



# prisma30ST

## BiLevel ST therapy device



### BiLevel ST therapy device with adjustable target volume

prisma30ST is the means of choice for patients who suffer from respiratory insufficiency, e.g., position-dependent hypoventilation and/or COPD, and concurrent SDB (Sleep-Disordered Breathing). Equipped with the unique autoS/T mode with adjustable target volume, autoEPAP and backup frequency, prisma30ST provides comfortable ventilation that quickly leads to lasting treatment success.

- Comfort functions such as autoSTART-STOP and softSTART
- Heated breathing tube prismaHYBERNITE
- Easy-to-use accessories

### Major features

- Ventilation modes CPAP, APAP, S, T, S/T, autoS/T, aPCV
- Broad pressure range (4 – 30 hPa) and several adjustable parameters for greater flexibility in therapy settings
- With automatic or permanently set back up frequency and optional adjustable alarms for leaks, low minute volume, low tidal volume and apnea
- SCOPES (indication-specific pre-settings)
- Identification of periodic breathing, RERA, snoring, hypopnea, apnea and flow limitations
- Optional auto Trigger (Trigger IN and Trigger EX)
- Adaptive inspiratory pressure rise (Ramp IN) and expiratory pressure reduction (Ramp EX)
- High resolution therapy data for up to 14 days and detailed statistics for 366 days
- Therapy software prismaTS for data analysis and remote control
- With SD card and USB port
- Telemedicine connection via modem for prisma CLOUD
- Eight clearly identified analog signals for PSG feed

prismaLINE. A platform to trust

**prismaLINE is the intelligent system solution for treatment of respiratory disorders.**

The prismaLINE represents a new dimension in operating convenience. The combination of a large monitor (touch screen or LED) and smart Graphical User Interface allows more intuitive and faster use than ever before.

This exceptional operating concept is found throughout the prismaLINE portfolio. Every prismaLINE device provides the user with ideal support for all kinds of work processes and for connectivity and accessories too.

prismaLINE offers the right device for every type of therapy in Löwenstein Medical quality: precise, reliable and unheard-of stillness.

prismaLINE: Synonymous with modern sleep therapy Made in Germany.



## Accessories



prismaAQUA – WM 29680  
Humidifier



prismaCONNECT  
WM 29670



prismaPSG – WM 29690  
PSG Module

## Accessories (not shown)

Inverter 24V, lorry – WM 24617

Inverter 12V, car – WM 24616

prismaTS – WM 93335

Therapy software, complete with USB data cable

Bacteria filter – WM 24476

Set of 12 pollen filters – WM 29652

Breathing tube, Ø 22 mm – WM 24445

Breathing tube, Ø 15 mm – WM 29988

Autoclavable breathing tube, Ø 22 mm – WM 24667

Heated breathing tube,

prismaHYBERNITE, Ø 15 mm – WM 29083

prismaHYBERNITE, Ø 22 mm – WM 29067

prisma CHECK, SpO<sub>2</sub> module – WM 29390

Modem for prisma CLOUD – WM 31240

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	Modes	CPAP, APAP, S, S/T, T, autoS/T, aPCV
Dimensions (W×H×D)	170 × 135 × 180 mm	Mean sound pressure/ Operation as per ISO 80601-2-70	about 26,5 dB(A) at 10 hPa (corresponds to sound pressure of 34,5 dB(A))
Weight	about 1,4 kg	CPAP operating pressure range	4 to 20 hPa
Temperature range		BiLevel operating pressure range	4 to 30 hPa
• Operation:	+5 °C to +40 °C	Relative inspiration time: Ti/Tset	25% to 67%
• Storage:	-25 °C to +70 °C	Trigger Inspiration (Trigger IN)	auto or can be set at 3 levels
Permitted humidity, operation and storage	rel. humidity 10 % to 95 %, no condensation	Trigger Expiration (Trigger EX)	auto or can be set at 3 levels
Air pressure range	700 – 1060 hPa corresponds to altitude of 3000 meters	Pressure rise (Ramp IN)	can be set at 4 levels
Diameter of breathing tube	22 mm or 15 mm	Pressure reduction (Ramp EX)	can be set at 3 levels
Electric rating	max. 40 VA	Back up frequency	0 bpm, 5 - 35 bpm, auto
System interface	12V DC max. 10VA	Pressure accuracy	< 20 hPa ± 0,6 hPa, ≥ 20 hPa ± 0,8 hPa
Power consumption in	230V 115V	Peak flow as per ISO 80601-2-70, mode BiLevel, without humidifier	
• Operation (treatment):	0,11 A 0,22 A	4,0 hPa	235 l/min
• Standby:	0,036 A 0,019 A	10,5 hPa	225 l/min
Classification as per EN 60601-1-11		17,0 hPa	215 l/min
• Type of protection from electric shock:	protection class II	23,5 hPa	200 l/min
• Level of protection from electric shock:	type BF	25,0 hPa	195 l/min
• Protection from damaging ingress of water and solids:	IP21	30,0 hPa	190 l/min
Alarms	leaks, disconnection (tube), apnea, low minute volume, low tidal volume	Stability of the dynamic pressure (short-term accuracy) for 10 breaths/min as per ISO 17510-1:2007 with use of the 22-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

## Device description

prisma30ST

## Ord. Nr.

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

