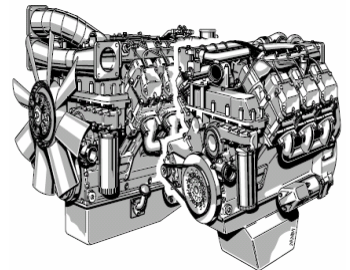
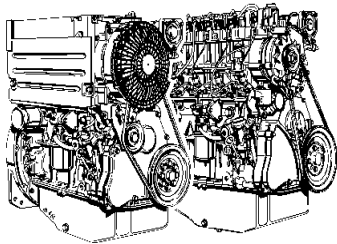
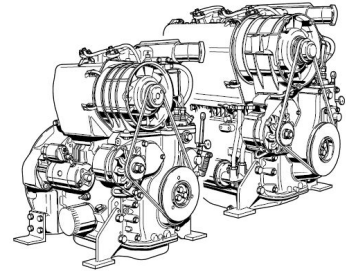
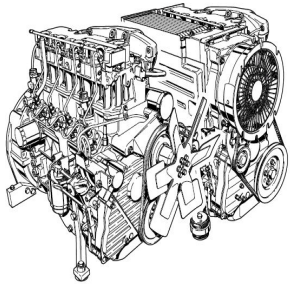
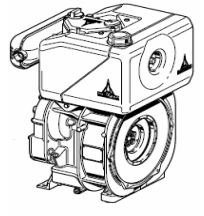
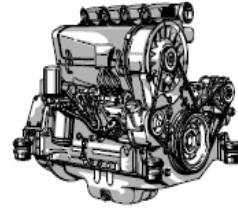
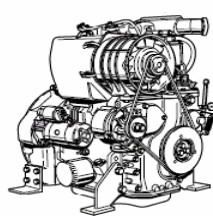
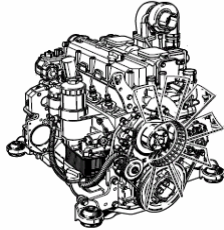
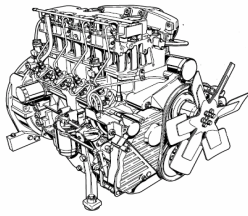
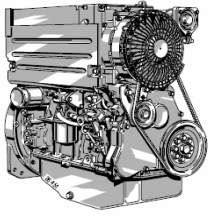
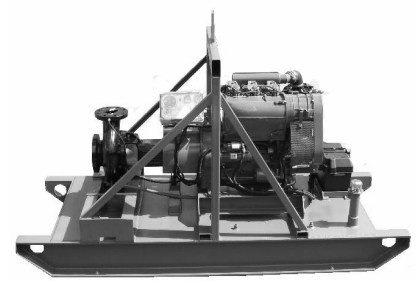
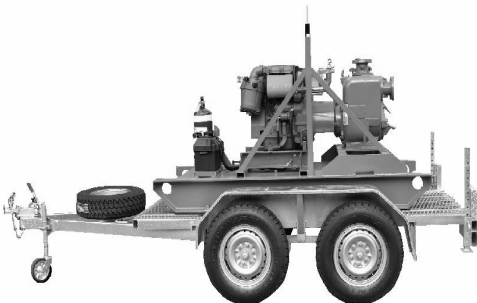


DEUTZ POWER PRODUCTS



Price List
January 2008

Air cooled & Liquid cooled Engines

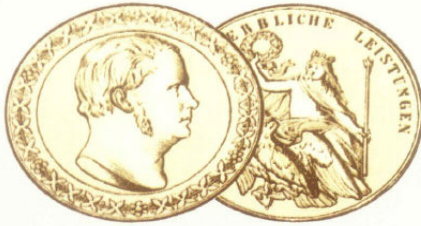


DEUTZ Customised Solutions

We Love Engines



The engine company.



Goldene Staats-Medaille
Düsseldorf 1880.

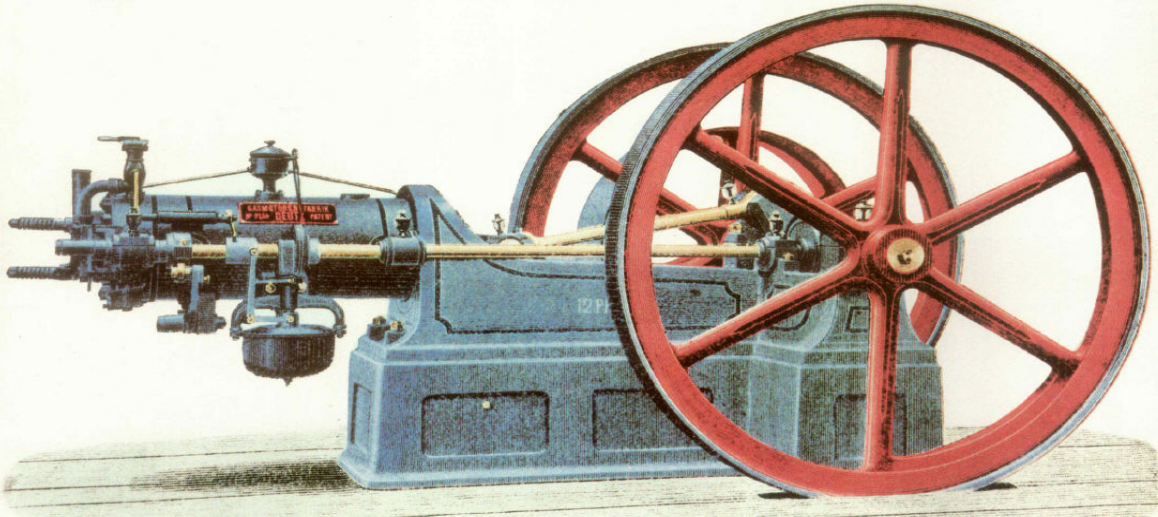
Ehrendiplom
(höchste Auszeichnung)
Weltausstellung
Antwerpen 1885.



Gasmotoren-Fabrik Deutz

DEUTZ

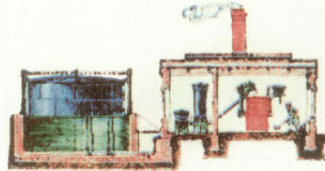
bei
KÖLN.



Otto's neuer Motor

(durch Patente geschützt)

betrieben mit
Oelgas.



Oelgasfabrik System Hirzel.

betrieben mit
Oelgas.

PROGRESS WITH TRADITION

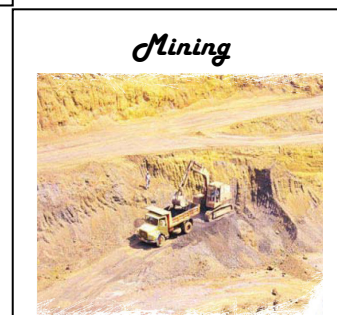
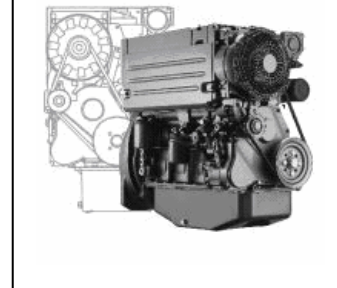
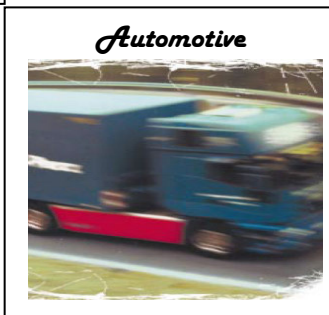
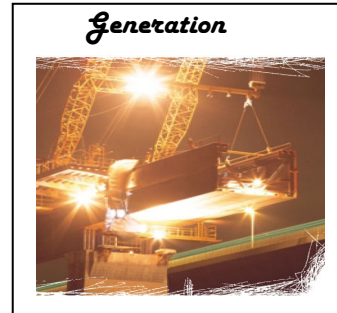
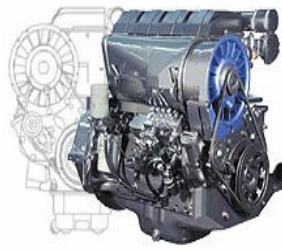
Practically all engines can trace their origin to the first DEUTZ. From his 1867 "Atmospheric Gas Power Machine" the company founder, Nicolaus August Otto, developed the first series 4 cycle engine. Its basic concept has left its imprint on the engine industry to this present day.

As far as DEUTZ is concerned, each modern DEUTZ engine symbolizes Otto's legacy, his progressive thinking and his proverbial demand for quality.

Diesel Parts & Service Pty. Ltd.
Phone: 07 32681062 Fax: 07 8681330



Air cooled engines



We move your world.





The engine company.

DEUTZ AIR COOLED ENGINES (DIRECT INJECTION)

AVERAGE FUEL CONSUMPTION COOLING & COMBUSTION AIR EXHAUST GAS VOLUME

ENGINE TYPE	NET ENGINE OUTPUT TO ISO 3046/1 "IFN" RATING			FUEL COMSUMP. @ 80% LOAD	COOLING AIR VOLUME @ 100%	COMBUST. AIR VOLUME @ 100%	EXHAUST GAS VOLUME @ 100% LOAD	EXHAUST FLANGE DIA
	RPM	KW	HP	LTR/H	m ³ /h	m ³ /h	m ³ /h	MM
D909L1	1500	5.7	7.5	1.3	141	32.2	33.7	N/A
	2300	8.2	11.8	1.9	267	49.4	51.5	
	3000	10.3	14.3	2.5	381	64.0	66.7	
F2L2011	2300	20.1	27.0	4.6	1194	90.0	245.0	N/A
	2800	22.5	31.0	5.6	1433	110.0	300.0	
F3L2011	2300	29.3	42.0	6.7	1205	135.0	365.0	N/A
	2800	34.0	48.5	8.3	1466	165.0	450.0	
F4L2011	2300	42.0	57.0	9.5	1616	178.0	485.0	N/A
	2800	47.8	65.0	11.6	1967	220.0	585.0	
BF3L2011	2300	38.9	53.0	8.0	1780	205.0	560.0	N/A
	2800	44.9	61.0	10.6	2170	270.0	750.0	
BF4L2011	2300	50.0	68.0	11.1	1930	265.0	730.0	N/A
	2800	58.1	79.0	14.1	2350	345.0	970.0	
F3L912	1500	25.0	34.0	5.2	1565	115.0	317.0	N/A
	1800	29.0	40.0	6.1	1875	137.0	380.0	
	2300	36.0	49.0	8.1	2400	176.0	488.0	
F4L912	1500	34.0	46.0	7.0	1810	158.0	422.0	N/A
	1800	40.0	54.0	8.4	2170	183.0	507.0	
	2300	49.0	66.0	11.0	2770	235.0	652.0	
F5L912	1500	42.0	57.0	8.7	2630	192.0	528.0	N/A
	1800	50.0	68.0	10.5	3155	228.0	633.0	
	2300	61.0	83.0	13.6	4030	293.0	813.0	
F6L912	1500	51.0	69.0	10.6	2610	230.0	633.0	N/A
	1800	60.0	82.0	12.6	3135	274.0	760.0	
	2300	74.0	100.0	16.5	4005	352.0	976.0	
F6L913	1500	55.0	75.0	11.3	2823	248.0	633.0	N/A
	1800	65.0	88.0	14.1	3388	298.0	760.0	
	2300	79.0	107.0	18.4	4329	380.0	976.0	
BF4L913	1500	52.0	71.0	10.2	2570	205.0	556.0	N/A
	1800	61.0	83.0	12.2	3085	280.0	742.0	
	2300	74.0	101.0	15.8	3940	380.0	1045.0	
BF6L913	1500	74.0	100.0	15.7	3655	335.0	920.0	81.0
	1800	88.0	119.0	18.8	4390	455.0	1220.0	
	2300	104.0	142.0	24.5	5605	625.0	1700.0	
BF6L913C	1500	85.0	116.0	16.8	4475	400.0	1040.0	81.0
	1800	105.0	143.0	20.9	5370	530.0	1450.0	
	2300	125.0	170.0	26.9	6865	725.0	1985.0	
F3L914	1500	30.5	41.5	5.6	1650	131.0	358.0	
	1800	35.5	48.3	6.6	1980	157.0	426.0	
	2300	42.5	57.8	8.5	2750	201.0	550.0	
F4L914	1500	40.5	55.1	7.5	1904	174.0	476.0	
	1800	47.5	64.6	8.9	2285	209.0	572.0	
	2300	57.0	77.5	11.4	2920	267.0	729.0	
F5L914	1500	51.0	69.4	9.4	2630	218.0	596.0	
	1800	59.0	80.2	11.0	3155	262.0	710.0	
	2300	71.5	97.2	14.3	4030	334.0	917.0	
F6L914	1500	61.5	83.6	11.3	2823	262.0	715.0	
	1800	71.0	96.6	13.2	3388	315.0	853.0	
	2300	86.0	117.0	17.2	4329	401.0	1100.0	
BF4L914	1500	52.0	61.0	9.8	2570	216.0	607.0	
	1800	61.0	83.0	11.5	3085	295.0	809.0	
	2300	73.0	99.3	14.6	3940	400.0	1140.0	
BF6L914	1500	85.0	115.6	15.8	3655	353.0	1004.0	80.0
	1800	101.0	136.4	18.9	4390	479.0	1331.0	
	2300	120.0	163.2	24.7	5605	658.0	1855.0	
BF6L914C	1500	85.0	116.0	16.8	4475	353.0	1135.0	
	1800	105.0	143.0	20.7	5370	479.0	1582.0	
	2300	125.0	170.0	26.2	6865	658.0	2165.0	

Note: N/A = not available
 Calorific value of fuel 41.900 Kj/Kg
 Specific gravity of fuel 830 gr/ltr
 Exhaust gas volume behind manifold at actual temperature

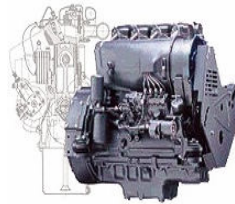
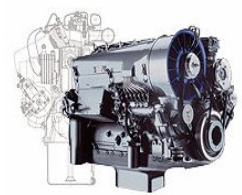
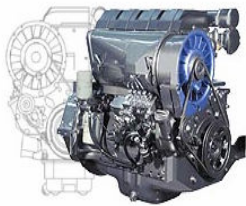
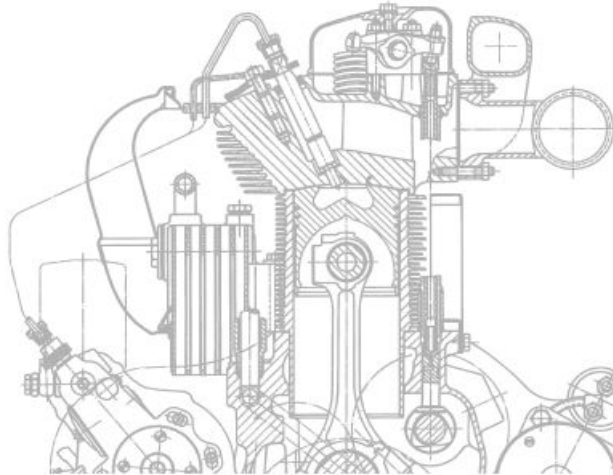
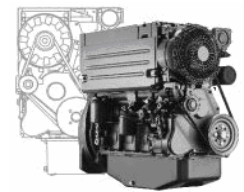


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AIR COOLED ENGINE SPECIFICATIONS

909 Series

910 Series

912 Series

913 Series

914 Series

2011 Series


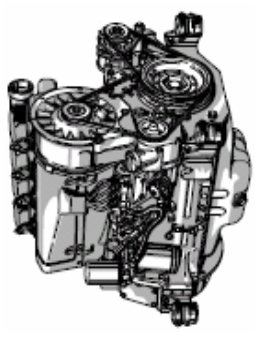
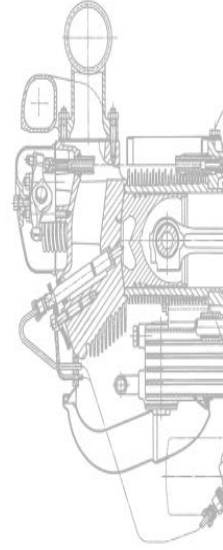
SPECIFICATIONS

Engine	Cyl	Type	Intermittent kW / RPM	Continuous kW / RPM	Max Torque Nm	Bore mm	Stroke mm	Disp Ltrs	Max Speed rpm	Minimum Idle speed rpm
D909L1	1	NA	10.5 / 3000	9.4 / 3000	38 / 2000	95	100	0.7	3000	850
D910L2	2	NA	25.5 / 3000	22.5 / 3000	90 / 1900	100	105	1.6	3000	650
D910L3	3	NA	38.8 / 3000	34.9 / 3000	135 / 1900	100	105	2.5	3000	650
F2L2011	2	NA	22.5 / 2800	21.8 / 3000	78 / 1750	94	112	1.55	2800	900
F3L2011	3	NA	35.8 / 2800	34.0 / 3000	130 / 1700	94	112	2.33	2800	900
F4L2011	4	NA	47.8 / 2800	45.4 / 2800	180 / 1700	94	112	3.11	2800	900
BF3L2011	3	T	44.9 / 2800	42.6 / 2800	172 / 1700	94	112	2.33	2800	900
BF4L2011	4	T	58.1 / 2800	55.1 / 2800	229 / 1700	94	112	3.11	2800	900
F3L912	3	NA	38.0 / 2500	35.0 / 2300	160 / 1500	100	120	2.83	2500	650
F4L912	4	NA	51.0 / 2500	46.0 / 2300	215 / 1500	100	120	3.77	2500	650
BF4L913	4	T	72.0 / 2500	66.0 / 2300	316 / 1550	102	125	4.1	2500	650
F5L912	5	NA	65.0 / 2500	61.0 / 2300	290 / 1500	100	120	4.71	2500	650
F6L912	6	NA	78.0 / 2500	74.0 / 2300	320 / 1500	100	120	5.66	2500	650
F3L913	3	NA	42.0 / 2500	39.0 / 2300	175 / 1500	102	125	3.1	2500	650
F4L913	4	NA	56.0 / 2500	53.0 / 2300	240 / 1500	102	125	4.1	2500	650
F6L913	6	NA	85.0 / 2500	79.0 / 2300	350 / 1500	102	125	6.12	2500	650
BF6L913	6	T	109.0 / 2500	99.0 / 2300	480 / 1500	102	135	6.12	2500	650
BF6L913C	6	T	131.0 / 2500	118.0 / 2300	580 / 1550	102	135	6.12	2500	650
F3L914	3	NA	45.5 / 2500	42.5 / 2300	202 / 1500	102	135	3.2	2500	650
F4L914	4	NA	60.5 / 2500	57.0 / 2300	270 / 1500	102	135	4.3	2500	650
F6L914	6	NA	91.0 / 2500	86.0 / 2300	400 / 1500	102	135	6.5	2500	650
BF6L914	6	T	125.0 / 2500	118.0 / 2300	590 / 1600	102	135	6.5	2500	650

AIR COOLED INTERMITTENT RATING



MODEL	1500		1800		2000		2150		2300		2500		2600		2800		3000	
	kW	hp	kW	hp	kW	hp	kW	hp	kW	hp	kW	hp	kW	hp	kW	hp	kW	hp
D909L1	5.5	7.4	6.7	9.0	7.6	10.2	8.1	10.9	8.6	11.6	9.3	12.5	9.6	12.8	10.1	13.5	10.5	14.1
D910L2	14.0	19.1	17.2	23.4	18.8	25.6	20.2	27.5	21.6	29.4	23.3	31.7	23.9	32.0	25.0	34.0	25.5	34.7
D910L3	20.5	27.9	25.5	34.7	28.8	39.2	30.7	41.6	32.7	44.1	35.0	47.6	35.9	48.8	37.7	51.3	38.8	52.8
F2L2011	■	■	■	■	17.7	24.1	18.9	25.7	20.1	27.3	21.3	29.0	22.0	29.9	22.5	31.3	■	■
F3L2011	■	■	■	■	27.2	37.0	29.0	39.5	30.9	42.0	32.8	44.6	33.9	46.1	35.8	48.7	■	■
F4L2011	■	■	■	■	37.0	50.3	39.5	53.7	42.0	57.1	44.0	59.8	45.2	61.5	47.8	65.0	■	■
BF3L2011	■	■	■	■	34.6	47.1	36.7	50.0	38.9	52.9	41.7	56.7	42.0	57.1	44.9	61.1	■	■
BF4L2011	■	■	■	■	45.0	61.2	47.5	64.6	50.0	68.0	53.5	72.8	54.9	74.7	58.1	79.0	■	■
F3L912	25.0	34.0	29.0	39.0	32.0	44.0	35.0	48.0	36.0	49.0	38.0	52.0	■	■	■	■	■	■
F4L912	34.0	46.0	40.0	54.0	44.0	60.0	46.0	63.0	49.0	67.0	51.0	69.0	■	■	■	■	■	■
F5L912	42.0	57.0	50.0	68.0	55.0	75.0	58.0	79.0	61.0	83.0	65.0	88.0	■	■	■	■	■	■
F6L912	51.0	69.0	60.0	82.0	66.0	90.0	70.0	95.0	74.0	101.0	78.0	106.0	■	■	■	■	■	■
F3L913	27.0	37.0	32.0	43.0	35.0	48.0	37.0	50.0	39.0	53.0	42.0	57.0	■	■	■	■	■	■
F4L913	37.0	50.0	43.0	58.0	48.0	65.0	50.0	68.0	53.0	72.0	56.0	76.0	■	■	■	■	■	■
F6L913	55.0	75.0	65.0	88.0	72.0	98.0	76.0	103.0	79.0	107.0	85.0	115.0	■	■	■	■	■	■
BF4L913	49.0	66.6	58.0	78.9	64.0	87.0	67.0	91.1	69.0	93.8	72.0	97.9	■	■	■	■	■	■
BF6L913	74.0	101.0	88.0	120.0	96.0	131.0	100.0	136.0	104.0	141.0	109.0	148.0	■	■	■	■	■	■
BF6L913C	85.0	116.0	105.0	143.0	114.0	155.0	118.0	160.0	125.0	170.0	131.0	178.0	■	■	■	■	■	■
F3L914	30.5	41.5	35.5	48.3	38.5	52.4	40.5	55.1	42.5	57.8	45.5	61.9	■	■	■	■	■	■
F4L914	40.5	55.1	47.5	64.6	51.0	59.4	54.0	73.4	57.0	77.5	60.5	82.3	■	■	■	■	■	■
F5L914	51.0	69.4	59.0	80.2	64.5	87.7	68.0	92.5	71.5	97.2	76.0	103.4	■	■	■	■	■	■
F6L914	61.5	83.6	71.0	96.6	77.5	105.4	81.5	110.8	86.0	117.0	91.0	123.8	■	■	■	■	■	■
BF4L914	52.0	70.7	61.0	83.0	68.0	92.5	71.0	96.6	73.0	99.3	76.0	103.4	■	■	■	■	■	■
BF6L914	85.0	115.6	101.0	136.4	110.0	149.6	115.0	156.4	120.0	163.2	125.0	170.0	■	■	■	■	■	■
BF6L914C	85.0	116.0	105.0	143.0	114.0	155.0	118.0	160.0	125.0	170.0	131.0	178.0	■	■	■	■	■	■

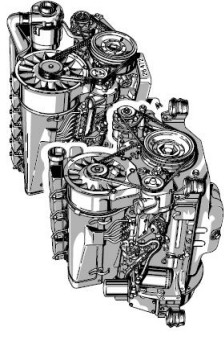
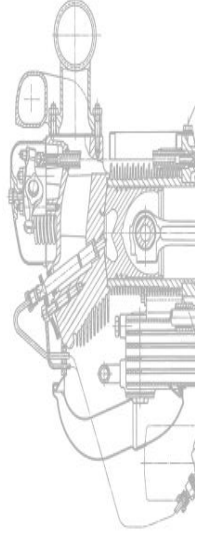


Power standard for industrial engines ISO 3046-1
 Ambient barometric pressure total: 100kPa
 Ambient air temperature: 25°C
 Relative humidity: 30%

AIR COOLED CONTINUOUS RATING



MODEL	1500		1800		2000		2150		2300		2500		2600		2800		3000	
	kW	hp	kW	hp	kW	hp	kW	hp	kW	hp	kW	hp	kW	hp	kW	hp	kW	hp
D909L1	4.9	6.6	6.0	8.1	6.8	9.1	7.2	9.6	7.7	10.3	8.3	11.2	8.5	11.3	9.0	12.1	9.4	12.7
D910L2	12.6	17.1	15.4	21.0	16.9	23.0	18.1	24.7	19.4	26.4	20.9	28.5	21.4	28.7	22.5	30.6	22.9	31.2
D910L3	18.4	25.1	22.9	31.2	25.9	35.2	27.6	37.4	29.4	39.6	31.5	42.8	32.3	43.3	33.9	46.1	34.9	47.5
F2L2011	12.0	16.3	15.4	20.9	16.8	22.8	17.9	24.4	19.1	26.0	20.2	27.5	20.9	28.4	21.8	29.6	■	■
F3L2011	18.7	25.4	23.6	32.1	25.8	35.1	27.5	37.5	29.3	39.9	31.1	42.3	32.2	43.8	34.0	46.2	■	■
F4L2011	25.0	34.0	32.0	43.5	35.1	47.7	37.5	51.0	39.9	54.3	41.8	56.9	42.9	58.3	45.4	61.7	■	■
BF3L2011	24.7	33.6	30.0	40.8	32.8	44.6	34.8	47.4	36.9	50.2	39.6	53.9	39.9	54.3	42.6	57.9	■	■
BF4L2011	33.0	44.9	41.0	55.8	42.7	58.1	45.1	61.3	47.5	64.6	50.8	69.1	52.1	70.9	55.1	74.9	■	■
F3L912	24.0	33.0	28.0	38.0	30.0	41.0	32.0	44.0	35.0	48.0	■	■	■	■	■	■	■	■
F4L912	32.0	44.0	38.0	52.0	41.0	56.0	44.0	60.0	46.0	63.0	■	■	■	■	■	■	■	■
F5L912	40.0	54.0	48.0	65.0	52.0	71.0	55.0	75.0	58.0	79.0	■	■	■	■	■	■	■	■
F6L912	48.0	65.0	57.0	77.0	63.0	86.0	66.0	90.0	70.0	95.0	■	■	■	■	■	■	■	■
F3L913	25.0	34.0	30.0	41.0	33.0	45.0	35.0	48.0	37.0	50.0	■	■	■	■	■	■	■	■
F4L913	34.0	46.0	41.0	56.0	45.0	61.0	48.0	65.0	50.0	68.0	■	■	■	■	■	■	■	■
F6L913	51.0	69.0	63.0	86.0	68.0	93.0	72.0	98.0	76.0	103.0	■	■	■	■	■	■	■	■
BF4L913	47.0	63.9	55.0	74.8	60.0	81.6	64.0	87.0	66.0	89.8	■	■	■	■	■	■	■	■
BF6L913	70.0	95.0	82.0	111.0	90.0	122.0	96.0	131.0	99.0	135.0	■	■	■	■	■	■	■	■
BF6L913C	81.0	110.0	99.0	135.0	108.0	147.0	112.0	152.0	118.0	160.0	■	■	■	■	■	■	■	■
F3L914	29.0	39.5	33.5	45.6	36.5	49.6	38.5	52.4	40.5	55.1	■	■	■	■	■	■	■	■
F4L914	38.5	52.4	45.0	61.2	48.5	66.0	51.0	69.4	54.0	73.4	■	■	■	■	■	■	■	■
F5L914	48.5	66.0	56.0	76.2	61.0	83.0	64.0	87.0	68.0	92.5	■	■	■	■	■	■	■	■
F6L914	58.5	79.6	67.5	91.8	73.0	99.3	77.5	105.4	81.5	110.8	■	■	■	■	■	■	■	■
BF4L914	50.0	68.0	58.0	78.9	63.5	86.4	68.0	92.5	70.0	95.2	■	■	■	■	■	■	■	■
BF6L914	81.0	110.2	95.0	129.2	104.0	141.4	110.0	149.6	114.0	155.0	■	■	■	■	■	■	■	■
BF6L914C	81.0	110.0	99.0	135.0	108.0	147.0	112.0	152.0	118.0	160.0	■	■	■	■	■	■	■	■



Power standard for industrial engines ISO 3046-1
 Ambient barometric pressure total: 100kPa
 Ambient air temperature: 25°C
 Relative humidity: 30%

DEUTZ DIESEL ENGINES – AIR COOLED AUSTRALIAN STANDARD SCOPE

Prices based on Australian Standard Scope of Supply

Series	Model	Cyl	Continuous kW / RPM	Housing & flywheel	Weight kg	Dimension mm L x W x H	List Price
900 Series							
Manual start	D909L1	1	9.4 / 3000		112	453 x 400 x 665	\$ 3550
Electric start	D909L1	1	9.4 / 3000		120	453 x 400 x 665	\$ 3810
	D910L2	2	22.9 / 3000	SAE 4 x 8"	185	540 x 502 x 687	\$ 5980
	D910L3	3	34.9 / 3000	SAE 4 x 8"	229	708 x 522 x 689	\$ 7210
2011 Series							
	F2L2011	2	21.8 / 2800	SAE 4 x 8/10"	213	540 x 451 x 683	\$ 7580
	F3L2011	3	34.0 / 2800	SAE 4 x 8/10"	252	652 x 495 x 678	\$ 8460
	F4L2011	4	45.4 / 2800	SAE 4 x 8/10"	295	463 x 451 x 703	\$ 10090
	BF3L2011	3	42.6 / 2800	SAE 4 x 8/10"	261	652 x 495 x 678	\$ 10640
	BF4L2011	4	55.1 / 2800	SAE 4 x 8/10"	307	763 x 495 x 703	\$ 11030
	F2L2011 Whisper	2	21.8 / 2800	SAE 4 x 8/10"	247	558 x 611 x 750	\$ 9550
	F3L2011 Whisper	3	34.0 / 2800	SAE 4 x 8/10"	288	669 x 611 x 750	\$ 10590
	F4L2011 Whisper	4	45.4 / 2800	SAE 4 x 8/10"	295	780 x 611 x 770	\$ 12390
	BF4L2011 Whisper	4	55.1 / 2800	SAE 4 x 8/10"	392	780 x 611 x 770	\$ 13330
912 Series							
	F3L912	3	35.0 / 2300	SAE 3 x 8/10"	270	589 x 679 x 796	\$ 8070
	F4L912	4	46.0 / 2300	SAE 3 x 8/10"	300	719 x 679 x 796	\$ 10390
	F5L912 P/P	5	61.0 / 2300	SAE 3 x 10/11.5"	505	988 x 679 x 838	\$ 12540
	F6L912 P/P	6	74.0 / 2300	SAE 3 x 10/11.5"	545	1118 x 679 x 808	\$ 13270
913 Series							
	BF4L913	4	66.0 / 2300	SAE 3 x 10/11.5"	430	898 x 679 x 800	\$ 14270
	BF6L913	6	99.0 / 2300	SAE 3 x 10/11.5"	485	1108 x 714 x 876	\$ 16710
	BF6L913C (*)	6	118.0 / 2300	SAE 3 x 10/11.5"	610	1137 x 714 x 990	\$ 20350
914 Series							
	F3L914 (*)	3	42.5 / 2300	SAE 3 x 8/10"	277	595 x 696 x 795	\$ 9150
	F4L914	4	57.0 / 2300	SAE 3 x 8/10"	307	725 x 696 x 796	\$ 10690
	F6L914	6	86.0 / 2300	SAE 3 x 10/11.5"	430	995 x 676 x 885	\$ 15690
	BF6L914	6	118.0 / 2300	SAE 3 x 10/11.5"	485	1043 x 714 x 919	\$ 16880



DEUTZ DIESEL ENGINES – AIR COOLED UNDERGROUND OPERATION

Scope: basic underground application 2 stage combustion engine without hydraulic oil coolers

Series	Model	Cyl	Continuous kW / RPM	Housing & flywheel	Weight kg	Dimension mm L x W x H	List Price
912 Series							
	F3L912W (*)	3	32.0 / 2500	SAE 3 X 8/10"	330	595 x 665 x 813	\$ 16430
	F4L912W (*)	4	42.0 / 2500	SAE 3 X 8/10"	365	725 x 665 x 798	\$ 19240
	F5L912W (*)	5	53.0 / 2500	SAE 3 X 10/11.5"	465	855 x 665 x 838	\$ 22930
	F6L912W	6	63.0 / 2500	SAE 3 X 10/11.5"	500	985 x 665 x 808	\$ 24240
914 Series Direct Injection	F6L914	6	79.0 / 2300	SAE 3 X 10/11.5"	430	995 x 676 x 885	P.O.A

(*) Against firm order only

These are the characteristics of the 912W:

- Air-cooled 3, 4, 5 and 6 cylinder in-line engines.
- DEUTZ-two stage combustion.
- PTOs via gear, flywheel and v-belt pulley.
- Extremely compact design.
- High torque at low speed.
- Modular system with single cylinder arrangement and high degree of parts commonality.
- Customized component system with many different peripheral parts.



DEUTZ DIESEL ENGINES – AIR COOLED GENSET SCOPE



Prices based on Australian Genset Scopes of Supply

Series	Model	Cyl	Continuous kW / RPM	Housing & flywheel	Weight kg	Dimension mm L x W x H	List Price
900 Series							
	D909L1	1	4.9 / 1500	SAE 5 x 6-1/2"	113	453 x 400 x 665	\$ 4300
	D909L1	1	9.4 / 3000	SAE 5 x 6-1/2"	113	453 x 400 x 665	\$ 4230
	D910L2	2	12.6 / 1500	SAE 4 x 7-1/2"	185	540 x 502 x 687	\$ 5590
	D910L3	3	18.4 / 1500	SAE 4 x 7-1/2"	229	708 x 522 x 689	\$ 6920
1011 Series							
	F2L1011F	2	10.5 / 1500	SAE 4 x 8"	213	408 x 456 x 702	\$ 6500
	F3L1011F	3	16.0 / 1500	SAE 4 x 8"	252	515 x 456 x 678	\$ 7260
	F4L1011F	4	21.5 / 1500	SAE 4 x 8"	295	630 x 456 x 702	\$ 8000
	BF4L1011F	4	28.5 / 1500	SAE 4 x 8"	307	630 x 500 x 702	\$ 9030
2011 Series							
	F2L2011 (*)	2	11.4 / 1500	SAE 3 x 11.5"	216	408 x 456 x 702	\$ 7270
	F3L2011 (*)	3	18.1 / 1500	SAE 3 x 11.5"	256	515 x 456 x 678	\$ 8280
	F4L2011 (*)	4	26.2 / 1500	SAE 3 x 11.5"	300	630 x 456 x 702	\$ 9480
	BF4L2011 (*)	4	34.6 / 1500	SAE 3 x 11.5"	312	630 x 500 x 702	\$ 10080
912 Series							
	F3L912	3	26.5 / 1500	SAE 3 x 8/10"	330	711 x 679 x 613	\$ 7980
	F4L912	4	35.0 / 1500	SAE 3 x 8/10"	365	841 x 679 x 798	\$ 9230
	F6L912	6	53.0 / 1500	SAE 3 x 8/10"	500	1118 x 679 x 808	\$ 11630
913 Series							
	BF6L913	6	88.0 / 1500	SAE 3 x 8/10"	585	1108 x 714 x 875	\$ 17630
	BF6L913C	6	114.0 / 1500	SAE 3 x 8/10"	610	1137 x 714 x 990	\$ 21130
914 Series							
	F3L914 (*)	3	31.0 / 1500	SAE 3 x 8/10"	277	647 x 704 x 811	\$ 8690
	F4L914	4	41.0 / 1500	SAE 3 x 8/10"	307	777 x 704 x 796	\$ 9140
	F6L914	6	62.0 / 1500	SAE 3 x 8/10"	430	1057 x 704 x 806	\$ 12440
	BF6L914	6	88.0 / 1500	SAE 3 x 10/11.5"	485	1105 x 742 x 840	\$ 15920

(*) Against firm order only

DEUTZ DIESEL ENGINES – AIR COOLED FIRE PUMP DUTY



Prices based on Australian Standard Scope of Supply without any electrical/electronic components

Series	Model	Cyl	IFN kW / RPM	Housing & flywheel	Weight kg	Dimension mm L x W x H	List Price
2011 Series							
	F2L2011	2	23.0 / 2800	SAE 4 x 8/10"	213	540 x 451 x 683	\$ 8930
	F3L2011	3	35.8 / 2800	SAE 4 x 8/10"	252	652 x 495 x 678	\$ 9800
	F4L2011	4	47.8 / 2800	SAE 4 x 8/10"	295	763 x 451 x 703	\$ 11440
	BF3L2011	3	44.9 / 2800	SAE 4 x 8/10"	261	652 x 495 x 678	\$ 11980
	BF4L2011	4	58.1 / 2800	SAE 4 x 8/10"	307	763 x 451 x 703	\$ 12380
	F2L2011 Whisper	2	23.0 / 2800	SAE 4 x 8/10"	247	558 x 611 x 750	\$ 10900
	F3L2011 Whisper	3	35.8 / 2800	SAE 4 x 8/10"	288	669 x 611 x 750	\$ 11940
	F4L2011 Whisper	4	47.8 / 2800	SAE 4 x 8/10"	295	780 x 611 x 770	\$ 13740
	BF4L2011 Whisper	4	58.1 / 2800	SAE 4 x 8/10"	392	780 x 611 x 700	\$ 14670
912 Series							
	F3L912	3	40.0 / 2500	SAE 3 x 8/10"	330	595 x 665 x 813	\$ 8360
	F4L912	4	54.0 / 2500	SAE 3 x 8/10"	365	725 x 665 x 798	\$ 10680
	F6L912	6	82.0 / 2500	SAE 3 x 10/11.5"	500	985 x 665 x 808	\$ 14250
913 Series							
	BF4L913	4	74.0 / 2500	SAE 3 x 10/11.5"	430	898 x 679 x 800	\$ 14560
	BF6L913	6	118.0 / 2500	SAE 3 x 10/11.5"	589	1012 x 695 x 875	\$ 18140
	BF6L913C	6	136.0 / 2500	SAE 3 x 10/11.5"	610	1012 x 711 x 990	\$ 20700

DEUTZ NATURAL – AIR COOLED GAS ENGINES

Scope of supply for gas engines:

Basic engine, V-belt driven cooling blower, lube oil pump, oil filter, oil cooler and oil pan, special pistons and cylinder heads for gas applications, ignition system from ALTRONIC, carburetor from IMPCO, SAE 3 flywheel housing and 10/11.5" flywheel, alternator and starter (12 V), air intake manifold and exhaust manifold (center up), heavy duty dry type air cleaner from Donaldson, DEUTZ safety shut down control panel with integrated Woodward ECU, Engine mounts, rigid (four cylinder standard with mass balancer), heavy duty skid base

Series	Model	Cyl	Continuous kW / RPM	Maximum Torque Nm / RPM	Weight kg	Dimension mm L x W x H	List Price
913 Series							
	GF3L913	3	26.0 / 1500	172 / 1200	310	1120 x 860 x 1300	P.O.A
			28.0 / 1800				
			31.0 / 2200				
	GF4L913	4	32.0 / 1500	223 / 1100	340	1120 x 860 x 1300	P.O.A
			37.0 / 1800				
			41.0 / 2200				
	GF6L913	6	48.0 / 1500	323 / 1200	470	1720 x 860 x 1300	P.O.A
			56.0 / 1800				
			63.0 / 2000				
	GBF6L913C	6	70.0 / 1500	475 / 1200	555	1628 x 940 x 1180	P.O.A
			85.0 / 1800				
			89.0 / 2000				

Gas specification

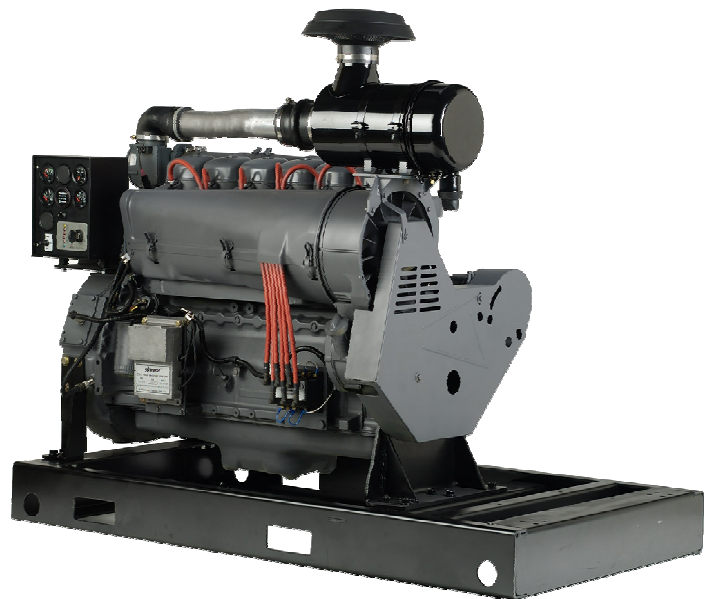
- The engine can run on natural gas, with a minimum methane content of 80%
- Future development will include propane

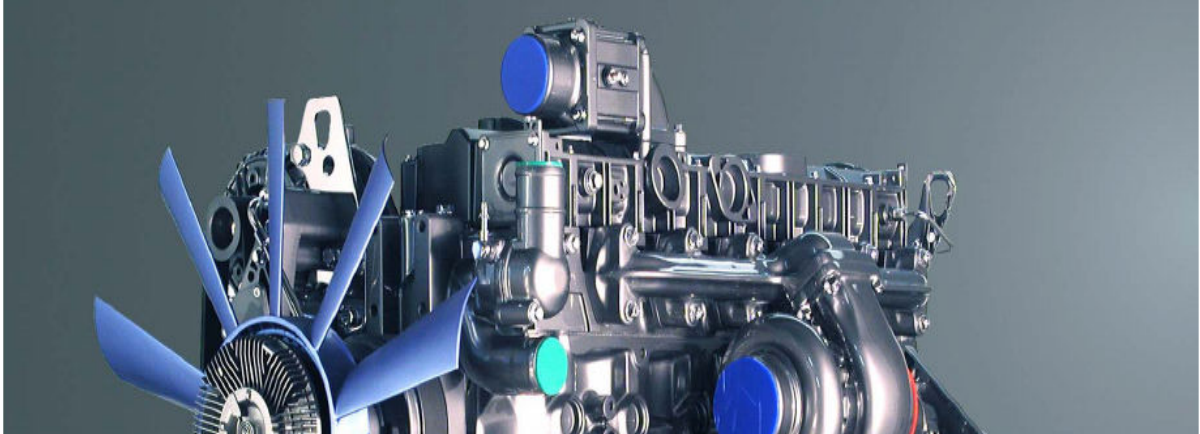
All engines are preset by orders

- All orders can be preset for power and speed with dyno test run
- Speed mode can be either two fixed speeds or a manual mode controlled manually by a potentiometer for variable speed (10 turns from min. to max.)

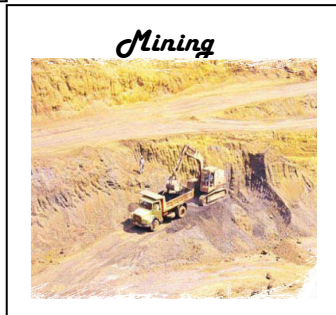
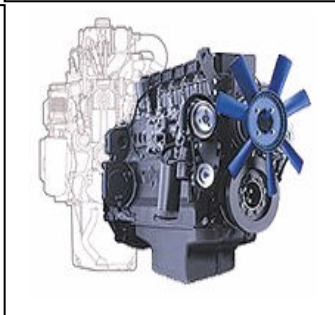
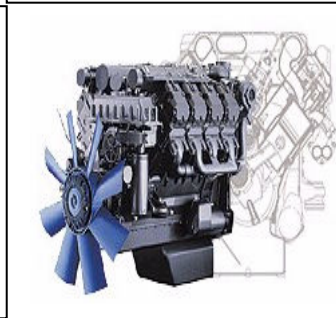
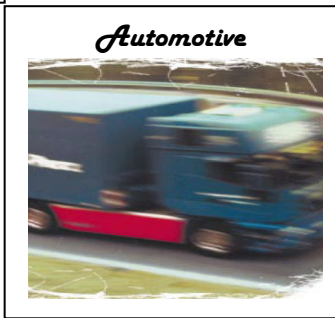
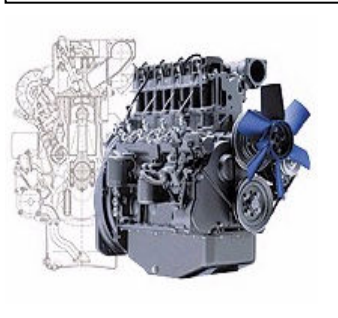
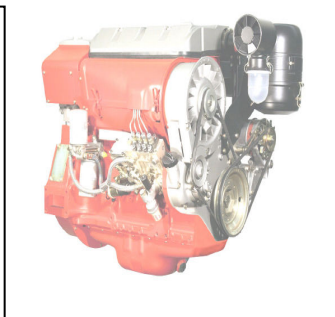
The engine will be monitored and protected against

- Low oil pressure, high oil temperature, and high cylinder heat temperature
- Broken V-belt for the cooling air blower
- Alternator failure (incl. low charging voltage below 14 Volt, for a 12 V-System)





Liquid cooled engines



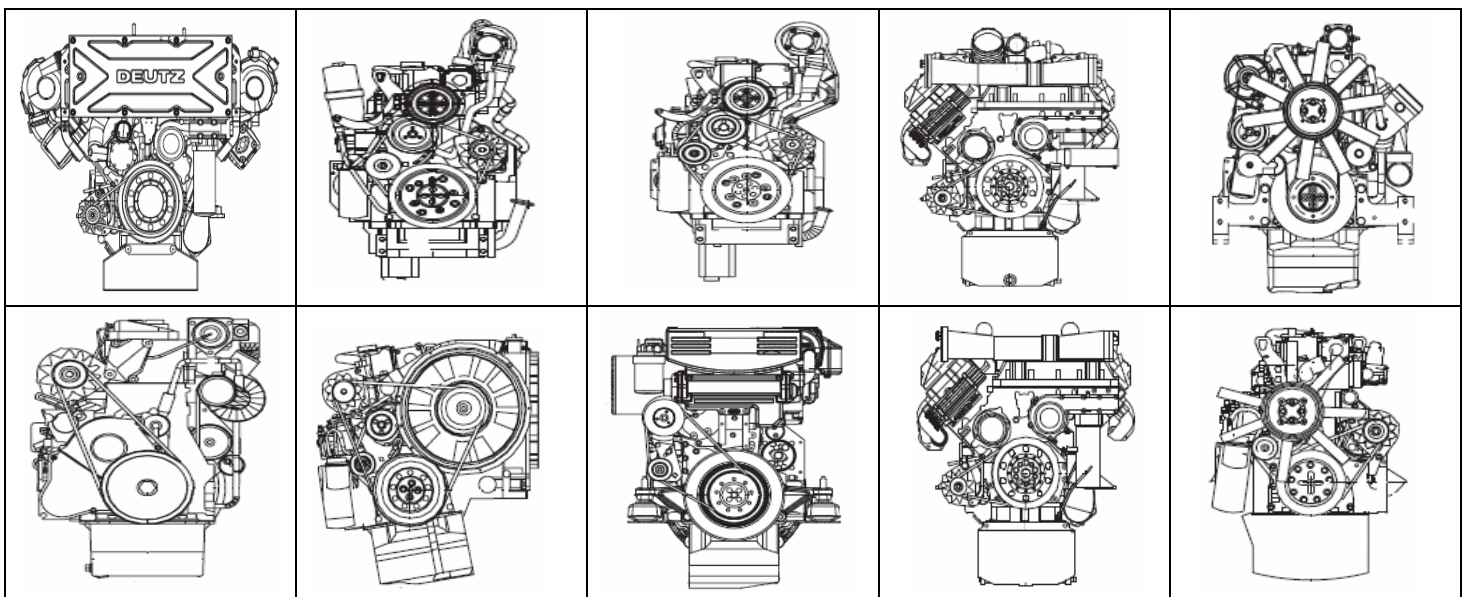
DEUTZ LIQUID COOLED ENGINES

AVERAGE FUEL CONSUMPTION COOLING & COMBUSTION AIR EXHAUST GAS VOLUME



ENGINE TYPE	NET ENGINE OUTPUT TO ISO 3046/1 "IFN" RATING			FUEL COMSUMP. @ 80% LOAD	COMBUST. AIR VOLUME @ 100% LOAD	EXHAUST GAS VOLUME @ 100% LOAD	EXHAUST FLANGE DIA
	RPM	kW	HP				
BF4M2011	1500	39.0	55.0	7.9	150.0	420.0	48
	2000	45.0	63.0	9.1	223.0	606.0	
	2300	50.0	70.0	10.5	270.0	728.0	
BF4M1013/E	1500	63.0	88.0	13.0	300.0	810.0	63
	2000	76.0	103.0	16.4	425.0	1147.0	
	2300	84.0	114.0	19.0	500.0	1350.0	
BF4M1013C/EC	1500	76.0	103.0	14.9	351.0	946.0	63
	2000	96.0	131.0	19.1	497.0	1340.0	
	2300	104.0	141.0	21.6	584.0	1577.0	
BF6M1013/E	1500	95.0	129.0	19.0	460.0	1242.0	70
	2000	114.0	155.0	24.0	652.0	1759.0	
	2300	126.0	171.0	27.7	767.0	2069.0	
BF6M1013C/EC	1500	115.0	156.0	21.6	614.0	1655.0	70
	2000	139.0	189.0	27.3	869.0	2345.0	
	2300	153.0	208.0	31.6	1023.0	2759.0	
BF6M1013CP/ECP	1500	128.0	174.0	24.5	658.0	1774.0	70
	2000	155.0	211.0	30.7	931.0	2513.0	
	2300	171.0	233.0	36.2	1096.0	2956.0	
BF6M1015	1500	195.0	265.0	35.9	1046.0	1280.9	90
	1800	211.0	287.0	40.4	1242.0	1517.0	
	2100	223.0	303.0	46.5	1380.0	1686.0	
BF6M1015C	1500	239.0	325.0	43.6	1267.0	1548.0	90
	1800	259.0	352.0	48.9	1490.0	1817.0	
	2100	273.0	371.0	54.9	1640.0	2000.0	
BF6M1015CP	1500	263.0	352.0	49.1	1170.0	1430.0	90
	1800	285.0	382.0	54.8	1475.0	1800.0	
	2100	300.0	402.0	60.4	1783.0	2170.0	
BF8M1015C	1500	318.0	433.0	58.3	1689.0	2064.0	76
	1800	345.0	469.0	65.4	1987.0	2423.0	
	2100	364.0	495.0	73.2	2187.0	2672.0	
BF8M1015CP	1500	351.0	470.0	65.6	1519.0	1840.0	76
	1800	382.0	512.0	73.4	1984.0	2380.0	
	2100	400.0	536.0	84.1	2340.0	2800.0	

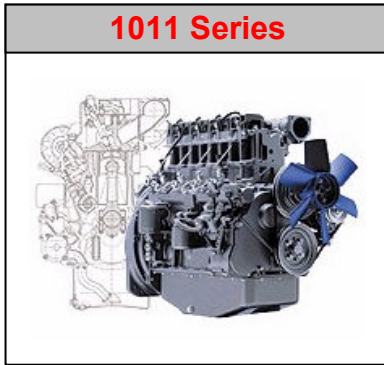
Note: N/A = not available
 Calorific value of fuel 41.900 Kj/Kg
 Specific gravity of fuel 830 gr/ltr
 Exhaust gas volume behind manifold at actual temperature



We Love Engines

Diesel Parts & Service Pty. Ltd.
 Phone: 07 32681062 Fax: 07 8681330

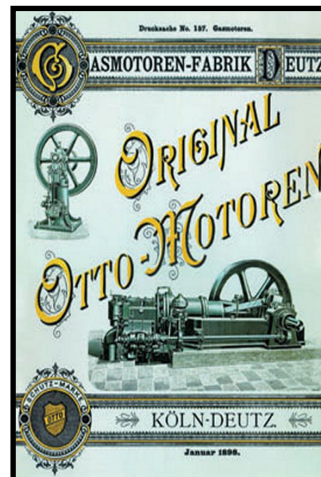
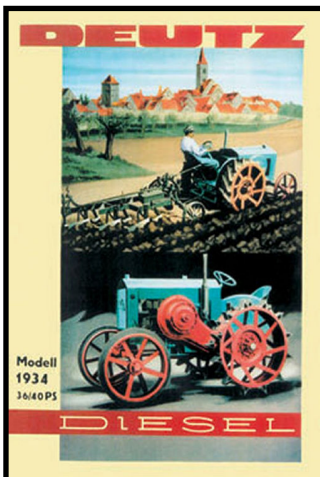
LIQUID COOLED ENGINE SPECIFICATIONS



Australian Standard Scope.

Engine	Cyl	Type	Intermittent kW / RPM	Continuous kW / RPM	Max Torque Nm / RPM	Bore mm	Stroke mm	Disp Ltrs	Max Speed rpm	Min Idle speed rpm
BF4M1013	4	T	84.0 / 2300	79.0 / 2300	394 / 1400	108	130	4.76	2300	650
BF4M1013E	4	T	86.0 / 2300	81.0 / 2300	422 / 1400	108	130	4.76	2300	650
BF4M1013C	4	T	104.0 / 2300	99.0 / 2300	487 / 1400	108	130	4.76	2300	800
BF4M1013EC	4	T	107.0 / 2300	102.0 / 2300	491 / 1400	108	130	4.76	2300	800
BF6M1013	6	T	126.0 / 2300	119.0 / 2300	593 / 1400	108	130	7.15	2300	650
BF6M1013E	6	T	130.0 / 2300	123.0 / 2300	598 / 1400	108	130	7.15	2300	650
BF6M1013C	6	T	153.0 / 2300	144.0 / 2300	727 / 1400	108	130	7.14	2300	600
BF6M1013EC	6	T	157.0 / 2300	148.0 / 2300	727 / 1400	108	130	7.15	2300	800
BF6M1013CP	6	T	171.0 / 2300	161.0 / 2300	795 / 1550	108	130	7.14	2300	800
BF6M1013ECP	6	T	176.0 / 2300	166.0 / 2300	805 / 1400	108	130	7.15	2300	800
BF6M1015	6	T	223.0 / 2100	214.0 / 2100	1313 / 1300	132	145	11.91	2100	550
BF6M1015C	6	T	273.0 / 2100	261.0 / 2100	1721 / 1200	132	145	11.91	2100	550
BF6M1015CP	6	T	300.0 / 2100	287.0 / 2100	1631 / 1300	132	145	11.91	2100	550
BF8M1015C	8	T	364.0 / 2100	348.0 / 2100	2293 / 1300	132	145	15.87	2100	550
BF8M1015CP	8	T	400.0 / 2100	383.0 / 2100	2176 / 1300	132	145	15.87	2100	550

Note: Fan losses not included in ratings

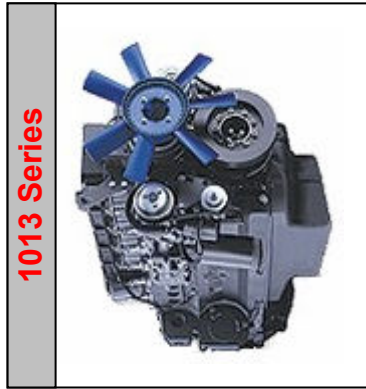


LIQUID COOLED INTERMITTENT RATINGS



Model	Fan losses		1500		1800		1900		2000		2100		2200		2300	
	kW / RPM		kW	hp	kW	hp	kW	hp	kW	hp	kW	hp	kW	HP	kW	hp
BF4M1013	Included		■	■	■	■	■	■	76.0	103.0	79.0	107.0	81.0	110.0	84.0	114.0
BF4M1013E	5.0 / 2300		■	■	■	■	■	■	78.0	106.0	81.0	110.0	83.0	113.0	86.0	117.0
BF4M1013C	Included		■	■	■	■	■	■	96.0	131.0	99.0	135.0	101.0	137.0	104.0	141.0
BF4M1013EC	8.3 / 2300		■	■	■	■	■	■	98.0	133.0	101.0	137.0	104.0	141.0	107.0	145.0
BF6M1013	Included		■	■	■	■	■	■	114.0	155.0	118.0	160.0	122.0	166.0	126.0	171.0
BF6M1013E	7.4 / 2300		■	■	■	■	■	■	116.0	158.0	121.0	164.0	125.0	170.0	130.0	177.0
BF6M1013C	Included		■	■	■	■	■	■	139.0	189.0	143.0	194.0	148.0	201.0	153.0	208.0
BF6M1013EC	13.0 / 2300		■	■	■	■	■	■	142.0	193.0	146.0	198.0	152.0	207.0	157.0	213.0
BF6M1013CP	Included		■	■	■	■	■	■	155.0	211.0	161.0	219.0	166.0	226.0	171.0	233.0
BF6M1013ECP	17.7 / 2300		■	■	■	■	■	■	158.0	215.0	165.0	224.0	170.0	231.0	176.0	239.0
BF6M1015	14.0 / 2100		195.0	265.0	211.0	287.0	223.0	303.0	223.0	303.0	223.0	303.0	■	■	■	■
BF6M1015C	14.0 / 2100		239.0	325.0	259.0	352.0	273.0	371.0	273.0	371.0	273.0	371.0	■	■	■	■
BF6M1015CP	14.0 / 2100		263.0	352.0	285.0	382.0	300.0	402.0	300.0	402.0	300.0	402.0	■	■	■	■
BF8M1015C	14.0 / 2100		318.0	432.0	345.0	470.0	364.0	495.0	364.0	495.0	364.0	495.0	■	■	■	■
BF8M1015CP	14.0 / 2100		351.0	470.0	382.0	512.0	400.0	536.0	400.0	536.0	400.0	536.0	■	■	■	■

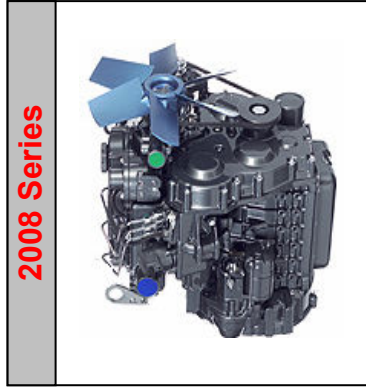
Note: Fan losses not included in ratings unless stated



1013 Series



1015 Series



2008 Series



2011 Series



2012 Series

Power standard for industrial engines ISO 3046-1
 Ambient barometric pressure total: 100kPa
 Ambient air temperature: 25°C
 Relative humidity: 30%

LIQUID COOLED CONTINUOUS RATINGS



Model	Fan losses		1500		1800		1900		2000		2100		2200		2300	
	kW / RPM	hp	kW	hp	kW	hp	kW	hp	kW	hp	kW	hp	kW	hp	kW	hp
BF4M1013	Included	83.1	62.0	83.1	69.0	92.5	70.5	94.5	72.0	96.5	74.0	99.2	77.0	103.2	79.0	105.9
BF4M1013E	5.0 / 2300	83.1	62.0	83.1	72.0	96.5	73.0	97.8	74.0	99.2	76.0	101.9	79.0	105.9	81.0	108.6
BF4M1013C	Included	76.0	101.9	76.0	85.0	113.9	87.5	117.3	90.0	120.7	94.0	126.0	96.0	128.7	99.0	132.7
BF4M1013EC	8.3 / 2300	78.0	104.5	78.0	88.0	118.0	90.0	120.6	92.0	123.3	96.0	128.7	99.0	132.7	102.0	136.7
BF6M1013	Included	93.0	124.7	93.0	103.0	138.1	105.5	141.4	108.0	144.8	112.0	150.2	116.0	155.5	119.0	159.5
BF6M1013E	7.4 / 2300	94.0	126.0	94.0	106.0	142.1	108.0	144.8	110.0	147.5	115.0	154.2	119.0	159.5	123.0	164.9
BF6M1013C	Included	113.0	151.5	113.0	125.0	167.6	128.0	171.6	131.0	175.6	135.0	181.0	140.0	187.7	144.0	193.1
BF6M1013EC	13.0 / 2300	113.0	151.5	113.0	130.0	174.3	132.0	177.0	134.0	179.7	138.0	185.0	144.0	193.1	148.0	198.4
BF6M1013CP	Included	125.0	167.6	125.0	139.0	186.4	143.0	191.7	147.0	197.1	151.0	202.5	156.0	209.2	161.0	215.9
BF6M1013ECP	17.7 / 2300	122.0	163.6	122.0	146.0	195.7	148.0	198.4	150.0	201.1	155.0	207.8	160.0	214.5	166.0	222.6
BF6M1015	14.0 / 2100	187.0	250.7	187.0	203.0	272.2	214.0	286.9	214.0	286.9	214.0	286.9	■	■	■	■
BF6M1015C	14.0 / 2100	228.0	305.7	228.0	248.0	332.5	261.0	350.0	261.0	350.0	261.0	350.0	■	■	■	■
BF6M1015CP	14.0 / 2100	251.0	336.6	251.0	272.0	364.7	287.0	384.8	287.0	384.8	287.0	384.8	■	■	■	■
BF8M1015C	14.0 / 2100	304.0	407.6	304.0	330.0	442.5	348.0	466.6	348.0	466.6	348.0	466.6	■	■	■	■
BF8M1015CP	14.0 / 2100	335.0	449.2	335.0	364.0	488.1	383.0	513.6	383.0	513.6	383.0	513.6	■	■	■	■

Note: Fan losses not included in ratings unless stated

Power standard for industrial engines ISO 3046-1

Ambient barometric pressure total: 100kPa

Ambient air temperature: 25°C

Relative humidity: 30%

Engines for all applications



**DEUTZ DIESEL ENGINES – LIQUID COOLED
AUSTRALIAN STANDARD SCOPE**



Prices based on Australian Standard Scopes of Supply

Series	Model	Cyl	Continuous kW / RPM	housing & flywheel	Weight kg	Dimensions mm L x W x H	List Price
1013 Series							
	BF4M1013	4	79.0 / 2300	SAE 3 x 10/11.5"	713	1020 x 760 x 790	\$ 18560
	BF4M1013E	4	81.0 / 2300	SAE 3 x 10/11.5"	588	1020 x 760 x 790	\$ 17450
	BF4M1013C	4	99.0 / 2300	SAE 3 x 10/11.5"	738	1020 x 760 x 790	\$ 19880
	BF4M1013EC	4	102.0 / 2300	SAE 3 x 10/11.5"	590	741 x 616 x 844	\$ 18390
	BF6M1013	6	119.0 / 2300	SAE 3 x 10/11.5"	895	1280 x 760 x 845	\$ 23890
	BF6M1013E	6	111.0 / 1800	SAE 3 x 10/11.5"	763	1024 x 577 x 844	\$ 22420
	BF6M1013E	6	123.0 / 2300	SAE 3 x 10/11.5"	763	1024 x 577 x 844	\$ 22980
	BF6M1013C	6	144.0 / 2300	SAE 3 x 10/11.5"	938	1280 x 760 x 845	\$ 26120
	BF6M1013EC	6	134.0 / 1800	SAE 3 x 10/11.5"	765	1024 x 577 x 844	\$ 23610
	BF6M1013EC	6	148.0 / 2300	SAE 3 x 10/11.5"	765	1024 x 577 x 844	\$ 29450
	BF6M1013CP (*)	6	161.0 / 2300	SAE 3 x 10/11.5"	928	1280 x 760 x 845	\$ 28650
	BF6M1013ECP (*)	6	166.0 / 2300	SAE 3 x 10/11.5"	765	1024 x 577 x 844	\$ 36750
1015 Series							
	BF6M1015	6	214.0 / 2100	SAE 1 X 14"	1380	985 x 925 x 970	\$ 33150
	BF6M1015C	6	261.0 / 2100	SAE 1 X 14"	1390	985 x 925 x 970	\$ 39180
	BF6M1015CP (*)	6	287.0 / 2100	SAE 1 X 14"	1390	985 x 925 x 970	\$ 43040
	BF8M1015C	8	348.0 / 2100	SAE 1 X 14"	1560	1150 x 992 x 960	\$ 45150
	BF8M1015CP	8	383.0 / 2100	SAE 1 X 14"	1560	1150 x 992 x 961	\$ 48670
2012 Series	BF4M2012	4	72.0 / 2200	SAE 4 x 8"/10"	458		P.O.A

(*) Against firm order only



**DEUTZ DIESEL ENGINES – LIQUID COOLED
UNDERGROUND OPERATION**



Scope: basic underground application 2 stage combustion engine without hydraulic oil coolers

Series	Model	Cyl	Continuous kW / RPM	Weight kg	Dimension mm L x W x H	Price
1013 Series						
	BF4M1013C (12 volt)	4	115.0 / 2300	432	896 x 760 x 790	\$ 21620
	BF4M1013C (24 volt)	4	115.0 / 2300	432	896 x 760 x 790	\$ 22000

All engines are certified acc. to MSHA



DEUTZ Customised Solutions

DEUTZ DIESEL ENGINES – LIQUID COOLED GENSET SCOPE

Prices based on Australian Genset Scope of Supply

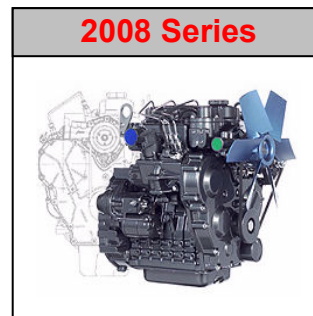
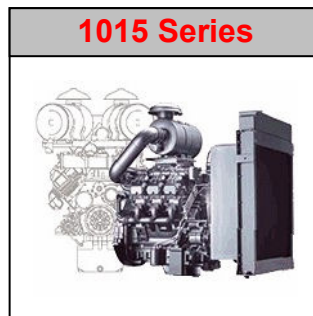
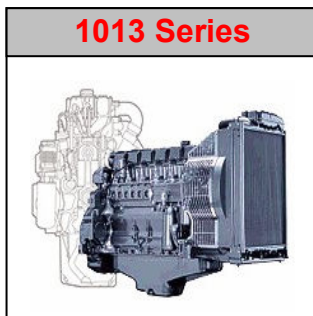
Series	Model	Cyl	Power kW / RPM	Rating Type	Weight kg	Dimensions mm L x W x H	List Price
	D2008L03		9.7 / 1500	PRP	185	783 x 502 x 790	\$ 6160
	D2008L04		13.8 / 1500	PRP	219	869 x 502 x 790	\$ 6970
	D2009L03		15.4 / 1500	PRP	210	-	\$ 6640
	D2009L04		19.7 / 1500	PRP	235	-	\$ 7170
	TD2009L04		26.9 / 1500	PRP	240	-	\$ 8650
2012 Series							
	BF4M2012-G1	4	51.0 / 1500	PRP	457	1110 x 790 x 790	\$ 11690
	BF4M2012-G2	4	54.0 / 1500	PRP	458	1150 x 790 x 791	\$ 11690
	BF4M2012C	4	64.0 / 1500	PRP	473	1250 x 820 x 840	\$ 13000
1013 Series							
	BF4M1013E	4	77.0 / 1500	COP	538	1020 x 760 x 790	\$ 10570
	BF4M1013EC	4	92.0 / 1500	COP	540	1020 x 760 x 791	\$ 11890
	BF4M1013FC (*)	4	96.0 / 1500	PRP	540	1020 x 760 x 792	\$ 15860
	BF6M1013E	6	116.0 / 1500	COP	713	1024 x 577 x 844	\$ 14840
	BF6M1013EC	6	139.0 / 1500	COP	715	1024 x 577 x 844	\$ 15470
	BF6M1013FC-G1	6	154.0 / 1500	COP	715	1024 x 577 x 845	\$ 19840
	BF6M1013FC-G2	6	166.0 / 1500	PRP	717	1024 x 777 x 845	\$ 20140
	BF6M1013FC-G3	6	183.0 / 1500	LTP	715	1024 x 577 x 844	\$ 20190
1015 Series							
	BF6M1015	6	195.0 / 1500	COP	830	985 x 925 x 970	\$ 35610
	BF6M1015C-G1	6	250.0 / 1500	COP	890	985 x 925 x 970	\$ 37690
	BF6M1015C-G1	6	285.0 / 1500	PRP	890	985 x 925 x 970	\$ 37640
	BF6M1015C-G2 (*)	6	315.0 / 1500	LTP	890	985 x 925 x 970	\$ 37780
	BF6M1015CP-G3 (*)	6	303.0 / 1500	COP	890	985 x 925 x 970	\$ 43930
	BF6M1015CP-G3 (*)	6	338.0 / 1500	PRP	890	985 x 925 x 970	\$ 44350
	BF6M1015CP-G3 (*)	6	365.0 / 1500	LTP	890	985 x 925 x 970	\$ 44350
	BF8M1015C-G1	8	333.0 / 1500	COP	1060	1150 x 992 x 960	\$ 46740
	BF8M1015C-G1	8	380.0 / 1500	PRP	1060	1150 x 992 x 960	\$ 48240
	BF8M1015C-G2 (*)	8	402.0 / 1500	LTP	1060	1150 x 992 x 960	\$ 50900
	BF8M1015CP-G3	8	399.0 / 1500	COP	1060	1150 x 992 x 960	\$ 55150
	BF8M1015CP-G3	8	448.0 / 1500	PRP	1060	1150 x 992 x 960	\$ 58020
	BF8M1015CP-G3	8	490.0 / 1500	LTP	1060	1150 x 992 x 960	\$ 58030

COP – continuous power

PRP – prime power

LTP – limited time running power

(*) against firm order only



**DEUTZ DIESEL ENGINES – LIQUID COOLED
MARINE SCOPE
63kW – 300kW (86 – 408hp) at 1500 - 2600 rpm**



1013 Series

Modern water-cooled four stroke 4 and 6 cylinder in-line engines.
Water-cooled turbocharger and exhaust manifolds.
PTOs gear driven.
High pressure fuel injection system with single injection pump.
Water-cooled charge-air-cooler.
Compact design.
Easily accessible service points on one engine side.

1015 Series

Modern water-cooled four stroke 6 and 8 cylinder V-engines.
Water-cooled turbocharger and exhaust manifolds.
PTOs gear driven.
Modern injection system with Mechanical governor.
Electronic governor for genset applications.
Charge-air cooled by engine cooling liquid.
Innovative DEUTZ Multi-Parallel-cooling System.
Compact design.

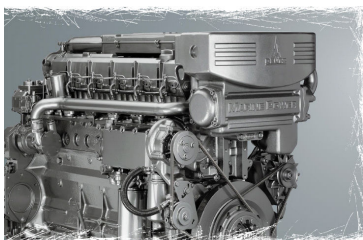
Series	Bore Stroke	Disp LTRs	Model	Cyl	Marine Propulsion Power Rating kW / RPM	Weight with Heat exchanger	Weight as Keel Cooling	On-board Generating set Power Rating kW / RPM
1013 Series	108/130	4.76	BF4M1013E	4	81 / 2300 (A ¹) 95 / 2300 (B ¹)	600 kg	500 kg	81 / 1500 (G) 85 / 1800 (G)
	108/130	4.76	BF4M1013EC	4	102 / 2300 (A ¹) 118 / 2300 (B ¹)	650 kg	550 kg	97 / 1500 (G) 105 / 1500 (G)
	108/130	7.15	BF6M1013E	6	123 / 2300 (A ¹) 145 / 2300 (B ¹)	750 kg	650 kg	122 / 1500 (G) 128 / 1800 (G)
	108/130	7.15	BF6M1013EC	6	148 / 2300 (A ¹) 174 / 2300 (B ¹)	800 kg	700 kg	146 / 1500 (G) 155 / 1800 (G)
	108/130	7.15	BF6M1013ECP	6	166 / 2300 (A ¹) 195 / 2300 (B ¹)	800 kg	700 kg	N/A N/A
Series	Bore Stroke	Disp LTRs	Model	Cyl	Marine Propulsion Power Rating kW / RPM	Weight with Heat exchanger	Weight as Keel Cooling	On-board Generating set Power Rating kW / RPM
1015 Series	132/145	11.91	BF6M1015M	6	203 / 1800 (A) 214 / 1900 (A) 214 / 2100 (A) 228 / 1800 (B) 240 / 1900 (B) 240 / 2100 (B)	1080 kg	1020 kg	195 / 1500 (G) 210 / 1500 (N) 211 / 1800 (G) 228 / 1800 (N)
	132/145	11.91	BF6M1015MC	6	272 / 1800 (A) 287 / 1900 (A) 287 / 2100 (A) 313 / 1800 (B) 330 / 1900 (B) 330 / 2100 (B)	1180 kg	1110 kg	250 / 1500 (G) 285 / 1500 (N) 281 / 1800 (G) 310 / 1800 (N)
	132/145	15.87	BF8M1015MC	8	364 / 1800 (A) 383 / 1900 (A) 383 / 2100 (A) 418 / 1800 (B) 440 / 1900 (B) 440 / 2100 (B)	1380 kg	1310 kg	333 / 1500 (G) 380 / 1500 (N) 362 / 1500 (G) 413 / 1800 (N)

Marine Propulsion Definitions

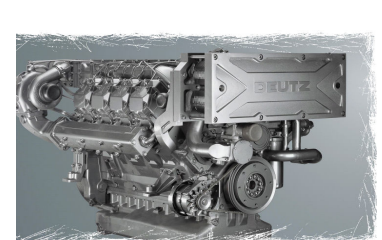
- (A)** Net brake fuel stop power for continuous operation unlimited time, SCFN or ICFN to ISO 3046
- (B)** Net brake fuel stop power for continuous operation, SCFN or ICFN to ISO 3046
- (1)** Keel cooling or with heat exchanger

Generator set Definitions

- (G)** Continuous power, overloadable by 10% for one hour within an operating period of 12 hours. SCXN or ICXN to ISO 3046
- (N)** Continuous power, overloadable by 10% for one hour within an operating period of 12 hours. SCXN or ICXN to ISO 3046
Permissible average power output < 80%



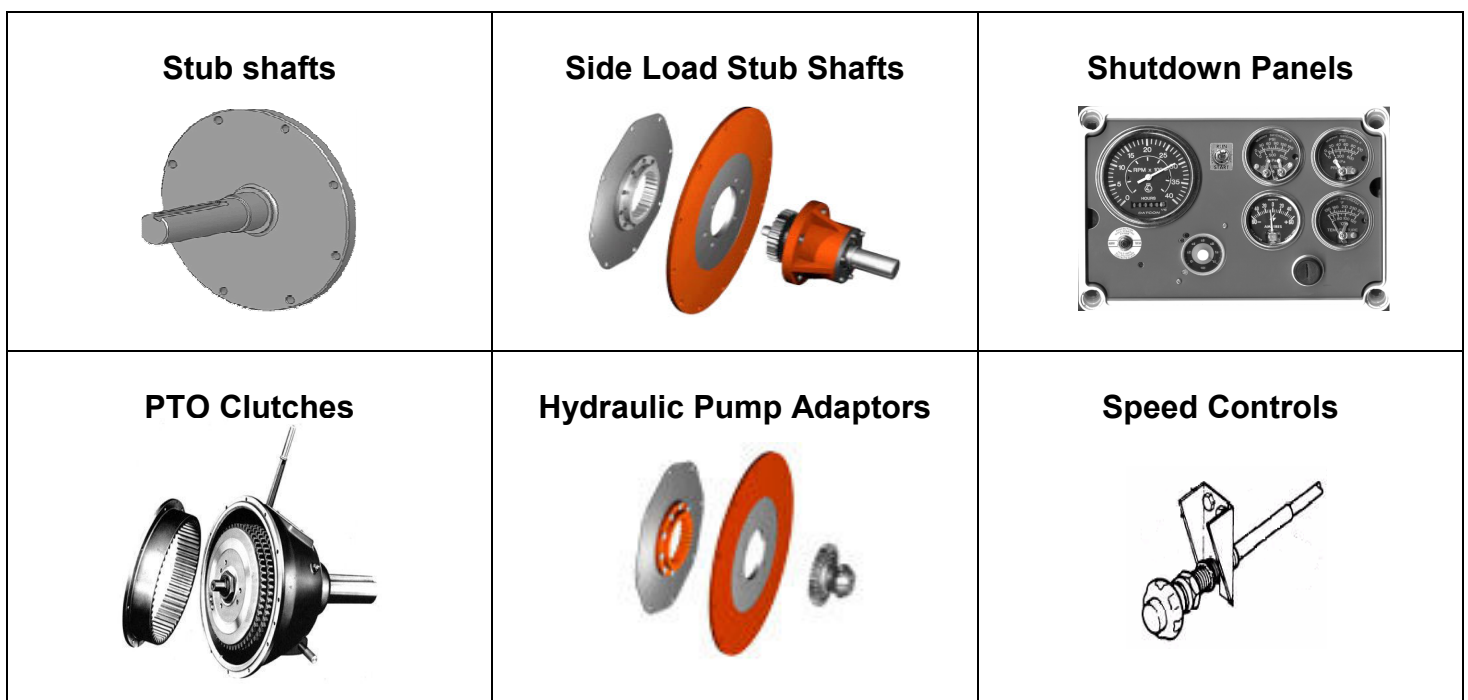
1013 Series



1015 Series

ENGINE ACCESSORIES

Accessories	Price
Speed Controls	
Fine speed adjustable throttle rod control assembly	P.O.A
Micro adjustable throttle cable control assembly	P.O.A
Stop cable assembly fitted for emergency stop	P.O.A
Electrics – standard engine panels (other options available on request)	
DKS Basic key start panel	P.O.A
DOT shutdown panel with “Murphy” oil pressure and engine temp switch gauge	P.O.A
DOTTV(WP) shutdown = DOT + tacho-hour meter + volt meter (weatherproof case)	P.O.A
POTTVC(P) shutdown = DOTTV + time clock + pump pressure shutdown gauge	P.O.A
PTO Stubshafts (flywheel mounted driveshaft)	
SAE 6-1/2 power take off stub shaft 1-5/8” parallel keyed shaft	P.O.A
SAE 7-1/2 power take off stub shaft 1-5/8” parallel keyed shaft	P.O.A
SAE 8 power take off stub shaft 1-5/8” & 2” parallel keyed shaft	P.O.A
SAE 10 power take off stub shaft 1-5/8” & 2” parallel keyed shaft	P.O.A
SAE 11-1/2 power take off stub shaft 2” parallel keyed shaft	P.O.A
Side Load Stubshafts (bell housing supported with taper roller bearings to flywheel mounted stubshaft)	
SAE 5 x 6-1/2 side load stub shaft kit 1-1/2” parallel keyed shaft	P.O.A
SAE 4 x 7-1/2 side load stub shaft kit 1-1/2” parallel keyed shaft	P.O.A
SAE 3 x 10 side load stub shaft kit 1-1/2” parallel keyed shaft	P.O.A
SAE 3 x 11-1/2 side load stub shaft kit 1-1/2” parallel keyed shaft	P.O.A
PTO Clutches (other options available on request) full side load, manually engaged / disengaged.	
PTO clutch SAE 5 x 6-1/2 1-7/16” parallel keyed shaft	P.O.A
PTO clutch SAE 4 x 7-1/2 1-7/16” parallel keyed shaft	P.O.A
PTO clutch SAE 3 x 10 2-1/4” parallel keyed shaft	P.O.A
PTO clutch SAE 3 x 11-1/2” 2-1/4” parallel keyed shaft	P.O.A
PTO clutch SAE 3 x 11-1/2” 2-1/2” parallel keyed shaft twin plate	P.O.A
Hydraulic Pump Adaptors (other options available on request)	
SAE 5 x 6-1/2” Hydraulic pump adaptor plate and flexilock coupling kit SAE A, B, DIN2	P.O.A
SAE 4 x 7-1/2” Hydraulic pump adaptor plate and flexilock coupling kit SAE A, B, DIN2	P.O.A
SAE 3 x 10” Hydraulic pump adaptor plate and flexilock coupling kit SAE B, C	P.O.A
SAE 3 x 11-1/2” Hydraulic pump adaptor plate and flexilock coupling kit SAE B, C	P.O.A

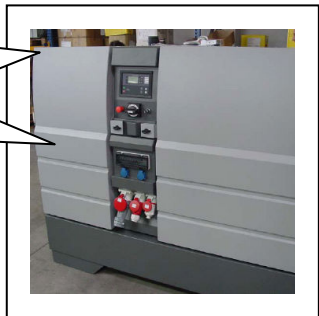
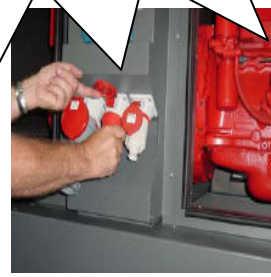


Generating the **DEUTZ** Way.

Deutz in-house developed power generators equipped with air-cooled, 9 Series diesel engines. The new ADG (Air-cooled Diesel Genset) product range encompasses a finely graduated line of three, four and six cylinder engines with power outputs ranging from 30 to 150 kVa for main power frequencies of 50Hz. Open frame and soundproof encapsulated models available.

Specifications:

Model	k.V.a	Voltage	Amps Per Phase	Speed	Fuel Tank Capacity	Range At 75% load	Dimensions L x W x H mm	Weight kg
ADG28C	28.0 kVa	415/240	40 amps	1500 rpm	180 litres	34.6 hrs	1760 x 1110 x 1610	1050 kg
ADG32C	32.0 kVa	415/240	46 amps	1500 rpm	180 litres	33.3 hrs	1760 x 1110 x 1610	1100 kg
ADG42C	42.0 kVa	415/240	61 amps	1500 rpm	180 litres	25.0 hrs	1980 x 1110 x 1610	1300 kg
ADG62C	62.0 kVa	415/240	89 amps	1500 rpm	180 litres	21.4 hrs	1980 x 1110 x 1750	1350 kg
ADG72C	72.0 kVa	415/240	104 amps	1500 rpm	300 litres	28.5 hrs	2400 x 1110 x 1750	1650 kg
ADG102C	102.0 kVa	415/240	147 amps	1500 rpm	300 litres	19.5 hrs	2400 x 1110 x 1750	1800 kg
ADG132C	132.0 kVa	415/240	191 amps	1500 rpm	300 litres	14.5 hrs	2400 x 1110 x 1750	1900kg
ADG152C	152.0 kVa	415/240	219 amps	1500 rpm	300 litres	13.5 hrs	2400 x 1110 x 1750	2000 kg



Engine & Alternator

Model	ADG28C	ADG32C	ADG42C	ADG62C	ADG72C	ADG102C	ADG132C	ADG152C
Engine	F3L912	F3L914	F4L914	BF4L914	F6L914	BF6L914	BF6L914C	BF6L914C
Alternator	Marelli	Marelli	Marelli	Marelli	Marelli	Marelli	Marelli	Marelli

DEUTZ POWERED PUMPS

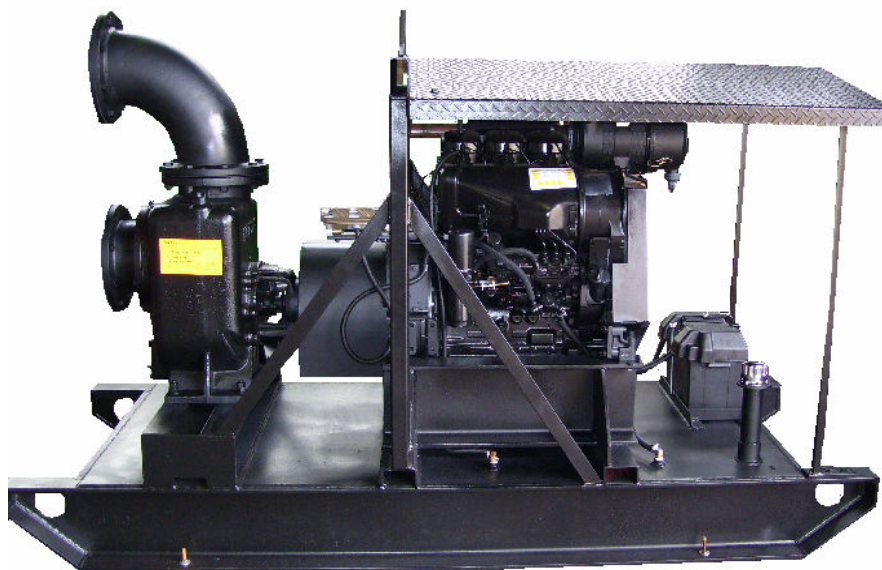
Diesel Engine Powered Pumps – Self Priming 6” & 8”

STD Scope: Self priming pump, inline drive to Deutz diesel engine Power Pak, battery box with battery and leads fitted, channel steel skid base frame with in-built 300 litre fuel tank, coupling guard
Direct coupled inline drive with stubshaft and tyre flex flexible coupling

Options:

- Murphy shutdown panel
- Pump sets built to your specifications e.g. skid base, trailer mounted, mine specification
- Single point lifting frame fitted
- Pump connections: hose tails, flanges, Camlock, quick couplings like Bauer, Anfor or Ferrari
- Roof hood cover fitted over engine drive assembly
- Engine and pump controls e.g. automatic start/stop, time clock, float switches
- Mechanical seal options
- Emergency stop, battery isolation, fire extinguisher

Size / Power	Pump / Engine	Drive Type	Engine Starting	Maximum Volume	Maximum Head	Nominal Duty	Pump Speed
6" / 21 hp	FSR150 / D910L2	Direct	Electric	85 l/sec	24 mtrs	70 l/sec @ 11 mtrs	1900 rpm
6" / 21 hp	FSR150 / F2L2011	Direct	Electric	85 l/sec	24 mtrs	70 l/sec @ 11 mtrs	1900 rpm
6" / 37 hp	FSR150 / D910L3	Direct	Electric	100 l/sec	32 mtrs	77 l/sec @ 18 mtrs	2200 rpm
6" / 37 hp	FSR150 / F3L2011	Direct	Electric	100 l/sec	32 mtrs	77 l/sec @ 18 mtrs	2200 rpm
8" / 16 hp	FSR200 / D910L2	Direct	Electric	85 l/sec	14 mtrs	65 l/sec @ 10 mtrs	1500 rpm
8" / 16 hp	FSR200 / F2L2011	Direct	Electric	85 l/sec	14 mtrs	65 l/sec @ 10 mtrs	1500 rpm
8" / 22 hp	FSR200 / D910L3	Direct	Electric	105 l/sec	20 mtrs	82 l/sec @ 13 mtrs	1800 rpm
8" / 22 hp	FSR200 / F3L2011	Direct	Electric	105 l/sec	20 mtrs	82 l/sec @ 13 mtrs	1800 rpm
8" / 47 hp	FSR200 / F3L912	Direct	Electric	130 l/sec	30 mtrs	113 l/sec @ 15 mtrs	2200 rpm
8" / 53 hp	FSR200 / F4L2011	Direct	Electric	130 l/sec	30 mtrs	113 l/sec @ 15 mtrs	2200 rpm
8" / 60 hp	FSR200 / F4L912	Direct	Electric	130 l/sec	30 mtrs	113 l/sec @ 15 mtrs	2200 rpm



FSR200/DC/F4L2011 fuel tank base – roof and other options

DEUTZ POWERED PUMPS



Diesel Engine Powered Pumps – Trash & sewage 3” – 12”

STD Scope: Self priming heavy duty industrial “TRASH & SEWAGE” pump, inline drive to Deutz diesel engine Power Pak, battery box with battery and leads fitted, channel steel base frame, coupling guard. Pump has oil bath mechanical seal fitted as standard.
Direct coupled inline drive with stubshaft and tyre flex flexible coupling 3” to 6” pumpsets
Reduction Gearbox with coupling. Gearbox has clutch system inbuilt 8” to 12” pumpsets

Options:

- Murphy shutdown panel
- Pump sets built to your specifications e.g. skid base, trailer mounted, mine specification
- Fuel tank built into base frame
- Single point lifting frame fitted
- Pump connections: hose tails, flanges, Camlock, quick couplings like Bauer, Anfor or Ferrari
- Roof hood cover fitted over engine drive assembly
- Engine and pump controls e.g. automatic start/stop, time clock, float switches
- Emergency stop, battery isolation, fire extinguisher

Size / Power	Pump / Engine	Drive Type	Maximum Volume	Maximum Head	Nominal Duty	Pump Speed
3” / 23 hp	TS-80 / D910L2	Direct	26 l/sec	20 mtrs	26 l/sec @ 28 mtrs	2150 rpm
3” / 23 hp	TS-80 / F2L2011	Direct	30 l/sec	36 mtrs	26 l/sec @ 28 mtrs	2150 rpm
3” / 36 hp	TS-80H / D910L3	Direct	24 l/sec	60 mtrs	21 l/sec @ 52 mtrs	2150 rpm
3” / 36 hp	TS-80H / F3L2011	Direct	24 l/sec	60 mtrs	21 l/sec @ 52 mtrs	2150 rpm
4” / 32 hp	TS-100 / D910L3	Direct	46 l/sec	30 mtrs	38 l/sec @ 22 mtrs	1900 rpm
4” / 32 hp	TS-100 / F3L2011	Direct	46 l/sec	30 mtrs	38 l/sec @ 22 mtrs	1900 rpm
4” / 41 hp	TS-100 / F3L912	Direct	48 l/sec	36 mtrs	38 l/sec @ 28 mtrs	1950 rpm
4” / 48 hp	TS-100H / F4L2011	Direct	44 l/sec	60 mtrs	37 l/sec @ 54 mtrs	2150 rpm
6” / 44 hp	TS-150 / F4L912	Direct	90 l/sec	32 mtrs	77 l/sec @ 22 mtrs	1550 rpm
6” / 52 hp	TS-150 / F4L914	Direct	90 l/sec	32 mtrs	77 l/sec @ 22 mtrs	1550 rpm
6” / 86 hp	TS-150H / F6L912	Direct	83 l/sec	57 mtrs	72 l/sec @ 51 mtrs	1950 rpm
8” / 77 hp	TS-200 / F6L912	G/Box	160 l/sec	30 mtrs	120 l/sec @ 18 mtrs	1250 / 1850 rpm
10” / 75 hp	TS-250 / F6L912	G/Box	200 l/sec	25 mtrs	150 l/sec @ 18 mtrs	1150 / 1700 rpm
12” / 77 hp	TS-300 / F6L912	G/Box	280 l/sec	25 mtrs	210 l/sec @ 16 mtrs	950 / 1800 rpm
12” / 129 hp	TS-300 / BF6L914	G/Box	350 l/sec	42 mtrs	300 l/sec @ 25 mtrs	1250 / 1850 rpm



Water
Don't let it pass you by!

DEUTZ POWERED PUMPS

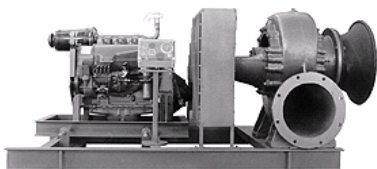
Diesel Engine Powered Pumps – centrifugal 6” – 20”

STD Scope: Centrifugal pump to Deutz diesel engine Power Pak, battery and leads fitted, channel steel base frame, coupling or v-belt guard.
Direct coupled inline drive with stubshaft and tyre flex flexible coupling
V-belt drive. Up to 10” pumps – engine with stubshaft 12” to 20” with PTO clutch fitted

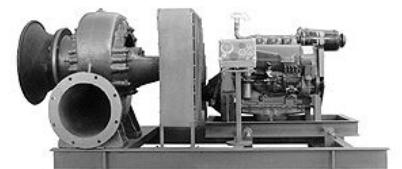
Options:

- Murphy shutdown panel
- Pump sets built to your specifications e.g. skid base, trailer mounted, mine specification
- Fuel tank built into base frame
- Single point lifting frame fitted
- Pump connections: hose tails, flanges, Camlock, quick couplings like Bauer, Anfor or Ferrari
- Roof hood cover fitted over engine drive assembly
- Engine and pump controls e.g. automatic start/stop, time clock, float switches
- Non return check valves, foot valves, butterfly valves
- Vacuum priming systems
- Mechanical seal options
- Emergency stop, battery isolation, fire extinguisher

Size / Power	Pump / Engine	Drive Type	Maximum Volume	Maximum Head	Nominal Duty	Pump Speed
8” / 30 hp	8HBG35 / D910L2	V belt	150 l/sec	13 mtrs	152 l/sec @ 8 mtrs	1450 rpm
8” / 29 hp	8HBG35 / F2L2011	V belt	150 l/sec	13 mtrs	152 l/sec @ 8 mtrs	1450 rpm
8” / 36 hp	8HBG35 / F4L2011	Direct	170 l/sec	16 mtrs	139 l/sec @ 12 mtrs	1600 rpm
8” / 35 hp	8HBG35 / F3L912	Direct	170 l/sec	16 mtrs	139 l/sec @ 12 mtrs	1600 rpm
10” / 29 hp	10HBG30 / F2L2011	V belt	230 l/sec	10 mtrs	160 l/sec @ 10 mtrs	1200 rpm
10” / 29 hp	10HBG30 / F3L2011	V belt	230 l/sec	10 mtrs	160 l/sec @ 10 mtrs	1200 rpm
10” / 47 hp	10HBG40 / F3L912	V belt	200 l/sec	14 mtrs	169 l/sec @ 12 mtrs	1450 rpm
10” / 53 hp	10HBG40 / F4L914	Direct	250 l/sec	20 mtrs	221 l/sec @ 12 mtrs	1650 rpm
12” / 29 hp	12HBG40 / F2L2011	V belt	290 l/sec	8 mtrs	216 l/sec @ 7 mtrs	1000 rpm
12” / 48 hp	12HBG40 / F3L912	V belt	330 l/sec	12 mtrs	255 l/sec @ 9 mtrs	1200 rpm
12” / 55 hp	12HBG40 / F4L912	V belt	360 l/sec	14 mtrs	272 l/sec @ 11 mtrs	1200 rpm
12” / 70 hp	12HBG40 / F4L914	V belt	390 l/sec	16 mtrs	345 l/sec @ 10 mtrs	1300 rpm
16” / 44 hp	400HW7 / F3L912	V belt	440 l/sec	8 mtrs	358 l/sec @ 6 mtrs	730 rpm
16” / 59 hp	400HW7 / F4L912	V belt	470 l/sec	10 mtrs	400 l/sec @ 8 mtrs	810 rpm
16” / 70 hp	400HW7 / F4L914	V belt	500 l/sec	12 mtrs	408 l/sec @ 9 mtrs	850 rpm
20” / 59 hp	500HW6 / F4L912	V belt	520 l/sec	8 mtrs	486 l/sec @ 6 mtrs	550 rpm
20” / 70 hp	500HW6 / F4L914	V belt	560 l/sec	12 mtrs	515 l/sec @ 8 mtrs	600 rpm
20” / 95 hp	500HW6 / F6L912	V belt	590 l/sec	13.5 mtrs	578 l/sec @ 9 mtrs	650 rpm
20” / 110 hp	500HW6 / F6L914	V belt	639 l/sec	14 mtrs	628 l/sec @ 10 mtrs	690 rpm



Water
Don't let it pass you by!



DEUTZ POWERED PUMPS

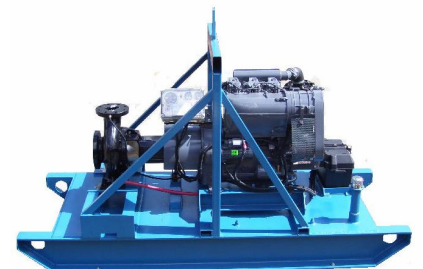
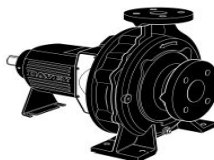
Diesel Engine Powered Pumps – ISO Series

STD Scope: Davey – ISO centrifugal pump, inline drive to Deutz diesel engine Power Pak, battery and leads fitted, channel steel skid base frame, coupling guard.
Direct coupled inline drive with stubshaft and tyre flex flexible coupling

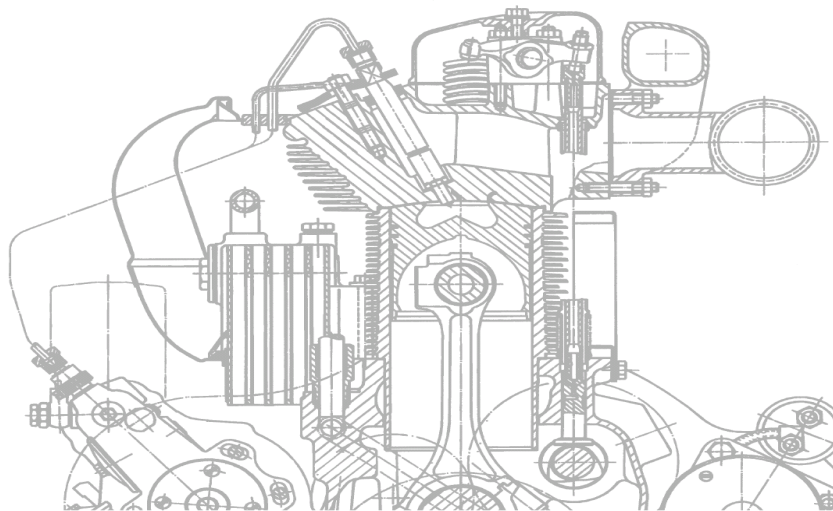
Options:

- Murphy shutdown panel
- Pump sets built to your specifications e.g. skid base, trailer mounted, mine specification
- Fuel tank built into base frame
- Single point lifting frame fitted
- Pump connections: hose tails, flanges, Camlock, quick couplings like Bauer, Anfor or Ferrari
- Roof hood cover fitted over engine drive assembly
- Engine and pump controls e.g. automatic start/stop, time clock, float switches
- Emergency stop, battery isolation, fire extinguisher

Size / Power	Pump / Engine	Drive Type	Max. Volume	Max. Head	Nominal Duty	Pump Speed
2.5" x 1.5" / 25 hp	65 x 40–250 / F2L2011	Direct	14 l/sec	90 mtrs	13 l/sec @ 76 mtrs	2700 rpm
2.5" x 1.5" / 50 hp	65 x 40–315 / F4L2011	Direct	15 l/sec	145 mtrs	13 l/sec @ 135 mtrs	2800 rpm
3" x 2" / 25 hp	80 x 50–200 / F2L2011	Direct	27 l/sec	58 mtrs	20 l/sec @ 52 mtrs	2600 rpm
3" x 2" / 38 hp	80 x 50–250 / F3L2011	Direct	28 l/sec	80 mtrs	20 l/sec @ 75 mtrs	2500 rpm
3" x 2" / 50 hp	80 x 50–315 / F4L2011	Direct	24 l/sec	110 mtrs	20 l/sec @ 96 mtrs	2400 rpm
4" x 2.5" / 23 hp	100 x 65–200 / F2L2011	Direct	45 l/sec	40 mtrs	35 l/sec @ 32 mtrs	2200 rpm
4" x 2.5" / 38 hp	100 x 65–200 / F3L2011	Direct	48 l/sec	56 mtrs	35 l/sec @ 52 mtrs	2600 rpm
4" x 2.5" / 50 hp	100 x 65-250 / F4L2011	Direct	48 l/sec	70 mtrs	35 l/sec @ 64 mtrs	2400 rpm
4" x 2.5" / 70 hp	100 x 65-315 / F4L914	Direct	45 l/sec	85 mtrs	35 l/sec @ 80 mtrs	2200 rpm
5" x 3" / 127 hp	125 x 80-400 / BF6L914	Direct	56 l/sec	140 mtrs	40 l/sec @ 130 mtrs	2100 rpm
5" x 3" / 152 hp	125 x 80-400 / BF6L914C	Direct	56 l/sec	150 mtrs	35 l/sec @ 150 mtrs	2200 rpm
5" x 4" / 50 hp	125 x 100-200 / F4L2011	Direct	90 l/sec	45 mtrs	70 l/sec @ 39 mtrs	2400 rpm
5" x 4" / 72 hp	125 x 100-250 / F4L914	Direct	80 l/sec	60 mtrs	65 l/sec @ 52 mtrs	2200 rpm
5" x 4" / 95 hp	125 x 100-315 / F6L914	Direct	90 l/sec	92 mtrs	70 l/sec @ 80 mtrs	2200 rpm
5" x 4" / 138 hp	125 x 100-400 / BF6L914	Direct	72 l/sec	90 mtrs	60 l/sec @ 96 mtrs	1800 rpm
5" x 4" / 196 hp	125 x 100-500 / BF6M1015	Direct	80 l/sec	150 mtrs	70 l/sec @ 100 mtrs	1800 rpm
6" x 5" / 91 hp	150 x 125-250 / F6L912	Direct	150 l/sec	46 mtrs	110 l/sec @ 38 mtrs	2000 rpm
6" x 5" / 110 hp	150 x 125-250 / F6L914	Direct	160 l/sec	58 mtrs	110 l/sec @ 48 mtrs	2200 rpm
6" x 5" / 147 hp	150 x 125-315 / BF6L914	Direct	140 l/sec	76 mtrs	120 l/sec @ 60 mtrs	2000 rpm
6" x 5" / 196 hp	150 x 125-400 / BF6M1013CP	Direct	130 l/sec	104 mtrs	110 l/sec @ 84 mtrs	1800 rpm
6" x 5" / 300 hp	150 x 125-500 / BF6M1015C	Direct	130 l/sec	160 mtrs	110 l/sec @ 128 mtrs	1800 rpm
8" x 6" / 118 hp	200 x 150-315 / BF6L914	Direct	190 l/sec	56 mtrs	150 l/sec @ 46 mtrs	1800 rpm
8" x 6" / 198 hp	200 x 150 / 400 / BF6M1015	Direct	180 l/sec	82 mtrs	150 l/sec @ 67 mtrs	1800 rpm
8" x 6" / 300 hp	200 x 150-500 / BF8M1015C	Direct	200 l/sec	125 mtrs	150 l/sec @ 100 mtrs	1800 rpm
10" x 8" / 198 hp	250 x 200-315 / BF6M1013CP	Direct	310 l/sec	54 mtrs	250 l/sec @ 44 mtrs	1800 rpm
10" x 8" / 300 hp	250 x 200-400 / BF8M1015C	Direct	310 l/sec	85 Mtrs	250 l/sec @ 72 mtrs	1800 rpm



NOTES



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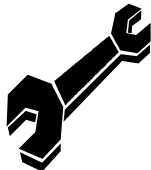
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