Flow	± (2 L/min + 10 % of the actual reading) (BTPS)
Log	
Type	Alarm, Operation
Max number	5000
O_2 Sensor	
Type	Galvanic fuel cell
Response time	< 15 s
Communication interface	
Communication interface	Rs232, Ethernet, VGA, USB port, Nurse call
Gas supply	
Gas type	O_2
Pipe Connector	NIST or DISS
Gas supply pressure	280 - 600 kPa
Peak flow in case of single supply gas(wt)	> 210 L/min (BTPS)**
Operation Data	
Environmental specifications	
Temperature	5 - 40 °C (operating); -20 to 60 °C (storage and transport, O_2 sensor: -20 to 50°C)
Relative Humidity	10 - 95 % (operating); 10 - 95 % (storage and transport)
Barometric Pressure	62 - 106 kPa (operating); 50 -106 kPa (storage and transport)
Power and Battery Backup	
External AC power supply	
Input voltage	100 - 240 V
Input frequency	50/60 Hz
Input current	2.7 - 1.1 A
Fuse	T3.15 AH/250 V
External DC power supply	
Input voltage	12 V
Input current	15 A
Internal battery	
Number of batteries	One or Two
Battery type	Build-in Lithium-Ion battery. 14.8 VDC, 5800 mAh
Battery run time	180 min (Powered by one new fully - charged battery in standard working condition)* 360 min (Powered by two new fully, - charged battery in standard working condition)
Trolley	
Dimensions	1039 mm*528 mm*544 mm
Weight	Approximately 20 kg
Special Functions and procedures	
Sigh	
100% O_2	
Suction	
Manual breath	
Expiratory hold	
Inspiratory hold	
P0.1	
NIF	
PV - Tool	
PEEPi	
Nebulizer	
O_2 Therapy	

**BTPS = Body Temperature and Pressure Saturated*
***The standard work condition is Ventilation mode:P-A/C; ΔPinsp:10 cmH_2O; f: 10 bpm; Tinsp:2 s; Tslope:0.2 s; O_2%:21 Vol.%; PEEP:5 cmH_2O; R:20 cmH_2O/L/s; C:20 ml/cmH_2O; Gas supply nominal work pressure:400±100 kPa.*

www.mindray.com

mindray
healthcare within reach

mindray

SV300
Ventilator

Technical Specifications

Physical Specification		
Dimensions	354 mm*315 mm*249 mm (Excluding the trolley)	
Weight	Approximately 10 kg (Excluding the trolley)	
Screen		
Display Size	12.1 Color active matrix TFT touch	
Display Resolution (H) x (V)	1280*800 pixels	
Brightness	Adjustable	
Ventilation Specifications		
Patient Type	Adults, children, infants (body weight of at least 3 kg)	
Ventilation Mode	V-A/C (Volume assist/control) P-A/C (Pressure assist/control) V-SIMV (Volume - Synchronized Intermittent Mandatory Ventilation) P-SIMV (Pressure - Synchronized Intermittent Mandatory Ventilation) Dual-Level (Duo Level Ventilation) CPAP (Continuous Positive Airway Pressure) PSV (Pressure Support Ventilation) APRV (Airway Pressure Release Ventilation) PRVC (Pressure Regulated Volume Control) PRVC-SIMV (Pressure Regulated Volume Control)-Synchronized Intermittent Mandatory Ventilation) AMV (Adaptive Minute Ventilation) NIV (Non-Invasive Ventilation) Apnea Ventilation	
Controlled Parameters		
O_2%	21 - 100% (increments of 1 %)	
TV(Tidal Volume)	Adult: 100 - 2000 mL (increments of 10 mL) Pediatric: 20 - 300 mL (increments of 1 mL)	
MV%	25% to 350%	
f (Ventilation frequency)	1 - 100 bpm (increments of 1 bpm)	
fSIMV (Ventilation frequency in SIMV mode)	1 - 60 bpm (increments of 1 bpm)	
I:E range	4:1 - 1:10 (increments of 0.5)	
Tinsp (Inspiratory time)	0.20 - 10 s (increments of 0.05 s)	
Tslope (Time of Pressure Rising)	0 - 2.00 s (increments of 0.05 s)	
Thigh	0.2 - 30 s (increments of 0.1 s)	
Tlow	0.2 - 30 s (increments of 0.1 s)	
Tpause	5 % - 60 % (increments of 5 %), Off	
ΔPaap	5 - 80 cmH_2O (increments of 1 cmH_2O)	
ΔPsupp	0 - 80 cmH_2O (increments of 1 cmH_2O)	
PHigh	0 - 80 cmH_2O (increments of 1 cmH_2O)	
Flow	0 - 45 cmH_2O (increments of 1 cmH_2O)	
PEEP	1 - 45 cmH_2O (increments of 1 cmH_2O), Off	
Flow trigger	0.5 - 15 L/min (increments of 0.1 L/min), Off	
Pressure trigger	-10 to - 0.5 cmH_2O (increments of 0.5 cmH_2O), Off	
Exp % (Expiration termination level)	10 - 65% (increments of 5%), Auto	
Apnea Ventilation		
Tvapnea	Adult: 100 - 2000 mL (increments of 10 mL)	Pediatric: 20 - 300 mL (increments of 1 mL)
ΔPapnea	5 - 80 cmH_2O (increments of 1 cmH_2O)	
fapnea	1 - 80 bpm (increments of 1 bpm)	
Apnea Tinsp	0.20 - 10 s (increments of 0.05 s)	

Sigh	
Sigh Switch	ON, Off
Interval	20 s - 180 min (increments of 1 s from 20 to 59 s, increments of 1 min from 1 to 180 min)
Cycles Sigh	1 - 20 (increments of 1)
ΔintPEEP	1 - 45 cmH_2O (increments of 1 cmH_2O), Off
Automatic Tube Resistance Compensation	
Tube Type	ET Tube, Trach Tube, Disable ATRC
Tube ID:	Adult: 5.0 - 12.0 mm (increments of 0.5 mm) Pediatric: 2.5 - 8.0 mm (increments of 0.5 mm)
Compensate	0 - 100 % (increments of 1 %)
Expiration Compensation Switch	ON, Off
Monitored parameters	
Airway pressure range	Ppeak, Pplat, Pmean, PEEP (Range 0 - 120 cmH_2O)
Tidal volume range	TVi, TVe, TVe spn (Range 0 - 4000 mL)
Frequency range	ftotal, fmand, fspn (Range 0 - 200 bpm)
Minute volume range	MV, MVspn, MVleak (Range 0 - 100 L/min)
Resistance	Rinsp, Rexp (0 - 600 cmH_2O/L/s)
Compliance	Cstat, Cdyn (0 - 300 mL/cmH_2O)
Inspired Oxygen (FiO_2)	15 - 100 %
RSBI	0 - 999 1/(L·min)
WOB	0 - 100 J/min
P0.1	-20 - 0 cmH_2O
NIF	-45 - 0 cmH_2O
PEEPi	0 - 80 cmH_2O
RCexp	0 - 10 s
TVe/IBW	0 - 50 ml/kg
I:E	100:1 - 1:150
Tinsp	0.00 - 60.00 s
Waveforms	Airway pressure - time, Flow - time, Volume - time
Loops	Paw - Volume, Flow - Volume, Paw - Flow
Ventilator Accuracy	
Control Accuracy	
O_2 %	± (3 vol % + 1 % of setting)
TV	± (10 mL + 10 % of setting) (BTPS)
Tinsp	± 0.1 s or ± 10 % of setting, whichever is greater
I:E	2: 1 to 1:4: ± 10 % of setting, other range: ± 15% of setting
f	± 1 bpm
fSIMV	± 1 bpm
Tslope	± (0.2 s + 20 % of setting)
PEEP	± (2.0 cmH_2O + 5 % of setting)
ΔPinsp	± (2.0 cmH_2O + 5 % of setting)
ΔPsupp	± (2.0 cmH_2O + 5 % of setting)
Phigh	± (2.0 cmH_2O + 5 % of setting)
Plow	± (2.0 cmH_2O + 5 % of setting)
Thigh	± 0.2 s or ± 10 % of setting, whichever is greater
Tlow	± 0.2 s or ± 10 % of setting, whichever is greater
Pressure Trigger	+ (1.0 cmH_2O + 10 % of setting)
Flow Trigger	± (1.0 L/min + 10 % of setting)
ΔintPEEP	± (2.0 cmH_2O + 5% of setting)
Exp %	± 10 %
fapnea	± 1 bpm
ΔPapnea	± (2.0 cmH_2O + 5 % of setting)
TVapnea	± (10 mL + 10 % of setting) (BTPS)
Apnea Tinsp	+ 0.1 s or ± 10% of setting, whichever is greater

Monitoring Accuracy			
Airway pressure (Ppeak, Pplat, Pmean, PEEP)		± (2 cmH_2O + 4 % of the actual reading)	
Tidal Volume (TVi, TVe, TVe/IBW, TVe spn)		0 ml - 100 ml: ± (10 ml + 3 % of the actual reading) (BTPS); 100 ml - 4000 ml: ± (3 ml + 10 % of the actual reading) (BTPS)	
Minute Volume (MV, MVspn, MVleak)		± (0.2 L/min + 10 % of the actual reading) (BTPS)	
Frequency (ftotal, fmand, fspn)		± 5% of reading or ± 1bpm, whichever is greater	
Inspired Oxygen (FiO_2)		+ (2.5 vol% + 2.5 % of the actual reading)	
Resistance		0 to 20: ± 10 cmH_2O/L/s Other range: 50 % of actual reading	
Compliance		+ (2 ml/cmH_2O + 20 % of the actual reading)	
RSBI		± (3 1/(L·min)+15 % of the actual reading)	
WOB		± (1 J/min + 15 % of the actual reading)	
NIF		± (2 cmH_2O + 4 % of the actual reading)	
P0.1		± (2 cmH_2O + 4 % of the actual reading)	
PEEPi		No declaration	
RCexp		± (0.2 s + 20 % of the actual reading)	
Alarm settings			
Tidal Volume	High	Adult: 110 - 4000 mL, Off	Pediatric: 25 - 600 mL, Off
	Low	Adult: 50 - 4000 mL Off	Pediatric: 10 - 600 mL, Off
Minute Volume	High	Adult: 0.2 - 100.0 L/min	Pediatric: 0.2 - 60.0 L/min
	Low	Adult: 0.1 - 50.0 L/min	Pediatric: 0.1 - 30.0 L/min
Air pressure	High	10 - 85 cmH_2O	
Frequency	High	1 - 150 bpm, Off	
Inspired oxygen (FiO_2)	High	Auto, FiO_2 exceeds the alarm limit for at least 30 s. Internal alarm limit: min (set value+max (7 % or set value* 10 %), 100 %)	
	Low	Auto, FiO_2 lower than the alarm limit for at least 30 s. Internal alarm limit: max (set value-max (7 % or set value* 10 %),18 %). Absolute FiO_2 low limit: 18 %	
Apnea alarm time		5 - 60 s	
SideStream CO_2 Module (optional)			
Displayed numerics		$EtCO_2$	
Measurement Range		0 - 99 mmHg	
Measurement accuracy		0 to 40 mmHg ± 2 mmHg 41 to 76 mmHg ± 5% of reading 77 to 99 mmHg + 10% of reading	
Waveforms		$EtCO_2$ - time	
Resolution		1 mmHg	
Sampling rate		Adult: 70 ml/min, 100 ml/min, 120 ml/min, 150 ml/min Pediatric: 70 ml/min, 100 ml/min	
Sampling rate Accuracy		± 15% of the set value or ± 15 mL/min, whichever is greater	
System response time		Using Adult water trap, Adult sampling line: ≤ 7.5 s @ 150 ml/min ≤ 8.0 s @ 120 ml/min ≤ 8.5 s @ 100 ml/min ≤ 9.5 s @ 70 ml/min Using Pediatric water trap, Pediatric sampling line: ≤ 7.5 s @ 100 ml/min ≤ 8.0 s @ 70 ml/min	
Rise time		Adult water trap: < 400 ms @70 ml/min < 330 ms @100 ml/min < 300 ms @120 ml/min < 240 ms @150 ml/min Pediatric water trap: < 400 ms @70 ml/min < 330 ms @100 ml/min	
Water trap cleaning time		Adult water trap: ≥ 24 h @150 ml/min ≥ 48 h @70 ml/min Pediatric water trap: ≥ 24 h @100 ml/min ≥ 48 h @70 ml/min	

Sidestream CO_2 alarm limits			
$EtCO_2$	High	2 - 99 mmHg	
	Low	0 - 97 mmHg	
MainStream CO_2 Module (optional)			
Displayed numerics		$EtCO_2$	
$EtCO_2$ Measurement range		0 - 150 mmHg	
$EtCO_2$ Measurement Accuracy		0 to 40 mmHg ± 2 mmHg of reading 41 to 70 mmHg ± 5% of reading 71 to 100 mmHg + 8% of reading 101 to 150 mmHg ± 10% of reading	
Resolution		1 mmHg	
Waveforms		$EtCO_2$ - time, Volume - $EtCO_2$	
Other Parameters			
Slope CO_2 (slope of the alveolar plateau)		Range: 0 - 9.99 %/L	Resolution: 0.01 %/L
Vtalv (Alveolar tidal ventilation)		Range: 0 - 9999 ml	Resolution: 1 ml
Valv (Alveolar minute ventilation)		Range: 0 - 20 L/min	Resolution: 0.01 L/min for < 1 L/min, 0.1 L/min for > 1 L/min
VCO_2 (CO_2 elimination)		Range: 0 - 9999 mL/min	Resolution: 1 ml/min
VDaw (Airway death space)		Range: 0 - 999 mL	Resolution: 1 ml
VDaw/TVe (Physiological dead space fraction at the airway opening)		Range: 0 - 100 %	Resolution: 1 %
$VeCO_2$ (exhaled CO_2 volume)		Range: 0 - 999 mL	Resolution: 1 ml
$ViCO_2$ (inspired CO_2 volume)		Range: 0 - 999 mL	Resolution: 1 ml
System response time		< 2.0 s	
CO_2 alarm limits			
$EtCO_2$	High	2 - 150 mmHg	
	Low	0 - 148 mmHg	
SpO_2 module (optional)			
Measurement Range and Resolution			
SpO_2		Range: 0 - 100 %	Resolution: 1 %
PR		Range: 20 - 254 1/min	Resolution: 1 1/min
PI		Range: 0.05 - 20 %	
Measurement Accuracy			
SpO_2		70 to 100 % ± 2 % 0 % to 69 %: Not specified.	
PR		± 3 1/min	
SpO_2 alarm limits			
SpO_2	High	2 - 100 %	
	Low	0 - 98 %	
	Desat	0 - 99 %	
PR	High	17 - 300 1/min	
	Low	15 - 298 1/min	
Trend			
Type		Tabular, Graphic	
Length		72 hours	
Content		Monitor Parameters, Setting Parameters (Setting Ventilation mode and Parameters)	
O_2 Therapy			
Controlled Parameters			
O_2 %		21 - 100 % (increments of 1 %)	
Flow		2 - 60 L/min	
Controlled Accuracy			
O_2 %		± (3 vol.% + 1 % of setting)	
Flow		± (2 L/min + 10 % of setting) (BTPS)	
Monitor Accuracy			
FiO_2		± (2.5 vol. % + 2.5 % of the actual reading)	

eVolution® 3e Essential

Features

- Comprehensive Graphics and Trending
- High Performance PSOL and Active Exhalation
- Servo Controlled for Precise Breath Delivery
- Neonatal through Adult
- Invasive and Noninvasive
- HL7 Compatibility and Virtual Report
- Capnography ready
- High Flow Oxygen
- 2ml Tidal Volume
- Weaning Target Tool
- Lung Model
- HEPA Filter (standard on Turbine Model)

High Pressure System Ventilator

Internal Turbine System Ventilator

eVent Medical

ML0187 Rev. I, Int'l Version

eVolution® 3e Essential

Modes of Ventilation

- Assisted Control Mandatory Ventilation (CMV)
- Synchronized Intermittent Mandatory Ventilation (SIMV)
- Spontaneous Ventilation (CPAP + PS, CPAP + VS, SPAP)

Additional Features

- Auto Control
- Apnea Backup Ventilation
- SPAP Philosophy Options: Time, Cycle + Time, Cycle +I:E
- IBW Calculator
- NIV On/Off in all Modes
- Active Exhalation Valve
- Automatic Leak Compensation (up to 60 lpm)
- Work of Breathing Imposed
- Maneuvers: PO.1 and PiMax

Breath Types

Volume-controlled	(V-CMV; V-SIMV)
Pressure-controlled	(P-CMV; P-SIMV, PS)
Volume Targeted Pressure-controlled	(PRVC-CMV; PRVC-SIMV, VS)
Dual Level PEEP - Equivalent to APRV & BiLevel	(SPAP)

Breath Triggering

Pressure triggering	-0.1 to (- 20) cmH_2O
Flow triggering	0.1 - 25 lpm

Additional Settings

Respiratory rate	1 - 120 bpm
Tidal volume	20 - 3000 ml
PEEP / CPAP	0 - 50 cmH_2O
Pcontrol	1 - 100 cmH_2O
Psupport	0 - 100 cmH_2O
Peak flow (mandatory)	1 - 150 lpm
Peak flow (spontaneous)	Up to 200 lpm
Peak flow (Turbine Output)	Up to 300 l/min
I-Times	0.2 - 10.0 sec
Oxygen concentration	21 - 100%
Rise time settings	1 - 20
Exhalation sensitivity % (of spontaneous peak flow)	1 - 80%
Base Flow (with leak comp off)	2.5 - 25 lpm
Plateau (insp pause)	0 - 2.0 sec

Neonatal Software Option — Part Number: EVM400156

NCPAP+	
Respiratory Rate	1 - 150 bpm
Tidal volume	2 - 3000 ml
I-Times	0.1 - 10 sec
PS Tmax	0.15 - 5.0 sec

Additional Software Options

Suction support	Part Number: EVM400158
Automatic tube compensation	Part Number: EVM400157
$EtCO_2$	Part Number: EVM400182
Hi FlowO2	Part Number: EVM400184

User Initiated Functions

- Manual inspiration
- Alarm silence
- 100% oxygen
- Inspiratory and expiratory breath holds
- Standby

User Configurable Graphic User Interface (GUI) and Functions

- Multiple Easy View Tabs (Main, Settings, Monitoring, Alarms, Configuration)
- Graphics Display (2-Loops and 3-Waveforms)
- Apnea Back-up
  - User-selected breath type and settings
- Smart Nebulizer™
- Smart Sigh™
- Humidification Selection (HME, Humidifier, and None)
- $EtCO_2$ Graphics Display
- $PaCO_2$ Time Stamp Entry

Monitored / Displayed Data

- Delivered oxygen concentrations: 21 - 100%
- Trend Data (1-72 hrs.) (31 trend parameters)
- Monitoring Data (36 monitored parameters):

Basic	Mechanics	Weaning
- Respiratory Rate	- Auto - PEEP	- Ve Spont
- PEEP + Pplateau	- Pmin	- Vte Spont
- Ppeak & Pmean	- Cdyn	- P0.1 & PiMax
- Exp Min Vol (Ve)	- Cstat	- RSBI
- Vte & Vti	- Cstat / kg	- Rate Spont
- O_2	- Ptrach	- Ti / Ttot
- Te & Ti	- Ri & Re	- Spont % 1h
- PFi & PFe	- Rce	- Spont % 8h
- I:E / H:L	- VT/kg	- PO.1 / PiMax
- Leak		- WOBimp

Real Time Graphics	$EtCO_2$ Graphics	$EtCO_2$	
- Flow Volume Loop	- PCO_2 Volume Loop	- $PetCO_2$	- Vd / Vt
- Pressure Volume Loop	- FCO_2 Volume Loop	- VCO_2 / min	- Valv
- Flow + Time	- PCO_2 +Time	- $VtiCO_2$	- Valv / min
- Presure + Time	- FCO_2 +Time	- $FetCO_2$	- $PeCO_2$
- Volume +Time	- $VteCO_2$ + Time	- Vd ana	- $FeCO_2$
		- Vd alv	

Prioritized Alarms (High, Medium and Low)

- Auto set alarm feature & 1000 Event log

Communication Interfaces

- Ethernet and Nurse call

Physical Data

- AC power: 100 - 240 VAC (47/63Hz)
- Standard internal battery (Lithium-Ion* & Lead Acid**)
- Battery backup: 2 Hours (HP Model), 4 Hours (Turbine Model)
- Gas supply pressure, 2 to 6 Bar
- Screen: LCD 12.1" / Touch Screen

HL7 Protocol Compatibility and Optional Remote Viewing System

- CliniNet® Virtual Report™ Software
- CliniNet® HL7 Gateway™

High Performance Internal Technology

- Integrated high performance turbine technology with included HEPA filter*
- Low Flow O_2 Capability*
- Paramagnetic O_2 Sensor (Optional)

Ordering Information

- Model EVL100500-HP, High Pressure System
- Model EVL100500-T, Internal Turbine System
- Model EVL100500-HP-NF, High Pressure System without Exhalation Filter
- Model EVL100500-T-NF, Internal Turbine System without Exhalation Filter

*Only available on turbine models. **Only available on high pressure models.

Specifications subject to change. eVent Medical recommends using exhalation filters on all systems.

CARACTERÍSTICAS TÉCNICAS
SERVO-air

General	
Uso previsto	El sistema de ventilación SERVO-air: • está indicado para proporcionar soporte respiratorio, monitorización y tratamiento de pacientes pediátricos y adultos. • solo lo pueden usar proveedores de atención sanitaria. • solo se puede usar en instalaciones sanitarias profesionales y para el transporte en estas instalaciones.
Instrucciones de uso	Lea atentamente el manual del usuario.
Fabricante legal	Maquet Critical Care AB
Otros productos	Véanse las hojas de datos independientes. Póngase en contacto con su representante de Maquet para obtener más información.

El ventilador - Generalidades	SERVO-air	SERVO-air en un carrito
Peso del sistema base	15 kg aproximadamente	30 kg aproximadamente • Sistema base: 15 kg aproximadamente • Carrito: 15 kg aproximadamente
Dimensiones de la base (anchura x profundidad), consulte las ilustraciones de dimensiones en la página 15.	232 x 276 mm	645 x 545 mm (ruedas incluidas)
Peso (interfaz de usuario incluida)	461 mm	1310 mm
Ruedas	N/A	Cuatro ruedas con frenos independientes
Nivel de presión sonora ponderada A (L_{pA})	< 49 dB, medido a una distancia de 1 m	
Ponderación A del nivel de potencia acústica (L_{PA})	<57 dB	

CARACTERÍSTICAS TÉCNICAS
SERVO-air

Ventilación - General	
Gama de pacientes:	**Volumen corriente** • Pediátrico: 20 - 350 ml • Adulto: 100 - 2000 ml
Flujo base:	2 l/min ±5 %
Factor de compresión interna:	Máx. 0,1 ml/cmH_2O
Sistema de suministro de gas:	Turbina de aire y válvula de O_2
Presión en las vías respiratorias máxima	100 cmH_2O
Método de disparo:	Flujo y presión
Rango de flujo inspiratorio:	• Adulto: 0 - 240 l/min • Pediátrico: 0 - 80 l/min
Caída de presión:	• Máximo 3 cmH_2O a un flujo de 60 l/s (canal espiratorio)
Regulación de PEEP:	Válvula controlada por microprocesador
Retardo, medición del flujo espiratorio:	< 12 ms para una respuesta del 10 - 90 % a un flujo de 3 - 192 l/min
Rango de flujo espiratorio:	0 - 192 l/min

Interfaz de usuario	
Tipo:	Pantalla táctil TFT-LCD
Tamaño:	300 x 248 mm
Área de visualización:	XGA de 12", 1024x768 píxeles con una paleta de colores de 24 bits

CARACTERÍSTICAS TÉCNICAS
SERVO-air

Condiciones de almacenamiento	
Temperatura:	-25 a +60 °C (-13 a 140 °F)
Humedad relativa:	< 95 %, con condensación
Presión atmosférica:	470 a 1.060 hPa

Estándares - Seguridad y funcionalidad	
CE 0123	Este equipo cumple con los requisitos de la Directiva de equipos médicos 93/42/CEE y para la clasificación IIb. Número de identificación del organismo notificado en la marca CE: 0123.
Clasificación:	CEI 60601-1: 2005 + A1:2012, clase I, funcionamiento continuo Partes aplicadas - El equipo que entra en contacto físico con el paciente y los tubos de gas. Tipo B - Unidad de paciente de nebulizador y cable. Tipo BF
Normas:	• Los componentes a los que se refiere, como el equipo que está en contacto físico con el paciente, se describen en las secciones *Diagrama de flujo del sistema, Ventilación y Conexión al paciente*. • ISO 80601-2-12:2011 • ISO 80601-2-55:2011 • EN 13544-1:2007 + A1:2009
Protección de entrada:	IP 21
Compatibilidad electromagnética (EMC):	• De acuerdo con los límites especificados en IEC 60601-1-2: 2007. • La '*Declaración sobre EMC, Información para la organización responsable*' puede solicitarse a MAQUET.

Pantalla	
Vistas:	• Vista Básico • Vista Avanzado • Vista Bucles • Vista Distancia • Vista Familia Cada una de las vistas del diseño de pantalla ofrece una combinación específica de curvas mostradas, bucles y valores presentados.
Curvas en tiempo real:	• Presión • Flujo • Volumen

CARACTERÍSTICAS TÉCNICAS
SERVO-air

Pantalla	
Bucles:	• Presión - Volumen • Presión - Flujo • Volumen - Flujo Es posible visualizar un bucle de referencia y tres bucles de superposición.

Regímenes de ventilación - Ventilación invasiva	
Ventilación controlada:	• PC (presión controlada) • VC (volumen controlado) • VCRP (volumen controlado con regulación de la presión), opcional
Ventilación asistida:	• PS/CPAP (presión soporte / presión positiva continua en las vías respiratorias) • VS (volumen soporte), opcional
Automode (opcional):	• Régimen de control: VC <—> Régimen de soporte: VS • Régimen de control: PC <—> Régimen de soporte: PS • Régimen de control: VCRP <—> Régimen de soporte: VS
Ventilación combinada:	• SIMV (VC) + PS (ventilación obligatoria intermitente sincronizada) • SIMV (PC) + PS • SIMV (VCRP) + PS (opcional) • Bi-Vent/APRV (ventilación de liberación de presión de las vías respiratorias), opcional

Regímenes de ventilación - Ventilación no invasiva	
Ventilación controlada:	• PC-VNI, opcional
Ventilación asistida:	• PS-VNI, opcional

Ventilación no invasiva		
Nivel máx. de compensación de fugas:	Adultos	25 l/min
	Pediátrico	65 l/min
Flujo de desconexión (configurable):	Bajo	7,5 l/min
	Alto	40 l/min
	Desactivado	Desactiva la detección de desconexión
Detección de conexión:	Manual o automática a través de flujo base	

MAGNAMED

Inovação inteligente para a vida

FLEXIMAG MAX

Diversas possibilidades, uma única escolha.

Ajustes dos Parâmetros

Tipo de paciente	Adulto, Pediátrico e Neonato
Volume corrente	2 a 3.000 ml
Frequência respiratória	0 a 200 rpm
Fluxo inspiratório	1 a 180 L/min
Tempo de subida	0 a 2,0 s
Tempo inspiratório	0,05 a 30 s
Pressão inspiratória	0 a 120 cmH_2O (ou hPa ou mbar)
Peep	0 a 50 cmH_2O (ou hPa ou mbar)
Pressão suporte/ΔPS	0 a 120 cmH_2O (ou hPa ou mbar)
Ciclagem por fluxo (% fluxo de pico)	5 a 80 %
Sensibilidade assistida (Pressão)	0,0 a -20 cmH_2O (ou hPa ou mbar)
Sensibilidade assistida (Fluxo)	0,0 a 30 L/min
Relação I:E	1:599 a 299:1
Concentração O_2	21 a 100%
Tipo de fluxo inspiratório	Quadrada, descendente, ascendente ou senoidal
Pausa inspiratória e expiratória:	0,1 a 30 s

Alarmes

Volume minuto / Volume total	alta/baixa
Frequência respiratória	alta/baixa
Pressão máxima	alta/baixa
Peep	alta/baixa
Tempo de apneia	OFF, 0 a 60 s
Ajustes automáticos de alarmes	OFF, 10%, 20% e 30%
Driving Pressure	alta/baixa

Modos Ventilatórios

VCV / VCV-AC; PCV / PCV-AC; PRVC; PLV; PLV-AC; VG; V-SIMV + PS; P-SIMV + PS; DualPAP / APRV; CPAP/PSV; MMV; VS; CPAP NASAL; VNI; TERAPIA DE O_2

Monitorização

Curva	PxT, FxT e VxT / SpO_2 / CO_2
Loops	PxF, VxF, PxV, $VxCO_2$, $VxFCO_2$
Diferenciação de cor	Fase insp e exp, modos de disparo e janelas
Bargraph	Pressão instantânea
Monitorização opcional	Capnografia e Oximetria
Valor numérico	Volume corrente e Volume minuto; Frequencia respiratória; Tempo inspiratório e expiratório; Pressão máxima, média e platô; Peep; Relação I:E; Monitorización protectora ; Driving pressure.

Interface do Usuário

Tipo e Tamanho	Display sensível ao toque 15"
Peso	23 kg
Dimensões L x A x P	453 x 1427 x 544mm
Comunicação/Interface	Chamada de enfermagem, HDMI, USB, Ethernet RJ-45, RS 232, HL7
Assistência Técnica Remota	Diagnóstico e Assistência remota (ARM)

Especificações das Condições de Operação

Fonte elétrica	100 a 240 V, 50/60 Hz
12 V_{DC} externa	sim (opcional)
Bateria	210 minutos
Entrada de gás O_2	29 a 87 psi (200 a 600 kPa)
Entrada de gás AR	29 a 87 psi (200 a 600 kPa)
Temperatura	-10 a 50°C (14 a 122°F)
Pressão atmosférica	525 a 1.200 cmH_2O (ou hPa ou mbar)
Umidade relativa	15 a 95%

Manobras para Avaliação da Mecânica Respiratória*

P0.1	sim
Capacidade vital lenta	sim
PV flex	sim
PImáx (NIF)	sim
Volume aprisionado	sim

* Exclusivo para paciente pediátrico e adulto.

Outras Funcionalidades

Nebulizador	Sincronizado com a inspiração
Insuflação de Gás Traqueal (TGI)	Sincronizado com a expiração
Tendência	240h
Correção de volume - temperatura e umidade	BTPS
Pressão auxiliar	Com uso balão esofágico ou medição pressão externa

Especificações Gerais

Modo espera (Stand by)	on/off
Ciclos Manuais	sim
Congela os gráficos (Freeze)	sim
Suspiro	sim
Sensor de fluxo	Proximal ou Distal
Turbina (Flow Air)	Max 300 / Max 700

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