



## 175AN DIESEL ENGINE

### Technical specifications

Model	R175AN
Type	horizontal 4-stroke
Combustion system	Preheated
Bore × Stroke mm	75 × 80 mm
Total displacement(L)	0.353 L
Compression ratio	22
Rated output	4.41 kW( 6.0 HP) 2600 r/min
Max output	4.85 kW( 6.6 HP) 2600 r/min
Specific fuel	289.7 g/kW.h
Cooling system consumption	Condenser
lubrication system	Combined Pressure and Splashing
Starting system	Hand cranking
Net Weight	≤60 kg
Power output axis	crank
Operation direction of output axis	left(view in the direction of output axis)
Fuel/lubricate	use 0# in summer,use-10#in winter,-20#light dresel oil/SEA 10W30
Volume of oil tank	4.0 L
Volume of lubricate	2.00 L
Recommended starting system	over 12V-28AH
overall dimensions (L×W×H)(mm)	700×341×525



## 178F DIESEL ENGINE

### Technical specifications

Engine Type	Single cylinder, 4-stroke, Vertical, air-cooled, direct injection	
Bore xStroke [mm (in)]	78(3.07) x 62(2.44)	
Displacement [cm <sup>3</sup> (cu-in)]	296(18.06)	
Ignition sequence	----	
Compression ratio	20:1	
Rated power [kW (Hp)/rpm]	3.7(5.1)/3000	4.0(5.5)/3600
Rated speed (rpm)	3000/3600	
Max torque/Rotation speed (Nm/rpm)	----	
Mix fuel consumption [g (ml)/kWh]	3000r/min: 276.1(378) 3600r/min: 285.6(391)	
Max stable speed at empty load (rpm)	----	
Idle speed (rpm)	----	
Exhaust smoke degree FSN	----	
Starting system	Recoil starter	
Rotation direction(view from the wheel)	Clockwise	
Fuel type	0# (summer), -10# (winter) diesel oil	
Fuel tank capacity[L(US.gal)]	3.5(0.92)	
Lube brand	SAE10W30, above CC grade	
Lubrication system	----	
Lube capacity (crankcase) [L (US. gal)]	1.1(0.29)	
Overall dimension(LxWxH) [mm (in)]	383x421x450(15.07x16.57x17.72)	
Dry weight [kg (lbs)]	33(72.6)	



## 168FA GASOLINE ENGINE

### Technical specifications

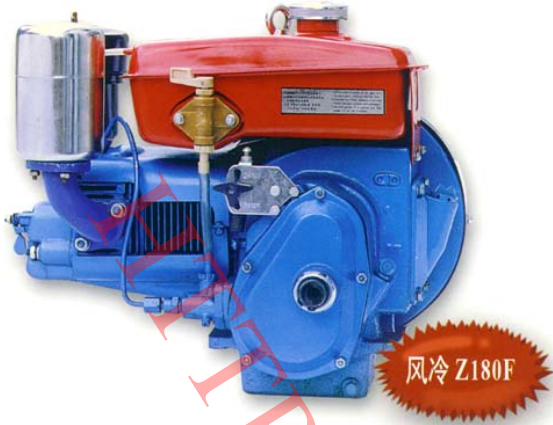
Model	168FA
Type	OHV25° Single Cylinder, Forced Air Cooling, 4-Stroke
Rated Power	3.2
Max. Torque	10.5
Fuel Consumption	≤395
Min. Stable Idle Speed	1350±100
Noise	104db (A)
Cylinder Dia.	68
Stroke	45
Displacement	163
Compression Ratio	8.5: 1
Lubricating Mode	Splashing
Starting Mode	Manual Kick Back Starting
Igniting Mode	Transistor Electric, Inductive Firing
Packing Size (L×W×H)	425×390×415
Net Weight	15



## 170F DIESEL ENGINE

### Technical specifications

Model	170F
Type	Horizontal、4—Stroke
Combustion system	Swirl combustion chamber
Bore*stroke (mm)	70×70
Compression ratio	21±1
1—hour rated output (kW/r/min)	3.23/2600
12—hour rated output (kW/r/min)	2.94/2600
Specific fuel consumption (g/Kw·h)	≤289.7
Specific lube oil consumption (g/Kw·h)	≤3.60
Cooling system	Forced Air-cooled
Lubrication system	Combined pressure and splash ing
Starting method	Hand cranking
Net weight (kg)	44
Method of power output	Output of flywheel end



## Z180F DIESEL ENGINE

### Technical Parameter

MODEL	Z180F	Z180F-D
Type	Horizontal 4-strok	
Type of combustion chamber	Swirl combustion chamber	
No. of cylinder Bore*Stroke (mm)	1-80x75	
Displacement L	0.377	
Compression ratio	21	
Declared power (KW)	4.41	
Declared speed (r/min)	2600	
Specific fuel consumption (g/KW.h)	280.2	
Cooling method	Air-cooled	
Lubrication method	Centrifugal lubrication combined oil mist and splash	
Starting method	Hand starting	Electrical starting
Net weight (KG)	48	56
Overall dim (Lx W X H) (mm)	545x326x425	585x326x425
Packing dim (Lx W xH) (mm)	614X414X498	670X414X498