

914. The engine for agricultural equipment.

44 - 141 kW at 2500 rpm



These are the characteristics of the 914:

Air-cooled 3, 4, 5, 6-cylinder naturally aspirated in-line-engines.
3, 4, 6-cylinder 914 turbocharged. 6-cylinder also charge air cooled.
Advanced injection and combustion system.
Electronic governor on request.
100% PTO at flywheel and damper end.
Auxiliary PTOs for hydraulic pumps and compressor possible.
Sophisticated modular system with high degree of parts commonality.

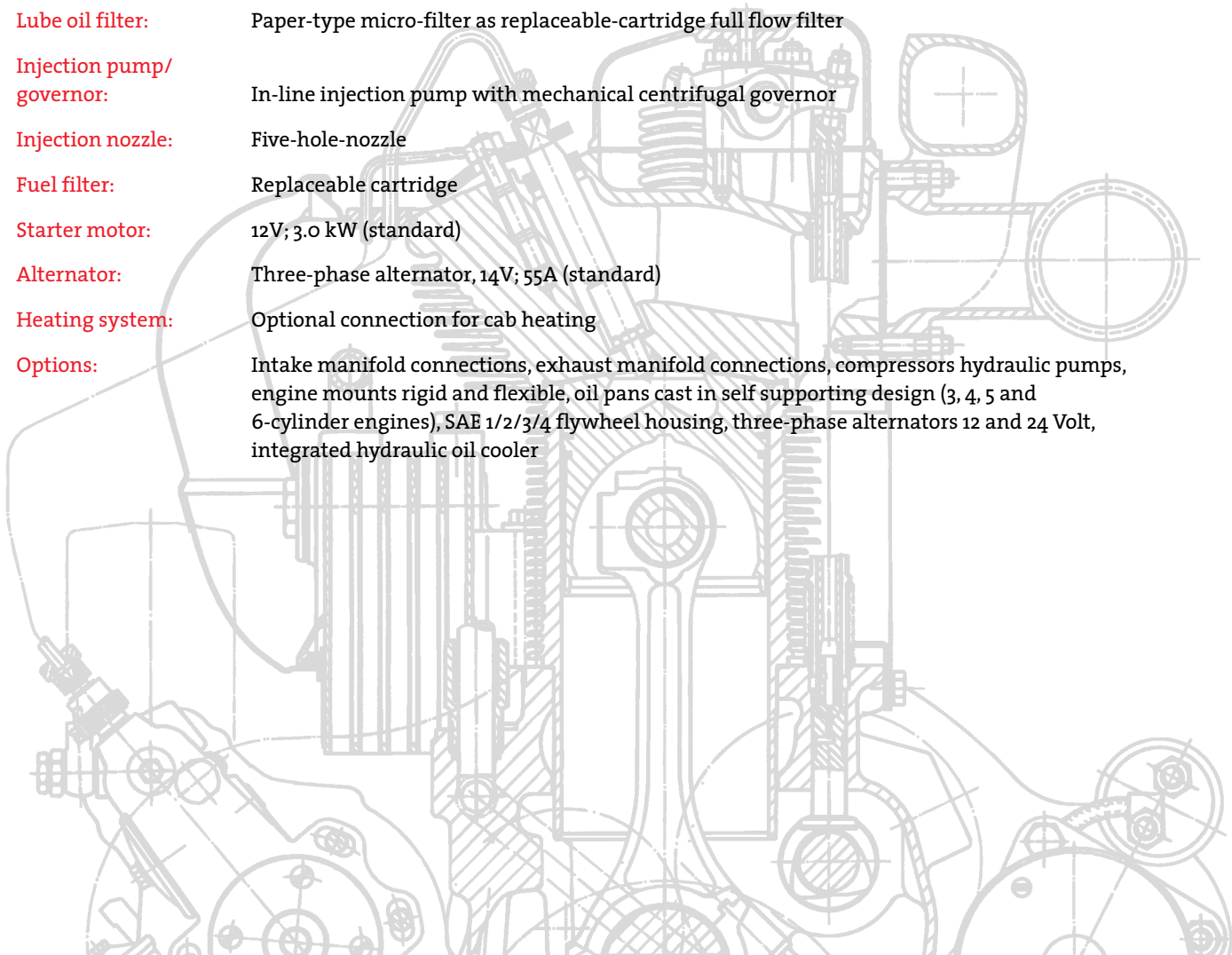


Your benefits:

- ▶ High reliability also in extreme applications.
- ▶ High economy: simple and cost effective installation, long service intervals.
- ▶ Low noise emission reduces insulation requirements and increases driving comfort.
- ▶ Fast response to load changes.
- ▶ Low exhaust emissions, meets exhaust regulations RL 2000/25/EG, Step II + USA Nonroad CFR 40, Part 89, Tier II.

► Standard specification

Cooling system:	Air-cooled with integrated axial-flow blower
Crankcase:	Grey cast iron
Cylinder head:	Aluminium single cylinder heads
Valve arrangement/ timing:	Overhead valves in the cylinder head, one inlet and one exhaust valve per cylinder, actuated via tappets, push-rods and rocker arms, driven by gears and camshaft
Piston:	Three-ring piston: two compression rings and one oil scraper ring
Piston cooling:	Oil spray via nozzle
Connecting rod:	Drop-forged steel rod, diagonally split
Crankshaft:	Nodular cast iron with integrated counterweights
Camshaft:	Steel, seated in bi-metal bearing on the blower side
Lubrication system:	Forced-feed circulation lubrication with rotary pump which feeds both lubricating and heating systems (if heating is fitted)
Engine oil cooler:	Integrated aluminium cooler
Oil cooler thermostat:	Oil cooler flow thermostatically controlled on engines with heating system
Lube oil filter:	Paper-type micro-filter as replaceable-cartridge full flow filter
Injection pump/ governor:	In-line injection pump with mechanical centrifugal governor
Injection nozzle:	Five-hole-nozzle
Fuel filter:	Replaceable cartridge
Starter motor:	12V; 3.0 kW (standard)
Alternator:	Three-phase alternator, 14V; 55A (standard)
Heating system:	Optional connection for cab heating
Options:	Intake manifold connections, exhaust manifold connections, compressors hydraulic pumps, engine mounts rigid and flexible, oil pans cast in self supporting design (3, 4, 5 and 6-cylinder engines), SAE 1/2/3/4 flywheel housing, three-phase alternators 12 and 24 Volt, integrated hydraulic oil cooler



► Technical data

Engine type		F3L914	F4L914	F5L914	F6L914
Number of cylinders		3	4	5	6
Bore/stroke	mm	102/132	102/132	102/132	102/132
Displacement	l	3.236	4.314	5.393	6.472
Compression ratio		20	20	20	20
Max. rated speed	rpm	2500	2500	2500	2500
Mean piston speed	m/s	11	11	11	11

Power ratings¹⁾

Power ratings to ISO 3046/1	kW net	44,0	59,0	72,0	89,0
	kW gross	46,1	61,4	74,9	92,0
At speed	rpm	2500	2500	2500	2500
Mean effective pressure	bar	6.53	6.56	6.41	6.60
Max. torque	Nm	202	270	333	400
At speed	rpm	1500	1500	1500	1500
Minimum idle speed	rpm	650	650	650	650
Specific fuel consumption ²⁾	g/kWh	215	215	215	220
Weight to DIN 70020, part 7A ³⁾	kg	296	363	420	468

1) Power ratings without deduction fan power requirement, incl. cooling system.

2) At optimal operating point without cooling fan, based on diesel fuel with a specific gravity of 0.835 kg/dm³ at 15°C.

3) Without starter motor/alternator, radiator and liquids, but with flywheel and flywheel housing and complete integrated cooling system. Characteristics based on max. possible torque.

The values given in this data sheet are for information purposes and are not binding.
The information given in the offer is decisive.

BF3L914	BF4L914	BF6L914	BF6L914C
3	4	6	6
102/132	102/132	102/132	102/132
3.236	4.314	6.472	6.472
18	18	18	18
2500	2500	2500	2500
11	11	11	11

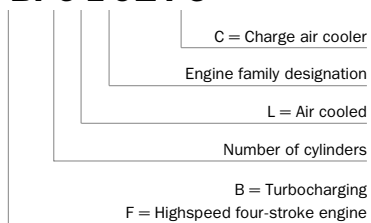
54.0	72.0	110.0	141.0
56.4	74.9	115.6	147.2
2500	2500	2500	2500
8.01	8.01	8.16	10.46

257	355	550	700
1600	1600	1600	1600

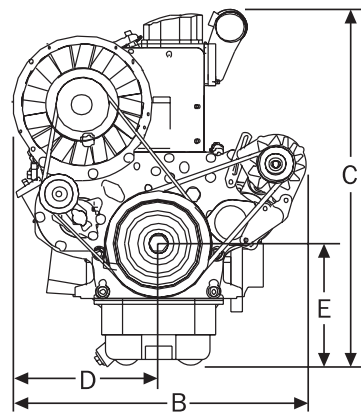
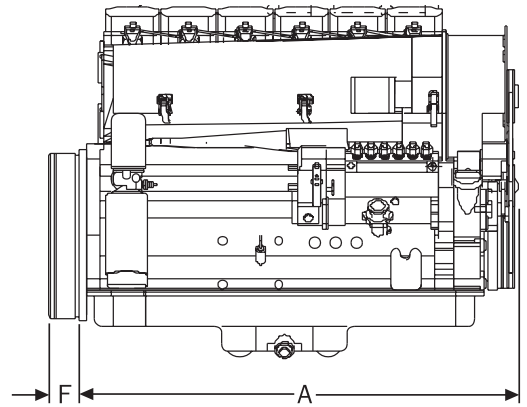
650	650	650	650
220	220	220	210
331	406	523	548

► Model designation

BF6 L 914 C

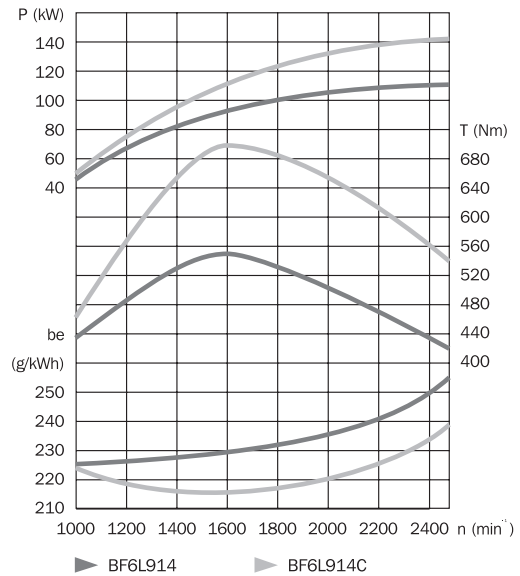
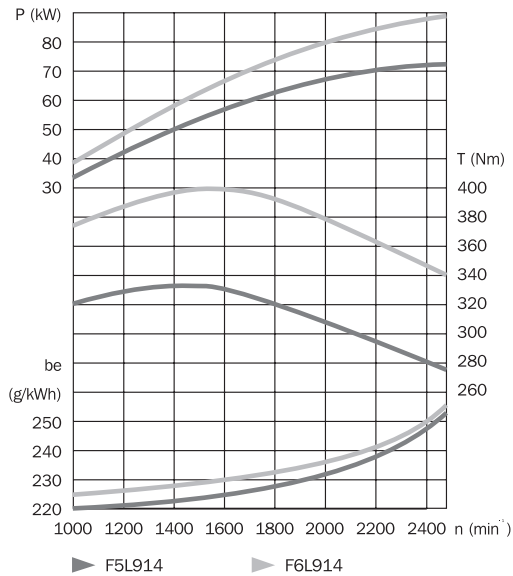
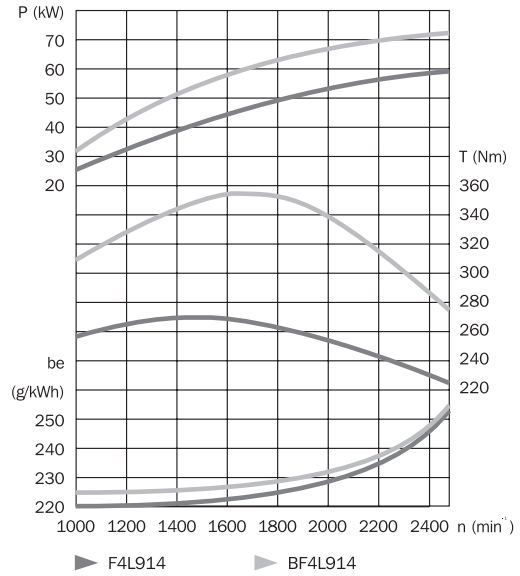
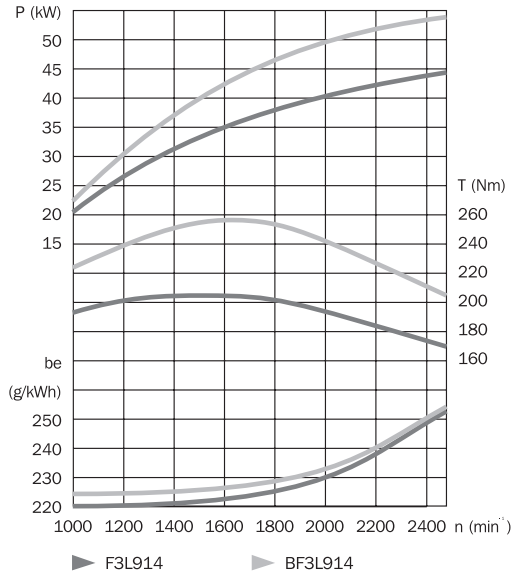


► Dimensions



Engine type		A	B	C	D	E	F
F3L914	mm	595	680	800	330	270	108
F4L914	mm	725	680	800	330	270	88
F5L914	mm	870	680	835	330	305	88
F6L914	mm	1000	680	810	330	280	88
BF3L914	mm	595	690	965	340	345	108
BF4L914	mm	725	690	880	340	350	88
BF6L914	mm	1040	710	920	360	340	88
BF6L914C	mm	1050	710	995	360	340	88

► Standard engines



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