Reanimator F 120 and F 120 mobile

The ventilation system for neonatal use

+ Suitable for stationary or mobile use
+ Flexible and reliable
+ IMV, CPAP and manual ventilation
+ Optimum conditioning of inspired air
+ Secure monitoring
Reanimator F 120/F 120 mobile
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The Reanimator F 120 was developed by F. Stephan GmbH specifically for initial care and short-term ventilation of prematurely born infants and newborns. In two versions, available with built-in gas mixer or dual flowmeter, the F 120 is convincing particularly because of its user-friendliness, flexibility, and robustness. Another variant of the device, the F 120 mobile, is intended specifically for installation in vehicles and for emergency responder use.

Forms of ventilation
The respirator works according to the constant-flow principle, controlled by volume over time and limited in terms of pressure, and was conceived for the IMV and CPAP forms of ventilation. Through the fact that the inspiration and expiration times can be set independently of each other, there is the opportunity for the patient, in IMV mode, to spontaneously breathe at the selected PEEP level between mandatory ventilation breaths. In CPAP mode, with settable CPAP level and plateau, filling of the lungs takes place solely through the patient’s spontaneous breathing. The patient’s breathing is rendered markedly easier through the continual positive airway pressure provided. An additional decisive advantage of the F 120 is the built-in manual ventilation. It considerably expands the spectrum of treatments available to the physician by adding the possibility of manual inflation within the pre-set limits.

Focus on safety
Perfect monitoring is of crucial importance, especially in neonatology. For this reason, the F 120 guarantees the highest level of safety through clear monitoring of breathing frequency and absolutely reliable alarm function upon disconnection, stenosis, or power failure. A built-in O₂ monitor with settable alarm limits monitors optimum supply of the desired oxygen concentration to the newborn.
Optimum conditioning of inspired air
The F 120 has a highly effective system for heating and humidifying inspired air that ensures optimum conditioning of inspired air and prevents drying of the airways. This increases patient comfort and prevents formation of condensation water, which makes frequent changes of the patient tube system unnecessary. The stationary variants additionally have an exhaust unit with variably settable performance and can optionally be equipped with a battery and a 12-V connection.

F 120 mobile – the ideal helper in case of emergency
Equipped with special holding systems, the mobile variant of the F 120 can be fastened in place ideally during use. An internal compressor ensures the compressed air supply. Along with the standard power connection, connecting to 12-volt onboard power supplies is possible without any problems. The device has an internal battery that ensures operation for a period of approximately 80 minutes in the event of failure of the electrical supply. This makes the F 120 the ideal helper for use outside a clinical setting, e.g. in the case of emergency or when transporting patients.
**F 120**

### General
- MPG class: II b
- Measurements:
  - F 120: 350* x 120 x 210 mm (WxHxD)
  - F 120 Mobile: 120* x 300 x 235 mm (WxHxD)
  - * plus patient component 80 mm
- 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: 0 ... 10 l/min.
- O₂: 0 ... 10 l/min.
- Optional:
  - Gas mixer: Flow 2 ... 20 l/min., FiO₂ 21 ... 100 %

### Types of Operation
- Controlled by volume over time, constant-flow
- Limited by pressure

### Forms of Ventilation
- IMV/HFV
- CPAP
- Manual ventilation
- Test

### Parameters
- Measuring tubes
  - AIR
  - O₂
- Optional
  - Gas mixer
    - Flow: 2 ... 20 l/min.
    - FiO₂: 21 ... 100 %
- Operation unit
  - Inspiration time: 0.25 ... 2 s
  - Expiration time: 0.25 ... 30 s
  - Heating
  - Humidification
- Patient component
  - PEEP: 0 ... 15 mbar
  - PLATEAU: 15 ... 60 mbar

### Monitoring
- Ventilation pressure
- Pressure manometer
- Frequency: 120 max.

### Supervision
- Alarm
  - Visual, acoustic
- Disconnection
- Stenosis
- FiO₂

### Sensors
- FiO₂
  - El.chem. oxygen cells

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**Technical Specifications**