DRESSER Waukesha

P48GSID

STANDARD EQUIPMENT

AIR CLEANER – Dual, two stage, dry panel type with rain shield and service indicator. Engine mounted.

BARRING DEVICE – Manual.

BREATHER – Crankcase, closed type (mounted).

CARBURETOR – Two natural gas Deltec carburetors. Mounted before turbochargers for low fuel pressure. Includes speed switch and solenoid that opens upon cranking and closes when engine rotation ceases.

CONNECTING RODS – Drop forged alloy steel, angle split, serrated joint, oil jet piston pin lubrication.

COOLING SYSTEM – Jacket water: gear driven jacket water pump, thermostatically controlled, full flow bypass type with nominal 180° F (82° C) outlet temperature. 4" ANSI flange connection. Auxiliary water: gear driven pump supplies water to intercooler and oil cooler circuit. 2" special companion flanges supplied.

CRANKCASE – Alloy cast iron, fully ribbed, integral with cylinder frame.

CRANKSHAFT – Drop forged alloy steel, dynamically balanced and fully counterweighted. Viscous vibration dampener

CYLINDERS – Removable wet type liners of centrifugally cast alloy iron.

CYLINDER HEADS – Sixteen interchangeable, valve–in–head type, with two hard faced intake and two hard faced exhaust valves per cylinder. Replaceable intake and exhaust valve seats. Mechanical valve lifters with pivoted roller followers.

EXHAUST SYSTEM - Water cooled exhaust manifolds. Single outlet flange for ANSI 10" 125# flange.

FLYWHEEL – With 165 tooth ring gear (for Delco electric and air/gas starters). Flywheel machined to accept SAE 620D–21, 21" (533 mm) diameter clutch, or SAE J927B–210 flywheel converter.

FLYWHEEL HOUSING – SAE #00, nodular iron housing. Provision for two magnetic pickups. GOVERNOR – Woodward PSG hydraulic.

GUVERNUR – Woodward PSG hydraulic

IGNITION – Waukesha Custom Engine Control electronic ignition system with coils, cables and spark plugs. Non–shielded. 24V DC power required. Includes emergency stop/service engine protection switch for local override of remote controls.

INTERCOOLER - Two pass, fin and tube, air-to-water.

LIFTING EYES – For engine only.

LUBRICATION SYSTEM – Gear type pump, replaceable spin on oil filters and industrial base type oil pan, 113 gallon (428 litres) capacity. Engine mounted shell and tube oil cooler, thermostatic valve for oil temperature control, and prelube pump.

Customer supplied prelube pump motor frame size must conform to frame size 56C and "M" drive configuration.

MOUNTING – Base type oil pan.

PAINT – Oilfield orange.

PISTONS – Aluminum alloy, three ring, with deep central combustion bowl. Oil jet cooled with full floating piston pin. 8.7:1 compression ratio.

TURBOCHARGER - Two exhaust driven, dry type with wastegate. For 1400 - 1800 rpm applications.

VGF[®] Series Gas Engine

830-1175 BHP (619-877 kWb)

Engine shown with options.

Model P48GSID

Turbocharged and Intercooled, Draw-Thru Carburetion, Sixteen Cylinder, Four-Cycle Gas Fueled Engine

SPECIFICATIONS

Cylinders V16 Engine Displacement 2924 cu. in. (48 L) Bore & Stroke

5.98" x 6.5"

8.6:1

Jacket Water

System Capacity

58 gal. (219 L)

(152 x 165 mm)

Compression Ratio

Lube Oil Capacity 113 gal. (428 L) Low Fuel Pressure System 8" WC - 5 psig (According to regulator used -0.02 - 0.34 bar)

Starting System 150 psi max. air/ gas

24V DC Electric

Engine Weight, Dry 14,900 lbs. (6760 kg)

1800 rpm

Cooling Water Flow at
Jacket Water gpm (I/m)1500 rpm
231 (874)
71 (269)

I (874) (269) 87 (329)

POWER RATINGS: P48GSID VGF SERIES GAS ENGINES

		I.C. Water Inlet Temp. °F (°C) (Tcra)	C.R.	Bore & Stroke in. (mm)	Displ. cu. in. (litres)	Brake Horsepower (kWb Output)						
Model	del					1400 rpm I C	150 I	0 rpm C	1600 I) rpm C	1800 I	rpm C
P48	GLD	130° F (54° C)	11:1	5.98 x 6.5 (152 x 165)	2924 (48)	910 830 (679) (619)		885 (660)	1040 (776)	945 (705)		1065 (794)

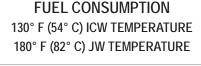
Rating Standard: All models; Ratings are based on ISO 3046/1-1995 with mechanical efficiency of 90% and auxiliary water temperature Tcra (clause 10.1) as specified limited ±10° F (±5° C). Ratings are also valid for SAE J1349, BS5514, DIN6271 and AP17B-11C standard atmospheric conditions.

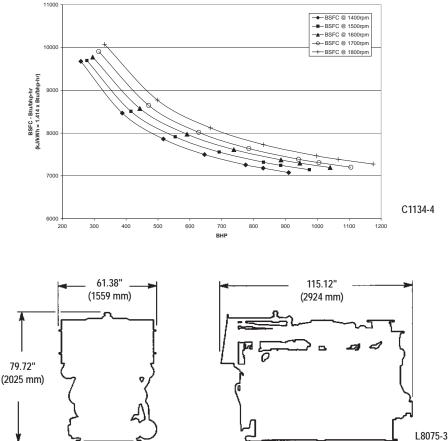
Intermittent Power Rating: The highest load and speed which can be applied in variable speed mechanical system application only. Operation at this rating is limited to a maximum of 3500 hours per year.

ISO Standard Power/Continuous Power Rating: The highest load and speed which can be applied 24 hours a day, seven days a week, 365 days per year except for normal maintenance, it is permissible to operate the engine at up to 10% overload, or maximum load indicated by the intermittent rating, whichever is lower, for two hours in each 24 hour period.

Standby Power Rating: This rating applies to those systems used as a secondary source of electrical power. This rating is the output the system will produce continuously (no overload), 24 hours per day for the duration of the prime power source outage.

All natural gas engine ratings are based on a fuel of 900 Btu/ft³ (35.3 MJ/nm³) SLHV, with a 91 WKI[®]. For conditions or fuels other than standard, consult Dresser Waukesha Application Engineering Department.





Bulletin 7091 1008

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