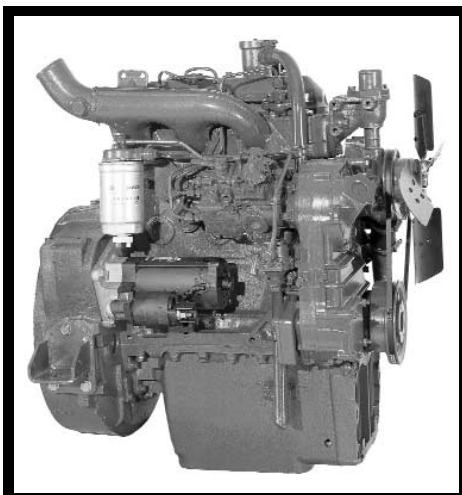


8035U

IVECO *aifo*

**Water-cooled
Direct Injection
Naturally Aspirated Diesel Engines
EPA Certified**

Technical Data Sheet



Photograph is of a 8035U engine and is illustrative purposes only and might not reflect standard build.

Standard Equipment

- Flywheel SAE 10" - *consult LPI for details*
- Flywheel housing with SAE3 flange
- Fuel filter with water separator
- Fuel lift pump
- Governor - fixed or variable speed
- Grey paint finish
- High level oil filler
- Inlet & exhaust manifolds
- Lubricating oil filter
- Operator's handbook
- Self-vent fuel system
- Water circulation pump & thermostat

Accessories

- Air cleaner - heavy duty
- Alternative speed and stop/run control devices
- Engine protection switches & solenoids
- Exhaust flanges or mufflers
- Fan drive guards
- Flywheel end drives, shaft extensions and couplings
- Gauges - supplied loose
- Gear end drives
- High level bearers
- Hydraulic pump drives - gear end and/or flywheel end
- Radiators - mounted with cooling fans
- SAE overcenter PTO industrial clutches
- Start panels - mounted or loose
- 12 volt starter motor & 45 amp battery charging alternator

Additional accessories available - Consult LPI

Product Support

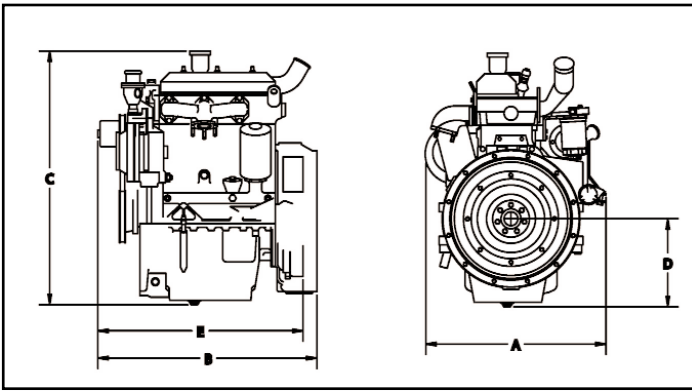
- Recommended spares kits
- Special service tools
- Workshop Manual
- Master parts manual

General Data

General Data		8035U
Aspiration:		Naturally Aspirated
Bore:	mm	104.0
	inch	4.09
Stroke	mm	115.0
	inch	4.53
Cylinder Capacity:	liter	2.9
	in ³	177.0
Lubricating Oil Capacity: (including filter)	liter	7.7
	U.S. quarts	8.2
Fuel Consumption @2500 r/min: (75% Load)	l/h	7.4
	U.S. gal/h	1.9
Specific Fuel Consumption: (full load @ max. torque speed - 5% tol.)	g/kW h	223.0
	lb/hp h	0.360
Angles of inclination: (any direction)	Permanent	30°
Minimum Idling Speed:	r/min	650
Combustion Air Required @2500 r/min.	l/s	58.5
	ft ³ /min	124.0
Dry Weight (including flywheel)	kg	335.0
	lb	737.0

Electrical System

Electrical System		8035U
Alternator Output:	amp	45
Starter Motor Power:	kW	3.0



Principal Dimensions		
8035U		
	mm	inch
A	596.9	23.5
B	726.4	28.6
C	840.7	33.1
D	292.1	11.5
E	680.7	26.8

Power Output		
Engine Speed r/min	Continuous Power	Intermittent Power
	kW/hp	kW/hp
1800	31.0/42.0	34.0/46.0
2000	33.0/45.0	37.0/50.0
2500	37.0/50.0	42.0/56.0

Fan power to be deducted (normally 6%).

Torque - Variable Speed	
Engine Speed r/min	Intermittent Power Nm/ft lbs
1800	192/142
2000	185/136
2500	158/117

Peak torque 200 Nm (147 ft lbs) at 1400 rpm.

For further information, contact:

Engine Data

Construction:

Ribbed, thin-wall cast iron crankcase for quiet operation. Extra large bearing surfaces for low bearing loads and long life.

Rotation:

Counter-clockwise, looking at the flywheel end.

Cooling:

Water circulation pump with thermostat. Engine includes an integrated bypass system and is designed for ambients up to 52°C (125°F).

Lubrication:

Designed to run at high angles of inclination and includes a full flow spin-on cartridge filter. Lubricating oil pump is a gear-driven, positive displacement design. Oil service interval is 250 hours.

Fuel & Combustion Systems:

Direct injection combustion system for easy starting and low fuel consumption. Cylinder head is a cross-flow, high swirl design to increase efficiency of combustion. Self-vent fuel system eliminates the need for bleeding.

Drives:

Full power is available at the flywheel end for axial or radial drives. Limited power drives are available for mounting at the gear end.

The information in this data sheet is of a general nature and does not form part of any contract or warranty. We have made efforts to ensure that the information is accurate but reserve the right to amend specification and information without notice or any obligation or liability. The set illustrated is not necessarily the standard build.

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