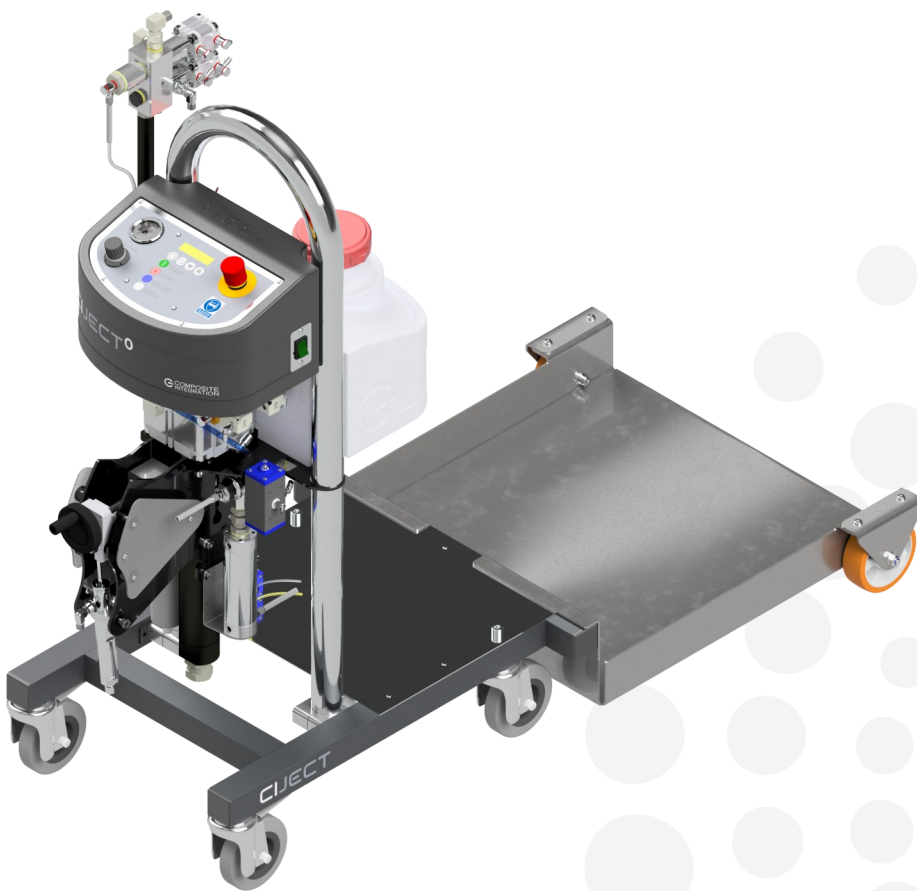


## DATASHEET

# CIJECT<sup>0</sup>



## KEY FEATURES

- Designed for use with RTM, VRTM and Resin Infusion processes.
- Available with mixed ratios to suit polyester/vinylester, epoxy and phenolic systems.
- Simple and reliable operator control.
- Purpose built A and B component piston pumps, highly reliable and easy to maintain.
- Automatic mix-head fixed on the machine.
- Manually adjustable injection speed with digital pump count readout.
- Pre-settable pump counter with auto-stop.
- 'Flush' alarm which provides timed audible warning after the injection process.
- Service interval alarm.
- Lockable settings.

## MACHINE RESIN SYSTEMS

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

All versions include a corresponding spares kit.

| Standard Options                        | Description                                                                                                                                                          | Product Number        |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| <b>Polyester Version</b>                | Suitable for typical polyester and vinylester resin systems.                                                                                                         | XE-0000-01 + SK       |
| <b>Epoxy Version</b>                    | Suitable for typical 2:1 epoxy systems.                                                                                                                              | XE-0000-02 + SK       |
| <b>Polyester High Viscosity Version</b> | Suitable for typical polyester and vinylester resin systems. Includes a ball valve mix-head and optimised resin hoses to accommodate higher viscosity resin systems. | XE-0000-01-05-06 + SK |
| <b>Epoxy High Viscosity Version</b>     | Suitable for typical epoxy 2:1 resin systems. Includes a ball valve mix-head and optimised resin hoses to accommodate higher viscosity resin systems.                | XE-0000-02-05-06 + SK |

## MACHINE UPGRADES

| Standard Options    | Description                                                             | Product Number |
|---------------------|-------------------------------------------------------------------------|----------------|
| <b>Drum Trolley</b> | Stainless steel drum trolley to hold material barrels up to 200 litres. | XE-1000-OPT-08 |

## MACHINE ANCILLARIES/RELATED PRODUCTS

| Standard Options                       | Description                                                                                           | Product Number |
|----------------------------------------|-------------------------------------------------------------------------------------------------------|----------------|
| <b>IBC Connection Kit: A Component</b> | Suitable for typical polyester/vinylester resin systems.                                              | XA-1094        |
| <b>IBC Connection Kit: B Component</b> | Suitable for typical epoxy 2:1 resin systems.                                                         | XA-1094-01     |
| <b>Barrel Heater</b>                   | 240V flexible jacket to heat 200 litre material barrels to a maximum of 80°C.                         | XA-1097        |
| <b>Injection Valve</b>                 | Connects CIJECT equipment to a typical closed mould, ensuring reliable and clean operation.           | XE-0015-01-    |
| <b>Flush Waste Tank</b>                | 25 litre tank for the secure collection of waste material from your injection valve flush waste line. | XE-0030        |

## TECHNICAL SPECIFICATION

| General                        |                                              |
|--------------------------------|----------------------------------------------|
| <b>Product Dimensions</b>      | L: 0.73 m x W: 0.63 m x H: 1.22 m            |
| <b>Product Weight</b>          | 60 kg                                        |
| <b>Maximum Shipping Weight</b> | 100 kg <b>*dependent on shipping options</b> |
| <b>Nominal Service Period</b>  | 1 calendar year                              |
| <b>Design Life</b>             | 10 years                                     |

## TECHNICAL SPECIFICATION (continued)

| Mechanical                       |                                                                                         |
|----------------------------------|-----------------------------------------------------------------------------------------|
| Injection Pressure Setting Range | -0.9 to +8 bar (gauge)                                                                  |
| Pre-Set Injection Volume         | 0.1 — 1,000 L or continuously                                                           |
| Injection Rate                   | 0.1 — 8 L/min <b>*dependent on material viscosity</b>                                   |
| Material Viscosity Range         | Up to 5,000 cPs <b>*for material viscosity above this contact Composite Integration</b> |
| Ratio Ranges                     | <b>Polyester:</b> 100:0.5 to 100:4<br><b>Epoxy:</b> 100:12.5 to 100:50                  |

| Control              |                                                              |
|----------------------|--------------------------------------------------------------|
| Pressure             | Simple ON/OFF pressure control                               |
| Pressure Sensor Type | -1 to +19 bar (gauge)                                        |
| Machine Parameters   | Programmable injection quantities and manual injection speed |

| Safety & Monitoring |                                                     |
|---------------------|-----------------------------------------------------|
| Stall Alarm         | Adjustable audible alarm                            |
| Gel Alarm           | Adjustable alarm to alert when flushing is required |

| Power Requirements     |                                       |
|------------------------|---------------------------------------|
| Electrical Supply      | 110 — 230V 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 Material Temperature | 50°C                    |
| Operating Temperature        | 0 — 45°C                |
| Storage Temperature          | 0 — 60°C                |
| Humidity                     | 20 — 75% non-condensing |
| Noise Output                 | < 70 dB                 |