



ENVIRONMENTAL TECHNOLOGY

## COMPACT-107™



### FEATURES

**LIGHT WEIGHT COMPACT DESIGN**

**SYSTEM CAN FEED A NUMBER OF PUMP APPLICATIONS**

**MODULAR DESIGN**

### BENEFITS

- CAN BE INSTALLED EASILY ON SITE
- SAVES SPACE AND THE EXPENSE OF PURCHASING MULTIPLE SYSTEMS TO FEED INDIVIDUAL PUMP APPLICATIONS
- ENABLES INSTALLATION IN DIFFERENT ZONED ENVIRONMENTS AND ENHANCED CONTROL OF THE SEAL ENVIRONMENT WITH THE ADDITION OF SPECIFIC INSTRUMENTATION

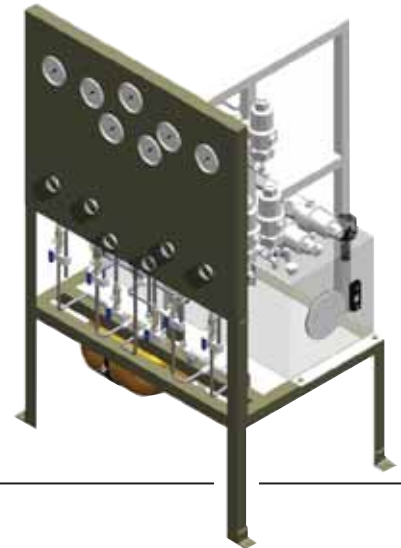




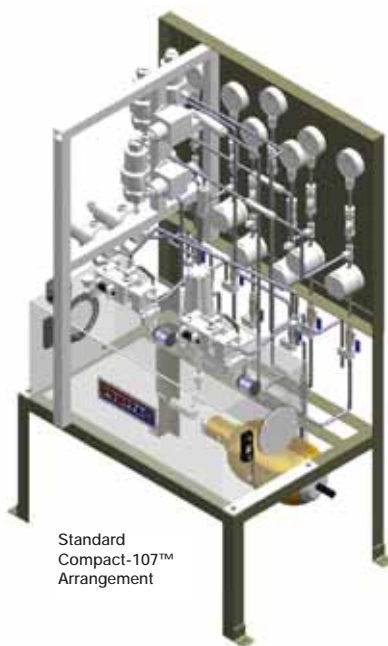
The innovative AESSEAL® Compact-107™ operates by generating a localized pressurized barrier fluid circuit. This unique PUMPPAC™ System combines the benefits of API Piping Plans 53A/53B/54 and feeds barrier fluid to a number of seal support systems which control the environment at the mechanical seal.

Localized seal control is enhanced through the ability to supply each seal support system with different pressures due to individual pressure regulators. The Compact-107™ does not run continuously, only activating when the pressure transmitter detects a drop in circuit pressure (*the circuit contains an accumulator to maintain pressure*).

The modular design of the system means that it can be adapted to various pump applications with the addition of different instrumentation.



### AESSEAL® Compact-107™ - Key Features & Benefits



Standard Compact-107™ Arrangement

#### Product Features

- **Large Tank:** Large capacity for barrier fluid (*tank size is decided from application specifications*).
- **Individual Pressure Regulators:** Control the pressure supplied to each seal support system.
- **Individual Panel Mounted Pressure Gauges:** Barrier fluid pressure supplied of each mechanical seal can be monitored from one location.
- **Accumulator:** Supports the maintenance of the pressure in the circuit.
- **Pressure Transmitter:** Monitors pressure in the circuit and starts the PUMPPAC™ if pressure needs to be boosted to the desired operating level.
- **Level Switch (Optional):** Located inside the tank to warn of low barrier fluid level.
- **Standby Pump (Optional):** Back-up to the primary pump, cuts in automatically.

#### User Benefits

- No electrical supply needed for pump (*air driven version*).
- Smaller footprint for multiple systems (*700mm L x 1000mm W x 1600mm H*).
- Large barrier fluid storage capacity.
- Virtually API Plan 54 flow rates with new technology pumping scroll.
- Seal loop will thermosyphon with heat exchanger if set-up correctly.
- One point atmospheric top-up.
- One point level monitoring.
- Reduce man-management required.
- Intermittent running of driver (*only for top-up*).
- Reduced weight (*180kg approx*).
- Greatly reduced purchase cost on multiple double seal pump purchases or conversions.

#### BARRIER & BUFFER FLUID SYSTEMS FOR USE WITH DOUBLE MECHANICAL SEALS

AESSEAL® supplies an extensive range of barrier and buffer fluid systems for use with double mechanical seals. Wherever possible AESSEAL® prefers to supply both the seal and the system. In addition the company will suggest suitable barrier or buffer fluids for most applications, based on extensive field experience.

AESSEAL® accepts no responsibility for any problems associated with system design, installation, operation, or the use of an unsuitable barrier or buffer fluid, where the fluid, seal or any part of the system have not been specified and/or supplied by AESSEAL®

THIS DOCUMENT IS DESIGNED TO PROVIDE DIMENSIONAL INFORMATION AND AN INDICATION OF AVAILABILITY. FOR FURTHER INFORMATION AND SAFE OPERATING LIMITS CONTACT OUR TECHNICAL SPECIALISTS AT THE LOCATIONS BELOW.



INVESTOR IN PEOPLE



USE DOUBLE MECHANICAL SEALS WITH HAZARDOUS PRODUCTS. ALWAYS TAKE SAFETY PRECAUTIONS:

- GUARD YOUR EQUIPMENT
- WEAR PROTECTIVE CLOTHING



WARNING

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**Our Purpose:** *'To give our customers such exceptional service that they need never consider alternative sources of supply.'*

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