



# prisma30ST

BiLevel ST therapy device



## BiLevel ST therapy with settable target volume

prisma30ST is the device of choice for patients who suffer from respiratory insufficiency, e.g., position-dependent hypoventilation and/or COPD with associated Sleep-Disordered Breathing. A broad pressure range, diverse automatic functions, process-supporting and comfort-enhancing attributes ensure safe, effective and whisper-quiet BiLevel ST therapy Made in Germany.

### Major features at a glance

- Ventilation modes CPAP, APAP, S, S/T, autoS/T, aPCV, T
- Large pressure range 4 – 30 hPa
- Maximum flexibility in BiLevel modes:
  - Additional pressure relief (Bi soft 1/2)
  - Automatic pressure adjustment (autoPDIFF)
  - autoTriLevel for additional, safe breathing comfort
- Settable target volume (300 ml – 2000 ml)
- High level of safety with automatic or permanently set backup frequency
- SCOPES for indication-related pre-settings and quick therapy start
- Deep sleep and respiratory stability indicators for sleep quality assessment
- Diverse comfort functions such as autoSTART, autoSTOP, softSTART, softSTOP, pressure relief softPAP
- Modern connectivity: telemedicine (telemonitoring, telesetting), SD, PSG, LAN
- With smartAQUAcontrol (with use of prismaAQUA): intelligent humidification without extra sensors

### Our software solutions

- **prisma CLOUD**  
The telemedical connection (telemonitoring / telesetting) for experts and patients. Therapy information updated daily, fully automated, accessible from anywhere.
- **prisma APP**  
The prisma APP motivates and supports patients with their therapy
- **prismaTS/prismaTSlab**  
Therapy software for experts:  
For detailed data analysis and remote setting
- **prisma JOURNAL**  
Everything at a glance for patients, with no need to transmit data



## Accessories

<b>Humidifier</b>		<b>Breathing tubes</b>		<b>Modules</b>	
prismaAQUA	WM 29680	<b>Breathing tube</b> Ø 22 mm	WM 24445	prismaCONNECT	WM 29670
<b>Filter</b>		<b>Breathing tube</b> Ø 15 mm	WM 29988	prismaPSG PSG module	WM 29690
Bacteria filter	WM 24476	<b>Breathing tube</b> autoclavable, Ø 22 mm	WM 24667	prismaCHECK SpO <sub>2</sub> module	WM 29390
Set of 12 pollen filters	WM 29652	<b>prismaHYBERNITE, Ø 15 mm</b> heated breathing tube	WM 29083	<b>Modem for prisma CLOUD</b>	WM 31240
<b>Inverter</b>		<b>prismaHYBERNITE, Ø 22 mm</b> heated breathing tube	WM 29067	<b>Software</b>	
24 V, lorry	WM 24617			prismaTS Therapy software complete with USB data cable	WM 93335
12 V, car	WM 24616				
<b>Transport Bags</b>					
prismaBAG basic	WM 29708				
prismaBAG premium	WM 29709				

You'll find more information about our therapy solutions, accessories and mask systems at [loewensteinmedical.de](http://loewensteinmedical.de)

## Technical data

Product class as per Directive 93/42/EEC	IIa	Mean sound pressure/ Operation as per ISO 80601-2-70	about 26,5 dB(A) at 10 hPa
Dimensions (W×H×D)	170 × 135 × 180 mm	CPAP operating pressure range	4 to 20 hPa
Weight	about 1.4 kg	BiLevel operating pressure range	4 to 30 hPa
Temperature range		Target volume	300 ml - 2000 ml
• Operation:	+5 °C to +40 °C	Inspiration time	
• Storage:	-25 °C to +70 °C	• Ti	500 - 4000 ms
Permitted humidity, operation and storage	rel. humidity 10% to 95%, no condensation	• Ti min	500 - 1700 ms
Air pressure range	700 – 1060 hPa corresponds to altitude of 3000 meters	• Ti max	500 - 1700 ms
Diameter of breathing tube	22 mm or 15 mm	• Ti timed	auto, 500 - 1700 ms
Electric rating	max. 40 VA	Trigger Inspiration (Trigger IN) Trigger Expiration (Trigger EX)	auto or can be set at 3 levels auto or can be set at 3 levels
Power consumption in	240V 100 V	Pressure rise (Ramp IN) Pressure reduction (Ramp EX)	can be set at 4 levels can be set at 3 levels
• Operation (therapy):	0.11 A 0.25 A	Backup frequency	0 bpm, 5 - 35 bpm, auto
• Standby:	0.035 A 0.022 A	Pressure accuracy	< 20 hPa ± 0.6 hPa, ≥ 20 hPa ± 0.8 hPa
Classification as per EN 60601-1-1		Peak flow as per ISO 80601-2-70, BiLevel mode, without humidifier	
• Type of protection from electric shock:	protection class II	4.0 hPa	235 l/min
• Level of protection from electric shock:	type BF	10.5 hPa	225 l/min
• Protection from damaging ingress of water and solids:	IP2 I	17.0 hPa	215 l/min
Alarms	leaks, disconnection (tube), apnea, low minute volume, low tidal volume	23.5 hPa	200 l/min
Modes	CPAP, APAP, S, S/T, T, autoS/T, aPCV	25.0 hPa	195 l/min
		30.0 hPa	190 l/min
		Stability of the dynamic pressure (short-term accuracy) for 10 breaths/min as per ISO 17510-1:2007 with use of the 19-mm tube.	
		7.0 hPa	Δp ≤ 0.24 hPa
		10.0 hPa	Δp ≤ 0.28 hPa
		13.5 hPa	Δp ≤ 0.3 hPa
		20.0 hPa	Δp ≤ 0.4 hPa

<b>Device description</b>	<b>Ord. Nr.</b>
prisma30ST	WM 29930



Please refer to the current price list.



**Löwenstein Medical Technology**  
Kronsaalweg 40, 22525 Hamburg  
Germany  
T: +49 40 54702-0  
F: +49 40 54702-461  
info@loewensteinmedical.de  
www.loewensteinmedical.de

**Löwenstein Medical**  
Arzbacher Straße 80, 56130 Bad Ems  
Germany  
T: +49 2603 9600-0  
F: +49 2603 9600-50  
info@hul.de  
www.hul.de

