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GASOLINE ENGINES



Approved:



Standard features

- Dual element air cleaner
- Non-contact transistorized ignition
- Low level oil alert
- Recoil & electric start (optional)
- Extra long recoil cord (1.67 meters)
- Gas level gauge
- Cast iron cylinder
- Bearing mounted crankshaft
- Forged aluminum piston

SPECIFICATIONS

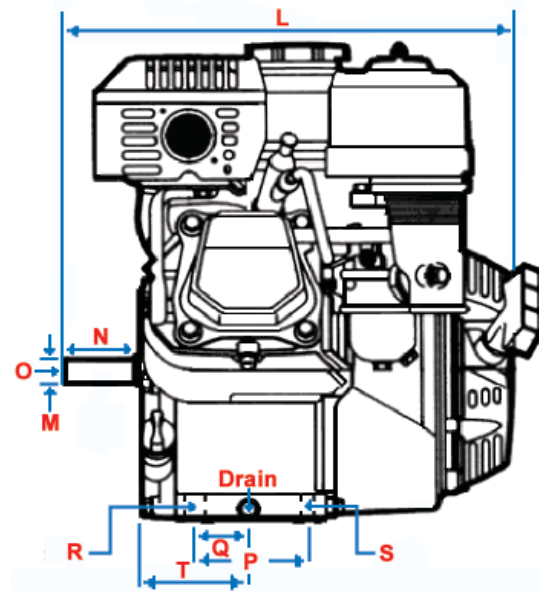
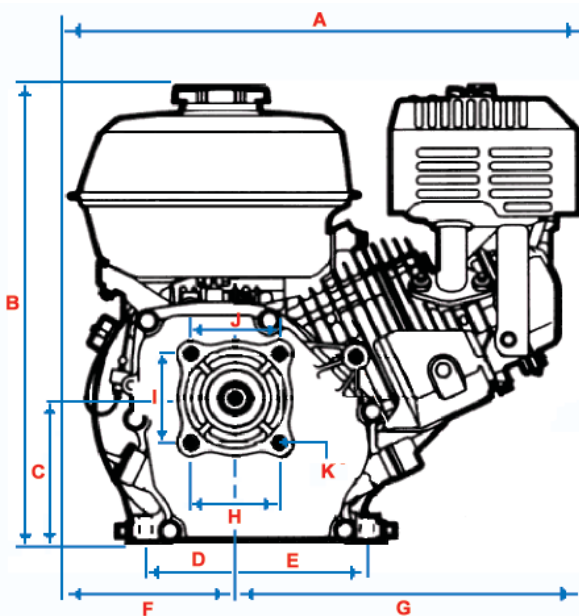
	Model	HYSJF168	HYSJF200	HYSJF240	HYSJF270	HYSJF340	HYSJF390
Performance	Engine type	Single cylinder 4-stroke overhead valves (OHV), 25 degree inclined					
	Bore x Stroke (in.)	2.68 x 1.77	2.68 x 2.13	2.87 x 2.28	3.03 x 2.28	3.23 x 2.52	3.46 x 2.52
	Displacement (ml)	163	196	242	270	338	389
	Compression ratio	8.5:1		8.2:1		8.0:1	
	Maximum output HP @ 3600 RPM	5.5	6.5	8	9	11	13
	Maximum torque lbf-ft @ 2500 RPM	8	9.6	12.3	14	17.3	19.5
	Consumption (ml/Hp*h)	465			385		
	Noise level db(A) @ 7m	78	80		81	83	84
Standard Features	Cooling	Forced air					
	Ignition system	Non-contact transistorized ignition (T.C.I)					
	Start mode	Recoil or electric (optional)					
	Air cleaner	Dual element					
	Gas tank capacity (liter)	3.6			6		6.5
	Engine oil capacity (liter)	0.6			1.1		
	Gas level gauge	Std.					
	Low level oil alert	Std.					
Crankshaft PTO	PTO Shaft dia. & key (in.)	3/4 x 3/16			1.0 x 1/4		
	PTO Shaft tapped hole	5/16-24 UNF			7/16-20 UNF		
	PTO Shaft length (in.)	2.42			3.48		
	PTO Pilot (in.)	1.625			5.75		
	PTO Shaft rotation	Counterclockwise					
General Information	Shipping dimensions L x W x H (mm)	387 x 330 x 360			460 x 400 x 445		485 x 410 x 485
	Net weight (kg) / (lb)	15 / 33			25 / 55		31 / 68
	Gross weight (kg) / (lb)	17 / 37			27 / 59		33 / 72
	Fuel type	Unleaded gasoline 87 octane minimum					
Maintenance & Adjustments	Engine oil	Check oil level before each use. Change oil after the first 20 hours of operation and then after every 100 hours of operation. Use SAE 10W-30 Oil that meets these standards: API SJ or SL.					
	Air filter	Inspect air filter at each use. Clean air filter every 50 hours of operation and replace after every 300 hours of operation. Replace more often under severe dust conditions.					
	Spark-plug	Inspect after every 100 hours of operation and replace after 300 hours of operation. Spark-plug gap should be 0.028", should be -0.031".					
	Valve clearance (cold)	Check/adjust after every 300 hours of operation. Valve clearance should be: Intake 0.006"; Exhaust 0.007".					
	Sediment cup	Remove and clean after every 100 hours of operation.					
	Fuel Tank	Clean after every 100 hours of operation. This service should be performed by a qualified mechanic.					
	Idle speed	Adjust after every 300 hours of operation. Idle RPM should be 1400 +/- 150 RPM.					
Combustion chamber	Clean after every 500 hours of operation. This service should be performed by a qualified mechanic.						

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GASOLINE ENGINES - DIMENSIONS



N.B. May not be exactly as shown

Dimensions in inches

MODEL	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R (w x l)	ØS	T	
HYSJF168/CX/A7/BLUE	14.25																				
HYSJF168E/CX/A7/BLUE *	16.50	12.75	4.75	2.63	3.75	4.75	9.50	2.57	2.75	2.75	5/16-24 NF X 0.56 DP	12.50	0.75	2.42	5/16-24 NF X 0.63 DP	3.13	1.50	0.375 X 0.55	0.38	3.00	
HYSJF200/CX/A7/BLUE	14.25																				
HYSJF200E/CX/A7/BLUE *	16.50																				
HYSJF240/CX/A2/BLUE	17.00	16.00																			
HYSJF240E/CX/A2/BLUE *	19.00						6.25	10.75					15.00								
HYSJF270/CX/A2/BLUE	17.00																				
HYSJF270E/CX/A2/BLUE *	19.00																				
HYSJF340/CX/A1/BLUE	18.00		5.25	3.50	4.25			4.60	5.12	3.25	3/8-16 NC X 0.69 DP										
HYSJF340E/CX/A1/BLUE *	20.25												1.00	3.48							0.44
HYSJF390/CX/A1/BLUE	18.00	16.75																			
HYSJF390E/CX/A1/BLUE *	20.25						5.75	12.25					16.00								
HYSJF390E/CX/A1/BLUE *	20.25																				

* With electric start - Battery not included

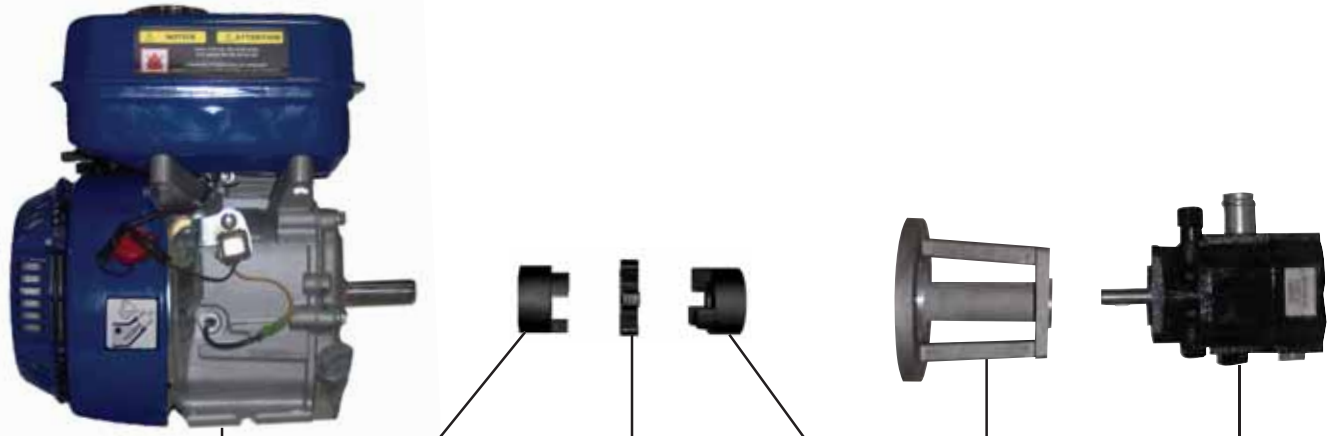
MODEL	HP	STARTING SYSTEM
HYSJF168/CX/A7/BLUE	5.5	Recoil
HYSJF168E/CX/A7/BLUE *	5.5	Recoil & electric
HYSJF200/CX/A7/BLUE	6.5	Recoil
HYSJF200E/CX/A7/BLUE *	6.5	Recoil & electric
HYSJF240/CX/A2/BLUE	8.0	Recoil
HYSJF240E/CX/A2/BLUE *	8.0	Recoil & electric
HYSJF270/CX/A2/BLUE	9.0	Recoil
HYSJF270E/CX/A2/BLUE *	9.0	Recoil & electric
HYSJF340/CX/A1/BLUE	11.0	Recoil
HYSJF340E/CX/A1/BLUE *	11.0	Recoil & electric
HYSJF390/CX/A1/BLUE	13.0	Recoil
HYSJF390E/CX/A1/BLUE *	13.0	Recoil & electric

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2 STAGE POWER PACK STARTER KIT



SIZE	GASOLINE ENGINE	JAW COUPLING	INSERT	JAW COUPLING	PUMP ADAPTER	HI-LOW GEAR PUMP
6.5 HP / 11 GPM	HYSJF200/CX/A7/BLUE	HYSCLO95-3/4	HYSJCIR095	HYSCLO95-1/2	HYSPAG-5.5/6.5HP-4F17-443	HYSP11-2S-CW
9.0 HP / 16 GPM	HYSJF270/CX/A7/BLUE	HYSCLO95-1	HYSJCIR095	HYSCLO95-1/2	HYSPAG-8/20HP-4F17-575	HYSP16-2S-CW

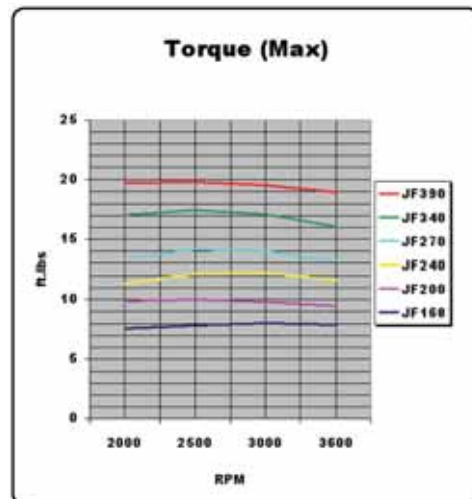
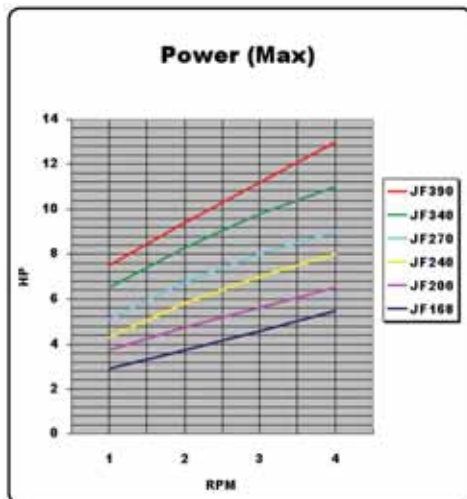
MODEL	POWER PACK KIT DESCRIPTION
HYS6.5HP/11GPM POWER PACK	6.5 HP engine, 11 GPM hi-low pump
HYS9.0HP/16GPM POWER PACK	9.0 HP engine, 16 GPM hi-low pump

N.B. Not assembled

GASOLINE ENGINE- RECOMMENDATIONS

RECOMMENDATIONS FOR OPTIMAL PERFORMANCE

- To obtain the best performance and life of your engine, choose the engine that best fits your applications power requirements (refer to the performance curves below).
 $HP = (T \times RPM) / 5252$
 T is torque in foot pounds
- Make sure your equipment is set up with a clutch or other unloading system to help ease engine starting, extending recoil or electric starter life.
- Run engine in the cleanest environment possible. Maintain proper oil level in crankcase. Regularly clean or replace air filter.
- The Hy-Spec engine is designed to operate safely and reliably when it is used according to the instructions in the owner's manual. Please carefully read the owner's manual before using the engine to avoid damage or accidents.



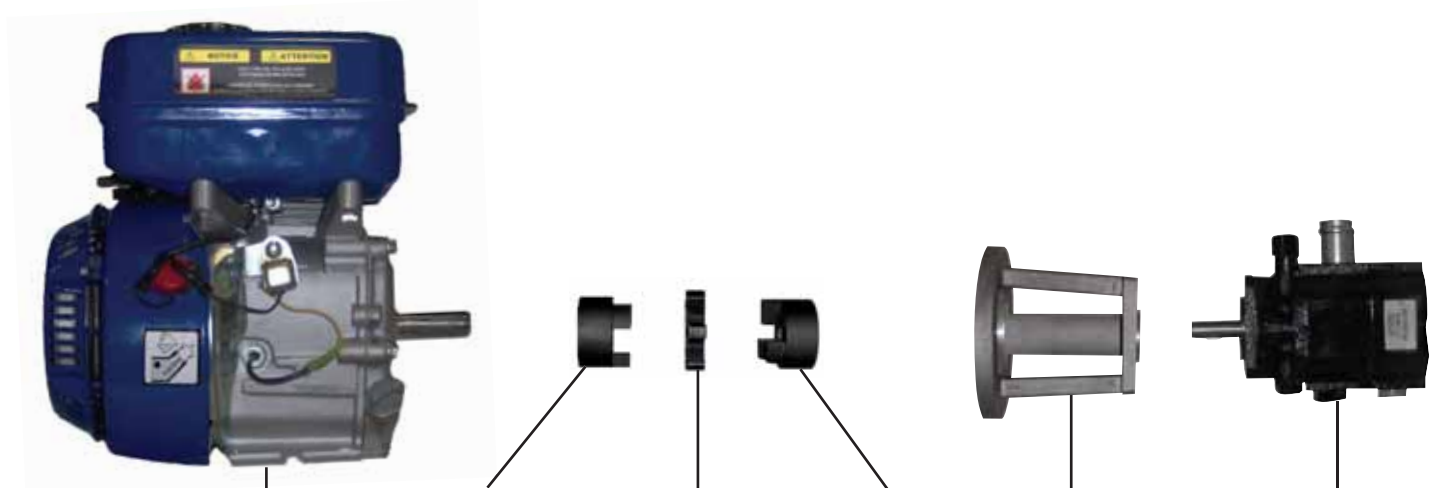
We suggest not exceeding 90% of maximum engine rating.

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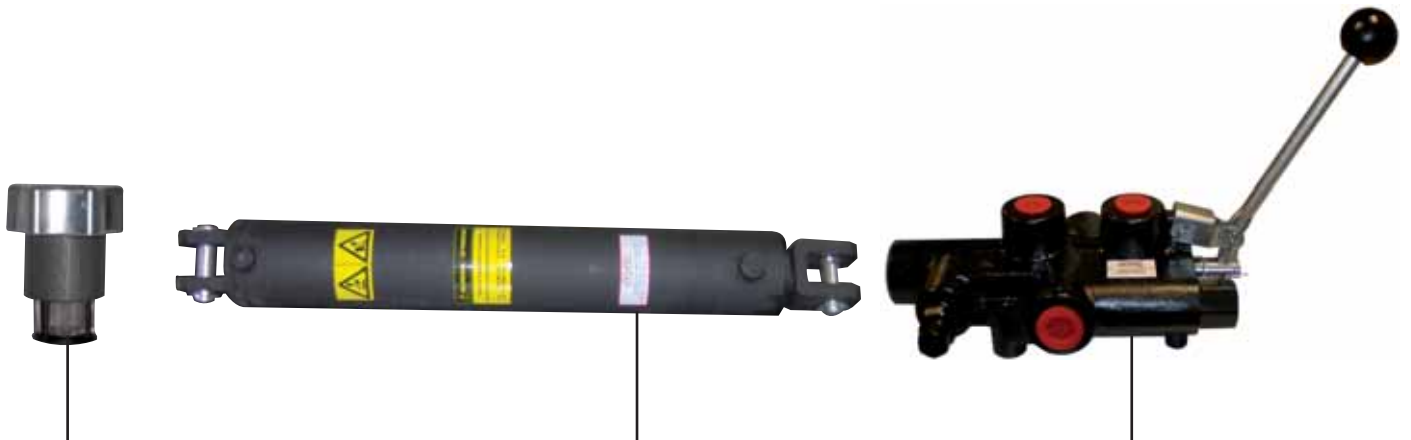
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LOG SPLITTER STARTER KIT



SIZE	GASOLINE ENGINE	JAW COUPLING	INSERT	JAW COUPLING	PUMP ADAPTER	HI-LOW GEAR PUMP
6.5 HP / 11 GPM	HYSJF200/CX/A7/BLUE	HYSCL095-3/4	HYSJCIR095	HYSCL095-1/2	HYSPAG-5.5/6.5HP-4F17-443	HYSP11-2S-CW
9.0 HP / 16 GPM	HYSJF270/CX/A7/BLUE	HYSCL095-1	HYSJCIR095	HYSCL095-1/2	HYSPAG-8/20HP-4F17-575	HYSP16-2S-CW



FILLER BREATHER	CYLINDER	LOG SPLITTER CONTROL VALVE
HYSFB18	HYS40FEM24-10	HYSP80LS

MODEL	LOG SPLITTER KIT DESCRIPTION
HYS6.5HP LOG SPLITTER KIT	6.5 HP engine, 11 GPM hi-low pump, power pack with valve, cylinder and breather
HYS9.0HP LOG SPLITTER KIT	9.0 HP engine, 16 GPM hi-low pump, power pack with valve, cylinder and breather

N.B. Not assembled

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GENERATORS



Approved:

Standard features

- Automatic voltage regulator
- 12 VDC / 120 VAC / 240 VAC (HYSJD6500 only)
- Low level oil alert
- Recoil / electric start (HYSJD6500 only)
- Voltmeter
- 10" wheel kit with tow handles
- Gas level gauge



SPECIFICATIONS

		HYSJD2000	HYSJD3000	HYSJD6500
Generator	Model	HYSJD2000	HYSJD3000	HYSJD6500
	Type	Bearing mounted rotor. Brush type contacts		
	Voltage regulator	AVR		
	Frequency (Hz)	60Hz		
	AC output voltage (volts)	120		120/240
	AC circuit breaker	15 Amp	25 Amp	23 Amp / 46 Amp
	Peak AC output (watts)	2000	3500	6500
	Rated AC output (watts)	1700	3000	5500
	DC output (volts)	12		
Engine	Engine model	HYSJF168	HYSJF200	HYSJF390
	Engine (HP)	5.5	6.5	13
	Electronic ignition	Std.		
	Fuel type	Unleaded gasoline 87 octane minimum		
	Low level oil alert	Std.		
	Gas tank capacity (liter)	15		25
	Continuous operating hours	13	11	9
	Starting system	Recoil		Recoil & electric
	Noise level db(A) @ 7m	67		72
Standard Features	Gas level gauge	Std.		
	Engine switch	Std.		
	Voltmeter	Std.		
	AC 120 volt 20 amp receptacles NEMA 5-20R	2 Std.		
	AC 120 volt 25 amp twist lock receptacle NEMA L5-30R	1 Std.		
	AC 120/240 volt 30 amp twist lock receptacle NEMA L14-30R	N/A		1 Std.
	Two wheel kit & tow handle	Std.		
General Information	Shipping dimensions L x W x H (mm)	600 x 450 x 470		700 x 535 x 590
	Net weight (kg)	39	48	82
	Gross weight (kg)	41	52	86

MODEL	DESCRIPTION
HYSJD2000W/CX/BLUE/CSA	2000 watt generator
HYSJD3000W/CX/BLUE/CSA	3000 watt generator
HYSJD6500ETW/CX/BLUE/CSA *	5500 watt generator

* With electric start - Battery not included

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PORTABLE GENERATOR



Standard features

- 120 volts
- 12 VDC
- Recoil start
- Voltmeter
- Circuit breaker

SPECIFICATIONS

Generator	Model	HYSJD950DC/BLUE
	Type	Brushless, single phase
	Voltage regulator	Capacitor
	Frequency (Hz)	60
	AC output (volts)	120
	Peak AC output (watts)	950
	Rated AC output (watts)	800
	DC output (volts)	12 VDC
	Power factor	cos = 1.0
	Engine	Engine Model
Type		Reed valves 2 stroke air cooled
Bore x Stroke (mm x mm)		45x40
Compression ratio		7.4:1
Starting system		Recoil
Ignition system		Electronic C.D.I.
Fuel type		Gas-Oil mix - 50:1
Fuel tank capacity (L)		4
Continuous operating hours		4 - 6
Noise level db(A) @ 7m		62
General Information	Net dry weight (lb)	43
	Shipping dimensions L x W x H (in)	15 x 13 x 13
Standard Features	Indicator light	Std.
	AC 120 volt 15 amp receptacle NEMA 5-15R	2 Std.
	DC receptacle	Std.
	AC & DC circuit breakers w/ reset buttons	Std.
	Top handle	Std.
	12V DC cable w/clamps	Std.
	Rubber, vibration isolator, feet	Std.

*HY-SPEC HYSJD950DC/BLUE is for field use only.
Not for domestic use.*

MODEL	DESCRIPTION
HYSJD950DC/BLUE	950 watt generator

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WATER PUMPS



Approved:

Standard features

- Centrifugal type pump
- Cast iron impeller & volute
- 550 / 1000 / 1300 Liters/minute pump output
- Low level oil alert
- NPT discharge and suction connections
- Gas level gauge
- Rubber vibration isolator feet
- Recoil start

SPECIFICATIONS

SPECIFICATIONS				
Pump	Model	HYSWP20	HYSWP30	HYSWP40
	Type	Centrifugal		
	Material	Cast iron impeller & volute		
	Inlet & Outlet (NPT)	2	3	4
	Pump lift (m)	26	28	16
	Suction height (m)	8		
	Output flow (liter/minute)	550	1000	1300
	Maximum pressure (PSI)	37	40	22
Engine	Engine model	HYSJF168	HYSJF200	HYSJF240
	Engine (HP)	5.5	6.5	8
	Fuel type	Unleaded gasoline 87 octane minimum		
	Electronic ignition	Std.		
	Low level oil alert	Std.		
	Gas tank capacity (liter)	3.6		6
	Continuous operating hours (hour)	2.8	2.4	
	Starting system	Recoil		
	Noise level db(A) @ 7m	78	80	
	Gas level gauge	Std.		
General Information	Shipping dimensions	475 x 385 x 450	515 x 385 x 450	635 x 445 x 550
	Net weight (kg)	27	30	47
	Gross weight (kg)	29	32	49

MODEL	DESCRIPTION
HYSWP20/CX/BLUE	2" Water pump
HYSWP30/CX/BLUE	3" Water pump
HYSWP40/CX/BLUE	4" Water pump

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WATER PUMP ACCESSORIES



DISCHARGE HOSE



SUCTION HOSE

(see next page for configuration example)

MODEL	TYPE	DESCRIPTION
HYSCS-A200A	A	Cam lock - Type A Male adapter x Female thread - 2 NPT
HYSCS-A300A	A	Cam lock - Type A Male adapter x Female thread - 3 NPT
HYSCS-A400A	A	Cam lock - Type A Male adapter x Female thread - 4 NPT
HYSCS-C200A	C	Cam lock - Type C Female coupler x Hose barb - 2"
HYSCS-C300A	C	Cam lock - Type C Female coupler x Hose barb - 3"
HYSCS-C400A	C	Cam lock - Type C Female coupler x Hose barb - 4"
HYSCS-D200A	D	Cam lock - Type D Female coupler x Female thread - 2 NPT
HYSCS-D300A	D	Cam lock - Type D Female coupler x Female thread - 3 NPT
HYSCS-D400A	D	Cam lock - Type D Female coupler x Female thread - 4 NPT
HYSCS-E200A	E	Cam lock - Type E Male adapter x Hose barb - 2"
HYSCS-E300A	E	Cam lock - Type E Male adapter x Hose barb - 3"
HYSCS-E400A	E	Cam lock - Type E Male adapter x Hose barb - 4"
HYSCS-F200A	F	Cam lock - Type F Male adapter x Male thread - 2 NPT
HYSCS-F300A	F	Cam lock - Type F Male adapter x Male thread - 3 NPT
HYSCS-F400A	F	Cam lock - Type F Male adapter x Male thread - 4 NPT
HYSCS-AA200A	AA	Cam lock - Type AA Male adapter x Male adapter - 2"
HYSCS-AA300A	AA	Cam lock - Type AA Male adapter x Male adapter - 3"
HYSCS-AA400A	AA	Cam lock - Type AA Male adapter x Male adapter - 4"
HYSCS-DC200A	DC	Cam lock - Type DC Female dust cap - 2"
HYSCS-DC300A	DC	Cam lock - Type DC Female dust cap - 3"
HYSCS-DC400A	DC	Cam lock - Type DC Female dust cap - 4"
HYSCS-DP200A	DP	Cam lock - Type DP Male dust plug - 2"
HYSCS-DP300A	DP	Cam lock - Type DP Male dust plug - 3"
HYSCS-DP400A	DP	Cam lock - Type DP Male dust plug - 4"
HYSS-RH200	RH	Strainer 2 NPT
HYSS-RH300	RH	Strainer 3 NPT
HYSS-RH400	RH	Strainer 4 NPT
HYSCP-TB200P	TB	Clamp single T-Bolt 2"
HYSCP-TB300P	TB	Clamp single T-Bolt 3"
HYSCP-TB400P	TB	Clamp single T-Bolt 4"
HYSHM-200P	HM	Hose mender - Type HM
HYSHM-300P	HM	Hose mender - Type HM
HYSHM-400P	HM	Hose mender - Type HM
HYSKCN-200P	KCN	King nipple - Type KCN Male thread x Hose barb - 2 NPT
HYSKCN-300P	KCN	King nipple - Type KCN Male thread x Hose barb - 3 NPT
HYSKCN-400P	KCN	King nipple - Type KCN Male thread x Hose barb - 4 NPT
HYSCGSK-200N	CGSK	Gasket BUNA-N 2"
HYSCGSK-300N	CGSK	Gasket BUNA-N 3"
HYSCGSK-400N	CGSK	Gasket BUNA-N 4"
HYSPHCLAC-200	-	Discharge hose - 2" - 6 bar working pressure - 50 ft assembly
HYSPHCLAC-300	-	Discharge hose - 3" - 6 bar working pressure - 50 ft assembly
HYSPHCLAC-400	-	Discharge hose - 4" - 6 bar working pressure - 50 ft assembly
HYSSHCLCKNC-200	-	Suction hose - 2" (stocked in 100 foot coils)
HYSSHCLCKNC-300	-	Suction hose - 3" (stocked in 100 feet coils)
HYSSHCLCKNC-400	-	Suction hose - 4" (stocked in 100 foot coils)

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WATER PUMP STARTER KITS

SUCTION 20 ft



WATER PUMP

DISCHARGE 50 ft x 2



DISCHARGE HOSES

MODEL	DESCRIPTION
HYSWP20-STARTER-KIT	All parts listed above including a 2" pump
HYSWP30-STARTER-KIT	All parts listed above including a 3" pump
HYSWP40-STARTER-KIT	All parts listed above including a 4" pump

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PRESSURE WASHER



Standard features

- 2400 PSI
- 2.2 GPM
- 5.5 HP
- Recoil start
- 25 ft Pressure hose
- 10" Pneumatic wheel
- Low level oil alert

SPECIFICATIONS

Pressure Washer	Model	HYSJDCM170/CX/BLUE
	Oper. pressure (PSI)	2200
	Max pressure (PSI)	2400
	Flow (GPM)	2.2
Engine	Engine Model	HYSJF168/CX/A7/BLUE
	Engine (HP)	5.5
	Fuel type	Unleaded gasoline 87 octane minimum
	Starting system	Manual recoil
	Noise level dB(A) @ 7m	67
Standard Features	Nozzle	5 Interchangeable tips
	Spray gun	Std.
	Pressure hose	25 ft Std.
	Soap suction hose	Std.
	Adjustable throttle	Std.
General Information	Shipping dimensions L x W x H (mm)	640 x 510 x 580
	Net weight (kg)	35
	Gross weight (kg)	38

MODEL	DESCRIPTION
HYSJDCM170/CX/BLUE	Pressure washer

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PARTS

		GASOLINE ENGINES					
		HYSJF168	HYSJF200	HYSJF240	HYSJF270	HYSJF340	HYSJF390
		5.5HP	6.5HP	8.0HP	9.0HP	11.0HP	13.0HP
	SPARK PLUG	HYS-PJF168/JF390.10-1					
	RECOIL	HYS-PJF168/JF200.13		HYS-PJF240/JF270.14		HYS-PJF340/JF390.11	
	ELECTRIC STARTER	HYS-PJF168/JF200.14.2		HYS-PJF240/JF270.14.2		HYS-PJF340/JF390.7-7	
	AIR FILTER	HYS-PJF168/JF200.6.1.1		HYS-PJF240/JF270.6.2-4		HYS-PJF340/JF390.9.1-3	
	GASOLINE FILTER	HYS-PJF168/JF390.8.3.1					
	SWITCH, ON/OFF	HYS-PJF168/JF200.10.1			HYS-PJF240/JF390.10.1		
	GASOLINE HOSE	HYS-PJF168/JF390.8.3-2					
	GASOLINE CAP	HYS-PJF168/JF390.8.1					
	DIPSTICK CAP	HYS-PJF168/JF200.15-3A		HYS-PJF240/JF270.12-2A		HYS-PJF340/JF390.3-3	
	CARBURETOR	HYS-PJF168.9-3A	HYS-PJF200.9-3A	HYS-PJF240.6-1A	HYS-PJF270.6-1A	HYS-PJF340.6-1A	HYS-PJF390.6-1A
	MUFFLER	HYS-PJF168/JF200.7.6		HYS-PJF240/JF270.7-3		HYS-PJF340/JF390.10.3	

		GENERATORS		
		HYSJD2000	HYSJD3000	HYSJD6500
	ENGINE PARTS	SEE ENGINE 5.5 & 6.5HP		SEE ENGINE13HP
	AIR FILTER	HYS-PJD2000/JD3000.6.2-1		HYS-PJD6500.9.2-2
	GASOLINE FILTER	HYS-PJD2000/JD3000.8.5-6		HYS-PJD6500.8.2-5
	DIPSTICK CAP	HYS-PJF168/JF200.15-3B		HYS-PJF340/JF390.3-3B
	ELECTRIC PANEL	HYS-PJD2000.1H	HYS-PJD3000.1H	HYS-PJD6500.1H
	HANDLE	HYS-PJD2000/JD6500.2-9		
	WHEEL	HYS-PJD2000/JD6500.2-6		
	GASOLINE CAP	HYS-PJD2000/JD6500.8.1-4		
	CARBURETOR	HYS-PJF168.9-3B	HYS-PJF200.9-5B	HYS-PJF390.6-1B
	GASOLINE HOSE	HYS-PJF168/JF390.8.3-2		

		WATER PUMPS		
		HYSWP20	HYSWP30	HYSWP40
	ENGINE PARTS	SEE ENGINE 5.5 & 6.5HP		
	SUCTION FLANGE	HYS-PWP20.2-13	HYS-PWP30.2-13	HYS-PWP40.2-13
	OUTLET FLANGE	HYS-PWP20.2-16	HYS-PWP30.2-16	HYS-PWP40.2-16
	PRIMER/DRAIN PLUG	HYS-PWP20/WP40.2-19		
	PUMP ASSEMBLY	HYS-PWP20.2	HYS-PWP30.2	HYS-PWP40.2
	MECH. SEAL	HYS-PWP20.2-5	HYS-PWP30.2-5	HYS-PWP40.2-5
	CHECK VALVE	HYS-PWP20.2-12	HYS-PWP30.2-12	HYS-PWP40.2-12


All other parts are available.
Please contact a Hy-Spec Retailer to order.

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All pictures may differ from the final products.

Product availability, specifications and prices are subject to change without notice. Taxes extra.

PARTS



PRESSURE WASHER	
PUMP	HYS-PJDCM-170.1
TRIGGER HANDLE	HYS-PJDCM-170.4-1
WAND	HYS-PJDCM-170.4-2
PRESSURE HOSE	HYS-PJDCM-170.5-1
WHEEL	HYS-PJDCM-170.3-5
NOZZLE - RED	HYS-PJDCM-170.4-3
NOZZLE - ORANGE	HYS-PJDCM-170.4-4
NOZZLE - GREEN	HYS-PJDCM-170.4-5
NOZZLE - WHITE	HYS-PJDCM-170.4-6
NOZZLE - BLACK	HYS-PJDCM-170.4-7
GAUGE	HYS-G22LXB3000PSI-1/4NPT
CONTROL CABLE	HYS-PJDCM-170.2-6
CONTROL LEVER	HYS-PJDCM-170.2
SOAP HOSE	HYS-PJDCM-170.5-2

WARRANTY

GAS ENGINE PRODUCTS LIMITED WARRANTY

HY-SPEC HYDRAULIK, warrants its Gas Engine Products against defects in design, material and workmanship for the following period from the date of sale:

- 12 months : Consumer use**
- 3 months : Commercial use***

** Consumer use means personal use by a consumer.

*** Commercial use means all others users, including commercial, income generating or rental.

HY-SPEC HYDRAULIK, will replace free of charge any part, or parts of its products, which after inspection by HY-SPEC HYDRAULIK is deemed a manufacturing defect.

This warranty does not apply to any product which has been subject to unauthorized modification, repair or alteration; an accident, improper operation or maintenance; abnormal conditions; or the wear from normal use.

HY-SPEC HYDRAULIK, shall not be liable for loss of time, manufacturing costs, labour, transport, material, loss of profits, consequential damages, direct or indirect, because of defective products.

HY-SPEC HYDRAULIK's responsibility will be limited to the repair or the replacement of the defective product or the reimbursement of the price paid at time of order.

Any warranty claim must be presented within 30 days of the manufacturing defect discovery. The shipping charges will be at the expense of the customer.

ASK FOR HY-SPEC QUALITY

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Product availability, specifications and prices are subject to change without notice. Taxes extra.

GENERATOR LOADING SEQUENCE

When operating an electrical motor driven appliance (Air Conditioner, Forced Air Heater, Water Pump, etc.) from a generator the start-up power demand is 2 - 3 times greater than the operating demand.

It is very important to start the devices in a sequence of highest start-up power demand first through to the appliance with the lowest power demand.

Example:

A generator with a 4000 watt or 33 amp capacity would allow for the following appliance use:

- 1 Air Conditioner (13 000 BTU)	2000 watts - 16.7 amp.
- 1 Coffee maker	600 watts - 5.0 amp.
- 1 Toaster	750 watts - 6.3 amp.
Total loaded operating demand	3350 watts - 28.0 amp.

If we use the following start-up sequence, a 4000 watt generator will be adequate:

- 1 Air Conditioner (13 000 BTU) - 4000 watts demand during start-up only	2000 watts
- 1 Coffee maker	600 watts
- 1 Toaster	750 watts
Total loaded operating demand	3350 watts

But if we start up devices as below, a 4000 generator watts will be inadequate:

- 1 Coffee maker	600 watts
- 1 Toaster	750 watts
- 1 Air Conditioner (13 000 BTU) - 4000 watts demand during start-up only	2000 watts
	+ 2000 watts
Total loaded operating demand during start-up	5350 watts

Whenever possible, devices should be connected to the generator at their lowest demand setting then gradually increase to their highest setting.

NOTE: ANY DEVICE CONNECTED TO A GENERATOR MUST BE GROUNDED.

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APPROXIMATE POWER CONSUMPTION		
DEVICE	APPROXIMATE WATTAGE	APPROXIMATE AMPERAGE
Air Conditioner	1400 - 2200	12 - 18
Battery charger	800 and more	6 - 7
Blender	600	5,5
CD player	50 - 100	0,5 - 0,9
Clothes iron	500 - 1200	4 - 10
Coffee maker	550 - 700	4 - 6
Curling iron	20 - 50	0,2 - 0,5
Deep fryer	1000 - 1350	8 - 11
Dishwasher	1400	12
Drill press	250 - 750	2 - 6
Electric blanket	50 - 200	0,5 - 1,5
Fan	25 - 100	0,2 - 0,9
Force Air Heater	1000 - 1500	8 - 13
Hairdryer	350 - 1000	3 - 8
Kettle	1350	12
Light bulb	40 - 100	0,36 - 0,9
Microwave oven	700 - 1500	6 - 13
Oven	350 - 1000	3 - 8
Power convertor	300 - 350	2 - 3
Radio	50 - 200	0,5 - 1,5
Refrigerator	600 - 1000	5 - 8
Sewing machine	125	1,0
Toaster	750 - 1200	6,5 - 10
Vacuum cleaner	200 - 500	1,5 - 4
Video recorder	150 - 200	1,5
Washer / Dryer	2000 - 2250	16
Water heater	1000 - 1500	8 - 13
Water Pump	500 - 600	4 - 5

