

ANAESTHETIC GAS SCAVENGING SYSTEM

SINGLE AND DUAL MOTOR SYSTEM OPTION



PRODUCT FEATURES

Description

AGSS ensures the safe collection and removal of anesthetic gas mixtures used in operating rooms to prevent harm to the environment and healthcare personnel. The Anesthetic Gas Collection System will be delivered skid-mounted and fully assembled. System testing is conducted at the factory.

Certifications

• The Anesthetic Gas Collection System (AGSS) must comply with HTM 02-01 and ISO 7396-2 standards.

Regenerative Blowers

Two types of regenerative blowers are available:

- Single
- Duplex

Blower Features:

- Oil-free and air-cooled, side channel (regenerative) type. Suitable for continuous operation.
- The side channel turbine contains a high-speed impeller directly connected to an electric motor.
- The produced pressure is dry and oil-free.
- The turbine is cooled by both the air blown by the motor and the air passing through it.
- Bearings are permanently lubricated; requires minimal maintenance.
- Three differently colored buttons indicate the three-phase connection.
- Compact housing design provides high efficiency and power.
- Due to its simple construction, maintenance is easier compared to oil-lubricated motors.
- The ÜZÜMCÜ AGSS power plant is equipped with a PLC control system that extends the blower's lifespan

AGSS Technical Specifications:

- Voltage: 220 / 380 V
- Current: 4.6 / 2.7 A
- Frequency: 50–60 Hz
- Power: 0,37 kW (at full load), can reach up to 0,40 kW
- Rotation Speed (RPM): 2830
- Noise Level: 53–56 dBA
- Maximum Vacuum: 120 mbar
- Maximum Pressure: 130 mbar
- Frequency-Dependent Performance: Maximum vacuum and pressure values vary depending on 50 Hz / 60 Hz.

Vacuum Regulation

The vacuum level in the piping system will be regulated by a vacuum relief valve. This valve must include filters to prevent the entry of large particles. When the vacuum level is regulated and the terminal unit openings are properly adjusted, the system will be able to provide then standard flow rates shown in the table below for each terminal unit.

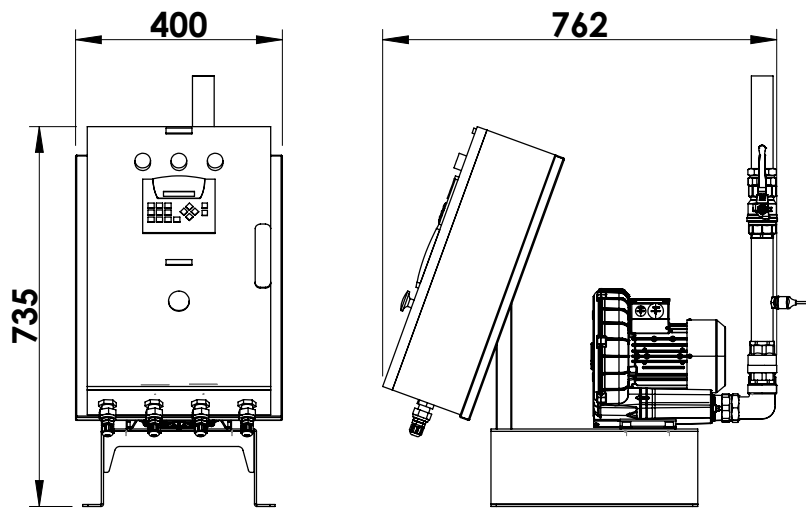
Model Order No	AGSS-00 66.1825	AGSS-01 66.1826	AGSS-02 66.1827	AGSS-03 66.1828	AGSS-04 66.1829	AGSS-05 66.1830
Capacity	80m ³ /h	110m ³ /h	145m ³ /h	2x80m ³ /h	2x110m ³ /h	2x145m ³ /h
Power kw	0,37	0,55	0,70	2x0,37	2x0,55	2x0,70
Vacuum	-120 mbar	-110 mbar	-120 mbar	-120 mbar	-110 mbar	-120 mbar
Entry dia.	38 mm	50,8 mm	50,8 mm	31.75 mm	38 mm	50,8 mm
Output dia.	44 mm	44 mm	60 mm	44 mm	44 mm	60 mm
Weight	40 kgs	50 kgs	60 kgs	100 kgs	120 kgs	150 kgs

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TECHNICAL DRAWING

Anesthetic Gas Collection System, Single Pump (AGS-00, AGS-01, AGS-02)



Anesthetic Gas Collection System, Dual Pump (AGS-03, AGS-04, AGS-05)

