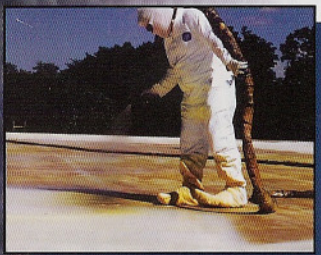
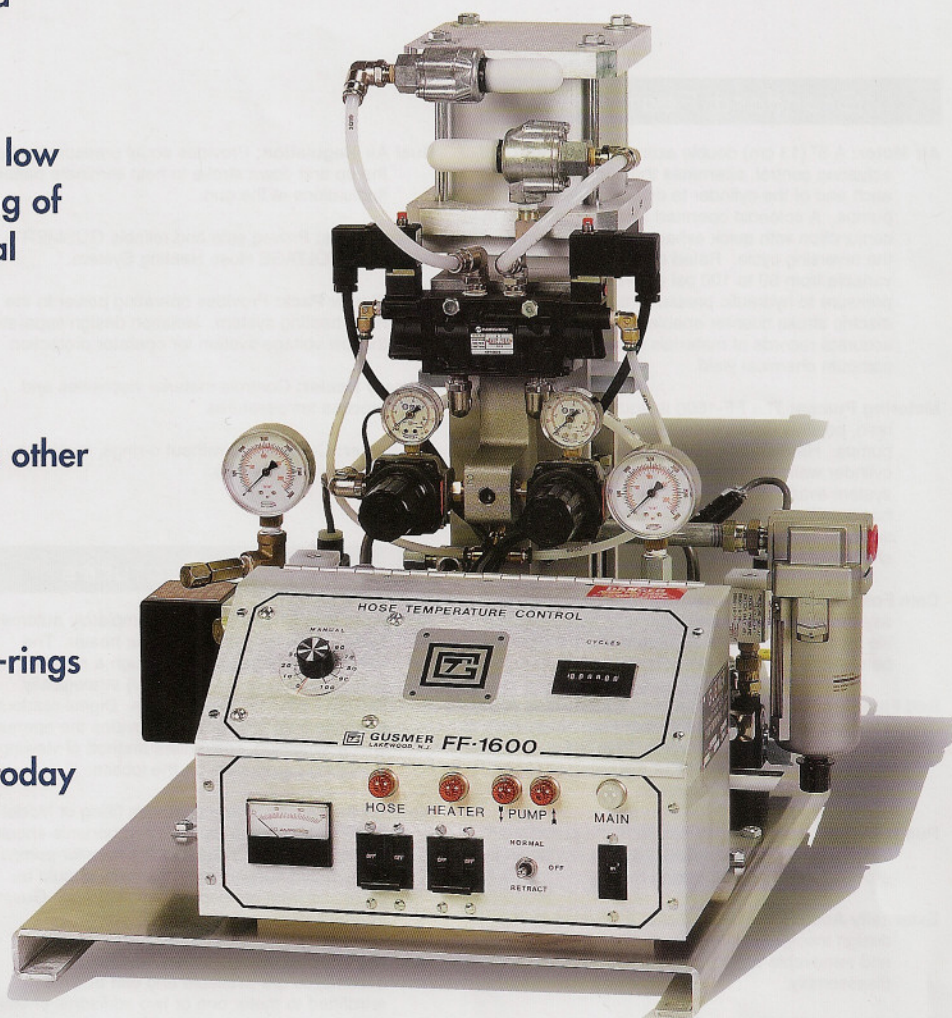


FF-1600

AIR DRIVEN PROPORTIONING UNIT

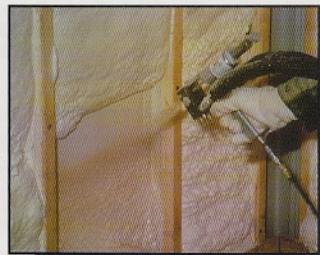
- Compact, lightweight, and mobile design
- Designed for economical, low output spraying or pouring of plural component chemical systems
- Durable; ideal for use in roofing, construction, and other related field applications
- New mass style heater, eliminates the need for O-rings
- Tens of thousands in use today



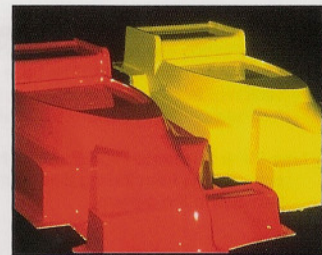
Roofing



Cavity Fill/Insulation



Construction



In-Plant

 **GUSMER**
CORPORATION

Technical Data

U.S.

Maximum Output:	16 lbs/min
Maximum Rated Pressure:	1600 psi
Viscosity:	250-1500 cps
Air Requirement:	26 SCFM @ 100 psi
Electrical:	40 amps @ 1 x 220; 60 Hz
Weight:	140 lbs
Actual Dimensions:	H=24 in/ W=26 in/ D=30 in

Metric

7 kg/min
108 bar
250-1500 cps
12 liters/sec @ 7 bar
8.7 kw
63 kg
H=61 cm/ W=66 cm/ D=76 cm

Standard Features

Air Motor: A 5" (13 cm) double acting cylinder, with self-actuating control, alternates the supply of air to each end of the cylinder to drive the metering pumps. A solenoid operated air valve operates in conjunction with quick exhaust valves to accelerate the reversing cycle. Rated operating pressure is variable from 50 to 100 psi (3.5-7 Bar). Air pressure to hydraulic pressure ratio is 16:1. An electric stroke counter enables operator to keep accurate records of materials used, and to compute chemical yield.

Metering Pumps: The FF-1600 is equipped with fixed ratio, positive displacement, double acting piston pumps. Hard chrome plated piston rods and cylinder walls to provide the most reliable pumping system available. An internal piston packing set has a self-adjusting take-up. Over-pressure safety switches on each pump deactivate the air motor should safe pressure limits be exceeded.

Cam Follower Guide Connecting Yoke: Eliminates asymmetrical forces and increases pump packing life by assuring proper alignment and balance between air cylinder and pumps.

Self Flushing Packing: By providing a lubricating rinse, the shaft seal cavity is protected from hardened isocyanate on the pump shaft. This will significantly extend the life of the pump seal and reduce maintenance downtime.

Pump Retract: Automatically positions the pump shaft completely within the cylinder during shutdown to provide longer pump packing life.

Externally Accessible Valve Balls: Innovative pump design incorporates readily serviceable valve balls and removable ball seats without pump disassembly.

Quick Exhaust Valves: Specially designed exhaust valves accelerate the reversing cycle of the air cylinder to maximize pressure stability.

Completely Mobile: The lightweight, compact design of the FF-1600 allows for simple mobility around your plant and to the jobsite. The base plate is designed to be easily forklifted or skid mounted to facilitate on-site transportation and maneuvering.

In-Line Filter Screens: Protects valve balls and gun components from fouling due to unwanted dirt and particles in the system.

Dual Air Regulation: Provides equal pressure on both the up and down stroke to help eliminate pattern fluctuations at the gun.

Heated Hose: Proven safe and reliable GUSMER'S LOW VOLTAGE Hose Heating System.

Hose Power Pack: Provides operating power to the hose heating system. Isolation design separates the low voltage system for operator protection.

Primary Heater: Controls material viscosities and process temperatures.

Pre-heater: Constructed without o-rings, making it virtually service-free.

Optional Features

Automatic Hose Heat: Provides completely automatic temperature control of the hose heater. The temperature is measured through a remote temperature sensing unit (TSU) strategically located inside the heated hose. Digital readout of the hose heat temperature provides the operator with a simplified, convenient method of viewing operating parameters on the jobsite.

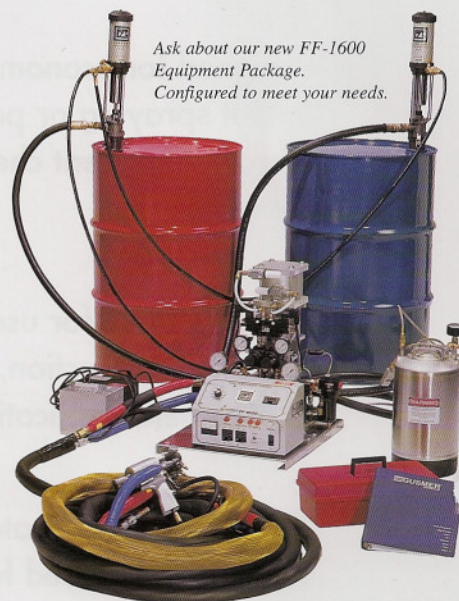
Material Supply: To insure complete filling of Model FF-1600 metering pumps, both components should be pressure fed using Gusmer 2:1 transfer pumps or pressurized supply tanks. Material should be protected from atmospheric moisture via Gusmer air dryer and regulator.

Auxiliary Proportioning Pump: Auxiliary pump assemblies are available and can be field retrofitted to meter one or two additional chemical components such as resin, blowing agent, catalysts, flame retardants and coloring.

Mix Heads/Spray Guns: A wide variety of standard and specialty application mixing heads are available for Spray, Pour, or Injection to meet your production requirements.

Gusmer TX-50 Processor: Provides 100 separate programmable channels for automatic shot selection.

Ask about our new FF-1600 Equipment Package. Configured to meet your needs.



Encoder: Used with the Gusmer TX-50 Processor to automatically dispense a metered amount of material.

Hoses: Available in 50, 25 & 10 foot (15.2 m) lengths up to 310 feet (94.5 m).
3/8" x 50' (.95 cm x 15.2 m)
1/4" x 10' (.64 cm x 3.1 m)

Varied Ratio Operation: The FF-1600 will process a wide range of system ratios from 1:4 to 4:1. The fixed ratio adjustment is made by substituting smaller or larger metering pumps of various sizes. All pump sizes are interchangeable and can be ordered through Gusmer to fit custom applications.

Dual Variable Ratio Kit: The addition of the DVR mechanical arm will process a wide range of system ratios from 1:18 to 18:1. The fixed ratio adjustment is made by substituting smaller or larger metering pumps of various sizes in combination with the VR mechanical arm.

WARNING: The equipment described herein must only be operated or serviced by properly trained individuals, thoroughly familiar with the operating instructions and limitations of the equipment.

NOTICE: All statements, information and data given herein are believed to be accurate and reliable but are presented without guarantee, warranty or responsibility of any kind expressed or implied. Statements or suggestions concerning possible use of GUSMER Equipment are made without representation or warranty that any such use is free of patent infringement, and are not recommendations to infringe any patent. The user should not assume that all safety measures are indicated or that other measures may not be required.

NOTE: All standard and service specifications identified on this GUSMER technical sales flyer are based on U.S. standards.

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