

CoverCat 302F – HWH PFP Spray and Dispensing Machine

Mobile Heated Plural Component Metering and Dispensing System for PFP materials with multiple voltage supply and control.

A machine for solvent free application of Intumescent Fireproofing Epoxies using either spray. The system is compact, mobile and simple to use being most suited to small area applications and is intended to replace Single Pack Application where solvent addition is no longer required.

The unit is supplied with feed pumps for filling of component material tanks and with flush pump enabling purging of mixed material.

A key feature is the use of unique CoverCat HP tube heaters allowing high viscosity materials to be heated quickly with minimal pressure drop.

The system is easily converted to ATEX rating as it uses 3 special water immersion heaters and also has the option of being a multi-voltage unit making transfer between different locations and power supply an easy change.



Typical 302F - HWH Unit

The CoverCat 302F HWH machine is intended for use in offshore and petrochemical installations requiring small to medium production areas of PFP materials. It has been designed for easy conversion to ATEX applications due to only 3 immersion water heaters being used for component heating.

It is also very easily converted for use as a batch dispense system for assistance with hand applied areas therefore removing the need for slower and messy premixing and solvent addition.

This is a solvent free system of application.

View showing internals of Atex safe area electrical enclosure and multi-voltage operating switch



General Details

- One: Four wheel flat bed 452 Type cart with Heavy Duty Wheels/Tyres and two steering front wheels, complete with pull bar.
- One: CoverCat 290 Metering Pump complete with 290mm diameter Air Motor and set to Fixed Ratio by volume as required. Mounted to support column. Standard setting is 2.33:1 mixing ratio by volume. Additional Pump Assemblies for 3:1, 2:1 and 1:1 are available as optional extra items.
- Two: High Pressure Safety Relief Valves.
- Two: Component Storage Tanks, Stainless Steel, Base 55 litre (15US gallon), Activator 38 litre (10 US Gallon), heated and insulated. Complete with variable speed agitator units and safety blow off valves.
- Two: Outlet Temperature Thermometers
- Three: High Pressure ¾" Fluid heater with impact resistant cover and outlet thermometer



Mixing Ratio	Pressure Ratio	Pump Designation	Delivery per Cycles (l/min)	Delivery at 15 Cycles (l/min)
2.33:1	47:1	98-CBR-91	0.33	5.0
2:1 option	45:1	98-CBR-92	0.35	5.22
1:1 option	51:1	94-CBR-94	0.31	4.63

Alternative Ratios are available from a large stock range of alternative Metering Pump cylinders and are easily changed. (This will slightly alter the delivery and pressure rates above.)

- One: Dispensing and /or Outlet Manifold, complete with re-circulation and isolation valves, pressure and temperature gauges. (1x Mix Block Head, 2x Check Valves and 1x Mixer Tube Assembly mounted onto outlet manifold for use as a batch dispense facility for touch up and repairs.)
- Two: Ram mounted 20:1 feed pumps with follower plate and ram with control valves linked to pneumatic level fill control in material tanks.
- One: 15m (50ft) hose bundle assembly. Includes High Pressure Feed Hoses for A & B materials, return hoses for hot water circulation, and flush hose.
- One: Remote ¾" Mix Manifold Assembly mounted in protective steel cage. Includes return, isolating, flushing and check valves with ¾" Static Mixer and 5m x ½" whip hose.
- One: CoverCat PF1 Spray gun with Hp swivel and spray tip.
- Three: Stainless steel water tank and Immersion heater with dual thermostat and over temperature trip out.
- Three: Circulation Pump for hot water heating of Material heaters, Hose Assemblies and around component storage tanks.
- One: Flush Pump c/w outlet fitting, drain valve and connecting hose to manifold.
- One: Compressed Air installation kit, including filter, regulators, gauges and lubricators as required and all interconnecting hoses and fittings fitted to control panel.



One: Safety wheel lock brake kit



One: Basic Operators Tool Kit including Technical Operators and Maintenance Manual.

System Requirements, Sizes & Weights

Compressed Air: 150cfm (5m³/min)@ 110psi (7.7kg/cm²) minimum recommended
Electrical: Switchable between 690, 600,480,44,400,380 Volts 1x 380/440 3phase N+E, 32amp
(5 wire, TN-S) 50/60Hz, 28kw maximum load,
28kw supply, 63amp recommended on-site.
Approx. Size: 2300mm (90") x 1100mm (42") x 1850mm (72") high
Approx. Weight : 1000kg (2240lbs) (packed for shipping)

System Schematic 302F HWH

