



ARDO - High performance instrumentation for medical and surgical use

## ARDO Master and Senator

Our new high performance suction pumps for medical and surgical use



## Reliability - Made in Switzerland

Our many years of experience in the development and manufacture of suction pumps are incorporated for your benefit in the new generation of Master and Senator pumps.



## Well-proven suction pumps with optimized technology and a new, modern design

- ARDO Master suction pump with suction capacity now increased to 50 l/min
- ARDO Senator suction pump with suction capacity of 30 l/min
- The maintenance-free "LowFriction" piston-cylinder system ensures low vibration, and almost silent operation with minimal wear
- Suction strength can be continuously and precisely adjusted
- Rapid vacuum creation of up to 85kPa
- Continuing focus on safety and extended operating life
- Reliable "3guard" protective system with float-levellers integrated into the bottle lids, and a hydrophobic bacterial filter
- Compact and user-friendly pump with a large, integrated, recessed hand-grip
- Enlarged, easy to read pressure gauge
- Emphasis on easy operation
- Both pump and mobile stand equipped with generous fitting rails for bottles and accessories
- Optional: space-saving mobile stand designed to complement pump, with anti-static rollers
- Many applications in clinics, hospitals and practices
- Adaptable for several different uses
- **New** reusable polysulfon bottle system available
- Disposable bottle system available



## Innovative technology makes that subtle difference

The premium-quality graphite piston and the precision manufactured Pyrex glass cylinder are at the heart of this unique "LowFriction" piston-cylinder system. This maintenance-free system promises low vibration and practically silent operation.

High-quality components combined with Swiss precision, guarantee optimal functioning. Rapid vacuum creation of up to 85kPa and high suction performance (Master 50 litres/minute and Senator 30 litres/minute) ensure outstanding operation in every application.



## Maximum safety for you and your patients

The "3guard" protective system ensures the best protection and maximum safety in all situations. A sensitive, optimised float-lever on the bottle lid minimises the risk of overflow.

The hydrophobic bacterial filter has a dual function. It closes in the event of overflow and foam formation, simultaneously preventing internal contamination of the pump, and providing highly efficient protection against bacteria.



## Key-note Aspect: User-friendly operation

Suction strength can be precisely set to the level required, using the sensitive and continuously adjustable vacuum controller. A 63 mm diameter, easy to read dial-gauge shows the selected pressure (kPa and mmHg).

The newly developed compact housing features a modern, functional design which makes for practical handling and easy operation. Cleaning is facilitated by the large, easily accessible surface areas, rounded corners and smooth surface material. The recessed hand-grip, integrated into the pump housing, and the large visible vacuum controller ensure excellent ergonomics.



Both the pump itself, and the optional mobile stand, come with a long fitting rail. Re-usable bottles, accessories, and disposable systems with different capacities, can be quickly and safely attached, while the stability and easy operation of the pump remain unaffected.



## Recommended applications

The Master and Senator pumps can be adapted for many different uses with our application sets:

- ARDO Master application sets are ideal for use in surgical suction and liposuction. ARDO Master is also especially suitable for dental surgery procedures.
- ARDO Senator application sets are ideal for the removal of secretions, for vacuum extraction, uterine suction and for pleura drainage. The ARDO Senator is also ideally suited to endoscopy procedures.



**Flexibility through an innovative range of accessories**

The newly introduced, space saving mobile stand complements the new pump design perfectly. It has been specially developed for the demanding hospital routine, because its solid construction with anti-static rollers and long-life roller fittings make it extremely stable. The generous fitting rail offers plenty of room for a range of accessories.



Our robust reusable bottles with the user-friendly float-lever-lid technology are available in 1, 2 and 5 litre versions. The bottles are made of high strength, or tough polysulphone.



The sealed ARDO disposable system\* is a genuine alternative to reusable bottles. It offers optimum safety, the simplest possible handling and can be used in a variety of applications.

Other accessories: foot-controlled vacuum regulator, various suction cups, switch-over valves, Apgar timer, a practical instrument tray, curettes and various tubes and adaptors.

\* The ARDO disposable system is not available in the United Kingdom.



Technical data	ARDO Master	ARDO Senator
Performance		
Suction capacity	50 litres/minute	30 litres/minute
Vacuum	up to 85kPa, up to 640mmHg	up to 85kPa, up to 640mmHg
Miscellaneous		
Mains voltage/Mains frequency	230 Volts, 50/Hz; 115 Volts, 50/60Hz	230 Volts, 50/Hz; 115 Volts, 50/60Hz
Rated current/Power consumption	0.45A, 110 Watt (230 Volts); 1,2A, 140 Watt (115 Volts)	0.45A, 110 Watt (230 Volts); 1A, 110 Watt (115 Volts)
Protection class/Protection level	Protection class 1, BF, IPX 1	Protection class 1, BF, IPX 1
Dimensions/Weight		
Dimensions without mobile stand	340 x 255 x 280 mm	340 x 255 x 280 mm
Dimensions with mobile stand	1500 x 470 x 570 mm	1500 x 470 x 570 mm
Weight without mobile stand	7.4 kg	7.4 kg
Weight with mobile stand	18.4 kg	18.4 kg
Conformity	<b>CE</b> 0123	<b>CE</b> 0123
Tests/Certificates	MDD 93/42 EWG, EN 60601-1, EN 60601-1-2, EN 10079-1, ISO 13485 (2003)	MDD 93/42 EWG, EN 60601-1, EN 60601-1-2, EN 10079-1, ISO 13485 (2003)