

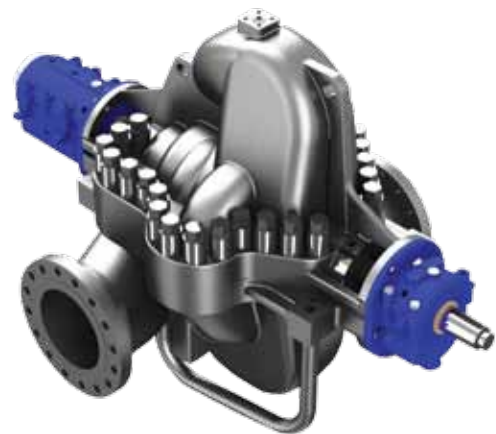
# CUP-BB3 Desal

MULTI-STAGE, AXIALLY SPLIT PUMP

## PUMP OVERVIEW

The ClydeUnion Pumps CUP-BB3 Desal is a multi-stage, axially split case pump that provides a very efficient solution for your high pressure reverse osmosis needs:

- Designed to exceed the rigorous requirements of API 610
- Optimum NPSH performance
- Enhanced efficiency achieved through additional polishing in high velocity areas of casing and use of composite wear rings
- CUP-BB3 Desal can be combined with energy recovery systems
- Minimum through life costs along with maximum reliability in service
- Designed for both 50Hz and 60Hz markets



## TYPICAL APPLICATIONS

- Reverse osmosis desalination

## TECHNICAL DATA

**Capacity:** up to 3,000 m<sup>3</sup>/hr / 13,200 USgpm

**Delivery head:** up to 800 m / 2,660 ft

**Speeds:** up to 3,600 rpm

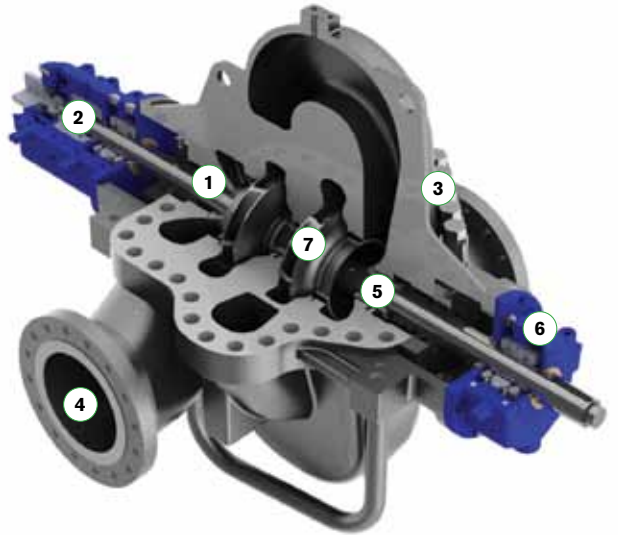
**Flange drilling:** ANSI or BS

MATERIAL SPECIFICATION	CASING	IMPELLER	SHAFT
SPEC D2	Super Duplex	Super Duplex	Super Duplex

*Please Note: A wide range of additional materials are available on request*

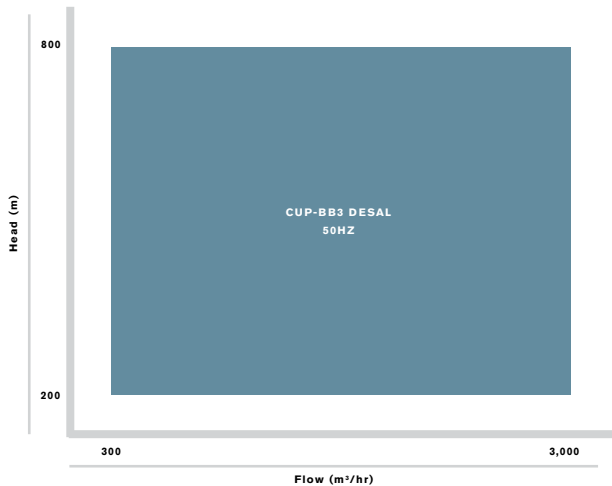
## FEATURES + BENEFITS

- 1 **Wear options**  
Casing wear rings are supplied with positive location and are pinned for anti-rotation at split line
- 2 **Ease of maintenance**  
CUP-BB3 Desal offers a complete rotor change-out that can be completed in under eight hours as well as complete balancing inspection without rotor disassembly
- 3 **Axially split casing**  
Hydraulic re-rates available within existing casing. Minimises radial thrust load for optimised bearing and seal life
- 4 **Double volute design**  
Minimises radial thrust loads for optimised bearing and seal life
- 5 **Optimum seal performance**  
Cartridge seals are designed for seawater applications
- 6 **Self contained bearings**  
360° mounting gives class leading vibration levels
- 7 **Impellers**  
Back-to-back design minimises axial thrust. Impellers are individually secured and are precision cast

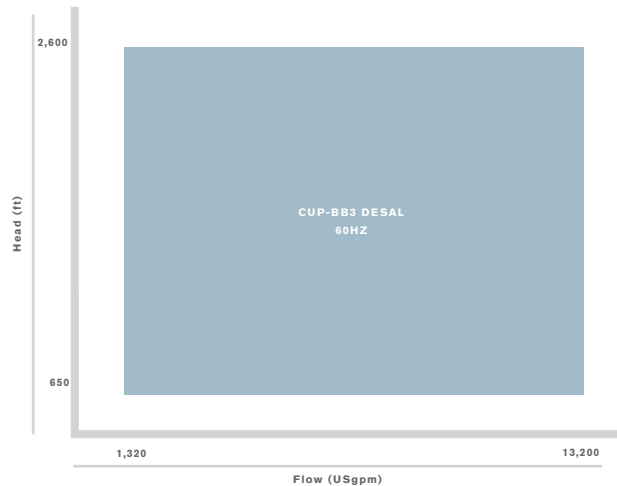


## RANGE COVERAGE CHARTS

50HZ RANGE CHART



60HZ RANGE CHART



These charts cover the standard pump range. Other engineering designs exist for extreme applications

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