



# 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



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 (only available for prisma VENT40)
- Integrated oxygen connection
- Three ventilation programs can be set and stored



prisma VENT50 + prisma VENT50-C

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
- prisma VENT50-C is equipped with High-Flow Therapy mode (HFT). In HFT mode the device provides a constant flow from 5 to 60 liters per minute.
- 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

IV / N / V

# Overview of ventilators



	Functions	prisma VENT30-C	prisma VENT40	prisma VENT50 / prisma VENT50-C
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	40 hPa	50 hPa
	EPAP / PEEP pressure range	4 – 25 hPa	4 – 25 hPa	4 – 25 hPa (leakage circuit) 0 – 25 hPa (valve system)
	Tidal volume	100 – 2000 ml	100 – 2000 ml	100 – 2000 ml
	Respiratory frequency	0 – 60 bpm	0 – 60 bpm	0 – 60 bpm
Ventilation modes	Leakage mode	CPAP, S, ST, autoST, T	CPAP, S, ST, autoST, T	CPAP, S, ST, autoST, T
	Pressure-controlled modes	PSV, aPCV, PCV	PSV, aPCV, PCV	PSV, aPCV, PCV, MPVp
	Volume-controlled modes	—	—	MPVv
Special therapy options	LIAM	—	—	✓
	AirTrap Control	✓	✓	✓
	Trigger lockout	✓	✓	✓
	Pressure rise / Pressure fall	✓	✓	✓
	Target volume	✓	✓	✓
	HFT-Therapy	—	—	✓ only for prisma VENT50-C
O <sub>2</sub> feed	Oxygen supply 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
	Real-time curves	✓	✓	✓
	Loops	—	—	—
	Expiration volume	—	—	—
	FI <sub>O<sub>2</sub></sub>	—	—	—
	Technical / physiological alarms	✓	✓	✓
	PC software	prisma TS/TSlab (WM 93331)	prisma TS/TSlab (WM 93331)	prisma TS/TSlab (WM 93331)
Remote control software	prisma TS/TSlab (WM 93331)	prisma TS/TSlab (WM 93331)	prisma TS/TSlab (WM 93331)	
Power supply with rechargeable battery	External battery	—	—	—
	Internal battery	12 h (optional)	12 h (optional)	12 h (optional)



	Accessories	prisma VENT30-C	prisma VENT40	prisma VENT50/ prisma VENT50-C
Humidifier	Humidifier (for non-invasive ventilation only)	prismaAQUA, WM 29490 prisma VENT AQUA, 100506	prismaAQUA, WM 29490 prisma VENT AQUA, 100506	prismaAQUA, WM 29490 prisma VENT AQUA, 100506 HFT for prisma VENT50-C only
	O <sub>2</sub> supply	WM 30669	WM 30669	WM 30669
Hose system	Leakage circuit	WM 23962	WM 23962	WM 23962
	Leakage circuit (autoclavable)	WM 24667	WM 24667	WM 24667
	Single patient circuit with patient valve	—	—	WM 27181
	Double patient circuit with patient valve	—	—	—
Bacteria filter	Bacteria filter (leak)	WM 27591	WM 27591	WM 27591
	Bacteria filter (valve)	—	—	WM 27591
External power supply	Removable battery	—	—	—
	DC/AV converter	(12, 24 V) WM 24616 / WM 24617	(12, 24 V) WM 24616 / WM 24617	(12, 24 V) WM 24616 / WM 24617
Evaluation	PSG connection	prismaPSG (WM 29690) (via prismaCONNECT, WM 29670)	prismaPSG (WM 29690) (via prismaCONNECT, WM 29670)	prismaPSG (WM 29690) (via prismaCONNECT, WM 29670)
Monitoring	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)
	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)
	SpO <sub>2</sub> module	prismaCHECK WM 29390	prismaCHECK WM 29390	prismaCHECK WM 29390
Transport	Rolling stand / trolley	WM 27855	WM 27855	WM 27855
	Carrying bag	WM 30633	WM 30633	WM 30633
	Transport bag	prismaBAG advanced WM 29337	prismaBAG advanced WM 29337	prismaBAG advanced WM 29337

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