CombiSump

Sump pump



CombiSump Centrifugal sump pump

CombiSump is the sump pump solution for thin liquids. The pump is part of Johnson Pump's Combi-system, a modular programme of single stage centrifugal pumps with a high degree of interchangeability of parts between the different pump constructions.

The CombiSump is a range of centrifugal sump pumps, with the pump casing submerged into the liquid and a dry motor construction.

The hydraulic parts of these submersible pumps consist of the pump casings and impellers of our CombiChem and CombiNorm pumps, its hydraulic field meeting ISO 2858/DIN 24256 and DIN 24255.

Special executions meeting API 610 standards are optional to above standard executions.

The pump is driven by a customer specified or standard IEC flange electric motor 'V1' placed on a lantern piece mounted on the base plate. The power is transmitted through a flexible coupling and an intermediate shaft.

The pump casings' pressure flange is connected to a discharge connection on the base plate.



CombiSump

Benefits

- Available in several materials
- High pump efficiency
- Suited for a wide span of duties
- Easy maintenance
- Compact, space saving construction
- Low maintenance cost

From know-how to finding solutions

General industry CombiSump pumps can be used for all kinds of sump duties. Another known application is pumping cooling water when river or lake water is used.



Petrochemical industry

CombiSump pumps are often used for draining waste water collecting basins. Typical process duties are e.g. drain pump or hydrocarbon condensate.



Off Shore

In Off Shore industries CombiSump pumps are used for several duties where it is desireable to have a "dry" motor construction.





Dry part

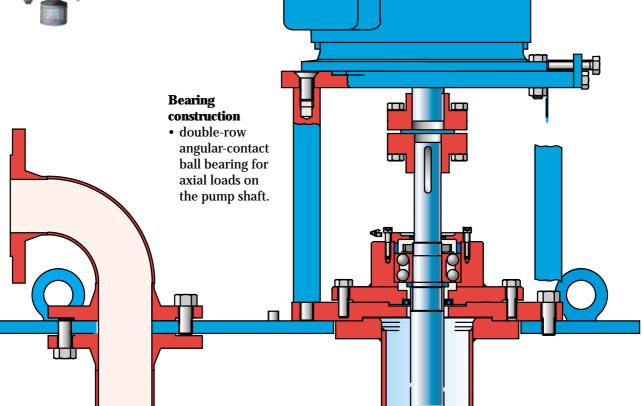
Features and

Electric motor

- mounted on a flange resting on supporting rods or lantern piece
- accurate alignment by means of adjusting bolts
- customer specified or standard IEC flange motor 'V1'

Coupling

- standard fitted with elastic coupling
- optionally available with membrane coupling



Delivery connection

- placed on the baseplate
- flanges according to ISO 7005 PN 16
- flanges according to ANSI B16.5 150 lbs
- horizontal or vertical position possible

Baseplate

- standard version is a rectangular plate
- round flange shaped plate is also possible
- can be adapted to the size of the pit according to customer specifications

benefits

Submersible part

Column pipe

- situated below the baseplate
- consisting of one or more parts
- connects the pump casing with the baseplate
- · protects the shaft

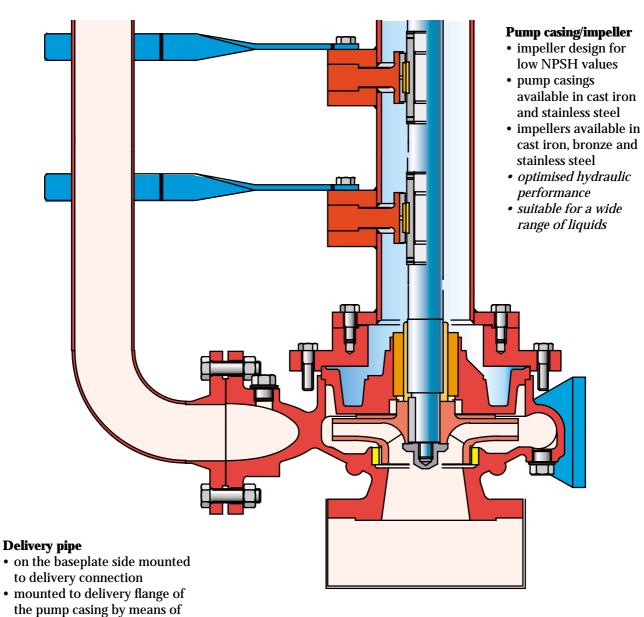
bend

- supports the intermediate bearings if applicable
- sump depth according to customer specification

Slide bearings

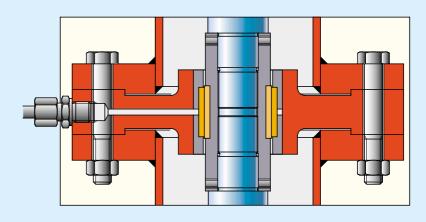
- pump shaft provided with slide bearings
- number depending on the sump depth of the pump shaft
- can be provided with grease- or liquid lubrication



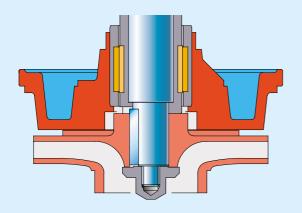


Bearing

- In the part below the baseplate (the 'wet' part) the pump shaft is provided with slide bearings.
- The number of slide bearings depends on the length of the pump shaft and the rotating speed.
- The slide bearings can be provided with grease- or liquid lubrication.

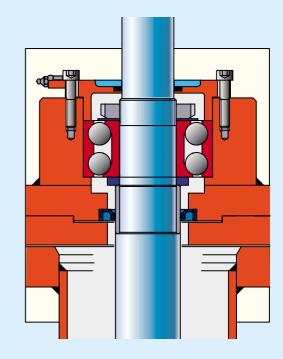


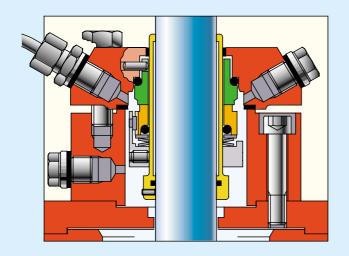
• The part above the baseplate (the 'dry' part) is provided with a double-row angular-contact ball bearing for the pump shaft.

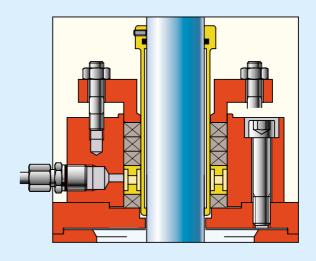


Shaft sealing

- At the location of the shaft passage the baseplate is provided with a shaft sealing. Standard this is an oil baffle.
- A mechanical seal or gland packing is also possible, for example to prevent harmful odours from emerging into the atmosphere.



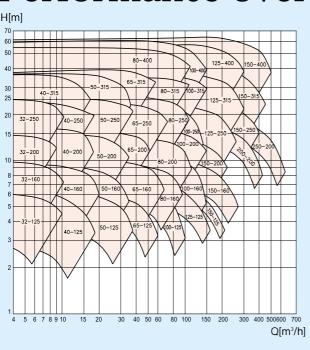


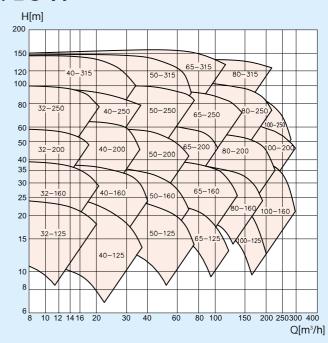


Technical data

Max. capacity800 m³/hMax. head160 mMax. working pressure16 barMax. temperature160 °CMax. speed3600 rpm

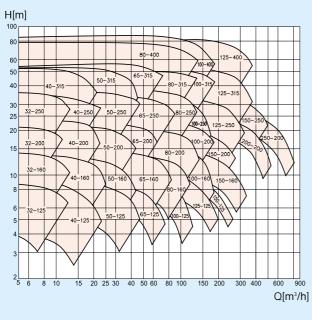
Performance overview

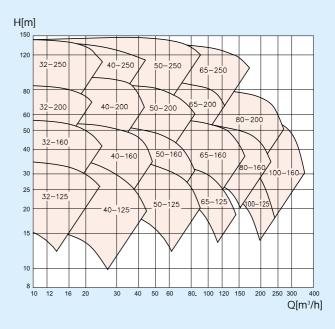




1500 rpm







1800 rpm

3600 rpm

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