

Dean Pump® High Temperature Air-Cooled Hot Water & Water/Glycol Pumps

**No Water
Cooling
Required**



RWA4166



RWA2096



RWA4206

Dean Pump® RWA2096

The smaller, foot mounted, economy version of the air-cooled RWA series pumps.

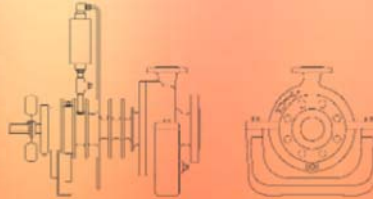
- Available in three sizes
- Thrust bearing is double row sealed design
- Flanges are Class 150 with flat face
- Small size casings are subject to less thermal growth at higher pumpage temperatures allowing economical foot type construction
- Dimensionally interchangeable with small ASME/ANSI B73.1 pumps



Dean Pump® RWA4166

The larger, centerline supported, yoke mounted version of the air cooled RWA series pumps.

- Available in nine sizes
- Dimensionally interchangeable with R4140 series pumps and baseplates
- Thrust bearings are a pair of angular contact type
- Flanges are Class 300 with raised face
- Centerline mounted casing minimizes thermal growth about the pump centerline without disturbing alignment; rugged yoke mount casing support holds the pump securely in place resisting thermal expansion piping loads
- Pumps can be mounted on ASME/ANSI B73.1 design baseplate



Dean Pump® RWA4206

The largest, centerline supported, pedestal mounted version of the air cooled RWA series pumps.

- Available in one size
- Dimensionally interchangeable with R4184 series pump piping and dimension envelope
- Thrust bearings are a pair of angular contact type
- Flanges are Class 300 with raised face
- Centerline mounted casing minimizes thermal growth about the pump centerline without disturbing alignment; rugged pedestal mounted casing support holds the pump securely in place resisting thermal expansion loads

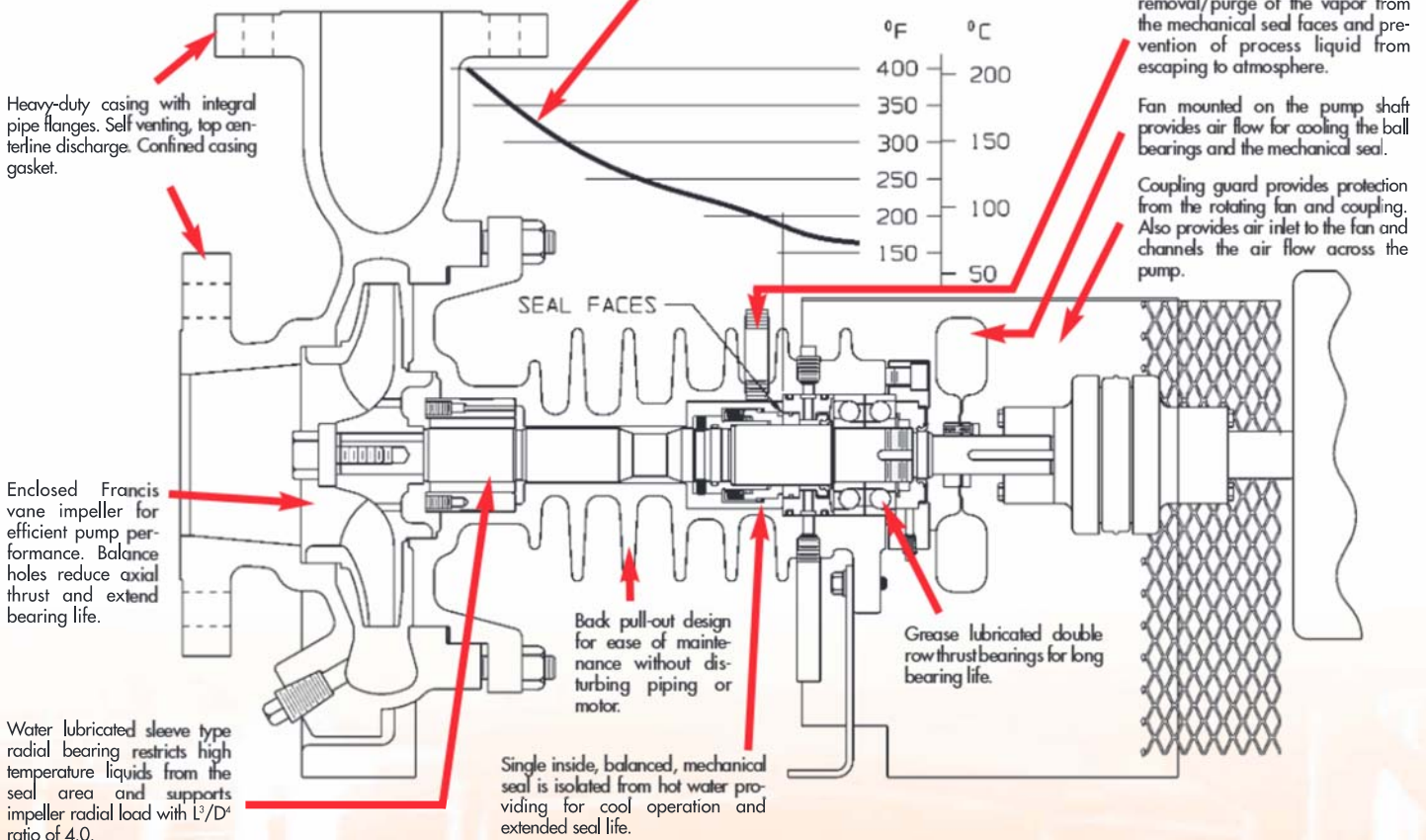


DEAN PUMP® SERIES RWA FAN COOLED "HOT WATER" PUMPS

No Liquid Cooling Required

The air fan cooling design of RWA Series pumps permits temperature drop in the pump from the casing to seal faces. When pumping at 400°F (204°C), the seal face temperature is 190°F (88°C). The efficient gradient breakdown protects the mechanical seal and bearing.

Temperature drop in pump from casing to bearings when pumping at 400°F (204°C).



Experience counts!

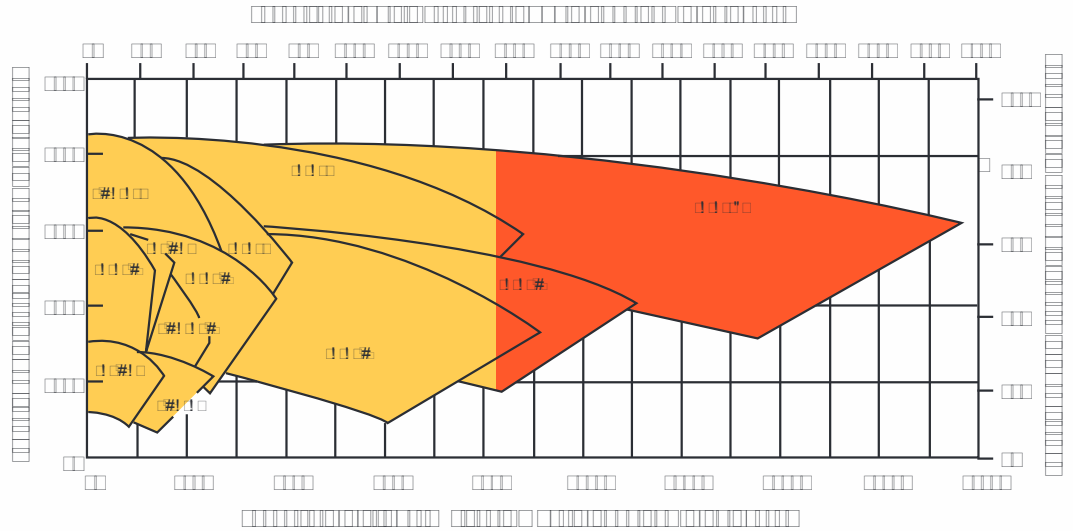
Dean Pump has designed and manufactured high temperature service pumps for well over 100 years. The Series RWA pump continues Dean's tradition of experience in this field, and represents the highest quality and most cost effective hot water pumping equipment currently available in the market.

Engineered for maximum parts interchangeability, the RWA pumps are designed specifically for use on hot water, ethylene glycol, propylene glycol, and triethylene glycol systems. The key feature of this pump line – **NO EXTERNAL WATER COOLING REQUIRED FOR THE BEARINGS AND THE MECHANICAL SEAL** – provides significant savings by eliminating additional, secondary utility and operating costs.

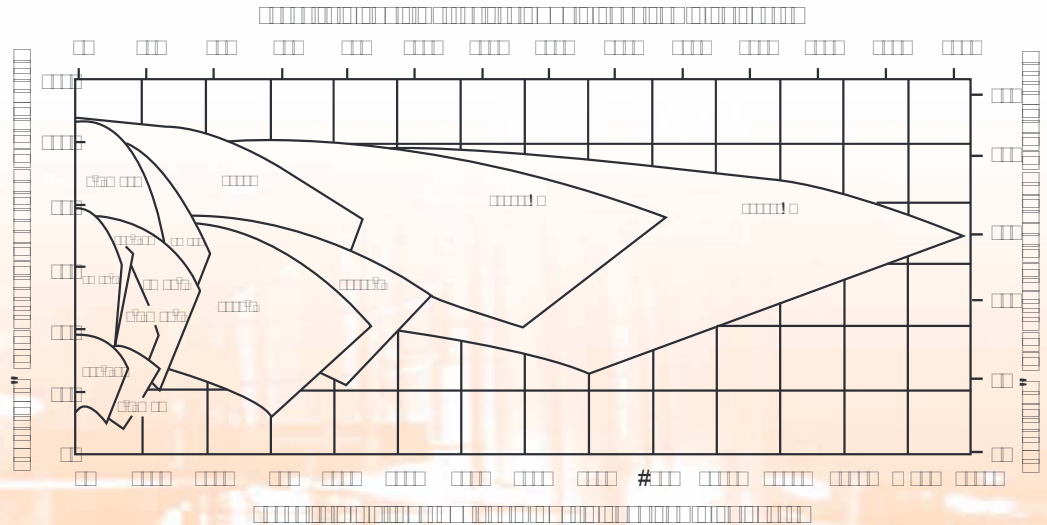
Given the appropriate consideration, the pumping of hot water does not have to be a problem. Almost any centrifugal pump can handle water in the 200°F (93°C) to 250°F (121°C). Beyond that range, however, there are many issues that must be evaluated in order to obtain the proper pump for a particular application or system. The main issues include the mechanical design of the pump, working pressure limits of the pump, and mechanical seal selection. With maximum allowable pumping temperatures of 320°F (160°C) for the RWA2096 pumps, and 400°F (204°C) for the RWA4166 and RWA4206 pumps, the Series RWA is uniquely designed to withstand the above-referenced issues, and is an ideal choice for applications that include, but are not limited to, boiler feed, steam condensate return, HVAC, and heat transfer.

HEAD/CAPACITY RANGE CHARTS

Two Pole Motor



Four Pole Motor



WORKING PRESSURE VS. PUMPING TEMPERATURE

