

MIRUVENT™



Energy efficient
power roof ventilator with
intelligent control facilities

The power roof ventilator with smart solutions and intelligent control options

- ▶ Several sizes and variants with fan speed control and EC motors offer energy efficient operation
- ▶ The vertical air stream prevents fouling of the roof
- ▶ Intelligent control equipment with energy measurement
- ▶ Communication with the GOLD air handling unit and the external supervisory system

Swegon's new MIRUVENT power roof ventilator is available in several different sizes and with several different fan impeller and motor variants. The power roof ventilator can be selected for the best possible operating economy.

The outlet openings on both sides of the power roof ventilator are covered with self opening and self closing airstream operated dampers. This smart solution functions both as a weather guard and counteracts heat losses when the fan is stationary. The turbulence-free, vertical airflow protects the roof from fouling.

All the types of motors/motor controllers used are located outside the airflow. The AC motors cope with exhaust air temperatures of up to 120°C when operating continuously. AC motors with integrated frequency inverters and EC motors are designed for exhaust air temperatures of up to 40°C.

The casing is made of corrosion-resistant aluminium in Environmental class C4.

Roof ducts and connection spigots are available as accessories.

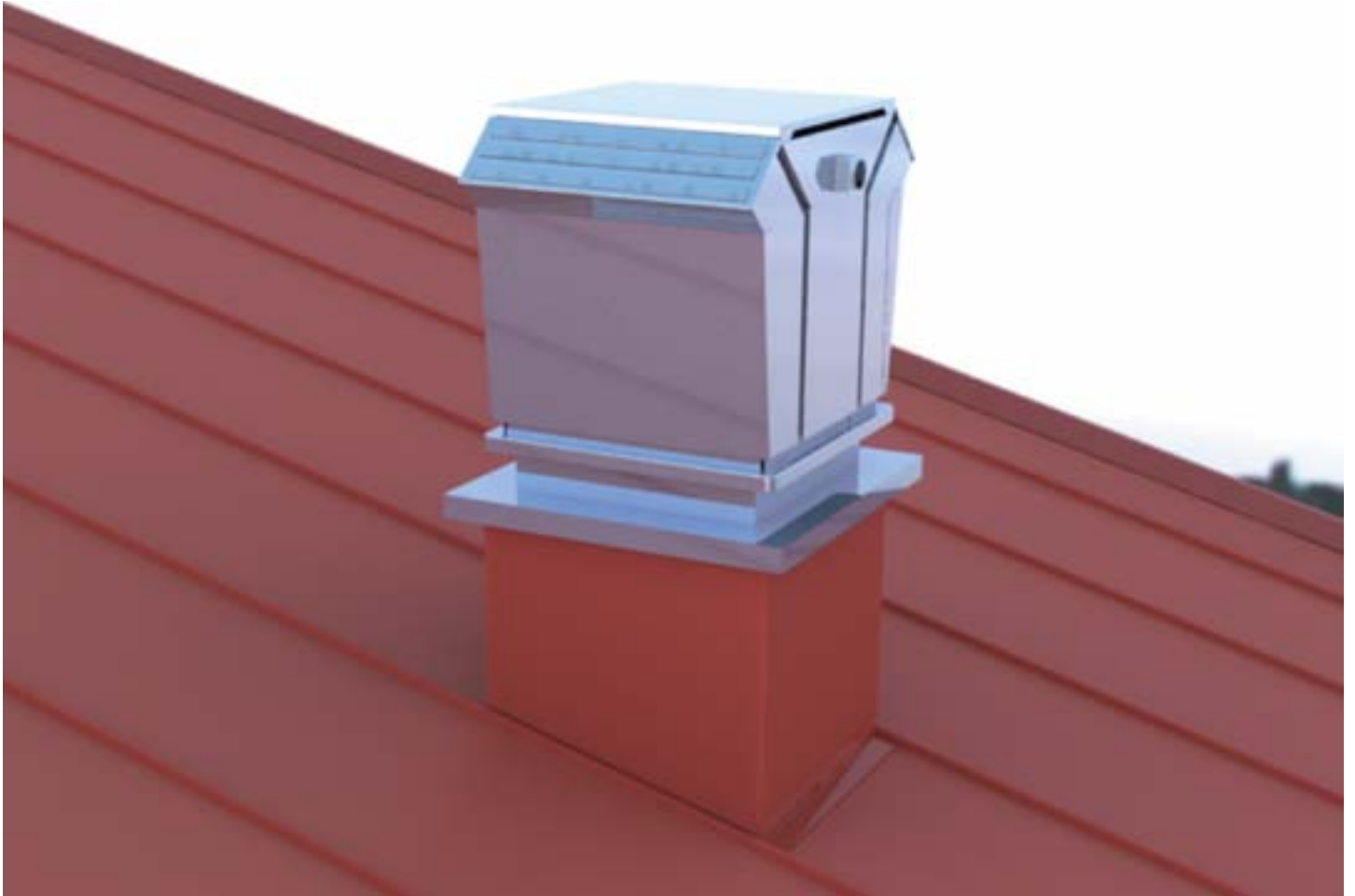
The power roof ventilator's cover and fan impeller with motor are easy to dismantle for inspection and maintenance, and the connection spigot is hinged for simple access.



Outlet obliquely vertical via self opening and self closing airstream operated dampers



Conical inlet for low pressure losses



Control equipment to meet every demand

External equipment

- MIRUVENT with AC motors can be equipped with external equipment for starting and stopping the fan, protective motor contactor or similar.

Variable speed control

- MIRUVENT with EC motors has an integrated motor control system that can be controlled with 0-10 Volt.
- Selected variants of MIRUVENT with AC motors are available with integrated frequency inverter; the others can be equipped with an optional external frequency inverter. Control can take place with 0-10 Volt.

Intelligent control with MIRU Control*

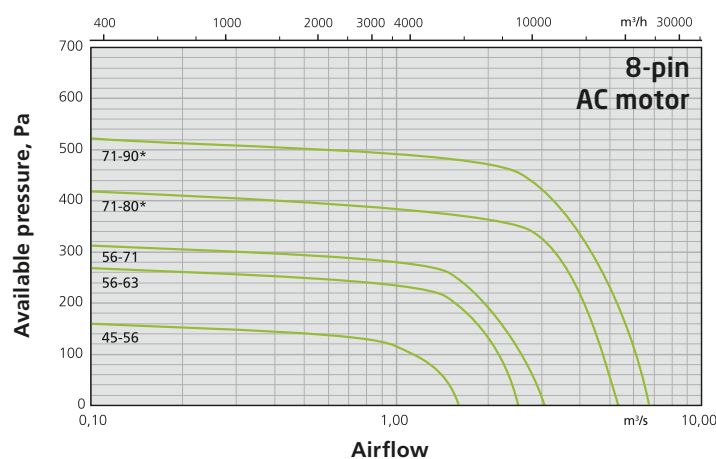
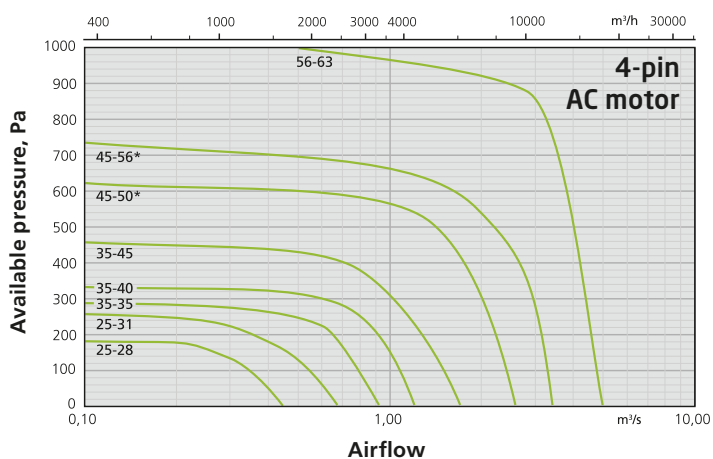
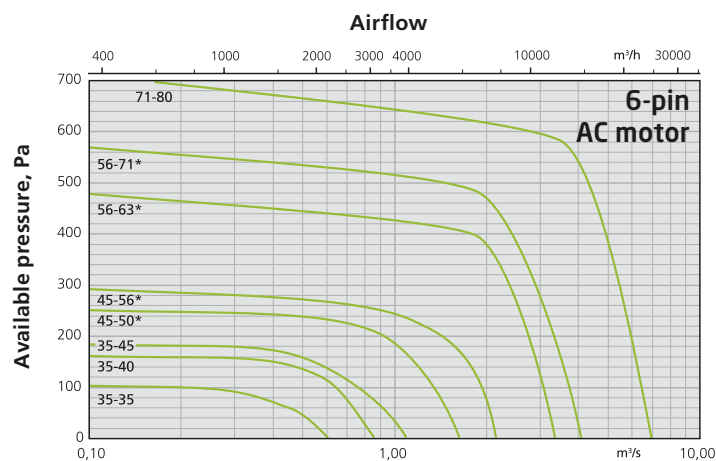
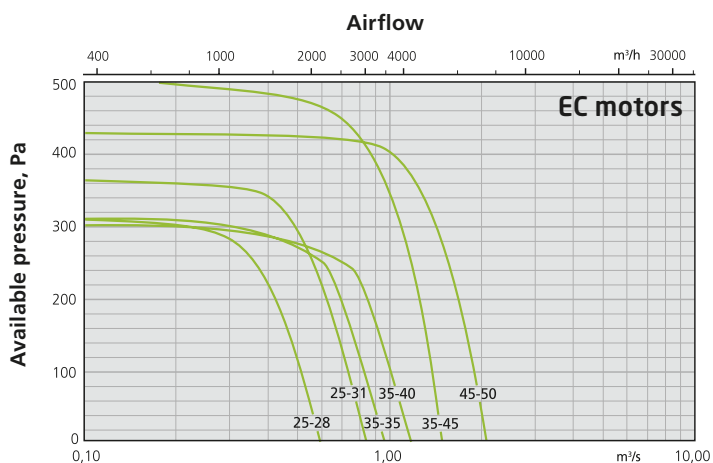
- MIRU Control equipment provides complete control and the potential for optimised operation via energy measurement and communication.
- Various types of control can be selected, such as pressure regulation, flow regulation, or pressure regulation and flow measurement.
- The low speed, high speed and stop functions can be controlled via the internal timer or using external equipment. Outdoor temperature or room temperature compensation of pressure/flow can be used, and alarm and operating indications are received.
- Energy measurement reads operating times, power output, SFP and power consumption.
- Communication with an external supervisory system can take place via Modbus RTU.
- Communication and integrated control of operating times, types of control and alarms can also take place via the GOLD air handling unit. All the communication options available in GOLD can also be obtained.

**) Under development, check delivery time prior to ordering*

Large range provides many opportunities

Alternative	Physical size										
	25		35			45		56		71	
Fan impeller	28	31	35	40	45	50	56	63	71	80	90
EC motors	●	●	●	●	●	●					
4-pin AC motor	●	●	●	●	●	●*	●*	●			
6-pin AC motor			●	●	●	●*	●*	●*	●*	●	
8-pin AC motor							●	●	●	●*	●*

*) Available with integrated frequency inverter



Dimensions and Weights

Size	A mm	B mm	C mm	Weight* kg
25	440	600	525	24-26
35	600	770	675	38-48
45	750	985	760	58-77
56	940	1225	970	140-155
71	1270	1625	1270	295-305

*) Variation depending on the choice of fan impeller and motor

