

prisma30ST

BiLevel-ST Therapy with Adjustable Target Volume.

prisma30ST is the device of choice for patients who suffer from respiratory failure, e.g., position-dependent hypoventilation and/or COPD with concurrent sleep-disordered breathing. A broad pressure range, automatic functions and process-supporting and comfort-enhancing features ensure safe, effective and whisper-quiet **BiLevel-ST therapy Made in Germany.**

Major features at a glance

- Modes: CPAP, APAP, S, S/T, autoS/T, T, aPCV
- Large touchscreen and smart menu navigation allows fast and intuitive operation
- Large pressure range 4 – 30 hPa
- Maximum BiLevel flexibility:
 - Additional pressure relief (Bi soft 1/2)
 - Automatically regulated pressure difference (autoPDIFF)
 - autoTriLevel provides additional safe breathing comfort
- Settable target volume (300 ml – 2000 ml)
- Deep sleep and respiratory stability indicators for sleep quality assessment
- High level of safety with automatic or permanently set backup frequency
- SCOPES for indication-specific pre-settings and a fast start to therapy
- Comfort-enhancing functions such as autoSTART, autoSTOP, softSTART, pressure relief softPAP
- Modern connectivity: telemedicine, SD, PSG, LAN
- With smartAQUAcontrol (with use of prismaAQUA): intelligent humidification without extra sensors

Our Software Solutions



- **prisma CLOUD**
The telemedical connection for experts and patients. Information about therapy updated daily, fully automated, from anywhere.
- **prisma APP**
The prisma APP supports and motivates patients to adhere to treatment.
- **prismaTS**
Therapy software for experts. For detailed data analysis and remote settings.



Accessories

Humidifier		Breathing tubes		Modules	
prismaAQUA	WM 29680	Breathing tube Ø 22 mm Ø 15 mm	WM 24445 WM 29988	prismaCONNECT PSG module	WM 29670 WM 29690
Filters		Breathing tube, autoclavable Ø 22 mm		prismaCHECK SpO ₂ module	WM 29390
Bacteria filter	WM 24476	WM 24667		Modem for prisma CLOUD	WM 31240
Set of 12 pollen filters	WM 29652			Software	
Power inverter		prismaHYBERNITE heated breathing tube Ø 22 mm Ø 15 mm		prismaTS therapy software complete with USB data cable	WM 93335
24 V, Truck	WM 24617	WM 29067 WM 29083			
12 V, Auto	WM 24616				
Transport bags					
prismaBAG basic	WM 29708				
prismaBAG premium	WM 29709				

You'll find more information about our therapy solutions, accessories and mask systems at loewensteinmedical.com

Technical data

Product class as per Directive 93/42/EEC	II a	Mean sound pressure level/Operation ISO 80601-2-70	about 26.5 dB(A) at 10 hPa
Dimensions (W x H x D)	170 x 135 x 180 mm	CPAP/APAP operating pressure range	4 to 20 hPa
Weight	about 1.4 kg	BiLevel operating pressure range	4 to 30 hPa
Temperature range • Operation • Transport and Storage	+5 °C to +40 °C -25 °C to +70 °C	Target volume	300 ml - 2.000 ml
Permitted humidity, operation and storage	rel. humidity 10% to 95%, no condensation	Inspiration time • Ti • Ti min • Ti max • Ti timed	500 to 4.000 ms 500 to 1.700 ms 500 to 1.700 ms auto, 500 to 1.700 ms
Pressure range	700 – 1060 hPa corresponds to altitude of 3000 m above sea level	Trigger Inspiration (Trigger IN) Trigger Expiration (Trigger EX)	auto or can be set at 3 levels auto or can be set at 3 levels
Electric rating	max. 40 VA	Pressure rise (Ramp IN) Pressure reduction (Ramp EX)	can be set at 4 levels can be set at 3 levels
System interface	12 V DC max. 10 VA	Backup frequency	0 bpm, 5 to 35 bpm, auto
Power consumption in • Operation (treatment): • Standby:	240 V 100 V 0.11 A 0.25 A 0.035 A 0.022 A	Pressure accuracy	<20 hPa ± 0.6 hPa, ≥ 20 hPa ± 0.8 hPa
Classification as per EN 60601-1-11 • T type of protection from electric shock: • Level of protection from electric shock: • Protection from damaging ingress of water and solids:	protection class II type BF IP21	Highest flow as per ISO 80601-2-70, mode BiLevel, without humidifier	4.0 hPa 235 l/min 10.5 hPa 225 l/min 17.0 hPa 215 l/min 23.5 hPa 200 l/min 25.0 hPa 195 l/min
Alarms	leaks, disconnection (tube), apnea, low minute volume, low tidal volume	Stability of dynamic pressure (short-term accuracy) at 10 breaths/min as per ISO 17510-1:2007 with 22-mm breathing tube	7.0 hPa Δp ≤ 0.24 hPa 10.0 hPa Δp ≤ 0.28 hPa 13.5 hPa Δp ≤ 0.30 hPa 20.0 hPa Δp ≤ 0.40 hPa
Modes	CPAP, APAP, S, S/T, autoS/T, T, aPCV		

Device description

Article Nr.

prisma30ST WM 29930

CE 0197

Please refer to the current price list.



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