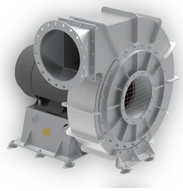
Centrifugal fans

HSV

The HSV is a high-pressure centrifugal fan that can be used both as supply and exhaust fans. Originally designed for marine use but has found a variety of applications in other sectors as well. The HSV is ideal for pressures up to 8000Pa and up to 95.000 m3/h airflow.



Standard sizes
125 – 500 mm

Air flow
200 – 45.000 m3/h

Static pressure
20 – 8.000 Pa

Engine power
0 – 5kW

Summary

Design

The fan is designed to straighten the air stream upwards.

Execution

The HSV fan can be produced in several types of material. The standard is painted sea water resistant aluminium. This gives a corrosion resistant fan and a spark proof design.

The fan can also be delivered completely (housing/impeller) manufactured in stainless steel (AISI316L).

Steel – either galvanized or galvanized and painted execution is delivered on request.

Impeller

The impeller is usually delivered in the same material as the fan housing where the standard is salt and ammonia resistant aluminium. The impellers are dynamically balanced.

The impeller can be delivered in four different types:

Type B: Backward, convex curved blades. The standard impeller. Cost effective with high efficiency.

Type F: Forward curved blades (Scirocco impeller). For applications where high air flows are required). Only for smaller fans.

Type Z: Backward, concave curves blades. Self-cleaning impeller, ideal for applications where dust or material can build up on the impeller.

Type R: Radial blades. Heavy duty impeller for transport applications (e.g. saw dust).

Motor

The motors are as standard squirrel-cage induction motors in marine execution. Motors are IP55 and insulation class F as standard.

Motor prepared for frequency converter is available on request.

The fans can also be equipped with EX motors class Exe (increased safety), Exd or Exde (explosion-/flameproof) or EXN motor.

Customizations

- Belt driven execution.
- With gas tight motor flange (for EX applications where motor can be placed outside hazardous area)
- With coupling drive
- With coupling drive and cooling wheel (air cooled) for high temperature applications
- Portable execution (only smaller fans)
- With water-, air- or hydraulic driven motor.

Accessories

- Vibration dampers
- Flexible connections (inlet / outlet)
- Counter flange (inlet / outlet)
- Protection grid (inlet / outlet)
- Flanged inlet
- Drain plug
- Inspection hatch
- Motor pedestal (required for heavy motors)
- Base frame / foundation
- Earthing plug for fan / motor pedestal
- Suction chamber on inlet
- Iris / regulating damper
- Diffuser on outlet

Gallery