HAMILTON-C6

Technical specifications for SW version 1.1.x

Ventilation modes

Mode form	Mode name	Mode	Adult/Ped	Neonatal
Volume-controlled,	(S)CMV	Breaths are volume controlled and mandatory, including patient	✓	
flow-controlled		triggered breaths.		
	SIMV	Volume controlled mandatory breaths can be alternated with	✓	
		pressure-supported spontaneous breaths.		
Volume-targeted,	APVcmv / (S)CMV+	Breaths are volume targeted and mandatory.	✓	✓
adaptive pressure-	APVsimv / SIMV+	Volume-targeted mandatory breaths can be alternated with	✓	✓
controlled		pressure-supported spontaneous breaths.		
Pressure-controlled	PCV+	All breaths, whether triggered by the patient or the ventilator, are	✓	✓
		pressure controlled and mandatory.		
	P-SIMV+	Mandatory breaths are pressure controlled. Mandatory breaths can	✓	✓
		be alternated with pressure-supported spontaneous breaths.		
	DuoPAP	Mandatory breaths are pressure controlled. Spontaneous breaths	✓	✓
		can be triggered at both pressure levels.		
	APRV	Spontaneous breaths can be continuously triggered. The pressure	✓	✓
		release between the levels contributes to ventilation.		
	SPONT	Every breath is spontaneous, with or without pressure-supported	✓	✓
		spontaneous breaths.		
Intelligent ventilation	ASV®	Operator sets %MinVol, PEEP, and Oxygen. Frequency, tidal volume,	✓	
		pressure, and I:E ratio are based on physiological input from the		
		patient.		
	INTELLIVENT®-ASV	Fully automated management of ventilation and oxygenation based	0	
		on physiological input from the patient. The underlying mode is		
		ASV.		
Noninvasive	NIV	Every breath is spontaneous.	✓	✓
ventilation	NIV-ST	Every breath is spontaneous as long as the patient is breathing	✓	✓
		above the set rate. A backup rate can be set for mandatory breaths.		
	nCPAP-PS	Every breath is spontaneous as long as the patient is breathing		0
		above the set rate. A backup rate can be set for mandatory breaths.		
Oxygen therapy	HiFlowO2	High flow oxygen therapy. No supported breaths.	0	0
, 30		g, g.a.r areapy, red supported breaking.	Ü	~

Standard: ✓ Option: O Not applicable: --





Standard configuration and options (in alphabetical order)

Capnography, mainstream (volumetric) and sidestream Communication ports: Three COM ports, two USB ports, DVI, Nurse call V Communication ports: Three COM ports, two USB ports, DVI, Nurse call V Porticipation of the lungs V Communication protecols: for details see Connectivity brochure Communication Communicat	Functions	Adult / Ped	Neonatal
Communication protocols: for details see Connectivity brochure Dynamic Lung (real-time visualization of the lungs) Feent log (up to 10,000 events with date and time stamp) HAMILTON-H900 humidifier control via ventilator O Inspiratory and expiratory hold maneuver IntelliCuff® cuff pressure controller control via ventilator O IntelliCuff® cuff pressure controller control via ventilator IntelliCuff® cuff pressure controller control via ventilator O IntelliCuff® cuff pressure controller control via ventilator O IntelliCuff® cuff pressure controller control via ventilator IntelliCuff® cuff pressure controller control via ventilator O IntelliCuff® cuff pressure controller control via ventilator IntelliCuff® cuff pressure controller control via ventilator O IntelliCuff® cuff pressure controller control via ventilator IntelliCuff® cuff pressure controller control via ventilator IntelliCuff® cuff pressure controller control via ventilator O IntelliCuff® cuff pressure controller control via ventilator (English, US English, Chinese, Croatian, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian, Indonesian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Romanian, Russian, Serbian, Slovak, Spanish, Swedish, Turkish) Manual breath / prolonged inspiration V	Capnography, mainstream (volumetric) and sidestream	0	0
Dynamic Lung (real-time visualization of the lungs) Fevent log (up to 10,000 events with date and time stamp) HAMILTON-H900 humidifier control via ventilator O Inspiratory and expiratory hold maneuver IntelliCuff* cuff pressure controller control via ventilator O IntelliSync+ (inspiratory and expiratory trigger synchronization) O IntelliSync+ (inspiratory and expiratory trigger synchronization) O IntelliTing (leak compensation) C IntelliTing (leak compensatio	Communication ports: Three COM ports, two USB ports, DVI, Nurse call	✓	✓
Event log (up to 10,000 events with date and time stamp) HAMILTON-H900 humidifier control via ventilator O Inspiratory and expiratory hold maneuver Intellicurf** cuff pressure controller control via ventilator O IntelliSync+ (inspiratory and expiratory trigger synchronization) O IntelliSync+ (inspiratory and expiratory trigger synchronization) O IntelliTrig (leak compensation) V V (English, US English, Chinese, Croatian, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian, Indonesian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Romanian, Russian, Serbian, Slovak, Spanish, Swedish, Turkish) Manual breath / prolonged inspiration V Nebulization (Aerogen*) O O Nebulization (neumatic) V OP-cernichment O On-screen help V ON-screen help Pry Too(**Pro O O Paramagnetic O2 sensor O O Screen lock C Second battery O Screen lock S Second battery O C Second battery S Second battery Transpulmonary pressure monitoring Transpulmonary pressure monitoring Transpulmonary pressure monitoring Transpulmonary pressure monitoring Transpulmonary pressure selectable V Transpulmonary pressure selectable	Communication protocols: for details see Connectivity brochure	✓	✓
HAMILTON-H900 humidifier control via ventilator Inspiratory and expiratory hold maneuver IntelliCuff® cuff pressure controller control via ventilator OOOIntelliSync+ (inspiratory and expiratory trigger synchronization) IntelliTrig (leak compensation) Languages (*Cinglish, US English, Chinese, Croatian, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian, Indonesian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Romanian, Russian, Serbian, Slovak, Spanish, Swedish, Turkish) Manual breath / prolonged inspiration Anaula breath /	Dynamic Lung (real-time visualization of the lungs)	✓	
Inspiratory and expiratory hold maneuver IntelliCutf* cutf pressure controller control via ventilator IntelliCutf* cutf pressure controller control via ventilator IntelliSync+ (inspiratory and expiratory trigger synchronization) IntelliTrig (leak compensation) IntelliTrig (leak compensation, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian, Indonesian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Romanian, Russian, Serbian, Slovak, Spanish, Swedish, Turkish) IntelliTrig (leak compensation) IntelliTrig (leak c	Event log (up to 10,000 events with date and time stamp)	✓	✓
IntelliCuff* cuff pressure controller control via ventilator O O IntelliSync+ (inspiratory and expiratory trigger synchronization) O IntelliTrig (leak compensation) Y Y Languages Y Y (English, US English, Chinese, Croatian, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian, Indonesian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Romanian, Russian, Serbian, Slovak, Y Spanish, Swedish, Turkish) Y Y Manual breath / prolonged inspiration Y Y Nebulization (Aerogen*) O O Nebulization (pneumatic) Y Y O1-screen help Y Y P/V Tool® Pro O O Paramagnetic O2 sensor O O Parint screen Y Y Screen lock Y Y Second battery O O Sp02 monitoring O O Standby with timer Y Y Suctioning tool Y Y Transpulmonary pressure monitoring Y <td< td=""><td>HAMILTON-H900 humidifier control via ventilator</td><td>0</td><td>0</td></td<>	HAMILTON-H900 humidifier control via ventilator	0	0
IntelliSync+ (inspiratory and expiratory trigger synchronization) 0 IntelliTrig (leak compensation) 7 7 Languages 7 7 (English, US English, Chinese, Croatian, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian, Indonesian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Romanian, Russian, Serbian, Slovak, Spanish, Swedish, Turkish) 7 7 Manual breath / prolonged inspiration 7 7 Nebulization (Aerogen ⁹) 0 0 Nebulization (pneumatic) 7 02 enrichment 7 0n-screen help 7 P/V Tool® Pro 0 0 Paramagnetic O2 sensor 0 0 Print screen 7 7 Screen lock 7 7 Second battery 0 0 Sp02 monitoring 0 0 Standby with timer 7 7 Suctioning tool 7 7 Transpulmonary pressure monitoring 7 7 Treds/Loops 7 7 Tringger, flow and pressure	Inspiratory and expiratory hold maneuver	✓	✓
IntelliTrig (leak compensation) Languages (Finglish, US English, Chinese, Croatian, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian, Indonesian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Romanian, Russian, Serbian, Slovak, Spanish, Swedish, Turkish) Manual breath / prolonged inspiration Mebulization (Aerogen ⁶) O Nebulization (pneumatic) O2 enrichment On-screen help P/V Tool [®] Pro O Paramagnetic O2 sensor O Patient group Frint screen Screen lock Second battery O Sp02 monitoring O Sp02 monitoring O Standby with timer Suctioning tool Transpulmonary pressure monitoring TRC (tube resistance compensation) Trends/Loops Trigger, flow and pressure selectable	IntelliCuff® cuff pressure controller control via ventilator	0	0
Languages (Finglish, US English, Chinese, Croatian, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian, Indonesian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Romanian, Russian, Serbian, Slovak, Spanish, Swedish, Turkish) Manual breath / prolonged inspiration Nebulization (Aerogen) O Nebulization (pneumatic) O2 enrichment O3 enrichment O6 enrichment O7 enrichment O8 enrichment O9 enric	IntelliSync+ (inspiratory and expiratory trigger synchronization)	0	
(English, US English, Chinese, Croatian, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian, Indian, Japanese, Korean, Norwegian, Polish, Portuguese, Romanian, Russian, Serbian, Slovak, Spanish, Swedish, Turkish) Manual breath / prolonged inspiration ✓ ✓ Nebulization (Aerogen) O O Nebulization (pneumatic) ✓ ✓ O2 enrichment ✓ ✓ On-screen help ✓ ✓ P/V Toole Pro O O Paramagnetic O2 sensor O O Print screen ✓ ✓ Screen lock ✓ ✓ Second battery O O Second battery O O Standby with timer ✓ ✓ Suctioning tool ✓ ✓ Transpulmonary pressure monitoring ✓ ✓ TRC (tube resistance compensation) ✓ ✓ Trends/Loops ✓ ✓ Trigger, flow and pressure selectable ✓ ✓	IntelliTrig (leak compensation)	✓	✓
Indonesian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Romanian, Russian, Serbian, Slovak, Spanish, Swedish, Turkish) Manual breath / prolonged inspiration	Languages	✓	✓
Spanish, Swedish, Turkish) Manual breath / prolonged inspiration ✓ ✓ Nebulization (Aerogen§) O O Nebulization (pneumatic) ✓ — O2 enrichment ✓ ✓ On-screen help ✓ ✓ P/V Tool® Pro O O Patient group ✓ O Print screen ✓ ✓ Screen lock ✓ ✓ Second battery O O Sp02 monitoring O O Standby with timer ✓ ✓ Suctioning tool ✓ ✓ Transpulmonary pressure monitoring ✓ ✓ TRC (tube resistance compensation) ✓ ✓ Trends/Loops ✓ ✓ ✓ Trigger, flow and pressure selectable ✓ ✓ ✓	(English, US English, Chinese, Croatian, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian,		
Manual breath / prolonged inspiration ✓ ✓ Nebulization (Aerogen§) O O Nebulization (pneumatic) ✓ — O2 enrichment ✓ ✓ On-screen help ✓ ✓ PV Tool® Pro O O Paramagnetic O2 sensor O O Print screen ✓ ✓ Screen lock ✓ ✓ Second battery O O SpO2 monitoring O O Standby with timer ✓ ✓ Suctioning tool ✓ ✓ Transpulmonary pressure monitoring ✓ ✓ TRC (tube resistance compensation) ✓ ✓ Trends/Loops ✓ ✓ Trigger, flow and pressure selectable ✓ ✓	Indonesian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Romanian, Russian, Serbian, Slovak,		
Nebulization (Aerogens)OONebulization (pneumatic)O2 enrichmentOn-screen helpP/V Tool® ProOParamagnetic O2 sensorOPatient groupPrint screenScreen lockSecond batteryOSp02 monitoringOStandby with timerSuctioning toolTranspulmonary pressure monitoringTRC (tube resistance compensation)Trends/LoopsTrigger, flow and pressure selectable	Spanish, Swedish, Turkish)		
Nebulization (pneumatic) Oz enrichment Oz enrichment On-screen help PrV Tool® Pro On O Paramagnetic Oz sensor O O Patient group Print screen Print screen Print screen O O Screen lock Screen lock Second battery O O Spo2 monitoring O O Standby with timer Suctioning tool Transpulmonary pressure monitoring Trends/Loops Trigger, flow and pressure selectable	Manual breath / prolonged inspiration	✓	✓
O2 enrichment O3 enrichment On-screen help PVY Tool® Pro O O Paramagnetic O2 sensor O O Patient group Print screen Print screen Print screen O O Screen lock Second battery O O Spo2 monitoring O O Standby with timer Suctioning tool Transpulmonary pressure monitoring TRC (tube resistance compensation) Trends/Loops Trigger, flow and pressure selectable	Nebulization (Aerogen§)	0	0
On-screen help ✓ ✓ PV Tool® Pro O O Paramagnetic O2 sensor O O Patient group ✓ O Print screen ✓ ✓ Screen lock ✓ ✓ Second battery O O SpO2 monitoring O O Standby with timer ✓ ✓ Suctioning tool ✓ ✓ Transpulmonary pressure monitoring ✓ ✓ TRC (tube resistance compensation) ✓ ✓ Trends/Loops ✓ ✓ Trigger, flow and pressure selectable ✓ ✓	Nebulization (pneumatic)	✓	
P/V Tool® Pro O O Paramagnetic O2 sensor O O Patient group ✓ O Print screen ✓ ✓ Screen lock ✓ ✓ Second battery O O SpO2 monitoring O O Standby with timer ✓ ✓ Suctioning tool ✓ ✓ Transpulmonary pressure monitoring ✓ ✓ TRC (tube resistance compensation) ✓ ✓ Trends/Loops ✓ ✓ Trigger, flow and pressure selectable ✓ ✓	O2 enrichment	✓	✓
Paramagnetic O2 sensorOOPatient group✓OPrint screen✓✓Screen lock✓✓Second batteryOOSpO2 monitoringOOStandby with timer✓✓Suctioning tool✓✓Transpulmonary pressure monitoring✓✓TRC (tube resistance compensation)✓✓Trends/Loops✓✓Trigger, flow and pressure selectable✓✓	On-screen help	✓	✓
Patient group Print screen Screen lock Screen lock Scood battery Second battery O SpO2 monitoring O Standby with timer Suctioning tool Transpulmonary pressure monitoring TRC (tube resistance compensation) Trends/Loops Trigger, flow and pressure selectable	P/V Tool® Pro	0	0
Print screen Screen lock Second battery Second battery O Sp02 monitoring O Standby with timer Suctioning tool Transpulmonary pressure monitoring TRC (tube resistance compensation) Trends/Loops Trigger, flow and pressure selectable	Paramagnetic O2 sensor	0	0
Screen lock	Patient group	✓	0
Second battery 0 0 SpO2 monitoring 0 0 Standby with timer ✓ ✓ Suctioning tool ✓ ✓ Transpulmonary pressure monitoring ✓ ✓ TRC (tube resistance compensation) ✓ ✓ Trends/Loops ✓ ✓ Trigger, flow and pressure selectable ✓ ✓	Print screen	✓	✓
SpO2 monitoring 0 0 Standby with timer ✓ ✓ Suctioning tool ✓ ✓ Transpulmonary pressure monitoring ✓ ✓ TRC (tube resistance compensation) ✓ ✓ Trends/Loops ✓ ✓ Trigger, flow and pressure selectable ✓ ✓	Screen lock	✓	✓
Standby with timer Suctioning tool Transpulmonary pressure monitoring TRC (tube resistance compensation) Trends/Loops Trigger, flow and pressure selectable	Second battery	0	0
Suctioning tool Transpulmonary pressure monitoring TRC (tube resistance compensation) Trends/Loops Trigger, flow and pressure selectable V V V	SpO2 monitoring	0	0
Transpulmonary pressure monitoring TRC (tube resistance compensation) Trends/Loops Trigger, flow and pressure selectable	Standby with timer	✓	✓
TRC (tube resistance compensation) Trends/Loops Trigger, flow and pressure selectable Trigger, flow and pressure selectable	Suctioning tool	✓	✓
Trends/Loops Trigger, flow and pressure selectable ✓ ✓	Transpulmonary pressure monitoring	✓	✓
Trigger, flow and pressure selectable	TRC (tube resistance compensation)	✓	✓
	Trends/Loops	✓	✓
Vent Status (Visual representation of ventilator dependence) ✓	Trigger, flow and pressure selectable	✓	✓
	Vent Status (Visual representation of ventilator dependence)	✓	✓

Standard: ✓ Option: O Not applicable: --

Technical performance data (in alphabetical order)

Description	Specification
Automatic expiratory base flow	Fixed at 6 I/min
Inspiratory pressure	0 to 100 cmH2O
Maximum inspiratory flow	260 l/min
Means of inspiratory triggering	Flow trigger control, pressure trigger control, or optional IntelliSync+ control
Means of expiratory triggering	Flow cycle (ETS), or optional IntelliSync+ control
Minimum expiratory time	20% of cycle time; 0.2 to 0.8 s
O2 input flow	80-150 l/min (at 2.8 bar/ 280 kPa / 41 psi input pressure)
Oxygen mixer accuracy	± (Volume fraction of 2.5% + 2.5% of actual reading)
Preoperational checks	Tightness test, flow sensor/O2 sensor/CO2 sensor calibration
Tidal volume	Adult/Ped: 20 to 2000 ml
	Neonatal: 2 to 300 ml

Standards and approvals

Classification	Class IIb, continuously operating according to EC directive 93/42/EEC
Certification	EN 60601-1:2006/A1:2013, IEC 60601-1-2:2014, ANSI/AAMI ES60601-1:2005/(R)2012, ISO
	80601-2-12:2011, CAN/CSA-C22.2 NO. 60601-1:14, EN ISO 5356-1:2015, ISO 80601-2-55:2011
Declaration	The HAMILTON-C6 was developed in accordance with pertinent international standards and
	FDA guidelines. The ventilator is manufactured within an EN ISO 13485 and EN ISO 9001,
	Council Directive 93/42/EEC, Annex II, Article 3 certified quality management system. The
	ventilator meets the Essential Requirements of Council Directive 93/42/EEC, Annex I.
Electromagnetic compatibility	According to IEC 60601-1-2:2014
Safety Class	Class I, Type B applied part (ventilator breathing system, VBS), type BF applied parts CO2 sensor
	including CO2 module connector, humidifier, Aerogen [§] system, nebulizer, and SpO2 sensor
	including SpO2 adapter, continuous operation according to IEC 60601-1

Pneumatic specifications

O2	Input pressure	2.8 to 6 bar / 41 to 87 psi
	Connector	DISS (CGA 1240) or NIST
Air supply		Integrated turbine with lifetime warranty
Inspiratory outlet (To patient port)	Connector	ISO 15 mm ID/22 mm OD conical
Expiratory outlet (From patient port)		ISO 15 mm ID/22 mm OD conical

Electrical specifications

Input power	100 to 240 VAC ±10%, 50/60 F	
Power consumption	60 VA typical, 210 VA	
	(485 VA with humidifier) maxim	num
Battery	Electrical specifications:	14.4 V, 5.0 Ah, 72 Wh, 48 W typical, 288 W maximum
	Туре:	Lithium-ion
	Normal operating time:	\geq 90 min with one battery / \geq 180 min with two
		batteries

Graphical patient data

Graphic type/Tab name	Options
Waveforms	Pressure, Flow, Volume, Off, PCO21, FCO21, Plethysmogram1, Ptrachea, Pes, Ptranspulm
Intelligent panels	Dynamic Lung², Vent Status, ASV Graph³, SMPs (Secondary monitoring parameter)
Trends	1-, 6-, 12-, 24-, or 72-h trend data for a selected parameter or combination of parameters
Loops	Pressure/Volume, Pressure/Flow, Volume/Flow, Volume/PCO21, Volume/FCO21, Pes/Volume,
	Ptranspulm/Volume

Alarms⁴

Priority	Alarm
High priority	Apnea time (s), ExpMinVol high/low (l/min), Oxygen high/low (%), Pressure high/low (cmH2O),
	Flow sensor calibration needed, Exhalation obstructed, Disconnection, Oxygen supply failed
Medium priority	fTotal high/low (b/min), PetCO2 high/low (mmHg), Pressure limitation (cmH2O), Vt high/low
	(ml), SpO2 high/low, SpOC high/low, %leak, High PEEP, Loss of PEEP, Pulse high/low
Low priority	High SpO2, Loss of external power, Cuff leak

1 CO2 + SpO2 option required | 2 For adult/pediatric patients only | 3 Only available in ASV mode | 4 For complete list of alarms see operation manual

Control settings and ranges⁵

Parameter (units)	Range Adult/Ped	Range Neonatal
Apnea backup	On, Off	On, Off
Cuff pressure (cmH2O)	0 to 50	0 to 50
Expiratory trigger sensitivity ETS (%)	5 to 80	5 to 80
Flow for HiFlowO2 therapy (I/min)	2 to 80	2 to 12
Flow pattern	Square, 50% decelerating, Sine, 100%	
	decelerating	
Flow trigger (I/min)	0.5 to 20, off	0.1 to 5.0, off
Gender (sex)	Male, Female	
I:E	1:9 to 4:1	1:9 to 4:1
%MinVol (%)	25 to 350	
Nebulizer Duration (min)	5 to 40, continuous	5 to 40, continuous
Nebulizer Synchronisation	Inspiration, Exhalation, Insp. and Exh.	Inspiration, Exhalation, Insp. and Exh.
Oxygen (%)	21 to 100	21 to 100
P high (cmH2O) (only in DuoPAP and APRV)	0 to 100	0 to 60
P low (cmH2O) (only in APRV)	0 to 50	0 to 25
Pasvlimit (cmH2O)	5 to 100	
Pat. height (cm) (in)	30 to 250 / 12 to 98	
Pause (%)	0 to 70	
Pcontrol (cmH2O)	5 to 100	3 to 60
Peak flow (I/min)	1 to 195	
PEEP/CPAP (cmH2O)	0 to 50	0 to 25
Pinsp (cmH2O)	3 to 100	0 to 60
P-ramp (ms)	0 to 2000	0 to 600
Pressure trigger (cmH2O)	-0.1 to -15.0, off	-0.1 to -15.0, off
Psupport (cmH2O)	0 to 100	0 to 60
Rate (b/min)	1 to 80	1 to 150
Sigh	On, Off	
T high (s) (only in DuoPAP und APRV)	0.1 to 40	0.1 to 40
T low (s) (only in APRV)	0.2 to 40	0.2 to 40
TI (s)	0.1 to 12	0.1 to 12
TI max (s)	0.5 to 3	0.25 to 3.0
Tip (s)	0 to 8	
Tpause (s)	0 to 30	0 to 30
TRC compensation (%)	0 to 100	0 to 100
Vt (ml)	20 to 2000	2 to 300
Weight (kg)		0.2 to 30.0

⁵ Parameter settings and ranges can change depending on the mode

Monitoring parameter

Parameter (uni	its)	Description
Pressure	AutoPEEP (cmH2O)	Unintended positive end-expiratory pressure
	Paw (cmH2O)	Airway pressure
	ΔP (cmH2O)	Driving pressure
	PTP (cmH2O*s)	Inspiratory pressure time product
	Pcuff (cmH2O)	Cuff pressure
	Ptrans I (cmH2O)	The arithmetic mean value of Ptranspulm over the last 100 ms of the last
		inspiration.
	Ptrans E (cmH2O)	The arithmetic mean value of Ptranspulm over the last 100 ms of the last expiration.
	PEEP/CPAP (cmH2O)	PEEP (positive end-expiratory pressure) and CPAP (continuous positive airway
		pressure)
	Pinsp (cmH2O)	Inspiratory pressure
	Pmean (cmH2O)	Mean airway pressure
	Ppeak (cmH2O)	Peak airway pressure
	Pplateau (cmH2O)	Plateau or end-inspiratory pressure
	Pes min (cmH2O)	See PEEP. The pressure is measured through the Pes port instead of using airway
		pressure.
	Pes max (cmH2O)	See Ppeak. The pressure is measured through the Pes port instead of using airway
		pressure.
	Pes plateau (cmH2O)	See Pplateau. The pressure is measured through the Pes port instead of using
		airway pressure.
	Pes PTP (cmH2O)	See PTP. The pressure is measured through the Pes port instead of using airway
		pressure.
	Pes P0.1 (cmH2O)	See P0.1. The pressure is measured through the Pes port instead of using airway
		pressure.
Flow	Control Flow (I/min)	The set flow of gas to the patient. HiFlowO2 mode only.
	Insp Flow (I/min)	Peak inspiratory flow, spontaneous or mandatory
	Exp Flow (I/min)	Peak expiratory flow
Volume	ExpMinVol or MinVol NIV (I/min)	Expiratory minute volume
	MVSpont or MVSpont NIV (I/min)	Spontaneous expiratory minute volume
	VTE or VTE NIV (ml)	Expiratory tidal volume
	VTESpont (ml)	Spontaneous expiratory tidal volume
	VTI or VTI NIV (ml)	Inspiratory tidal volume
	Vt/IBW	Tidal volume according to ideal body weight (IBW) for adult/ pediatric patients and
	Vt/Weight (ml/kg)	according to the actual body weight for neonatal patients.
	VLeak (%) or MVLeak (I/min)	Leakage percent or total minute volume leakage

Monitoring parameter (continued)

Parameter (units)		Description
CO2	FetCO2 (%)	Fractional end-tidal CO2 concentration
	PetCO2 (mmHg)	End-tidal CO2 pressure
	slopeCO2 (%CO2 / I)	Slope of the alveolar plateau in the PetCO2 curve, indicating the volume/flow
		status of the lungs
	Vtalv (ml)	Alveolar tidal ventilation
	V'alv (l/min)	Alveolar minute ventilation
	V'CO2 (ml/min)	CO2 elimination
	VDaw (ml)	Airway dead space
	VDaw/VTE (%)	Airway dead space fraction at the airway opening
	VeCO2 (ml)	Exhaled CO2 volume.
	ViCO2 (ml)	Inspired CO2 volume
SpO2	SpO2 (%)	Oxygen saturation
	Pulse (1/min)	Pulse
	Plethysmogram	The waveform that visualizes the pulsating blood volume; it is delivered by the
		pulse oximeter.
	SpO2/FiO2 (%)	The SpO2/FiO2 ratio (%) is an approximation of the PaO2/FiO2 ratio, which, in
		contrast to PaO2/FiO2, can be calculated noninvasively and continuously.
	PI (%)	Perfusion index
	PVI (%)	Pleth variability index
	SpCO (ml/dl) ² (%)	Carboxyhaemoglobin saturation
	SpMet (%)	Methaemoglobin saturation
	SpHb (g/dl) (mmol/l)	Total haemoglobin
	SpOC (ml/dl)	Oxygen content
Oxygen	Oxygen (%)	Oxygen concentration of the delivered gas
Гime	I:E	Inspiratory:expiratory ratio
	fControl (b/min)	Mandatory breath frequency
	fSpont (b/min)	Spontaneous breathing frequency
	fTotal (b/min)	Total breathing frequency
	TI (s)	Inspiratory time
	TE (s)	Expiratory time
	Pause (s)	Inspiratory pause or plateau
ung mechanics	Cstat (ml/cmH2O)	Static compliance
	P0.1 (cmH2O)	Airway occlusion pressure
	PTP (cmH2O*s)	Pressure time product
	RCexp (s)	Expiratory time constant
	Rinsp (cmH2O/(l/s))	Inspiratory flow resistance
	RSB (1/(l*min))	Rapid shallow breathing







Physical characteristics

Weight	Monitor (interaction panel) 7.8 kg (17.2 lb), with shelf mount: 10.0 kg (22.0 lb)
	Ventilation unit, shelf mount: 10.5 kg (23.15 lb)
	46 kg (101 lb) with trolley, monitor, ventilation unit
	The trolley can accommodate a maximum safe working load of 80 kg (176 lb)
Dimensions	See graphic above
Monitor	Type: Color TFT, Size: 1920 x 1200 pixels, 17 in (431.8 mm) diagonal
Monitor mounting options	VESA, pole mount, rail mount, handle mount
Trolley accessories	Basket, O2 cylinder holder (two bottles), HAMILTON-H900 mounting system, additional standard rail

Manufacturer:

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