

ES-430 Fixed Ratio P.F.P. Cart Mounted System Specification

Standard ES-430 System with Certified Lifting Frame



Cart Mounted Heated Airless Spray System. Suitable for the application All Major Solvent Free Plural Component Intumescent (PFP) Fireproofing Epoxies. The ES-430 is a compact unit built around supplying a complete proportioning system for the accurate mixing and application of PFP materials.

Mixing Ratio	Pressure Ratio	Pump Designation	Volume per Cycle (litres)	Delivery at 20 Cycles (l/min)	Delivery at 20 Cycles (US Gal/min)
2.33:1	67.8:1	T180-T155-T180	0.514	10.281	2.72
2:1	64.6:1	T180-T180-T180	0.539	10.779	2.85
1:1	79:1	T220-T220	0.441	8.813	2.33
2.5:1	69.2:1	T180-T145-T180	0.504	10.085	2.66

Different pump configurations are available if required to give other ratios and output rates. Metering Pump Lowers are easily changed. (However this will slightly alter the delivery and pressure rates on the table above.)

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QTY	DESCRIPTION
1	ES-430 Metering System complete with 430 Air Motor and Fixed Ratio proportioning system standard configuration by volume as required. Air supply with solenoid air operated regulator/lubricator distribution manifold.
2	21:1 Feed Pumps , dual action ram mounted c/w follower plate assemblies, air bleed valve, bucket blow off valve, pump air regulator and air shutoff valve.
1	30:1 Stainless Steel Flushing Pump c/w air reg, pressure gauge air shutoff valve, suction hose and High-pressure outlet shutoff valve.
3	Hot Water recirculation pumps c/w air reg, pressure gauge air shutoff valve and water shutoff valve.
2	15" (84Ltr) Stainless Steel Material Holding Tanks c/w Heavy-Duty Agitator , insulation and protective covers, High/Low level auto feed and shut off material sensor, air regulator, pressure gauge, outlet material thermometer, and material shutoff valve.
3	High Pressure In-Line material heaters 4KW each, (2 Base/1 Activator) thermostatically controlled, c/w high-pressure outlet thermometers.
3	Stainless Steel water recirculation/flush tank with thermostatically controlled heating, insulation, protective cover and supply water hose connection.
1	High Pressure Outlet Manifold with base and activator feed and return valves, material isolation valves, high pressure 0-8000 P.S.I. Pressure gauges, hot water recirculation valves, and hot water/solvent flushing valve.
1	Electrical Control Panel with circuit breakers for each separate electrical component on the unit. 380 / 440Volt 32amp 5 Pin Plug Supply.
1	Pneumatic Control Panel comprising System Shutdown and Reset controls with integral pneumatic pressure switches to high pressure A & B component lines are installed to automatically shut down the system in the event of over-pressure of A or B materials.

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1	15 Mtr Hose Bundle c/w Material Supply hoses, water heating hoses and flush supply hose fully insulated.
1	Remote Mixer Block Assembly c/w material on/off valves, flush valves, ratio sampling valves and material check valves. 5 Mtr ½” Whip Hose paint line and ¾ “ Stainless Steel mixer tube and mixer blade.
1	High Volume Heavy Duty ES PFPG Airless spray gun c/w swivel, spray tip and holder.
1	Standard spares package.
1	Daily maintenance checks manuals.
1	Full set of breakdown and service manuals.

Additional Extras

1	High Pressure Shut Down system c/w emergency stop button.	TBA
1	15 Mtr Hose Bundle	TBA
1	Certified Lifting Frame	TBA

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Category	ES430 Data
Maximum air input Pressure	9 bar (130 psi)
Operating pressure range	0.7 – 9 bar (10 – 130psi)
Maximum recommended speed	20 cycles per min
Operating temperature	-5 to 65°C (23 to 150°F)
Air motor piston effective area	1452 cm ² (225in ²)
Air motor piston diameter	430 mm (16.93")
Stroke length	120 mm (4.75")
Air inlet size	1" BSPP
Weight	Approx. 50kg (110lb)

Sizes & Weights

System Dimensions:

Height: 1.9 Mtrs (75")
 Width: 1.22 Mtrs (48")
 Length: 2.4 Mtrs (94")

System Weight: 1400 Kgs (3,080 Lbs)

System Requirements

Electrical requirements:

380/440 volts, 3 Phase, Neutral + Earth, 5 pin 32 Amp 32 KW supply.

Air Supply: 300 CFM @ 110 Psi

Clean fresh water supply.

