# RCD Bearing Cooler Unit

The RCD Bearing Cooler Unit is customed designed to work with **ARES 3078** and **ARES 3090** Bearing Assemblies. The cooling unit utilizes a hydraulic pump and electric cooling fan to continuously pump cooled bearing oil through the Bearing Assembly during operations. Cooling the equipment allows longer operating times and extends the overall Bearing Assembly life in high temperature environments and applications as well as sustained high RPM use.

## Applications

- Managed Pressure Drilling
- Underbalanced Drilling
- Pressurized Mud Cap Drilling
- Extended Reach well
- Geothermal wells
- High Temperature Environments
- High RPM

RCD Bearing Cooler Unit

## Features

- Compatible with all ARES 3078 and 3090 Bearing Assemblies
- Forklift pockets and top lifting lugs for optimal handling
- Automatic circulating pump and cooling fan
- 10 HP Electric Motor
- 2 HP Electric cooler fan
- Class 1 Div 2 Electrical Rating, Zone I and ATEX options available
- 100 ft electrical cables
- 21.7 GPM Tandem Gear Hydraulic Pump
- 2 X 100 ft., 5000 psi hydraulic hoses for supply (⅝ in.) and return (¾ in.)
- RCD Circulation and Cooler Circulation pressure relief valves
- Automatic oil level monitoring with high- and low-level shutdown and isolation
- Visual filter indication
- Simple control panel with power switch, emergency stop, and manual override for cooler functions

Beyond

# RCD Bearing Cooler Unit

## Specifications

| General Data | |
|---|---|
| **Dimensions (L x W x H)** | 1.8 m x 1.2 m x 1.8 m (70 in. x 48 in x 72 in) |
| **Estimated Dry Weight** | 1361 kg (3000 lb.) |
| **Estimated Wet Weight** | 1588 kg (3500 lb.) |
| **Reservoir Capacity** | 170.3 L (45 US gal) |
| **Cooler Circulation Pressure Relief** | 1379 kPa (200 psi) |
| **RCD Circulation Pressure Relief** | 1724 kPa (250 psi) |
| **Electrical Rating** | Class 1 Division 2 |
| **Power Source** | 230/380/460V 3-Phase 50/60Hz |
| **Hydraulic Pump – Tandem Gear** | |
| **Lubricant Type** | ISO 320 Synthetic Gear Oil |
| **Heat Exchanger Circuit Pump Displacement** | 36 cc/rev (2.17 $in^3$/rev) |
| **Maximum Flow** | 64 L/min (16.9 GPM) |
| **Bearing Lubricating Circuit Pump Displacement** | 10 cc/rev (0.62 $in^3$/rev) |
| **Maximum Flow** | 18.2 L/min (4.8 GPM) |