or front

Port B. (Hot, Position: Front Lower):

- 2.5" BSP Male Straight (No NRV), supplied as standard in base model (Option 1)
- 2.5" BSP Male Straight for RAC8, including NRV RV50 (Option 1a)
- 2.5" BSP Male Straight for RAC11, including 2.5" Flap NRV (Option 1b)
- Blanking Cap (Option 3), required when Port D is used or hot air for tank drying not required

Port C. (Inlet, Position: Rear Lower):

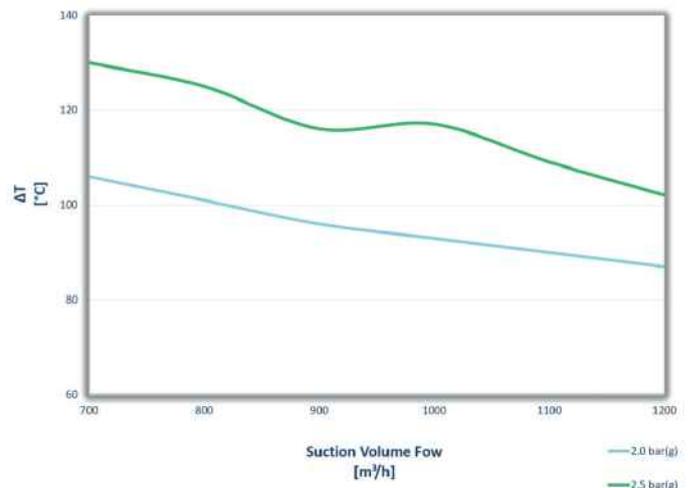
- 2.5" BSP Male Straight (No NRV, Option 1)
- 2.5" BSP Male 45° Cranked (No NRV, Option 2)
- No flange option (Standard)

Port D. (Cold, Position: Rear Upper for rigid trucks):

- 2.5" BSP Female Straight (No NRV, client usually installs own in discharge airline)

### 2. Hose couplings

- 2.5" Storz B including Blanking Cap
- 2.5" French including Blanking Cap



## Weight

- The Remote Air Cooler base design weight is 48.5 kg (including the 5 kg mounting bracket and all fixings). The optional side covers weigh 1.9 kg each.

## Want to meet your fleet color?

- Standard colour is a metallic silver with glossy finish
- 16 different RAL colours for GRP cover material available: 2011, 3000, 3002, 3004, 3005, 5005, 5010, 6018, 6026, 7021, 7032, 9002, 9005, 9010 and 9016
- GRP is also easy to paint in any other custom colour

## Drawing reference

- 47583555

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