# **HAMILTON-T1**

## Technical specification for SW version 3.0.x

#### Ventilation modes

Standard: ✓ Option: O Not applicable: --

Volume-targeted modes, adaptive modes, adaptive pressure controlled         APVcmm / (S)CMV+         Breaths are volume targeted and mandatory.         ✓         ✓           APVsimv / SIMV+ pressure controlled         Volume-targeted mandatory breaths can be alternated with pressure-supported spontaneous breaths.         ✓         ✓           Pressure-controlled modes         PCV+ patient-initiated breaths.         All breaths, whether triggered by the patient or the ventilator, are pressure-controlled and mandatory.         ✓         ✓           PSIMV+ Mandatory breaths are pressure controlled. Mandatory breaths can be alternated with pressure-supported spontaneous breaths can be alternated with pressure-supported spontaneous breaths can be be triggered at both pressure levels.         ✓         ✓           APRV         Spontaneous breaths can be continuously triggered. The pressure of 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 ItE ratio are based on physiological input from the patient.         ✓            Intelligent ventilation         INTELLIVENT-ASV         Ventilator management of CO2 elimination and oxygenation is based on clinician-defined target ranges and parameter limits, and physiological input from the patient. The underlying mode is ASV.          O <th>Mode form</th> <th>Mode name</th> <th>Mode</th> <th>Adult/Ped</th> <th>Neonatal</th>	Mode form	Mode name	Mode	Adult/Ped	Neonatal
pressure controlled supported spontaneous breaths.  VS Breaths are flow cycled and deliver a set tidal volume to support patient-initiated breaths.  Pressure-controlled modes  PCV+ All breaths, whether triggered by the patient or the ventilator, are pressure-controlled and mandatory.  PSIMV+ 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 O O 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 Ventilator management of CO2 elimination and oxygenation is based Oreon clinician-defined target ranges and parameter limits, and physiological input from the patient. The underlying mode is ASV.  Noninvasive modes NIV Every breath is spontaneous as long as the patient is breathing above Oreon CPAP Demand flow nasal continuous positive airway pressure. — Oreon CPAP-PC Breaths are pressure controlled and mandatory. — Oreon CPAP-PC Breaths are pressure controlled and mandatory. — Oreon CPAP-PC Breaths are pressure controlled and mandatory. — Oreon CPAP-PC Breaths are pressure controlled and mandatory. — Oreon CPAP-PC Breaths are pressure controlled and mandatory. — Oreon CPAP-PC Breaths are pressure controlled and mandatory. — Oreon CPAP-PC Breaths are pressure controlled and mandatory. — Oreon CPAP-PC Breaths are pressure controlled and mandatory. — Oreon CPAP-PC Breaths are pressure controlled and mandatory. — Oreon CPAP-PC Breaths are pressure controlled and mandatory. — Oreon CPAP-PC Breaths are pressure controlled and mandatory.	Volume-targeted	APVcmv / (S)CMV+	Breaths are volume targeted and mandatory.	✓	✓
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nCPAP-PC Breaths are pressure controlled and mandatory O		NIV-ST		0	0
		nCPAP	Demand flow nasal continuous positive airway pressure.		0
HiFlowO2 High flow oxygen therapy. No supported breaths. O O		nCPAP-PC	Breaths are pressure controlled and mandatory.		0
		HiFlowO2	High flow oxygen therapy. No supported breaths.	0	0



## Standard configuration and options (in alphabetical order)

Standard: ✓ Option: O Not applicable: --

Functions	Adult/Ped	Neonatal
Capnography, mainstream (volumetric) and sidestream	0	0
Communication board:	0	0
CO2, CO2/Nurse Call/COM1, CO2/SpO2/COM1 <sup>1</sup> , CO2/SpO2/Humidifier & COM1 <sup>1, 2</sup>		
Communication protocols. For details, see the <i>Connectivity</i> brochure	0	0
CPR ventilation	✓	✓
Dynamic Lung	✓	
Event log (up to 10,000 events with date and time stamp)	✓	✓
Flow trigger	✓	✓
Hamilton Connect Module (connectivity)	0	0
HAMILTON-H900 humidifier integration	0	0
IntelliTrig (leak compensation)	✓	✓
Languages	✓	✓
(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, Ukrainian)		
Manual breath/prolonged inspiration		······································
Mounting options (trolley, carrying case, and a variety of wall, bed, ceiling, and shelf mounts)	0	0
NBC filter compatibility (only for HAMILTON-T1 MIL)	0	0
Nebulization, pneumatic	<b>√</b>	
Night vision compatibility (NVG)	0	0
O2 enrichment	✓	✓
On-screen help	✓	✓
Patient group	✓	0
Print screen	✓	✓
RJ-45 Ethernet port <sup>3</sup>	✓	✓
Screen lock	✓	✓
Second battery	0	0
Speak valve compatibility	0	
SpO2 monitoring	0	O
Standby with timer	· · · · · · · · · · · · · · · · · · ·	·····✓
Suctioning tool	✓	
Trends/Loops	0	0
USB port	······✓	······✓
	······································	······································
Vent Status (visual representation of patient's ventilator dependence)	<b>.</b>	•

<sup>&</sup>lt;sup>1</sup> Applies only to devices with serial number > 3000 <sup>2</sup> Only available with the HAMILTON-H900 Y-cable <sup>3</sup> Only available for use if the Hamilton Connect module is activated.

## Technical performance

Description	Specification
Automatic expiratory base flow	Adult/Ped: Fixed at 3 l/min
	Neonatal: Fixed at 4 I/min
Inspiratory pressure	0 to 60 cmH2O
Maximum limited pressure	60 cmH2O
Maximum working pressure	Adult/Ped: 60 cmH2O (total inspiratory pressure); ensured through pressure limiting  Neonatal: 45 cmH2O (limitation depending on frequency)
Maximum inspiratory flow	260 l/min (120 l/min with 100% O2)
Means of inspiratory triggering	Flow trigger control
Minimum expiratory time	20% of cycle time; 0.2 to 0.8 seconds
Minute volume capability	Up to 60 l/min
Oxygen mixer accuracy	± (volume fraction of 2.5% + 2.5% of actual reading)
Tidal volume	Adult/Ped: 20 to 2000 ml Neonatal: 2 to 300 ml
Preoperational checks	Leak test, flow sensor/circuit/O2 sensor calibration, CO2 sensor zero calibration <sup>4</sup>
Display device	Display of settings, alarms, and monitored data <i>Type:</i> Color TFT <i>Size:</i> 640 x 480 pixels, 8.4 in (214 mm) diagonal
Brightness setting for display	The range is 10% to 100% brightness. By default, Day = 80%; Night = 40%.
Brightness with NVG option	The range is 1 to 10. The default is 5.
Alarm volume (loudness) <sup>5</sup>	The range is 1 to 10. The default setting is 5.
Sound power level <sup>6</sup>	51 dB(A) ± 3dB(A)
Sound pressure level <sup>6</sup>	43 dB(A) ± 3dB(A)

<sup>&</sup>lt;sup>4</sup> CO2 option required <sup>5</sup> Volume at 1 meter distance from ventilator. A setting of 1 = 62 dB(A), 5 = 76 dB(A), and 10 = 85 dB(A), with accuracy of ±3 dB(A). <sup>6</sup> Per ISO 80601-2-12.

## Standards and approvals

Classification	Class IIb, continuously operating according to EC directive 93/42/EEC
Valid versions	IEC 60601-1:2005/A1:2012, ANSI/AAMI ES60601-1:2005/(R)2012, CAN/CSA-C22.2 No. 60601-1:14, IEC 60601-1-2:2014, IEC 60601-1-12:2014, ISO 80601-2-12:2011 + Cor.:2011, ISO 80601-2-55:2018, EN ISO 5356-1:2015, EN 794-3:1998 + A2:2009, EN 1789:2007 + A1:2010, MIL-STD-461F, MIL-STD-810G, ISO 80601-2-61:2017, ISO 80601-2-49:2018
Declaration	The HAMILTON-T1 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 II, Type BF applied part (ventilator breathing system, VBS, CO2 sensor including CO2 module connector, and SpO2 sensor including adapter), continuous operation according to IEC 60601-1

#### Pneumatic performance

High-pressure oxygen inlet	Pressure:	2.8 to 6 bar / 41 to 87 psi
	Flow:	Maximum of 200 l/min
	Connector:	DISS (CGA 1240) or NIST
Low-pressure oxygen inlet	Pressure:	Maximum 6 bar / 87 psi
	Flow:	≤ 15 l/min
	Connector:	Quick-coupling system, compatible with Colder Products
		Company (CPC) PMC series
Air supply	Integrated blower	
Gas mixing system	Delivered flow:	<ul> <li>&gt; 260 l/min ±10% against ambient pressure (at sea level)</li> </ul>
		<ul> <li>&gt; 200 l/min with 100% oxygen</li> </ul>
	Delivered pressure:	Adult/Ped: 0 to 60 cmH2O
		Neonatal: 0 to 45 cmH2O
	Flow accuracy:	±10% or ±300 ml/min (whichever is greater)
Inspiratory outlet ( <i>To patient</i> port)	Connector:	ISO ID15/OD22 conical
Expiratory outlet (From patient port)	Connector (on expiratory valve):	ISO ID15/OD22 conical

## Electrical specifications

Input power	100 to 240 VAC ±10%, 50/60	Hz
	12 to 28 VDC (total range 10.2	2 to 30.3 VDC)
Power consumption	50 VA typical, 150 VA maximu	m
Battery	Hamilton Medical provides a hi Electrical specifications:	igh-capacity battery <sup>7</sup> . An optional second battery is available. 10.8 VDC, 6.7 Ah, 72 Wh, 50 W typical, 150 W maximum
	Туре:	Lithium-ion, supplied by Hamilton Medical only
	Recharge time:	While the ventilator is connected to primary power, approximately 3.25 h to fully recharge two batteries.
	Storage:	-20°C to 60°C, $\leq$ 85% relative humidity. The storage location should be free from vibration, dust, direct sunlight, moisture, and corrosive gases, and with a recommended temperature range $<$ 21°C.
		Extended exposure to temperatures above 45°C can degrade battery performance and life.
	Normal operating time:	Typically 4 hours with one battery, 8 hours with two batteries.
		Operating times are measured with one or two fully charged batteries, the blower in use, without communication board, and with the following settings: Mode = PCV+, Rate = 10 b/min, $\Delta$ Pcontrol = 10 cmH2O, I:E = 1:4, PEEP = 5 cmH2O, Flow trigger = 5 l/min, FiO2 = 40%.
		Approximate operating times under these conditions are as follows:
		<ul> <li>One battery, display brightness = 80%: 4 h</li> <li>One battery, display brightness = 20%: 4.5 h</li> <li>Two batteries, display brightness = 80%: 8 h</li> <li>Two batteries, display brightness = 20%: 9.25 h</li> </ul>
		This operating time applies to new, fully charged Li-ion batteries that have not been exposed to extreme temperatures. The actual operating time depends on battery age and on how the battery is used and recharged.

## Graphical patient data

Graphic type/tab name	Options
Waveforms	Pressure, Volume, Flow, PCO2 <sup>8</sup> , FCO2 <sup>8</sup> , Plethysmogram <sup>9</sup> , Capnogram <sup>10</sup>
Intelligent panels	Dynamic Lung <sup>11</sup> , Vent Status, ASV Graph <sup>12</sup> , INTELLiVENT-ASV Oxygenation and CO2 elimination maps and horizons <sup>10</sup>
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/PCO2 <sup>8</sup> , Volume/FCO2 <sup>8</sup>

<sup>&</sup>lt;sup>7</sup> PN 369108, revision 4 and later. <sup>8</sup> CO2 option required <sup>9</sup> SpO2 option required <sup>10</sup> INTELLIVENT-ASV required <sup>11</sup> Only for adult/pediatric patients <sup>12</sup> Only in ASV mode

#### Alarms

Priority	Alarm
High priority	Apnea, Apnea time, ExpMinVol high/low, Oxygen high/low, Minute volume high/low, Pressure high/low, High Pressure during Sigh, Pressure not released Flow sensor calibration needed (during ventilation), Check flow sensor tubing, Check flow sensor, Check patient interface, External flow sensor failed, Replace O2 sensor, Oxygen supply failed, Buzzer defective, Loudspeaker defective Disconnection on patient/ventilator side, Exhalation obstructed, Obstruction Options not found, Self test failed, Blower fault, Device temperature high, Vent outlet temperature high Battery low, Battery power loss, Battery totally discharged, Battery temperature high, Battery communication error, Battery defective SpO2:13 SpO2 low
Medium priority	High Flow, fTotal high/low, Frequency high/low, Vt high/low, Inspiratory volume limitation, High PEEP, Loss of PEEP, Pulse high/low, Pressure limitation Wrong expiratory valve, Circuit calibration needed, Flow sensor calibration needed, Flip the flow sensor, Check flow sensor for water (Neonatal) Check for blockage, Fan failure, Function key not operational, Performance limited by high altitude Real-time clock failure, Battery low CO2: <sup>14</sup> PetCO2 high/low INTELLIVENT-ASV: FiO2 set to 100% due to low SpO2, Oscillation %MinVol, Oscillation PEEP/CPAP Oxygenation adjustment off, Oxygen control limit exceeded, Ventilation adjustment off SpO2: <sup>13</sup> SpO2: Adapter missing, SpO2: Light interference, SpO2: Low perfusion index, SpO2: Poor signal, SpO2: Probe missing, SpO2: Patient disconnected, SpO2: Sensor error, Pl low/high, PVI low/high, Pulse low/high, SpO2 low
Low priority	Check Plimit, ASV: Cannot meet the target, Maximum leak compensation, Pressure limit has changed, CPR ON, SpeakValve ON/OFF, Suctioning maneuver, Apnea ventilation/Apnea ventilation ended Flow sensor calibration needed, Preventive maintenance required, Replace HEPA filter, Blower service required, Loss of external power, IRV (inverse ratio ventilation), Release valve defective, Touch not functional, Check settings  Battery calibration required, Battery replacement required, Wrong battery, Battery low O2 sensor calibration needed, O2 sensor defective, O2 sensor missing, O2 sensor not system compatible  External connections disabled <sup>15</sup> , JTAG not working, Invalid communication board  CO2: <sup>14</sup> CO2 calibration needed, CO2 sensor defect, CO2 sensor disconnected, CO2 sensor over temperature, CO2 sensor warmup, Check CO2 sampling line, Check CO2 airway adapter, CO2: Poor signal  INTELLIVENT-ASV: <sup>16</sup> Oxygen controller at limit, PetCO2 target range changed, Ventilation controller at limit  SpO2: <sup>13</sup> SpO2 high

 <sup>&</sup>lt;sup>13</sup> If the SpO2 option is installed and enabled.
 <sup>14</sup> If the CO2 option is installed and enabled.
 <sup>15</sup> If the Hamilton Connect module is installed and enabled.
 <sup>16</sup> If INTELLIVENT-ASV is installed.

#### Control settings and ranges

Parameter (units)	Range Adult/Ped <sup>17</sup>	Range Neonatal <sup>17</sup>
%MinVol (%) <sup>18</sup>	25 to 350	
Apnea backup	On, Off	On, Off
ETS (%)	5 to 80	5 to 80
Flow (l/min) <sup>19</sup>	2 to 100 <sup>20</sup>	2 to 30
l:E <sup>21</sup>	1:9 to 4:1	1:9 to 4:1
IBW (kg) <i>(calculated)</i>	3 to 139	
Oxygen (%)	21 to 100	21 to 100
P high (in APRV) (cmH2O)	0 to 60	0 to 45
P high (in DuoPAP) (cmH2O)	0 to 60	3 to 45
P low (in APRV) (cmH2O)	0 to 35	0 to 25
Pat. height		
(cm)	30 to 250	
(in)	12 to 98	
PEEP/CPAP (cmH2O)	0 to 35	3 to 25
Plimit (cmH2O)	5 to 60	5 to 60
P-ramp (ms) <sup>22</sup>	0 to 2000	0 to 600
	ASV, NIV, NIV-ST, SPONT, VS: max = 200	NIV, NIV-ST, SPONT, nCPAP-PC, VS: max = 200
Rate (b/min) <sup>23</sup>	1 to 80	1 to 80
	APVcmv, PCV+: 4 to 80	<i>PSIMV</i> +: 5 to 80
	PSIMV+, NIV-ST: 5 to 80	APVcmv, PCV+, PSIMV+PSync, nCPAP-PC, NIV-ST, APVsimv + Apnea backup: 10 to 80
Set temp (°C)	INV: 35 to 41	INV: 35 to 41
	NIV: 30 to 35	NIV: 30 to 35
	HiFlowO2: 33 to 37	HiFlowO2: 33 to 37
Sex	Male, Female	
Sigh	On, Off	
SpeakValve	On, Off	
T gradient (°C)	-2 to 3	-2 to 3
T high <sup>23</sup> (in APRV and DuoPAP) (s)	0.1 to 40.0	0.1 to 40.0
T low (in APRV) (s)	0.2 to 40.0	0.2 to 40.0
TI (s) <sup>21,23</sup>	0.1 to 12.0	0.1 to 12.0
TI max (s)	0.5 to 3.0	0.25 to 3.0
		• • • • • • • • • • • • • • • • • • • •

<sup>17</sup> Parameter settings and ranges can vary depending on the selected mode.
18 Only in ASV mode.
19 Only for high flow oxygen therapy.
20 In some markets, the maximum possible Flow setting may be limited.
21 In PCV+, (S)CMV, and APVcmv modes, mandatory breath timing can be controlled by using a combination of inspiratory time (TI) and Rate, or by the I:E ratio; set the method in Configuration. All other modes are controlled by using a combination of inspiratory time (TI) and Rate.
22 P-ramp is limited to one-third (1/3) of TI time. Adjustment of TI time can override the P-ramp setting.
23 Startup setting derived from IBW (adult/pediatric), body weight setting (neonatal). Does not apply in ASV mode.

Parameter (units)	Range Adult/Ped <sup>17</sup>	Range Neonatal <sup>17</sup>
Trigger, flow (l/min) <sup>24</sup>	0.5 to 20.0	0.1 to 5.0
	APVcmv, PCV+: 0.5 to 20.0 / Off	APVcmv, PCV+: 0.1 to 5.0 / Off
Vt (ml)	20 to 2000	2 to 300
Vt/IBW	5 to 12	5 to 12
Vt/Weight (ml/kg) <sup>25</sup>		
Weight (kg)		0.2 to 30.0
ΔPcontrol (cmH2O) <sup>26</sup>	5 to 60	3 to 45
		nCPAP-PC: 0 to 45
ΔPinsp (cmH2O) <sup>26</sup>	3 to 60	3 to 45
ΔPsupport (cmH2O) <sup>26</sup>	0 to 60	0 to 45

<sup>&</sup>lt;sup>24</sup> Flow trigger is leak compensated.
<sup>25</sup> IBW is calculated using height and sex, for adult and pediatric patients. Actual body weight is used for neonates.
<sup>26</sup> Δ*Pcontrol*: Control pressure, added to PEEP/CPAP. Δ*Pinsp*: Inspiratory pressure, added to PEEP/CPAP. Δ*Psupport*: Pressure support, added to PEEP/CPAP.

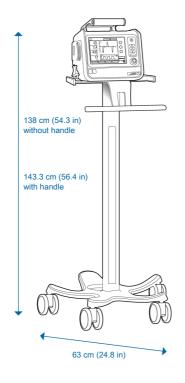
#### Monitoring parameters

Parameter (units	5)	Description
Pressure	AutoPEEP (cmH2O)	Unintended positive end-expiratory pressure
	PEEP/CPAP (cmH2O)	PEEP (positive end-expiratory pressure) and CPAP (continuous positive airway pressure)
	Driving pressure, ΔP (cmH2O)	Driving pressure, calculated value reflecting the difference between Pplateau and PEEP
	ΔPinsp (cmH2O)	Inspiratory pressure
	Pmean (cmH2O)	Mean airway pressure
	Ppeak (cmH2O)	Peak airway pressure
	Pplateau (cmH2O)	Plateau or end-inspiratory pressure
	Pprox (cmH2O)	Airway pressure at proximal patient interface
Flow	Flow (I/min)	HiFlowO2: The set flow of gas to the patient
		nCPAP: The average flow updated every second
		nCPAP-PC: The average flow during expiration, updated every breath
	Insp Flow (peak) (I/min)	Peak inspiratory flow, spontaneous or mandatory
	Exp Flow (peak) (l/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 (ml)	Inspiratory tidal volume
	VLeak (%)	Leakage percent or total minute volume leakage
	MVLeak (I/min)	Leakage percent or total minute volume leakage
	Vt/IBW or Vt/Weight (ml/kg)	Tidal volume is calculated by ideal body weight (adult/pediatric patients) or actual body weight (neonatal patients)
Oxygen	Oxygen (%)	Oxygen concentration of the delivered gas
	O2 consumption (l/min)	The current oxygen consumption rate
Time	CPR timer	MMP during CPR ventilation showing duration of CPR ventilation
	I:E	Ratio of the patient's inspiratory time to expiratory time for every breath cycle
	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
Lung 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 / (I*min))	Rapid shallow breathing index

Parameter (units)		Description
CO2	FetCO2 (%)	Fractional end-tidal CO2 concentration
	PetCO2 (mmHg)	End-tidal CO2 pressure
	slopeCO2 (%CO2/l)	Slope of the alveolar plateau in the PetCO2 curve, indicating the volume/flow status of the lungs
	V'alv (l/min)	Alveolar minute ventilation
	Vtalv (ml)	Alveolar tidal 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
	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
	OSI	Oxygen saturation index
	PI (%)	Perfusion index
	PVI (%)	Pleth variability index
Humidifier <sup>27</sup>	T Y-piece (°C)	Measured temperature at the Y-piece
	T humidifier (°C)	Measured temperature at water chamber exit

<sup>&</sup>lt;sup>27</sup> If HAMILTON-H900 humidifier integration is enabled, and a humidifier is connected and turned on.

#### Physical characteristics





Weight 6.5 kg (14.3 lb)

18.5 kg (40.8 lb) with trolley

The trolley can accommodate a maximum safe working load<sup>28</sup> of 44 kg (97 lb).

Dimensions

See graphic above

Trolley accessories

HAMILTON-H900 mounting kit, optional O2 bottle holding system, optional tubing support arm, water bottle holder, basket

 $<sup>^{\</sup>rm 28}$  The maximum safe working load applies to a stationary, properly load-balanced trolley.

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HAMILTON-T1