



Pediatrics

Clinical Experience
+ Technical Competence



Reanimator F 120 and F 120 mobile

The ventilation system
for neonatal use

- + Stationary or mobile use
- + Flexible and reliable
- + IMV, CPAP and manual ventilation
- + Optimum conditioning of inspired air
- + Safe monitoring

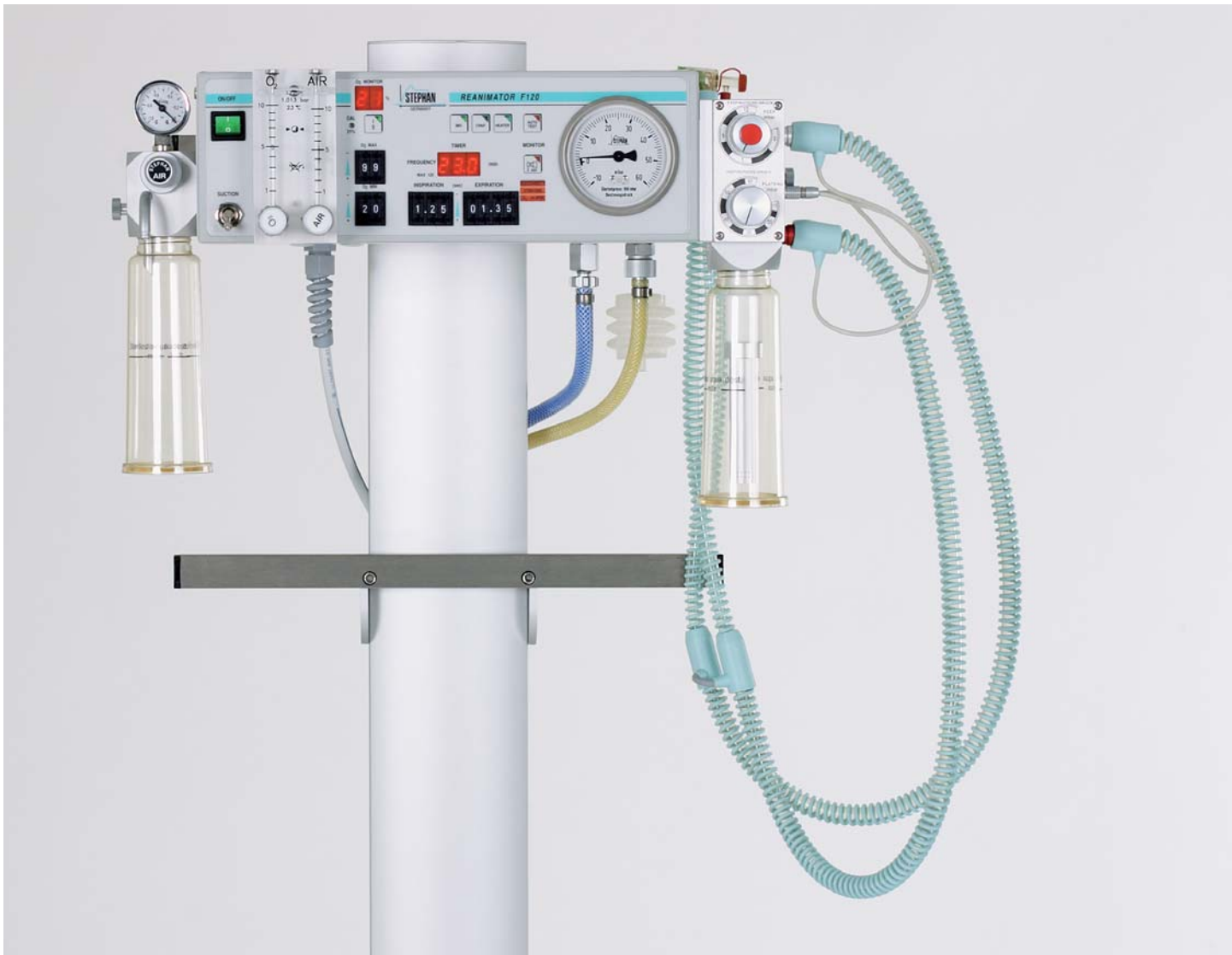


For Medical Devices & Lab. Equipment

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Reanimator F 120/F 120 mobile

The ventilation system for neonatal use

The Reanimator F 120 was developed by F. Stephan GmbH specifically for initial care and short-term ventilation of prematurely born infants and newborns. Versions are available with either a built-in gas blender or dual flowmeter. The F 120 is unique, combining user-friendliness with flexibility and robustness. A further version, the F 120 mobile, is designed specifically for installation in vehicles and for emergency use.



Forms of ventilation

The respirator works on a constant-flow principle (controlled by volume over time and limited in terms of pressure) and is designed for IMV and CPAP ventilation. As inspiration and expiration times can be set independently, the IMV mode enables the patient to spontaneously breathe at the selected PEEP level between mandatory ventilation breaths. In CPAP mode, with settable CPAP level and plateau, lung replenishment takes place solely through the patient's spontaneous breathing. The patient's breathing is facilitated by the continual positive airway pressure provided. An additional advantage of the F 120 is the built-in possibility of manual ventilation. This expands the spectrum of available treatments, allowing the physician to manually inflate within pre-set limits.

Focus on safety

Perfect monitoring is of crucial importance in neonatology. The F 120 guarantees the highest level of safety through the plainly visible monitoring of breathing frequency and an absolutely fail safe alarm function system upon disconnection, stenosis, or power failure. Optimum supply of the desired oxygen concentration to the newborn is overseen by the built-in O₂ Monitor which includes a variable alarm limit function.



Optimum conditioning of inspired air

The F 120 has a highly effective system for heating and humidifying inspired air, thus ensuring the optimum conditioning of inspired air and preventing the drying of airways. This increases patient comfort and prevents the generation of condensate, rendering frequent changes of the patient tube system redundant. The stationary versions are additionally fitted with a suction/extraction unit (with variable performance) and can be equipped with a battery and 12-V connection power option, if required.

F 120 mobile – ideal for emergency assistance

The mobile versions of the F 120 are equipped with special fixtures, allowing fast and simple anchorage. An internal compressor safeguards the compressed air supply. In addition to mains power, connection to 12-volt onboard power supplies is also possible. The unit has an internal battery that ensures operation for approximately 80 minutes after power failure. The F 120 mobile is therefore an ideal unit for use outside a clinical environment, e.g. emergencies or during transport.

F 120

Technical Specifications

General specifications	
MPG class	II b
Dimensions	
F 120	350* x 120 x 210 mm (WxHxD)
F 120 Mobile	120* x 300 x 235 mm (WxHxD) * plus 80 mm patient section
Weight	6.5 - 12 kg
Power Supply	
Mains	230 - 115 V AC, 50 - 60 Hz
F 120	55 VA
F 120 Mobile	170 VA
Onboard power supply	12 V DC
Battery	12 V DC Run time approx. 80 min. 40 min. of that with heating
Gas Supply	
AIR	3 - 6 bar + 0.5 bar
O ₂	3 - 6 bar + 0.5 bar
F 120 Mobile	Compressor
Operating modes	
Controlled by volume over time, constant-flow	
Limited by pressure	
Ventilation modes	
IMV/HFV	
CPAP	
Manual ventilation	
Test	

Parameters	
Measuring tubes	
AIR	0 ... 10 l/min.
O ₂	0 ... 10 l/min.
Optional	
Gas mixer	
Flow	2 ... 20 l/min.
FiO ₂	21 ... 100 %
Operating unit	
Inspiration time	0.25 ... 2 s
Expiration time	0.25 ... 30 s
Heating	
Humidification	
Patient section	
PEEP	0 ... 15 mbar
PLATEAU	15 ... 60 mbar
Monitoring	
Ventilation pressure	Pressure manometer
Frequency	120 max.
Monitoring	
Alarms	Optical, acoustic
Disconnection	
Stenosis	
FiO ₂	
Sensors	
FiO ₂	El. chem. oxygene cells