Form # P 04

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND

Please Read Application And Notes, If Any, Attached

BU

Permit Number: 091378

This is to certify that ____MECHANICAL SERVICES IN Mechani

has permission to install an emergency generator f ower or cal exha

AT 400 PRESUMPSCOT ST

422 B015001

provided that the person or persons, first or composition according this permit shall comply with all of the provisions of the Statutes of Marce and of the Composition according to the Composition of the the construction, maintenance and use of buildings and structures, and of the application on file in this department.

Apply to Public Works for street line and grade if nature of work requires such information.

Noti ition of spectio nust be nd written permission rocured befo his building or part hereof is or oth éd-in. 24 lathe HOU NOTICE IS REQUIRED.

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

OTHER REQUIRED, APPROVALS

Fire Dept. _ CAPT.

Health Dept.

Appeal Board

Other _

Department Name

ilding & Inspection Services

PENALTY FOR REMOVING THIS CARD

389 Congress Street, 04101		ο, rax: (20/) 8/4-8/			422 B015001	
Location of Construction:	Owner Name:		Owner Address:		Phone:	
400 PRESUMPSCOT ST		AL SERVICES INC	400 PRESUMPS Contractor Address:			
Business Name:	Contractor Name				Phone	
				St Portland	2077741531	
Lessee/Buyer's Name	Phone:		Permit Type:		Zone:	
			Generator			
Past Use:	Proposed Use:		Permit Fee: \$270.00	Cost of Work:	CEO District:	
Commercial		Commercial - install an emergency generator for power outages w/		\$25,000.0		
	generator for p		FIRE DEPT:	Approved	SPECTION: e Group: Type:	
	Critical Canada	it shelled		☐ Denied Use Group		
			# See Cou	12000	IBC 2003	
Proposed Project Description:			17 742 COL	MITIOUS		
roposed Project Description: Install an emergency generator for power outages w/ critical exhaust		Signatura Kell		enature:		
silencer BNU PWW	yency in St	ormoar Callaust	Signature: PEDESTRIAN ACT			
			Action: Appro	ved Approve	ed w/Conditions Denied	
	Signature: Date:		Date:			
Permit Taken By:	Date Applied For: Zoning Approv		Annroval			
Ldobson	12/03/2009	Zoning Approvai			/	
1. This permit application de	This permit application does not preclude the Special Zone or Revie		ews Zoni	ng Appeal	Historic Preservation	
Applicant(s) from meeting		Shoreland	│	re.	Not in District or Landn	
Federal Rules.	2 -FF	Shortand			Thoras Bistrict of Building	
2. Building permits do not in	aclude plumbing	Wetland	Miscell	aneous	Does Not Require Revie	
septic or electrical work.	nerude planfollig,					
3. Building permits are void	if work is not started	Flood Zone	☐ Conditi	ional Use	Requires Review	
within six (6) months of the						
False information may inv		Subdivision	Interpre	etation	Approved	
permit and stop all work			1_		1	
		Site Plan exem	Approv	red	Approved w/Conditions	
		1 Applied	401			
		Maj Minor Mi	⊿ ☐ ☐ Denied		Denied	
DEDMIT ICC	HED	10K with co	C+than			
PERMIT ISS	UED	Date:	Ala Date:		Date:	
		7100	101-			
DEC 3 0 2007)		,			

City of Portlan	nd					
		CERTIFICAT				
I hereby certify that I am the o	wner of record of the na	amed property, or that	the proposed work i	is authorized by	the owner of record and th	
I have been authorized by the control in the contro	owner to make this apple	ncation as his authorized in the application is	eu agent and I agree issued. I certify that	the code officia	m applicable laws of tills il's authorized renresentativ	
shall have the authority to ente	r all areas covered by s	uch permit at any reason	onable hour to enfor	ce the provision	n of the code(s) applicable	
such permit.		,		-	• • • • • • • • • • • • • • • • • • • •	
•						
				P. COP	BHOVE	
IGNATURE OF APPLICANT ADDRES		SS DATE		PHONE		

DATE

PHONE

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE

BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (ONLY)

to schedule your inspections as agreed upon Permits expire in 6 months, if the project is not started or ceases for 6 months.

The Owner or their designee is required to notify the inspections office for the following inspections and provide adequate notice. Notice must be called in 48-72 hours in advance in order to schedule an inspection:

By initializing at each inspection time, you are agreeing that you understand the inspection procedure and additional fees from a "Stop Work Order" and "Stop Work Order Release" will be incurred if the procedure is not followed as stated below.

X	construction Meeting will take place up Footing/Building Location Inspection precast piers		
X	_ Re-Bar Schedule Inspection: Prior	o pouring concrete	
X	_ Final inspection required at comple	tion of work.	
your pro If any o REGAE CERIF	ate of Occupancy is not required for certa oject requires a Certificate of Occupancy. of the inspections do not occur, the properties of THE NOTICE OR CIRCULATE OF OCCUPANICES MUST BEACE MANY DE OCCUPANICES	All projects <u>DO require</u> a final inspice of the next phase UMSTANCES.	pection.
THE SI	PACE MAY BE OCCUPIED.		
Signatur	re of Applicant/Designee	Date	
 Signatur	re of Inspections Official	Date	

PERMIT ISSUED

DEC 3 0 2005

City of Portland

CBL: 422 B015001

Building Permit #: 09-1378

City of Portland, Maine - B	uilding or Use Permit		Permit No:	Date Applied For:	CBL:
389 Congress Street, 04101 Te	9		09-1378	12/03/2009	422 B015001
Location of Construction:	Owner Name:	Owner Name: Ov		Owner Address:	
400 PRESUMPSCOT ST	MECHANICAL SERV	ICES INC	400 PRESUMPSCO	OT ST	
Business Name:	Contractor Name:		Contractor Address:		Phone
	Mechanical Services, I	nc	400 Presumpscot S	t Portland	(207) 774-1531
Lessee/Buyer's Name	Phone:		Permit Type: Generator		
Proposed Use:		Propose	ed Project Description:		
Commercial - install an emergency critical exhaust silencer	y generator for power outage	silence		rator for power out	ages w/ critical exhaust
Dept: Zoning Status Note:	: Approved with Conditions	s Reviewer:	Marge Schmucka	Approval I	Oate: 12/04/2009 Ok to Issue: ✓
1) This generator is only for eme	rgency use. Any permanent	use will need a	separate review and	approval.	
Dept: Building Status Note:	: Approved	Reviewer	Tammy Munson	Approval I	Ok to Issue: ✓
Dept: Fire Status Note: 1) Install shall comply with all m	Approved with Conditions anufacture's specifications.	Reviewer:	Capt Keith Gautre	eau Approval I	Oate: 12/15/2009 Ok to Issue: ✓

Comments:

12/4/2009-mes: Wait for the site plan exemption sign off from planning.

12/23/2009-gg: received granted site plan exemption as of 12/23/09. /gg Put exemption with permit in plan reviewer's basket.

General Building Permit Application

property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: 400	PRESUMP.	SCOT ST. PORTLA	ND,
Total Square Footage of Proposed Structure/A	area	Square Footage of Lot 507 ACRES	Number of Stories N/A
Tax Assessor's Chart, Block & Lot	Applicant * <u>r</u>	nust be owner, Lessee or Buyer	*
Chart# Block# Lot#	Name CH	ristopher Green	(207) 774-1531
422-8-015-001		00 PRESUMPSCOT ST.	
422-3-15 PLEASE SEE ATTACHED	City, State &	Zip PORTLAND, ME	a 3
Lessee/DBA (If Applicable)	Owner (if di	fferent from Applicant)	Cost Of
	Name		Work: \$ 25,000
	Address		C of O Fee: \$
	City, State &	: Zip	Total Fee: \$ 270
	,,		Total Fee: \$ 7 / C
DURING POWER OUTAGES. U Contractor's name: MECHANICAL S Address: 400 PRESUMPSCOT	LERGENCY NIT WILL ERVICES ST.	GENERATOR ONLY HAVE AN CRITICAL	
City, State & Zip PONTLAND, A		103 Y	elephone: (201)774 153/
Who should we contact when the permit is read			•
Mailing address: 400 PRESUMPSCO	T ST.	PORTLAND, ME OU	1103
Please submit all of the information do so will result in the	automatic	denial of your permit.	SUC
n order to be sure the City fully understands the flay request additional information prior to the issuis form and other applications visit the Inspectionivision office, room 315 City Hall or call 874-8703.	uance of a per	mit. For further information of	eto downadoad copies of
thereby certify that I am the Owner of record of the nat I have been authorized by the owner to make this aws of this jurisdiction. In addition, if a permit for world athorized representative shall have the authority to entrovisions of the codes applicable to this permit.	pplication as his described in th	s/her authorized agent. I agree to nis application is issued, I certify I	conform to all applicable hat the Code Official's
ignature: Photos Grun	Date	12-2-09	
This is not a permit; you may n	ot commenc	e ANY work until the permit	t is issue



400 PRESUMPSCOT STREET PORTLAND, ME 04103-5292

72 FREEDOM PARKWAY HERMON, ME 04401-5788

76 CENTER ROAD EASTON, ME 04740-0377 FAX (207) 774-3837
TEL. (207) 848-5544
FAX (207) 848-5592

TEL. (207) 774-0220

TEL. (207) 488-6199 FAX (207) 488-6023

December 2, 2009

Mechanical Services, Inc., details for emergency generator.

Owner: Christopher Green. Mechanical Services, Inc. 400 Presumpscot St. Portland, Maine 04103.

Telephone number (207) 774 1531. Cellular phone (207) 831 2365.

We would like to install a Kohler emergency generator for our building located at 400 Presumpscot Street. The generator specifications are attached for your review.

The generator would only be used during a power outage. We have purchased the generator with a Critical Exhaust Silencer. The expected sound level would be 80 dba at 23 feet.

The generator will sit on a concrete pad custom made by Swan's Wilbert Vault Co. The pad is 4' wide, 8' long and 4" thick. The pad will sit on a 6 inch to 8 inch gravel base.

We have included a site plan showing where we would like to set the new generator. This is adjacent to the electrical entrance for our building.

Our account number is 42818. CBL 422-B-015-001. Presumpscot St 402-408 22100SF.

Seabee Electric located at 84 Pleasant Hill Road, Scarborough, Maine, will be the electrical sub-contractor for the project. Their telephone number is (207) 883-5448. Contact name Bill Johnson.

The cost of the entire project is approximately \$25,000.00 including all material and labor.

The generator will be set 3' from our building. The generator will be approximately 20' from the adjoining property line.



Application for Exemption from Site Plan Review Portland, Maine

Department of Planning and Urban Development, Planning Division and Planning Board

	ROJECT NAME: MECHANICAL SERVE ROJECT ADDRESS: 400 PRESUMPSC			
PF	OJECT DESCRIPTION: (Please Attach Sketch/Plan	of Propos	sal/Development)	
	INSTALATION OF AN EME	موديد	Y GENERATOR.	
-	VARIATION OF 1122 2 - 215 - 22	1		
Cr	HART/BLOCK/LOT: <u>422-B-015-</u> 00	1		
CC	ONTACT INFORMATION:			
	OWNER/APPLICANT	CONSL	ULTANT/AGENT	
	Name: CHIRIS GREEN	Name:		
	Address: 400 PRESUMPSCOT ST.	Address	:	
	PORTLAND, ME			
	Zip Code: OU103	Zip Cod	le:	
	Work #: (207) 774-1531	Work #:		•
	Cell #: (207) 831-2365	Cell #:		
	Fax #: $(207)553-2865$	Fax #:		
	Home #: (207) 831-2365	Home #	i:	
C	E-mail: <u>Cgraen e mechanical services</u> teria for Exemptions:	E-mail:		
	e Section 14-523 (4) on page 2 of this application)		Applicant's Assessment Y(yes), N(no), N/A	Planning Division Use Only
a)	Is the proposal within existing structures?		70	
р)	Are there any new buildings, additions, or demolitions?		70	
c)	Is the footprint increase less than 500 sq. ft.?			
	Are there any new curb cuts, driveways or parking areas? Are the curbs and sidewalks in sound condition?		No	
e) f)	Do the curbs and sidewalks comply with ADA?		103	
s)	Is there any additional parking?		70	
h)	Is there an increase in traffic?		70	
i)	Are there any known stormwater problems?		No	
j)	Does sufficient property screening exist?		Yes	
k)	Are there adequate utilities?		105	
P	lanning Division Use Only Exemption Gra	anted	Partial Exemption	Exemption Denied
P	anner's Signature		Date	

Work Order Swan's Wilbert Vault Co. Date W.O. No. 674 Bridgton Road 2404 11/12/2009 Westbrook, ME 04092 Service Date 11/12/2009 Name / Address **Delivery Details** Mechanical Services 400 Presumscot St. Portland, Maine 04103 **Contractor Price** Customer Phone 774 1531 P.O. No. **Project** S58535 Ordered Description U/M Item Custom made product 3' x 6' x 4" 1 **CUSTOM** Custom made product 4' x 8 x 4" with cutout (see CUSTOM 1 drawing) Delivery (if both delivered at the same time and in a DEL 1 3-5 day window)

> cgreen@mechanicalservices.com Sales Tax



KOHLER ® POWER SYSTEM

QUOTATION

TO:

Mechanical Services

ATTENTION:

Chris Green

FROM:

Jim Cesare

DATE:

October 23, 2009

We are pleased to quote the following equipment for the above referenced project:

QTY <u>1</u>, <u>Diesel</u> Fueled Generator Set, Kohler Model <u>60REOZJC</u> rated at 60 Kw / 75 KVA producing 208 Amps, at 120/208 Volts, 3 phase, 60 Hz with the following standard equipment:

☑ Unit Mounted Radiator

☑ Block Heater

☑ Critical Exhaust Silencer

☑ Kohler Weather Protective Enclosure

☑ Oil Drain Extension Kit

☑ Safeguard Breaker

☑ Run Relay

☑ 6 Amp Float Battery Charger

☑ One Year Warranty

☑ Dec 3+ Controller

Flexible Fuel & Exhaust Connectors

☑ Electronic Governor

☑ Line Circuit Breaker Rated 200 Amps

☑ Battery, Battery Rack & Cables

☑ Common Failure Relay

☑ ATS Rated at 200 Amps, NEMA 3R, KSS

☑ EPA Tier Level: 3

TOTAL NET PRICE, TAILGATE DELIVERY TO SITE: §



This price includes dealer prep., set on pad provided by others, installation technical assistance and Start-up and Warranty Authorization Inspection after the unit has been installed by others. This price is firm for 60 days.

TERMS: Gowen's standard terms are 25% down at the time of the order with the balance due on receipt of equipment from Kenler or delivered to job site.

DELIVERY: Current delivery on this equipment is (8) eight to (10) ten weeks after receipt of order and deposit.

NOTES/ OPTIONS:

Maine's Oldest Servicing Kohler Dealer

For Service Call: (207) 773-1761 / 1-800-564-6936

Model: 60REOZJC

KOHLER.POWER SYSTEMS

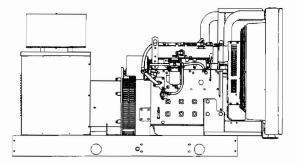
208-600 V

Diesel



Ratings Range

	_	60 Hz
Standby:	kW kVA	49-60 49-75
Prime:	kW kVA	45-54 45-68



Generator Set Ratings

				100 0 11100			Rise Rating
Alternator	Voltage	Ph	Hz	kW/kVA	Amps	kW/kVA	Amps
	120/208	3	60	60/75	208	54/68	187
	127/220	3	60	60/75	197	54/68	177
	120/240	3	60	60/75	180	54/68	162
4P8	120/240	1	60	49/49	204	45/45	188
420	139/240	3	60	60/75	180	54/68	162
	220/380	3	60	55/69	104	50/63	95
	277/480	3	60	60/75	90	54/68	81
	347/600	3	60	50/63	60	45/56	54
	120/208	3	60	60/75	208	54/68	187
	127/220	3	60	60/75	197	54/68	177
	120/240	3	60	60/75	180	54/68	162
4P10	120/240	1	60	54/54	225	50/50	208
4710	139/240	3	60	60/75	180	54/68	162
	220/380	3	60	60/75	114	54/6 8	103
	277/480	3	60	60/75	90	54/68	81
	347/600	3	60	60/75	72	53/66	64
4V7	120/240	1	60	57/57	238	51/51	213

Standard Features

- Kohler Co. provides one-source responsibility for the generating system and accessories.
- The generator set and its components are prototype-tested, factory-built, and production-tested.
- The 60 Hz generator set offers a UL 2200 listing.
- The generator set accepts rated load in one step.
- The 60 Hz generator set meets NFPA 110, Level 1, when equipped with the necessary accessories and installed per NFPA standards.
- The generator set complies with ISO 8528-5, Class G2, requirements for transient performance in all generator set configurations. Select the Decision-Maker[®] 550 controller for improved voltage regulation and ISO 8528-5, Class G3, compliance.
- The 60 Hz generator set engine is certified by the Environmental Protection Agency (EPA) to conform to Tier 3 nonroad emissions regulations.
- A one-year limited warranty covers all systems and components. Two-, five-, and ten-year extended warranties are also available.
- Alternator features:
- The unique Fast-Response[™] II excitation system delivers excellent voltage response and short-circuit capability using a permanent magnet (PM)-excited alternator.
- The brushless, rotating-field alternator has broadrange reconnectability.
- Other features:
 - Controllers are available for all applications. See controller features inside.
 - The low coolant level shutdown prevents overheating (standard on radiator models only).
 - Integral vibration isolation eliminates the need for under-unit vibration spring isolators.

RATINGS: All three-phase units are rated at 0.8 power factor. All single-phase units are rated at 1.0 power factor. Standby Ratings: Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3046/1, BS 5514, AS 2789, and DIN 6271. Prime Power Ratings: Prime power ratings apply to installations where utility power is unavailable or unreliable. At varying load, the number of generator set operating hours is unlimited. A 10% overload capability available for one hour in twelve. Ratings are in accordance with ISO-3828/1, overload power in accordance with ISO-3046/1, BS 5514, AS 2789, and DIN 6271. For immitted unning time and base load ratings, consult the factory. Obtain the technical information bulletin (TIB-101) on ratings guidelines for the complete ratings definitions. The generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever. GENERAL GUIDELINES FOR DERATION: Allitude: Derate 0.5% per 100 m (328 ft.) elevation above 2300 m (7546 ft.). Temperature: Derate 1.0% per 10°C (18°F) temperature above 25°C (77°F).

Alternator Specifications

Specifications	Alternator
Manufacturer	Kohler
Туре	4-Pole, Rotating-Field
Exciter type	Brushless, Permanent-Magnet
Leads: quantity, type	12, Reconnectable
Voltage regulator	Solid State, Volts/Hz
Insulation:	NEMA MG1
Material	Class H
Temperature rise	130°C, Standby
Bearing: quantity, type	1, Sealed
Coupling	Flexible Disc
Amortisseur windings	Full
Voltage regulation, no-load to full-load	
Permanent magnet (PM) alternator	±2% Average
550 controller (with 0.5% drift	
due to temperature variation)	3-Phase Sensing, ±0.25%
One-step load acceptance	100% of Rating
Unbalanced load capability	100% of Rated Standby Current
Peak motor starting kVA: 480 V 4P8 (12 lead) 480 V 4P10 (12 lead)	(35% dip for voltages below) 212 250
240 V 4V7 (4 lead)	215

- NEMA MG1, IEEE, and ANSI standards compliance for temperature rise and motor starting.
 - Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds.
 - Sustained short-circuit current enabling downstream circuit breakers to trip without collapsing the alternator field.
 - Self-ventilated and dripproof construction.
 - Vacuum-impregnated windings with fungus-resistant epoxy varnish for dependability and long life.
 - Superior voltage waveform from a two-thirds pitch stator and skewed rotor.
 - Fast-Response ™ II brushless alternator with brushless exciter for excellent load response.

Application Data

E	n	a	i	n	E
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Engine	
Engine Specifications	
Manufacturer	John Deere
Engine model	5030HF285G
Engine type	4-Cycle, Turbocharged
Cylinder arrangement	5 Inline
Displacement, L (cu. in.)	3.0 (186)
Bore and stroke, mm (in.)	86 x 105 (3.39 x 4.13)
Compression ratio	18.2:1
Piston speed, m/min. (ft./min.)	375 (1230)
Main bearings: quantity, type	6, Replaceable Insert
Rated rpm	1800
Max. power at rated rpm, kWm (BHP)	72 (97)
Cylinder head material	Cast Iron
Crankshaft material	Ductile Iron
Valve material:	
Intake	Chromium-Silicon Steel
Exhaust	Stainless Steel
Governor: type, make/model	JDEC Electronic, Level 18, EUP
Frequency regulation, no-load to full-load	isochronous
Frequency regulation, steady state	±0.25%
Frequency	Field-Convertible
Air cleaner type, all models	Dry

Exhaust

Exhaust System	
Exhaust manifold type	Dry
Exhaust flow at rated kW, m ³ /min. (cfm)	13.8 (488)
Exhaust temperature at rated kW, dry exhaust, °C (°F)	524 (976)
Maximum allowable back pressure, kPa (in. Hg)	7.5 (2.2)
Exhaust outlet size at engine hookup, mm (in.)	64.0 (2.5)

Engine Electrical

Engine Electrical System	
Battery charging alternator:	
Ground (negative/positive)	Negative
Volts (DC)	12
Ampere rating	70
Starter motor rated voltage (DC)	12
Battery, recommended cold cranking amps (CCA):	
Quantity, CCA rating	One, 640
Battery voltage (DC)	12

Fuel

. 401	
Fuel System	
Fuel supply line, min. ID, mm (in.)	11.0 (0.44)
Fuel return line, min. ID, mm (in.)	6.0 (0.25)
Max. lift, engine-driven fuel pump, m (ft.)	3.0 (10.0)
Max. fuel flow, Lph (gph)	82 (21.7)
Fuel prime pump	Manual
Fuel filter	
Secondary	5 Microns @ 98% Efficiency
Water Separator	Yes
Recommended fuel	#2 Diesel

Lubrication

Lubricating System	
Туре	Full Pressure
Oil pan capacity, L (qt.)	10.4 (11.0)
Oil pan capacity with filter, L (qt.)	11.3 (11.9)
Oil filter: quantity, type	1, Cartridge
Oil cooler	Water-Cooled

Application Data

Cooling

Radiator System		
Ambient temperature, °C (°F)*	50 (122)	
Engine jacket water capacity, L (gal.)	3.4 (0.9)	
Radiator system capacity, including engine, L (gal.)	11.0 (2.9)	
Engine jacket water flow, Lpm (gpm)	98 (26)	
Heat rejected to cooling water at rated kW, dry exhaust, kW (Btu/min.)	45.9 (2612)	
Heat rejected to air charge cooler at rated kW, dry exhaust, kW (Btu/min.)	13.0 (740)	
Water pump type	Centrifugal	
Fan diameter, including blades, mm (in.)	597 (23.5)	
Fan, kWm (HP)	4.1 (5.5)	
Max. restriction of cooling air, intake and discharge side of radiator, kPa (in. H ₂ O)	0.125 (0.5)	

* Enclosure reduces ambient temperature capability by 5°C (9°F).

Operation Requirements

Air Requirements	
Radiator-cooled cooling air, m³/min. (scfm)‡	96 (3400)
Combustion air, m ³ /min. (cfm)	5.3 (187)
Heat rejected to ambient air:	
Engine, kW (Btu/min.)	15.5 (880)
Alternator, kW (Btu/min.)	8.9 (505)

‡ Air density = 1.20 kg/m 3 (0.075 lbm/ft 3)

Fuel Consumption	
Diesel, Lph (gph) at % load	Standby Rating
100%	19.1 (5.0)
75%	14.4 (3.8)
50%	10.1 (2.7)
25%	6.0 (1.6)
Diesel, Lph (gph) at % load	Prime Rating
100%	17.5 (4.6)
75%	13.1 (3.5)
50%	9.2 (2.4)
25%	5.8 (1.5)

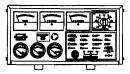
Controllers



Decision-Maker® 550 Controller

Audiovisual annunciation with NFPA 110 Level 1 capability. Programmable microprocessor logic and digital display features. Alternator safeguard circuit protection. 12- or 24-volt engine electrical system capability. Remote start, remote annunciation, and remote communication options.

Refer to G6-46 for additional controller features and accessories.



Decision-Maker® 3+, 16-Light Controller

Audiovisual annunciation with NFPA 110 Level 1 capability. Microprocessor logic, AC meters, and engine gauge features.

12- or 24-volt engine electrical system capability. Remote start, prime power, and remote annunciation options. Refer to G6-30 for additional controller features and accessories. KOHLER CO., Kohler, Wisconsin 53044 USA Phone 920-565-3381, Fax 920-459-1646 For the nearest sales and service outlet in the US and Canada, phone 1-800-544-2444 KohlerPower.com Kohler Power Systems Asia Pacific Headquarters 7 Jurong Pier Road Singapore 619159 Phone (65) 6264-6422, Fax (65) 6264-6455

Additional Standard Features

- Alternator Protection (standard with 550 controller)
- Battery Rack and Cables
- Oil Drain and Coolant Drain w/Hose Barb
- · Oil Drain Extension (with narrow skid and enclosure models only)
- Operation and Installation Literature
- Radiator Drain Extension (with enclosure only)

Available Options

Approvals and Listings

- ☐ CSA Approval
- ☐ IBC Seismic Certification
- ☐ UL2200 Listing

Enclosed Unit

- Sound Enclosure (with enclosed critical silencer)
- ☐ Weather Enclosure (with enclosed critical silencer)
- ☐ Weather Housing (with roof-mounted critical silencer)

Open Unit

- ☐ Exhaust Silencer, Critical (kit: PA-324470)
- ☐ Exhaust Silencer, Hospital (kit: GM32386-KP1)
- ☐ Flexible Exhaust Connector, Stainless Steel

Fuel System

- Auxiliary Fuel Pump
- ☐ Flexible Fuel Lines
- ☐ Fuel Pressure Gauge
- Subbase Fuel Tanks

Controller

- Common Failure Relay
- ☐ Communication Products and PC Software (550 controller only)
- Customer Connection
- Dry Contact (isolated alarm)
- Engine Prealarm Sender (16 light controller only)
- ☐ Prime Power Switch (550 controller only)
- Remote Annunciator Panel
- ☐ Remote Audiovisual Alarm Panel
- Remote Emergency Stop
- ☐ Remote Mounting Cable
- Run Relay

Cooling System

- Block Heater; Recommended for Ambient Temperatures
- Below 0°C (32°F)

Radiator Duct Flange Electrical System

- ☐ Alternator Strip Heater
- Battery
- ☐ Battery Charger, Equalize/Float Type
- Battery Heate
- ☐ Line Circuit Breaker (NEMA type 1 enclosure)
- ☐ Line Circuit Breaker with Shunt Trip (NEMA type 1 enclosure)
- Safeguard Breaker (not available with 550 controller)

Paralleling System

- ☐ Reactive Droop Compensator
- Remote Speed Adjust Control/Electronic Governor
- ☐ Voltage Adjust Control
- → Voltage Regulator Relocation

Miscellaneous

- Air Cleaner, Heavy Duty
- ☐ Air Cleaner Restriction Indicator
- ☐ Closed Crankcase Vent
- ☐ Engine Fluids (oil and coolant) Added
- □ Rated Power Factor Testing
- ☐ Rodent Guards

☐ Skid End Caps

Literature

- ☐ General Maintenance
- NFPA 110
- Overhaul
- Production

Warranty

- ☐ 2-Year Basic
- 2-Year Prime
- □ 5-Year Basic
- ☐ 5-Year Comprehensive
- ☐ 10-Year Major Components

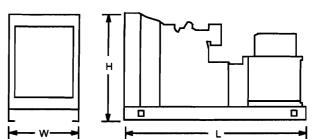
Other Options

Dimensions and Weights

Overall Size, L x W x H, mm (in.):

Wide Skid: 2300 x 1040 x 1133 (90.55 x 40.94 x 44.61) Narrow Skid: 1998 x 780 x 1067 (78.66 x 30.71 x 42.01)

Weight (radiator model), wet, kg (lb.): 892 (1966)



NOTE: This drawing is provided for reference only and should not be used for planning installation. Contact your local distributor for more detailed information.

DISTRIBUTED BY:



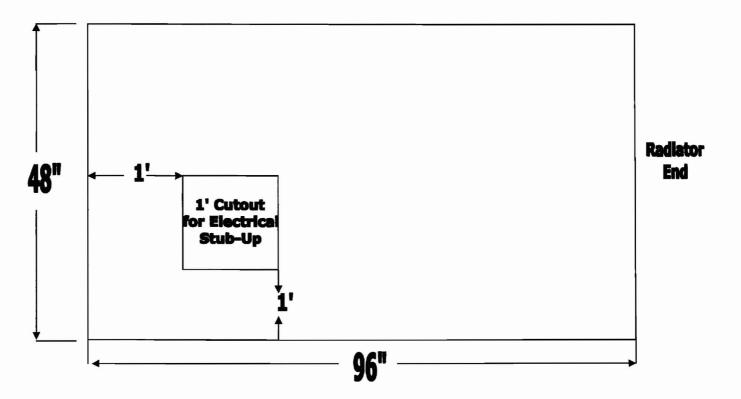
400 COMMERCIAL ST. PORTLAND, ME. 04101 207:773:1761 ♦ 800.564.6836



Delivered to
400 Presumpset ST, Patland

Kohler 60REZG Pad Design

Unit Dimensions: 86.6" Overall Length 40.5" Overall Width



Minimum Thickness: 4" Thick

-- Drawing NOT to Scale --



Application for Exemption from Site Plan Review Portland, Maine

Department of Planning and Urban Development, Planning Division and Planning Board

PROJECT NAME: MECHANICAL SEG PROJECT ADDRESS: 400 PRESUMPS		
PROJECT ADDRESS: 400 (RESUMPS	COT 31.	
PROJECT DESCRIPTION: (Please Attach Sketch/Pla	an of Proposal/Development)	
INSTALATION OF AN EM	ERGENCY GENERATOR.	
CHART/BLOCK/LOT: 422-B-015-00	5 l	
CONTACT INFORMATION:		
OWNER/APPLICANT	CONSULTANT/AGENT	
Name: CHRIS GREEN	Name:	
Address: 400 PRESUMPSCOT ST.	Address:	
PORTLAND, ME		
Zip Code: OU103	Zip Code:	
Work #: (207) 774-1531	Work #:	DEC 2 3 2009
Cell #: (207) 831-2365	Cell #:	Dept. of Building Inspect
Fax #: (207) 553-2865	Fax #:	City of Portland Maine
Home #: (207) 831-2365	Home #:	
E-mail: <u>cgreen@mechanicals</u> envices	E-mail:	
Criteria for Exemptions: (See Section 14-523 (4) on page 2 of this application)	Applicant's Assessment Y(yes), N(no), N/A	Planning Division Use Only
a) Is the proposal within existing structures?		ND No
b) Are there any new buildings, additions, or demolitions?	70	No No
c) Is the footprint increase less than 500 sq. ft.?		<u> </u>
d) Are there any new curb cuts, driveways or parking areas?	<u> </u>	NO
e) Are the curbs and sidewalks in sound condition?	<u> 163</u> 165	NIA
f) Do the curbs and sidewalks comply with ADA? g) Is there any additional parking?	No.	
S) Is there any additional parking? n) Is there an increase in traffic?	NO	n/a
Are there any known stormwater problems?	NO	
) Does sufficient property screening exist?	100	No
s) Are there adequate utilities?	405	Yes
~ .	nons of approvals.	mption Denied
Planner's Signature	M Date 12.21.09	Wals.

~ Original - Planning Division ~

~ Copy - Inspections Division and Applicant ~

PROVISION OF PORTLAND CITY CODE 14-523 (SITE PLAN ORDINANCE) RE: EXEMPTIONS FROM SITE PLAN REVIEW

Sec. 14-523. Approval required.

No person shall undertake any development without obtaining approval therefore under this article.

- The Planning authority shall exempt from review under all standards in this article developments that meet all of the following requirements:
 - a. The proposed development will be located within existing structures, and there will be no new buildings, demolitions, or building additions other than those permitted by subsection b of this section;
 - b. Any building addition shall have a new building footprint expansion of less than five hundred (500) square feet;
 - c. The proposed site plan does not add any new curb cuts, driveways, or parking areas; the existing site has no more than one (1) curb cut and will not disrupt the circulation flows and parking on-site; and there will be no drive-through services provided;
 - d. The curbs and sidewalks adjacent to the lot are complete and in sound condition, as determined by the public works authority, with granite curb with at least four (4) inch reveal, and sidewalks are in good repair with uniform material and level surface and meet accessibility requirements of the Americans with Disabilities Act;
 - e. The use does not require additional or reduce existing parking, either on or off the site, and the project does not significantly increase traffic generation;
 - f. There are no known stormwater impacts from the proposed use or any existing deficient conditions of stormwater management on the site;
 - g. There are no evident deficiencies in existing screening from adjoining properties; and
 - h. Existing utility connections are adequate to serve the proposed development and there will be no disturbance to or improvements within the public right-of-way.

A developer claiming exemption under this subsection shall submit a written request for exemption stating that the proposed meets all of the provisions in standards a-h of this subsection, including an itemized statement by a qualified professional. Upon receipt of such a request, the planning authority will visit the site to verify that the exemption is applicable due to compliance with the standards. The planning authority, after consultation with the public works authority, shall render a written decision within twenty (20) working days after receipt of a written request for exemption that contains all the information required by this subsection. If a full exemption is granted, the application shall be approved without further review under this article, and no performance guarantee shall be required. The planning authority may require full site plan review of a project that meets the criteria of this subsection if it determined that there is a substantial public interest in the project.

In the event that the planning authority determines that standards a and b of this subsection and at least four (4) of the remaining standards have been met, the planning authority shall review the site plan under the review standards in section 14-526 that are affected by the standards in this subsection that have not been met. An application that receives review by the planning board shall receive a complete review under the standards of section 14-526. The planning authority shall notify an applicant in writing that full or partial site plan review is required, the reasons for the decision, and the information that will be required for site plan review.

IMPORTANT NOTICE TO APPLICANT

An Exemption from site plan review does not exempt this proposal from other approvals or permits, nor is it an authorization for construction. You should first check with the Building Inspections Office, Room 315, City Hall (874-8703), to determine what other City permits, such as a building permit, will be required.

Planning Shukria Wiar

December 21, 2009

Approved with the following conditions of approval:

- 1. The generator shall have a noise suppression mechanism installed.
- 2. The generator shall only be tested on weekdays (Monday through Friday) between 12:00 PM and 4:00 PM.
- 3. The generator shall be fully enclosed by arborvitaes.
- 4. The applicant must obtain all applicable building permits.

General Building Permit Application

property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: 400	PRESUMP	SCOT ST. PORTLA	ND,
Total Square Footage of Proposed Structure/A	Area	Square Footage of Lot 507 ACRES	Number of Stories
Tax Assessor's Chart, Block & Lot	Applicant *	must be owner, Lessee or Buye	Telephone:
Chart# Block# Lot#	Name CH	RISTOPHER GREEN	(207) 774-1531
422-3-015-001		OO PRESUMPSCOT ST	· ·
PLEASE SEE ATTACHED	City, State &	& Zip PORTLAND, ME	.03
Lessee/DBA (If Applicable)	Owner (if d	ifferent from Applicant)	Cost Of
	Name		Work: \$ 25,000
	Address		C of O Fee: \$
	City, State &	k Zip	Total Fee: \$ <u>270</u>
Is property part of a subdivision? NO Project description: TWSTALLAN E DURING POWER OUTAGES. Contractor's name: Name MANIEMS	NE126ENC)NIT WILL	Y GENERATOR_ OALY - HAUE AN CRITICAL	(TO BY 01 KD
Contractor's name: MECHANICAL S		•	
Address: 400 PRESUMPSCOT			
City, State & Zip PontLAND, 1	UE 04	T ()	elephone: (201) 774 153/
Who should we contact when the permit is rea			
Mailing address: 400 PRESUMPSCO	T ST.	YOUTLAND, ME OL	4103
Please submit all of the information	outlined o	n the applicable Checkli	ist. Failure to
do so will result in the	e automatio	denial of your permit.	ions
n order to be sure the City fully understands the nay request additional information prior to the is his form and other applications visit the Inspection office, room 315 City Hall or call 874-8703. Thereby certify that I am the Owner of record of the report I have been authorized by the owner to make this two of this jurisdiction. In addition, if a permit for wouthorized representative shall have the authority to errovisions of the codes applicable to this permit.	suance of a person	ermit. For further information of the information is issued. It is application is issued. It is application in the information in the information in the information is issued. It is application in the information in the in	orizes the proposed work and conform to all applicable
signature: Photos Gric	_ Dat	e: 12-2-09	
TILL:		A N TS7	



400 PRESUMPSCOT STREET PORTLAND, ME 04103-5292

72 FREEDOM PARKWAY HERMON, ME 04401-5788

76 CENTER ROAD EASTON, ME 04740-0377 TEL. (207) 774-0220 FAX (207) 774-3837 TEL. (207) 848-5544 FAX (207) 848-5592

TEL. (207) 488-6199 FAX (207) 488-6023

December 2, 2009

Mechanical Services, Inc., details for emergency generator.

Owner: Christopher Green. Mechanical Services, Inc. 400 Presumpscot St. Portland, Maine 04103.

Telephone number (207) 774 1531. Cellular phone (207) 831 2365.

We would like to install a Kohler emergency generator for our building located at 400 Presumpscot Street. The generator specifications are attached for your review.

The generator would only be used during a power outage. We have purchased the generator with a Critical Exhaust Silencer. The expected sound level would be 80 dba at 23 feet.

The generator will sit on a concrete pad custom made by Swan's Wilbert Vault Co. The pad is 4' wide, 8' long and 4" thick. The pad will sit on a 6 inch to 8 inch gravel base.

We have included a site plan showing where we would like to set the new generator. This is adjacent to the electrical entrance for our building.

Our account number is 42818. CBL 422-B-015-001. Presumpscot St 402-408 22100SF.

Seabee Electric located at 84 Pleasant Hill Road, Scarborough, Maine, will be the electrical sub-contractor for the project. Their telephone number is (207) 883-5448. Contact name Bill Johnson.

The cost of the entire project is approximately \$25,000.00 including all material and labor.

The generator will be set 3' from our building. The generator will be approximately 20' from the adjoining property line.

Swan's Wilbert Vault Co. Work Order W.O. No. Date 674 Bridgton Road 11/12/2009 2404 Westbrook, ME 04092 Service Date 11/12/2009 Name / Address **Delivery Details** Mechanical Services 400 Presumscot St. Portland, Maine 04103 Contractor Price Customer Phone 774 1531 P.O. No. Project **S**58535 Ordered Description U/M Item CUSTOM Custom made product 3' x 6' x 4" 1 Custom made product 4' x 8 x 4" with cutout (see 1 CUSTOM drawing) Delivery (if both delivered at the same time and in a DEL 1 3-5 day window)

> cgreen@mechanicalservices.com Sales Tax



KOHLER ® POWER SYSTEM

QUOTATION

TO:

Mechanical Services

ATTENTION:

Chris Green

FROM:

Jim Cesare

DATE:

October 23, 2009

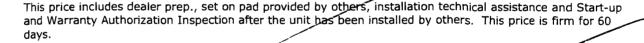
We are pleased to quote the following equipment for the above referenced project:

QTY <u>1</u>, <u>Diesel</u> Fueled Generator Set, Kohler Model <u>60REOZJC</u> rated at 60 Kw / 75 KVA producing 208 Amps, at 120/208 Volts, 3 phase, 60 Hz with the following standard equipment:

- ☑ Unit Mounted Radiator
- ☑ Block Heater
- ☑ Critical Exhaust Silencer
- ☑ Kohler Weather Protective Enclosure
- ☑ Oil Drain Extension Kit
- ☑ Safeguard Breaker
- ☑ Run Relay
- ☑ 6 Amp Float Battery Charger
- ✓ One Year Warranty

- ✓ Dec 3+ Controller
- Flexible Fuel & Exhaust Connectors
- ✓ Electronic Governor
- ☑ Line Circuit Breaker Rated 200 Amps
- ☑ Battery, Battery Rack & Cables
- ☑ Common Failure Relay
- ☑ ATS Rated at 200 Amps, NEMA 3R, KSS
- ☑ EPA Tier Level: 3

TOTAL NET PRICE, TAILGATE DELIVERY TO SITE:



TERMS: Gowen's standard terms are 25% down at the time of the order with the balance due on receipt of equipment from Kehler or delivered to job site.

DELIVERY: Current delivery on this equipment is (8) eight to (10) ten weeks after receipt of order and deposit.

NOTÉS/ OPTIONS:

Maine's Oldest Servicing Kohler Dealer

For Service Call: (207) 773-1761 / 1-800-564-6936

Model: 60REOZJC

KOHLER, POWER SYSTEMS

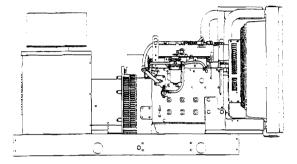
208-600 V

Diesel



Ratings Range

	00 112
kW	49-60
kVA	49-75
kW	45-54
kVA	45-68
	kVA kW



60 Hz

Generator Set Ratings

			-	130°C Rise Standby Rating		105°C Prime F	
Alternator	Voltage	Ph	Hz	kW/kVA	Amps	kW/kVA	Amps
	120/208	3	60	60/75	208	54/68	187
	127/220	3	60	60/75	197	54/68	177
	120/240	3	60	60/75	180	54/68	162
450	120/240	1	60	49/49	204	45/45	188
4P8	139/240	3	60	60/75	180	54/68	162
	220/380	3	60	55/69	104	50/63	9 5
	277/480	3	60	60/75	90	54/68	81
	347/600	3_	60	50/63	60	45/56	54
	120/208	3	60	60/75	208	54/68	187
	127/220	3	60	60/75	197	54/68	177
	120/240	3	60	60/75	180	54/68	162
.=40	120/240	1	60	54/54	225	50/50	208
4P10	139/240	3	60	60/75	180	54/68	162
	220/380	3	60	60/75	114	54/68	103
	277/480	3	60	60/75	90	54/68	81
	347/600	3	60	60/75	72	53/66	64
4V7	120/240	1	60	57/57	238	51/51	213

Standard Features

- Kohler Co. provides one-source responsibility for the generating system and accessories.
- The generator set and its components are prototype-tested, factory-built, and production-tested.
- The 60 Hz generator set offers a UL 2200 listing.
- The generator set accepts rated load in one step.
- The 60 Hz generator set meets NFPA 110, Level 1, when equipped with the necessary accessories and installed per NFPA standards.
- The generator set complies with ISO 8528-5, Class G2, requirements for transient performance in all generator set configurations. Select the Decision-Maker[®] 550 controller for improved voltage regulation and ISO 8528-5, Class G3, compliance.
- The 60 Hz generator set engine is certified by the Environmental Protection Agency (EPA) to conform to Tier 3 nonroad emissions regulations.
- A one-year limited warranty covers all systems and components. Two-, five-, and ten-year extended warranties are also available.
- Alternator features:
 - The unique Fast-Response ™ II excitation system delivers excellent voltage response and short-circuit capability using a permanent magnet (PM)-excited alternator.
 - The brushless, rotating-field alternator has broadrange reconnectability.
- · Other features:
 - Controllers are available for all applications. See controller features inside.
 - The low coolant level shutdown prevents overheating (standard on radiator models only).
 - Integral vibration isolation eliminates the need for under-unit vibration spring isolators.

RATINGS: All three-phase units are rated at 0.8 power factor. All single-phase units are rated at 1.0 power factor. Standby Ratings: Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3046/1, BS 5514, AS 2789, and DIN 6271. Prime Power Ratings: Prime power ratings apply to installations where utility power is unavailable or unreliable. At varying load, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO-3528/1, overload power in accordance with ISO-3046/1, BS 5514, AS 2789, and DIN 6271. For limited running time and base load ratings, consult the factory. Obtain the technical information bulletin (TiB-101) on ratings guidelines for the complete ratings definitions. The generator set manufacturer reserves the neght to change the design or specifications without notice and without any obligation or liability whatsoever. GENERAL GUIDELINES FOR DERATION: Attitude: Derate 0.5% per 100 m (328 ft.) elevation above 2300 m (7546 ft.). Temperature: Derate 1.0% per 10°C (18°F) temperature above 25°C (77°F).

G5-317 (60REOZJC) 9/09c

Alternator Specifications

Specifications	Alternator
Manufacturer	Kohler
Туре	4-Pole, Rotating-Field
Exciter type	Brushless, Permanent-Magnet
Leads: quantity, type	12, Reconnectable
Voltage regulator	Solid State, Volts/Hz
Insulation:	NEMA MG1
Material	Class H
Temperature rise	130°C, Standby
Bearing: quantity, type	1, Sealed
Coupling	Flexible Disc
Amortisseur windings	Full
Voltage regulation, no-load to full-load	
Permanent magnet (PM) alternator	±2% Average
550 controller (with 0.5% drift	
due to temperature variation)	3-Phase Sensing, ±0.25%
One-step load acceptance	100% of Rating
Unbalanced load capability	100% of Rated Standby Current
Peak motor starting kVA: 480 V 4P8 (12 lead)	(35% dip for voltages below) 212
480 V 4P10 (12 lead)	250

215

- NEMA MG1, IEEE, and ANSI standards compliance for temperature rise and motor starting.
- Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds.
- Sustained short-circuit current enabling downstream circuit breakers to trip without collapsing the alternator field.
- Self-ventilated and dripproof construction.
- Vacuum-impregnated windings with fungus-resistant epoxy varnish for dependability and long life.
- Superior voltage waveform from a two-thirds pitch stator and skewed rotor.
- Fast-Response[™] Il brushless alternator with brushless exciter for excellent load response.

Application Data

Engine

240 V

4V7 (4 lead)

Engine	
Engine Specifications	
Manufacturer	John Deere
Engine model	5030HF285G
Engine type	4-Cycle, Turbocharged
Cylinder arrangement	5 Inline
Displacement, L (cu. in.)	3.0 (186)
Bore and stroke, mm (in.)	86 x 105 (3.39 x 4.13)
Compression ratio	18.2:1
Piston speed, m/min. (ft./min.)	375 (1230)
Main bearings: quantity, type	6, Replaceable Insert
Rated rpm	1800
Max. power at rated rpm, kWm (BHP)	72 (97)
Cylinder head material	Cast Iron
Crankshaft material	Ductile Iron
Valve material:	
Intake	Chromium-Silicon Steel
Exhaust	Stainless Steel
Governor: type, make/model	JDEC Electronic, Level 18, EUP
Frequency regulation, no-load to full-load	Isochronous
Frequency regulation, steady state	±0.25%
Frequency	Field-Convertible
Air cleaner type, all models	Dry

Exhaust

Exhaust System	
Exhaust manifold type	Dry
Exhaust flow at rated kW, m ³ /min. (cfm)	13.8 (488)
Exhaust temperature at rated kW, dry exhaust, °C (°F)	524 (976)
Maximum allowable back pressure, kPa (in. Hg)	7.5 (2.2)
Exhaust outlet size at engine hookup, mm (in.)	64.0 (2.5)

Engine Electrical

Engine Electrical		
Engine Electrical System		_
Battery charging alternator:		
Ground (negative/positive)	Negative	
Volts (DC)	12	
Ampere rating	70	
Starter motor rated voltage (DC)	12	
Battery, recommended cold cranking amps (CCA):		
Quantity, CCA rating	One, 640	
Battery voltage (DC)	12	

Fuel

, aoi	
Fuel System	
Fuel supply line, min. ID, mm (in.)	11.0 (0.44)
Fuel return line, min. ID, mm (in.)	6.0 (0.25)
Max. lift, engine-driven fuel pump, m (ft.)	3.0 (10.0)
Max. fuel flow, Lph (gph)	82 (21.7)
Fuel prime pump	Manual
Fuel filter	
Secondary	5 Microns @ 98% Efficiency
Water Separator	Yes
Recommended fuel	#2 Diesel

Lubrication

Lubricating System	·
Туре	Full Pressure
Oil pan capacity, L (qt.)	10.4 (11.0)
Oil pan capacity with filter, L (qt.)	11.3 (11.9)
Oil filter: quantity, type	1, Cartridge
Oil cooler	Water-Cooled

Application Data

Cooling

Radiator System	
Ambient temperature, °C (°F)*	50 (122)
Engine jacket water capacity, L (gal.)	3.4 (0.9)
Radiator system capacity, including engine, L (gal.)	11.0 (2.9)
Engine jacket water flow, Lpm (gpm)	98 (26)
Heat rejected to cooling water at rated kW, dry exhaust, kW (Btu/min.)	45.9 (2612)
Heat rejected to air charge cooler at rated kW, dry exhaust, kW (Btu/min.)	13.0 (740)
Water pump type	Centrifugal
Fan diameter, including blades, mm (in.)	597 (23.5)
Fan, kWm (HP)	4.1 (5.5)
Max. restriction of cooling air, intake and discharge side of radiator, kPa (in. $\rm H_2O$)	0.125 (0.5)

* Enclosure reduces ambient temperature capability by 5°C (9°F).

Operation Requirements

Air Requirements	
Radiator-cooled cooling air, m³/min. (scfm)±	96 (3400)
Combustion air, m ³ /min. (cfm)	5.3 (187)
Heat rejected to ambient air:	
Engine, kW (Btu/min.)	15.5 (880)
Alternator, kW (Btu/min.)	8.9 (505)

Air density = 1.20 kg/m³ (0.075 lbm/ft³)

Fuel Consumption		
Diesel, Lph (gph) at % load	Standby	Rating
100%	19.1	(5.0)
75%	14.4	(3.8)
50%	10.1	(2.7)
25%	6.0	(1.6)
Diesel, Lph (gph) at % load	Prime	Rating
100%	17.5	(4.6)
75%	13.1	(3.5)
50%	9.2	(2.4)
25%	5.8	(1.5)

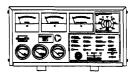
Controllers



Decision-Maker® 550 Controller

Audiovisual annunciation with NFPA 110 Level 1 capability.
Programmable microprocessor logic and digital display features.
Alternator safeguard circuit protection.
12- or 24-volt engine electrical system capability.

Remote start, remote annunciation, and remote communication options. Refer to G6-46 for additional controller features and accessories.



Decision-Maker® 3+, 16-Light Controller

Audiovisual annunciation with NFPA 110 Level 1 capability. Microprocessor logic, AC meters, and engine gauge features. 12- or 24-volt engine electrical system capability. Remote start, prime power, and remote annunciation options. Refer to G6-30 for additional controller features and accessories.

KOHLER CO., Kohler, Wisconsin 53044 USA Phone 920-565-3381, Fax 920-459-1646 For the nearest sales and service outlet in the US and Canada, phone 1-800-544-2444 KohlerPower.com

Kohler Power Systems Asia Pacific Headquarters 7 Jurong Pier Road Singapore 619159 Phone (65) 6264-6422, Fax (65) 6264-6455

Δ	dditi	onal	Stand	ard f	-eatures
---	-------	------	-------	-------	----------

- Alternator Protection (standard with 550 controller)
- Battery Rack and Cables
- · Oil Drain and Coolant Drain w/Hose Barb
- Oil Drain Extension (with narrow skid and enclosure models only)
- Operation and Installation Literature
- Radiator Drain Extension (with enclosure only)

Available Options

Approvals and Listings CSA Approval ☐ IBC Seismic Certification UL2200 Listing **Enclosed Unit** Sound Enclosure (with enclosed critical silencer) Weather Enclosure (with enclosed critical silencer) Weather Housing (with roof-mounted critical silencer) Open Unit Exhaust Silencer, Critical (kit: PA-324470) Exhaust Silencer, Hospital (kit: GM32386-KP1) Flexible Exhaust Connector, Stainless Steel Auxiliary Fuel Pump Flexible Fuel Lines Fuel Pressure Gauge Subbase Fuel Tanks Controller Common Failure Relay Communication Products and PC Software (550 controller only) **Customer Connection** Dry Contact (isolated alarm) ☐ Engine Prealarm Sender (16 light controller only) Prime Power Switch (550 controller only) Remote Annunciator Panel Remote Audiovisual Alarm Panel Remote Emergency Stop Remote Mounting Cable Run Relay Cooling System Block Heater; Recommended for Ambient Temperatures Below 0°C (32°F) Radiator Duct Flange **Electrical System** Alternator Strip Heater Battery Charger, Equalize/Float Type \Box Battery Heater Line Circuit Breaker (NEMA type 1 enclosure)

Line Circuit Breaker with Shunt Trip (NEMA type 1 enclosure) Safeguard Breaker (not available with 550 controller)

	Reactive Droop Compensator Remote Speed Adjust Control/Electronic Governor Voltage Adjust Control
	Voltage Regulator Relocation
	Miscellaneous
\supset	Air Cleaner, Heavy Duty
	Air Cleaner Restriction Indicator
3	Closed Crankcase Vent
	Engine Fluids (oil and coolant) Added
\Box	Rated Power Factor Testing
	Rodent Guards
	Skid End Caps
	Literature
	General Maintenance
	NFPA 110
	Overhaul
	Production
	Warranty
	2-Year Basic
	2-Year Prime
	5-Year Basic
ā	5-Year Comprehensive

Dimensions and Weights

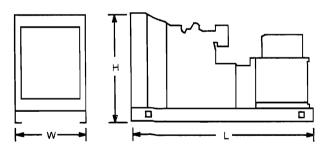
Overall Size, L x W x H, mm (in.):

☐ 10-Year Major Components

Other Options

Paralleling System

Wide Skid: 2300 x 1040 x 1133 (90.55 x 40.94 x 44.61) Narrow Skid: 1998 × 780 × 1067 (78.66 × 30.71 × 42.01) Weight (radiator model), wet, kg (lb.): 892 (1966)



NOTE: This drawing is provided for reference only and should not be used for planning installation. Contact your local distributor for more detailed information.

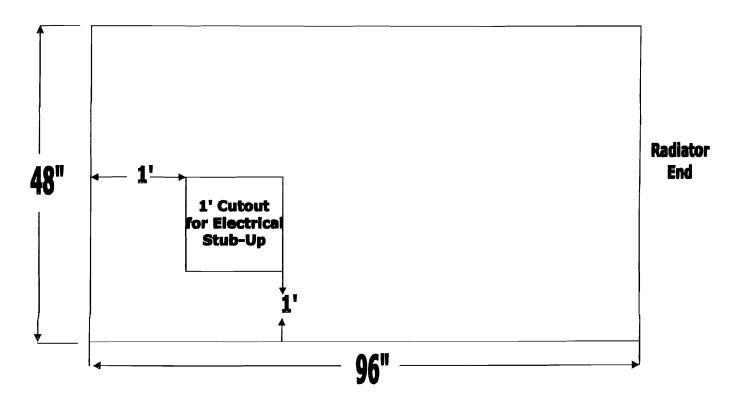




Delivered to 400 REsumpser & ST, Palland

Kohler 60REZG Pad Design

Unit Dimensions: 86.6" Overall Length 40.5" Overall Width



Minimum Thickness: 4" Thick

-- Drawing NOT to Scale --

Assessor's Office | 389 Congress Street | Portland, Maine 04101 | Room 115 | (207) 874-8486

City Home Departments City Council E-Services Calendar Jobs

This page contains a detailed description of the Parcel ID you selected. Press the **New Search** button at the bottom of the screen to submit a new query.

Current Owner Information:

िश पर्ण ८ ६०	CBL Land Use Type	418A A004001 SINGLE FAMILY
	Property Location	410 PRESUMPSCOT ST
n tobles loos	Owner Information	BROWN MARGARET B 410 PRESUMPSCOT ST PORTLAND ME 04103
in AC LESTAGES	Book and Page	
· · Ł., C	Legal Description	418A-A-4 PRESUMPSCOT ST 410-412
Tan Reifell	Acres	16981 SF 0.39
Tax Red	ACTES	0.39

261.

Current Assessed Valuation:

arowse city	TAX ACCT NO.	42754	OWNER OF RECORD AS OF APRIL 2009 BROWN MARGARET B
services a-z	LAND VALUE	\$67,600.00	410 PRESUMPSCOT ST
CONTRACTOR AND DESCRIPTION OF STREET, WHILE LOWER	BUILDING VALUE	\$67,100.00	PORTLAND ME 04103
6 by right 200 to process on the recent Country Country Country	HOMESTEAD EXEMPTION	(\$12,350.00)	
browse facts and	NET TAXABLE - REAL ESTATE	\$122,350.00	
lin'es a-z	TAX AMOUNT	\$2,170.50	

Any information concerning tax payments should be directed to the Treasury office at 874-8490 or e-mailed.

Building Information:

	Card 1 of 1
Year Built	1947
Style/Structure Type	OLD STYLE
# Stories	1.5
Bedrooms	2
Full Baths	1
Total Rooms	4
Attic	NONE
Basement	CRAWL
Square Feet	962
View Skatch	Viou Man
Attic Basement	NONE CRAWL



$Outbuildings/Y ard\ Improvements:$

Card 1

Year Built	1993
Structure	UTILITY BUILDING - FRAME
Size	8X10
Units	1
Grade	С
Condition	Α

New Search!

