



PRODUCT

**TWINFLOW LC50FR
TWINFLOW LC120FR**

The Twinflow FR pneumatically driven series is available in analogue and digitally controlled options.

The featured LC50FR and LC120FR fixed ratio metering, mixing and dispensing machines are digitally controlled utilising PLC, HMI touch screen technology enabling a wide range of electrical accessories and easy robot interface. Our latest parallel drive system ensures consistent processing of materials with either high mix ratio and/or differing viscosities. This new development engineered with Fluid Research's 'Posiload' positive displacement metering pump technology, ensures repeatable, accurate volumetric metering, mixing and dispensing of low to medium viscosity or thixotropic two part resin systems. Examples of which are epoxies, polyurethanes, silicones, adhesives or potting compounds.

This compact machine is simplistic in its format and flexible in its design to accommodate a range of optional extras to suit the wide range of available resins and differing customer application needs.

The LC50FR is capable of dispensing (depending on ratio) mixed material from 1 to 50cc. The LC120FR will dispense from 5 to 120cc to within +/- 1% volumetric accuracy. The LC120FR is a low cost investment and an economical solution to what is often inefficient and hazardous process.



TWINFLOW LC120FR



FLUID RESEARCH LIMITED

Unit 2, Wendel Point | Ryle Drive
Park Farm Industrial Estate | Wellingborough
Northants NN8 6BA
T: 01933 277571 | F: 01933 440273
E: sales@fluidresearch.eu



Technical Specification

	STANDARD FEATURES	STANDARD OPTIONS
EQUIPMENT	LC50FR / LC120FR	LC50FR / LC120FR
Reservoir Tanks	<ul style="list-style-type: none"> • 10 Ltr SS tank with clamped, sealed lid and moisture trap • 5 Ltr SS tank with clamped, sealed lid and moisture trap • 3 Ltr SS tank with clamped, sealed lid and moisture trap • 7L litre polyethylene reservoir 	<ul style="list-style-type: none"> • Low level sensor with visual and audible alarm • Tank stirrer electric, control on HMI • Tank stirrer pneumatic • Tank heater with built in thermostat and power cable
Metering Pumps	<ul style="list-style-type: none"> • Part 'A' 'Posiload' pump is EN40 anti-abrasive pump tube and glass filled nylon piston. • Part 'B' pump 303 stainless steel pump tube 	<ul style="list-style-type: none"> • Part B 'Posiload' pump EN40 anti-abrasive pump tube and glass filled nylon piston
Mixing Head	<ul style="list-style-type: none"> • Twinmixer 1/4BSP stainless steel 5/5 port machine mounted 	<ul style="list-style-type: none"> • Hand held, trigger operated • 5/3 or 5/3/5/ ported • Ratio check blocks • Seal cap
Hoses	<ul style="list-style-type: none"> • Standard length x 1/8 or 1/4 or 3/8 or 1/2 inch bore PTFE lined stainless steel braided, m/s end fittings, from pump to machine mounted mixer 	<ul style="list-style-type: none"> • 1/8 or 1/4 or 3/8 or 1/2 inch bore PTFE lined m/s stst end fittings 2 or 3 metres long • Heated and temperature controlled hose
Machine Control	<ul style="list-style-type: none"> • PLC, HMI touch screen • Shot size adjustment via slide and lock limit switch • Foot pedal actuation, full shot 	<ul style="list-style-type: none"> • Anti -gel timer on HMI • Shot counter repeater on HMI • Operator shot size control, machine returns to rest • Stalled shot, pumps set to continuous cycle but stalled against closed Twinmixer, opened with foot pedal or trigger if hand held option • LSA shot size control, limit switch on movable lead-screw • Kinecheck shot speed control • Re-circulation after NRV back to reservoir • Service kit for pump and mixing head

