SOT EQUIPMENT

SOT
Suction and Oxygen Therapy Equipment

SPECIFICATION

Terminal Unit Connections

Flow-meters and suction regulators are available with probes to the following standards:BS, DIN, NFPA, AFNOR, JIS, SS, UNI, and ISO.

Note - where flow meters or suction devices are connected to medical gas terminal units installed within bedhead trunking systems, on occasion there can be problems with clearance and the connection of humidifiers/collection jars. In these instances an extra long probe shall be available. Please consult with the bedhead trunking supplier as BeaconMedæs cannot be held responsible for connectivity problems in these circumstances.

Gas Specificity

Flow meter's and vacuum suction units shall be supplied with gas specific probes and only attach to the corresponding medical gas terminal unit. Gas specific components shall be specifically sized to ensure that a correct gas specific assembly is achieved so that in normal course of dismantling for repair or maintenance, parts from other gases cannot inadvertently be used.

Materials

Flow meter shall be manufactured to EN 13220:1999 and ISO 15002:2008 and constructed from chromium-plated brass body, inner and external tube in polycarbonate and stainless steel ball. Other pieces shall be in brass, polyamide and NBR. Latex free.

High precision dial flow meter's shall be aluminium body, polycarbonate dial and chromium-plated brass DISS outlet. Other parts shall be made of stainless steel, NBR, silicone and polyamide.

Vacuum suction devices (high and low) shall be ABS and polycarbonate body and a polycarbonate vacuum gauge cover. O-rings shall be NBR and silicone, pneumatic mechanism in POM and TPE. inlet thread female WGAS ¼" shall be chrome-plated brass.

High precision continuous/intermittent suction devices shall be manufactured in aluminum (body), polycarbonate (scale), polysulfone (water trap), with remaining internal pieces made out of silicone, viton, POM and TPE.

Water trap and bacterial filter housing shall be in polycarbonate as standard or polysulphone on request.

Oxygen regulators shall be supplied to ISO 10524-1:2006, EN 738-1:1997 and constructed from chrome-plated brass (high pressure stage), chrome-plated aluminium, stainless steel, polycarbonate, NBR, sintered bronze (inlet filter) and TPE (gauge cover).

Sterilising Specification

SafetyTrap ® and DISS adapter:

Steam sterilisation in gravity autoclave:

- SafetyTrap® PC: 121 ºC, 1,3kg/cm², for 25 minutes*
- SafetyTrap® PSU: 134 ºC, 2,4kg/cm², for 15 minutes*
- DISS adapter: 134 ºC, 2,4 kg/cm², for 15 minutes *

* Drying time: 30 min

SafetyTrap® PC can be sterilised up to 40 times and SafetyTrap® PSU can be sterilisad up to 100 times. The DISS adapter can be sterilised an unlimited number of times. Before each use, verify that the device is not damaged.

Never put the product in direct contact with the autoclave chamber (it could be damaged). It is recommended to use a basket.

Humidifier:
Sterilisation should be conducted in an autoclave on a 25 min cycle at 121 ºC, 1,3 kPa (max. 40 times). Before sterilisation remove the tube and diffuser and consequently disposed.

Warranty

The flow meter and vacuum suction unit shall have a two-year warranty, subject to the recommended minimum routine maintenance operations being carried out by correctly competent persons.

CE Marking

The standard range of BeaconMedæs SOT, flow meter and Vacuum Regulator Unit are 'CE' marked under the Medical Devices Directive 93/42/EEC with approval from notified body no. 0051. Under this directive, the specified products are classified as Class IIa Medical Devices.

Technical Specification and Ordering

Disclaimer: Pictures are not exact representations of the part numbers

Product	Part No
Vacusill 2 HV, high vacuum regulator with safety trap PC and BS probe	4233 5900 00
Vacusill 2 HV, high vacuum regulator with safety trap PC and NF probe	4233 5900 01
Vacusill 2 HV, high vacuum regulator with safety trap PC and DIN probe	4233 5900 02
Vacusill 2 LV, low vacuum regulator with safety trap PC and BS probe	4233 5900 03
Vacusill 2 LV, low vacuum regulator with Bacterial Filter and BS probe	4233 5900 04
Vacusill 2 LV, low vacuum regulator with Bacterial Filter and DIN probe	4233 5900 05
Vacusill 2 HV, high vacuum regulator with Bacterial Filter and BS probe	4233 5900 06
High Vacuum Regulator with DISS Collection Jar 1L and BS probe	4233 5900 07
Vacusill 2 HV PC4 (4 L), NF	4233 5900 08
Vacusill 2 HV PC2 (1.7 L), BS	4233 5900 09
Vacusill 2 HV PC2 (1.7 L), NF	4233 5900 10
Vacusill 2 HVR, rail mounted, safety trap PC	4233 5900 11
Vacusill 2 HVR, rail mounted, PC1 Diss, BS	4233 5900 12
Vacusill 2 LVR PC1 Diss, BS	4233 5900 13
Suction Trolly Vacusill 2 - 1HV 1PC4	4233 5900 14
Water monometer regulator, 0-30 cmH_2O Pressure	4233 5900 15
Rail mounted thoracic drainage assembly	4233 5900 16
Suction trolley Vacusill 2, 1 LV - 1 PC4	4233 5900 17
PC1	4233 5900 18
PC2	4233 5900 19
PC4	4233 5900 20
Collection set PC 1.7 litres	4233 5900 21
VAC3 pediatric count-int safety trap PSU	4233 5900 22
VAC3 cont-int safety trap PSU	4233 5900 23
Vacujet safety trap pc, BS	4233 5900 24
Vacujet safety trap pc, DIN	4233 5900 25

Vacuum Regulating Units

Product	High Suction	Low Suction
Range (kPa/mmHg)	0-100 / 0-750	0-20 / 0-150
Precision (%)	± 5	± 5
Flow (l/min) (@ supply 80kPa –120 l/min)	100	90
Dimensions (mm)	240 x 86 x 86	240 x 86 x 86
Weight (g)	310	360
Negative Pressure Relief Valve	N	Y

Product	Flow meter - Single
Standards	EN13220:1999 ISO15002:2008
Precision (%)	± 10
Dimensions (mm)	56 x 37
Weight (g)	98
Inlet Connection	Whitworth-gas 1/8"
Outlet Connections	9/16"x 18h UNF

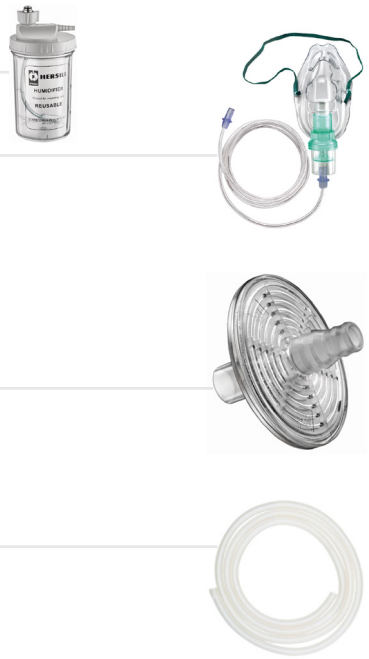
Product	Flow meter - Single
4233 5900 36	Perflow Multy OX1, BS
4233 5900 37	Perflow Multy OX5, BS
4233 5900 38	Perflow Multy OX5, DN
4233 5900 39	Perflow P4 OX15, BS
4233 5900 40	Perflow P4 OX15, DN
4233 5900 41	Perflow P4 OX50, BS
4233 5900 42	Perflow P4 AR15, BS
4233 5900 43	Perflow P4 AR50, BS

High Precision Dial Flow meter

Part No	Flow (l/min)	Stages (l/min)													
O_2 - 5540986 (BS)	0-1	0	0.1	0.15	0.2	0.25	0.3	0.35	0.4	0.5	0.6	0.7	0.8	0.9	1
O_2 - 5540853 (BS)	0-5	0	0.1	0.2	0.3	0.4	0.6	0.8	1	1.5	2	2.5	3	4	5
O_2 - 5540988 (BS) AIR - 5540987 (BS) O_2 Double - 5540056 (DIN)	0-15	0	0.2	0.4	0.7	1	1.5	2	3	4	6	8	10	12	15
O_2 - 5540813 (BS) AIR - 5540833 (BS)	0-50	0	2	4	8	12	16	20	24	28	32	36	40	45	50

* 0.50 l/min flowmeter is indicated for CPAP

Product	Part No
Humidifier (Sterilisable) 9/16" UNF	4233 5900 44
Connector for O_2 Hose, DISS Plastic	4233 5900 45
O_2 Face Mask for single patient use - Adult	4233 5900 46
O_2 Face Mask for single patient use - Child	4233 5900 47
O_2 Nasal Cannula for single petient use	4233 5900 48
Face Mask with Nebuliser for single patient use - Adult	4233 5900 49
Face Mask with Nebuliser for single patient use - Child	4233 5900 50
Safety trap in polycarbonate for Vacusill 2	4233 5900 51
Set 100 units particl filters safety trap for Vacusill 2	4233 5900 52
Hydrophobic filter bacterial/ Viral (10 units)	4233 5900 53
Adapter + filter bacterial / viral	4233 5900 54
Complete lid for 1 L. polycarbonate collection jar	4233 5900 55
Complete lid for 1,7 and 4 L. polycarbonate collection jar	4233 5900 56
Transparent PVC hose 8 x 13 mm (1 meter)	4233 5900 57
Transparent PVC hose 9 x 15 mm (1 meter)	4233 5900 58
Rail coupling system with "EN" piece for jars, HERSILL	4233 5900 59
"EN" Collection bottles wall support, HERSILL	4233 5900 60
Suction trolley Vacusill 2 - 1HV 2PC4, HERSILL	4233 5900 61



Flow Meter

Product	Flow meter - Single	Flow meter - Double	Flow meter - Selector
Standards	EN 13220 : 1999 ISO 15002:2008	EN 13220 : 1999 ISO 15002:2008	EN 13220 : 1999 ISO 15002:2008
Flow (l/min)	0-15	0-15	0-15
Precision (%)	± 10	± 10	± 10
Calibration	4,2 kg/cm² - 60 psi - 414 KPa	4,2 kg/cm² - 60 psi - 414 KPa	4,2 kg/cm² - 60 psi - 414 KPa
Calibration Temperature	21ºC - 70 ºF	21ºC - 70 ºF	21ºC - 70 ºF
Dimensions (mm)	145 x 48	145 x 145	155 x 63
Weight (g)	160	570	214
Inlet Connection	Whitworth-gas 1/8"	Whitworth-gas 1/8"	Whitworth-gas 1/8"
Outlet Connection	9/16"x18h UNF	9/16"x18h UNF	9/16"x18h UNF

Product	Part No
O_2 Flowmeter 0-15 l/min without probe	4233 5900 26
O_2 Flowmeter 0-30 l/min without probe	4233 5900 27
O_2 Flowmeter 0-15 l/min with direct BS probe	4233 5900 28
O_2 Flowmeter 0-15 l/min with direct NF probe	4233 5900 29
O_2 Flowmeter 0-15 l/min with direct DN probe	4233 5900 30
O_2 Flowmeter (Twin) with direct BS probe, 0-15 l/min	4233 5900 31
O_2 Flowmeter selector 0-15 l/min with direct BS probe	4233 5900 32
Air Flowmeter 0-15 l/min with direct BS probe	4233 5900 33
Air Flowmeter 0-15 l/min, rail mounted, with BS remote probe	4233 5900 34
Air Flowmeter (Twin) with direct BS probe, 0-15 l/min	4233 5900 35

Product	Part No
V7 MX PC1	4233 5900 62
V7 Plus B Emergency, PC1	4233 5900 63
V7 Plus B, PC1	4233 5900 64
V7 Plus ac, PC1, 220 V	4233 5900 65
V7 Plus ac, PC1, 110 V	4233 5900 66

	V7 MX	V7 Plus B Emergency	V7 Plus B	V7 Plus AC	V7 AC
Range	High Vaccum/ High Flow	High Vaccum/ High Flow	High Vaccum/ High Flow	High Vaccum/ High Flow	High Vaccum/ High Flow
Supply	100-240 VAC/12VDC/Battery	100-240 VAC/12VDC/Battery	100-240 VAC/12VDC/Battery	100-240 VAC/12VDC/Battery	100-240 VAC/12VDC/Battery
Vacuum	84 kPa/630 mmHg	84 kPa/630 mmHg	84 kPa/630 mmHg	84 kPa/630 mmHg	84 kPa/630 mmHg
Flow	30 l/min	30 l/min	30 l/min	30 l/min	30 l/min
Power	160W (AC)/84 W (DC)	160W (AC)/84 W (DC)	160W (AC)/84 W (DC)	160W (AC)/84 W (DC)	160W (AC)/84 W (DC)
Battery	12 V, 5 Ah. Ac-Pb	12 V, 5 Ah. Ac-Pb	12 V, 5 Ah. Ac-Pb	12 V, 5 Ah. Ac-Pb	12 V, 5 Ah. Ac-Pb
Autonomy (Battery)	65 minutes	65 minutes	65 minutes	65 minutes	65 minutes
Battery Charger	Internal	External	External	N/A	N/A
Weight	4.5 k.g	4.2 k.g	4.2 k.g	3.5 k.g	3 k.g
Dumensions (Packaged)	460 x 210 x 290	460 x 210 x 290	460 x 210 x 290	460 x 210 x 290	460 x 210 x 290
Noise Level	49+- 1.5 db (AS)/1 m	59+- 1.5 db (AS)/1 m	49+- 1.5 db (AS)/1 m	49+- 1.5 db (AS)/1 m	49+- 1.5 db (AS)/1 m
Part Number (with 1L PC Jar)	4233 5900 62	4233 5900 63	4233 5900 64	4233 5900 65	4233 5900 66

Life is in the details.®

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