




### ► DESCRIPTION

Portable starter kit was specially developed for beginners in studying processes of manufacturing products from polymer composite materials. It includes all necessary materials (consumable products), resin, carbon and fiberglass, mobile vacuum system, as well as personal protective equipment.

This kit provides excellent mobility in schools, technical study groups or the presentations.

Vacuum system is placed on mobile lightweight aluminum platform as single phase powered. Lightweight and simple unit can be used in training sessions by schoolchildren and students who do not have specific technical skills, when studying different composite manufacturing processes, like vacuum resin infusion, double bag infusion, RTM light and as well for vacuum debulking operations.

### ► COMPLETE SET:

Product	Image	Description	Unit measure	Quantity
SK2VF170-1		Nylon vacuum film, pink, T=120-180°C, elongation 380%, 50µm x 1,50m x 5m, sheeting	m <sup>2</sup>	7,5
SK2ST120-3		Sealant tape, gray, T=120°C, 3mm*12mm*15m	m	90
SK2PP170-1		Polyamide peel ply, white with red stripers, T=190°C, 85g/m <sup>2</sup> , 1,52m*3,3m	m <sup>2</sup>	5





SK2RIM115-1		Resin distribution mesh, yellow, Max. T=125°C, 165g/m <sup>2</sup> , 1,7mm*1250mm*2m	m <sup>2</sup>	2,5
SK2AT60-1		Double coated adhesive tape, white, T=60°C, adhesive type: rubber, Carrier type: cloth, 271 µm *25mm*33m	rolls	1
SK2RIM90-1		Spiral wrap, translucent, PE, max.T=120°C, inner Ø=10mm, outer Ø=12mm	m	20
SK2RIM90-2		Tube, white, PE, T=120°C, inner. Ø=10mm, outer Ø=12mm	m	20
SK2RIM90-3		L-fitting, PP, white, T=120°C, 10mm*10mm	pcs.	10
SK2RIM90-4		T-Fitting, PP, white, T=120°C, 10mm*10mm*10mm	pcs.	10


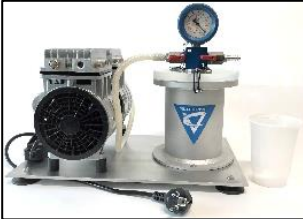







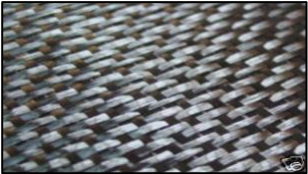



# TECHNICAL DATA SHEET

## SK1MOV-KITMINI

Portable starter kit for educating organizations

AIRVIK-9		Spray adhesive - temporary adhesive for positioning fiberglass and carbon fabrics - manufacture of polyester resin, vinyl-ester and epoxy, 500ml	pcs.	1
SK3ROL-1		Hand roller for prepreg and sealant tape	pcs.	2
SK3CUT-5S25		Sturdy scissors for cutting technical materials, 25cm	pcs.	1
SK3SPA-1WH		Paddle is used to facilitate the laying up of prepreg, layers of reinforcing and auxiliary materials, white	pcs.	5

SK2RIM000-1RC		Clamp for resin feed line , steel (W*L) 8cm*20cm	pcs.	2
SK1MOVAC-MINI		Portable mobile vacuum system, pump 40 l/min, trap 1,7л, 1 clamping fitting for tube with inner. Ø12mm	pcs.	1
Gloves		Cotton-coated latex gloves (size L), 1 pair per pack	pcs.	10
Респиратор		Spray mask FFP1 up to ambient air standard 4	pcs.	10
Protective overalls		Single-use, with a hood, white Klever (size XL)	pcs.	5
Safety glass		Open, multipurpose, Rome P1 Lucerne, transparent	pcs.	5

Fibreglass		0,28 mm, 290+-25 g/M <sup>2</sup> , plain structure	m <sup>2</sup>	4
Carbon fiber		Carbon fiber 240g/M <sup>3</sup> , 3K, Width 1,25m	m <sup>2</sup>	2
Epoxy resin		Two-component epoxy resin for infusion at room temperature + Q	kg	5
SK2TR450-12		Semi-permanent solution based release agent, can of 0,5 l	pcs.	1
SK2TR150-1		Wax based release agent, can 0,5 l	pcs.	1



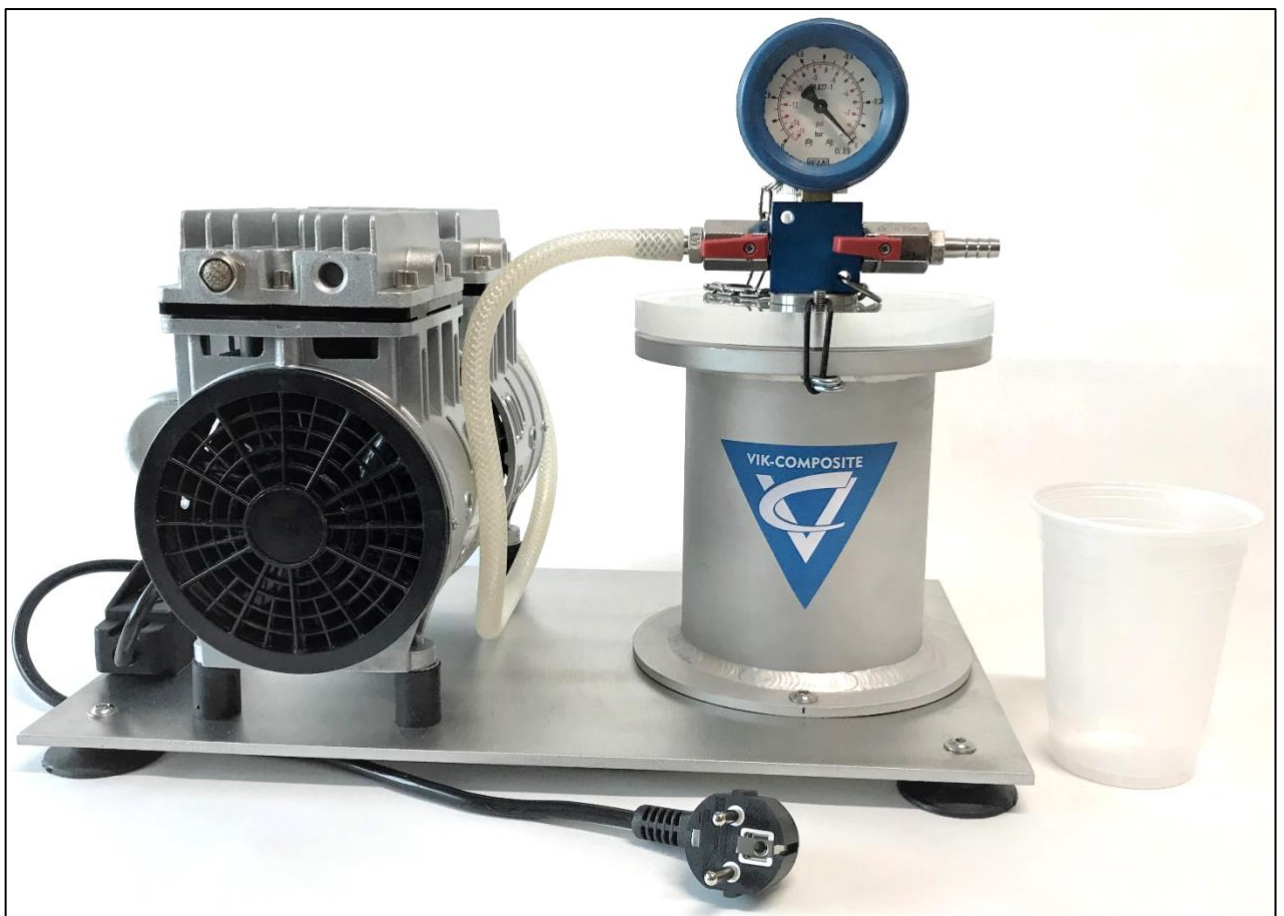
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The vacuum system is designed and developed subject to safety requirements and manufactured taking into account its use by a group of students under the supervision of a supervisor. It is possible to connect several vacuum traps in series.

A disposable plastic or paper cup is placed inside the trap, which, if the resin splashes into the trap,



collects excess, keeping the trap clean and can easily be replaced with a new one at the end of the process.

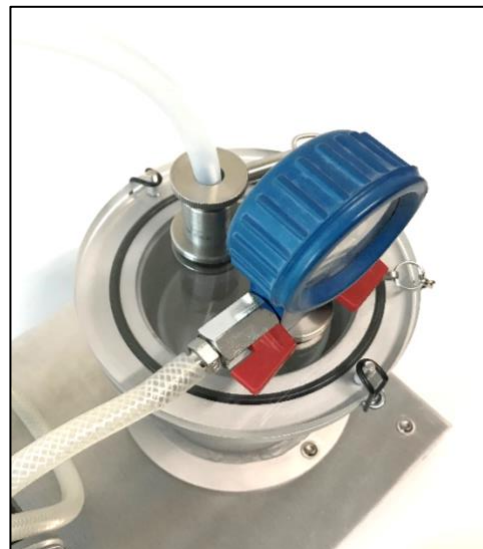


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To the left of the vacuum pump there is a switch that has a button that identifies the connection to a current source.



The trap is connected to the vacuum bag using the clamping fitting located on the transparent cover on the trap. This fitting is specially designed by VIK-COMPOSITE to prevent contamination by contact with the resin.

This solution makes the use of the system safe and ergonomic. At the end of the process, the pressure fitting is untwisted and the disposable tube is removed.

### ► TECHNICAL SPECIFICATIONS AND ADVANTAGES:

Components	Description
Portable system	Light aluminum plate 260mm x 420mm x 5mm (W x L x H). Equipped with 1 vacuum pump и 1 vacuum trap. Rubber suction cups stably attach the vacuum system to the table surface.
Vacuum pumps	E400 A2 single phase 50 Hz: productivity 40 l / min and 18mbar



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Vacuum level	Adjustable with ball valve, approximately 0% vacuum to the pump's maximum vacuum, as follows E400 A2 - 18 mbar (730 mmHg), vacuum
Vacuum gauges	Range: 0 - (-1) bar Graduations: -0,05 bar Accuracy: +/-2,5%
Vacuum trap	System equipped with resin trap series: SK3VAC-MINI with volume 1,7 l. Each tank is equipped with: <ul style="list-style-type: none"><li>- Paper/ plastic cup with volume 300 ml for resin trapping, aimed at preventing the tank from contamination;</li><li>- Vacuum gauge;</li><li>- Valve for manual flow control;</li><li>- 1 clamping fitting for the tube with external diameter 12mm to connect resin channels. (Fittings for tubes 6, 8, 10 mm are available on special order).</li></ul>

### ► NOTE

Please contact us for more detailed information as well as for system development according to your technical specification.

Standard warranty period: 12 months.