SCHÖNN
Medizintechnik GmbH

ANAESTHETIC GAS SCAVENGING SYSTEM

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Definition

The Anaesthetic Gas Scavenging system is an active system which removes anaesthetic gas mixtures from operating rooms and any other areas fitted with nitrous oxide terminal units. The removal at source thus eliminates the possible long-term health hazards to exposed medical staff. By virtue of its design, the active disposal system can produce high levels of capture simply by connecting the terminal unit to the anaesthetic breathing circuit via a receiver unit, thereby removing the majority of "pollution" at source.

- Accessible easy installation
- All settings are factory-set and tested for assured reliability
- Digital control panel indicates pipeline pressure
- Adjustable from the outside and can be placed on either side of unit
- Easy-to-read digital display indicates pipeline pressure
- Designed with minimal pressure drop for better plant performance
- Easy to maintain and prevents large dust particles from entering the pump

	Disposal system standard			
	Pressure drop		Flow rate	
	BS 6834: 1987	ISO DIS 7396-2: 2005	BS 6834: 1987	ISO DIS 7396-2: 2005
Maximum	1 kPa	1 kPa	130 L/min	80 L/min
Minimum	4 kPa	2 kPa	80 L/min	50 L/min
Maximum static pressure	20 kPa (ve)	15 kPa (ve)		

DUPLEX ANAESTHETIC GAS SCAVENGING SYSTEM

Where planned preventive maintenance of a blower could interrupt the smooth running of the operating department, a duplex system is strongly recommended. In the event of a blower malfunction, the stand-by unit is automatically brought online, ensuring the AGS system continues to provide protection for medical staff, and that operations do not have to be delayed or cancelled. HTM 02-01 states that wherever a single AGS pump is provided for a single operating suite, a spare pump for up to six units should be provided for immediate connection into the system in the event of failure.

Improvements in anaesthesia workstation designs have led to reduced flows of gas being used, and hence less potential gas "spillage" during induction and maintenance of anaesthesia. AGS system design standards have evolved to take account of this, but anaesthesia workstations in use today range anywhere from days old to decades of service. This means that lower flow systems are not practical on all applications.HTM 02-01 provides guidance on the selection of an appropriate standard for system flows based on a number of practical scenarios. The Schönn AGS systems meet the requirements of HTM 2022, HTM 02-01 standards and ISO 7396-2.Schönn AGS terminal units incorporate an adjustable orifice, which enables the flow rate to be adjusted in line with any standard including BS 6834 and EN ISO 7396-2.

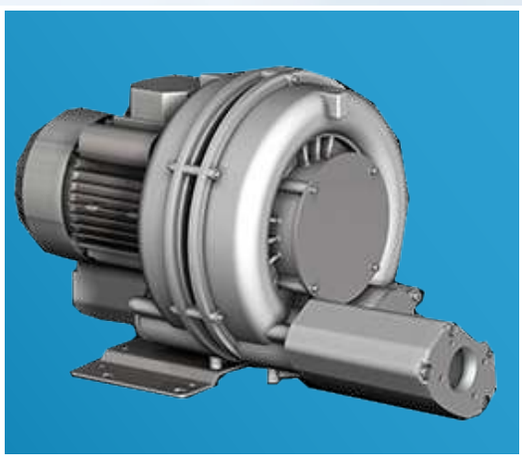
Vacuum Pumps

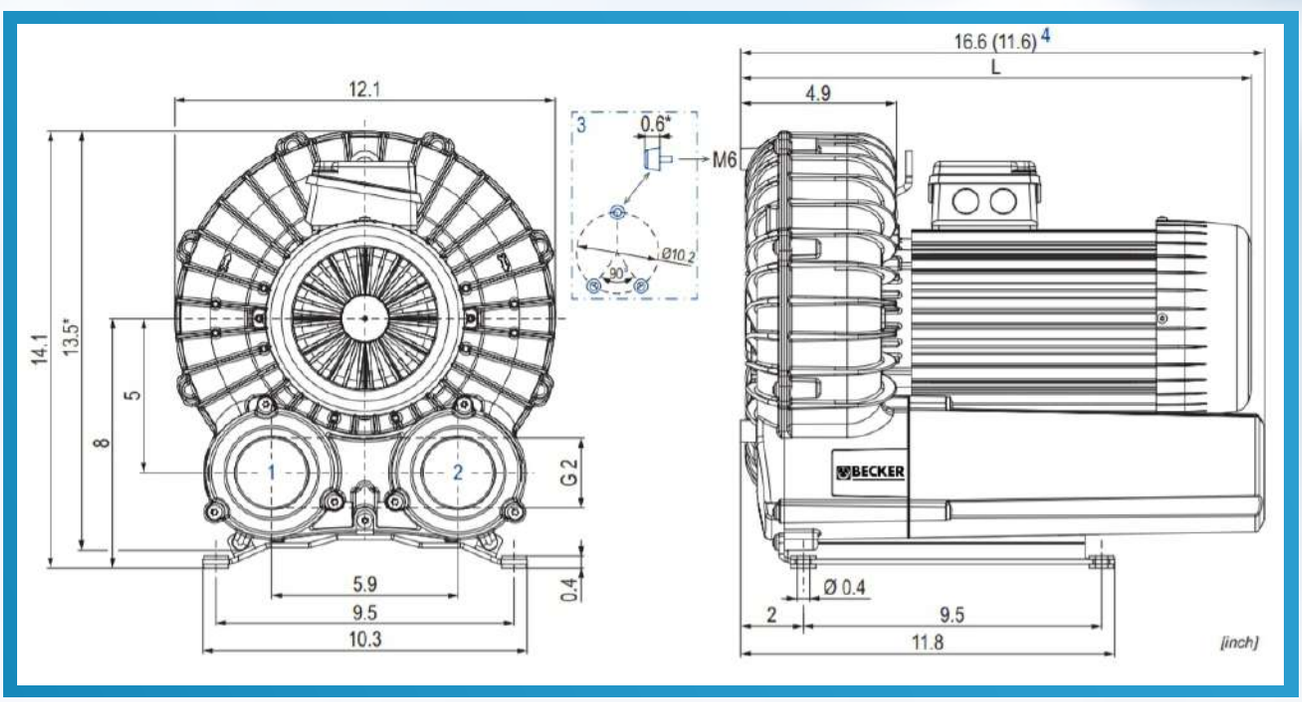
Side channel vacuum pumps

- 100% oil-less operation
- Integrated inlet filter
- ntegrated vacuum or pressure relief valve

The compact regenerative blowers offer high performance in a quiet, contact-free environment.They require minimal maintenance and can be converted to two-stage operation.

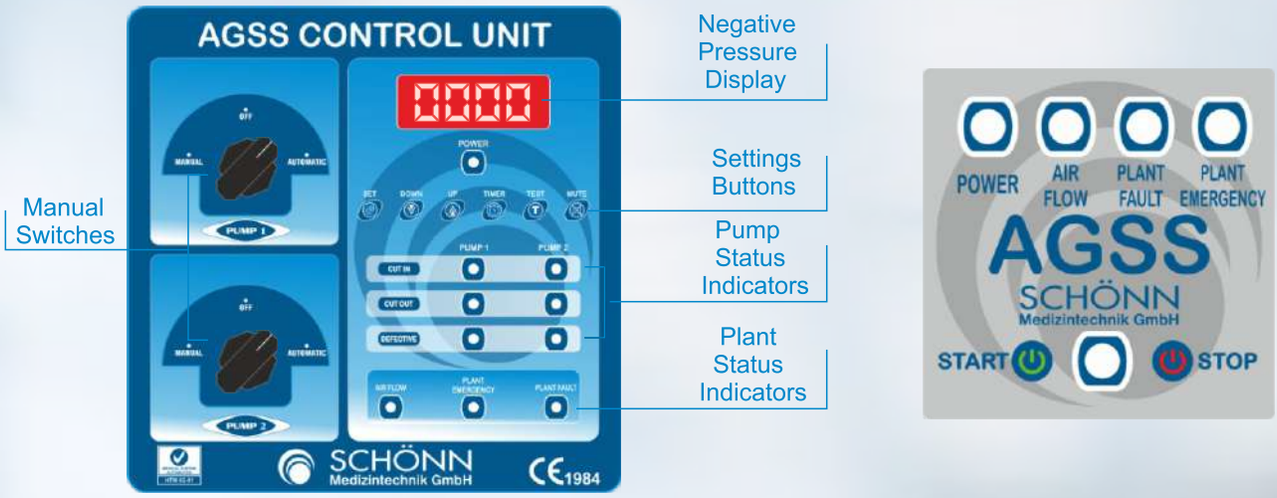
BUSCH SAMOS SIDE CHANNEL VACUUM PUMPS





ANAESTHETIC GAS SCAVENGING SYSTEM

CONTROL UNIT AND REMOTE CONTROL SWITCHES



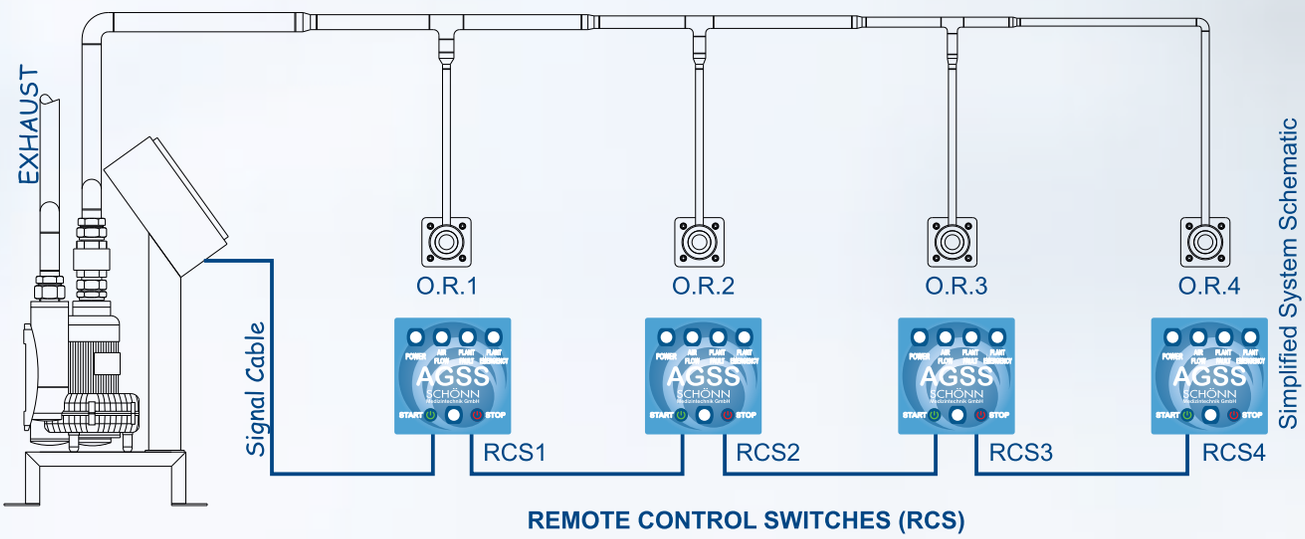
Schönn AGSS Plant, can be operate either by a remote-control switch, or manually by side to the plant.

But the operator should be in an operating room while the plant is working, therefore the RCSs are essential for our AGSS plants.

As you can see on the RCS, all the controls required to operate AGSS unit is placed on the membrane.

AGSS Remote Switches consist of ON/OFF Buttons, a green NORMAL indicator, yellow PLANT FAULT indicator and a red PLANT EMERGENCY indicator suitable for mounting into a back box.

The plant can be controlled different locations by connecting separate AGSS Remote Switches in parallel.



REMOTE CONTROL SWITCHES (RCS)

ANAESTHETIC GAS SCAVENGING SYSTEM

AGSS OUTLET

Anesthetic gas scavenging system outlet is made of brass material and chrome plated.

Designed and manufactured in accordance with ISO 9170-2 standard.

AGSS socket is used in operating theaters, delivery rooms and anesthesia rooms.

Where the AGSS socket is located, the remote control of the AGSS pump is performed via the Pendant console or the remote start module on the wall.

AGS system performance is fully compliant wth HTM02-01/HTM 2022, C11 and EN ISO 9170-2 standards. 130 lpm at a pressure drop of 1kPa from each AGS outlet, min. 80 lpm flow should be provided. Scavenging completely into the atmosphere without oil.

BS 6834

EN ISO 9170-2

BS 6834 attached to Pendant

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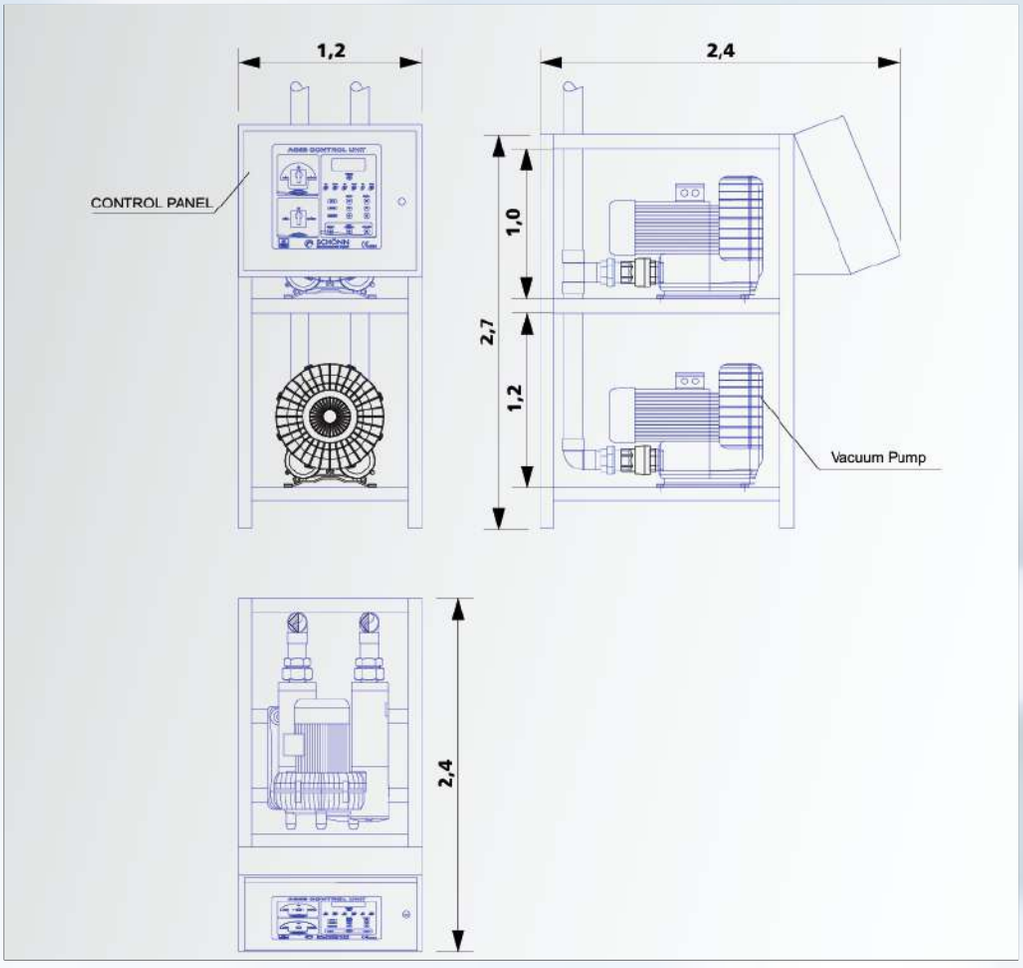
Duplex Anaesthetic Gas Scavenging System



Pump Used	Type	Model No	Flow Rate (FAD) (m3/h)		Max. differential pressure (mbar)		kW		dB(A)	
			50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
SB 0080 D2	Duplex	SCAGSS-2x80M	85	102	-210	-250	0,7	0,8	55	61
SI 0090 E2	Duplex	SCAGSS-2x90M	80	96	-215	-205	0,7	0,9	64	68
SI 0200 E2	Duplex	SCAGSS-2x200M	200	240	-265	-280	2,2	2,5	72	72
SI 0320 E1 (B)	Duplex	SCAGSS-2x320M	330	395	-230	-255	3,0	3,4	76	77