

WATER COOLED DIESEL ENGINE FOR PUMPSETS

Irrigating Smiles

JIM 1



INDRA MARSHAL POWER PVT. LTD.

IS : 11170-1985



C/M/L : 1926867

COMPACT WITH CAPABILITY

SPECIFICATION

- ▶ **TYPE:**
Vertical, single cylinder, water-cooled, totally enclosed, compression ignition, four-stroke cycle, cold starting diesel engine.
- ▶ **COMBUSTION:**
Open type combustion chamber in an aluminium alloy piston, in combination with long-stem nozzle, resulting in low fuel consumption and easy starting.
- ▶ **FUEL SYSTEM:**
Fuel is supplied to the fuel pump by gravity feed from the fuel tank & through efficient fuel filter.
- ▶ **FUEL TANK CAPACITY:**
6.5 Liters.
- ▶ **LUBRICATION:**
Engine moving parts are lubricated partly by force feed and partly by splash lubrication, By-pass filter is provided to clean the lubricating oil.
- ▶ **LUBE OIL SUMP CAPACITY:**
1.7 Ltr. at higher level mark on dipstick.
- ▶ **COOLING:**
Engine cooling can be arranged for run-through water supply or radiator or cooling tank.
- ▶ **GOVERNING:**
Class 'B1' type.
- ▶ **STARTING:**
Hand start.
- ▶ **ROTATION:**
Standard rotation is clockwise from the flywheel end.
- ▶ **DRIVE:**
Standard power take-off is from the flywheel end.
- ▶ **STANDARD EQUIPMENT:**
Starting handle, exhaust silencer, air cleaner set of tools.

TECHNICAL DATA

Engine model	JIM 1 DLX	
No. of cylinders	1	
Bore x Stroke (mm)	85x80	
Cubic capacity (cm ³)	453	
Compression ratio	18:1	
Rated output kW(hp) as per IS: 10001-1981 and IS: 11170-1985	1500 rpm	3.7 (5.0)
Overall dimensions of of standard engine	length (mm) width (mm) height (mm)	450 430 670
Crankshaft Centre height (mm)	175	
Dry weight of engine with flywheel (kg)	90	

RECOMMENDED PUMPS


Engine Type & bhp/rpm	Suitable Pump		Head Range	Discharge Range
	Suc. x Del. mm x mm	Impeller Dia in mm		
JIM 1 DLX 5/1500	80X65	212	12.0-18.0	22.0-10.8
	80X80	212	12.0-17.5	22.0-13.0

Manufactured By : Indra Marshal Power Pvt. Ltd

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