





Thermal Oil and Hot Water Centrifugal Pumps

ALLHEAT®

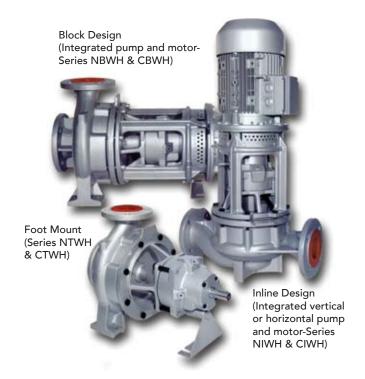
ALLHEAT® Series Centrifugal Pumps

Your pumping requirements demand safe, reliable transfer of high temperature materials including heat transfer fluids and hot water without the need for costly auxiliary cooling or expensive shaft sealing systems.

The ALLHEAT® series centrifugal pump was designed specifically for safe pumping of hot fluid medias. This versatile and universally applied pump series offers the best technical solution at an excellent price for pumping mineral and synthetic thermal oils at temperatures up to 660°F or hot water up to 400°F. The main features this product brings to the marketplace include:

- Low Viscosity Capability (0.2 centistokes min.)
- Safety Packing Rings to isolate contaminates
- Excellent Price/Performance Ratio
- Robust mechanical design with stiffening ribs
- Patented large oil reservoir for the mechanical seal including a patented seal chamber gas venting system
- No additional cooling required for the seal chamber or bearings
- Interchangeable internal parts for foot mounted, block and in-line designs
- High efficiency impeller/casing combination
- Available with balanced or unbalanced mechanical seals
- Insert kits available to upgrade older NTT, CTT series thermal oil pump designs
- Long life and low maintenance sleeve in-board journal bearings
- Long life, permanently greased, sealed outboard roller bearing
- Double cardanic couplings for high temperature misalignment protection and ease of insert removal





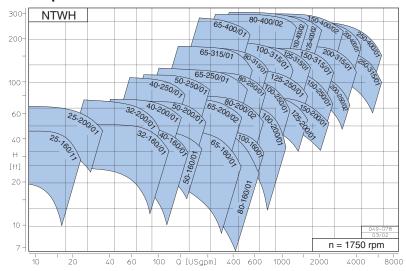
The ALLHEAT® concept is also available in a space saving block and in-line design. The drive motor is flange mounted directly to the pump. The ALLHEAT® in-line pump can also be simply installed into the piping system without any need for a separate support.

- Available in foot mount pump-to-motor (NTWH or CTWH) or integrated pump to motor designs (NIWH or CIWH). (NBWH or CBWH) as shown above.
- Integrated pump-motor design (NIWH or CIWH). (NBWH or CBWH), includes an integrated seal chamber, cooling fan, and integrated motor shaft coupling
- All pumps are available in two different shaft and journal bearing arrangements:
- Carbon journal bearing on a steel shaft with a non-balanced mechanical seal for thermal oil viscosities as low as 0.2 centistokes and temperatures up to 660°F or for hot water up to 360°F
- Sintered Silicon Carbide (SSiC) journal bearings and balanced mechanical seal for hot water applications exceeding 360°F to as high as 400°F or for highly contaminated thermal oil applications

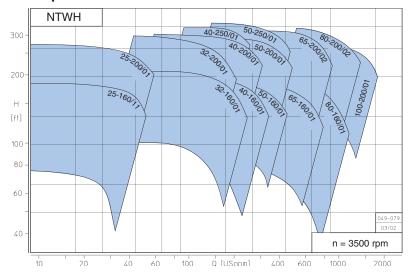
ALLHEAT® pumps have been rigorously tested during continuous factory tests carried out on ALLWEILER's thermal oil and hot water test stand and during practical tests carried out in selected customer's plants since 2000 and 2001 respectively.

ALLHEAT® Design

1750 rpm Performance Curves



3500 rpm Performance Curves

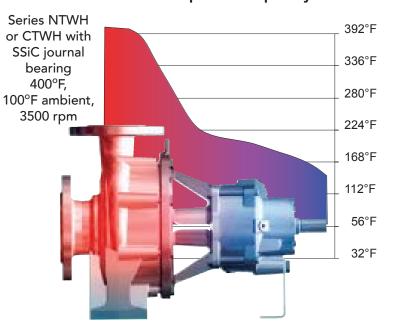




Thermal Oil Temperature Capability Curve

Series NTWH or CTWH with carbon journal bearing at 600°F, 100°F ambient, 3500 rpm 392°F 212°F 122°F 212°F 32°F

Hot Water Temperature Capability Curve



ALLHEAT® Foot Mounted Design NTWH, CTWH

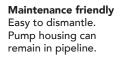
NTWH OR CTWH

The ALLHEAT® series was particularly designed for the safe pumping of hot media.

This pump offers the best technical solution at an excellent price for pumping thermal oil at temperatures up to 660°F or hot water up to 400°F.

Pressure resistant housing parts made from cast iron. NTWH 150# raised face flanges dimensionally compatible with ANSI B 16.2.

CTWH 300# raised face flange also compatible with ANSI B 16.2.

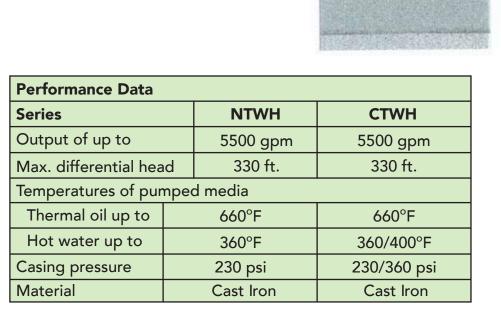


Safety Gland

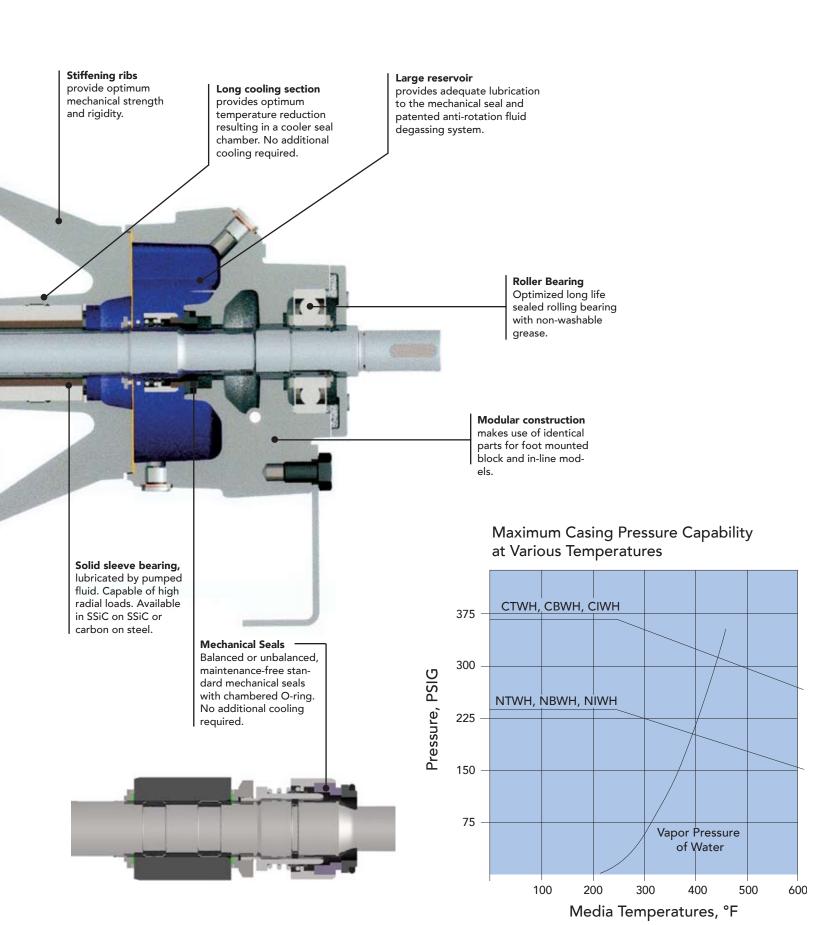
prevents contamination from entering the sleeve bearing and the mechanical seal.

Hydraulically balanced impellers minimize axial thrust.

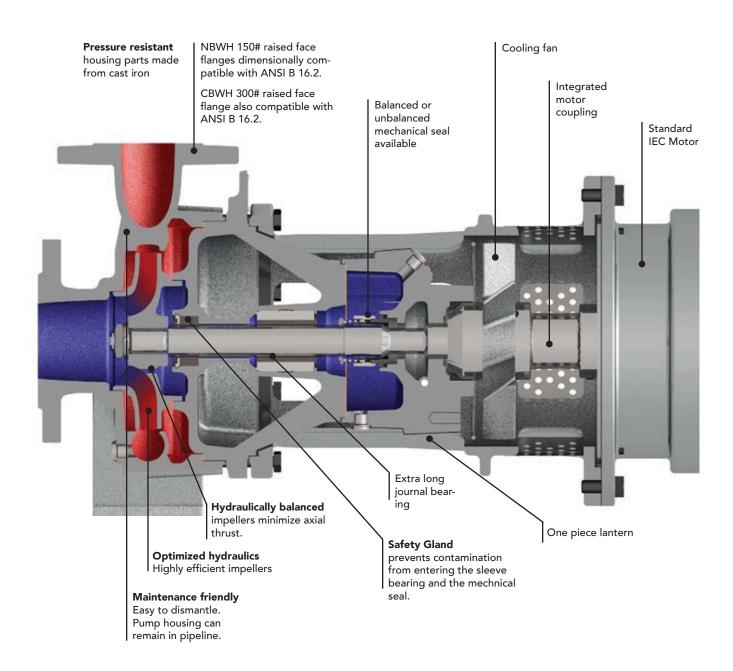
Optimized hydraulics
Highly efficient impellers



ALLHEAT® Foot Mounted Design NTWH, CTWH

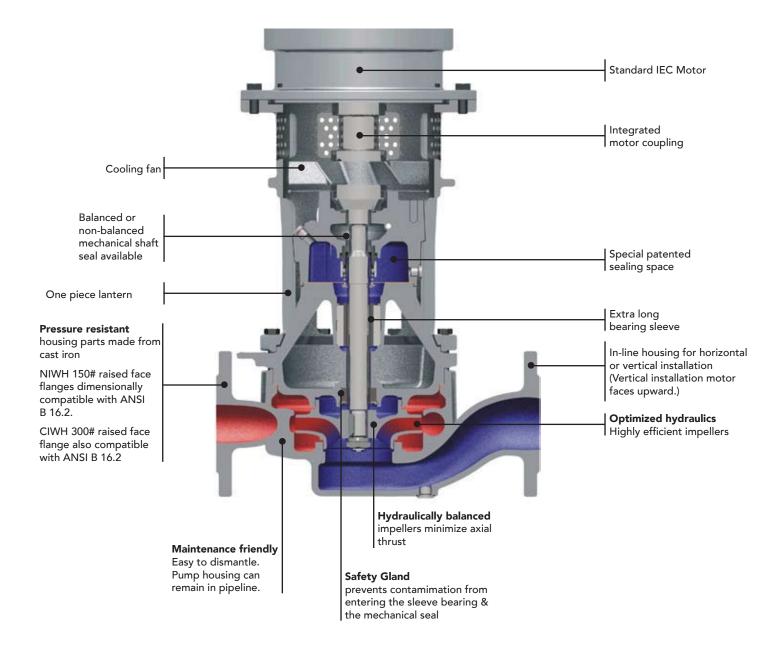


ALLHEAT® Block Design NBWH, CBWH



Performance Data				
Series		NBWH	CBWH	
Output of up to		1200 gpm	1100 gpm	
Max. differential head		300 ft.	205 ft.	
Temperatures of pumped media				
Thermal oil up to		660°F	660°F	
Hot water up to		360°F	360/400°F	
Casing pressure		230 psi	230/360 psi	
Material		Cast Iron	Cast Iron	

ALLHEAT® In-Line Design NIWH, CIWH



Performance Data				
Series	NIWH	CIWH		
Output of up to	970 gpm	460 gpm		
Max. differential head	300 ft.	190 ft.		
Temperatures of pumped media				
Thermal oil up to	660°F	660°F		
Hot water up to	300°F	360/400°F		
Casing pressure	230 psi	230/360 psi		
Material	Cast Iron	Cast Iron		



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