Technowood®

HEART LUNG SYSTEM

COMPOIII Neo

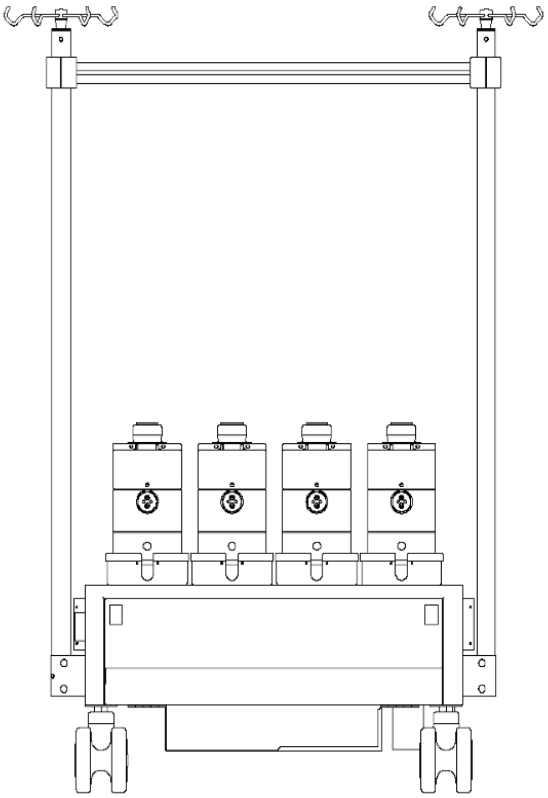
SAFE HI-TECH EASY FRIENDLY

The most COMPACT design yet

Various medical devices are installed in operation rooms. This is especially true in Hybrid ORs where imaging devices are also installed. However, not all facilities have enough space for all these equipment.

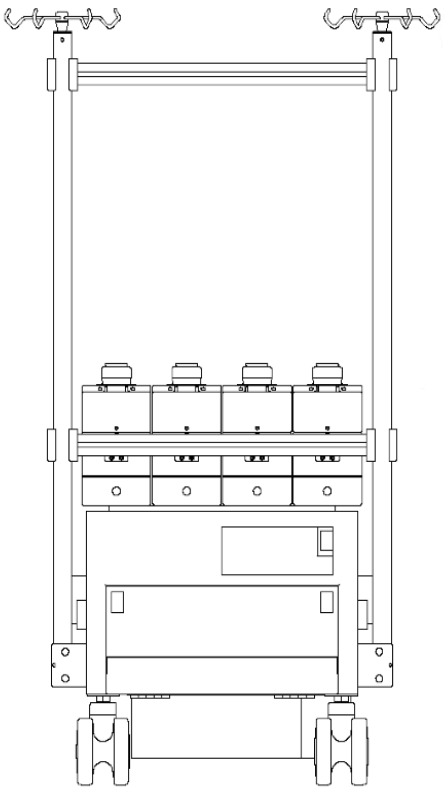
COMPO III Neo's space-efficient design allows for a greater working space for a more efficient workflow in the operating room.

4-roller system (before 2015)



780mm

2015 4-roller system



552mm

2018 4-6 roller system

449mm

*excluding mast

COMPO III Neo's compact, space-saving design has achieved a base size reduction of 331mm compared to the traditional 4-roller system.

CUSTOMIZABLE BASE

The pump base can be customized to accomodate different combinations of roller pumps, safety modules, masts, trays and other accessories for improved efficiency during procedures.

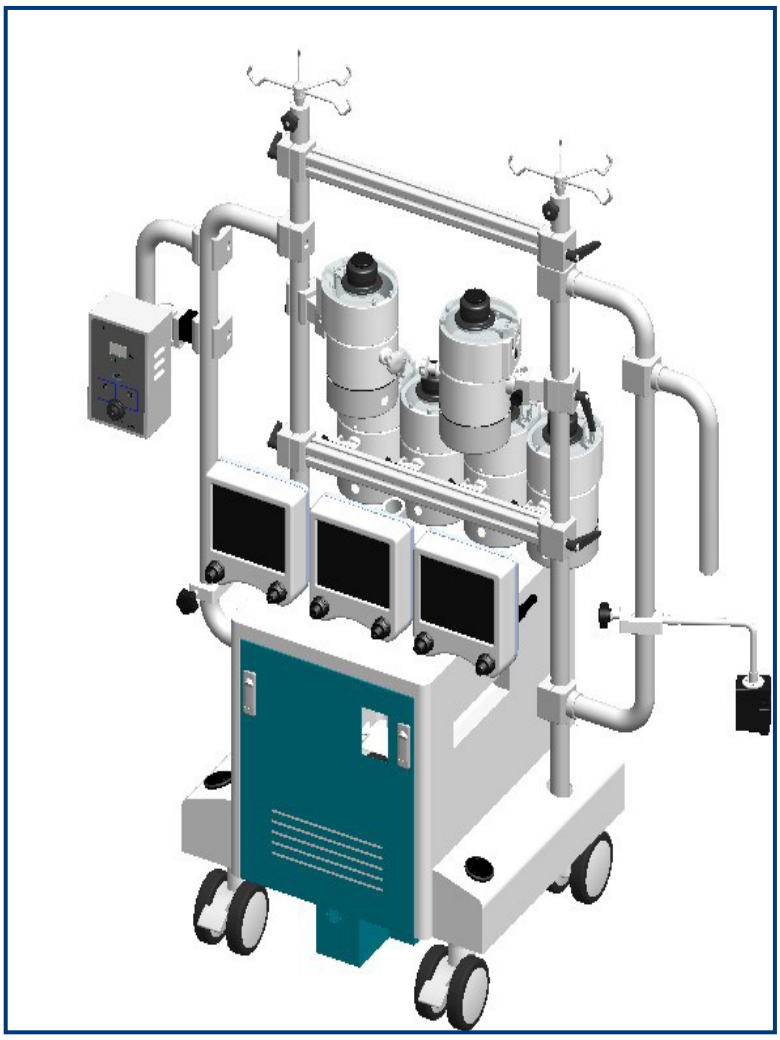
STANDARD PUMP BASE (4-6 roller pumps)	
Power	AC100V - 230V 50/60Hz
	Max: 1500VA
Dimensions	650 (W) x 595 (D) x 625 (H) mm 70kg *excluding mast
Battery life	15 minutes (6 x 120mm pumps at 150rpm)
	60 minutes (2 x 120mm pumps at 150rpm)

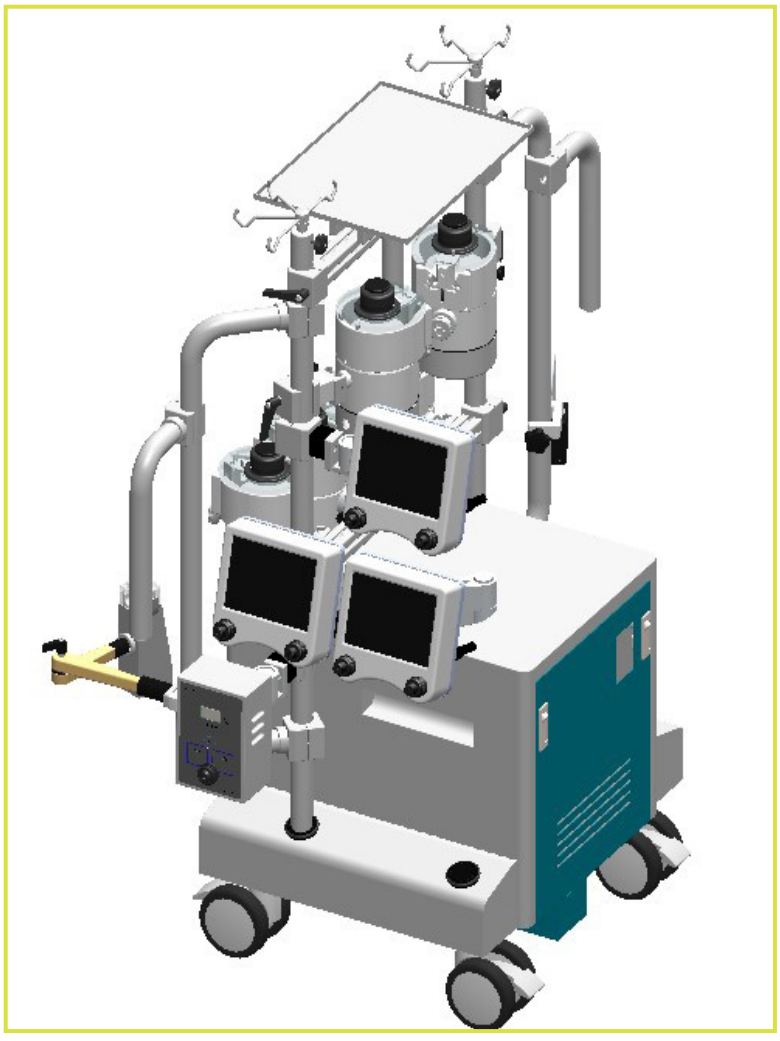
2-pump system

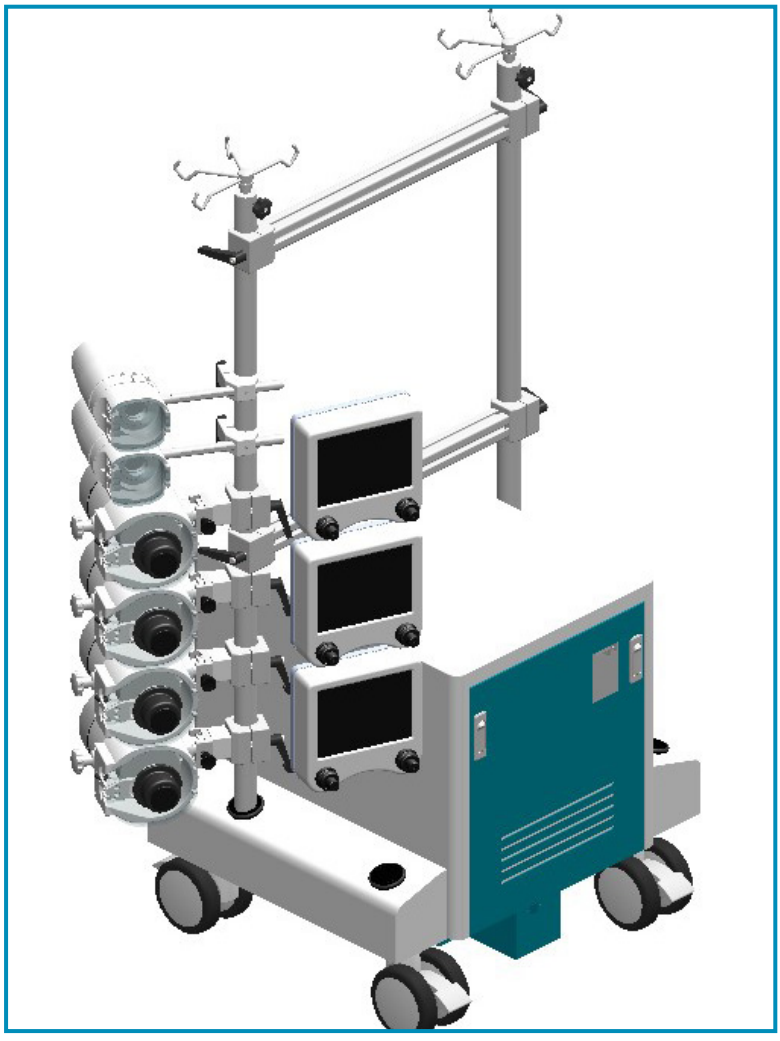
10-pump system

Flexibility, Adaptability & **CONVENIENCE**

The COMPO series is a pioneer of modular heart-lung systems. All the components can be configured to suit a large variety of clinical needs. Roller pumps can be placed closer to the surgical field to decrease priming volume resulting in reduced postoperative complications and faster patient recovery.

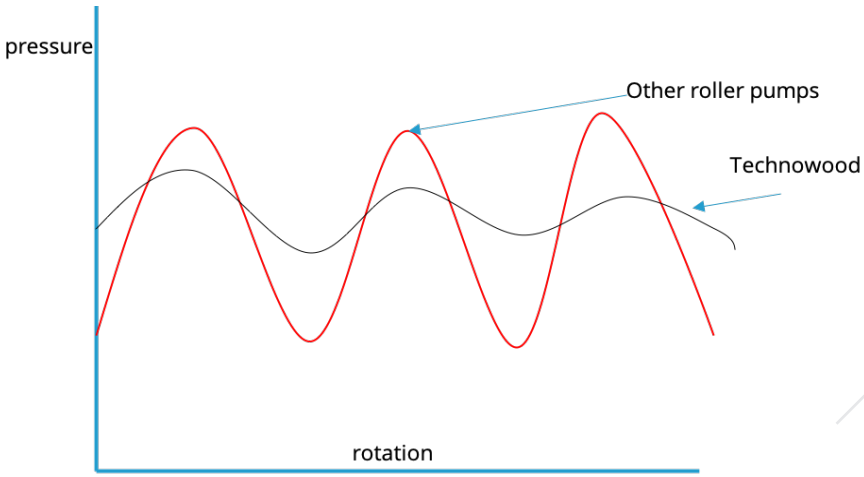


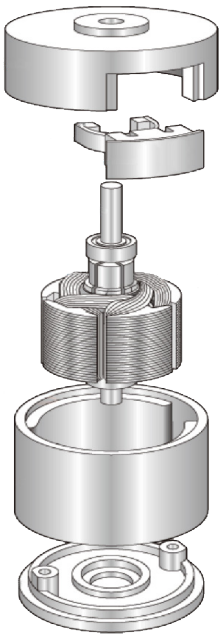




SDDΩPUMP

The Technowood-specific omega roller sleeve was designed to lower pressure peaks during one rotation cycle resulting in reduced hemolysis.

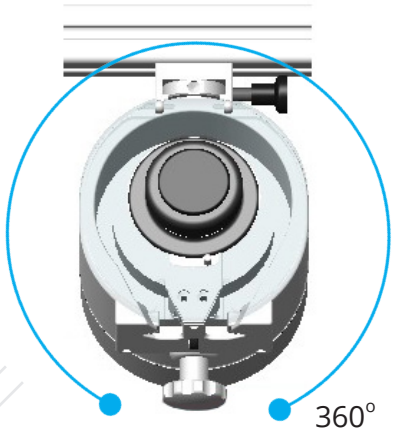


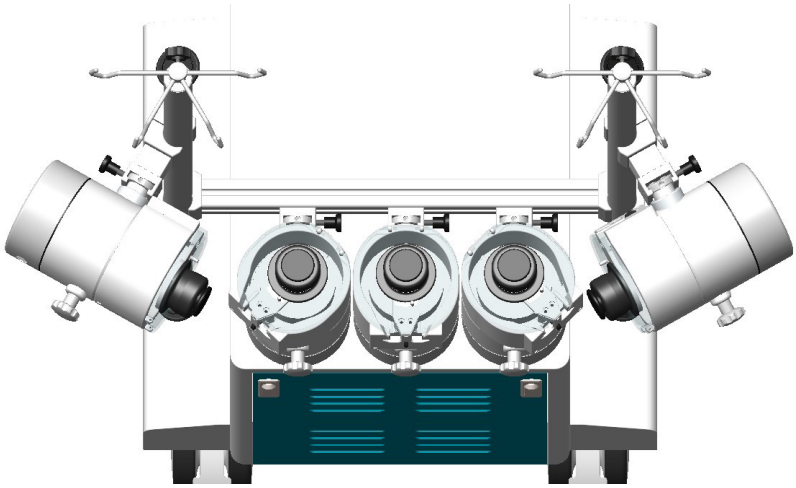


SEPARATE DIRECT DRIVE

The 150mm and 120mm roller pumps have direct drive systems which enable the rollers to produce high torque even at low rpm. The lack of moving gears means there are fewer parts prone to failure from aging or stress, as well as reduced noise during operation.

All pumps are modular - separate from the base and the control panel - for better ergonomics and work flow. The pump head itself can be rotated a full 360 degrees for better positioning relative to the surgical field.





	BP120cIII	BP150cIII	BP75cIII
Dimensions (WxDxH)	140 x 152 x 225mm	170 x 182 x 225mm	91 x 112 x 219mm
Weight	8.8kg	9.8kg	6kg
Tube sizes	5/32, 3/16, 1/4, 3/8 4 - 9.6mm	1/4, 3/8, 1/2 6.4 - 12.7mm	5/32, 3/16, 1/4 4 - 6.4mm
Pump tubing	1 or 2 tubings	1 or 2 tubings	1 tubing
Rotational speed	Max 250rpm (Pulsatile: 400rpm)		
Rotation direction	clockwise, counterclockwise		
Occlusion	one-touch occlusion	one-touch occlusion	two-touch occlusion
Motor drive system	AC servo direct drive	AC servo direct drive	AC servo gear drive

SDDΩPUMP

CONTROLLER

Improved Visibility

High-resolution touch screen with an easy-to-understand display layout.

Displays all the data the perfusionist need to know, all in one compact, user-friendly screen. Colors and names can be assigned according to the use of each pump, making it easy to distinguish between pumps.

Superior Operability

Display settings can be changed simply by touching the icons allowing for a more intuitive operation.

Enhanced Safety

The level / bubble / pressure sensor settings and status are represented by visual signals which allows the perfusionist to respond immediately given any situation.

The COMPO III Neo also supports a cardioplegia delivery-specific control panel for a safe and easy cardioplegia administration.

PUMP CONTROLLER CP4000CC	
Pump speeds	0-250rpm (pulsatile: 400rpm)
Flow (unit)	rpm, ml/min, ml/kg, l/m^2, % (2 units can be displayed simultaneously)
Status display	Pump type, Tube size, BSA, Pump name/color
	Level, bubble, pressure sensor status
	Pressure monitor for both positive and negative pressure
Pressure monitor	-200 to 800 mmHg (6 pressure ranges to choose from) 2 channel display (3 CP4000CC = Max: 6 channels) Pressure control : when pressure limit is exceeded, an alarm is triggered and pump rotation is decelerated or stopped.
Temperature monitor	2 channels: 0 to 50°C YSI-400 probe series compatible; (3 CP4000CC = Max: 6 channels)
Timer	4 channels available. Alarm set range: 1-900 mins
2 Knobs	For general and fine flow adjustment

SAFETY modules

Bubble Sensor
BS-1

When air bubbles (>0.1ml) are detected, a sound alarm is triggered and the pump automatically stops**.

**When connected to Technowood Pump Controller (CP4000CC or BPC-S)

Type	Ultrasonic detection
Performance	0.1ml and above
Tubing size	5/32×1/16～3/8×3/32 (4～10mm)
Power	Compliant with connected equipment

Level Sensor
LScIII

Operates through a two-point sensor system: S1-alert (upper limit) and S2-warning (lower limit). Fluid levels reaching the upper limit will trigger the pump to slow down to decrease the flow rate. Fluid levels reaching the lower limit will trigger an emergency pump stop**.

**When connected to Technowood Pump Controller (CP4000CC or BPC-S)

Type	Non-contact optical system
Sensor	2point system (warning & emergency stop)
Power	40VA (max)
Can be operated individually	

VenousOccluder
VOcIII

Equipped with 2 tuning knobs (fine and course) which can be used to set the tubing occlusion ratio and regulate venous return flow.

Data Box
DCBcIII

Equipped with multipurpose thermometers and timers with an alarm function.

Thermometer: 0 - 50 ° C ± 0.5
Timer: 0 - 999 min
Dimensions: 80 (D) × 160 (W) × 185 (H) mm
Weight: 2.3 kg
Power consumption: 15 VA

Pressure Sensor
PScIII Neo

The PScIII pressure sensor is an optional module to provide 2 additional pressure channels.

9 pressure ranges to choose from -200 to 800mmHg

Can be integrated with the pump controller to manage pump operation.

Technowood®

www.technowood.co.jp

JAPAN

Technowood Corporation

Tel: +81 (3) 3856-4111

Fax: +81 (3) 3856-4113

USA

Technowood America Corporation

Tel: +1 (714) 434-8713

Fax: +1 (714) 434-8715

INTERNATIONAL

Technowood International Pte. Ltd.

Tel: +81 (3) 3898-5252

Fax: +81 (3) 3898-5252

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