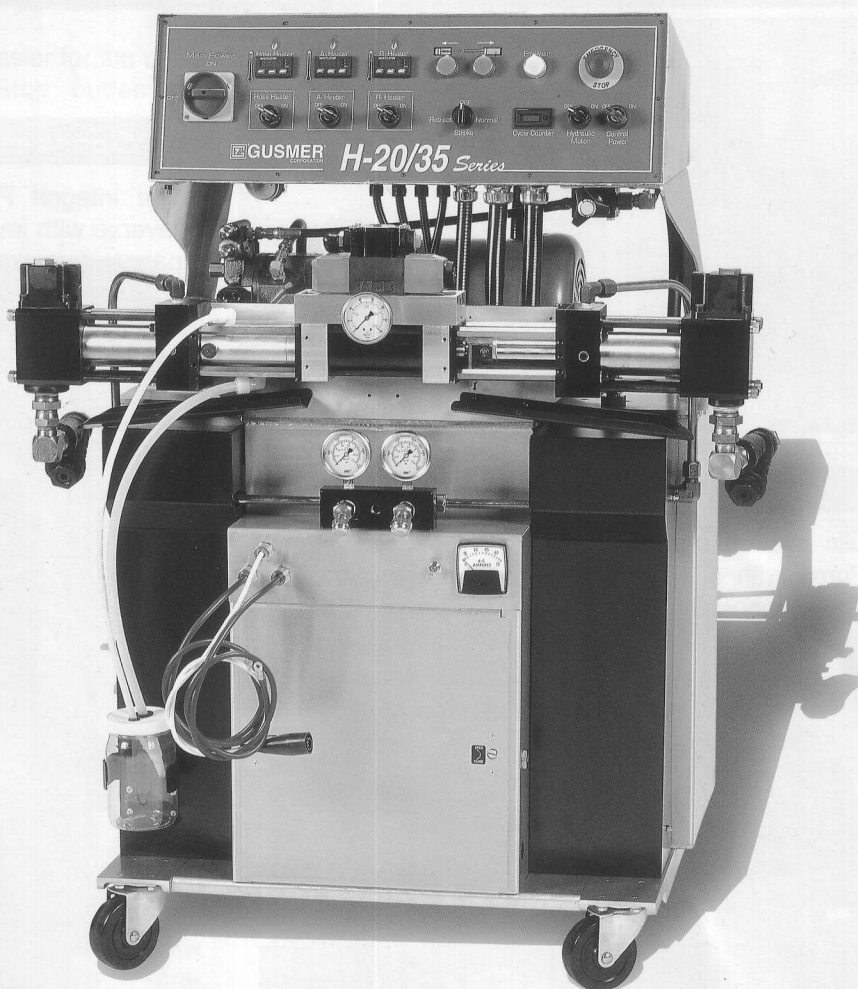


H-20/35 Series

A MAJOR BREAKTHROUGH IN METERING UNIT PERFORMANCE AND SERVICEABILITY



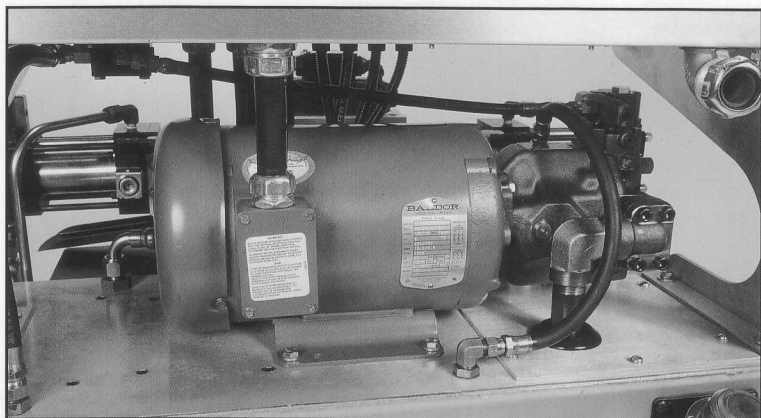
**GUSMER has established the following belief,
which drives all we do:**

*"We are a performance driven company balanced by
exceptional technical support, innovation, training and
quick delivery."*

GUSMER[®]
CORPORATION

In an effort to improve upon the Gusmer H-2000 and H-3500, Gusmer designed the new H20/35 with the goal of providing improved performance characteristics and serviceability over our H-2000 and H-3500 machines. A monumental task considering that the H-2000 and H-3500 models are the largest selling, most highly regarded hydraulic metering units in the history of plural component spray equipment.

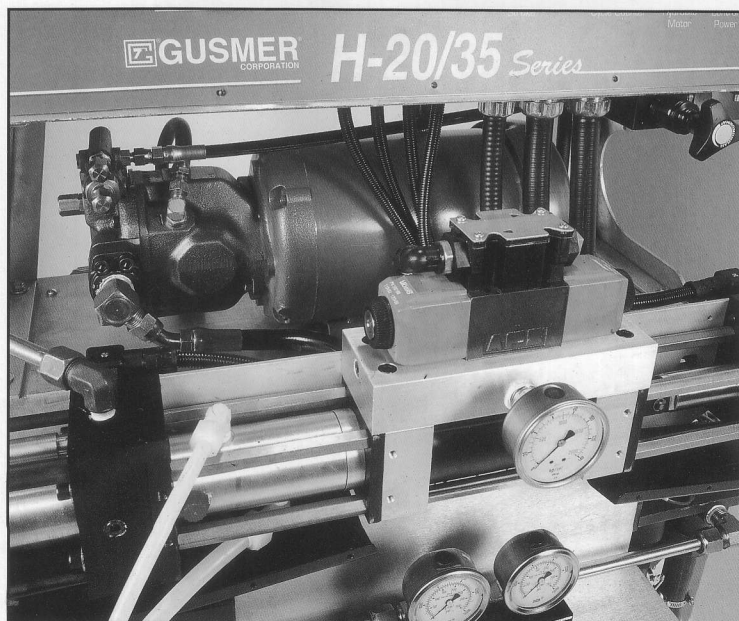
Gusmer surpassed these performance goals by substantially increasing heat capacity, output and operating pressure over the H-2000, H-3500 and other competitive equipment brands. The stringent serviceability goals were satisfied by designing the H-20/35 to allow daily as well as major maintenance tasks to be performed in a fraction of the time previously required.



Rexroth Hydraulic Pump With 5 HP Close-coupled Motor

Hydraulic Pumps

The hydraulic system used on the H-20/35 is a Rexroth Hydraulic Pump with 5 HP close-coupled motor. Rexroth remote pump compensator controls hydraulic pressure. This replaces the mechanical style utilized on older style machines. The close-coupled motor attaches to the hydraulic pump in a fraction of the time for much faster maintenance. This robust pumping system utilizes an 18cc (8gpm) pump that provides exceptional power and performance. The H-20/35 uses a two bolt-mounting flange to provide fast pump removal and installation for less downtime. The flanged O-ring fittings make maintenance tasks substantially easier compared to pipe fittings.



Directional Valve

Opposed Piston Pumps

The integral Pump Base of the H-20/35 provides faster reverse with improved access to ball checks for less maintenance downtime. Gusmer has also installed special ball check sizing allowing for a tighter, smoother pump reverse with virtually no pressure reduction. Gusmer maintenance friendly design and construction allows servicing of the ball checks and pump base in 50% of the time of previous models. The world-renowned Gusmer Opposed Piston Pump design provides significantly more stable spray pattern development and pressure consistency than vertical yoke driven pumps. Another enhancement to the H-20/35 is the place-

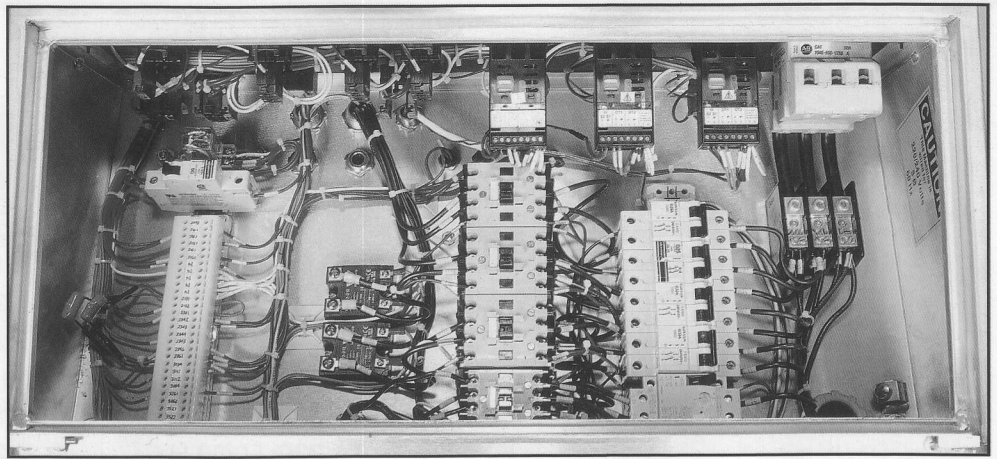


Opposed Piston Pumps Including Integral Pump Base

ment of the material outlet; it is located on the top of the pump instead of the side or bottom. This design eliminates trapped air pockets and minimizes chemical waste during servicing operations. Gusmer has incorporated front mounting of the compact directional valve facilitating accessibility for maintenance and troubleshooting. The above enhancements have decreased servicing time by 70% over older style machines.

Electrical Console

The electrical console has undergone extensive redesign. Gusmer now uses internal circuit breakers instead of fuses. need to carry spare fuses. Simply reset and continue to work. Every wire is numbered and identified on electrical schematics for easy troubleshooting. The console has been designed in such a way that it provides easy access to electrical components for maintenance and troubleshooting. The electrical component layout follows the flow of the electrical power. The increased accessibility to test points facilitates fast troubleshooting, again making diagnostics easier for the user. Gusmer has installed an Emergency Stop button for enhanced operator safety. All of the above mentioned advancements were put in place to aid the user in serviceability and safety.



Electrical Console



Emergency Stop

Heater

One of Gusmer's objectives in the creation of the new H-20/35 was to increase the heating capacity. The new vertically set 6000 watt pre-heaters are longer with 65% more surface area. Lab tests indicate improved capacity and more accurate control with the combination of increased surface area and use of Watlow Digital Temperature Controllers. Gusmer combined the additional surface area of the heaters with the Watlow Digital Temperature Controllers in order to provide more precise temperature control over the analog style found on older units. The Watlow Controllers provide faster response and more accurate control compared to analog type controllers. Internal program variables built into the Watlow Controllers allow control parameters to be customized for optimal heater performance with minimal overshoot. When redesigning the pre-heaters for the H-20/35 Gusmer utilized a one bolt removal technique for quick and easy maintenance. The heater can be removed in 50% less time than previous designs, with all heater rods accessible for quick servicing from the top of the heater for reduced chemical spillage and waste.

Hose Heat

The next area Gusmer examined was that of the hose heat. Gusmer increased the size of the transformer to 90-volt, which delivers 25% more power than the older style. This provides faster hose heat warm-up and increased heat capacity. We did away with fuses and replaced them with an internal 50-amp circuit breaker. The hose heat amp meter has been placed on the transformer secondary, providing an accurate reading of hose heat amperage. Additionally, the new phase controller allows the operator to fine-tune the hose heat power for more accurate temperature control of the material in the hoses.



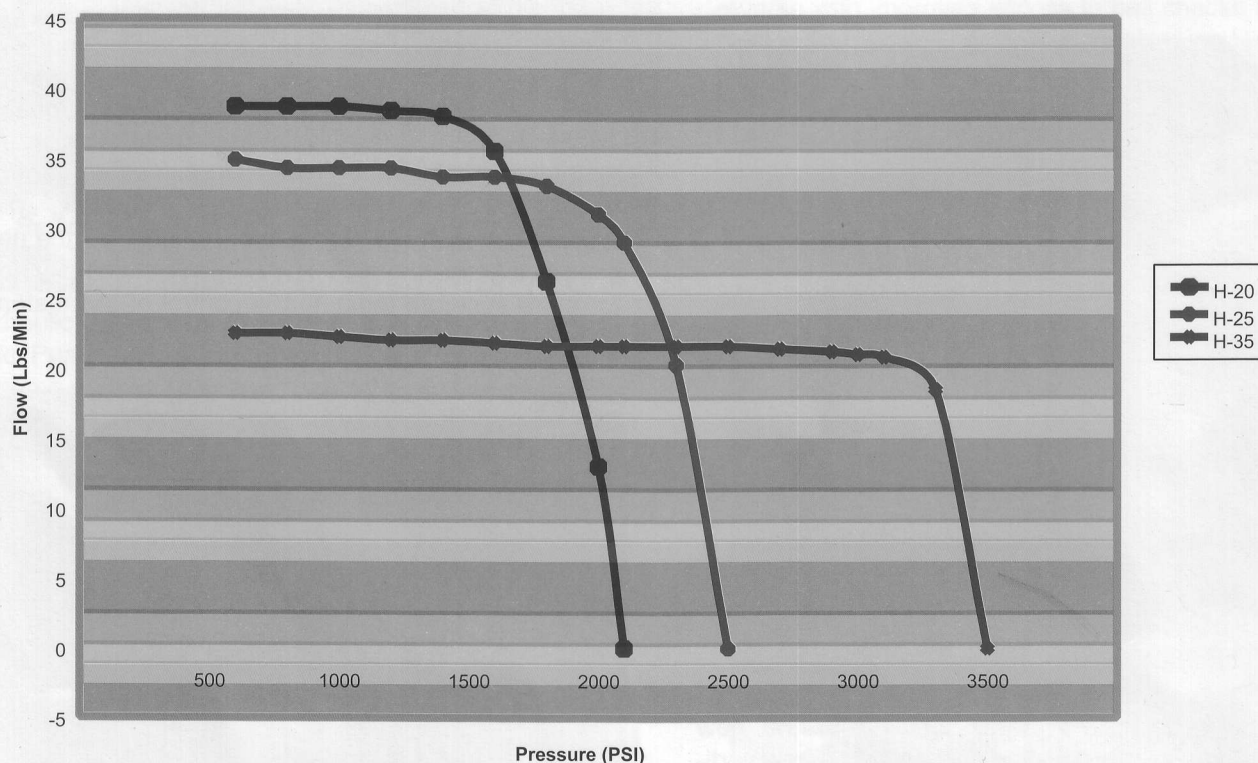
Vertically Set 6000 Watt Pre-heaters

Technical Data

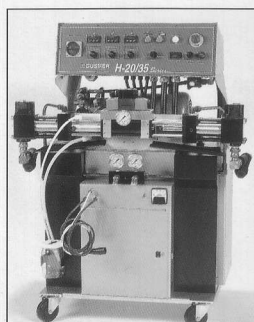
	U.S.	Metric
Outputs up to:	38/34/24 lbs/min*	17.3/15.4/10.8 kg/min*
Maximum Rated Pressure:	2000/2500/3500 psi	138/172/240 bar
Viscosity:	250-1500 cps	250-1500 cps
Weight:	575 lbs	260 Kg
Actual Dimensions:	H=47 in/ W=40 in / D=22 in	H=119 cm/ W=102 cm/ D=56 cm
Electrical:	94 amps @ 1 x 220; 60 Hz	18.6 Kw
	60 amps @ 3 x 220; 50/60 Hz	20.5 Kw

*H-20/H-25/H-35 respectively

Flow Vs. Pressure



*Test performed with mineral oil. Flow calculated using specific gravity of 1.2 at 220V.



Ask about our new H-20/35
Series Equipment Package.
Configured to meet your needs.

WARNING: The equipment described herein must only be operated or serviced by properly trained individuals, thoroughly familiar with the 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 any responsibility of any kind expressed or implied. Statements or suggestions concerning possible use of GUSMER Equipment are for information only and do not constitute a warranty or representation that any such use is free of patent infringement, and are not recommendations to infringe any patent. The user assumes 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.

DISTRIBUTED BY: POLY-SOURCE INDUSTRIES INC.
#1-19725 Telegraph Trail
Langley, BC
Canada V1M 3E6
Tel: 604-888-3505
Fax: 604-888-3503