



3 HP SPECIFICATIONS

MODEL	JW	JH	JHL
WEIGHT	35 lbs.	35-1/2 lbs.	35-1/2 lbs.
POWER HEAD <ul style="list-style-type: none"> . Engine type . Certified horsepower* . Full throttle operating range . Piston displacement . Bore and stroke . Piston . Piston rings . Diameter of ring . Width of ring . Pressure required to compress ring . Crankshaft size <ul style="list-style-type: none"> . . top journal . . center journal . . bottom journal . Connecting rod crank pin 	Two cylinder, two cycle alternate firing, two port automatic intake 3.0 3500-4500 RPM 5.28 cubic inches 1-9/16" x 1-3/8" Available in standard and .020" oversize. (See Parts Catalog.) 2 per set - available in standard and .020" oversize. (See Parts Catalog.) 1.563" (standard) .0935" - .0925" 2 - 3-1/2 lbs. .6854" - .6849" .6854" - .6849" .6854" - .6849" .6255" - .6250"		
FUEL SYSTEM <ul style="list-style-type: none"> . Carburetion . Float level setting . Carburetor orifice plug . Inlet needle seat . Fuel tank capacity . Fuel pump 	Single barrel, float feed, low speed adjustment, manual choke Flush with casting .029 hole size .065" - .062" use a #52 drill as gage 0.7 U.S. gallon gravity feed tank mounted on the power head Available as an accessory for use with the 6 U.S. gallon suction type tank		
IGNITION SYSTEM <ul style="list-style-type: none"> . Ignition . Breaker point gap . Condenser capacity . Spark plug . Spark plug gap 	Flywheel magneto .020" .18 - .22 mfd AC-M42K, Champion J4J, Auto-Lite A21X - 14mm .030"		
SPEED CONTROL	Lever - synchronized throttle and spark		
STEERING	Handle - 360° pivot		
COOLING SYSTEM	Combination positive displacement - centrifugal pump		
STARTER	Manual rope, self rewind, ratchet and pawl type. Emergency rope.		
LOWER UNIT <ul style="list-style-type: none"> . Drive . Gear ratio . Propeller . Propeller drive pin . Transom height 	Direct - constant forward engagement		
	17:28		12:25
	2 blade, 6-1/8" diameter x 6-1/4" pitch		3 blade 8" diameter x 4-1/2" pitch
	1/8" x 13/16" stainless steel		
	15"		20"
15" extension kit is available as an accessory			

*Brake horsepower certified by O.B.C.



5 HP SPECIFICATIONS

MODEL	LD-11	LDL-11
WEIGHT (less fuel tank) . Weight of fuel tank (empty)	43 lbs. 12 lbs.	43-1/2 lbs.
POWER HEAD . Engine type . Certified horsepower* . Full throttle operating range . Piston displacement . Bore and stroke . Piston less rings . Piston rings . Diameter of ring . Width of ring . Pressure required to compress ring . Crankshaft size . . top journal . . center journal . . bottom journal . Connecting rod crankpin	Two cylinder, two cycle, alternate firing, two port automatic intake 5.0 3500 - 4500 RPM 8.84 cubic inches 1-15/16" x 1-1/2" Available standard and .020" oversize. (See Parts Catalog.) 3 per set Available standard and .020" oversize. (See Parts Catalog.) 1.9375" (standard) .0935" - .0925" 2 - 4 lbs. .8085" - .8080" .8080" - .8075" .8085" - .8080" .6690" - .6685"	
FUEL SYSTEM . Carburetion . Float level setting . Carburetor orifice plug . Inlet needle seat . Fuel tank capacity . Fuel pump	Single barrel, float feed, low speed adjustment. Manual choke. Flush with rim of casting .041 hole size .053" - .050" Use a #55 drill as gage. 6 U.S. gallons, suction type tank Crankcase pressure oscillated diaphragm type with filter	
IGNITION SYSTEM . Ignition . Breaker point gap . Condenser capacity . Spark plug . Spark plug gap	Flywheel magneto .020" .18 - .22 mfd. AC-M42K, Champion J4J, Auto-Lite A21X - 14mm .030"	
SPEED CONTROL	Lever - synchronize throttle and spark	
STEERING	Handle - 360° pivot	
COOLING SYSTEM	Combination positive displacement centrifugal pump. Thermostat available as an accessory.	
STARTER	Manual rope, self re-wind, gear drive. Emergency rope.	
LOWER UNIT . Drive . Gear ratio . Propeller . Propeller drive pin . Transom height	Direct, forward gear only 12:25 3 blade, 8" diameter x 7-1/2" pitch 1/8" x 1-1/4" stainless steel 15" 20" 15" extension kit is available as an accessory	

*Brake horsepower certified by O.B.C.



6 HP SPECIFICATIONS

MODEL	CD-23	CDL-23
WEIGHT (less fuel tank) · Weight of fuel tank (empty)	51 lbs. 12 lbs.	52 lbs.
POWER HEAD · Engine type · Certified horsepower* · Full throttle operating range · Piston displacement · Bore and stroke · Piston less rings · Piston rings · Diameter of ring · Width of ring · Pressure required to compress ring · Crankshaft size · . top journal · . center journal · . bottom journal · Connecting rod crankpin	Two cylinder, two cycle, alternate firing, two port automatic intake 6.0 4000 - 5000 RPM 8.84 cubic inches 1-15/16" x 1-1/2" Available standard and .020" oversize. (See Parts Catalog.) 3 per set Available standard and .020" oversize. (See Parts Catalog.) 1.9375" (standard) .0935" - .0925" 2 - 4 lbs. .8085" - .8080" .8080" - .8075" .8085" - .8080" .6690" - .6685"	
FUEL SYSTEM · Carburetion · Float level setting · Carburetor orifice plug · Inlet needle seat · Fuel tank capacity · Fuel pump	Single barrel, float feed, low speed adjustment. Manual choke. Flush with rim of casting .041 hole size .053" - .050" Use a #55 drill as gage. 6 U.S. gallon suction type tank Crankcase pressure oscillated diaphragm type with filter	
IGNITION SYSTEM · Ignition · Breaker point gap · Condenser capacity · Spark plug · Spark plug gap	Flywheel magneto .020" .18 - .22 mfd. AC-MA2K, Champion J4J, Auto-Lite A21X - 14mm .030"	
SPEED CONTROL	Twist grip on steering handle, synchronized throttle and spark	
STEERING	Handle - adaptable to remote control	
COOLING SYSTEM	Combination positive displacement centrifugal pump with thermostat control in power head.	
STARTER	Manual rope, self re-wind, gear drive. Emergency rope.	
LOWER UNIT · Drive · Gear ratio · Propeller · Propeller drive pin · Transom height	Forward, neutral, reverse, manual shift. Remote control available as an accessory. 15:26 2 blade, 8" diameter x 7-1/4" pitch 3/16" x 7/8" stainless steel 15" 20"	

*Brake horsepower certified by O.B.C.



9-1/2 HP SPECIFICATIONS

MODEL	MQ-12	MQL-12
WEIGHT (less fuel tank) . Weight of fuel tank (empty)	60 lbs.	61 lbs.
POWER HEAD . Engine type . Certified horsepower* . Full throttle operating range . Piston displacement . Bore and stroke . Piston less rings . Piston rings . Diameter of ring . Width of ring . Pressure required to compress rings . Crankshaft size . . top journal . . center journal . . bottom journal . Connecting rod crank pin	Two cylinder, two cycle, alternate firing, two port automatic intake 9.5 4000 - 5000 RPM 15.2 cubic inches 2-5/16" x 1-13/16" Available standard, .020" and .040" oversize. (See Parts Catalog.) 3 per set Available standard, .020" and .040" oversize. (See Parts Catalog.) 2.3125" (standard) .0935" - .0925" 3 - 5 lbs. .8125" - .8120" .8118" - .8113" .8125" - .8120" .8118" - .8113"	
FUEL SYSTEM . Carburetion . Float level setting . Carburetor orifice plug . Inlet needle seat . Fuel tank capacity . Fuel pump	Float feed, low speed adjustment, manual choke. .048 hole size .065" - .062" Use a #52 drill as gage. 6 U.S. gallon suction type tank Crankcase pressure oscillated diaphragm type with filter	
IGNITION SYSTEM . Ignition . Breaker point gap . Condenser capacity . Spark plug . Spark plug gap	Flywheel magneto .020" .18 - .22 mfd. AC-M42K, Champion J4J, Auto-Lite A21X - 14mm .030"	
SPEED CONTROL	Twist grip on steering handle, synchronize throttle and spark. Adaptable to remote control.	
STEERING	Handle - adaptable to remote control	
COOLING SYSTEM	Combination positive displacement centrifugal pump with thermostat control in power head.	
STARTER	Manual rope, self rewind, gear drive. Emergency rope.	
LOWER UNIT . Drive . Gear ratio . Propeller . Propeller drive pin . Transom height	Forward, neutral, reverse, manual shift. Remote control available as an accessory. 13:23 3 blade 8-1/4" diameter x 8-1/2" pitch 3/16" x 1-25/64" stainless steel 15" 20"	

*Brake horsepower certified by O.B.C.



20 HP SPECIFICATIONS

MODEL	FD-20	FDL-20
WEIGHT (less fuel tank) . Weight of fuel tank (empty)	77 lbs. 12 lbs.	80 lbs.
POWER HEAD . Engine type . Certified horsepower* . Full throttle operating range . Piston displacement . Bore and stroke . Piston less rings . Piston rings . Diameter of ring . Width of ring . Pressure required to compress ring . Crankshaft size . . top journal . . center journal . . bottom journal . Connecting rod crank pin	Two cylinder, two cycle, alternate firing, two port automatic intake 20.0 See Propeller Selection Chart 22 cubic inches 2-1/2" x 2-1/4" Available standard, .020" and .040" oversize. (See Parts Catalog.) 3 per set Available standard, .020" and .040" oversize. (See Parts Catalog.) 2.500" (standard) .0935" - .0925" 3 - 5 lbs. 1.0000" - .9995" 1.0000" - .9995" 1.0000" - .9995" 1.0005" - 1.0000"	
FUEL SYSTEM . Carburetion . Float level setting . Carburetor orifice plug . Inlet needle seat . Fuel tank capacity . Fuel pump	Single barrel, float feed, low speed adjustment, manual choke Flush with rim of casting .064 hole size .053" - .050" Use a #55 drill as gage. 6 U.S. gallon suction type tank Crankcase pressure oscillated diaphragm type with filter	
IGNITION SYSTEM . Ignition . Breaker point gap . Condenser capacity . Spark plug . Spark plug gap	Flywheel magneto .020" .25 - .29 mfd. AC-M42K, Champion J4J, Auto-Lite A21X - 14mm .030"	
SPEED CONTROL	Twist grip on steering handle, synchronized throttle and spark. Adaptable to remote control.	
STEERING	Handle - adaptable to remote control	
COOLING SYSTEM	Combination positive displacement centrifugal pump with thermostat control in power head	
STARTER	Manual rope, self rewind, ratchet and pawl. Emergency rope. Electric starter available as an accessory.	
LOWER UNIT . Drive . Gear ratio . Propeller supplied with motor . . optional . . optional . Propeller drive pin . Transom height	Forward, neutral, reverse, manual shift. Remote control available as an accessory. 12:21 Blade Diameter Pitch 3 9-1/4" x 11" 3 9" x 9" (weedless) 3 9" x 10" (weedless) 3-3/16" x 1-3/8" stainless steel 15" 20"	

*Brake horsepower certified by O.B.C.

33 HP SPECIFICATIONS

MODEL	RX-14	RXL-14	RXE-14	RXEL-14
WEIGHT (less fuel tank) . Weight of fuel tank (empty)	127 lbs. 12 lbs.	131 lbs.	140 lbs.	144 lbs.
POWER HEAD Engine type . Certified horsepower* . Full throttle range . Piston displacement . Bore and stroke . Piston less rings . Piston rings . Diameter of ring . Width of ring . Pressure required to compress ring . Crankshaft size . . top journal . . center journal . . bottom journal . Connecting rod crankpin	Two cylinder, two cycle, alternate firing, two port automatic intake 33.0 See Propeller Selection Chart 40.5 cubic inches 3-1/16" x 2-1/4" Available standard, .020" and .040" oversize. (See Parts Catalog.) 3 per set Available standard, .020" and .040" oversize. (See Parts Catalog.) 3.0625" (standard) .0935" - .0925" 6 - 9 lbs. 1.2500" - 1.2495" 1.0000" - .9995" 1.0000" - .9995" 1.1828" - 1.1823"			
FUEL SYSTEM . Carburetion . Float level setting . Inlet needle seat . Fuel tank capacity . Fuel pump	Single barrel, float feed, low speed and high speed adjustment Manual choke Electric choke Flush with rim of casting .065" - .062" 6 U.S. gallon suction type tank Crankcase pressure oscillated diaphragm type with filter			
IGNITION SYSTEM . Ignition . Breaker point gap . Condenser capacity . Spark plug . Spark plug gap	Flywheel magneto .020" .25 - .29 mfd. AC-M42K, Champion J4J, Auto-Lite A21X - 14mm .030"			
ELECTRICAL SYSTEM				10 amp DC generator is available as an accessory
SPEED CONTROL	Emergency throttle, synchronized throttle and spark. Remote control available as an accessory			
STEERING	Remote control or steering handle available as accessories			
COOLING SYSTEM	Combination positive displacement centrifugal pump			
STARTER	Manual rope, self rewind, ratchet and pawl type. Emergency rope.			12 volt electric
LOWER UNIT . Drive . Gear ratio . Propeller . . supplied with motor . . optional . . optional . . optional . Propeller drive pin . Transom height	Forward, neutral, reverse, manual shift. Remote control available as an accessory. 12:21 Blade Diameter Pitch 3 10-1/2" x 12" 3 10-3/8" x 11-1/2" 3 10-3/8" x 13-1/4" 3 10-3/8" x 14" 1/4" x 1-15/32" stainless steel 15" 20"			

*Brake horsepower certified by O.B.C.



40 HP SPECIFICATIONS

MODEL	RD-28	RDL-28	RDS-28	RDSL-28	RK-28	RKL-28		
WEIGHT (less fuel tank)	132 lbs.	138 lbs.	145 lbs.	151 lbs.	154 lbs.	159 lbs.		
. Weight of fuel tank (empty)	12 lbs.							
POWER HEAD <ul style="list-style-type: none"> . Engine type . Certified horsepower* . Full throttle operating range . Piston displacement . Bore and stroke . Piston less rings . Piston rings . Diameter of ring . Width of ring . Pressure required to compress ring . Crankshaft size <ul style="list-style-type: none"> . . top journal . . center journal . . bottom journal . Connecting rod crankpin 	Two cylinder, two cycle, alternate firing, two port automatic intake 40.0 See Propeller Selection Chart 43.9 cubic inches 3-3/16" x 2-3/4" Available standard and .025 oversize. (See Parts Catalog.) 3 per set Available standard and .025 oversize. (See Parts Catalog.) 3.1875" (standard) .0935" - .0925" 7 - 10.4 lbs. 1.2500" - 1.2495" 1.0000" - .9995" 1.0000" - .9995" 1.1828" - 1.1823"							
FUEL SYSTEM <ul style="list-style-type: none"> . Carburetion . Float level setting . Carburetor orifice plug . Inlet needle seat . Fuel tank capacity . Fuel pump 	Float feed, low speed adjustment <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 5px;"> <tr> <td style="width: 50%;">Manual choke</td> <td style="width: 50%;">Automatic and manual choke with electric assist</td> </tr> </table> Even with rim of casting, carburetor inverted, needle valve closed. .064 hole size .065" - .062" Use a #52 drill as gage. 6 U.S. gallon suction type tank Crankcase pressure oscillated diaphragm type with filter						Manual choke	Automatic and manual choke with electric assist
Manual choke	Automatic and manual choke with electric assist							
IGNITION SYSTEM <ul style="list-style-type: none"> . Ignition . Breaker point gap . Condenser capacity . Spark plug . Spark plug gap 	Flywheel magneto .020" .25 - .29 mfd. AC-M42K, Champion J4J, Auto Lite A21X - 14mm .030"							
ELECTRICAL SYSTEM				10 amp DC generator available as an accessory	10 amp DC generator furnished as standard equipment			
SPEED CONTROL	Emergency throttle synchronized with spark Remote control available as an accessory				Synchronized throttle and spark Remote shift and throttle control furnished with engine			
STEERING	Remote - not supplied with engine Steering handle available as an accessory					Steering handle not available		
COOLING SYSTEM	Combination positive displacement - centrifugal pump with thermostat control in power head							

*Brake horsepower certified by O.B.C.



60 HP SPECIFICATIONS

MODEL	VX-12	VXL-12	VXH-12	VXHL-12
WEIGHT (less fuel tank)	225 lbs.	230-1/2 lbs.	230-1/2 lbs.	236 lbs.
. Weight of fuel tank (empty)	12 lbs.			
POWER HEAD	Four cylinder V block, two cycle, two port automatic intake. Firing order 1, 2, 3, 4.			
. Engine type	60.0			
. Certified horsepower*	See Propeller Selection Chart			
. Full throttle operating range	70.7 cubic inches			
. Piston displacement	3" x 2-1/2"			
. Bore and stroke	Available standard, .020" oversize and .040 oversize. (See Parts Catalog.)			
. Piston less rings	3 per set Available standard, .020" and .040" oversize. (See Parts Catalog.)			
. Piston rings	3.000" (standard)			
. Diameter of ring	.0935" - .0925"			
. Width of ring	10 - 13 lbs.			
. Pressure required to compress ring	1.2658" - 1.2653"			
. Crankshaft size	1.3752" - 1.3748"			
. . top journal	1.1815" - 1.1810"			
. . center journal	1.1819" - 1.1812"			
. . bottom journal				
. Connecting rod crankpin				
FUEL SYSTEM	Two barrel, down draft, float feed, low speed adjustment. Manual and electric choke.			
. Carburetion	Parallel to and 1/4" from face of body - carburetor inverted, needle valve closed			
. Float level setting	.072 hole size			
. Carburetor orifice plug	.081" - .084" Use a #44 drill as gage.			
. Inlet needle seat	6 U.S. gallon suction type tank			
. Fuel tank capacity	Crankcase pressure oscillated diaphragm type with filter			
. Fuel pump				
IGNITION SYSTEM	Distributor type magneto			
. Ignition	.020"			
. Breaker point gap	.37 - .41 mfd.			
. Condenser capacity	AC-M42K, Champion J4J, Auto-Lite A21X - 14mm			
. Spark plug	.030"			
. Spark plug gap				
ELECTRICAL SYSTEM	DC generator available as an accessory			
SPEED CONTROL	Synchronized throttle and spark			
STEERING	Remote control only. Not supplied.			
COOLING SYSTEM	Combination positive displacement - centrifugal pump with thermostat control in power head			
STARTER	12 volt electric. Manual rope, self rewind, ratchet and pawl. Emergency rope.			
LOWER UNIT	Forward, neutral, reverse, manual shift. Remote control available as an accessory.			
. Drive	20:23		17:29	
. Gear ratio				
. Propeller	Blade Diameter Pitch		No propeller supplied - extra to be purchased by customer per dealer's selection for optimum performance	
. . supplied with motor	3 9-1/2" x 10"			
. . optional	3 10" x 9-1/4"			
. . optional	3 10" x 11"			
. . optional	3 10" x 12"			
. . optional	3 10-1/4" x 10"			
. Propeller drive pin	9/32" x 2-5/32"		5/16" x 1-7/8"	
. Transom height	15"	20"	15"	20"

*Brake horsepower certified by O.B.C.

80 HP SPECIFICATIONS

MODEL	V4S-18	V4SL-18	V4A-18	V4AL-18
WEIGHT (less fuel tank) . Weight of fuel tank (empty)	226-1/2 lbs. 12 lbs.	232 lbs.	240-1/2 lbs.	246 lbs.
POWER HEAD . Engine type . Certified Horsepower* . Full throttle operating range . Piston displacement . Bore and stroke . Piston less rings . Piston rings . Diameter of ring . Width of ring . Pressure required to compress ring . Crankshaft size . . top journal . . center journal . . bottom journal . Connecting rod crank pin	Four cylinder V block, two cycle, two port automatic intake. Firing order - 1, 2, 3, 4 80.0 See Propeller Selection Chart 89.5 cubic inches 3-3/8" x 2-1/2" Available standard, .020" and .040" oversize. (See Parts Catalog.) 3 per set Available standard, .020" and .040" oversize. (See Parts Catalog.) 3.375" (standard) .0935" - .0925" 9.7 - 13.7 lbs. 1.2658" - 1.2653" 1.3752" - 1.3748" 1.1815" - 1.1810" 1.1828" - 1.1823"			
FUEL SYSTEM . Carburetion . Float level setting . Carburetor orifice plug . Inlet needle seat . Fuel tank capacity . Fuel pump	Two barrel, down draft, float feed, low speed adjustment. Manual and automatic hot air with electric assist. Parallel to and 1/4" from face of body. Carburetor inverted, needle valve closed. .064" hole size .081" - .084" Use a #44 drill as gage 6 U.S. gallons suction type tank Crankcase pressure oscillated diaphragm type with filter			
IGNITION SYSTEM . Ignition . Breaker point gap . Condenser capacity . Spark plug . Spark plug gap	Distributor type magneto		Battery with distributor	
	.020" .37 - .41 mfd. AC-M42K, Champion J4J, Auto-Lite A21X - 14mm .030"			
ELECTRICAL SYSTEM	DC generator available as an accessory		AC generator furnished as standard equipment	
SPEED CONTROL	Remote control available as an accessory		Remote control furnished as standard equipment	
	Synchronized throttle and spark			
STEERING	Remote control only. Control not supplied.			
COOLING SYSTEM	Combination positive displacement - centrifugal pump with thermostat control in power head.			

*Brake horsepower certified by O.B.C.

100 HP SPECIFICATIONS

MODEL	V4ML-12
WEIGHT (less fuel tank) . Weight of fuel tank (empty)	272-1/2 lbs. 12 lbs.
POWER HEAD . Engine type . Certified horsepower* . Full throttle operating range . Piston displacement . Bore and stroke . Piston less rings . Piston rings . Diameter of ring . Width of ring . Pressure required to compress ring . Crankshaft size . . top journal . . center journal . . bottom journal . Connecting rod crankpin	Four cylinder V block, two cycle, two port automatic intake. Firing order - 1, 2, 3, 4 100.0 See Propeller Selection Chart 89.5 cubic inches 3-3/8" x 2-1/2" Available standard, .020" and .040" oversize. (See Parts Catalog.) 3 per set Available standard, .020" and .040" oversize. (See Parts Catalog.) 3.375" (standard) .0935" - .0925" 9.7 - 13.7 lbs. 1.2658" - 1.2653" 1.3752" - 1.3748" 1.1815" - 1.1810" 1.1828" - 1.1823"
FUEL SYSTEM . Carburetion . Float level setting . Carburetor orifice plug . Inlet needle seat . Fuel tank capacity . Fuel pump	Four barrel, float feed, low speed adjustment. Automatic hot air and manual choke. Electric assist. 9/16" between float and point on each chamber bottom 5/16" in from front inside surface of chamber with casting inverted, float needle valves closed. Float gage available as special service tool. (See Special Tool Catalog.) .065 hole size .050" - .053" Use a #55 drill as gage. 6 U.S. gallon suction type tank Crankcase pressure oscillated diaphragm type with filter
IGNITION SYSTEM . Ignition . Breaker point gap . Condenser capacity . Spark plug . Spark plug gap	Battery with distributor .020" .37 - .41 mfd. Champion J4J, ACM42K, Auto-Lite A21X-14MM .030"
ELECTRICAL SYSTEM	AC Generator 20 amp.
SPEED CONTROL	Remote control, synchronized throttle and spark
STEERING	Remote control only. Not supplied.
COOLING SYSTEM	Combination positive displacement - centrifugal pump with thermostat control.

*Brake horsepower certified by O.B.C.