

SAITO Specifications							
Description - ENGINES	T1	T2DR	T2DR-L	T3DR	T2GR	Y2DR	S3R
Cylinders	1 Cyl	Vert Double Acting 2 Cyl	Vert Double Acting 2 Cyl	Vert Double Acting 3 Cyl	Vert Double Acting 2 Cyl	Horizontal D. A. 2 Cyl	Radial 3 Cyl
Suitable Boiler	OB1	B2F	B2F or B3	B3	B2G	B2F	BT-1
Bore	8.8 mm	12 mm	12 mm	12 mm	20mm	12 mm	8.8 mm
Stroke	12 mm	12 mm	20 mm	12 mm	20mm	20 mm	12 mm
Valve Form	piston valve	D Slide Valve	D Slide Valve	D Slide Valve	D Slide Valve	D Slide Valve	Piston Valve
No Load RPM (Approx)	3,000	6,000	3,500	5,700	3,600	3,500	3,000
Horse Power (Approx)	1 kg.cm	0.03 hp	0.035 hp	0.038 hp	0.1 hp	0.035 hp	0.01 hp
Pressure (per square cms)	-	2 kgs	2 kgs	2 kgs	2 kgs	2 kgs	2 kgs
Max Torque (Approx)	-	1,050 g.cm	1,150 g.cm	1,250 g.cm	3,00 g.cm	1,150 g.cm	0.45 g.cm
Length (mm)	60 mm	115 mm	115 mm	145 mm	177 mm	150 mm	65 mm
Width (mm)	45 mm	70 mm	70 mm	70 mm	96 mm	125 mm	100 mm
Height (mm)	70 mm	100 mm	127 mm	100 mm	126 mm	88 mm	83 mm
Weight (mm)	180 gm	675 gm	770 gm	915 gm	1,415 gm	930 gm	300 gm
Cylinder Capacity	0.64 cc	5.4 cc	9.0 cc	8.1 cc	25.0 cc	9.0 cc	2.0 cc
Recommended Boat Lgth (mm Approx)	700 - 1,000	1,000-1,300	1,000-2,000	1,200-2,000	1,200-3,000	1,000-1,500	800-1,000

Description - BOILERS / BURNERS	OB1	B2F	B3	B2G	B2E	BT-1
Burner Type	Roast Type	Centre Flow Type	Centre Flow Type	Centre Flow Type	Centre Flow Type	Vert Type
Suitable Engines	T1	T2DR,Y2DR, T2DR-L	T3DR,T2DR-L	T2GR	T2DR	S3R
Fuel	Alcohol/Methanol	Alcohol/Methanol	Alcohol/Methanol	Alcohol/Methanol	Alcohol/Methanol	Alcohol/Methanol
Length (mm)	125 mm	300 mm	350 mm	370 mm	250 mm	180 mm
Width (mm)	67 mm	75 mm	75 mm	125 mm	75 mm	75 mm
Height (mm)	105 mm	120 mm	120 mm	165 mm	125 mm	100 mm
Weight (grams)	200 gms	1,260 gms	1,600 gms	1,900 gms	820 gms	820 gms
Alcohol Fuel (use a measuring cup)	27 scale mark	100 scale mark	140 scale mark	250 scale mark	80 scale mark	40 scale mark
Burning Time (Approx)	15 mins	20 mins	20 mins	30 mins	15 mins	15 mins
Safety Valve	Boiler	1.5-2.5 kg/sqcm	1.5-2.5 kg/sqcm	1.5-2.5 kg/sqcm	1.5-2.5 kg/sqcm	1.5-2.5 kg/sqcm
working pressure (Approx)	Burner	0.5 kg/sqcm	0.5 kg/sqcm	0.5 kg/sqcm	0.5 kg/sqcm	1.5-2.5 kg/sqcm
Water Pipes (Boiler)		5 pipes	7 pipes	6 pipes	3 pipes	1 pipe
Resisting Pressure						
Boiler		35 kg/sqcm	35 kg/sqcm	15 kg/sqcm	35 kg/sqcm	50 kg/sqcm
Burner		60 kg/sqcm	60 kg/sqcm	50 kg/sqcm	60 kg/sqcm	10 kg/sqcm
Ordinary Use Pressure (Approx)						
Boiler		2 kg/sqcm	2 kg/sqcm	2 kg/sqcm	2 kg/sqcm	2 kg/sqcm
Burner		0.4 kg/sqcm	0.4 kg/sqcm	0.5 kg/sqcm	0.4 kg/sqcm	1.5-2.0 kg/sqcm

This information is copied from the Saito catalog