

medin-NC3[®]

Technical specifications

The medin-NC3 nCPAP driver is used in combination with the Medijet[®] nCPAP generator to administer nasal nCPAP therapy to premature infants and newborns. The medin-NC3 must be used under the supervision of expert, specially trained staff in a clinical setting and with simultaneous monitoring of the patient's oxygen saturation.

Specification

Gas delivery unit	Computer controlled electronic gas blender with integrated oxygen sensor and integrated blower; flow controlled, range 0 to 17.5 l/min; in 0.1 l/min steps
Gas supply	3.0 to 7.0 bar (Oxygen), Surrounding air (supplied by an integrated blower)
Gas connection	DISS or NIST
Power	1x Internal battery, 1x external battery (optional), 14.4 V DC, operating time approx. 2 hours per battery, rechargeable External power supply 100 - 240 V AC, 50/60 Hz
Display	7.0" multi-colour; 800 x 480 Pixel
Data	Patient pressure 0 to 20 mbar (diagram and measurement) Trend: CPAP, FiO ₂ , RR, Push frequency, Flow, Rate, I:E - up to 28 days
CPAP	Measured from 0 to 20 mbar (in 0.1 mbar steps)
Push	Push pressure - measured up to 17.5 mbar (in 0.1 mbar steps) Push time limited to max. 3 s (in 0.1 s steps) Manual and automatic push delivery
Leak Assist	Compensation of leakages (± 5 l/min to keep target pressure) in all CPAP modes (not in High Flow mode)
RR	Optional display of measured respiratory frequency; 1 - 120 breaths per minute; in CPAP and Apnea CPAP mode
Apnea time	2 to 30 s (in 1 s steps)
Push flow	Additional push flow up to 70% of base flow (in 0.1 l/min steps); max. total flow 17.5 l/min (base flow + push flow)
T insp.	0.2 to 3.0 s (in 0.1 s steps)
Trigger	Pressure trigger, based on the CPAP pressure sensitivity ± 0.2 to ± 1.0 mbar (in 0.1 mbar steps)
FiO ₂	Oxygen concentration 21 to 100 % (in 1% steps) Alarm setting: $\pm 2-5$ % difference Oxygen Flush (+5, +10, +15 higher concentration) for 60 s
Alarms	Visual (LED & Display) and audible (adjustable push alarm settings) Alarm countdown
Safety	Mechanical overpressure valve
External data	USB/RS232 port, export of live and trend data



Description of modes

CPAP	Standard CPAP; additional function: Leak Assist
Apnea CPAP	CPAP with Apnea detection (automatically generated pushes); additional functions: Backup (Backup Rate: 5-120 1/min as a function of T insp. (minimum 0.2 s)), Leak-Assist
NIPPV	Bi-level CPAP with measurement of I:E ratio as a function of set rate and inspiration time; additional function: Leak Assist
High flow	Flow delivery for Nasal Cannulas in a flow range of 0-12 l/min

Software adjustments

Languages	EN, DE, FR, IT, NL, ES, EL, LT, CS, PL, NO, DA, SV, RU, ZH, TR, JA, RO
Pressure units	mbar or cmH ₂ O
Scale of pressure	Three adjustments: 0-10, 0-15 and 0-20 mbar
Respiratory rate	Optional display of RR

Physical data

Dimensions	34 cm, 25 cm, 25 cm (W x H x D)
Weight	6.5 kg



Standards

Classification	Class IIb
Class of protection	Class II equipment
Certification	ISO 9001, ISO 13485 and 93/42/EEC certified production facility
Declaration	CE Marked product according to MDD 93/42/ EEC

Warranty and services

Period	24 months
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Humidification

Hamilton Medical	HAMILTON-H900 humidifier
Fisher&Paykel	MR850

Accessories

Generator	Medijet 1000, 1010, 1020
Wheelstand	REF 5008

Manufacturer:

medin Medical Innovations GmbH

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