

DATASHEET

CIJECT⁰



KEY FEATURES

- Available with mixed ratios to suit polyester/vinylester, epoxy and phenolic systems.
- Designed for use with RTM, VRTM and Resin Infusion processes.
- Simple and reliable operator control.
- Purpose designed A and B component piston pumps. Highly reliable and easy to maintain.
- Fixed automatic injection mix-head.
- Unique A and B component monitoring system.
- Manually adjustable injection speed with digital pump count readout.
- Pre-settable pump counter with auto-stop.
- Flush alarm which provides timed audible warning after injection.
- Service interval alarm.
- Lockable settings.

MACHINE RESIN SYSTEMS

CIJECT 0 versions for use with phenolic materials available on request.

All versions include corresponding spares kit.

Standard Options	Description	Product Number
Polyester Version	Suitable for typical polyester and vinylester resin systems.	XE-0000-01 + SK
Epoxy Version	Suitable for typical epoxy 2:1 resin systems.	XE-0000-02 + SK
Polyester High Viscosity Version	Suitable for typical polyester and vinylester resin systems. Includes a ball-valve injection mix-head and optimised resin hoses to accommodate higher viscosity resin systems.	XE-0000-01-06-07 + SK
Epoxy High Viscosity Version	Suitable for typical epoxy 2:1 resin systems. Includes a ball-valve injection mix-head and optimised resin hoses to accommodate higher viscosity resin systems.	XE-0000-02-06-07 + SK

MACHINE UPGRADES

Standard Options	Description	Product Number
Drum Trolley	Stainless steel drum trolley to hold material barrels up to 200 litres.	XE-0000-OPT-08

MACHINE ANCILLARIES/RELATED PRODUCTS

Related Products	Description	Product Number
IBC Connection Kit: A Component	Suitable for typical polyester and vinylester resin systems.	XA-1094
IBC Connection Kit: B Component	Suitable for typical epoxy 2:1 resin systems.	XA-1094-01
Barrel Heater	240V flexible jacket to heat 200 litre material barrels to a maximum of 80 °C.	XA-1097
Injection Valve	Connects CIJECT equipment to a typical closed mould, ensuring reliable and clean operation. See datasheet for more information. Includes spares kit. - include a brief description.	XE-0015-01-
Flush Waste Tank	25 litre tank. - include brief description.	XE-0030

TECHNICAL SPECIFICATION

General	
Product Dimensions	L: 0.73 x W: 0.63 x H: 1.22 m
Product Weight	60 kg
Maximum Shipping Weight	100 kg *dependent on shipping options
Nominal Service	1 calendar year
Design Life	10 years
Mechanical	
Injection Pressure Setting Range	-0.9 to +8 bar (G)
Pre-set Injection Volume	0.1 - 1000 L or continuously
Injection Rate	0.1 - 8 L/min *dependent on material viscosity
Material Viscosity Range	Up to 5000 cPs *for material viscosity above 5000 cPs contact CI
Ratio Ranges	Polyester: 100% : 0.5% to 100% : 4% / Epoxy: 100% : 12.5% to 100% : 50%
Control	
Pressure	Simple ON/OFF pressure control
Pressure Sensor Type	-1 to +19 bar (G)
Machine Parameters	Programmable injection quantities and speeds
Safety & Monitoring	
B Component Monitoring	Detects low pressure
Stall Alarm	Adjustable audible alarm
Gel Alarm	Adjustable alarm to alert when flushing is required
Power Requirements	
Electrical Supply	110 - 230 V AC, 50/60 Hz, 1A
Supply Fusing Required	3A (BS1362, IEC 269-3A)
Internal Fuses	3.15A, 20 mm cartridges
Air Supply Standard	8 bar 600 L/min - dry, non-lubricated
Air Supply Limits	6 - 8 bar
Operating Conditions	
Maximum Resin System Temperature	50°C.
Operating Temperature	0 - 45°C.
Storage Temperature	0 - 60°C.
Humidity	20 - 75% non-condensing
Noise Output	< 70 dB