HV-20/35™

PLURAL-COMPONENT HYDRAULICALLY DRIVEN METERING UNIT

- **Electrically and hydraulically operated. No industrial size compressor required**
- **Seal-less design provides a truly leak-free heater**
- **Hydraulic operation offers more precision and better pattern continuity**
- **Excellent for on-site construction, in-plant and laboratory use**
- **Compact and mobile**
- **Increased heating capacity**

Corrosion Protection

Insulation

Coatings

REGISTERED COMPANY ISO 9001 SGS

GUSMER® CORPORATION

Technical Data

	U.S.	Metric
Outputs up to:	25/20 lbs/min*	11.3/9.1 Kg/min
Maximum Rated Pressure:	2000/3000 psi	138/207 Bar
Viscosity:	250-1500 cps	250-1500 cps
Weight:	490 lbs	222 kg
Dimensions:	H=46 in/ W=22 in/ D=35 in	H=111 cm/ W=71 cm/ D=72 cm

Electrical: 94.6 amps @ 1 x 220v, 60 Hz (2) 6000 W Heaters 18.7 Kw
57.2 amps @ 3 x 220v, 50/60 Hz (2) 6000 W Heaters 19.6 Kw
73 amps @ 3 x 220v, 50/60 Hz (2) 9000 W Heaters 25 Kw
49.7 amps @ 3 x 380v, 50/60 Hz (2) 6000 W Heaters 29.4 Kw
57.8 amps @ 3 x 380v; 50/60 Hz (2) 9000 W Heaters 34.2 Kw

** HV-20/HV-30 respectively*

Standard Features

Hydraulic Drive: A double acting hydraulic cylinder drives Gusmer's HV metering pumps by a self-actuating reversing system. Hydraulic power is supplied through a positive displacement pump driven by a motor. Pressure is variably controlled by an adjustable compensator on the hydraulic pump. The hydraulic reservoir is fitted with a removable access cover for easy cleaning.

Automatic Hose Heat: Provides automatic temperature control of the hose heater. The temperature is measured through a remote temperature sensing unit. Digital temperature display allows the operator a simplified, convenient method of setting and viewing operating parameters on the jobsite.

Metering Pumps: The Hydraulic HV-20/35 is equipped with constant displacement, double acting piston pumps. Hard chrome-plated piston rods and cylinder walls provide one of the most reliable pumping systems available. Over-pressure safety switches on each pump deactivate the control circuit and pump action should the preset pressure limits be exceeded.

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

Lube Pump System: A totally enclosed lubrication system with reservoir continually flushes the pump shaft seal cavity with a lubricating rinse to wash away weepage and protect the shaft from hardened isocyanate.

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

Externally Accessible Valve Balls: Innovative pump design incorporates readily serviceable valve balls and removable ball seats without having to completely disassemble the pump.

Completely Mobile: The lightweight, compact design of the Hydraulic HV-20/35 allows for simple mobility around your plant or jobsite. The casters can be removed and the castor holes used for permanent mounting in a vehicle or foam application station.

Open Modular Construction: The unit is designed to offer easy access to all components.

Heated Hose: Proven safe and reliable, Gusmer's low voltage hose heating system maintains temperature throughout the length of the hose.

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

Primary Heater: Constructed without o-rings, this truly leak-free design uses metallurgic science for accurate control of system viscosities and process temperatures. HV-20/35 is available with 6000 or 9000 Watt heaters.

In-Line Filter Screens: Protects valve balls and gun components from fouling due to unwanted dirt and particles in the system. Screens are easily removed for cleaning or replacement.

Optional Features

Programmable Logic Control (PLC): The HV-20/35 is controlled by a PLC with a user friendly operator interface. Operator screen shows machine status including flow chart and totalizer. The operator always has the daily and total chemical usage. There is a fault management system that alerts the operator to the occurrence and type of fault.

Material Supply: To insure complete filling of the metering pumps, both components should be pressure fed using Gusmer 2:1 transfer pumps. Material should be protected from atmospheric moisture.

Auxiliary Proportioning Pump: Auxiliary pump assemblies are available and can be field retrofitted to meter one or two additional chemical components.

Mixing 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.

Hoses: Available in 50 foot (15.2 m) lengths up to 310 feet (94.5 m).
1/2" x 50' (1.27 cm x 15.2 m)
3/8" x 50' (.95 cm x 15.2 m)
1/4" x 10' (.64 cm x 3.1 m)
1/4" x 50' (.64cm x 15.2 m)

Optional PLC Control

Part No.: #SLHV20/35 5/2003

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