



# Specifications

Items	Specifications		
Product name	Olympus Suction Pump KV-5		
Classification (electromedical equipment)	Standards compliance	Complies with EN ISO 10079-1 and EN IEC 60601-1 (220-240V model)	
	Electro-magnetic compatibility	This product complies with the requirements of EN IEC 60601-1-2 for emissions and immunity, and as such, its operation is unlikely to be affected by, or cause interference with, equipment meeting appropriate EMC standards. As a precaution, equipment which may be sensitive to interference outside the limits specified by EN IEC 60601-1-2 should not be placed in close proximity to the KV-5.	
	Type of protection against electrical shock	Classification according to EN IEC 60601-1: Class 1 with Type BF applied part.	
	Degree of protection against electrical shock	In accordance with EN IEC 60601-1, the KV-5 is marked with the symbol  to indicate the provision of an adequate degree of protection against electrical shock and that it has an applied part isolated from all other parts of the equipment.	
	Degree of protection against explosion	None: the Olympus KV-5 must NOT be used in the zone of risk of flammable anaesthetic gases.	
	Mode of operation	Continuous	
Regulatory status	European Economic Area (EEA)	 CE This mark on the product (220-240V model) indicates compliance with Directive 93/42/EEC relating to medical devices, Class IIa. The year of manufacture is given in the first two digits of the serial number.	
Dimensions and weight	Dimensions	Height: 220mm Width: 255mm Depth: 310mm	
	Weight	12.7kg	
Power switch	Marking	The power switch is marked: <b>I</b> - on, <b>O</b> - off	
Power requirements	<b>Power supply</b> 220-240V~  <b>Marking:</b> The mark ~ on the product indicates the requirement for an AC power supply	<b>Frequency</b> 50/60 Hz	<b>Fusing</b> 2 x T1.25H  <b>Power rating</b> 130VA
Environmental conditions	Ambient Temperature	Operational:	+10°C to +40°C (+50°F to +104°F)
		Storage:	- 40°C to +70°C (- 40°F to +158°F)
	Relative humidity	Maximum:	95% at 40°C relative non-condensing
	Atmospheric pressure	Operational:	70 to 106 kPa
		Storage:	23.5 to 106 kPa
Fluid Ingress	In accordance with EN IEC 60601-1, the product is marked IPX1 to indicate that it is provided with an enclosure that prevents entry of such an amount of falling liquid as might interfere with its safe and satisfactory operation when correctly positioned.		
Resistance to chemicals	The external surfaces of the Olympus KV-5 are resistant to: 2% aqueous neutral detergent, 70% ethyl alcohol, isopropyl alcohol, water.		
Pump specification	Nominal vacuum: 85 kPa Nominal free air flow rate: 20 l/min In accordance with ISO 10079-1, the unit is marked with the words 'HIGH VACUUM, HIGH FLOW' to indicate it has a vacuum of at least 60 kPa in 10 seconds and a free air flow rate of 20l/min or greater.		
Thermal cut-out	A thermal cut-out is contained within the windings of the pump motor set to operate if the temperature of the windings exceeds 125°C (257°F).		
Single use suction liner	To prevent fluid from being drawn up to the pump the single use suction liner contains a mechanism to shut off the flow when the liner is overfilled. This mechanism is activated when contact is made with aspirated fluid.		
Suction jar	The suction jars are manufactured from polysulfone, allowing it to be autoclaved up to 137°C. The jar is impact resistant.		
Suction jar lid	The suction jar lid clips and where applicable the float mechanism, are autoclavable up to 137°C. The inlet connection (from the endoscope) is marked with the word PATIENT, the outlet connection (to the filter) is marked with the word VACUUM. An optional lid is available having an integral float mechanism for use without single-use suction liners.		
Suction tubing	The filter tubing supplied is silicone rubber, 6.0mm internal diameter, 12.0mm external diameter. The sterile patient tubing supplied is PVC, 6.0mm internal diameter, 8.0mm external diameter. Use only tubing with the specified dimensions, otherwise equipment malfunction may result.  The patient tube connects to a barbed connector on the suction jar cap and the filter tube has a removable 90° connector which is a push-fit into the suction jar cap.		
Vacuum gauge	Range: 0 to 100 kPa	Accuracy: ±2.5%	

Olympus is continually developing its product range and reserves the right to alter the above specification without notice.  
The Olympus KV-5 is manufactured in the UK by KeyMed (Medical & Industrial Equipment) Ltd.


Specification and design are subject to change without any obligation on the part of the manufacturer.

Incorporating the option of either a disposable or reusable system




# KV-5 Options

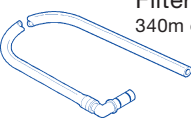






2m Patient tube  
(sterile packed – PK 50)




Microbial Filter  
(sterile packed – PK 10)



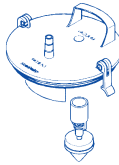
Filter tube  
340m or 900 mm (PK 10)




Bracket for mounting jar on trolley

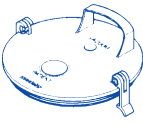



1 litre jar






2 litre jar





1 litre liner + solidifier  
(PK 30)



2 litre liner + solidifier  
(PK 25)



# KV-5 Options suction pump with single-use or reusable system options

A new addition to the Olympus range of ancillary support products, the KV-5 suction pump is designed for endoscopic aspiration and can also be used in the operating theatre for non-endoscopic applications.



It is ideal for use either mounted on a procedure trolley or as a stand-alone unit. The variable suction control allows adjustment to meet individual requirements.

A high performance pump and motor combination ensure that the unit is 'whisper quiet' for any working environment.

The KV-5 may be adapted to suit individual requirements by the use of optional components, to allow a single-use or reusable suction system.

The single-use liners are conveniently supplied with solidifier for safe and simple use and disposal.



## Features

- Designed for endoscopic and surgical suction
- Whisper quiet operation
- Variable suction
- Compact design
- Simple and easy to operate with clearly labelled controls
- Trolley mountable
- May be used with 1 or 2 litre autoclavable jars
- Option to use single-use or re-usable systems
- Suction jar can be mounted on Olympus workstations
- Incorporates hydrophobic microbial filter