

Specifications: V2



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Ventilator

V2



Physical Characteristics

Overall unit (main unit, blower, display and trolley)

Dimensions	528mm*650mm*1316mm (±5%)
Weight	≤46kg
Casters	4 pcs, each equipped with a brake pedal

Main unit

Dimensions	With handle: 307mm*466mm*397mm (±5%) Without handle: 307mm*356mm*382mm (±5%)
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Weight	≤26kg
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Noise	≤45dB
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Ingress protection	IP21
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Screen

Size	12.1" TFT touch capacitive screen
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Resolution	1280*800 pixels
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Adjustable angle	Horizontal: 270° Vertical: 45°
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LED light

External power supply indicator	1
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Power switch indicator	1
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Battery status indicator	1
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Alarm indicator	1
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Ports

HDMI	1
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Network (RJ-45)	1
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Multi-function	1
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USB	4
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Ventilation Mode

Oxygen therapy	HFNC
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Invasive mode (13)

V-A/C, P-A/C, PRVC, CPRV
V-SIMV, P-SIMV, PRVC-SIMV
CPAP/PSV
DuoVent, APRV
VS, PPS, AMV

Non-invasive mode (10)

P-A/C
P-SIMV
CPAP/PSV, PSV-S/T
DuoVent, APRV
PPS
NCPAP, NIPPV, SNIPPV

Ventilator Specification

Control parameters range

O2%	21~100vol.%
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VT	Adult: 100~4000ml Pediatric: 20.0~300ml Neonate: 2.0~100ml
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f	Dual tube: Adult/Pediatric: 1~100bpm Neonate: 1~150bpm
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	Single tube: 1~120bpm
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fsimv	1~60bpm
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Tinsp	0.10~10.00s
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I:E	4:1~1:10
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Tslope	0.00~2.00s
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PEEP	Dual tube: 0~50cmH2O
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	Single tube: 0.0~15.0cmH2O
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Pinsp	Dual tube: 1~80cmH2O
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	Single tube: 2.0~25.0cmH2O
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Psupp	0~80cmH2O
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Phigh	0~80cmH2O		2.0~25.0cmH2O
Plow	0~50cmH2O	Manual Tinsp	0.10~10.00s
Thigh	0.10~30.00s	Comp. f	90~130bpm
Tlow	0.20~30.00s	Backups	OFF, 1~10
F-Trig	Adult/Pediatric: 0.5~20.0L/min Neonate: 0.1~5.0L/min.	Flow type	Square wave Decelerating wave: 0%~75%
P-Trig	-20.0~-0.5cmH2O	Monitoring parameters range	
Insp%	OFF, 1~10	O2%	0 vol.%~100 vol.%
Exp%	Auto, 5%~85%	VT	0.0~9999ml
fapnea	Adult/Pediatric: 1~100bpm Neonate: 1~150bpm	MV	Adult/Pediatric: 0.0~100.0L/min Neonate: 0.0~30.0L/min
Apnea Pinsp	Dual tube: 1~80cmH2O Single tube: 2.0~25.0cmH2O	f	0~200bpm
VTapnea	Adult: 100~4000ml Pediatric: 20.0~300ml Neonate: 2.0~100ml	I:E	150:1~1:150
Apnea Ti	0.10~10.00s	Tinsp	0.00~60.00s
△int.PEEP	OFF, 1~40cmH2O	Paw	-60~120cmH2O
Flow (O2 therapy)	Adult/Pediatric: 2.0~80.0L/min Neonate: 2.0~20.0L/min	PEEP	0.0~120cmH2O
Insp Flow	Adult: 5.0~180.0L/min Pediatric: 5.0~40.0L/min Neonate: 2.0~30.0L/min	Resistance	0~600cmH2O/(L/s)
Tpause(%)	OFF, 5%~60%	Compliance	0~300ml/cmH2O
NCPAP	Dual tube: 0~50cmH2O Single tube: 0.0~15.0cmH2O	RSBI (Rapid Shallow Breathing Index)	0~9999 1/(l•min)
MV%	25%~350%	NIF	-60~0.0cmH2O
Neg Press Lmt (Negative Pressure Limit)	-30~0cmH2O	P0.1	-60~0.0cmH2O
Ti max	0.10~10.00s	PIF	Adult/Pediatric: 0.0~300L/min Neonate: 0.0~30.0L/min
VT-Max	Adult: 100~3500ml Pediatric: 100~300ml	PEF	Adult/Pediatric: 0.0~180L/min Neonate: 0.0~30.0L/min
P-Max	5~40cmH2O	Stress Index	0.50~1.50
E-Max	0~100cmH2O/L	C20/C	0.00~5.00
R-Max	0~50cmH2O/L/s	VCO2 (carbon dioxide output during single breath)	0~200ml
PPV%	0%~100%	VO2 (oxygen consumption during single breath)	0~200ml
Backup frequency	1~120bpm	RCexp	0.00~10.00s
ΔPmanInsp	Dual tube: 1~80cmH2O Single tube:	WOB	0.00~100.00J/min
		EEF	Adult/Pediatric: 0.0~180L/min Neonate: 0.0~30.0L/min
		Flow (O2 Therapy)	0.0~200.0L/min
		Ptpl	-150~150cmH2O
		PtpE	-150~150cmH2O
		ΔPtp	-150~150cmH2O
		ΔPes	-150~150cmH2O
		SpO2/FiO2	65~500

OSI	0.0~30.0cmH ₂ O			Other range: \pm (2cmH ₂ O + 4% of the set value)
RSS	0.00~25.00cmH ₂ O			Single tube:
ROX Index	0.0~500.0			2cmH ₂ O: \pm 0.5cmH ₂ O
Sigh parameters range				Other range: \pm (2cmH ₂ O + 4% of the set value)
Sigh	NO, OFF			
Interval	20s~180min	Psupp		0~2cmH ₂ O: \pm 1cmH ₂ O
Sigh times	1~20			Other range: \pm (2cmH ₂ O + 4% of the set value)
Δ int.PEEP	OFF, 1~40cmH ₂ O	Phigh		0~2cmH ₂ O: \pm 1cmH ₂ O
TRC parameters range				Other range: \pm (2cmH ₂ O + 4% of the set value)
TRC tube type	OFF, ET (Endotracheal tube), Trach tube (Tracheostomy tube)	Plow		0~2cmH ₂ O: \pm 1cmH ₂ O
Tube I.D.	Adult: 5.0~12.0mm Pediatric: 2.5~8.0mm Neonate: 2.5~5.0mm	Thigh		Other range: \pm (2cmH ₂ O + 4% of the set value)
Compensate	1%~100%			0.20~30.00s: \pm 0.2s or \pm 10% of the set value, whichever is greater
Expiration	ON, OFF	Tlow		Other range: \pm 0.05s
Control parameter accuracy				\pm 0.2s or \pm 10% of the set value, whichever is greater
O ₂ %	\pm (3vol.% + 1% of the set value)	F-Trig		Adult/Pediatric:
VT	Adult/Pediatric: 20~4000ml: \pm (10ml + 8% of the set value) Neonate: 2.0~100ml: \pm (1.5ml + 8% of the set value).			0.5~20.0L/min: \pm (1L/min + 10% of the set value)
f	1~100bpm: \pm 1bpm Other range: \pm 2% of the set value	P-Trig		Neonate: 0.1~5.0L/min: \pm (0.2L/min + 10% of the set value).
fsimv	\pm 1bpm	Insp%		\pm (1cmH ₂ O + 10% of the set value)
Tinsp	0.20~10.00s: \pm 0.1s or \pm 10% of the set value, whichever is greater Other range: \pm 0.05s.	Exp%		Not defined
I:E	2:1~1:4: \pm 10% of the set value Other range: \pm 15% of the set value	fapnea		5%~85%: \pm 10% (absolute error) Other range: not defined.
Tslope	0.00~0.10s: \pm 0.05s 0.10~0.20s: \pm 0.1s 0.20~2.00s: \pm 0.2s or \pm 15% of set value, whichever is greater.	Apnea Pinsp		1~100bpm: \pm 1bpm Other range: \pm 2% of set value.
PEEP	Dual tube: 0~2cmH ₂ O: \pm 1cmH ₂ O Other range: \pm (2cmH ₂ O + 4% of the set value) Single tube: 0~2cmH ₂ O: \pm 1cmH ₂ O Other range: \pm (2cmH ₂ O + 4% of the set value)	VTapnea		Dual tube: 1~2cmH ₂ O: \pm 1cmH ₂ O Other range: \pm (2cmH ₂ O + 4% of the set value)
Pinsp	Dual tube: 1~2cmH ₂ O: \pm 1cmH ₂ O	Apnea Ti		Single tube: 2cmH ₂ O: \pm 0.5cmH ₂ O Other range: \pm (2cmH ₂ O + 4% of the set value)
				Adult/Pediatric: 20.0~4000ml: \pm (10ml + 8% of the set value) Neonate: 2.0~100ml: \pm (1.5ml + 8% of the set value)
				0.20~10.00s: \pm 0.1s or \pm 10% of the set value, whichever is greater Other range: \pm 0.05s

△int.PEEP	OFF 1~2cmH ₂ O: ±1cmH ₂ O Other range: ± (2cmH ₂ O + 4% of the set value)		0.0~100ml: ± (10ml + 2% of the actual reading) 100~9999ml: ± (5ml + 7% of the actual reading).
Flow (O ₂ therapy)	±1L/min or ±10% of the set value, whichever is greater.		Neonate: 0.0~9999ml: ±(2ml + 7% of the actual reading).
Insp Flow	±1L/min or ±15% of the set value, whichever is greater.	MV	Adult/Pediatric: 0.00~100.0L/min: ± (0.2L/min + 8% of the actual reading);
Tpause(%)	±5% (absolute error, N/A when the inspiratory pause time is less than 0.1s)		Neonate: 0.00~30.0L/min: ± (0.15L/min+ 7% of the actual reading).
NCPAP	Dual tube: 0~2cmH ₂ O: ±1 cmH ₂ O Other range: ± (2cmH ₂ O + 4% of the set value) Single tube: 0.0~2.0cmH ₂ O: ±0.5cmH ₂ O Other range: ± (2cmH ₂ O + 4% of the set value)	f I:E T _{insp}	±1bpm or ±4% of the actual reading, whichever is greater. ±6% (N/A when either inspiratory time or expiratory time is less than 50ms) ±0.05s
MV%	±10% (absolute error) or ±10% of the set value, whichever is greater.	Paw PEEP	± (2cmH ₂ O + 3% of the actual reading) ± (2cmH ₂ O + 3% of the actual reading)
Neg Press Lmt (Negative Pressure Limit)	± (2cmH ₂ O + 4% of the set value)	Resistance	0~20cmH ₂ O/(l/s): ±10cmH ₂ O/(l/s) 20~500cmH ₂ O/(l/s): ±50% of the actual reading Other range: not defined.
Ti max	Not defined		
VT-Max	± 15% of the set value	Compliance	±10ml/cmH ₂ O or ±20% of the actual reading, whichever is greater.
P-Max	± (2cmH ₂ O + 4% of the set value)	RSBI (Rapid Shallow Breathing Index)	±20 1/(l·min) or ±20% of displayed value, whichever is greater.
E-Max	Not defined	NIF	± (2cmH ₂ O + 3% of the actual reading)
R-Max	Not defined	P0.1	± (2cmH ₂ O + 3% of the actual reading)
PPV%	Not defined	PIF	±1L/min or ±15% of the actual reading, whichever is greater.
Backup frequency	±1bpm	PEF	±1L/min or ±15% of the actual reading, whichever is greater.
ΔP _{manInsp}	Dual tube: 1~2cmH ₂ O: ±1cmH ₂ O; Other range: ± (2 cmH ₂ O + 4% of the set value) Single tube: 2cmH ₂ O: ±0.5cmH ₂ O; Other range: ± (2 cmH ₂ O + 4% of the set value)	Stress Index C20/C	±0.1 ±0.2 or ±10%, whichever is greater.
Manual T _{insp}	0.20~10.00s: ±0.1s or 10% of the set value, whichever is greater Other range: ±0.05s.	VCO ₂ (carbon dioxide output during single breath) VO ₂ (oxygen consumption during single breath)	±15% or ±15ml, whichever is greater. ±15% or ±15ml, whichever is greater.
Comp. f	±10% of the set value	RCexp	± (0.2s + 20% of the actual reading)
Backups	Not defined	WOB	± (1L/min + 15% of the actual reading)
Flow type	Not defined	EEF	±1L/min or ±15% of the actual reading, whichever is greater
Monitoring parameters accuracy			
O ₂ %	± (2.5vol.% + 2% of the actual reading)	Flow (O ₂ Therapy)	±1L/min or ±8% of the actual reading, whichever is greater
VT	Adult/Pediatric:		

PtpI	± (2cmH2O + 3% of the actual reading)
PtpE	± (2cmH2O + 3% of the actual reading)
ΔPtp	± (2cmH2O + 3% of the actual reading)
ΔPes	± (2cmH2O + 3% of the actual reading)
SpO2/FiO2	±65
OSI	± (0.5cmH2O + 10% of the actual reading)
RSS	±0.8cmH2O
ROX Index	Not defined

Ventilator Alarm

VT	High limit: Adult: 110~9999ml, OFF Pediatric: 15~650ml, OFF Neonate: 3~600ml, OFF Low limit: Adult: 50~9995ml, OFF Pediatric: 5~645ml, OFF Neonate: 1~595ml, OFF
MV	High limit: Adult: 0.20 l/min~100.0 l/min Pediatric: 0.20 l/min~60.0 l/min Neonate: 0.02 l/min~30.0 l/min In NCPAP mode, high alarm limit can be set to OFF. Low limit: Adult: 0.10~50.0L/min; Pediatric: 0.10~30.0L/min; Neonate: 0.01~15.0L/min In non-invasive ventilation, low alarm limit can be set to OFF.

FiO2	High limit: min (the set value of oxygen concentration + max (7vol.%, the set value of oxygen concentration × 10%) ,100vol.%) (rounded) Low limit: max (18vol.%, the set value of oxygen concentration - max (7vol.%, the set value of oxygen concentration × 10%)) (rounded)
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Paw	High limit: 10~85cmH2O Low limit: 1~80cmH2O, OFF
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f	High limit: 2~160bpm, OFF Low limit: 1~159bpm, OFF
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Apnea alarm	5~60s
	In NCPAP mode, apnea alarm can be set to OFF.

Endotracheal Cuff Pressure Management Module

Endotracheal cuff pressure control range	0~50cmH2O
Endotracheal cuff pressure control accuracy	0~2cmH2O range: ±1cmH2O Other range: ± (2cmH2O + 4% of the set value)
Endotracheal cuff pressure monitoring range	0~120cmH2O
Endotracheal cuff pressure monitoring accuracy	± (2cmH2O + 3% of the set value)

CO2 Module

Sidestream

CO2 range	Comen sidestream: 0~150mmHg Respironics CapnoTrak sidestream: 0~99mmHg Masimo ISA Capno sidestream: 0~190mmHg
CO2 accuracy	Comen sidestream: 0~40mmHg: ±2mmHg 41~70mmHg: ±5% of the reading 71~100mmHg: ±8% of the reading 101~150mmHg: ±10% of the reading. Respironics CapnoTrak sidestream: 0~38mmHg: ±2mmHg; 38.01~99mmHg: ±10% of the reading. Masimo ISA Capno sidestream: 0~114mmHg: ± (1.52mmHg + 2% of the reading) 114~190mmHg: not defined.

EtCO2 alarm limit	Comen CO2 module: High alarm limit: (low limit + 2) ~150mmHg Low alarm limit: 0~ (high limit - 2) mmHg Respironics CO2 module: High alarm limit: (low limit + 2) ~150mmHg Low alarm limit: 0~ (high limit - 2) mmHg
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	Masimo CO2 module: High alarm limit: (low limit +2) ~190mmHg
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	Low alarm limit: 0~ (high limit – 2) mmHg		Low alarm limit: 0~ (high limit - 2) mmHg
Sampling rate and accuracy	50ml/min (±10ml/min.)		Respironics CO2 module: High alarm limit: (low limit + 2) ~150mmHg
Total system response time	Masimo ISA Capno sidestream: <3s (use a 2m sampling line) Respironics CapnoTrak and Comen sidestream: <4s, including the transport time and rise time of water filter component and airway adapter.		Low alarm limit: 0~ (high limit - 2) mmHg Masimo CO2 module: High alarm limit: (low limit +2) ~190mmHg Low alarm limit: 0~ (high limit – 2) mmHg
Preheat time	Masimo ISA Capno sidestream: <10s Respironics CapnoTrak/Comen sidestream: Obtain the waveform: <10s Reach the full accuracy specification: ≤3min.	Sampling rate and accuracy	Masimo IRMA mainstream: sample rate 20Hz/channel Comen/Respironics mainstream: 100Hz
10% to 90% rise time	Masimo Nomoline ISA sidestream: ≤200ms Respironics CapnoTrak sidestream: ≤410ms Comen sidestream: ≤410ms	Total system response time	<1.0s
Respiratory Rate	0~150bpm (±1bpm)	Preheat time	Comen/Respironics mainstream: Obtain the waveform: <15s Reach the full accuracy specification: ≤2min
Mainstream			Masimo IRMA mainstream: <10s
CO2 range	Comen mainstream: 0~150mmHg Respironics CAPNOSTAT 5: 0~150 mmHg Masimo IRMA mainstream: 0~190mmHg.	Respiratory rate	0~150bpm (±1bpm)
CO2 accuracy	Comen mainstream: 0~40mmHg: ±2mmHg 41~70mmHg: ±5% of the reading 71~100mmHg: ±8% of the reading 101~150mmHg: ±10% of the reading. Respironics CAPNOSTAT 5 mainstream: 0~40mmHg: ±2mmHg 41~70mmHg: ±5% of the reading 71~100mmHg: ±8% of the reading 101~150mmHg: ±10% of the reading. Masimo IRMA mainstream: 0~114mmHg: ± (1.52mmHg + 2% of the reading) 114~190mmHg: not defined.	CO2 derived function	
		VDaw	0~999ml
		VDaw/VTe	0~100%
		ViCO2	0~999ml
		VeCO2	0~999ml
		MVCO2	0~9999 ml/min
		slopeCO2	0~9.99%/l
		Vtalv	0~9999ml
		Mvalv	0 ~ 20 l/min
		RQ	0.0~10.0
		VDalv	0~999 ml
		VDphy	0~999 ml
		VDphy/VTe	0~100%
		OI	0.0~200.0
		P/F	0.0~800.0 ml
		kcal/d	0.0~10000.0
		VDalv/VTe	0~100%
		SpO2 Module	
		Data update period	≤1s
		Display interval	1%
		SpO2 range	Comen SpO2:
EtCO2 alarm limit	Comen CO2 module: High alarm limit: (low limit + 2) ~150mmHg		

SpO2 accuracy	0~100%
	Masimo SpO2 module: 1%~100%
	Nellcor SpO2 module: 0%~100%;
	Comen SpO2: 70%~100%: $\pm 2\%$ (not during movement) in Adult/Pediatric mode, or $\pm 3\%$ in Neonate mode (not during movement) 0%~69%: not defined.
SpO2 alarm limit	Masimo SpO2 module: 70%~100%: $\pm 2\%$ (not during movement) or $\pm 3\%$ (during movement) in Adult/Pediatric mode, or $\pm 3\%$ in Neonate mode (whether or not during movement) 1%~69%: not defined.
	Nellcor SpO2 module: 70%~100%: $\pm 2\%$ in Adult/Pediatric mode (not during movement), or $\pm 3\%$ in Neonate mode (not during movement) 0%~69%: not defined.
	Masimo SpO2: High alarm limit: (low limit + 2%) ~100%
	Low alarm limit: 1%~ (high limit -2%)
Pulse rate range	Nellcor SpO2: High alarm limit : (low limit +2%) ~100%
	Low alarm limit: 20%~ (high limit -2%)
	Masimo SpO2: 25~240bpm
	Nellcor SpO2: 20~300bpm
Pulse rate accuracy	Masimo SpO2: ± 3 bpm (not during movement) ± 5 bpm (during movement)
	Nellcor SpO2: 20~250bpm: ± 3 bpm 251~300bpm: not defined
	High alarm limit: (low limit + step length) ~350bpm;
	Low alarm limit: 15bpm~ (high limit – step length);
Pulse rate alarm	Step length: In 15~40bpm range: 1bpm; in 41~350bpm range: 5 bpm;
	Set the high alarm limit to be greater than the low alarm limit.
	Masimo SpO2 module:
PI range	

PI accuracy	0.02%~20.0%
	Nellcor SpO2 module: No PI
	Masimo SpO2 module: 0.02%~9.99%: 0.01% 10.0%~20.0%: 0.1%
	Nellcor SpO2 module: No PI
Signal IQ indication function	Masimo SpO2 module should be equipped with Signal IQ indication function
O2 Sensor	
Chemical O2 sensor	
Drift of sensor	After 1 year: typical value <5%
O2 range	0%~100%
FiO2 accuracy	$\pm (2\text{kPa} + 2\% \text{ of reading})$
Paramagnetic O2 sensor	
FiO2 accuracy	First 24h: $<\pm 0.4\%$ The following week (extra): $<\pm 0.2\%$ Every month thereafter (extra): $<\pm 0.2\%$
Data Review	
Screenshot	≥ 50 screenshots
Loop	≥ 10 loops
Trend graph	$\geq 168\text{h}$
Trend table	$\geq 168\text{h}$
Event Log	≥ 6000 event logs
Pneumatic Circuit Specification	
High-pressure O2 supply	
Gas type	O2
Pressure range	276~650kPa
Rated flow rate requirement	180L/min
Input connector	NIST or DISS
Average weighted flow rate	280kPa: 30.5L/min 650kPa: 31.5L/min
Peak flow rate	280kPa: 97.8L/min 650kPa: 115.4L/min
Low-pressure O2 supply	
Input pressure range	<100kPa
Maximum flow rate	15L/min
Input connector	CPC quick coupling
Turbine	
Maximum output	$\geq 85\text{cmH}_2\text{O}$

pressure

Maximum output flow $\geq 210\text{L/min}$

Inspiratory module

Safety pressure of respiration $\leq 12.5\text{kPa}$

Peak flow rate $\geq 180\text{ l/min}$

Nebulizer port flow rate $7\sim 10\text{L/min}$

Inspiratory-side external connector Coaxial 22mm/15mm conical connector

Removable Yes

Expiratory module

Expiratory-side external connector Coaxial 22mm/15mm conical connector

Removable Yes

System compliance and resistance

Compliance Adult disposable circuit: $\leq 4\text{ml/cmH}_2\text{O}$
Adult reusable circuit: $\leq 2\text{ml/cmH}_2\text{O}$
Pediatric disposable circuit: $\leq 2\text{ml/cmH}_2\text{O}$
Pediatric reusable circuit: $\leq 2\text{ml/cmH}_2\text{O}$
Neonatal disposable circuit: $\leq 1\text{ml/cmH}_2\text{O}$
Neonatal reusable circuit: $\leq 1\text{ml/cmH}_2\text{O}$

Resistance Adult: $\leq 6\text{cmH}_2\text{O}$ at the flow rate of 60L/min
Pediatric: $\leq 6\text{cmH}_2\text{O}$ at the flow rate of 30L/min
Neonate: $\leq 6\text{cmH}_2\text{O}$ at the flow rate of 5L/min

Biofilter

Dead space volume $\leq 65\text{ml}$

Filtration efficiency 99.99%

Power Supply

External AC power supply

Input voltage 100-240V~

Input frequency 50/60Hz

Input current 2.5~1.1A

Power consumption T5.0AH/250V

Internal battery

Number Main unit: 1 or 2

Type Lithium-ion battery

Voltage 14.4V DC

Capacity **Main unit:**
Single: 6700mAh
Dual: 13400mAh

Turbine:
Single: 6700mAh

Working time Single: 150min
Dual: 300min

Operation Environment

Temperature $5\sim 40^\circ\text{C}$

Relative humidity 5%~95% (non-condensing)

Atmospheric pressure $62\sim 106\text{kPa}$

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