

Fact Sheet BLOWER ANTI-HEELING Issue Date 31.08.2018

SYSTEM

The Hoppe Blower Anti-Heeling System is designed for fast loading and discharging with high flexibility and short reaction time, supporting heavy load operations. These systems can be combined with a U-Tank Roll-Damping System to enable the roll damping tank to be used for heel compensation and/or ice-heeling purposes.

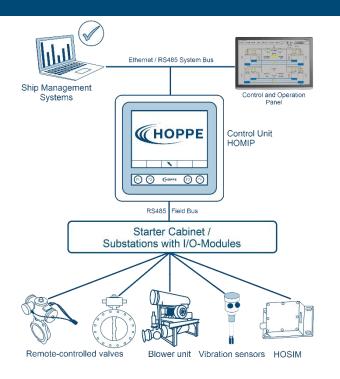
The closed system consists of one or more side tank pairs, which are connected with air pipes on the top and water cross pipes close to the bottom. The compressed air from the blower unit(s) is used to shift the water between the side tanks and maintain the water level during operation. The air at opposite side to which the water is deflected is led to atmosphere via exhaust silencer.

The system status pressures and levels are monitored by in-house designed sensor units. All system data are processed in the HOMIP PLC and displayed on the larger touch screens of the remote operation panels. The control system is designed for either automatic or manual operation and variable flow rates for Load Moment Control for on- and offshore operations.



FACTS, FEATURES & DIMENSIONS

- one blower unit
 200-1,800tm/min compensation rate
 500-4500m³/h flow rate
- several parallel operated blower units for higher flow and compensation rates
- Unlimited change of water flow direction
- Fast reaction time for immediate counter action against unsymmetrical loads
- Systems monitoring and control via powerful Soft-PLC unit and Panel-PC
- Tank sensors for water level and flow measuring
- Control and measuring devices are class type-approved





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TECHNICAL DATA REMOTE-CONTROLLED VALVES

Working type

Double-acting, single-acting (various types, pneumatic and hydraulic)

Working locations

Dry, temporarily submerged

Valve range

DN50-DN500

Material

Aluminum

Emergency functions Close function avail. for single-acting



TECHNICAL DATA BLOWER UNIT

Power consumption 12-250 kW

Voltage 230-690 V

Frequency 50Hz/60Hz

Synchronous speed 1,500RPM (50Hz) / 1,800RPM (60Hz)

Suction rates 10-125 m³/min



TECHNICAL DATA LEVEL SWITCH & LEVEL SENSOR

Level switch features Flameproof, chemical duty

Level switch degree of protection

IP66

Level sensor measuring range

Level sensor output signal

Ombar – 4000mbar

Analog 4...20mA, or Bus signal RS485 half-duplex

Level sensor degree of protection IP 68; submersible up to 10 bar



TECHNICAL DATA HOSIM 2

Measuring principle Acceleration- and temperaturecompensated position measurement

Roll/Pitch angle accuracy (static) 0.07° RMS

List/Trim angle accuracy (5 min. 0.09 average)

0.09° RMS

Linear temperature influence (angles) ± 0.02°/°C

Interfaces RS422, RS485, Ethernet

Housing and protection class

Aluminum, IP68

