

Cementing

ZoneSeal® Injection-Pump Skid Cementing Services— Portable, Automated Pumping System

The pump system used in the ZoneSeal® process has been cementing upgraded. The upgraded ZoneSeal injection-pump skid (Figure 1 and Table 1) is a compact, portable, automated pumping system used primarily with the cementing trailer and nitrogen unit for the ZoneSeal process.

Features

The ZoneSeal injection-pump skid has the following features:

- The main components of the ZoneSeal injection-pump skid are a fully enclosed cabinet, a Unipro II™ controller, a Halliburton turbine flowmeter, and two air-operated diaphragm pumps.

- The top portion of the cabinet contains the Unipro II system, a 1/2-in. Halliburton turbine flowmeter, and assorted manifolding.

The bottom portion of the cabinet contains a hose storage area and the two 1/2-in. air-operated diaphragm pumps. Operating one pump at full flow requires 18.5 scf/min of air at 60 to 100 psi. Flow is controlled by a ball valve on the discharge side of each pump with a pneumatic positioner. The maximum discharge pressure is approximately 10 psi lower than the air-supply pressure. When the pumps are properly calibrated, the system provides pump rates within +/-5% of the target rate.



Figure 1—ZoneSeal injection pump skid

Table 1—ZoneSeal Injection Pump Skid Product Specifications

Part No.	101205292	Weight	~ 400 lb
Dimensions	4 ft wide by 2 ft deep by 4 ft tall	Min. Operating Temperature	32°F
Power Requirements	12 V DC	Flowmeter Range	0.75 to 7.5 gal/min
Maximum Rate	10 gal/min at 0 psi		

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