



# Ventilation

Mobile and stationary: safety ensured by specialized technology



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Safe and sound ventilation at all times

When the respiratory system is ravaged by disease or injured in an accident, ventilation of the lungs can be impaired to a life-threatening degree. We develop reliable, customized technologies that restore proper ventilation and unload the respiratory pump. Patient safety, effective treatment and operating convenience are our prime concerns. Our work results in products that automatically ventilate in response to patient needs and thereby offer maximum support to patients and assistance to medical personnel.

## Our innovative features



**AirTrap Control:**  
Pressure relief to prevent dynamic hyperinflation



**LIAM (Lung Insufflation Assist Maneuver):**  
Secretion management with cough support



**Trigger lockout:**  
Effective protection from auto triggering and trigger artefacts



**1/2/3 Ventilation programs:**  
Flexibility and convenience with up to three different ventilation programs



**Expiratory ramp:**  
Increase in expiratory volume with splint to hold airways open



**Target Volume:**  
Optimum tidal volume ensures safety and stability

Diseases

Neuromuscular diseases, e.g.,

- Amyotrophic Lateral Sclerosis (ALS)
- Muscular dystrophy
- Spinal muscular atrophy
- Post-Polio Syndrome

Restrictive disorders, e.g.,

- Thorax deformities (kyphoscoliosis)
- Post tuberculosis Syndrome
- Interstitial lung diseases

Obstructive respiratory disorders, e.g.,

- COPD
- OHS

Therapy devices

IV / NIV



prisma VENT30-C + prisma VENT40  
Mobility and comfort at every level

- Simplest use with intuitive menus, easy operation and quick access
- Whisper-quiet ventilation provides more comfort and well-being for patient and partner
- Suitable for invasive and non-invasive ventilation
- Helpful functions for COPD treatment: AirTrap Control, Expiratory ramp and Trigger lockout
- With autoST mode (autoEPAP, autoF) and target volume
- Integrated oxygen connection
- Three ventilation programs can be set and stored



prisma VENT50  
High-level ventilation

- Simplest use with intuitive menus, easy operation and quick access
- Whisper-quiet ventilation provides more comfort and well-being for patient and partner
- Suitable for invasive and non-invasive ventilation
- Helpful functions for COPD treatment: AirTrap Control, Expiratory ramp and Trigger lockout
- Broad range of disorders can be treated with leakage circuit and single patient circuit with patient valve
- With autoST mode (autoEPAP, autoF) and target volume
- Integrated secretion management, cough support LIAM
- Mouthpiece ventilation
- Integrated oxygen connection
- Three ventilation programs can be set and stored



VENTIlogic LS  
For life-supporting ventilation

- All circuit systems can be used: single or double circuit with patient valve and leakage circuit
- Pressure and volume-controlled ventilation modes
- Mobility design for use at home and in hospital
- Three ventilation programs can be set and stored.

NIV



prisma30ST  
NIV: BiLevel ST therapy with target volume

- Combination of touch screen and smart user interface ensures fast and intuitive operation
- Makes versatile treatment possible

Therapy analysis



prismaTS and prismaTSlab  
For fast and flexible patient management

prismaTS offers adaptable patient management and a quick summary or detailed analysis of therapy. The software solution also provides fast and easy assignment of patients to devices. Other innovations include an optimized therapy calendar and patient files, plus an improved summary of the course of nighttime therapy. Detailed information can be called up at any time.

# Overview of ventilators



	Functions	prisma30ST	prisma VENT30-C	prisma VENT40	prisma VENT50	VENTIlogic LS
Type of ventilation	Non-invasive ventilation	✓	✓	✓	✓	✓
	Invasive ventilation	—	✓	✓	✓	✓
Hose system	Leakage circuit	✓	✓	✓	✓	✓
	Single patient circuit with patient valve	—	—	—	✓	✓
	Double patient circuit with patient valve	—	—	—	—	✓
Device features	Max. inspiration pressure	30 hPa	30 hPa	40 hPa	50 hPa	45 hPa
	EPAP / PEEP pressure range	4 – 25 hPa	4 – 25 hPa	4 – 25 hPa	4 – 25 hPa (leakage circuit) 0 – 25 hPa (valve system)	4 – 20 hPa (leakage circuit) 0 – 20 hPa (valve system)
	Tidal volume	300 – 2000 ml	100 – 2000 ml	100 – 2000 ml	100 – 2000 ml	50 – 3000 ml
	Respiratory frequency	5 - 35 bpm auto, off	0 – 60 bpm	0 – 60 bpm	0 – 60 bpm	5 – 45 bpm
Ventilation modes	Leakage mode	CPAP, APAP, S, S/T, autoST, T	CPAP, S, ST, autoST, T	CPAP, S, ST, autoST, T	CPAP, S, ST, autoST, T	CPAP, S, ST, T
	Pressure-controlled modes	aPCV	PSV, aPCV, PCV	PSV, aPCV, PCV	PSV, aPCV, PCV, MPVp	PSV, PCV, aPCV, SIMV, MPVp
	Volume-controlled modes	—	—	—	MPVv	VCV, aVCV, MPVv
Special therapy options	LIAM	—	—	—	✓	✓
	AirTrap Control	—	✓	✓	✓	✓
	Trigger lockout	—	✓	✓	✓	✓
	Pressure rise / Pressure fall	✓	✓	✓	✓	✓
	Target volume	✓	✓	✓	✓	✓
O <sub>2</sub> feed	Oxygen supply	max. 15 l/min (feed to mask/T-shaped piece)	integrated (15 l/min, max. 1 bar)	integrated (15 l/min, max. 1 bar)	integrated (15 l/min, max. 1 bar)	integrated (15 l/min, max. 1 bar)
Monitoring	Ventilation parameters	✓	✓	✓	✓	✓
	Ventilation programs	—	3	3	3	3
	Real-time curves	—	✓	✓	✓	✓
	Loops	—	—	—	—	✓
	Expiration volume	—	—	—	—	✓
	FiO <sub>2</sub>	—	—	—	—	optional
	Technical / physiological alarms	✓	✓	✓	✓	✓
	PC software	prisma TS/TSlab (WM 93331)	prisma TS/TSlab (WM 93331)	prisma TS/TSlab (WM 93331)	prisma TS/TSlab (WM 93331)	VENTIviews
Remote control software	prisma TS/TSlab (WM 93331)	prisma TS/TSlab (WM 93331)	prisma TS/TSlab (WM 93331)	prisma TS/TSlab (WM 93331)	—	
Power supply with rechargeable battery	External battery	—	—	—	—	Removable battery, at least 4.5 h
	Internal battery	—	12 h (optional)	12 h (optional)	12 h (optional)	at least 4.5 h



	Accessories	prisma30ST	prisma VENT30-C	prisma VENT40	prisma VENT50	VENTiLogic LS
<b>Humidifier</b>	Humidifier	prismaAQUA WM 29480	prismaAQUA WM 29490 (for non-invasive ventilation only)	prismaAQUA WM 29490 (for non-invasive ventilation only)	prismaAQUA WM 29490 (for non-invasive ventilation only)	third-party humidifier only
<b>O<sub>2</sub> supply</b>	Oxygen coupling	—	WM 30669	WM 30669	WM 30669	WM 27166
	Set O <sub>2</sub> measurement	—	—	—	—	WM 15732
<b>Hose system</b>	Leakage circuit	WM 24445	WM 23962	WM 23962	WM 23962	WM 24130
	Leakage circuit (autoclavable)	WM 24667	WM 24667	WM 24667	WM 24667	WM 24120
	Single patient circuit with patient valve	—	—	—	WM 27181	WM 27181
	Double patient circuit with patient valve	—	—	—	—	WM 27182
<b>Bacteria filter</b>	Bacteria filter (leak)	WM 24476	WM 27591	WM 27591	WM 27591	WM 24148 (Click tubes) WM 27591 (Standard tubes, Adapter WM 15880 required)
	Bacteria filter (valve)	—	—	—	WM 27591	WM 27591
<b>External power supply</b>	Removable battery	—	—	—	—	WM 27880 at least 4.5 h
	DC/AV converter	(12, 24 V) WM 24616 / WM 24617	(12, 24 V) WM 24616 / WM 24617	(12, 24 V) WM 24616 / WM 24617	(12, 24 V) WM 24616 / WM 24617	(12, 24 V) WM 24616 / WM 24617
<b>Evaluation</b>	PSG connection	prismaPSG (WM 29690) (via prismaCONNECT, WM 29670)	prismaPSG (WM 29690) (via prismaCONNECT, WM 29670)	prismaPSG (WM 29690) (via prismaCONNECT, WM 29670)	prismaPSG (WM 29690) (via prismaCONNECT, WM 29670)	Analog box WM 27560
<b>Monitoring</b>	Remote alarm	VENTIremote alarm (WM 27745) (via prismaCHECK WM 29390)	VENTIremote alarm (WM 27745) (via prismaCHECK WM 29390)	VENTIremote alarm (WM 27745) (via prismaCHECK WM 29390)	VENTIremote alarm (WM 27745) (via prismaCHECK WM 29390)	VENTIremote alarm WM 27745
	Nurse call connecting cable	WM 27780 (10m) WM 27790 (30m) (via prismaCHECK, WM 29390)	WM 27780 (10m) WM 27790 (30m) (via prismaCHECK, WM 29390)	WM 27780 (10m) WM 27790 (30m) (via prismaCHECK WM 29390)	WM 27780 (10m) WM 27790 (30m) (via prismaCHECK WM 29390)	WM 27780
	SpO <sub>2</sub> module	prismaCHECK WM 29390	prismaCHECK WM 29390	prismaCHECK WM 29390	prismaCHECK WM 29390	WM 27280
<b>Transport</b>	Rolling stand / trolley	—	WM 27855	WM 27855	WM 27855	WM 27860
	Carrying bag	—	WM 30633	WM 30633	WM 30633	WM 27976
	Transport bag	prismaBAG basic (WM 29659), primaBAG premium (WM 29977)	prismaBAG advanced WM 29337	prismaBAG advanced WM 29337	prismaBAG advanced WM 29337	WM 27106

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