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AGSS Plant

Anaesthetic Gas Scavenging System

The Anaesthetic Gas Scavenging System (AGSS) is designed to safely collect and remove waste anaesthetic gas mixtures from clinical areas, helping protect healthcare personnel from prolonged exposure and supporting environmental safety.

Featuring a **duplex blower configuration**, the system provides operational continuity through automatic standby blower activation in the event of a blower malfunction. Its **oil-free, air-cooled** blower technology ensures reliable operation, while the minimal design and metal frame allow efficient installation even in space-restricted technical rooms.

Available in different capacities to suit a wide range of project requirements, AGSS provides a flexible solution for healthcare facilities.



Anaesthetic Gas Scavenging System (AGSS)

AGSS central plant operates on demand via switches located next to the AGSS terminal outlets, activating the extraction system when required. Waste anaesthetic gases are collected through the connected terminal units and safely discharged outside the building.

The automatic control panel monitors system operation and provides fault alerts for reliable performance.

Duplex Blower System
Automatic standby activation for continuity

Switch Control
On-demand activation
(Optional Remote System)

Flexible Configuration
Capacity options to suit different projects

Centralized Control
Managed through a central control panel.

Equal Aging
Balanced operating hours.

AGSS Blowers – GK Series

- **Reliable Operation** — Low operating costs, reduced noise levels and dependable performance.
- **Oil-Free Compression** — Oil-free operation with smooth, pulsation-free airflow.
- **Pressure and Vacuum** — Continuous operation in both pressure and suction applications.
- **Single-Stage Design** — Air-cooled side channel blowers suitable for various applications.
- **Operational Continuity** — Automatic standby blower activation in the event of a blower malfunction.



		Blower Model							
Features	**Unit**	**GK201GEV0.4T**		**GK401GEV0.85T**		**GK501GEV1.5T**		**GK531GEV2.2T**	
Frequency	Hz	50	60	50	60	50	60	50	60
Flow Rate	m^3/h	80		140		210		270	
Phase		3		3		3		3	
Output Power	kW	0,4	0,5	0,85	0,95	1,5	1,75	2,2	2,55
Voltage	V	200-240 Δ 345-415 Y	220-275 Δ 380-480 Y	200-240 Δ 345-415 Y	220-275 Δ 380-480 Y	200-240 Δ 345-415 Y	220-275 Δ 380-480 Y	200-240 Δ 345-415 Y	220-275 Δ 380-480 Y
Rated Current	A	2,6Δ / 1,5Y		4,2Δ / 2,4Y	4,0Δ / 2,3Y	7,5Δ / 4,3Y	7,6Δ / 4,4Y	9,7Δ / 5,6Y	10,3Δ / 6,0Y
Noise Level	db (A)	53	56	63	64	64	70	65	71
Weight	kg	10		15		21		26	
Dimensions (W× D ×H)	mm	246 × 256 × 247		285 × 292 × 302		334 × 346 × 337		334 × 365 × 337	

Technical specifications are subject to change without prior notice. Images are for illustrative purposes only and may vary by model.



AC-100 AGSS Control Panel

The AC-100 is a control panel designed to monitor and manage hospital anaesthetic gas scavenging systems, coordinating duplex blowers to ensure reliable operation.

It provides centralized access to essential system information and operating parameters through an intuitive display.

Password protection helps prevent unauthorized access, while configurable operating limits and pump changeover settings support controlled and balanced system operation.

Pressure Monitoring
Monitors main line pressure and the pressure difference across the filters.

Blower Monitoring
Displays the operating status, priority, and running hours of each blower.

Adjustable Operating Limits
Defines the pressure thresholds for starting and stopping the blowers according to system requirements.

Equal Aging
Automatically rotates the duty blower after the configured operating period for balanced blower usage.

AC-100 Control & Configuration

- The AC-100 provides centralized control of blower operation through configurable pressure limits, blower priority, and equal aging settings.
- Key settings can be adjusted directly through the control interface according to system requirements, while essential operating parameters are continuously monitored.



General Controls & Indicators	
Engine Status Indicators	Operating status and blower priority; green for duty blower, yellow for standby blower, red for fault.
Exhaust Line Pressure	Displays the pressure in the AGSS exhaust line.
Detail Display	Displays system parameters and provides access to configuration settings.

VC-100 Functions & Settings	
System Settings	Device Language — Multiple language options Modbus Device ID — Device identification for master panel communication Pressure Unit — mbar or mmHg selection Restart — System restart function
Global Settings	Blower Start Delay — Time delay between blower starts Active Blower Limit — Sets the maximum number of blowers that can operate simultaneously. Equal Aging Period — Sets the interval for alternating the duty blower to balance operating hours. Fault Alarm Settings— Configures system fault alarm parameters.
Blower Settings	Blower Status — Active or inactive blower selection Service Interval — Service period setting Operating Hours Reset — Blower operating hour reset
System Faults & Alarms	Blower Fault – No Filter Sensor – Filter Clogged – Pressure Valve Open – Phase Sequence Fault

AGSS Probes – Pump Type

The Pump-Type AGSS probe operates with suction generated by a blower in a central AGSS system, enabling the collection and discharge of waste anaesthetic gases outside the room. The extraction flow can be adjusted using a variable-section connector at the outlet base block. A start-stop switch located next to the AGSS outlet enables on-demand operation. This configuration provides an effective solution for applications connected to a central AGSS plant.



Technical Features	
Compliance	AGSS Outlet
Suction Source	Central AGSS blower.
Body Material	Cr-Plated Brass
Operating Principle	Suction generated by a central AGSS blower.
Activation	Start-stop switch located next to the AGSS outlet.
Quality Standards	EN ISO 13485:2016 – EN ISO 9001:2015
Medical Gas Standards	EN ISO 7396-1:2016 – EN ISO 7396-2:2007 – EN ISO 11197 – EN ISO 9170-1 EN ISO 10524-1 – EN ISO 10524-2 – EN ISO 5359
Management Standards	EN ISO 14971:2019 – IEC 62366-1:2015

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AGSS Probes – Venturi Type

The Venturi-Type AGSS terminal generates suction using compressed air supplied at 4-4,5 bar. It provides an alternative for applications where installing a central AGSS plant is not required.
When the AGSS probe is connected, suction is activated and waste anaesthetic gases are discharged through the exhaust line. The Venturi-type probe connects to the AGSS outlet, where compressed air generates suction through the Venturi principle, enabling the removal of waste anaesthetic gases through the exhaust line.



Technical Features	
Compliance	AGSS Venturi Type Outlet
Suction Source	Compressed Air Supply System
Body Material	Cr-Plated Brass
Operating Principle	Suction generated by compressed air using the Venturi principle.
Activation	Start-stop switch located next to the AGSS outlet.
Quality Standards	EN ISO 13485:2016 – EN ISO 9001:2015
Medical Gas Standards	EN ISO 7396-1:2016 – EN ISO 7396-2:2007 – EN ISO 11197 – EN ISO 9170-1 EN ISO 10524-1 – EN ISO 10524-2 – EN ISO 5359
Management Standards	EN ISO 14971:2019 – IEC 62366-1:2015

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