Reciprocating Compressor/Welder/Generator

CAS35WG

Technical Specifications

Compressed Air Systems

Specifications	CAS35WG
Power Source	PTO driven hydraulic pump(s)
Size	20.62"W x 47.75"L x 24"H (52.38 cm x 121.29 cm x 60.96 cm)
Weight (wet)	500 lb (228 kg)
Compressor	
Rated Capacity	35 cfm (16.5 L/sec)
Max. Compressor Operating Pressure	100 psi (6.9 bar)
Ambient Operating Temperature	0° – 120° F (-17.8° – 48.9° C)
Welder/Generator	
Welding Current	250 amps DC
Strike Voltage	90 volts
Duty Cycle	250 amps @ 85%
Generator Output	5 kW @ 7 hp
Welder Leads	50' (15.2 m)
Hydraulic System	
Hydraulic Flow Required (comp & welder/gen)	10/16 gpm (37.9 L/min x 60.64 m)
Normal Hydraulic Operating Pressure (comp & welder/gen)	1850/2050 psi (127.6 bar/141.3 bar)
Max. Hydraulic Operating Pressure	2400 psi (165.5 bar)
Hydraulic Oil Cooler	Integrated

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IMT CAS35WG Compressor

Standard Configuration

The IMT CAS35WG compressor contains a hydraulically driven 35 cfm (16.5 L/sec) reciprocating air compressor, 250-amp welder and 5000-watt generator. The unit is a self-contained package that mounts to the top of a mechanics truck sidepack in the same fashion as a standalone air compressor.

The unit is designed to operate off of a standard open-center hydraulic system on a mechanics truck. The welder and generator are controlled by a remote panel that can be located in the right front vertical compartment, at the rear of the sidepack, or anywhere the operator needs it.

Performance Data

Air Flow (cfm) @ 100 psi	35 cfm
Input Power (hp)	10.8 (max press)
Compressor Speed (rpm)	1400 (max)
Hydraulic Motor Flow (gpm)	10 (37.9 L/min)
Hydraulic Motor Pressure (psi)	1850 (125.9 bar)

Welder/Generator	250 A/5 kW
Driving Power (hp)	18 (full load)
Hydraulic Motor Speed (rpm)	3600
Hydraulic Motor Flow (gpm)	16 (60.6 L/min)
Hydraulic Motor Pressure (psi)	2050 (141.3 bar)

Control Panel

The control panel for the unit can be remote-mounted on a mechanics truck per the customer requirements. The panel comes standard with 12 ft (3.7 m) of cables to allow the panel to be mounted in various compartments or at the rear of the sidepacks.

Operational Characteristics

The unit is capable of running two functions at one time, based on available hydraulic flow, when combined with a hydraulic crane on a mechanics truck. The combination of functions is as follows:

1. Crane and welder/generator
2. Air compressor and welder/generator

Chassis Compatibility

The unit will work with most chassis applications that allow for a tandem hydraulic pump to be mounted and have the appropriate amount of hydraulic torque and horsepower available. The only chassis applications that will not work with this unit are the following:

- Ford 350/450/550 Super Duty series with an automatic transmission
- Dodge/Sterling 4500/5500 with an automatic transmission in either 4x4 or 4x2 configuration
- Dodge/Sterling 4500/5500 with manual transmission in 4x4 configuration

Hydraulic Oil Reservoir

The unit requires a 30-gal (113.6 L) reservoir at minimum. If the hydraulic system has additional hydraulically operated equipment on the circuit, an additional cooler may be needed.

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