

AEROsuc®

Suction Devices

Manual | Pneumatic | Electric

Medical suction for Homecare, Emergency Medical Services and Hospital



HUM
Systems for Life®

AEROsuc® - Rescue - Manual Suction Pump

Manual

Manually powered suction device for oropharyngeal suction, according to DIN EN ISO 10079-2. Developed for quick use, energy-independent and maintenance-free. Suitable for adults and children.

- Easy one-hand operation with maximum performance
- Max vacuum (within 10 s) -60 kPa, -450 mmHg, -0.6 bar
- Free air flowrate > 0.33 l/s (20 l/min)

Scope of supply

Hand-held device ❶ incl. suction container 300 ml with overflow protection ❷, adapter for suction catheters ❸ as well as PVC suction tubings, Size S and L ❹ ❺

For emergency and transport cases



Sealing system at the pump

Perfect fit of the suction container



Sealing ring at the pump inlet

Protection system devices

One-way valve technology



Overflow protection
Contamination protection
for the pump

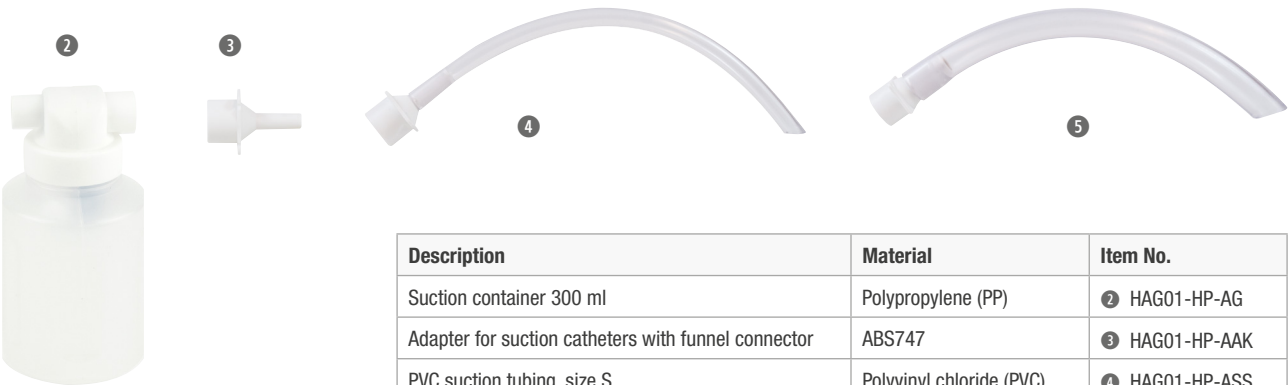


Valve cap
Return protection
towards patient

Dimensions (H x W x D)	Weight	Item No.
180 x 220 x 80 mm	275 g	❶ HAG01-HP

AEROsuc® - Rescue - Manual Suction Pump | Accessories and Spare Parts

Scope of supply for HAG01-HP and available as spare parts. For single use.



Description	Material	Item No.
Suction container 300 ml	Polypropylene (PP)	❷ HAG01-HP-AG
Adapter for suction catheters with funnel connector	ABS747	❸ HAG01-HP-AAK
PVC suction tubing, size S	Polyvinyl chloride (PVC)	❹ HAG01-HP-ASS
PVC suction tubing, size L	Polyvinyl chloride (PVC)	❺ HAG01-HP-ASL

VacUp - Foot Suction Pump

Manual

Energy-independent and maintenance-free secretion foot suction pump developed for daily use, according to DIN EN ISO 10079-2. For suction of larger accumulations of blood, mucus, saliva, etc. as well as viscous and solid food components.

- Simple and reliable handling
- Powerful at max. vacuum of -82 kPa, -615 mmHg, -0.82 bar with a suction capacity of 72 l/min (air)
- Particularly resistant materials | Autoclavable at 121 °C
- Can also be used to evacuate vacuum mattresses

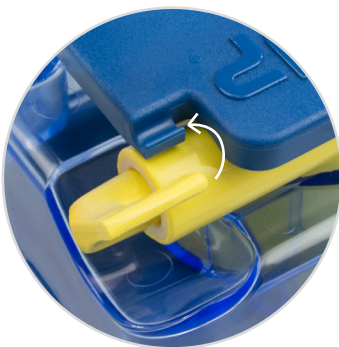
Features

Including 650 large suction container with overflow protection and suction tubing 1300 mm (Ø 8 mm) with tubing connector

Also suitable for manual operation

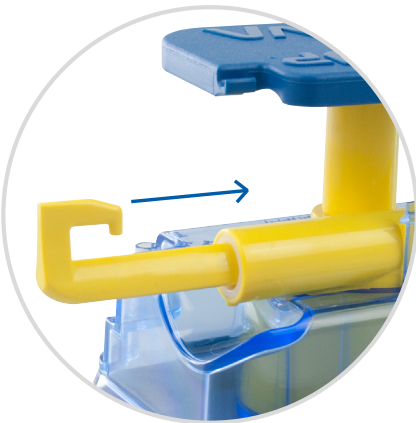


1 clip - 2 functions



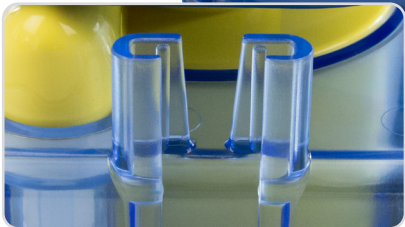
1. Pedal lock

For space-saving storage



2. Venting device

Reducing the pressure or venting through complete insertion



Slot for additional collection container

Dimensions (L x W x D)	Weight	Item No.
180 x 130 x 110 mm	850 g	HAG01-FP

AEROSuc® - Components for Suction Devices | Portable and Mobile - Pneumatic

Single components for the individual composition of portable or mobile suction devices.
Possible configuration with different vacuum regulators or suction injectors.

Example configuration for your individual product solution*

Portable

- Double bracket and suction containers 1000 ml or 2000 ml, made of polysulfone
- Vacuum regulator / suction injector, with 1.5 m pressure tubing and ZGA plug as well as overflow container with bacterial filter
- Lid with pressure or screw cap and integrated overflow protection

Mobile

- Trolley, chrome-plated, with insertions for 2 suction containers and double bracket for quivers
- Double bracket and quiver 500 mm long, made of polycarbonate, for suction catheters
- Suction containers 1000 ml or 2000 ml, made of polysulfone
- Vacuum regulator / suction injector, with 1.5 m pressure tubing and ZGA plug as well as overflow container with bacterial filter
- Lid with pressure or screw cap and integrated overflow protection

Different vacuum regulators

- Vacuum range: 0 - 250 mbar | 0 - 600 mbar | 0 - 1000 mbar
- Housing: grey or yellow | Manometer: analogue | digital (upon request)
- Connection: 1.5 m pressure tubing with ZGA plug DIN 13260
- With overflow container and bacterial filter

Suction injectors

- Suction performance up to 800 mbar
- Housing: grey or yellow | Manometer: analogue | digital (upon request)

Exemplary presentation portable configuration with vacuum regulator ❶
or suction injector ❷



Exemplary presentation
mobile configuration with vacuum regulator*



*Order and delivery not possible as a set, only as single components. Suction containers without tubing set.

AEROsuc® - Vacuum Regulators

Pneumatic

Vacuum regulators according to DIN EN ISO 10079-3, for medical or surgical suction, for the connection to DIN couplings or wall boxes / vacuum lines in hospitals (ZGA).

- Max. flow 110 l/min (pump with flow 160 l/min)
- Freely rotatable control valve at the stop - no blocking possible
- Easy click closure for easy attachment and detachment of the overflow container
- Connecting nozzle made of metal, built directly into the regulator body
- With shatter-proof overflow container made of polycarbonate and bacterial filter on the front (effectiveness 99.97 %, particle size 0.3 µm)

Different models

- Vacuum range: 0 - 250 mbar | 0 - 600 mbar | 0 - 1000 mbar
- Manometers: analogue or digital | Housing: grey or yellow
- Direct connection DIN plug 13260 | 1.5 m pressure tubing with ZGA plug and bracket for wall rail claw*



Manometer analogue or digital



*Versions with pressure tubing including wall rail claw HWS01-KLEK

Analogue



Digital



Vacuum regulator analogue

	Item No.			
	① ZGA plug		② 1.5 m pressure tubing with ZGA plug	
Vakuum range	Grey	Yellow	Grey	Yellow
0 - 250 mbar	HAG02-C2RV-ZGA	HAG02-C2YRV-ZGA	HAG02-C2RVS-ZGA	HAG02-C2YRVS-ZGA
0 - 600 mbar	HAG02-C6RV-ZGA	HAG02-C6YRV-ZGA	HAG02-C6RVS-ZGA	HAG02-C6YRVS-ZGA
0 - 1000 mbar	HAG02-C10RV-ZGA	HAG02-C10YRV-ZGA	HAG02-C10RVS-ZGA	HAG02-C10YRVS-ZGA

Vacuum regulator digital

	Item No.			
	③ ZGA plug		④ 1.5 m pressure tubing with ZGA plug	
Vakuum range	Grey	Yellow	Grey	Yellow
0 - 250 mbar	HAG02-CD2RV-ZGA	HAG02-CD2YRV-ZGA	HAG02-CD2RVS-ZGA	HAG02-CD2YRVS-ZGA
0 - 600 mbar	HAG02-CD6RV-ZGA	HAG02-CD6YRV-ZGA	HAG02-CD6RVS-ZGA	HAG02-CD6YRVS-ZGA
0 - 1000 mbar	HAG02-CD10RV-ZGA	HAG02-CD10YRV-ZGA	HAG02-CD10RVS-ZGA	HAG02-CD10YRVS-ZGA

AEROsuc® - Suction Injectors

Pneumatic

Suction injectors according to DIN EN ISO 10079-3, for the suction of liquids and secretions, with ZGA plug (AIR / O₂) for the connection to DIN couplings or wall boxes / compressed air or oxygen lines in hospitals (ZGA).

- Max. vacuum 800 mbar (± 50 mbar), flow rate 40 l/min, limited gas consumption 60 l/min at 800 mbar
- High performance silencer guarantees quiet operation
- Extremely robust body made of anodised aluminum and with shatter-proof overflow container made of polycarbonate

Different models

- With overflow container and filter | With separate connecting nozzle
- Manometer: analogue or digital | Housing: grey or yellow
- Direct connection DIN plug 13260 | 1.5 m pressure tubing with ZGA plug and bracket for wall rail claw*

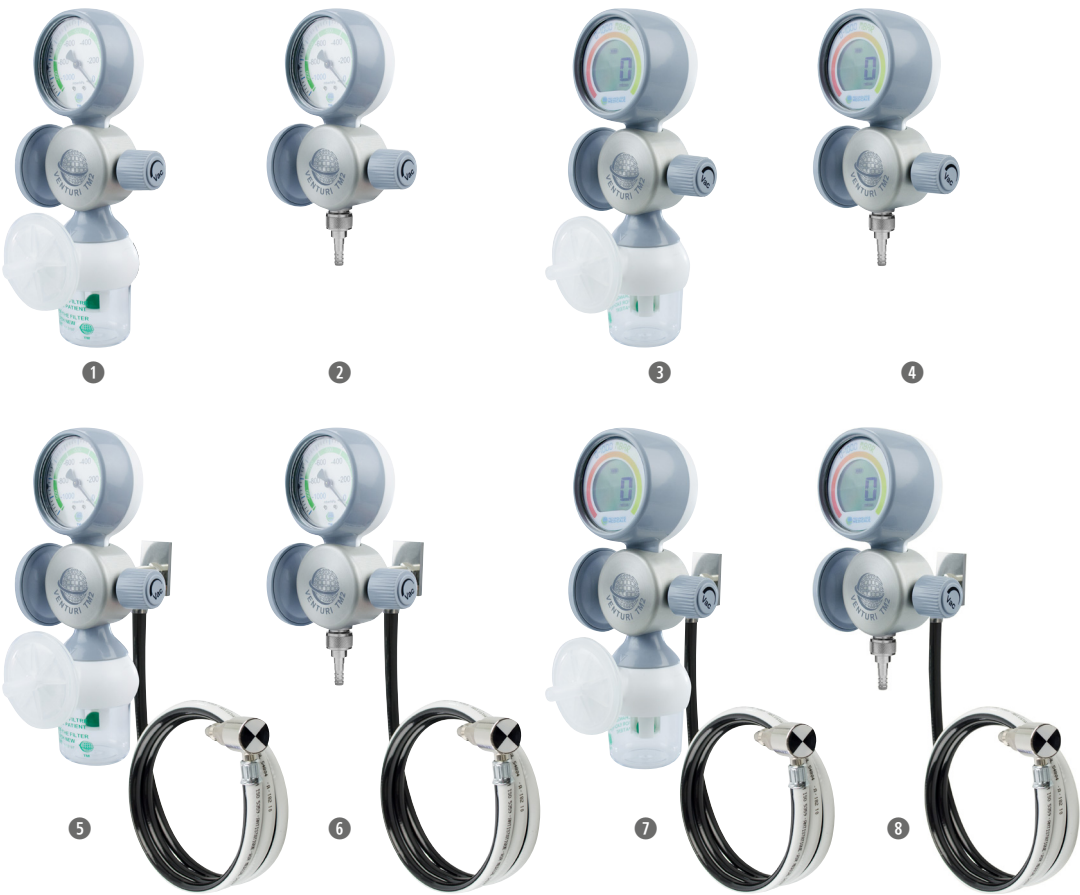


*Versions with pressure tubing including wall rail claw HWS01-KLEK



Analogue

Digital



Retrofittable:
150 ml overflow container
HAG02-RV150SI



Optional for versions
2 4 6 8

Suction injector analogue

Outlet	Item No.	
	ZGA plug	1.5 m pressure tubing with ZGA plug
Overflow container and filter with connecting nozzle	1 HAG02-IRV-ZGA	5 HAG02-IRVS-ZGA
Barbed hose adapter	2 HAG02-ISA-ZGA	6 HAG02-ISAS-ZGA

Suction injector digital

Outlet	Item No.	
	ZGA plug	1.5 m pressure tubing with ZGA plug
Overflow container and filter with connecting nozzle	3 HAG02-IDRV-ZGA	7 HAG02-IDRVS-ZGA
Barbed hose adapter	4 HAG02-IDSA-ZGA	8 HAG02-IDSAS-ZGA

Overflow containers, bacterial filters, silencer, analogue and digital manometers and ZGA plugs.



Description	Item No.
Reservoir / overflow container 100 ml, autoclavable up to 134 °C, suitable for AEROsuc® - Vacuum Regulators and Suction Injectors	➊ HAG02-RV100SC
Reservoir / overflow container 150 ml, autoclavable up to 134 °C, suitable for AEROsuc® - Suction Injector versions with barbed hose adapter	➋ HAG02-RV150SI
Bacterial filter for overflow container HAG02-RV100SC	➌ HAF03-M50/100
Bacterial filter - suction filter membrane for overflow container HAG02-RV150SI	➍ HAF03-M50
Wall rail claw, with insertion for bracket	➎ HWS01-KLEK
Silencer for AEROsuc® - Suction Injectors	➏ HAG02-I-SD
Analogue manometer for AEROsuc® - Suction Injectors	➐ HAG02-VGA-SI
Digital manometer for AEROsuc® - Suction Injectors	➑ HAG02-VGD-SI
Analogue manometer for AEROsuc® - Vacuum Regulator, 250 mbar, housing grey	➒ HAG02-VGA-250G-VR
Analogue manometer for AEROsuc® - Vacuum Regulator, 600 mbar, housing grey	➓ HAG02-VGA-600G-VR
Analogue manometer for AEROsuc® - Vacuum Regulator, 1000 mbar, housing grey	➓ HAG02-VGA-1000G-VR
Analogue manometer for AEROsuc® - Vacuum Regulator, 250 mbar, housing yellow	➔ HAG02-VGA-250Y-VR
Analogue manometer for AEROsuc® - Vacuum Regulator, 600 mbar, housing yellow	➔ HAG02-VGA-600Y-VR
Analogue manometer for AEROsuc® - Vacuum Regulator, 1000 mbar, housing yellow	➔ HAG02-VGA-1000Y-VR
Digital manometer for AEROsuc® - Vacuum Regulator, 250 mbar, housing grey	➕ HAG02-VGD-250G-VR
Digital manometer for AEROsuc® - Vacuum Regulator, 600 mbar, housing grey	➕ HAG02-VGD-600G-VR
Digital manometer for AEROsuc® - Vacuum Regulator, 1000 mbar, housing grey	➕ HAG02-VGD-1000G-VR
Digital manometer for AEROsuc® - Vacuum Regulator, 250 mbar, housing yellow	➖ HAG02-VGD-250Y-VR
Digital manometer for AEROsuc® - Vacuum Regulator, 600 mbar, housing yellow	➖ HAG02-VGD-600Y-VR
Digital manometer for AEROsuc® - Vacuum Regulator, 1000 mbar, housing yellow	➖ HAG02-VGD-1000Y-VR
ZGA plug / Combo plug AIR / O ₂ for AEROsuc® - Suction Injectors	➗ HAG02-O2/AIR-SI
ZGA plug for AEROsuc® - Vacuum Regulators	➘ HAG02-VAC-VR
„High Vacuum Grease“ for AEROsuc® - Vacuum Regulators	HAG02-HVG-VR

Reusable suction containers for pneumatic suction devices, according to DIN EN ISO 10079-3.

Different models

- 1000ml | 2000ml | 4000ml
- Made of polysulfone (autoclavable at 134 °C) | Made of polycarbonate (autoclavable at 121 °C)

All lids with integrated overflow protection

- Screw cap (metal) | Pressure cap (polypropylene, silicone)
- With integrated bracket for wall rail claw (1000 ml | 2000 ml), separately available at 4000 ml (HWS01-KLEK)



Item No.	Container		With lid (screw cap)	With lid (pressure cap)	
	Material	Volume	Metal	Polypropylene	Silicone
	Polysulfone	1000 ml	1 HAG02-1000KD-PSF	2 HAG02-1000KP-PSF	3 HAG02-1000KS-PSF
		2000 ml	4 HAG02-2000D-PSF	5 HAG02-2000P-PSF	6 HAG02-2000S-PSF
		4000 ml	-	10 HAG02-4000P-PSF	-
	Polycarbonate	2000 ml	7 HAG02-2000D-PC	8 HAG02-2000P-PC	9 HAG02-2000S-PC
		4000 ml	-	11 HAG02-4000P-PC	-

Containers

Material	Volume	Item No.
Polysulfone	1000 ml	HAG02-1000K-G-PSF
	2000 ml	HAG02-2000-G-PSF
	4000 ml	HAG02-4000-G-PSF
Polycarbonate	2000 ml	HAG02-2000-G-PC
	4000 ml	HAG02-4000-G-PC

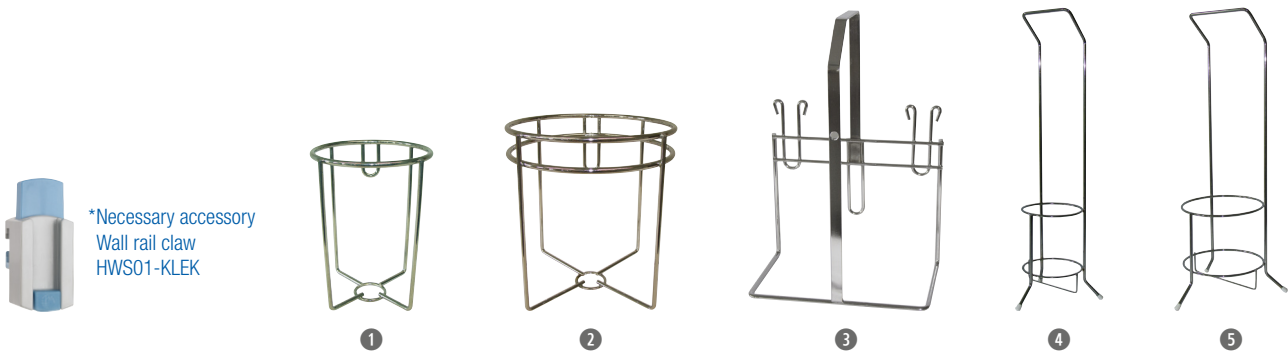


Lid	Screw cap	Pressure cap		Suitable for suction containers
	1 Metal	2 Polypropylene	3 Silicone	
Item No.	HAG02-2000-DD-PSF	HAG02-2000-DP-PSF	HAG02-2000-DS-PSF	1000 ml 2000 ml
	-	HAG02-4000-DP	-	4000 ml

AEROsuc® - Brackets for Suction Containers

Accessories - Suction Containers

Single, double or standing brackets for suction containers, chrome-plated.

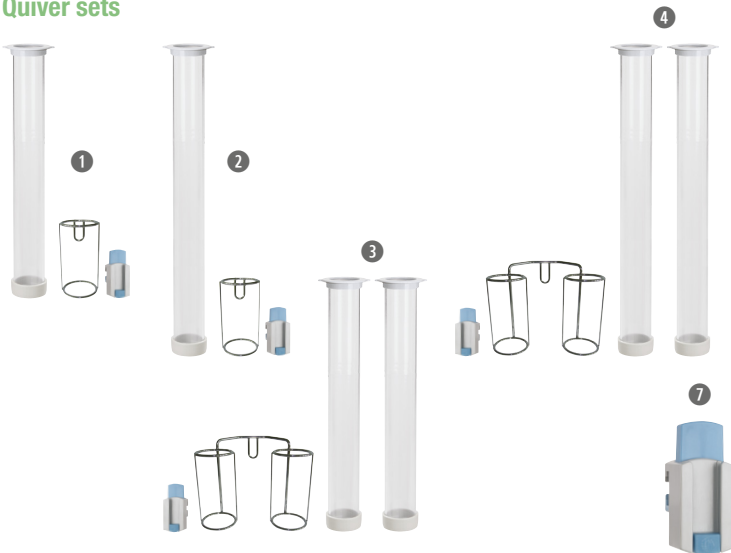


Description	Item No.
Bracket for 2000 ml suction container, with integrated bracket for wall rail claw*	1 HAG02-2000-H
Bracket for 4000 ml suction container, with integrated bracket for wall rail claw*	2 HAG02-4000-H
Double bracket for 1000 ml and 2000 ml suction containers, with integrated bracket for wall rail claw*	3 HAG02-2000-H2
Standing bracket for 2000 ml suction container	4 HAG02-2000-HS
Standing bracket for 4000 ml suction container	5 HAG02-4000-HS

AEROsuc® - Quiver Sets and Individual Parts

Quiver sets with polycarbonate quivers, length 400 mm or 500 mm, wall rail claw and chrome-plated single or double brackets with integrated bracket for wall rail claw and items that can be ordered individually, for storing suction catheters.

Quiver sets



Individual parts



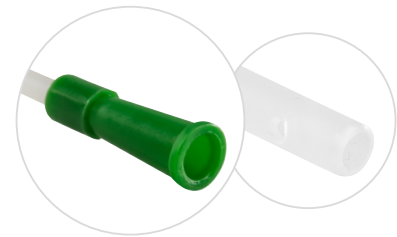
	Description	Item No.
Quiver Sets	Quiver 400 mm, bracket and wall rail claw	1 HAG02-KÖ-400
	Quiver 500 mm, bracket and wall rail claw	2 HAG02-KÖ-500
	Double quiver 400 mm, double bracket and wall rail claw	3 HAG02-KÖ-400-H2
	Double quiver 500 mm, double bracket and wall rail claw	4 HAG02-KÖ-500-H2
Individual Parts	Single bracket	5 HAG02-KÖ-H
	Double bracket	6 HAG02-KÖ-H2
	Wall rail claw	7 HWS01-KLEK
	Quiver 400 mm	8 HAG02-KÖ-400/E
	Quiver 500 mm	9 HAG02-KÖ-500/E

AEROsuc® - Suction Catheters








 Accessories - Suction Devices

Suction catheters made of latex-free PVC, with soft medical tube quality (70 ± 2 Shore A). Length approx. 50 cm, individually sterile packed.

- Good gliding properties
- Central opening and 2 lateral eyes that prevent the catheter tip from being sucked
- Atraumatic rounded catheter tip for minimal irritations of the mucous membranes



Colour-coded funnel connectors

Charriere (CH)	Colour	Item No.
6	 Light Green	HAK11-50-06
8	 Blue	HAK11-50-08
10	 Black	HAK11-50-10
12	 White	HAK11-50-12
14	 Dark Green	HAK11-50-14
16	 Orange	HAK11-50-16
18	 Red	HAK11-50-18

AEROsuc® - Suction Connection Tubing

PVC suction connection tubing with funnel connector and fingertip suction interrupter, CH 25, length 200 cm, individually sterile packed.



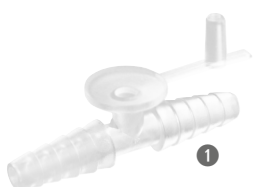
Item No.
HAS02-25-200-TK/FT



Upon request, also available in other lengths, charrières and with different connections

AEROsuc® - Suction Interrupter

Suction interrupters for vacuum control, for use between suction catheter and connecting tubing.



1



2



3

Description	Item No.
Fingertip suction interrupter with finger recess and sealing plug	1 HAU11-FT
Suction interrupter with dosing tip and hook for rail systems	2 HAU01-DTS
Suction interrupter with finger recess and hook for rail systems	3 HAU01-FMS

AEROsuc® - EASY Home

Electric

Electrically operated suction pumps for use in the areas of homecare and other healthcare facilities. For removal of secretions and fluids from the airways as well as infection material from wounds.

Powerful and smooth running

- Max. vacuum 0.7 bar (530 mmHg)
- High flow rate: > 20 l/min
- Low-noise level: 55 dB +/- 5%
- Approx. 50 min continuous battery operation

More mobility for the user

- Available as a mains version or with an integrated rechargeable battery
- Lightweight (2.4 or 2.6 kg)
- Convenient transport with handle or in the storage bag



AEROsuc® - EASY Home 1
Mains Version



AEROsuc® - EASY Home 2
Battery Version

Clear control panel

All control elements are combined in the control panel

- Toggle switch for easy on and off
- Manometer display in bar and mmHg
- Stepless vacuum regulation
- Battery status indicator (with battery version)



Control panel EASY Home 2



Efficient and reliable

Dual hygiene concept

1. Suction container with overflow protection

- 1000 ml capacity
- Level scale (100 ml division)
- Closable opening in the lid for fast emptying and sampling
- Lockable patient connection
- Easy cleaning
- Reusable, for single-patient-use

2. Suction filter

- Protection against contamination

Specifications	Item No.	
	HAG03-HC1 (EASY Home 1)	HAG03-HC2 (EASY Home 2)
Scope of supply	Consisting of suction pump and accessories ❶ - ❹	
Dimensions (W x H x D)	36.4 x 21.3 x 17.5 cm	
Weight (incl. adapter cable)	2.40 kg	2.60 kg
Power cable (adapter)	Input: 100-240 volt ~ 50-60 Hz., 1,1 A; Output: 12 volts === 4.0 A	
Input DC connection	12 Volt === 4.0 A	
Internal power supply	-	Lithium-ion battery: 11,1 V / 4400 mAh
Battery charging time	-	8 hours
Battery life (after 8 hours charging)	-	approx. 50 min (at max. suction power)
Max. vacuum	0,7 bar (530 mmHg)	
Min. vacuum	≤ 0,16 bar (≤ 125 mmHg)	
Max. suction power (free flow)	> 20 l/min	
Noise level	55 dB +/- 5% (from 1 m distance)	
Operating life	≥ 2 years	

AEROSuc® - EASY Home | Accessories and Spare Parts



Description	Item No.
Suction container with overflow protection, 1000 ml, lid made of PP, container made of PC	❶ HAG03-HC-AG1
Suction connection tubing 1.80 m with funnel connectors	❷ HAG03-HC-AS1
Fingertip suction interrupter, with finger recess and sealing plug	❸ HAU11-FT
Bacterial / suction filter	❹ HAG03-HC-AF
Silicone connecting tubings, ID 8 mm / OD 14 mm, 0.15 m, 2 pieces	❺ HAS01-8/14-150-SET
Device / air filters, 6 pieces (spare) 5 pieces (accessory)	❻ HAG03-HC-GF/6
Power connection cable	❼ HAG03-HC-NSEU
Power adapter EU	❽ HAG03-HC-NTEU
Transport bag, black	❾ HAG03-HC-T
Car adapter 12V	❿ HAG03-HC-AA
Filter cap for device / air filter	⓫ HAG03-HC-GF-K



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