

*Bridge
to
Life*



Machine Perfusion Made Simple.
VitaSmart™
MACHINE PERFUSION SYSTEM

Trusted Solutions.
Advanced Technology.
Uncompromising Quality.



Reimagining the Future of Organ Transport and Preservation

The VitaSmart™ Machine Perfusion System provides clinicians with the ability to implement hypothermic oxygenated perfusion (HOPE) protocols with an easy-to-use and simple-to-setup system requiring minimal personnel to monitor perfusion progress.



Machine Perfusion Made Simple

Flexible, Easy-to-Use Hypothermic Oxygenated Perfusion System

- Ability to better organize and manage transplant timing
- Cost effective machine perfusion
- No blood or blood products needed reducing cost of perfusion
- Data download capability for patient records and research
- Does not require multiple personnel to monitor perfusion progress

One System For Both Liver and Kidney

- Maximizes system usage and return on investment
- Strong clinical evidence for oxygenated hypothermic perfusion
- Allows for both HOPE and DHOPE liver protocols
- Real-time temperature sensing and monitoring of perfusate/organ temperature

Simple Setup and Easy-to-Learn

- Designed for simplicity
- Fast learning curve with minimal training required
- Compact size
- Easy to move where it is needed within the hospital
- Easy, quick, simple to setup
- Minimal nuisance alarms and quick reset - No alarm fatigue

Clinical & Technical Support Programs

A Partnership Designed Around Your Workflow

Training does not end with an instruction manual. That's why we've developed ongoing, comprehensive support programs, designed by clinical experts and tailored to clinical needs. This collaborative effort is focused on building and improving quality and expertise for the transplant community. We provide flexible, ongoing support and training, designed to minimize disruption to the schedules of busy clinicians.



If a problem occurs with your system, our Technical Support Team can be reached quickly and easily. In addition to on-site service, our comprehensive customer-focused service agreements and extensive technical and clinical telephone support is available to address your system needs.

Technical Specifications	
Power supply	• 230 VAC (+/- 10%), 50 Hz • 115 VAC (+/- 10%), 60 Hz
Absorbed power	• 52 VA under normal use condition • 110 VA for one second when the electroprobe opens
Class	• Class 1 type BF (with regard to IEC EN 60601-1)
Operating conditions	• Temperatures from 15 °C to 35 °C • Relative humidity from 35% to 75% without condensation • Avoid direct exposure to sunlight & artificial light • Atmospheric pressure from 500 to 1060 hPa
Transport and storage conditions	• Temperatures from -10 °C to +50 °C • Relative humidity from 35% to 85% without condensation • If the transport or storage period is longer than 15 weeks, refer to the environmental operating conditions (see above)
External dimensions of the machine	• Height 360 mm • Width 370 mm • Depth 285 mm
Trolley dimensions	• Base 440 x 500 mm • Machine floor height 930 mm • Max height stand pole 1970 mm
Machine weight	• 12 kg
Trolley weight	• 21 kg
Pump 1 withdraw pressure	• From - 300 mmHg to + 200 mmHg • Resolution 10 mmHg • Accuracy ± 10 mmHg ± 3% of the current value • Priming limits +100 mmHg to -200 mmHg • Treatment limits +100 mmHg at set threshold (0 to -250 mmHg) • Emptying limit +100 mmHg to -250 mmHg • Temperature drift: 10%
Pump 2 withdraw pressure	• - 200 mmHg • Resolution 10 mmHg • Accuracy ± 10 mmHg ± 3% of the current value • Priming limits -200 mmHg • Treatment limits -200 mmHg • Emptying limit -250 mmHg • Temperature drift: 10%
Delivery pump 1 pressure (RED)	• From - 100 mmHg to + 400 mmHg • Resolution 10 mmHg • Accuracy ± 10 mmHg ± 3% of the current value • Priming limits: (absolute values) +400 mmHg at -100 mmHg • Treatment limits: (absolute values) +350 mmHg at -40 mmHg • Emptying limit: (absolute values) +350 mmHg at -40 mmHg • Temperature drift: 10%
Delivery pump 2 pressure (GREEN)	• From - 100 mmHg to + 400 mmHg • Resolution 10 mmHg • Accuracy ± 10 mmHg ± 3% of the current value • Priming limits: (absolute values) +400 mmHg at -100 mmHg • Treatment limits: (absolute values) +350 mmHg at -40 mmHg • Emptying limit: (absolute values) +350 mmHg at -40 mmHg • Temperature drift: 10%
Pump 1 flow	• Programmable from 5 mL/min to 200 mL/min • Resolution 1 mL/min • Activation of acoustic and visual alarm for pump stop of over 1 minute
Pump 2 flow	• Programmable from 5 mL/min to 200 mL/min • Resolution 1 mL/min
Accuracy of pump flows	• Pump 1 and infusion: +/-10% for variability of the pump section with inlet and delivery pressures between - 300 and + 600 mmHg
Pump 1 segment	• PVC external Ø 7.95 mm internal Ø 4.77 mm
Pump 2 segment	• PVC external Ø 6.8 mm internal Ø 4.3 mm
Display	• 5.7" backlit color graphics
Air sensor	• Ultrasonic system with alarm threshold for bubbles > 100 microliters at maximum capacity of Pump 1
Maximum pressure of the circuit	• 600 mmHg (measured before the filter)
Acoustic signal	• Sound level acoustic alarm: 65 dB at 1m (operator distance in the normal use of the system)
Alarm mute time (AUDIO PAUSED)	• 1 minute (see alarm section)
Accessories	
Code	Description
KOPO3K	• KIT FOR PERFUSION OF THE KIDNEY TO BE TRANSPLANTED
KOPO3L	• KIT FOR PERFUSION OF THE PORTAL VEIN OF THE LIVER
KOPO3L2	• KIT FOR PERFUSION OF THE PORTAL VEIN AND HEPATIC ARTERY OF THE LIVER
EU5054	• OXYGENATOR
EU5054	• OXYGENATOR

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VitaSmart™ is available in all countries accepting the CE mark. Pending clinical evaluation and regulatory clearance in all other countries.