

**the world of medin
products.**

Giving future...

medin
Medical Innovations

For a good start in life –

highest quality standards and reliability.

The first breaths, immediately after birth, are important and the fundamental pre-condition for an optimal start in an independent and successful life. With its nCPAP products our company supports the spontaneous breathing of newborns and premature babies. The work of breathing is substantially reduced. The gentle approach with active nCPAP systems enhances the FRC, improves compliance and reduces RDS.

Furthermore our nCPAP system can be used after a mechanical ventilation to facilitate weaning from the respirator. Our products monitor and support the natural spontaneous breathing of the patient.

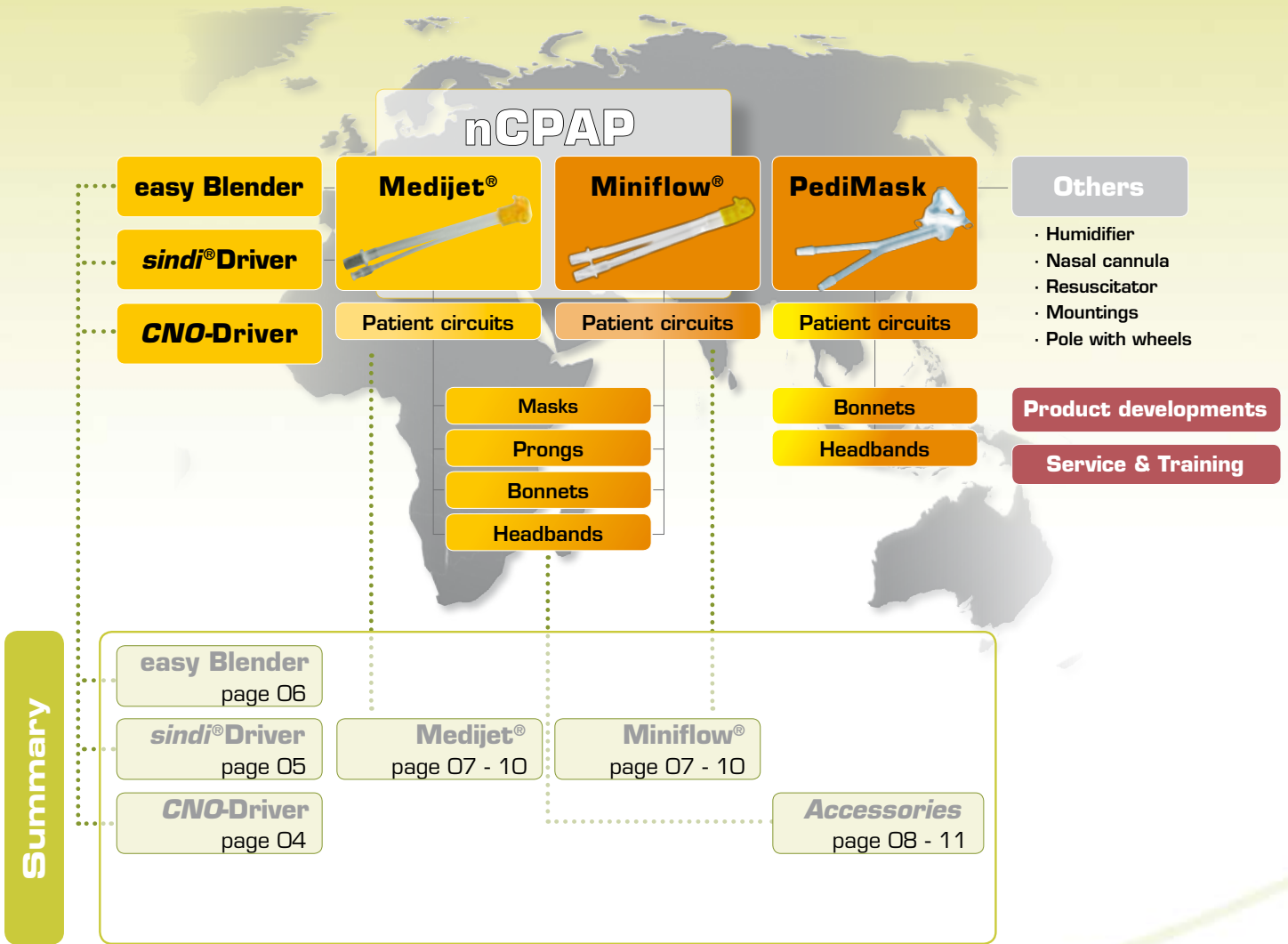
All systems and products are developed and manufactured in Germany. As in-house development, our products are protected by patents and utility patents. We serve our products to the international market through our distributors. We offer an international approach, which is national adaptable with our help.

The production, distribution, logistics and the development are based in Puchheim near Munich (Bavaria / Germany).



The world of medicin -

CPAP System for neonates & newborns.



We are certified:

- DIN EN ISO 13485:2007
- DIN EN ISO 9001:2008
- Guideline 93/42/EEC Annex II
- ISO 13485 CMDCAS

Medin-CNO

[Medin CPAP devices]

REF 3090



The only device worldwide with CPAP, Apnea CPAP, SVSP* and Oscillation in combination.

Medin-cno is used as stationary nCPAP driver for the nCPAP therapy of neonates and premature infants treated in combination with the nCPAP generator Medijet® in intensive care units.

Medin-cno may only be used in combination with simultaneous and constant hemodynamic monitoring of the patient, only by trained medical personnel and only during clinical use.

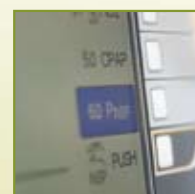
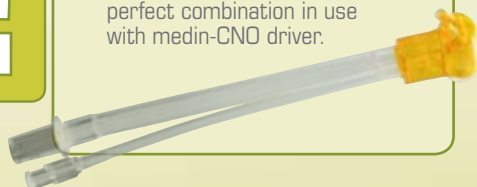
- Combination of basic CPAP, monitoring, back up and high frequency oscillation
- Special Apnoea Mode
- Accessories identical to medin sindi
- Intuitive and user friendly

technical data & facts

Classification	IIb
Size of the device incl. connectors	29cm x 23,5cm x 18cm (W x H x D)
Weight	4,75kg
Display	7.0" – multicolor, 800 x 400 Pixel
Shown values	<ul style="list-style-type: none"> · CPAP pressure · CPAP pressure curve (diagram) · Flow · Oxygen concentration · Respiration rate
Electric support	
Power supply (mains)	100-240 V AC / 50-60Hz
Battery	24 V DC, 2 hrs. (Bat. operation mode)
Gas supply – Air	3 – 6 bar
Gas supply – O₂	3 – 6 bar
Parameters and Sensors	
CPAP pressure	0 - 15 cm H ₂ O
Oxygen concentration	21% to 100% oxygen
Safety valves:	Mechanical overpressure valve Electric shut of valve
Oxygen sensor	OOM 102 (easy to exchange)
Connectors	
Gas supply connectors	DISS or NIST standard
Patient gas output	M22 / F 15
Patient pressure port	Luer
Mounting	On hospital rails (10 x 25 mm)
Modes	<ul style="list-style-type: none"> · CPAP · Apnoea monitored CPAP with automatic push function · Oscillation · SVSP
Alarms	<ul style="list-style-type: none"> · Disconnection · Overpressure · High CPAP pressure (adjustable) · Low CPAP pressure (adjustable) · Oxygen concentration · Gas supply pressure air · Gas supply pressure O₂
Alarm signals	Optical, acoustical and text message
Connection to external central alarm system	Optional
Data handling	
Actual data	Shown at the display
Internal data recording	8 hours
External data interface	USB
Accessories	
Combinable nCPAP generators	Medijet® 1000, Medijet® 1010, Medijet®1020
Tube circuits	Various tube circuits for all kind of humidifiers available



- nCPAP generator Medijet® perfect combination in use with medin-CNO driver.



*Support ventilation by synchronized pushes.

Sindi® Driver

REF 1080

[Medin CPAP devices]



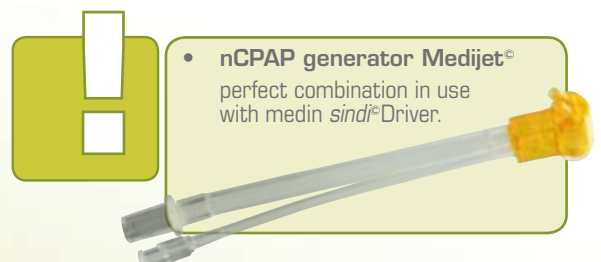
technical data & facts

Classification	IIb
Size of the device incl. connectors	24cm x 21,5cm x 14,5cm (W x H x D)
Weight	2,80kg
Display	96 x 61mm – monochrome
Shown values	<ul style="list-style-type: none"> · CPAP pressure, digital · CPAP pressure curve (diagram) · Alarm levels, high and low · Oxygen concentration digital · Spontaneous breathing frequent
Electric support	
Power supply (mains)	100-240 V AC / 50-60Hz/ 400mA
Battery	9,6 V DC, 5 hrs. (Bat. operation mode)
Gas supply – Air	3,5 – 6 bar
Gas supply – O₂	3,5 – 6 bar
Parameters and Sensors	
CPAP pressure	0 - 10 cm H ₂ O
Oxygen concentration	21% to 100% oxygen
Safety valves:	Mechanical overpressure valve (80cm H ₂ O)
Oxygen sensor	OOM 102
Modes	· CPAP
Alarms	<ul style="list-style-type: none"> · Disconnection · Overpressure · High CPAP pressure (adjustable) · Low CPAP pressure (adjustable) · Oxygen concentration · Gas supply pressure air · Gas supply pressure O₂
Alarm signals	Optical, acoustical and text message
Connection to external central alarm system	Optional
Data handling	
Internal data recording	8 hours
Data interface	RS 232
Accessories	
Combinable nCPAP generators	Medijet® 1000, Medijet® 1010, Medijet®1020

The long term approved solution with monitoring unit.

The medin sindi is a universal gas delivery unit. It can be used with and without any power.

- Display of nCPAP pressure in analogue curve and digital form
- Display of oxygen concentration in bargraph and digital form
- Display spontaneous breathing frequency in blinking and digital form
- Display of flexible setting upper and lower alarm for nCPAP pressure
- Resets alarms – mute 2 minutes or quit
- Disconnection alarm for nCPAP (if patient is lower than 1,5 cm H₂O)
- Integrated service software
- Battery operating for about 6 hrs. (incl. charging control)
- FiO₂ Trend



- nCPAP generator Medijet®
perfect combination in use
with medin sindi® Driver.

Medin-Blenders



Medin blenders are an easy system for giving air and oxygen as a therapy.

The biggest difference compared to the other devices is, that there is no electrical feedback about parameters like CPAP pressure or breathing frequency. There are different variations:

Blender with flowmeter.

The blender is mounted together with a flowmeter on a POM block. The connection to the circuit is a 22M connector.



REF 1085

Blender as single unit.

The blender as a single unit combined with a screwable flowmeter (3 lpm or 15 lpm). The connection to the circuit is a tapped outlet converter.



REF 1085_3
REF 1085_15

Bubble CPAP system.

The Bubble CPAP system is an easy and cheap solution to combine a blender with a mechanical CPAP valve (adjustable from 0.5 to 8 cm H₂O).



Dual clamp 20CL10,
REF 2040



REF 1085_15

We recommend using always a water column (REF 1050) in combination with the blenders.



Medijet®

REF 1000

[Active nCPAP generator]



The Medijet® is an active CPAP generator with low noise design and can be used for drug inhalation.

For a most effective nCPAP therapy the Medijet® is a perfect combination with the drivers sindi and medin-CNO. The system has to be used with Medin prongs and masks.

The Medijet® is also available as a reusable version. The nasal connector is not adjustable, therefore two different versions (45° = REF 1020 and 60° = REF 1010).

technical data & facts

Connectors	flow and pressure
Working principle	Benveniste valve
CPAP level setting	0 to 10 cm H ₂ O
Noise level 5 cm H ₂ O	7,0 l/min
Volume reservoir ml	4ml - constant flush
Drug inhalation port	Yes - 6,0 ID
Nasal connector 45° and 60°	Changeable
Packing unit	20



REF 1010



REF 1020

Miniflow®

REF 4000

[Nasal nCPAP-generator]



Miniflow® is a patient interface for the CPAP mode of ventilators. It can be connected to the inspiration and expiration tubes and thus to the ventilator. The ventilator adjusts and controls the CPAP parameter and provides the necessary gas flow.

This combination makes a very effective therapy at a low noise level.



Masks and Prongs

[Medijet® · Miniflow®]

Masks



REF see table >>

The masks have to be used in combination with the Medijet® or the Miniflow®. All masks are made of silicone. For choosing the correct size use the Medin measuring tape.

technical data & facts

Size	small	medium	large	x-large
REF	1200-04	1200-05	1200-06	1200-07
Mask width nose [mm]	18,5	21,0	23,0	26,0
Binasal diaphragm	yes	yes	yes	yes
Packaging unit	10	10	10	10

Prongs



REF see table >>

The prongs have to be used in combination with the Medijet® or the Miniflow®. All prongs are made of silicone. For choosing the correct size use the Medin measuring tape.

technical data & facts

Size	micro	small	medium	large	x-large	large wide
REF	1200-01	1200-21	1200-02	1200-22	1200-03	1200-33
Nostril AD [mm]	3	3,5	4,1	4,75	5,5	5
Packaging unit	10	10	10	10	10	10

Bonnets

Bonnets · Disposable



REF see table >>

The bonnets are the most important connection to the baby.

Only with these bonnets you can realize a perfect fixation of the prongs and masks. There are different sizes available. The correct size is measured by our measuring tape (REF 2150).

Material: 95% Polyamid, 5% Elasthan

technical data & facts

Size	XS	S	M	L	XL	XXL	XXXL
REF	1214-10	1215-10	1216-10	1217-10	1218-10	1219-10	1220-10
Head circumferences [cm]	19 - 21	21 - 23	23 - 25,5	25,5 - 28	28 - 30	30 - 33	33 - 36
Packaging unit	10	10	10	10	10	10	10

Bonnets · Reusable



REF see table >>

technical data & facts

Size	XS	S	M	L	XL	XXL	XXXL	XXXXL
REF	1214	1215	1216	1217	1218	1219	1220	1221
Head circumferences [cm]	19 - 21	21 - 23	23 - 25,5	25,5 - 28	28 - 30	30 - 33	33 - 36	36 - 46
Packaging unit	1	1	1	1	1	1	1	1

Measuring tape

REF 2150

The measuring tape is the best way to choose the correct size.



Sets

[Generator + Masks + Prongs + Bonnets]

Medin offers different sets for Medijet® and Miniflow®. These sets combine our generator, masks, prongs and bonnets in different sizes. Some of the sets also have circuits.

A set makes it easier to start nCPAP therapy. The different sizes can be tried and afterwards the respective sizes can be ordered.

Sets Medijet®											
1000-10			1000-20			1000-30			1000-50		
Pcs.	Article/ Size	REF	Pcs.	Article/ Size	REF	Pcs.	Article/ Size	REF	Pcs.	Article/ Size	REF
10 x	Medijet® 1000	1000	20 x	Medijet® 1000	1000	20 x	Medijet® 1000	1000	2 x	Prong/ x-small	1200-01
1 x	Prong/ micro	1200-01	10 x	Prong/ micro	1200-01	2 x	Prong/ micro	1200-01	3 x	Prong/ small	1200-21
2 x	Prong/ small	1200-21	10 x	Prong/ small	1200-21	4 x	Prong/ small	1200-21	3 x	Prong/ medium	1200-02
2 x	Prong/ medium	1200-02	10 x	Prong/ medium	1200-02	4 x	Prong/ medium	1200-02	3 x	Prong/ large	1200-22
2 x	Prong/ large	1200-22	10 x	Prong/ large	1200-22	4 x	Prong/ large	1200-22	2 x	Prong/ x-large	1200-03
2 x	Prong/ x-large	1200-03	10 x	Prong/ x-large	1200-03	4 x	Prong/ x-large	1200-03	1 x	Prong/ large wide	1200-33
1 x	Prong/ large wide	1200-33	10 x	Prong/ large wide	1200-33	2 x	Prong/ large wide	1200-33	2 x	Mask/ small	1200-04
1 x	Mask/ small	1200-04	10 x	Mask/ small	1200-04	2 x	Mask/ small	1200-04	2 x	Mask/ medium	1200-05
1 x	Mask/ medium	1200-05	10 x	Mask/ medium	1200-05	4 x	Mask/ medium	1200-05	2 x	Mask/ large	1200-06
1 x	Mask/ large	1200-06	10 x	Mask/ large	1200-06	3 x	Mask/ large	1200-06	1 x	Mask/ x-large	1200-07
1 x	Mask/ x-large	1200-07	10 x	Bonnet/ x-small	1214-10	1 x	Mask/ x-large	1200-07	1 x	Measuring tape	2150
1 x	Bonnet/ x-small	1214-10	10 x	Bonnet/ small	1215-10	1 x	Bonnet/ x-small	1214-10			
2 x	Bonnet/ small	1215-10	10 x	Bonnet/ medium	1216-10	2 x	Bonnet/ small	1215-10			
2 x	Bonnet/ medium	1216-10	10 x	Bonnet/ large	1217-10	4 x	Bonnet/ medium	1216-10			
2 x	Bonnet/ large	1217-10	10 x	Bonnet/ x-large	1218-10	4 x	Bonnet/ large	1217-10			
1 x	Bonnet/ x-large	1218-10	10 x	Bonnet/ xx-large	1219-10	4 x	Bonnet/ x-large	1218-10			
1 x	Bonnet/ xx-large	1219-10	10 x	Bonnet/ xxx-large	1220-10	4 x	Bonnet/ xx-large	1219-10			
1 x	Bonnet/ xxx-large	1220-10	1 x	Measuring tape	2150	1 x	Bonnet/ xxx-large	1220-10			
1 x	Measuring tape	2150				20 x	Patient circuit	1207			
						1 x	Measuring tape unit	2150			

Sets Medijet®					
1000-60			1000-70		
Pcs.	Article/ Size	REF	Pcs.	Article/ Size	REF
2 x	Bonnet/ x-small	1214-10	20 x	Medijet® 1000	1000
2 x	Bonnet/ small	1215-10	10 x	Prong/ micro	1200-01
2 x	Bonnet/ medium	1216-10	10 x	Prong/ small	1200-21
2 x	Bonnet/ large	1217-10	10 x	Prong/ medium	1200-02
2 x	Bonnet/ x-large	1218-10	10 x	Prong/ large	1200-22
2 x	Bonnet/ xx-large	1219-10	10 x	Prong/ x-large	1200-03
2 x	Bonnet/ xxx-large	1220-10	10 x	Prong/ large wide	1200-33
1 x	Measuring tape	2150	10 x	Mask/ small	1200-04
			10 x	Mask/ medium	1200-05
			10 x	Mask/ large	1200-06
			10 x	Mask/ x-large	1200-07
			10 x	Bonnet/ x-small	1214-10
			10 x	Bonnet/ small	1215-10
			10 x	Bonnet/ medium	1216-10
			10 x	Bonnet/ large	1217-10
			10 x	Bonnet/ x-large	1218-10
			10 x	Bonnet/ xx-large	1219-10
			10 x	Bonnet/ xxx-large	1220-10
			20 x	Patient circuit	1207

Sets Miniflow®					
4000-10			4000-20		
Pcs.	Article/ Size	REF	Pcs.	Article/ Size	REF
10 x	Miniflow®	4000	20 x	Miniflow®	4000
1 x	Prong/ micro	1200-01	10 x	Prong/ micro	1200-01
2 x	Prong/ small	1200-21	10 x	Prong/ small	1200-21
2 x	Prong/ medium	1200-02	10 x	Prong/ medium	1200-02
2 x	Prong/ large	1200-22	10 x	Prong/ large	1200-22
2 x	Prong/ x-large	1200-03	10 x	Prong/ x-large	1200-03
1 x	Prong/ large wide	1200-33	10 x	Prong/ large wide	1200-33
1 x	Mask/ small	1200-04	10 x	Mask/ small	1200-04
1 x	Mask/ medium	1200-05	10 x	Mask/ medium	1200-05
1 x	Mask/ large	1200-06	10 x	Mask/ large	1200-06
1 x	Bonnet/ x-small	1214-10	10 x	Bonnet/ x-small	1214-10
1 x	Mask/ x-large	1200-07	10 x	Bonnet/ small	1215-10
2 x	Bonnet/ small	1215-10	10 x	Bonnet/ medium	1216-10
2 x	Bonnet/ medium	1216-10	10 x	Bonnet/ large	1217-10
2 x	Bonnet/ large	1217-10	10 x	Bonnet/ x-large	1218-10
1 x	Bonnet/ x-large	1218-10	10 x	Bonnet/ xx-large	1219-10
1 x	Bonnet/ xx-large	1219-10	10 x	Bonnet/ xxx-large	1220-10
1 x	Bonnet/ xxx-large	1220-10	1 x	Measuring tape	2150
1 x	Measuring tape	2150			

Circuits

Circuits							
	Name	Diameter connectors	Inspiration/expiration	Additional connectors	Heated	Accessories	Single use/reuse
1205	Patient circuit	M15/ M7,4	Inspiration	n/a	No	No	Single use
1207	Patient circuit	F22/F22 and F22/M7,4	Inspiration	M15/M15	Yes - for F&P 850	No	Single use
1207 MKI	Patient circuit	F22/F22 and F22/M7,4	Inspiration	M15/M15	Yes - for F&P 850	Chamber	Single use
1210	Patient circuit	F22/F22 and F22/M7,4	Inspiration	n/a	No	No	Single use
1226	Patient circuit	F22/F22 and F22/M7,4	Inspiration	M15/M15	Yes - for F&P 850	No	Single use
1226 MKI	Patient circuit	F22/F22 and F22/M7,4	Inspiration	M15/M15	Yes - for F&P 850	Chamber	Single use
1233	Patient circuit	F22/F22 and F22/M7,4	Inspiration	M15/M15	Yes - for WILAméd PMH 5000	No	Single use
1233 MKI	Patient circuit	F22/F22 and F22/M7,4	Inspiration	M15/M15	Yes - for WILAméd PMH 5000	Chamber	Single use
10010	Nebulize circuit	M4,3/F22	n/a	n/a	No	No	Single use
10020-01	Nebulize circuit for aironeb	M7,4/M10/F7,4	n/a	n/a	No	No	Single use
206746	Patient circuit	2 x F22/F10 and F22/F22	Inspiration and Exp.	3 x M22/M15	Yes (inspiratory)	Water trap / chamber	Single use
206747	Patient circuit	2 x F22/F10 and F22/F22	Inspiration and Exp.	3 x M22/M15	Yes (insp. + exp.)	Chamber	Single use
206748	Patient circuit	2 x F22/F10 and F22/F22	Inspiration and Exp.	3 x M22/M15	Yes (inspiratory)	Water trap	Single use
206749	Patient circuit	2 x F22/F10 and F22/F22	Inspiration and Exp.	3 x M22/M15	Yes (insp. + exp.)	No	Single use
312300	Silicon patient circuit		Inspiration	No	Yes	No	Reusable
312600	Silicon patient circuit		Inspiration	No	No	No	Reusable
314400	Silicon patient circuit		Inspiration	No	No	No	Reusable
2239	Pressure line	M4,3/M4,3	n/a	n/a	No	No	Reusable
9-1912-A	Watertrap						Reusable

All single use circuits contain a pressure line.

■ Medijet®
■ Miniflow®

Accessories



Humidifiers · WILAméd PMH 5000

Micro process-controlled respiratory humidifier for invasive and non invasive ventilation from neonates to adults. Adaptable with inspiratory and dual heated breathing tube systems. For steady check the display shows the actual temperature of the chamber outlet and patient side.

For more information see www.wilamed.de



Humidifiers · Fisher & Paykel MR 850

Aims to provide optimal humidity (37°C, 44 mg/L) for invasive ventilation, noninvasive ventilation, humidified High Flow Therapy oxygen therapy.

For more information see www.fphcare.com

Neonate chamber · Chamber

Neonate chamber · REF 203422

Chamber · REF 203423 - for Pediatric and Adult.

Wheel Stand

Wheelstand · REF 5001

Basket · REF 5010

Rail for mounting · REF 5002



Peak reducer

Required for using the Medijet® in combination with Infant Flow or F/15

REF 2015

Pressure Measurement

A t-piece combined with a pressure line for external pressure measurement

REF 4010

Distributors worldwide



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Austria · Australia · Azerbaijan · Bangladesh · Belarus · Belgium · Canada · China · Columbia · Combined Arab Emirates · Costa Rica · Egypt · Czech Republic · Denmark · Estonia · Finland · France · Germany · Greece · Great Britain · Hong Kong · Hungary · India · Indonesia · Iraq · Iran · Ireland · Israel · Italy · Japan · Jordania · Kazakhstan · Kenya · Kirgistan · Korea · Kuwait · Latvia · Lithuania · Luxembourg · Malaysia · Marocco · Mexico · Moldavia · Netherlands · Norway · Pakistan · Peru · Poland · Russia · Saudi Arabia · Singapore · Slovenia · Slovakia · South Africa · Spain · Sri Lanka · Surinam · Sweden · Switzerland · Syria · Thailand · Taschikistan · Turkey · Ukraine

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Subject to change without notice.