

# **COOLED ELECTRIC MOTOR HOUSING:** >10% LIGHTER; 60 % THINNER CROSS SECTION

Greater cooling capacity of electric motors in a smaller space

## Application

Witzenmann's patented electric motor housing (EMH) yields high efficiency performance for liquid cooled motors. Its light weight, compact design, makes it superior to existing solutions on the market.

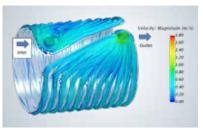
# Technical data

(Example: 250 mm active diameter and length)

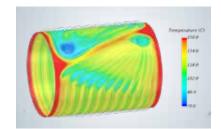
- Weight approx. 6.0 kg
- Radial approx. 4.0 mm layer on stator
- < 8 kW heat dissipation</p>
- Pressure drop ≤ 80 mbar
- Customized size to fit the application

## Advantages over conventional cast aluminum housings

- Higher cooling efficiency, compact design
- Higher potential torque in same packaging space due to thinner wall cross section.
- Homogeneous, high cooling capacity due to patented liquid through-flow design
- Lighter weight
- Leak tight without use of additional seals
- Improved efficiency of electric motors



Homogeneous flow distribution, no turbulences, pressure loss  $\Delta p < 80$  mbar possible



Homogeneous temperature distribution and high cooling capacity e.g. Tmax 102 °C at the water jacket with 8 kW heat dissipation and active diameter of 246 mm



Thin walled construction for better packing envelope

#### Witzenmann GmbH