11/2022

RATO

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VERTICAL ENGINES





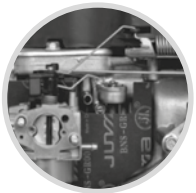


EUROPEAN STAGE 5 EXHAUST EMISSIONS COMPLIANT

HAPPINESS *comes from* THE *CREATION*



Modified body structure with more stable performance.



Easy start with auto choke.



Primer structure for better starting.



Side-located fuel tank.



Loc-style valve with longer working life.

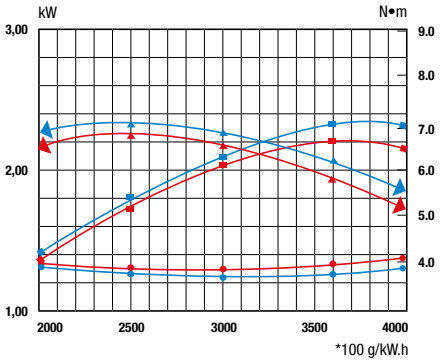
RV125-S

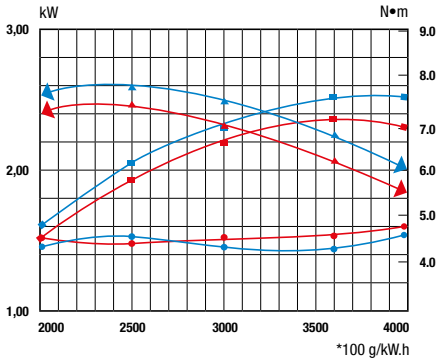


RV145-S



	RV125-S	RV145-S
Engine type	Single cylinder, 4-Stroke (OHV)	Single cylinder, 4-Stroke (OHV)
Bore x Stroke	61 x 43.5 mm	65 x 43.5 mm
Displacement	127,1 cc	144.3 cc
Compression ratio	8.3 : 1	7.8 : 1
Net power	2.0 kW / 3060 rpm	2.5 kW / 3060 rpm
Net torque	6.8 N.m / 2500 rpm	7.8 N.m / 2500 rpm
PTO shaft rotation	Counterclockwise (vertical output)	Counterclockwise (vertical output)
Ignition system	Transistorized magneto ignition	Transistorized magneto ignition
Starting system	Recoil starter	Recoil starter
Carburetor	Flat suction valve carburetor	Flat suction valve carburetor
Lubrication system	Forced splash	Forced splash
Governor system	Centrifugal mechanical	Centrifugal mechanical
Air cleaner	Foam elements (foam)	Foam elements
Oil capacity	0.4 L	0.4 L
Fuel tank capacity	0.8 L	0.8 L
Dimensions (L x W x H)	325 x 275 x 250 mm	325 x 275 x 250 mm
Net weight	7.2 kg	7.2 kg
Fuel consumption	6.8 g/kW • h	6.8 g/kW • h
Application	Lawn Mower	Lawn Mower, Tiller





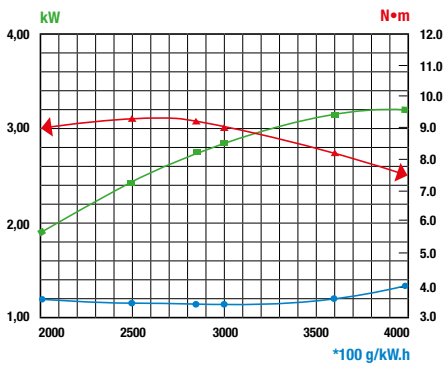
VERTICAL ENGINES

RV170-S



RV170-S

Engine type	Single cylinder, 4-Stroke (OHV)
Bore x Stroke	70 x 44.2 mm
Displacement	170.1 cc
Compression ratio	7.8 : 2
Net power	2.8 kW / 3060 rpm
Net torque	8.8 N.m / 2500 rpm
PTO shaft rotation	Counterclockwise (vertical output)
Ignition system	Transistorized magneto ignition
Starting system	Recoil starter
Carburetor	Flat suction valve carburetor
Lubrication system	Forced splash
Governor system	Centrifugal mechanical
Air cleaner	Foam elements
Oil capacity	0.4 L
Fuel tank capacity	0.8 L
Dimensions (L x W x H)	325 x 275 x 250 mm
Net weight	7.2 kg
Fuel consumption	6.8 g/kW • h
Application	Lawn Mower



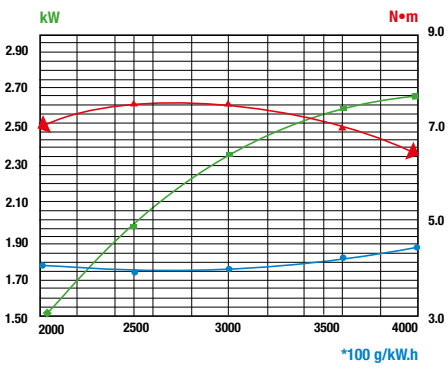
RVM120

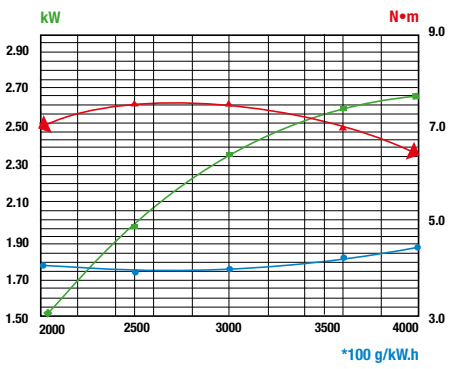


RV150



	RVM120	RV150
Engine type	Single cylinder, 4-Stroke (OHV)	Single cylinder, 4-Stroke (OHV)
Bore x Stroke	62 x 40 mm	65 x 45.2 mm
Displacement	120.7 cc	150 cc
Compression ratio	8.3 : 1	7.8 : 1
Net power	2.1 kW / 3600 rpm	2.5 kW / 3600 rpm
Net torque	6.8 N.m / 2500 rpm	7.8 N.m / 2500 rpm
PTO shaft rotation	Counterclockwise (vertical output)	Counterclockwise (vertical output)
Ignition system	Capacitance discharge type or inductance discharge type	Transistorized magneto ignition
Starting system	Recoil starter	Recoil / Electric starter
Carburetor	Flat suction valve carburetor	Flat suction valve carburetor
Lubrication system	Forced splash	Forced splash
Governor system	Centrifugal mechanical	Centrifugal mechanical
Air cleaner	Foam elements	Paper
Oil capacity	0.55 L	0.4 L
Fuel tank capacity	0.8 L	0.8 L ~ 1.2 L
Dimensions (L x W x H)	353 x 273 x 246 mm	375 x 325 x 280 mm
Net weight	7.7 kg	9.5 kg
Fuel consumption	≤ 450 g/kW • h	≤ 450 g/kW • h
Application	Lawn Mower, Tiller	Lawn Mower, Pressure Whaser, Tiller, Grass Trimmer





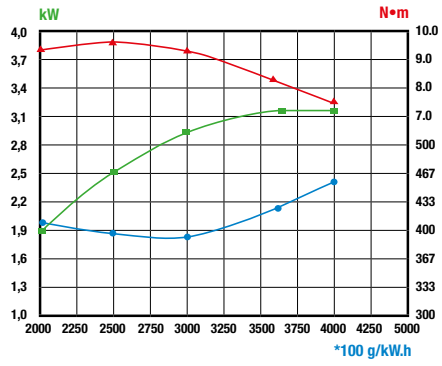
VERTICAL ENGINES



RV170



	RV170
Engine type	Single cylinder, 4-Stroke (OHV)
Bore x Stroke	70 x 45 mm
Displacement	173.3 cc
Compression ratio	7.8 : 1
Net power	3.2 kW / 3600 rpm
Net torque	9 N.m / 2500 rpm
PTO shaft rotation	Counterclockwise (vertical output)
Ignition system	Capacitance discharge type or inductance discharge type
Starting system	Recoil starter
Carburetor	Flat suction valve carburetor
Lubrication system	Forced splash
Governor system	Centrifugal mechanical
Air cleaner	Dual elements (foam)
Oil capacity	0.6 L
Fuel tank capacity	1 L
Dimensions (L x W x H)	395 x 348 x 282 mm
Net weight	12.5 kg
Fuel consumption	≤ 395 g/kW • h
Application	Lawn Mower, Pressure Whaser, Tiller



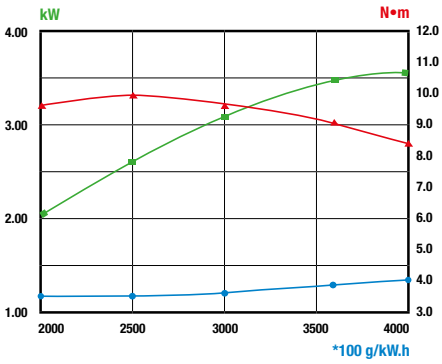
RV175

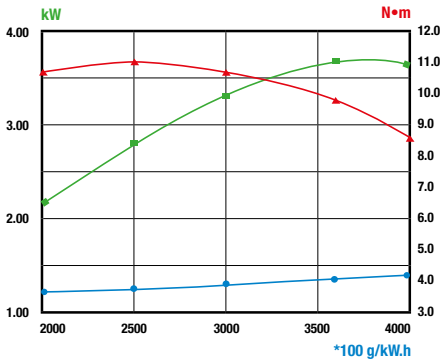


RV200



	RV175	RV200
Engine type	Single cylinder, 4-Stroke (OHV)	Single cylinder, 4-Stroke (OHV)
Bore x Stroke	70 x 45.2 mm	75 x 45.2 mm
Displacement	173.9 cc	200 cc
Compression ratio	8.3 : 1	8.3 : 1
Net power	3 kW / 3600 rpm	3.5 kW / 3600 rpm
Net torque	9.5 N.m / 2500 rpm	11 N.m / 2500 rpm
PTO shaft rotation	Counterclockwise (vertical output)	Counterclockwise (vertical output)
Ignition system	Transistorized magneto ignition	Transistorized magneto ignition
Starting system	Recoil / Electric starter	Recoil / Electric starter
Carburetor	Flat suction valve carburetor	Flat suction valve carburetor
Lubrication system	Forced splash	Forced splash
Governor system	Centrifugal mechanical	Centrifugal mechanical
Air cleaner	Paper	Paper / Foam elements
Oil capacity	0.5 L	0.5 L
Fuel tank capacity	1.0 L ~ 1.5 L	1.0 L ~ 1.5 L
Dimensions (L x W x H)	385 x 330 x 285 mm	370 x 330 x 285 mm
Net weight	9.0 kg	9.0 kg
Fuel consumption	≤ 395 g/kW • h	≤ 395 g/kW • h
Application	Lawn Mower, Pressure Whaser, Tiller, Grass Trimmer	Lawn Mower, Pressure Whaser, Tiller, Grass Trimmer





VERTICAL ENGINES

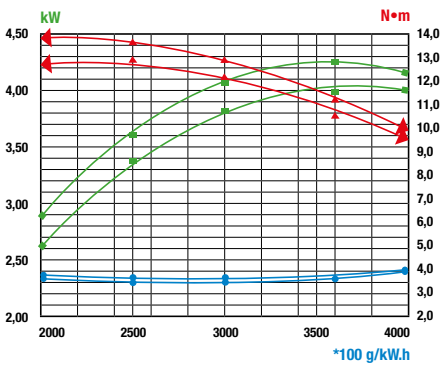
RV225

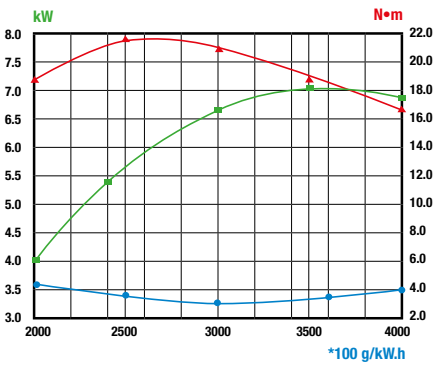


RV340



	RV225	RV340
Engine type	Single cylinder, 4-Stroke (OHV)	Single cylinder, 4-Stroke (OHV)
Bore x Stroke	70 x 58 mm	88 x 56 mm
Displacement	223 cc	340.6 cc
Compression ratio	8.3 : 1	8.0 : 1
Net power	4.0 kW / 3600 rpm	7.0 kW / 3600 rpm
Net torque	12.5 N.m / 2500 rpm	20 N.m / 2500 rpm
PTO shaft rotation	Counterclockwise (vertical output)	Counterclockwise (vertical output)
Ignition system	Transistorized magneto ignition	Transistorized magneto ignition
Starting system	Recoil / Electric starter	Recoil & Electric starter / Electric starter
Carburetor	Flat suction valve carburetor	Flat suction valve carburetor
Lubrication system	Forced splash	Forced splash
Governor system	Centrifugal mechanical	Centrifugal mechanical
Air cleaner	Dual elements (foam)	Dual elements (foam)
Oil capacity	0.6 L	1.1 L
Fuel tank capacity	1 L	3.5 L
Dimensions (L x W x H)	404 x 362 x 292 mm	415 x 460 x 320 mm
Net weight	14 kg	24.5 kg
Fuel consumption	≤ 395 g/kW • h	≤ 374 g/kW • h
Application	Lawn Mower, Pressure Whaser, Tiller	Lawn Mower, Pressure Whaser, Ride-on tractor





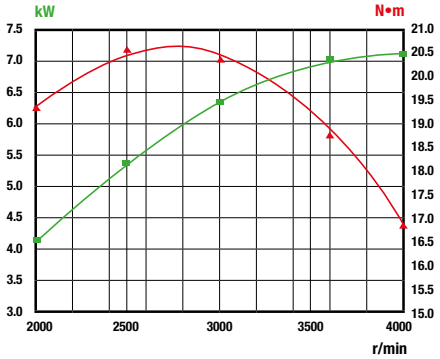
RV340D

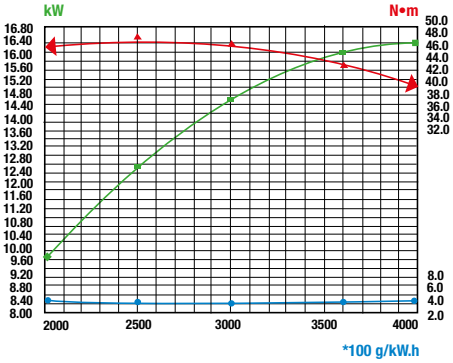


RV450



	ELECTRIC STARTER	ELECTRIC STARTER
	RV340D	**RV450**
Engine type	Single cylinder, 4-Stroke (OHV)	Single cylinder, 4-Stroke (OHV)
Bore x Stroke	88 x 56 mm	90 x 67.6 mm
Displacement	340.6 cc	449.4 cc
Compression ratio	8.0 : 1	8.9 : 1
Net power	7.0 kW / 3600 rpm	11 kW / 3600 rpm
Net torque	20 N.m / 2500 rpm	31 N.m / 2500 rpm
PTO shaft rotation	Counterclockwise (vertical output)	Counterclockwise (vertical output)
Ignition system	Transistorized magneto ignition	Capacitance discharge type or inductance discharge type
Starting system	Recoil & Electric starter / Electric starter	Recoil starter
Carburetor	Flat suction valve carburetor	Flat suction valve carburetor
Lubrication system	Forced splash	Forced splash
Governor system	Centrifugal mechanical	Centrifugal mechanical
Air cleaner	Dual elements (foam)	Dual elements (foam)
Oil capacity	1.1 L	1.5 L
Fuel tank capacity	---	---
Dimensions (L x W x H)	415 x 460 x 320 mm	463 x 460 x 302 mm
Net weight	24.5 kg	32.5 kg
Fuel consumption	≤ 374 g/kW • h	≤ 374/3600 r/min
Application	Lawn Mower, Pressure Whaser, Ride-on tractor	---





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