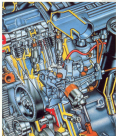


JUD

DIESEL

ENGINES



Models from 41.8 kW/57 hp to 80 kW/111 hp *



13 300 100

13 300 100

13 300 100

13 300 100

13 300 100

Being prepared for a range of weather, Rapid Climax helps build from the base layer and the insulation underneath to the PVA Group.

PERFORMANCE

- The VAP system was specifically designed to suit a number of different roof structures.
- The overall weight is reduced through full in-plane protection.
- Consistent performance (WWT) - Considerable for most roof types.

QUALITY & DURABILITY

- Stringent quality control applied throughout the production process.
- Full aftercare support depending on the particular circumstances of the installation. For example, 24h response to the VAP+ system.
- Exceptionally proven, more than 10 years' field experience in service.

OPERATOR COMFORT

- Low operating temperature with no need for special protective clothing.
- Low pollution, including any unique sensitive location systems.
- Low fire risk due to fireproof insulation that is non-toxic, non-flammable and without halogen gases.
- Full range fulfilled by application system, effective to 20°C (- 4°F).

ECONOMY

- Very low fuel consumption - comparable with regular.
- Maintenance-free (20 years' life) on most roof types - ideal for cyclical fuel management site applications.

ADAPTATION EASE

- Compact structure for use in restricted spaces and situations.
- Consistent also include local and national special conditions - provide flexibility and no-time delay. Rapid Climax system has the best price-weight ratio in the market.
- Proven and compatible. Rapid Climax provides safety of the roof structure. In VAP+ design full fire-resistance.
- Heavy duty in the construction of roofs and systems.

JUD 7 FAMILY



ENGINE MODEL	JUD7	JUD71	JUD7E
Displacement	1.78litre	1.88litre	1.78litre
Bore x Stroke	60 x 60	60 x 60	60 x 60
Fuel Injection	Indirect	Indirect	Indirect
Intake Valve	90°	90°	90°
Compression ratio	20.1:1	22.1:1	22.1:1
Engine Mounting	vertically supported	retrocharged	retrocharged & inverted
Maximum power (DIN) 1800	45.3 kW	51.5 kW	54.9 kW
Maximum speed	4000 rpm	4200 rpm	4200 rpm
Maximum torque (DIN) 1800	127 Nm @ 2600 rpm	137 Nm @ 2600 rpm	177 Nm @ 2600 rpm
W Speed	2000 rpm	2000 rpm	2000 rpm
Engine configuration	4 cylinders in line	4 cylinders in line	4 cylinders in line
Dry weight	130 kg (140 lbs)	130 kg (140 lbs)	130 kg (140 lbs)
Cylinder Head	cast iron	cast iron	cast iron
Cylinder Block	light alloy	light alloy	light alloy
Crankshaft	cast iron	cast	cast
Camshaft	cast iron	cast iron	cast iron



KUDP FAMILY



Automotive application

ENGINE	BL604	KUDVE17
Displacement	1800cc	1800cc
Bore x stroke	82 mm x 80 mm	82 mm x 80 mm
Valve position	In-line	In-line
Injection valve	2 per cylinder	2 per cylinder
Injection pump	DP	DP
Compression ratio	20.7:1	20.8:1
Engine layout	normally aspirated	turbocharged (intercooled)
Maximum power (kW) (DIN)	112.4 kW	112.4 kW
Maximum speed	4000 rpm	4000 rpm
Maximum torque (kNm) (DIN)	2.67 kNm	2.67 kNm
# Gears	2000 rpm	2000 rpm
Power/weight	1.7 kg/kWh	1.6 kg/kWh
Engine architecture	injection in line	injection in line
Engine block	cast iron	cast iron
Cylinder head	light alloy	light alloy
Crankshaft	cast iron	cast iron
Camshaft	cast iron	cast iron
Construction	block & head	block & head



Fig. 10.8



The data values are according to manufacturer's data sheet specifications. They are not to be used for other applications.

XUD FAMILY



Industrial applications

ENGINE	XUD9A	XUD11T	XUD13A
Configuration	90° V	90° V	90° V
Bore x Stroke	80 mm x 80 mm	80 mm x 80 mm	80 mm x 82 mm
Performance	2-cylinder	2 per cylinder	2 per cylinder
Number of valves	2	2	2
Intake valve	25° I	25° I	25° I
Compression ratio	separately regulated at 4.5:1	separately regulated 12.5:1	separately regulated at 4.5:1
Cylinder head	cast iron	cast iron	cast iron
Maximum power (DIN 1502)	3000 rpm	3000 rpm	3000 rpm
Maximum speed (DIN 1502)	3300 rpm	3300 rpm	3300 rpm
Weight	140 kg	140 kg	140 kg
Dry weight	120 kg	120 kg	120 kg
Supercharger	4 cylinders in line cast iron	4 cylinders in line cast iron	4 cylinders in line cast iron
Supercharger	light alloy	light alloy	light alloy
Cylinder	cast	cast	cast
Crankshaft	cast	cast	cast
Camshaft	cast	cast	cast
Injection pump	DIN 1502	DIN 1502	DIN 1502



For detailed information, please refer to the Kubota XUD series technical manual. For more information, visit www.kubota.com.

XUD9 FAMILY



ENGINE MODEL	XUD9	XUD9A	XUD9E
Displacement	1995 cc	1995 cc	1995 cc
Bore x stroke	73 x 88	73 x 88	73 x 88
Fuel injection	Indirect	Indirect	Indirect
Compression ratio	9.1	9.1	9.1
Compression ratio	25.1:1	25.1:1	25.1:1
Engine breathing	naturally aspirated	N/A, mechanical	naturally aspirated & turbocharged
Maximum power (DIN) (kW)	44.0 kW	54.0 kW	67.0 kW
Maximum speed	4800 rpm	4800 rpm	4800 rpm
Maximum torque (DIN) (Nm)	110 Nm @ 2700 rpm	130 Nm @ 2600 rpm	146 Nm @ 2600 rpm
90 Speed	2000 rpm	2000 rpm	2200 rpm
Engine configuration	4 cylinders in-line	4 cylinders in-line	4 cylinders in-line
Oil weight	100 kg x 100 lbs	100 kg x 100 lbs	100 kg x 100 lbs
Cylinder block	cast iron	cast iron	cast iron
Cylinder head	light alloy	light alloy	light alloy
Crankshaft	cast iron	cast iron	cast
Camshaft	cast iron	cast iron	cast



Figures shown are according to manufacturer's description procedure. There could be an additional information.

KUDDAI

Indirect Injection Diesel engine

Displacement	1.984 cc
Bore x Stroke	68 x 68 mm
Feed Injection	Indirect
Number of valves	2 per cylinder
Exhausting	11 to 10°
Compression ratio	22.7 : 1
Engine mounting	Naturally aspirated
Maximum power*	41.4 kW (56 hp)
R speed	2400 rpm
Maximum torque*	130 Nm
R speed	2000 rpm
Dry weight	130 kg
Engine architecture	4 cylinders in line
Combustion Chamber	Wetted Cast-iron
Engine block	Cast iron
Cylinder head	Light alloy
Crankshaft	Cast iron
Camshaft	Overhead
Injection pump	Lucas BPC



6V CYL, 2000



XUD9BT

Indirect Injection Diesel engine



Displacement	1,995 cc
Bore x stroke	85 x 88 mm
Fuel injection	Indirect
Number of valves	2 per cylinder
Engine timing	90°
Compression ratio	22.5/1
Engine breathing	Submerged and inverted
Maximum power*	66.25 CV (48.5 kW)
0 to 100 km/h	14.88 sec
Maximum torque*	19.7 Nm
0 to 100 km/h	12.96 sec
Dry weight	120 kg
Engine architecture	4 cylinders in line
Cooling system/Chamber	Water Cooling
Engine block	Cast iron
Cylinder head	Aluminum alloy
Crankshaft	Steel
Camshaft	Overhead
Injection pump	Bosch VP 38



Fig. 100000

0 270 900 200



XUD9TI

Indirect Injection Diesel engine

Displacement	1,995 cc
Bore x Stroke	80 x 88 mm
Fuel Injection	Indirect
Number of valves	2 per cylinder
Engine timing	15 to 20°
Compression ratio	23.5:1
Engine mounting	Truck
Maximum power*	55 kW (75 hp)
R Speed	3,600 rpm
Maximum torque*	170 Nm
R Speed	2,400 rpm
Dry weight	150 kg
Engine architecture	4 cylinders in line
Combustion Chamber	Swirl-Cooled Y
Engine block	Cast iron
Cylinder head	Aluminum
Control	Mech
Control	Overhead
Injection pump	Lucas-DP



Fig. 1.10.10



Fig. 1.10.11



XUD95D

Indirect Injection Diesel engine

Engine type	Light car
Bore x stroke	65 x 66 mm
Fuel injection	Indirect
Number of valves	2 per cylinder
Engine timing	90°
Compression ratio	21.5:1
Engine mounting	Eight bolts
Maximum power*	44 kW (71 hp)
0 speed	4,000 rpm
Maximum torque*	125 Nm
0 speed	4,200 rpm
Dry weight	108 kg
Engine architecture	4 cylinders in line
Combustion chamber	Wet-sump, Castrol V
Engine block	Cast iron
Cylinder head	Light alloy
Crankshaft	Cast iron
Camshaft	Cast iron
Injection pump	Lucas



Fig. 1000



Fig. 1001



XUD11 FAMILY



ENGINE MODEL	XUD11A	XUD11B	XUD11E
Displacement	2191 cc	2191 cc	2191 cc
Bore x Stroke	86 x 92	86 x 92	86 x 92
Valve train	Indirect	Indirect	Indirect
Intake valve	52°	52°	52°
Compression ratio	20.7 : 1	21.5 : 1	20.7 : 1
Engine timing	electronically controlled	mechanical	electronically controlled
Maximum power (ISO 1585)	55.1 kW	55.1 kW	55.1 kW
Maximum speed	4000 rpm	3600 rpm	4000 rpm
Maximum torque (ISO 1585)	140 Nm (102.2 lb-ft)	144 Nm (105.2 lb-ft)	140 Nm (102.2 lb-ft)
# Speed	2000 rpm	2400 rpm	2000 rpm
Engine cooling fan	4 cylinders in line	4 cylinders in line	4 cylinders in line
Dry weight	136 kg (299.5 lb)	147 kg (324.0 lb)	133 kg (292.5 lb)
Cylinder block	cast iron	cast iron	cast iron
Cylinder head	aluminum	light alloy	aluminum
Crankshaft	cast iron	cast iron	cast iron
Camshaft	cast iron	cast iron	cast iron



XUD11 FAMILY



Automotive applications

ENGINE	XUD11A	XUD11BE
Displacement	2178 cc	2088 cc
Bore x stroke	86 mm x 72 mm	81 mm x 70 mm
Valve position	injection	injection
Number of valves	2 per cylinder	2 per cylinder
Compression ratio	10 ¹	10 ¹
Compression	21.5:1	21.2:1
Engine breathing	naturally aspirated	naturally aspirated & intercooled
Maximum power (DIN) (kW)	44.7 @ 5000	45.0 @ 5000
Maximum speed	175 km/h	180 km/h
Maximum torque (DIN) (kgm)	20.0 @ 3000	20.0 @ 3000
Oil pump	17.5 kg	17.5 kg
Oil weight	4 cylinders in line	4 cylinders in line
Engine architecture	cast iron	cast iron
Engine block	light alloy	light alloy
Cylinder head	cast	cast
Crankshaft	cast/steel	cast
Crank	cast/steel	cast/steel
Spark plug	steel/steel	steel/steel



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Model	a	b	c	d	e	f	g	h
800T	74	70	64.4	43	191	60	265	87
800T4	70	70	60	40	191	60	265	87
800T4i	70	70	61.1	40	191	60	265	87
800T4i 16V	70	70	64	43	191	60	265	87



Model	a	b	c	d	e	f	g	h
800T 16	70	70	61.1	40	191	60	265	87
800T 16i	70	70	61.1	40	191	60	265	87
800T 16i 16V	70	70	61.1	40	191	60	265	87



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