



The World Leader of tailor-made Axial Fan Solutions

EFLOW



High-Efficient Axial Fan Systems



Flexibility with Existing Market Needs



High efficient axial fan **system Smart Pack**

- Two diameters available, 900mm & 1250mm
- Further sizes > 900mm are planned
- 12 standard versions available in series



Customized motor/impeller solutions

- Multi-Wing impellers, 250mm to 1.600mm
- Customized versions, no standard
- Project related business



INTRODUCES SMARTPACK

EC and AC axial fan systems for
medium and high pressure

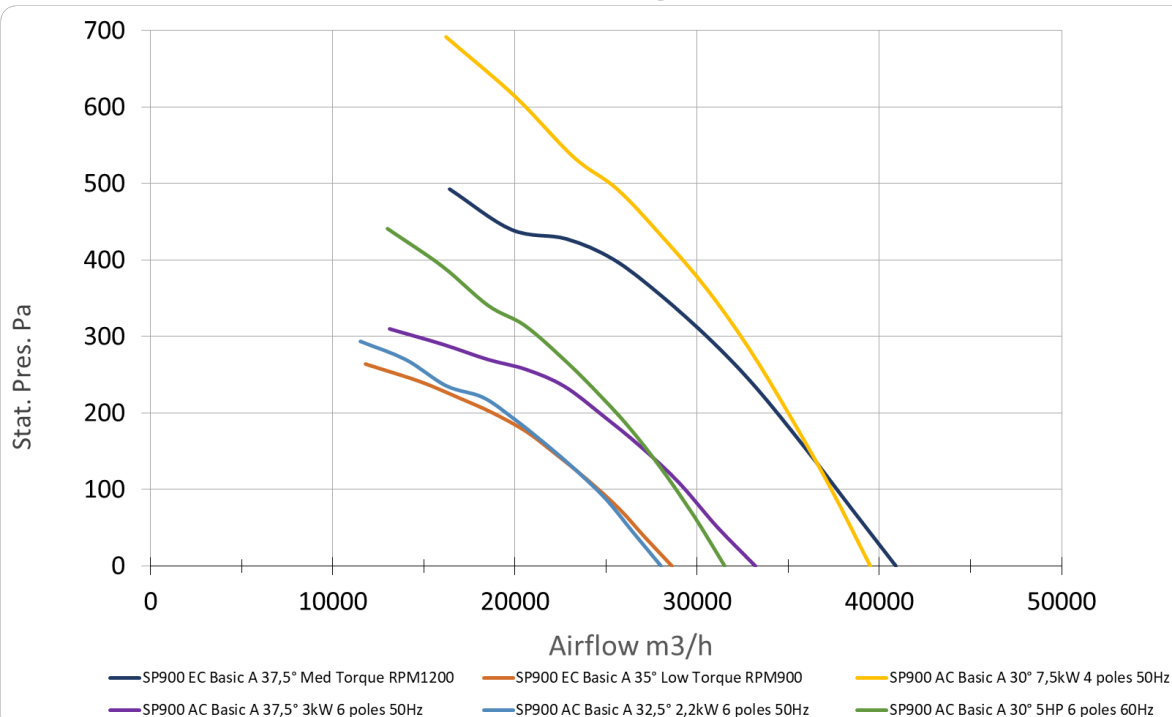


SMARTPACK

-  Axial fan system for medium and high pressure range
-  Highest efficiency and lowest noise emissions
-  Robust design to meet industrial requirements
-  Plug and Play
-  Available with high-efficient EC or AC motors



SMARTPACK Performance Range – Size 900

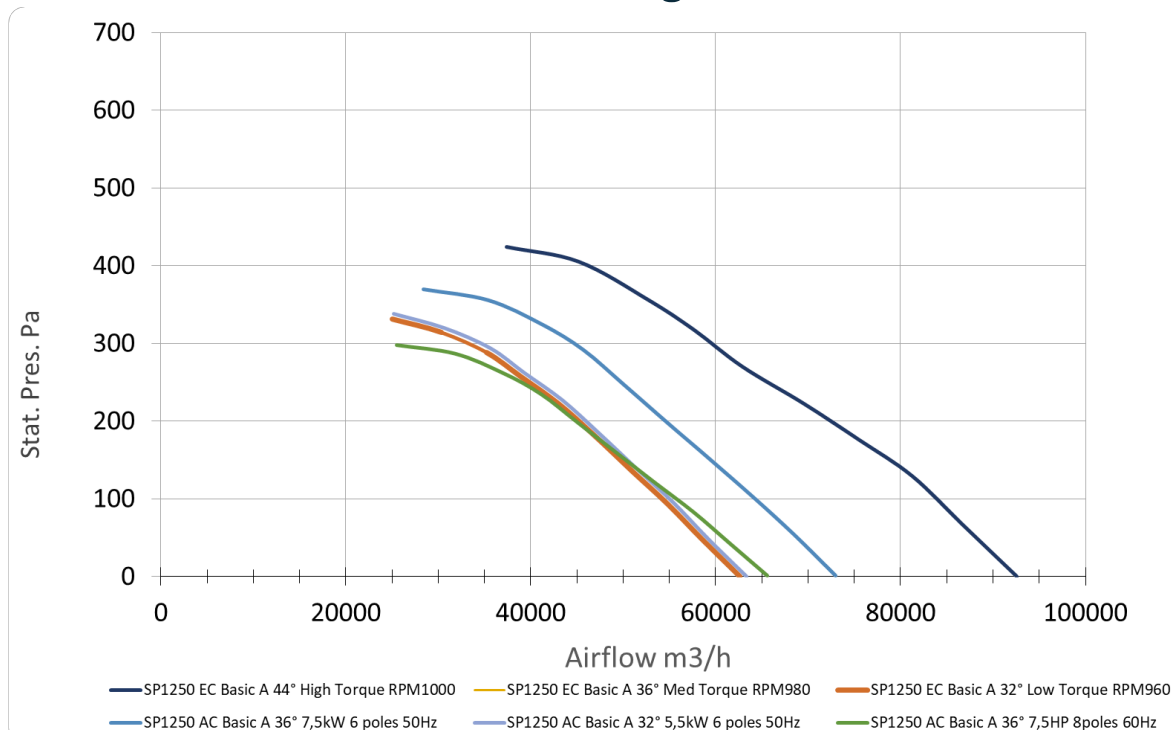


Power rating:

EC **2.3kW** to **6.2kW**

AC **2.6kW** to **7.5kW**

SMARTPACK Performance Range – Size 1250



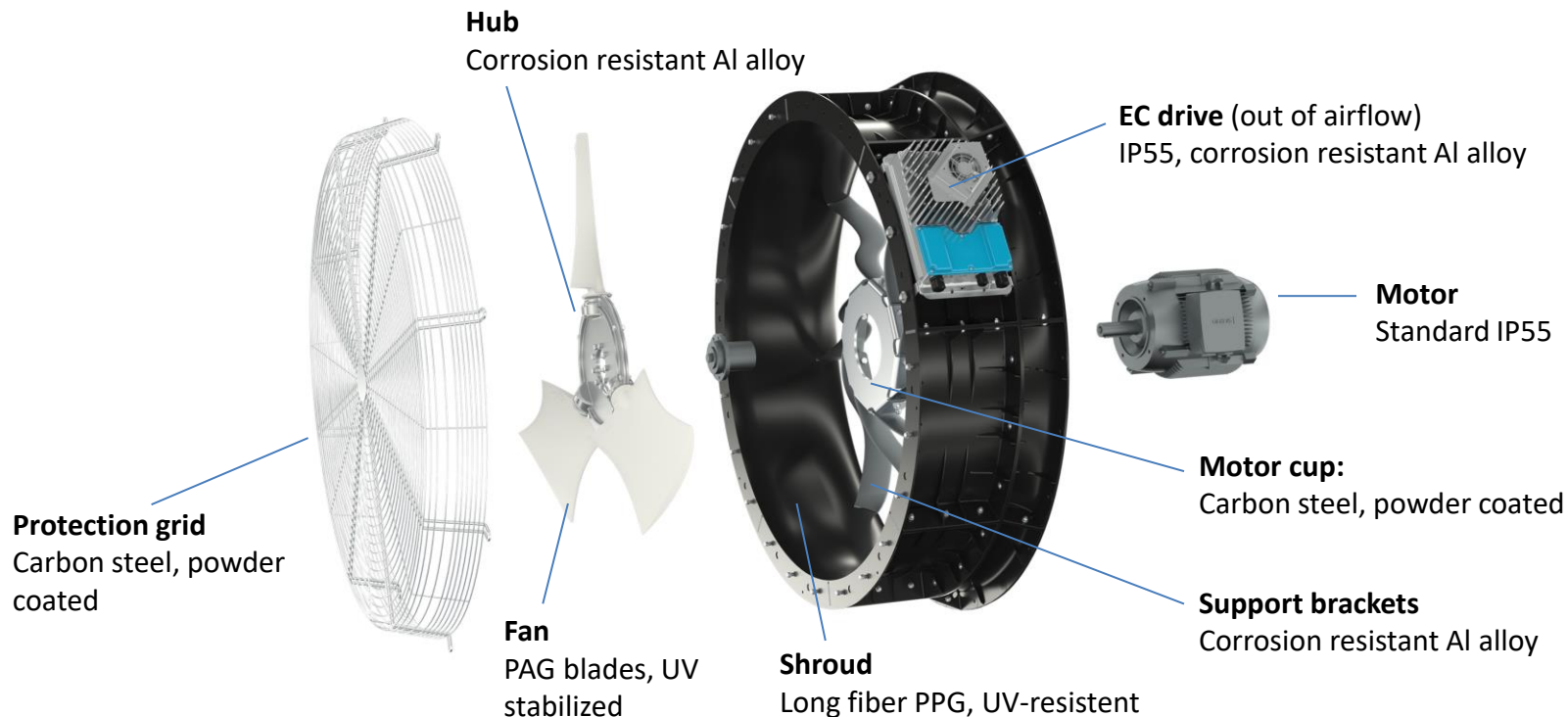
Power rating:

EC **5.5kW** to **12kW**

AC **5.7kW** to **7.7kW**

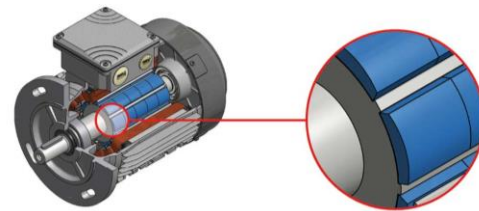


SMARTPACK – components (standard corrosion protection)

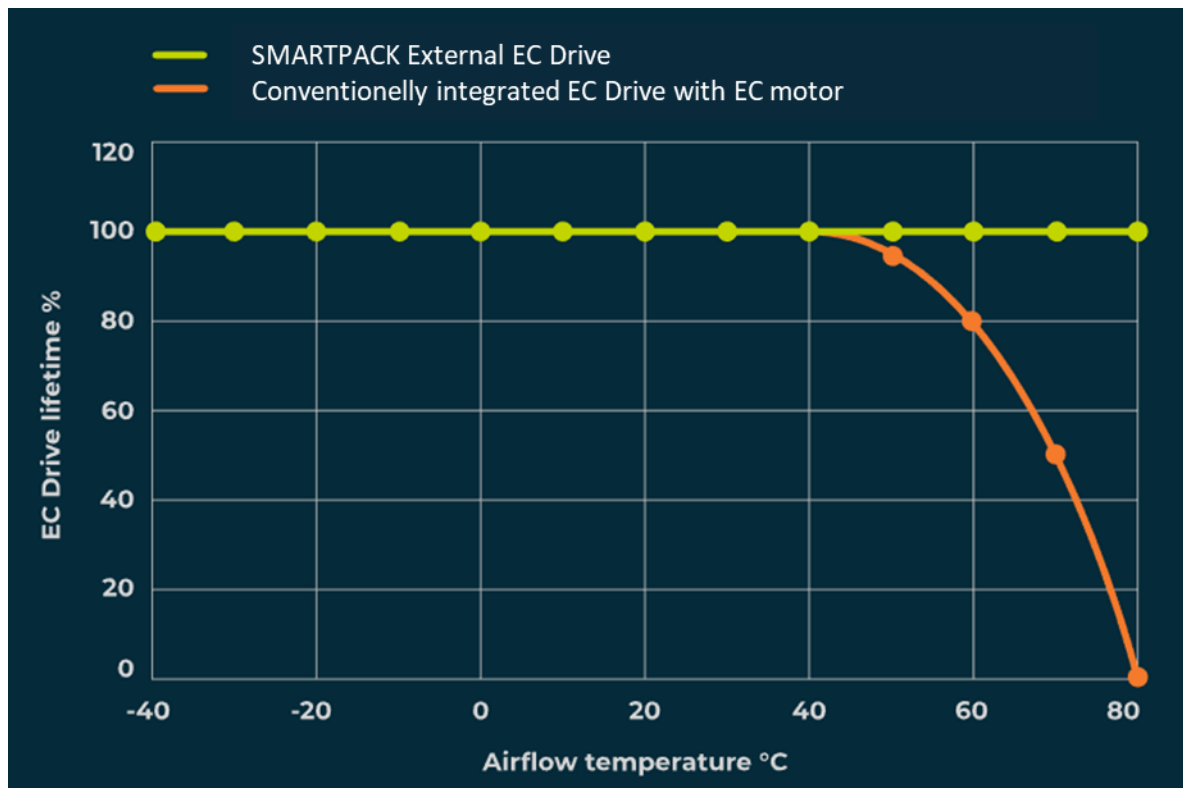


EC Permanent Magnet Motor (PM) + EC Drive

- Dust and humidity protection: IP55 standard, optional IP66
- Motor or electronics can be replaced and every single structural component
- Drive can be placed out of the airflow. Higher lifetime compared to integrated solutions
- 20% higher air performance compared to similar fan systems
- Temperature range (airflow): - 20°C/+65°C, optional -40°C or +80°C



SMPM Design
Surface Mounted
Permanent
Magnets



Standard industrial AC motor

- Dust and humidity protection: IP55 standard, optional IP66
- Motor and every single structural component can be replaced
- Robust standard motor design
- Efficiency compliant to IE3
- Temperature range (airflow): - 20°C/+60°C, optional -40°C or +80°C





WHY IS SMARTPACK™ SMARTER?



OPTIMISED

AERODYNAMIC DESIGN

Ensures high efficiency, low noise level up to 10dB(A) at 20% more volume and low energy consumption.



AC & EC MOTORS

Depending on the customers requirements AC and EC industrial motors are available



CORROSION PROOF

Minimized corrosion due to components made of thermoplastics and Aluminum which brings longer product lifetime and reduced weight



PLUG & PLAY

Plug and play solution which is optionally upgradeable for different customized needs. Motor & drive perfectly fit together

WHY IS SMARTPACK™ SMARTER?



MOTORS FOR TOUGH CONDITIONS

External EC drive can be placed outside the airflow

IP class up to 66



Replaceability

Easy change of components possible e.g. electronics or motor instead of complete fan replacement



Wide temperature range

Max. airflow temperature till +80°C possible



POWERFUL PERFORMANCE

AC airflow up to 73.000m³/h

EC airflow up to 92.600m³/h



INTRODUCES CUSTOMFAN

Engineering fan solutions



The CUSTOMFAN concept

- Fan packs for industrial applications
- Designed to fit in the customer's application – not vice versa
- Engineering and manufacturing based on specific customer requirements
- Usage of standard and special project designed components



Fan packs from 250mm up to 1600mm impeller diameter



Large range of Multi-Wing impellers



Standard AC or EC motors with support



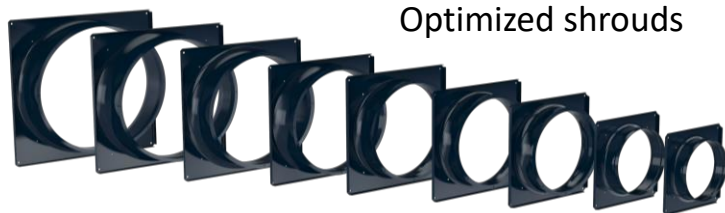
Shrouds



Protection grids

The CUSTOMFAN concept

- Impeller diameters from 250 mm to 1600 mm
- Shrouds manufactured for high precision, with customized materials and surface treatments
- AC motor range from 0.12kw to 15kW, IE1-IE3, B3, B14, B30
- EC motor range from 0.5kW to 7.5kW, integrated or external drive
- Motor IP classes from IP55 to IP66 possible
- Temperature range between -50°C and +250°C



EC motors



AC motors





CUSTOMFAN applications

Stationary applications



Wind power



Agriculture and livestock



Off road equipment



HVACR



Drying



CUSTOMFAN complete fan packs

Refrigeration &
Freezing



Radiators



Live stock ventilation



Comfort Ventilation



Why CUSTOMFAN?



MULTI-WING FANS
Probably the widest
range on the market



FAN SOLUTIONS
With modular and
customized components



AERODINAMIC DESIGN



GEOMETRICAL DESIGN
Adapting to customer
requirements



MOTOR ON DEMAND



FAST TRACK ENGINEERING
Homologation



OPTIMIZED LOGISTICS



PLUG & PLAY



**WIDE TEMPERATURE
RANGE**



**MATERIALS AND SURFACE
TREATMENTS**