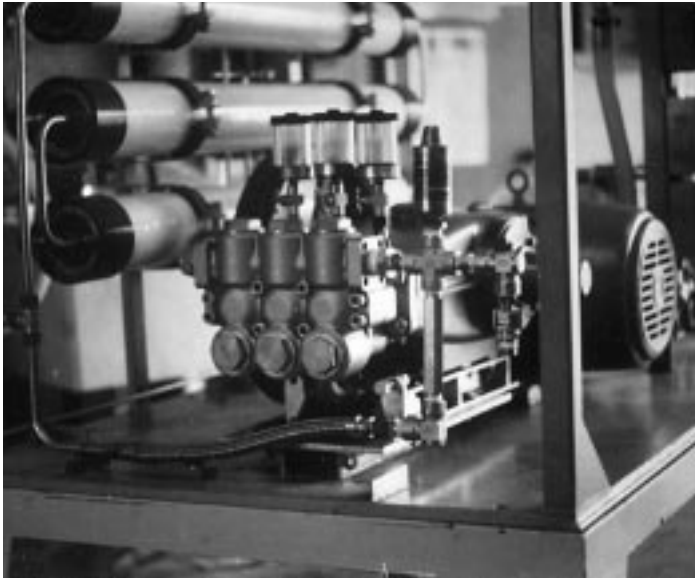


# APPLICATIONS PUMPS



## OFFSHORE OR ISLAND SUPPORT REVERSE OSMOSIS SYSTEMS

File No. 62

Section 8

### PROBLEM:

Offshore oil rigs, large ocean vessels and remote islands need economical system to convert seawater to fresh drinking water.

### SOLUTION:

A Reverse Osmosis system with a CAT PUMP providing a consistent, pressurized flow to a special membrane results in a processed, purified water. This system eliminates the need to store quantities of water, requires limited energy and delivers a consistent quantity of pure water upon demand.

### OPERATION:

The stainless steel model 3521 plunger pump provides a smooth quiet continuous fluid delivery in offshore reverse osmosis (RO) installations.

RO has become an integral part of offshore drilling providing fresh water for a variety of platform and equipment cleaning and maintenance functions. RO has eliminated the need to store large quantities of fresh water. With the increased availability of fresh water, better and more frequent cleaning is performed, thereby increasing worker safety and reducing equipment failure and costly downtime. RO provides fresh water used in cooling to keep equipment running efficiently. In addition to these advantages, RO requires less space and energy than other filtration processes such as distillation.

### SPECIFICATIONS:

CAT PUMPS Model.....	*3521
Pressure.....	800 PSI
Flow.....	12-23 GPM
Temperature.....	Ambient
Fluid.....	Salt Water
Duty Cycle.....	Continuous
Drive.....	10 H.P. Electric

\*For single or multiple pump systems alternate CAT PUMP models 3831 or 6861.

### BENEFITS:

- Continuous duty operation and simple periodic maintenance.
- Corrosion resistant pump construction of 316 Stainless Steel.
- Compact and lightweight for portability and space savings.
- Energy efficient substantially reducing operating costs over other methods such as distillation.
- No heat process eliminates expensive cooling of processed water.

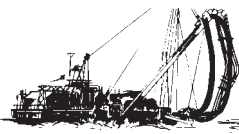
### Typical Offshore Applications for Reverse Osmosis



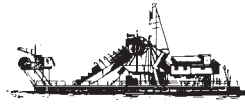
Offshore Drill Rigs



Commercial Fishing Boats



Pipe Laying Barges



Oil Well Dredges



Tankers – Cargo Ships



Island Support

*“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