

# Protected fans

against environmental influences

- Capable to fulfil special requirements for a broad range of applications
- Resistant to environmental influences, such as dust, splash water, humidity, spray water and salt fog
- Highly competent solutions for adapting fans to environmental conditions



### Moisture protection

Coated motor and printed circuit board protects against humidity and condensation.

### Type of protection: IP 54 / IP 68

In the type of protection IP 54, the motor and circuit boards are coated and therefore protected against spray water and moisture.

The type of protection IP 68 is important for ebm-papst products, as it ensures a high degree of protection for the encapsulated motor and electronic against foreign bodies and water, whilst protecting the user against potential hazards upon contact. Types of protection higher than IP 68 are possible upon request.

The available solutions could be different depending on the fan size. We would be glad to develop solutions tailored to the demands of your application.

### Salt fog protection

Salt fog is extremely demanding on the resistance of the product. ebm-papst makes use of technologies that protect fans and blowers from salt fog reliably and durably.

### Stainless steel bearings

Special bearings made of stainless steel provide additional protection.

### Type of protection – IP code

Protection against foreign bodies and accidental contact (first digit)		Water protection (second digit)	
X	No protection	X	No protection
1	Protection against foreign bodies > 50 mm (back of the hand)	1	Protection against dripping water or condensation
2	Protection against foreign bodies > 12 mm (finger)	2	Protection against dripping water, fans tilted 15° from vertical
3	Protection against foreign bodies > 2,5 mm (tool)	3	Protection against water spray up to 60° from vertical
4	Protection against foreign bodies > 1 mm (wire)	4	Protection against water spray from all sides
5	Protection against dust in harmful quantities	5	Protection against low-pressure water jets
6	Dust-proof	6	Protection against high-pressure water jets
		7	Protection against temporary submersion (15 cm - 1 m)
		8	Protection against continuous submersion