



E-System

High pressure three components dosing unit for Epoxy resin

The "E-System" model is an extremely compact and rational high pressure dosing unit, specifically designed for ESTRIM (Epoxy Structural Reaction Injection Moulding), a process based on the right mix of technologies able to achieve short cycle times and automated production of Composites.

Cannon "E-System" machines can be used in place of RTM process with the following characteristics:

- Metering, mixing and injection of a properly formulated family of liquid Epoxy components in a closed mould, reducing the demoulding times from 20-30 minutes (RTM) to 2-3 minutes
- Closed-loop controlled metering system which guarantees optimum repeatability of the dispensed weight from shot to shot avoiding overfilling of the moulds
- Self-cleaning mixing technology



Mixing Heads

The "E-System" dosing machines are supplied in combination with dedicated mixing heads:

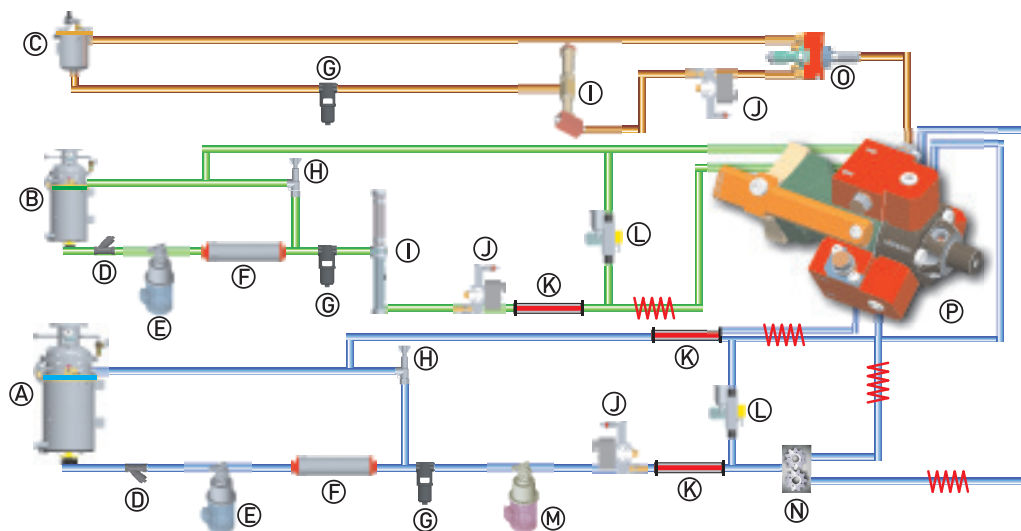
- LN5
- FPL10
- TRI07
- LS10 spray

E-System		
RATIO by weight Resin/Hardener/Release Agent	100 : 25 : 2	
	min	max
TOTAL OUTPUT (g/s)	25	160

Above data are calculated with a resin viscosity of 1,500 cPs

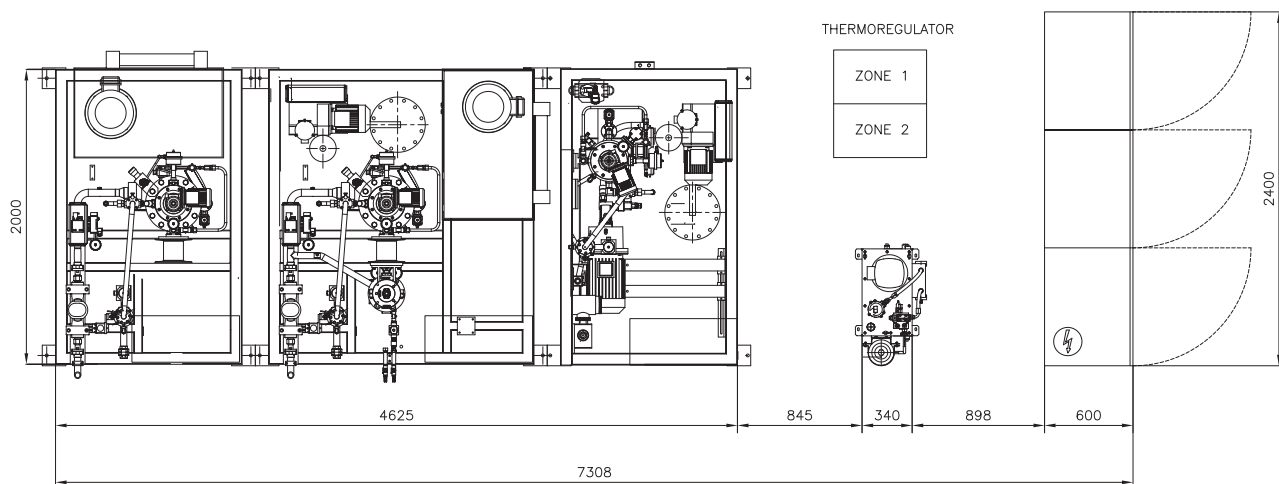


- Release Agent Circuit
- Hardener Circuit
- Base Circuit
- Ⓐ Ⓑ Ⓒ Tank
- Ⓓ Y Filter
- Ⓔ Feeding Pump
- Ⓕ Heat Exchanger
- Ⓖ Filter
- Ⓗ Backpressure Valve
- Ⓘ Hydraulic Plunger
- Ⓝ Flow Transducer
- Ⓚ Heated Rigid Pipe
- Ⓛ Stream Distributor
- Ⓜ Dosing Pump
- Ⓝ Flow Divider
- Ⓞ 3 Way Hydraulic Valve
- Ⓟ Mixing Head



Depending on the parts to be manufactured (dimension, weight, reinforcement, chemicals, production rate, etc.) the basic machine can be configured with some specific components:

- Release agent dosing group
- Heated box
- Degassing circuit and pump
- Hydraulic Re.Co. system
- Hardener hydraulic plunger
- Multiple mixing head supplied by one tank/dosing group
- Rigid pipes with water/oil coaxial heating
- Spray mixing head



Due to continuous developments in processes, all data contained in this leaflet are subject to variation by the manufacturer, without notification