

APOLLO[®]

Smart Convertible Retractor

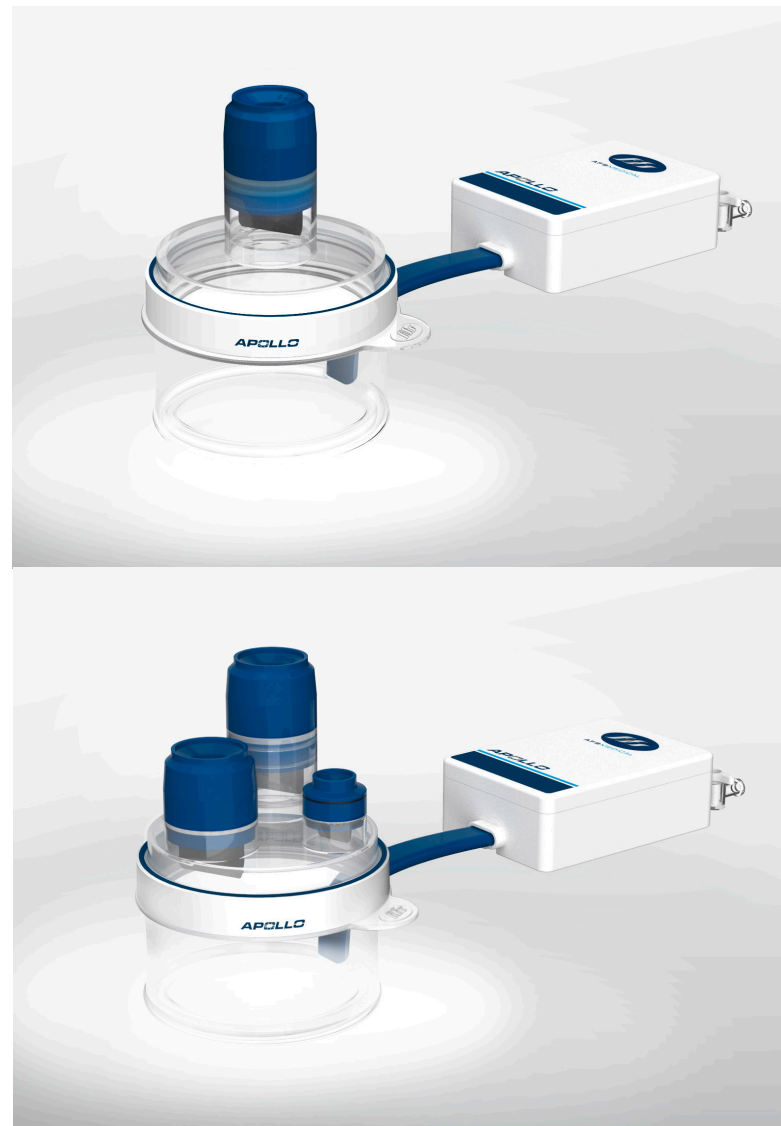
01

CONCEPT

APOLLO – smart convertible retractor is an easy-to-use medical device for minimal-invasive surgery and it can be used in general surgery, urology, gynecology, and thoracic surgery.

This unique medical device can be converted from minimal-invasive surgery to mini-laparotomy or vice versa.

APOLLO convertible provides multifunctional access into the human body with many customized features.



02

FEATURES



TRANSPARENT SILICONE

for better visibility and safe handling of laparoscopic instruments



DETACHABLE SEALING VALVES

all sealing valves can be unscrewed to enlarge the seal
after removing one sealing valve completely, the working channel enables quick and easy large specimen removal, insertion of large laparoscopic instruments such as 25 mm circular staplers and furthermore, it is compatible with large robotic trocars



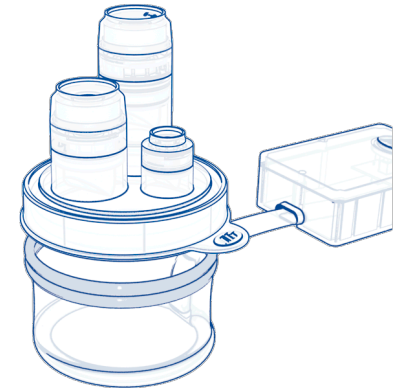
SMART TUBING

3 chamber tube for smart CO₂ management
connects the Inner Ring to the Controller Unit
prevents the optic lens from fogging up



AMBIENT LIGHT

it is an additional safety feature, it provides a better overview of the surgical field and makes the crucial difference to the convertible steps of an operation



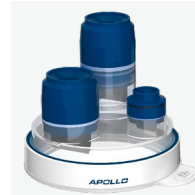
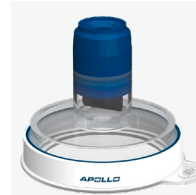


03

COMPONENTS & COMBINATIONS



&



PORT HEAD

provides a gas-tight connection to the wound protector



WOUND PROTECTOR

includes Retractor Ring, Wound Protection Film, Inner Ring and Smart Tubing; adjustable for any thickness of the abdominal wall



DETACHABLE VALVES

universal sealing system, unscrewable valves and one fully detachable valve



CONTROLLER UNIT

contains valves for smoke evacuation and CO₂ insufflation, switches for the ambient light, connector for BIOCUBE or disposable batteries



BIOCUBE

external rechargeable battery, connected to the controller unit with a single-use wire

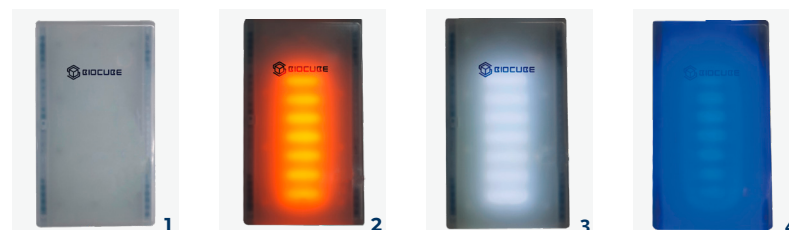
04 ENVIRONMENTAL FACTOR

Since it is unavoidable to provide you with APOLLO as a single-use device, we engaged to find a sustainable solution for an environmental-friendly power supply.

So you can operate all AFS MEDICAL products with our rechargeable BIOCUBE external battery.

BIOCUBE

- external rechargeable battery
- provides power for at least 4 hours
- fully charged in 3 hours
- smart readout through colored indication
- durability of 500 charging cycles
- compatible with all AFS MEDICAL products
- connected with a 3.5 meter long single-use wire to the controller unit



1 0% - no power

2 1-50 % - orange light

3 50-95 % - white light

4 95-100 % - blue light

05 ORDER INFORMATION

APOLLO smart convertible retractor

product code	size	working channel	incision size	retractor ring diameter	inner ring diameter	battery type	selling unit
AB1XSC1	x-small	1	up to 3 cm	9 cm	6 cm	integrated disposable batteries	4 units per box
AB1SC1	small	1	up to 5 cm	9 cm	9 cm		
AB1MC1	medium	1	up to 9 cm	12 cm	12 cm		
AB1XSC3	x-small	3	up to 3 cm	9 cm	6 cm		
AB1SC3	small	3	up to 5 cm	9 cm	9 cm		
AB1MC3	medium	3	up to 9 cm	12 cm	12 cm		
AB2XSC1	x-small	1	up to 3 cm	9 cm	6 cm	for use with BIOCUBE	4 units per box
AB2SC1	small	1	up to 5 cm	9 cm	9 cm		
AB2MC1	medium	1	up to 9 cm	12 cm	12 cm		
AB2XSC3	x-small	3	up to 3 cm	9 cm	6 cm		
AB2SC3	small	3	up to 5 cm	9 cm	9 cm		
AB2MC3	medium	3	up to 9 cm	12 cm	12 cm		

BIOCUBE external battery kit

product code	name	type	selling unit
EB01	BIOCUBE 1.0	rechargeable battery	1 unit

Manufacturer

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WE ARE REDEFINING THE WORLD OF SURGICAL ACCESS

Our thorough understanding of surgical techniques and challenges allows for smart engineering, superior product functionality and noble design combined with artificial intelligence – **innovation beyond imagination.**

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