

VETsmart is a system designed to provide blood purification treatments to small and medium-sized animals, such as cats and dogs, in cases of acute renal failure, poisoning or intoxication

VETsmart provides the following treatments:

- SCUF (Slow Continuous Ultrafiltration)
- CVVHD (Continuous Veno-Venous Dialysis)
- CVVH (Continuous Veno-Venous Hemofiltration)
- PEX (Plasmaexchange)
- HP (Hemoperfusion)

VETsmart tube sets have been optimized to keep the priming volume of blood as low as possible.

A full range of VETsmart disposable kits are available with various types and sizes of filters suitable for all therapies.



LINE KIT FOR VETSMART DEVICE

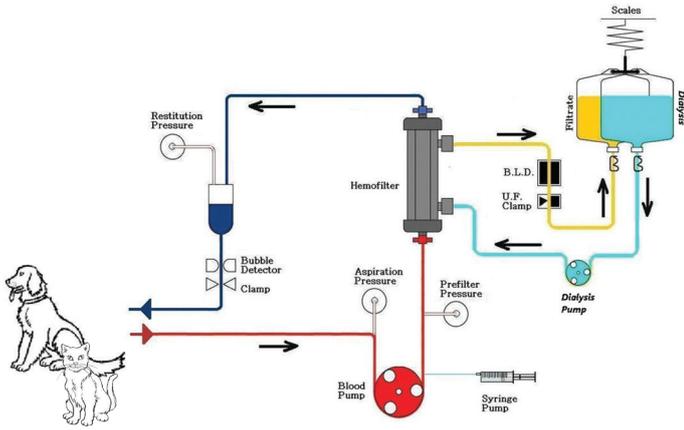
CODE	DESCRIPTION	FILTER TYPE	FILTER MODEL	FILTER SQUARE FOOTAGE	WASHING VOLUME (40 ml line + filter)	FILTER PRIMING VOLUME	APPROXIMATE PATIENT WEIGHT RANGE (KG)
M03952	KIT 050 FOR VETSMART	Hemofilter	D050 ⁽¹⁾	0,075 m2	45 ml	5 ml	0,5 – 0,9
M03953	KIT 100 FOR VETSMART		D100 ⁽¹⁾	0,15 m2	50 ml	10 ml	1,0 – 3,9
M03954	KIT 150 FOR VETSMART		D150 ⁽¹⁾	0,25 m2	59 ml	19 ml	4,0 – 5,5
M03955	KIT 200 FOR VETSMART		DP03HE ⁽²⁾	0,30 m2	61 ml	21 ml	5,6 – 11,5
M90239	KIT 700 FOR VETSMART		DP07HE ⁽²⁾	0,70 m2	89 ml	49 ml	11,6 – 31,9
M90240	KIT 1200 FOR VETSMART		DP120HE ⁽²⁾	1,2 m2	109 ml	69 ml	32,0 – 45,0
M90036	KIT PEX 50 VETSMART	Plasmafilter ⁽³⁾	Plasmart 50	0,05 m2	43,9 ml	3,9 ml	0,5 – 2,9
M90037	KIT PEX 100 VETSMART		Plasmart 100	0,1 m2	48,6 ml	8,6 ml	3,0 – 5,9
M90086	KIT PEX 200 VETSMART		Plasmart 200	0,2 m2	53,2 ml	13,2 ml	6,0 – 14,9
M90238	KIT PEX 400 VETSMART		Plasmart 400	0,4 m2	70,5 ml	30,5 ml	15,0 – 40,0
M90305	HEMOPERFUSION LINE FOR VETSMART				44 ml		

(1) MediSulfone® membrane (Polysulfone)

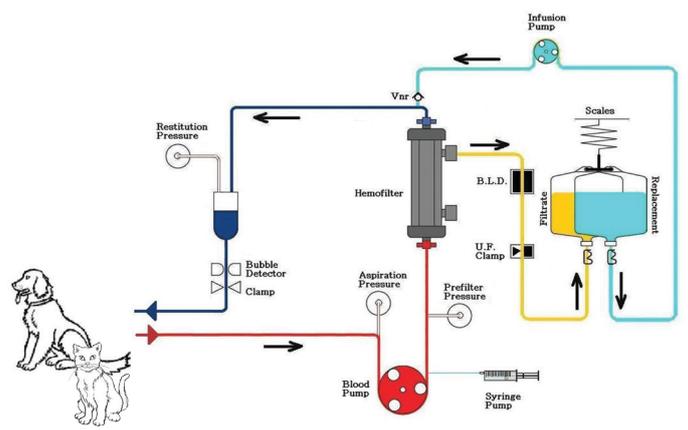
(2) High - flux PUREMA® membrane (Polyethersulfone)

(3) Plasmart membrane in VERSATILE PES® (Polyethersulfone)

Available Treatments



Continuous Veno-Venous Dialysis



Continuous Veno-Venous Hemofiltration PEX

TECHNICAL DATA	
Electrical power supply	230V (+/-10%), 50Hz - 115V (+/-10%), 60Hz
Power absorption	75 VA under normal operating conditions. 135 VA for one second at the opening of the venous electroclamp.
Class	Class 1 Type BF IEC EN 60601-1
External machine measurements	Height 360 mm - Width 370 mm - Depth 285 mm
Trolley measurements	Base 440x500 mm - Machine level 930 mm - Max IV pole height 1970 mm
Machine and trolley weight	12 Kg - 21 Kg
Venous and pre-filter pressure	From -100 mmHg to +400 mmHg. Resolution 5 mmHg. Accuracy 20 mmHg 3% of the actual value.
Blood pump flow	Programmable from 2 ml/min to 250 ml/min. Resolution 1ml/min. Sound alarm in case of a 2-minute stop.
Ultrafiltration flow	Programmable from 0 ml/min to 9000 ml/h
Dialysate flow	1200 mL/h - 7200 mL/h
Dialysis session duration	1h - 12h
Weight loss in dialysis	0-500 g
Pump flow accuracy	± 10% with inlet and outlet pressures between -300 and +600 mmHg.
Anticoagulant pump	Programmable in Bolus (bolus volume from 0,1 to 3 ml) and Continuous mode (heparin flow from 0 to 20 ml/h). Use 30cc syringe included in the tubing set.
Scales	0-6,5 Kg. Accuracy 1% of the nominal value.
Display	4.7-inch backlit color graphic display.
Air sensor	Ultrasound with alarm threshold for bubbles >10µl at maximum rated blood pump flow.
BLD	Optical, with alarm threshold for 0.1 ml of blood in 10 ml of ultrafiltrate (hematocrit: 25%). Accuracy: 0.2%.
VETsmart Code (230V,50 Hz): M03993	

MediSulfone® is a registered trademark of Medica SpA

PUREMA® is a registered trademark of Membrana GmbH

Versatile®-PES is a registered trademark of MEDICA SpA

HEMOFILTERS TECHNICAL DATA	D050	D100	D150	DP03HE	DP07HE	DP120HE
Area (m ²)	0,075	0,15	0,25	0,3	0,7	1,2
Inner diameter (µm)	250	250	250	200	200	200
Wall thickness (µm)	50	50	50	30	30	30
Priming volume (ml)	5	10	19	21	49	69
Maximum TMP (mmHg)	500	500	500	600	600	600
Cartridge blood connectors	MLL	Tube Site	Twist	Twist	Twist	Twist
Cartridge filtrate connectors	FLL	Tube Site	FLL	FLL	FLL	H
KUF ml/h/mmHg	1,3	3,0	5,5	14	32	55
Hollow fiber material	MediSulfone®		PUREMA®			
Sterilization method	ETO					

PLASMAFILTERS TECHNICAL DATA	PLASMART 50	PLASMART 100	PLASMART 200	PLASMART 400
Membrane area (m ²)	0,05	0,1	0,2	0,4
Fiber inner diameter (µm)	300	300	300	300
Fiber wall thickness (µm)	85	85	85	85
Priming volume (ml)	3,9	8,6	13,2	30,5
Maximum TMP (mmHg) *	100	100	100	100
Maximum blood flow (ml/min)	50	80	100	160
Plasma flow (% of the blood flow)	20-30%**	20-30%**	20-30%**	20-30%**
Cartridge blood connectors	LLM	Twist lock	Twist lock	Twist lock
Cartridge filtrate connectors	FLL	FLL	FLL	FLL
Hollow fiber material	Versatile®-PES			
Sterilization method	ETO			

* Tested with bovine blood 35% Hct, 60g/l total protein.

** TMP values above 60 mmHg could cause hemolysis.

MANUFACTURER

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UNI EN ISO 9001:2015
UNI CEI EN ISO 13485:2021

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