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Clinical Experience Technical Competence

Portec

Anesthesia



The portable, modular anesthesia assistant

- + For portable or stationary use
- + Economical, robust and reliable
- + Intuitive operation concept
- + Modular configuration through to stand-alone solution





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Portec The portable, modular anesthesia system

PORTEC by F. Stephan GmbH is a robust portable anesthesia system for practically all tasks which stands out on account of its ergonomic, functional design as well as its unique variability. PORTEC is extremely robust and can be extended by adding further modular elements without any problems. This is a proven concept which when combined with the oxygen generator STAXEL even permits fully autonomous operation, including its own oxygen and compressed air supply. And so the system can be used in regions and crisis/disaster areas with poor infrastructure.



Extensive basic features

The compact, space-saving basic module is ideal for starting the anesthetic, for practical use in hospitals or in the recovery room. Its intuitive user guidance guarantees both safe and uncomplicated handling. PORTEC is equipped with excellent features including the anesthesia unit GME 3 (O_2/N_2O), an integrated N_2O cut off device, oxygen flush, oxygen deficiency signal and a ventilation system with CO_2 absorber already in the basic version.

Flexible and mobile

In the extended version, PORTEC is equipped with the gas mixing unit GME 4 with additional AIR measuring tube and integrated changeover switch for O_2/N_2O and O_2/AIR operation. As an optional feature, the device can be fitted with the Ratio system which safeguards a minimum concentration of 25% oxygen and rules out any toxic gas mixtures. A trolley with anti-static rollers, which can be supplemented optionally by a writing panel and a block with three full extendable drawers, makes PORTEC ready for mobile use.







Customized configuration

The modular structure of the anesthesia system permits exact customized configuration. And so PORTEC can be adapted perfectly to all possible tasks. The PORTEC anesthesia system can be ideally supplemented by adding the ABV-U ventilator with a large number of ventilation possibilities and safe monitoring of stenosis, disconnection and power failure. The NGM 1000 anesthetic gas monitor and an O_2 monitor with adjustable alarm limits are other practically indispensable components for optimum patient care.

Complete anesthesia system with decentral oxygen generator

At the customer's request, PORTEC can be combined with the oxygen generator STAXEL, which supplies oxygen and compressed air for anesthesia and ventilation, resulting in an absolutely reliable, compact and economic stand-alone solution for all applications. The anesthesia system can also be supplemented by a connection block for reserve bottles (O_2/N_2O) and a pressure reducer (O_2/N_2O) for central gas supply.



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Portec

General specifications		
MPG ¹ class	II b	
Dimensions	430 x 520 x 270 mm (WxHxD)	
Weight	13 kg	
Gas supply		
AIR	3-6 bar + 0,5 bar	
O ₂	3-6 bar + 0,5 bar	
Optional		
N ₂ O	3-6 bar + 0,5 bar	
AIR	1,5 bar + 0,5 bar	
O ₂	1,5 bar + 0,5 bar	
Ventilation system		
Dimensions	400 x 500 x 130 mm (WxHxD)	
Weight	4,5 kg (without soda lime)	
Absorber volume	0,91	
APL valve	0 70 cmH ₂ O	
Operating modes		
Manual	Hand ventilation	
Closed	Closed system	
Semi-closed	Semi-closed system	
Optional		
FG out	Fresh gas outlet	
Ventilator ABV-U optional		
Pressure	Time controlled	
Volume	Time controlled, constant volume	
Pressure limited		
Ventilation forms ventilator ABV-U optional		
CMV		
S-CMV		
PCV		
S-PCV		
IPPV		
IMV		
SV/CPAP, manual		

Technical Specifications

Parameters	
Measuring gauges	
AIR	0 15 l/min
O ₂	Fine: 0 2 1/min
	Coarse: 2 15 l/min
N ₂ O	1 10 l/min
O ₂ -Flush	Approx. 50 l/min (at 5 bar)
Ventilator ABV-U optional	
Tidal volume	100 1500 ml
Optional	
Tidal volume	50 400 ml
Respiration frequency	6 60/min
I:E ratio	2:1 1:4
Pmax	15 60 cmH ₂ O
PEEP	0 10 cmH ₂ O
Monitoring	
Ventilation pressure	Pressure gauge
Volume	"Haloscale" volumeter
Optional	
FiO ₂	Visual, acoustic
Monitoring	
Alarms	Visual, acoustic
Pressure	Pmax
Optional	
FiO ₂	
Sensors	
FiO ₂	El.chem. oxygen cell

 $^1\mathrm{MPG}$ = German abbreviation for Medical Devices Law