

Technical Data

HV-20/35

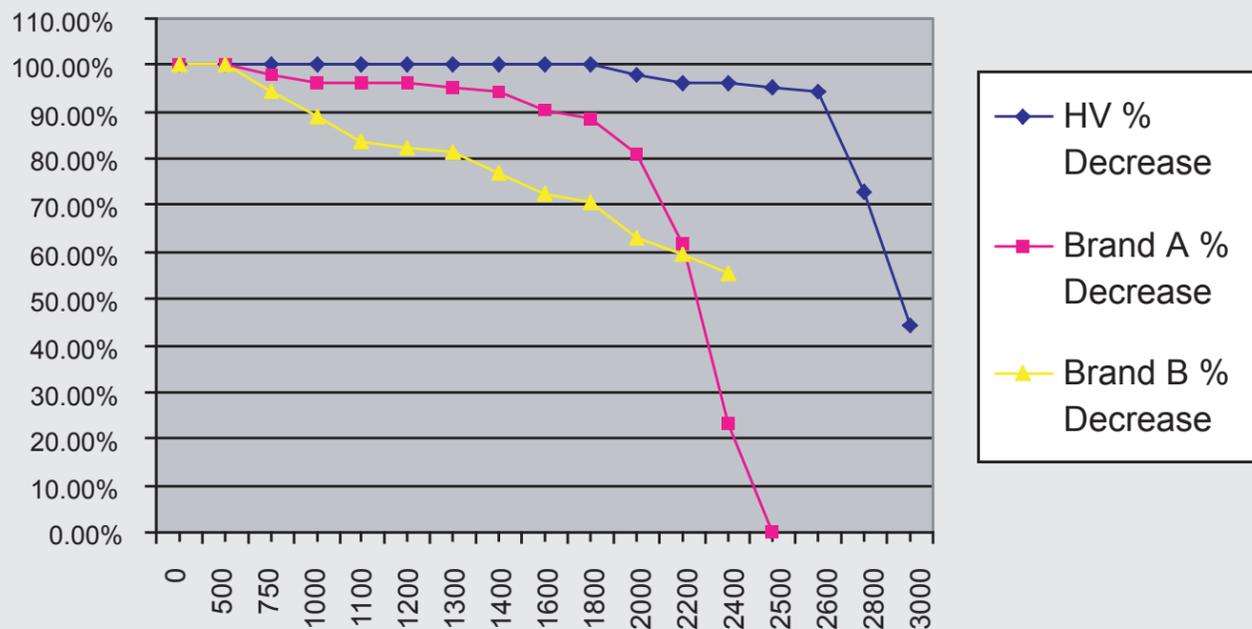
	U.S.	Metric
Outputs up to:	25/20 lbs/min*	11.3/9.1 Kg/min
Maximum Rated Pressure:	2000/3000 psi	138/207 Bar
Viscosity:	250-1500 cps	250-1500 cps
Weight:	490 lbs	222 kg
Dimensions:	H=46 in/ W=22 in/ D=35 in	H=111 cm/ W=71 cm/ D=72 cm

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



Machine Output % Comparison Vs. Back Pressure



Graph Explanations/Examples:

@ 2500 psi the HVs' output would be 95% of its maximum (2.3 GPM) or 2.18 GPM
 @ 2400 psi the HVs' output would be 97% of its maximum (2.3 GPM) or 2.23 GPM.

@ 2500 psi the Brand As' output would be zero GPM. The machine would be stalled.
 @ 2400 psi the Brand As' output would be 22% of its maximum output (2.5 GPM) or 0.55 GPM

@ 2500 psi the Brand Bs' output would be 55% of its maximum (2.8 GPM) or 1.54 GPM
 @ 2400 psi the Brand Bs' output would be 60% of its maximum (2.8 GPM) or 1.68 GPM

Conclusion: Both Brand A & B equipment provide significantly lower outputs as backpressure increases when compared to the Gusmer HV

See our website for complete product information: www.gusmer.com



www.gusmer.com
 One Gusmer Drive • Lakewood, NJ 08701 • USA
 732.370.9000 • 1.800.367.4767 • info@gusmer.com

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.

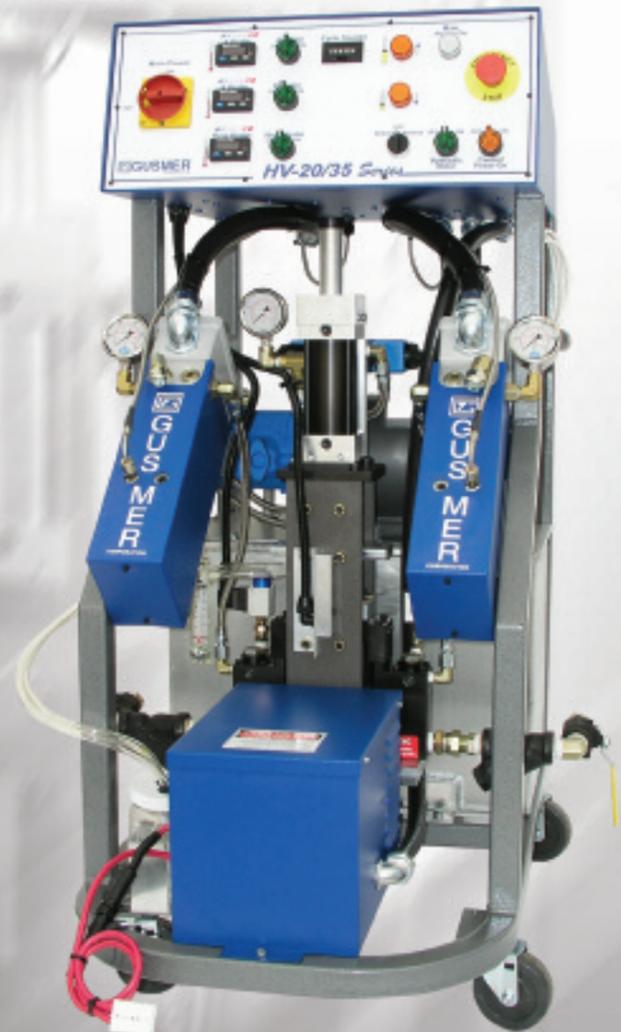
NOTE: All standard and service specifications identified on this GUSMER technical sales flyer are based on U.S. standards.

HV-20/35™

Industry Proven, Most Reliable and Durable!

HV-20/35 FEATURES

- Highest "Delta T" in the industry!
- NEW AmpLok™ Hose Heat Control System with automatic 52 amp hose heating circuit
- Digitally controlled heat for optimum control of material process temperatures
- Engineered to maximize durability and minimize maintenance
- Electrically and hydraulically operated. No industrial size compressor required
- Hydraulic operation offers more precision and better pattern continuity



Corrosion Protection



Roofing



Foam Insulation



Coatings

HIGH PERFORMANCE



The HV-20/35 Series is a state of the art high performance plural component and hybrid chemical dispensing machine that brings you all the advantages of Gusmer's proven engineering innovations. The HV-20/35 is designed and manufactured by Gusmer with special attention to accuracy and performance reliability.

HV-20/35 Series

Available Options

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).

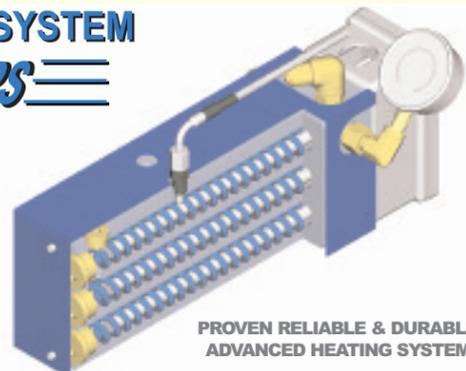
- 1/2" x 50' (1.27 cm x 15.2 m)
- 3/8" x 50' (.95 cm x 15.2 m)
- 1/4" x 10' (.64 cm x 3.1 m)
- 1/4" x 50' (.64cm x 15.2 m)

GUSMER'S PROVEN ADVANCED HEATING SYSTEM

HYBRID MASS TUBE STYLE HEATERS

The most significant performance feature on the HV-20/35 is the NEW pre-heater system. The HV-20/35 is available with two 6000 Watt or two optional 9000 Watt Heaters. Recent field tests conducted with a leading supplier of polyurea systems, claim the HV-20/35 has the "highest heat output in the industry."

The heater design is a hybrid of Gusmer's proven High Mass (FF-1600) design and Direct Contact (H-20/35) design with improved heat transfer efficiency (or Delta T). The heater also performs with very little temperature over-run allowing for tighter control of process temperatures. Constructed without o-rings, this truly leak-free design uses metallurgic science for accurate control of process temperatures and system viscosities.



PROVEN RELIABLE & DURABLE
ADVANCED HEATING SYSTEM

The HV-20/35 will enable you to:

- Be Completely Mobile! The light-weight, compact design of the HV-20/35 allows for simple mobility around your plant or jobsite. The casters can be removed and the caster holes used for permanent mounting in a vehicle or foam application station.
- Access all components quickly and easily! The HV-20/35 was designed with an open modular construction for ease of maintenance and service-ability which means less down time.



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.

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.

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.

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.

Heated Hose

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

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.

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.

Cam Follower Guide Connecting Yoke

Eliminates asymmetrical loading and increases pump packing life by assuring proper alignment and balance between hydraulic cylinder and pumps.

Welded Steel Frame

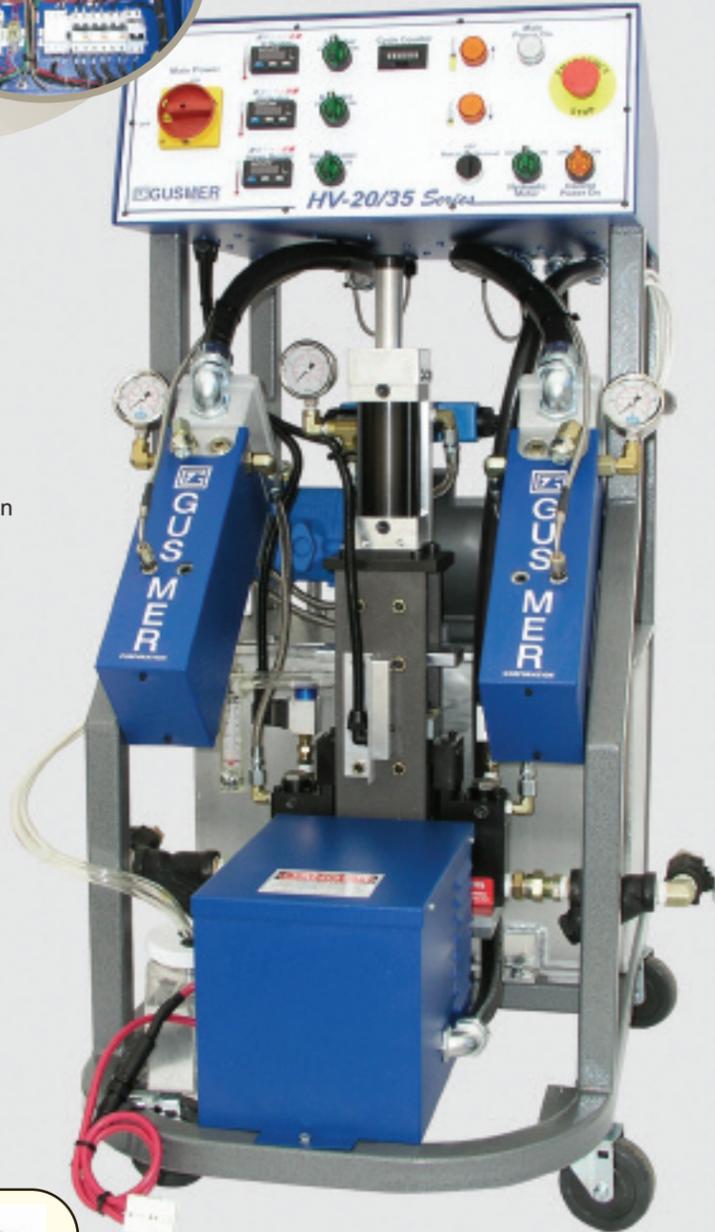
The compact Gusmer open design facilitates easy access for operation, service, and maintenance, providing a service-friendly environment.

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.

Advanced Powder Coating

Gusmer uses powder coated tough surface paint on the HV-20/35 Unit. This advanced coating technology is resistant to chipping, scratching, fading, and wearing compared to other finishes. It's environmentally friendly, longest-lasting, vibrant colored and tough!



The HV-20/35 Series incorporates the same durable and reliable features found in all our high performance equipment.

The Hydraulic Vertical HV-20/35 Series is designed to manufacture a wide variety of plural component chemical systems from urethane foams to polyureas and other hybrid coatings.

Protective Coatings

Foam Wall Insulation

Roofing

Adhesives

Construction

Cavity Filling

Corrosion Protection

Secondary Containment

Abrasion Resistant Coatings

Decorative Polyureas

Line Striping

Marine Coatings



See our website for complete product information:

www.gusmer.com