

# **SPECIFICATIONS FOR A SINGLE-COLOR, SINGLE LINE ROADWAY PAINT MARKING MACHINE**

## **HEAVY DUTY MODEL C** **Stainless Steel Tank, Non-Bleeder/Flush** **Part Number: PO-HDC-SS**

### **GENERAL**

These specifications are to cover the minimum specifications of a single line, single color paint striping machine capable of applying traffic marking materials of all types, both reflective and non-reflective.

### **EQUIPMENT**

- 1 **FRAME AND CHASSIS.** The frame shall be of channel and 1-1/16" OD tubular steel construction with compressor and engine, mounted on specially designed base measuring: length 58", width 37", and height overall 42". The front wheel shall be offset to the right side of the machine.
  
- 2 **COMPRESSOR.** The compressor shall be twin-cylinder, single stage, air-cooled type with a displacement of not less than 11.4 CFM at 80 psi gauge pressure at 1,040 rpm. The compressor shall be cast iron and equipped with anti-friction tapered bearings, lubrication and provide sufficient air capacity for operating all components while maintaining a 50% air reserve at all times to facilitate long service life. The unit shall be equipped with a heavy duty, braided steel main air line and an automatic pressure un-loader valve to maintain air pressure in the system constant.
  
- 3 **ENGINE.** The marking machine shall be equipped with a Honda Model GX-160, single cylinder, four cycle, air-cooled, over head valve gasoline engine, capable of generating not less than 5.5 gross brake horsepower at 3600 RPM. The engine shall be equipped with a dual air filter element and with a transistorized magneto-ignition system. The engine shall be equipped with an oil alert system and automatic shutdown to prevent damage due to low oil. The engine shall be environmental compliant in all 50 states. The engine will have recoil start engine and self contained gasoline tank
  
- 4 **MATERIAL CONTAINER.** The marking machine shall be equipped with a material container of not less than 7 U. S. gallon capacity which will be electrically welded, and measure 12" in diameter and be of stainless steel construction, minimum grade 304. The tank tested to withstand an internal working pressure of not less than 110 PSI and shall be equipped with a drain off line and ball valve to completely empty the tank in a convenient spot outside the frame. A tank shut off ball valve at the bottom of the tank shall also be provided. The material container shall be mounted in a vertical position, directly behind the compressor and engine. The tank lid shall be not less than 10" in diameter and of ASME construction. A solvent resistant gasket shall be held in place with four forged steel clamps and wing bolt assemblies.

All plumbing coming in direct contact with paint shall be of stainless steel construction, minimum grade 304.

- 5 **SPRAY EQUIPMENT.** The spray system shall include one automatic air actuated KC-593-NBSSF spray gun, designed specifically for application of traffic paints. The spray gun and material container shall be further equipped with separate, non corrosive type regulators to maintain paint tank pressure and atomization air to the striping gun. The spray gun shall be automatic, diaphragm-operated, internal mixing, non-bleeder type capable of applying 3" to 9" lines. The spray gun shall be equipped with a hardened satellite air cap capable of spraying both reflective and non reflective type paints. The spray gun will further be equipped with automatic tip flush capability in the non-bleeder mode. The spray gun shall be equipped with air curtain assembly to insure sharp line definition. The striping gun shall apply square beginnings and endings in uniform application with perfect cross distribution. The spray gun shall be mounted outboard on the right front corner of the machine. All hoses (control, atomizing and fluid) to the striping gun shall be the solvent-resistant and equipped with reusable type fittings.
- 6 **STRAINER.** A "Y" type strainer shall be installed in the paint supply line to insure the removal of skins and other foreign matter from the gun paint supply. The strainer shall be mounted directly under the paint tank complete with isolation ball valve for service while maintaining paint in the tank. The strainer and screen shall be of all stainless steel construction with re-usable nylon gasket. The strainer shall be positioned for easy access to the operator.
- 7 **WHEELS.** The rear wheels shall be not less than 4.00 x 8 tube type pneumatic equipped with 1" anti-friction roller bearings and mounted on 3/4" diameter axle. The front wheel shall be 3.00 x 5 tube type pneumatic tire equipped with 5/8" ball bearings. The rear axle assembly shall be spring-loaded with adjustable tension to lock rear wheels for straight striping. The front axle shall be adjustable to insure straight tracking.
- 8 **CLEANER EQUIPMENT.** The striper shall be equipped with an automatic pressure cleaner mechanism of not less than one quart capacity. The cleaner system shall be equipped with an atomizing head for the automatic flushing of atomized cleaner solution to the sprayhead assembly of the striping gun(s). The pressure cleaner mechanism shall be valved to flush cleaner solution through the fluid line to the striping gun(s) while maintaining paint in the tank.
- 9 **CONTROLS.** The striping gun(s) shall be controlled by a quick-as-a-wink (QAW) control valve located on the handle bar within easy reach of the operator.
- 10 **HOSES.** All material hoses shall be solvent-resistant with standard thread reusable fittings. Material hose: 1/2" ID; atomization hose 1/4" ID; control hose 1/4".
- 11 **WATERBORNE PAINT COMPATIBILITY.** The material container shall be constructed of 304 stainless steel. All rigid plumbing lines, wetted gun parts and stainless steel strainer screen shall also be stainless steel. The striping gun shall be equipped with stainless steel wetted wear components featuring stainless steel needle and fluid tip to

ensure corrosion resistance. In the non-bleeder mode, the striping gun shall maintain fluid tip and air cap flush capability without the requirement of isolating the fluid source. This flush process must take place through the gun's atomization hosing and be operator initiated from the operating position by simply turning the 3-way valve.

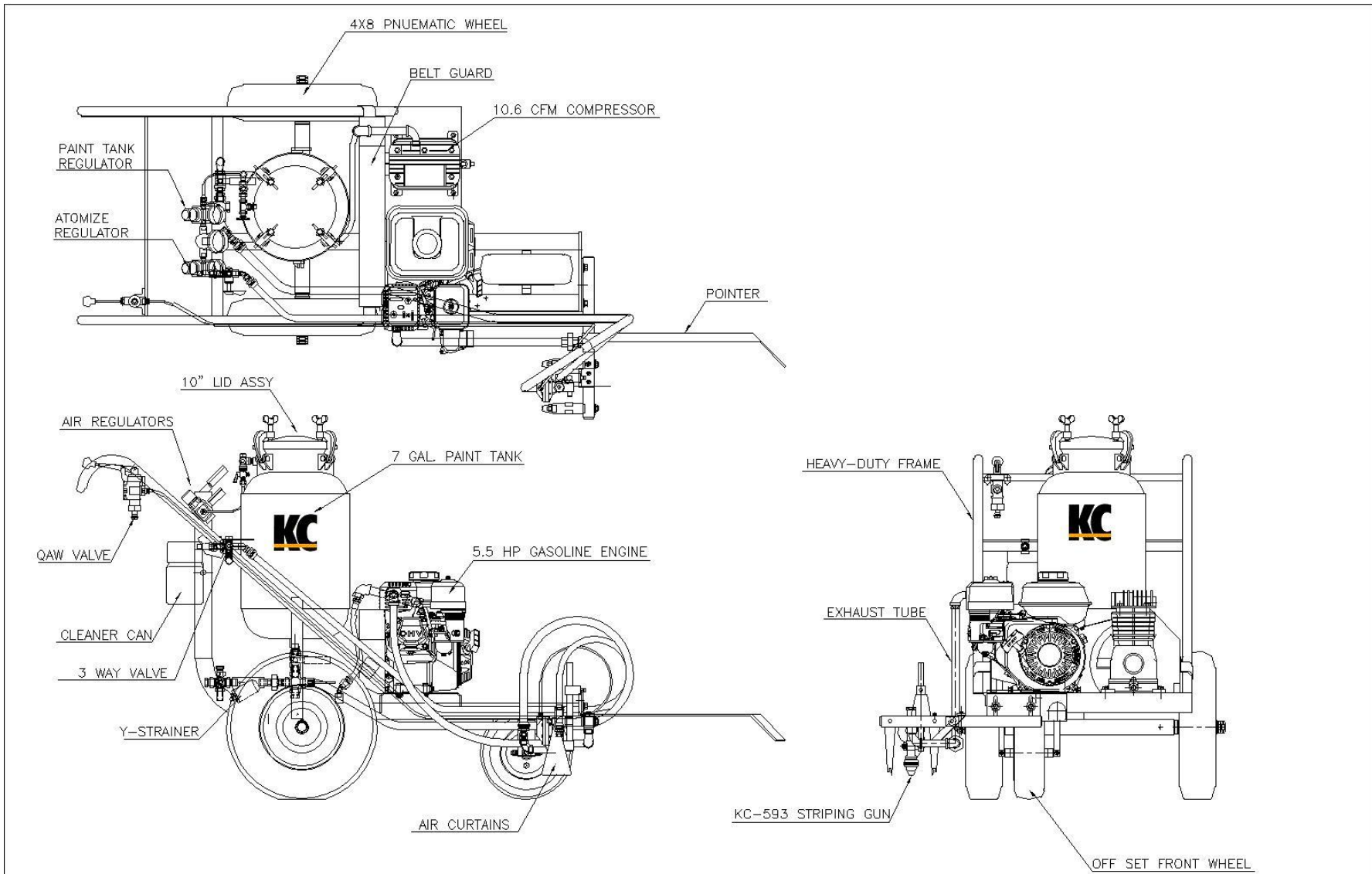
- 12 **BELT GUARD.** The line marking machine shall be equipped with an all-steel expanded metal belt and pulley guard.
- 12 **PAINTING.** The line marking machine shall be painted Federal Highway Yellow.
- 13 **GUARANTEE.** Kelly-Creswell products carry a one year warranty against defective parts and workmanship.
- 14 **SERVICE MANUALS.** One complete set of operating instructions and a repair parts list shall be delivered with the unit including detailed parts drawings with part numbers.

### OPTIONAL EQUIPMENT

Solvent Based Paint Compatible	PO-HDC	See specs for PO-HDC.
Frame	AC-1321	<u>HDC built on HDCT Frame:</u> The frame shall be of channel and 1-1/16" OD tubular steel construction with compressor and engine, mounted on specially designed base measuring: length 58", width 37", and height overall 42.
Compressor	AC-1320	13.6 CFM Compressor with head un-loader and 13" flywheel built on HDCT Frame, requires AC-1321.
Engines	AC-1371	Honda GX-160 5.5 gross HP with electric start and 12VDC battery in lieu of standard. Required when adding a M40D skipline controller.
	AC-1207	Honda GX-240 8 gross HP engine, recoil start in lieu of standard.
	AC-1372	Honda GX-240 8 gross HP engine with electric complete with battery and key start. Required when adding a M40D skipline controller.
Material Container	AC-1110	12-Gallon, stainless steel, non-code, with 10" lid assembly in lieu of standard 7 gallon.
Spray Equipment	AC-21NB	Binks 21 non-bleed gun in lieu of standard. (no tip flush capability).
	AC-21B	Binks 21 bleeder gun in lieu of standard.
Agitator	AC-1130	Hand paddle agitator for 7, 12 & 17 gallon tanks, plated carbon steel shaft with plastic paddles and hand crank.
	QM-1011-1-SS	SS shaft for AC-1130 (recommended for latex paint).
Gravity Bead System		The bead dispenser shall be installed to operate automatically in conjunction with the striping gun by means of the same control valve. In addition, a shut-off valve shall be installed in the control line to the bead dispenser so that the striping gun may be operated independently. The bead dispenser shall be fully adjustable for the desired application ratio of pounds of beads per gallon of

		paint.
	AC-1051-6-C7	One (1) 6" gravity bead dispenser, 40# hopper, control and charging hoses installed on machines equipped with a 7 gallon paint tank.
	AC-1051-6-C12	One (1) 6" gravity bead dispenser, 70# hopper, control and charging hoses installed on machines equipped with 12 gallon paint tank.
Pressure Bead System	AC-1060-1	The pressure bead system shall be equipped with a 50# pressure bead tank complete with 10" lid assembly, air regulation system and moisture trap. One (1) KC-593B pressure bead gun shall be located behind the spray gun and will operate automatically in conjunction with the striping gun. The volume of beads shall be adjustable by altering pressure on the bead tank and adjustment of the needle stop in the pressure bead gun.
Hand Gun Assembly	AC-1010-2	Hand paint spray gun complete with 20' of 3/8" fluid hose, 20' of 5/16" air hose, hand gun valves, fittings and Bink's 2100 hand gun.
	AC-1040	Binks 2001-B Hand Bead Gun with 20' Hose (Requires AC-1060-1).
	AC-1020-SS	Hand gun take off valves only, stainless.
Skipline Controller	AC-1225	The unit shall be equipped with the Kelly-Creswell Mark 40D electronic skipline controller, no exceptions The Mark 40D skipline controller shall control up to four paint and bead guns simultaneously; features include a bright 32 character digital LCD display, advance/retard with Posi-Cycle, single switch auxiliary paint/skip cycle, automatic calibration, speedometer/odometer, versatile three-mode pattern change preset, metric or US display, menu driven programming, heavy duty military specification components, non-volatile memory (no batteries required) with digital footage counters. Controller (Requires AC-1371 or AC-1372 electric start engine).
Swivel Wheel Assembly	AC-1230	One (1) separate, retractable 3.00 X 5 pneumatic swivel wheel assembly (manual lift) installed for painting tight curves and circles.
Hand Parking Brake	AC-1211	One (1) hand parking brake assembly installed to secure the machine when unattended.
Rotatable Side Delivery	AC-1180	Rotatable side delivery attachment equipped with a separate, angle iron side delivery bracket with rotatable feature to allow painting both horizontal and vertical surfaces.
Spare Parts Inventory	PO-HDC-Minor	Spare parts inventory including KC-143 needle kit for striping gun, tank gasket, cleaner tank gasket, 15' 1/4" nylon tubing.
	PO-HDC-Major	Spare parts inventory recommended for export customers includes Minor kit plus, KC-145 tip repair kit, complete set of belts, spare rear wheel, spare front wheel, replacement air regulator, replacement 100# gauge, replacement 160# gauge, replacement three way valve, complete set of fluid & air hoses.
Crating	PO-Crate	Crating charge for all portables shipped common carrier. Includes heavy wooden skid with protective frame.
	PO-Crate-Export	Fully enclosed wooden box fabricated, 7/16 OSB wood.



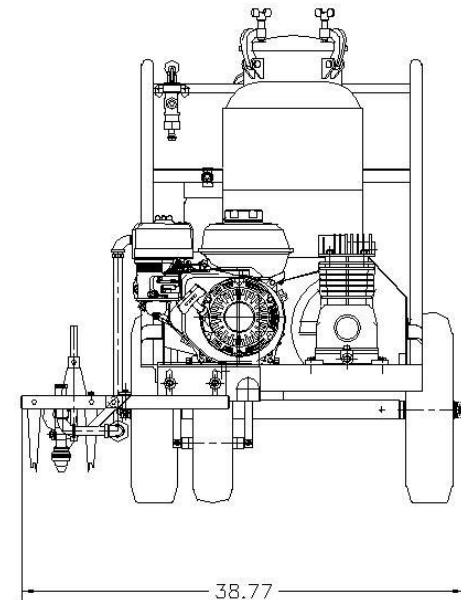
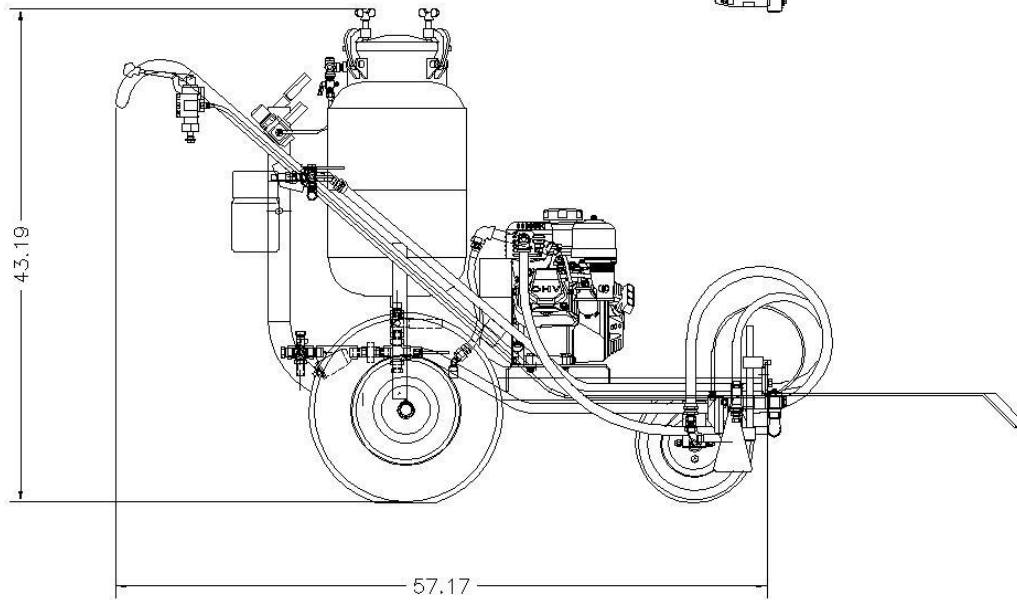
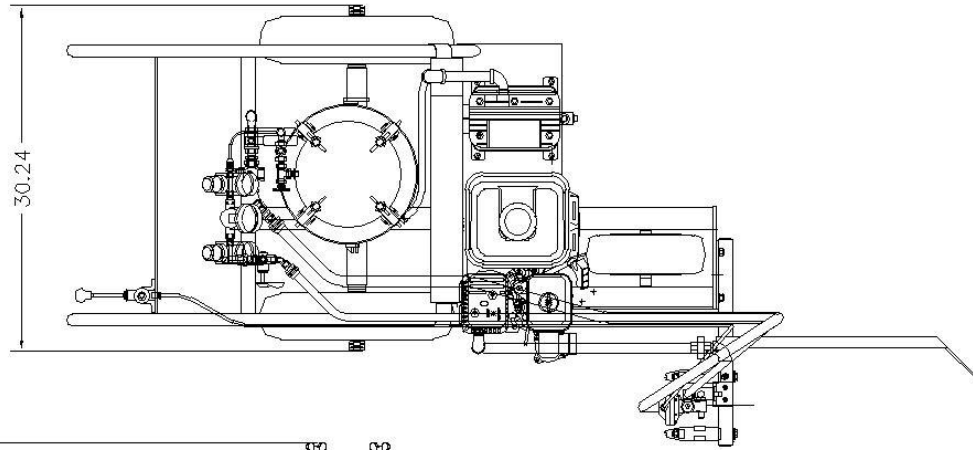


TOLERANCES UNLESS OTHERWISE SPECIFIED:  
 Angular ±2  
 Fractional ±1/16"  
 .X= ±.1  
 .XX=±.01  
 .XXX=±.005  
 .XXXX=±.0015

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 Springfield, OH 45504  
 937-325-3678  
**KC** Since 1937  
 DRAWN BY: CDW  
 DATE: 11-12-10  
 APPROVED BY: [Signature]  
 DATE APPROVED: [Signature]

TITLE:  
**HEAVY-DUTY MODEL C**  
 DESCRIPTION:  
**GENERAL CALLOUTS**  
 DWG NO./PART NO.: PO-HDC TOP LEVEL REV A  
 SCALE: NA  
 SIZE: NA  
 PAGE #: 1-3  
 REV: A



TOLERANCES UNLESS OTHERWISE SPECIFIED:  
 Angular  $\pm 2$   
 Fractional  $\pm 1/16$ "  
 .X =  $\pm .1$   
 .XX =  $\pm .01$   
 .XXX =  $\pm .005$   
 .XXXX =  $\pm .0015$

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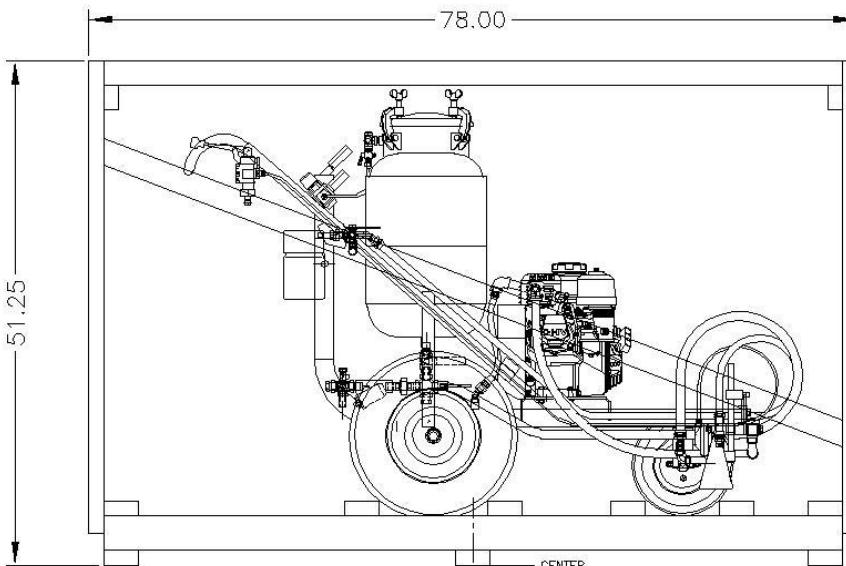
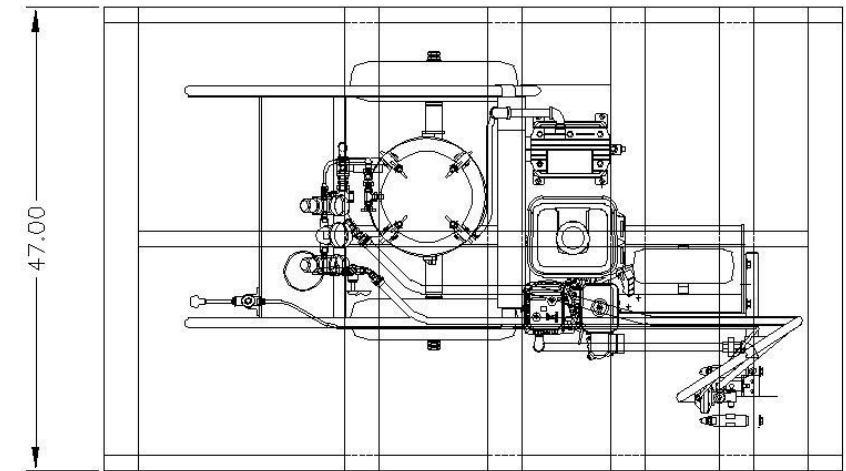
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TITLE:  
**HEAVY-DUTY MODEL C**  
 DESCRIPTION:  
**BASIC DIMENSIONS**

DRAWN BY CDW	DATE 11-12-10	DWG NO./PART NO. PO-HDC TOP LEVEL REV A			
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APPROVED BY	DATE APPROVED	SCALE: NA	SIZE: NA	PAGE #: 2-3	REV: A
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LENGTH (INCHES)	78"
WIDTH (INCHES)	47"
HEIGHT (INCHES)	51.25"
EST. SHIPPING WEIGHT	400 LBS
APPROX. CUBIC FEET	105'

TOLERANCES UNLESS OTHERWISE SPECIFIED:  
 Angular  $\pm 2^\circ$   
 Fractional  $\pm 1/16"$   
 .X =  $\pm .1$   
 .XX =  $\pm .01$   
 .XXX =  $\pm .005$   
 .XXXX =  $\pm .0015$

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 937-335-3070  
 Since 1937

TITLE: HEAVY-DUTY MODEL C			
DESCRIPTION: SHIPPING DIMENSIONS			
DRAWN BY CDW		DATE 11-8-10	
APPROVED BY		DATE APPROVED	
DWG NO./PART NO. PO-HDC TOP LEVEL REV A	SCALE: N/A	SIZE: A	PAGE #: 3-3
			REV: A

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 Rev C