

APPLICATIONS PUMPS



OPERATION:

All metal cuttings, oils and dirt must be removed from compressor castings before assembly. This can be a troublesome and time consuming cleaning process. Thermo King Mfg. Co. uses a specially designed machine to clean the machined holes completely and efficiently.

The single cylinder casting has 39 or 54 blind holes, and the custom built wash cabinet has 39 or 54 high pressure nozzles precisely located. The castings are placed in the cabinet on two locating pins which assure that all holes are properly aligned with the nozzles. As the door of the unit is closed, it starts a seven-second timed wash cycle. The fluid used to wash the castings is ambient water with approximately 3% rust inhibiting solution. The supply of water and inhibitor is held in the tank below the cabinet. After the wash cycle, the water is collected in a tray and runs back to the storage tank. A grill screen filters the water on its way back to the tank. The supply line to the pump is about two inches above the bottom to avoid drawing trash from the bottom of the tank. The inlet line to the pump has 200 mesh filter as a final assurance no trash gets into the pump.

There is a high pressure solenoid valve in the line connected to the timing-cycle and wired in series with a micro switch on the cabinet door. The micro switch shuts off flows to the cabinet if an operator inadvertently opens the cabinet during a wash cycle. During normal production runs, they might be running either single cylinder units or two cylinder units. A manual valve is used to direct flow to one cabinet or the other.

CLEANING COMPRESSOR CASTINGS

File No. 166

Section 6

PROBLEM:

Cleaning blind holes drilled and tapped in compressor castings.

SOLUTION:

Install a high pressure cleaning system to flush metal cuttings etc. from the castings.

SPECIFICATIONS:

CAT PUMPS Model.....	*2520
Pressure	425 PSI
Flow (1/3 GPM per nozzle)	13-18 GPM
Temperature	Ambient
Fluid	Water and Inhibitor
Duty Cycle.....	Intermittent
Drive	7.5 H.P. Electric Motor

*Alternate CAT PUMP model 3520 plunger pump.

BENEFITS:

- More efficient cleaning process.
- Requires less man hours.
- Reduces water consumption
- Eliminates potential production problems.

“Customer confidence is our greatest asset”

Products described hereon are covered by one or more of the following U.S. patents 3558244, 3652188, 3809508, 3920356, 3930756 and 5035580

Aug 1999 8940

World Headquarters

CAT PUMPS

1681 - 94th Lane N.E. Minneapolis, MN 55449-4324

Phone (612) 780-5440 — FAX (612) 780-2958

e-mail: sales@catpumps.com

www.catpumps.com

International Inquiries

FAX (612) 785-4329

e-mail: intlsales@catpumps.com



The Pump with "Nine Lives"

CAT PUMPS (U.K.) LTD.

1 Fleet Business Park, Sandy Lane, Church Crookham, Fleet
Hampshire GU13 0BF, England

Phone Fleet 44 1252-622031 — Fax 44 1252-626655

N.V. CAT PUMPS INTERNATIONAL S.A.

Heiveldkens 6A, 2550 Kontich, Belgium
Phone 32-3-450.71.50 — Fax 32-3-450.71.51

e-mail: cpi@catpumps.be www.catpumps.be

CAT PUMPS DEUTSCHLAND GmbH

Buchwiese 2, D-65510 Idstein, Germany
Phone 49 6126-93030 — Fax 49 6126-930333
e-mail: catpumps@t-online.de www.catpumps.de