Form # P 04 DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK **CITY OF PORTLAND** Please Read <u>TI</u>ON BU Application And Notes, If Any, PERMIT Attached Permit Number: 091290 ------- 6 6 ST ICOULL This is to certify that -City-Of Portland/ES Boulos Co any NEV 2 4 2009 has permission to Install standby emergency gene AT -109 Middle St CI 028 N001001 pting this permit shall to make with all sulión ar provided that the person or persons, fi or co of the provisions of the Statutes of Marie and of the Area proces of the City of Portland regulating the construction, maintenance and us the buildings and structures, and of the application on file in this department. Not ation o spectid must b Apply to Public Works for street line nd writt bermissi give brocure A certificate of occupancy must be and grade if nature of work requires this bui ig or p hereof i befo procured by owner before this buildsuch information. or oth ing or part thereof is occupied. lath sed-in. 2 HOU NOTICE IS REQUIRED. OTHER BEQUIRED APPROVALS Fire Dept. Starwall. AC F Health Dept. Appeal Board Cin Director - Building & Inspection Services Other Department Name PENALTY FOR REMOVING THIS CARD

	y of Portland, Maine - B	uilding or Use]	Permit Application	Permit No:	Issue Date:	CBL:
-	Congress Street, 04101 Tel	-			0	028 N001001
Loca	tion of Construction:	Owner Name:		Owner Address:		Phone:
109	Middle St	City Of Portla	nd	389 Congress St		
Business Name: Contractor Name			:	Contractor Address: Phone		
	tland Police Department	ES Boulos Co	mpany	45 Bradley Dr	ve Westbrook	2074643706
Lesse	e/Buyer's Name	Phone:		Permit Type:		Zone: _>
				Alterations - C	Commercial	ワン
Past	Use:	Proposed Use:		Permit Fee:	Cost of Work:	CEO District:
Poli	ce Department	1 -	ment / Install standby	\$1,000.0		0 1
emergency gen		emergency ger	lerator.	FIRE DEPT: 10/10-20140-5 11/16/09	Approved Use	e Group NA Generator BC-2003
Prop	osed Project Description:				1 20 - 1-	
Inst	all standby emergency generate	or.		Signature:		nature: MB 11/27/09
				PEDESTRIAN A	CTIVITIES DISTRIC	T (P.A.D) [, '
				Action: Ap	oroved Approve	d w/Conditions Denied
				Signature:		Date:
Perm	it Taken By: Date	e Applied For:		Zoni	ng Approval	
gg	11	/13/2009				
1.	This permit application does n		Special Zone or Review	ws Z	oning Appeal	Historic Preservation
1.		not preclude the	Special Zone or Review	ws Z		Historic Preservation
	This permit application does n Applicant(s) from meeting app	not preclude the plicable State and		Vari		
2.	This permit application does n Applicant(s) from meeting app Federal Rules. Building permits do not includ septic or electrical work. Building permits are void if we	not preclude the plicable State and le plumbing, ork is not started	Shoreland	☐ Vari	ince	Not in District or Landmark
2.	This permit application does n Applicant(s) from meeting app Federal Rules. Building permits do not includ septic or electrical work.	not preclude the plicable State and de plumbing, ork is not started ate of issuance.	Shoreland Wetland	Vari Miso	ellaneous	Not in District or Landmark
2.	This permit application does n Applicant(s) from meeting app Federal Rules. Building permits do not includ septic or electrical work. Building permits are void if w within six (6) months of the da False information may invalid	not preclude the plicable State and de plumbing, ork is not started ate of issuance.	Shoreland Wetland Flood Zone	Vari Miso	ince ellaneous litional Use pretation	Not in District or Landmark Does Not Require Review Requires Review
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2.	This permit application does n Applicant(s) from meeting app Federal Rules. Building permits do not includ septic or electrical work. Building permits are void if w within six (6) months of the da False information may invalid permit and stop all work	tot preclude the plicable State and de plumbing, ork is not started ate of issuance. ate a building	Shoreland Wetland Flood Zone Subdivision Site Plan Axi Minor MM CH. 10. Th. Com	Cond Cond Cond Cond Cond Cond Cond Cond	ance ellaneous litional Use pretation oved	 Not in District or Landmark Does Not Require Review Requires Review Approved Approved w/Conditions Denied

CERTIFICATION

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE

LINV OF PORTIANO, MIAINE -	Building or Use Permit		Permit No:	Date Applied For:	CBL:
389 Congress Street, 04101 7	0		09-1290	11/13/2009	028 N001001
Location of Construction:					Phone:
109 Middle St	City Of Portland		389 Congress St		
Business Name:	Contractor Name:		Contractor Address:	. <u></u>	Phone
Portland Police Department	ES Boulos Company		45 Bradley Drive	Westbrook	(207) 464-3706
Lessee/Buyer's Name	Phone:		Permit Type:		
			Alterations - Con	mercial	
Proposed Use:		Propose	d Project Description	:	
Police Department / Install stand	by emergency generator.		standby emergenc		
	,		,		
		1			
]			
Dept: Zoning Statu	is: Approved with Condition	s Roviewer:	Marge Schmuck	al Approval I	Date: 11/16/2009
• •	is. Approved with condition		indige Seminder		
Note:			indige Seminuer		Ok to Issue:
• •			-		Ok to Issue:
Note: 1) This permit is being issued b		generator status	s. If the status of th	ne generator changes	Ok to Issue:
Note: 1) This permit is being issued b	based upon an EMERGENCY	generator status	s. If the status of th	ne generator changes	Ok to Issue:
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Comments:

11/16/2009-mes: site plan exemption given to planning

11/20/2009-jmb: Spoke to Russell C. About the pad details, he will email. Also this is a skid mounted generator with diesel tank below, no mounting requirements. He also verified the exhaust duct will will travel back into the building and tie into the exisiting exhaust shaft. Received the fax with details, ok to issue pending planning approval.

11/20/2009-mes: received something from Kathy Alves concering installing additional sound protection around the generator. Planning is still reviewing.

11/24/2009-gg: received granted site exemption on 11/24/09. /gg Filed with permit (Jeannie)

CITAL SURGAL

General Building Permit Application

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment asrangements must be made before permits of any kind are accepted.

Location/Address of Construction: Public	Safety Building, 109	Middle Stroot
Total Square Footage of Proposed Structure/ 96 SQ FT (MCrete P	Area Square Footage of Lot	Number of Stories
T'ax Assessor's Chart, Block & Lot	Applicant *must be owner, Lessee or Bu	yer* Telephone:
$\begin{array}{ccc} & \text{Chart#} & \text{Block#} & \text{Lot#} \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & & \\ & & & & \\ & & & & \\$	Name City of Portland Address Police Department	t E74-8654
FOFIVED	City, State & Zip 109 Middle St	ruct
Lessee/DEA(ICApploable)	Owner (if different from Applicant)	Cost Of
unt 13 2009	Name	Work: \$ 1,000
	Address	C of O Fee: \$
Dept. of Building Inspections City of Portland Maine	City, State & Zip	Total Fee: \$ 1,000 .00
	Children Resident	tial Units
It vacant what was the previous use?		
Proposed Specific use:	Menerator - structy	Unit
ls property part of a subdivision?	If yes, please name	
Project description: Install Stand michanical room on a	by Emerginy generator	outside the
michanical room on a	in exterior concrete f	nd.
Contractor's name: <u>ES Boula</u>	s company	
Address: 45 Bradley Dr	ive, to	
City, State & Zip	ne 04092	Felephone: <i>J07-444-3706</i>
Who should we contact when the permit is read	y: Junell Chesley, P.M. 7	Eelephone: 2074/04-3706-
Mailing address: 45 Bradley	Krive U	XX Ce

Please submit all of the information outlined on the applicable Checklist. Failure to do so will result in the automatic denial of your permit.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information or to download copies of this form and other applications visit the Inspections Division on-line at <u>www.portlandmaine.gov</u>, or stop by the Inspections Division office, room 315 City Hall or call 874-8703.

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

Signature:	Rusullhely Date: 11/10/09
	This is not a permit; you may not commence ANY work until the permit is issue
Revised 07-11-08	v

E.S. Boulos Company

Integrated Power and Building Technologies

Corporate Office 45 Bradlev Drive Westbrook, ME 04092 Tele: (207)464-3706 Fax: (207)464-1833

Utility/Industrial Office

70 Commercial Street Lewiston, ME 04240 Tele: (207)784-0906 Fax: (207)784-9426

CHANGE ORDER PROPOSAL #1

To: Kathy Alves Portland, City of City Hall 389 Congress St Portland, ME 04101 Ph: (207)874-8893 Fax: (207)874-8473

Number: 1 Date: 11/23/09 Job: PORT09-127 Public safety generator Contract/P.O.:

Job Site Phone:

Description: Upgrade the Generator housing to a Level ! enclosure to reduce noise.

Reason: Owner Request Initiated by: Kathy Alves (Portland, City of) Source: Other

Scope:

We are pleased to offer the following specifications and pricing to make the following changes:

Furnish the Kohler Eemergency Standby Generator Set with a level #1 enclosure with an anticipated db level of dba at the 23' measured distance.

This is a reduction of approxamately 16dba.

Detail:	Price
ADD LEVEL #1 ENCLOSURE	\$8,800.00
	Subtotal: \$8,800.00
	Total: \$8,800.00

1. We reserve the right to correct this proposal for errors or omissions.

2. This proposal covers direct costs only and we reserve the right to claim for cumulative impact and consequential costs.

3. This price is good for acceptance until .

4. This change order shall be billed concurrent with our base contract.

5. This proposal is based on the logical implementation of the added work into the schedule in a productive and uninterrupted manner.

6. Please note, per our subcontract we cannot proceed on this extra work without written notice to proceed.

7. We request a time extension of To be determined, days to complete this extra work.

8. This proposal does not include excavation, mechanical, and or concrete work unless otherwise noted.

9. All work to be completed during the regular work week (Monday thru Friday from 7:00am to 3:30pm), unless otherwise noted. Please issue your written notice to proceed by so that this additional work maybe incorporated into the project schedule without delay.

Accepted by: Mov. 23, 2009

Cc:

Date

RECEIVED OT Building Inspections City of Portland Maine

Portland, City of

Date

P.03/04

Portland Public Safety **Generator Project** Addendum #2 Items September 8, 2009

Based on further investigation, the intent of this project has been modified to locate the new generator directly outside of the existing generator room on the Franklin Street Side of the building, in the vicinity of the existing louvers, approximately 10 feet from the building. As such it shall be furnished with a weather-tight enclosure and 500-gallon skid-mounted fuel tank. Exhaust piping will be routed back to the existing stack located in the existing generator room. Additional work will include the furnishing of a concrete slab sized such that it is 6" longer than the skid on all four sides as well as the removal of the generator room louvers and installing new brick to match the existing brick already on the building. In addition to the items listed above, please modify the specification as follows:

Specification Section 16000 - General Electrical Requirements

2.1.1 General Scope:

Modify to read:

"The work to be accomplished under these specifications includes providing all labor, materials, equipment, consumable items, supervision, administrative tasks, tests and documentation required to remove the existing generator and furnish and install a new diesel engine generator outside of the existing generator room at the Portland Public Safety Building."

2.2(D):

Modify to read:

"D. Removal of existing intake and exhaust louvers: Remove existing intake and exhaust louvers and auxiliary equipment. New brick to match existing building brick shall be installed to close in wall where louvers were located. The city of Portland shall approve brick prior to installation."

2.2(E):

"E. Concrete pad: Contractor shall furnish a new concrete pad to install the generator, skid and tank. Concrete pad shall be a minimum of 8" thick reinforced with #3 gauge steel wire mesh horizontally placed on 6" centers or #6 reinforcing bars on 12" centers. Coordinate location of electrical stub up area with generator furnished."

Specification Section 16600 - Diesel Generator

2.11 Coolant Heater:

Add the flowing subsection:

"E. Furnish 120V circuit wiring in 1" conduit for coolant heaters from existing panel located outside of the electrical room. Conduits shall be EMT where located indoors and PVC schedule 40 installed 24" below-grade where located outdoors. Conductors shall be sized for the size heater provided as per NEC and any new breakers required furnished by this contractor,"

2.12 Exhaust Silencer's and Associated Piping: Subsection A, sentence 2 to be modified to read: "The muffler shall be industries CONTRACTOR SERVED

NOV 20 2009 Dept. of Building Inspections City of Portland Maine

City of Portland, Maine Code of Ordinances Sec 14-221 Land Use Chapter 14 Rev. 2-21-01

(i) Historic resources: The exterior design of proposed or renovated structures located within historic districts shall be subject to the provisions of article IX of this chapter. The exterior design of proposed or renovated structures located adjacent to historic districts or historic resources shall be subject to section 14-526(a)(18). (ord. No. 241-91, 3-11-91)

Sec. 14-221.1. External effects.

Every use in the B-3, B-3b and B-3c zones shall be subject to the following requirements:

- (a) Enclosed structure: The use shall be operated within a completely enclosed structure, except for those uses customarily operated in the open air.
- (b) Noise: The level of sound, measured by a sound level meter with frequency weighting network (manufactured according to standards prescribed by the American National Standards Institute, Inc.), inherently and recurrently within the B-3 and B-3b zones shall not exceed fifty-five (55) decibels on the A scale between the hours of 9:00 p.m. and 7:00 a.m., and sixty (60) decibels on the A scale between 7:00 a.m. and 9:00 p.m. at the boundaries of any lot nor within publicly accessible pedestrian open space, except for sound from construction activities, sound from traffic on public streets, sound from temporary activities such as festivals, and sound created as a result of, or relating to, an emergency, including sound from emergency warning signal devices. In measuring sound levels under this section, sounds with a continuous duration of less than sixty (60) seconds shall be measured by the maximum reading on a sound level meter set to the A weighted scale and the fast meter response (L maxfast). Sounds with a continuous duration of sixty (60) seconds or more shall be measured on the basis of the energy average sound level over a period of sixty (60) seconds (LEQ_1) .
- (c) Vibration: Vibration inherently and recurrently generated shall be imperceptible without instruments at lot boundaries.

If you have any questions reference the above statements or need further technical information on this project please contact me at Power Products.

Sincerely, Dave Coughlan

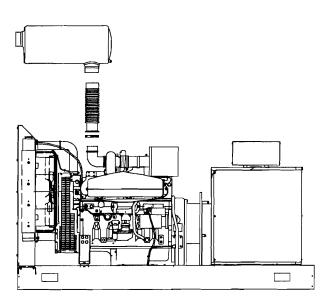
Power Products Inc. Generator Sales 207-797-5188 (office) 207-797-5953 (fax) 207-233-7451 (cell phone)

Industrial Generator Set Accessories

KOHLER.POWER SYSTEMS

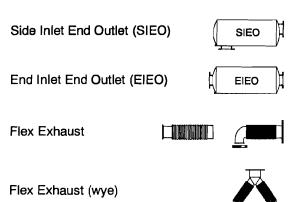
Silencers and Exhaust Systems





Legend

Use the information below for identifying the exhaust system components shown in the illustrations on the following pages.



Kohler Co. offers silencers rated for hospital, critical, residential, and industrial applications and stainless steei flexible exhaust connectors for unhoused generator sets. The accessories described in this spec sheet apply to open units unless otherwise stated. These silencers withstand exhaust flow pressure and temperature without creating excessive engine backpressure.

Silencer Type	Noise Reduction dB(A)	Amblent Noise Level	Silencing Requirement
Hospital	32-42	Low	Very High
Critical	25-35	Low	High
Residential	18-25	Low-Medium	Medium
Industrial	12-18	Medium-High	Low-Medium

Silencer and Exhaust System Selection

Select the silencer based on the required degree of exhaust noise reduction using the four silencer ratings in the table above. In addition, select the silencer inlet/ outlet type using the legend descriptions.

Note: Some generator set models may not offer all exhaust system combinations.

Use the illustrations on the following pages to select the available silencer type and exhaust system configuration best suited for your application. Refer to your authorized distributor/dealer for silencer and component kit numbers and for silencer dimensions.

Backpressure Considerations

Consult the generator set spec sheet to determine the maximum allowable exhaust backpressure. Add the backpressure produced by the silencer and exhaust piping together to determine the total exhaust system backpressure. Contact an authorized distributor/dealer to calculate backpressure in the exhaust piping. Do not exceed the maximum allowable backpressure.

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Model Gas

Model	Page	Model	Page	Model	Page
jas		Diesel		Diesel, continued	
25RZGB	3	20ROZJB	5	400REOZDC	7
30RZG	3	20REOZJB	5	400REOZDD	7
30RZGB	3	20REOZJC	5	400REOZVC	8
35RZG	3	30REOZJB	5	450REOZDB	7
40REZG	3	30REOZJC	5	450REOZDD	7
45REZG	3	40REOZJB	5	450REOZVB	8
45RZG	3	40REOZJC	5	500REOZVB	8
50REZG	3	50REOZJB	5	550REOZV	8
50RZGB	3	50REOZJC	5	600REOZM	12
60REZG	3	60REOZJB	5	600REOZMB	12
60RZG	3	60REOZJC	5	600REOZV	8
80REZG	3	80REOZJB	5	650REOZDB	9
80RZG	3	80REOZJC	5	650REOZDC	10
100REZG	3	80REOZJD	5	700REOZDD	10
100RZG	3	100REOZJB	6	750REOZDB	9
125REZG	3	100REOZJC	5	750REOZDC	10
125RZG	3	100REOZJD	5	750REOZM	12
150REZG	3	125REOZJB	6	750REOZMB	12
150RZGB	3	125REOZJD	6	800REOZDB	9
180REZX	4	135REOZJC	6	800REOZDD	10
180RZX	4	150REOZJB	6	800REOZM	12
200REZX	4	150REOZJC	6	800REOZMB	12
200RZX	4	150REOZJD	6	900REOZDB	9
400RZW	4	180REOZJB	6	900REOZDC	10
600RZW	4	180REOZJC	6	900REOZDD	10
800RZW	4	180REOZJD	6	900REOZM	12
		200REOZJB	6	900REOZMB	12
		200REOZJC	6	1000REOZDB	9
		200REOZJD	6	1000REOZDC	10
		230REOZDB	7	1000REOZDD	10
		230REOZDD	7	1000REOZM	12
		230REOZJB	6	1000REOZMB	12
		230REOZJD	6	1250REOZDC	11
		230REOZJE	6	1250REOZM	12
		250REOZDB	7	1250REOZMB	12
		250REOZDD	7	1500REOZDB	9
		250REOZJC	6	1500REOZDC	11
		250REOZJD	6	1600REOZM	12
		250REOZJE	6	1600REOZMB	12
		275REOZDB	7	1750REOZDC	11
		275REOZDD	7	1750REOZMB	12
		275REOZJD	6	1820REOZM	12
		275REOZJE	6	2000REOZDB	9
		275REOZV	8	2000REOZDC	11
		300REOZDB	7	2000REOZM	12
		300REOZDD	7	2000REOZMB	12
		300REOZV	8	2250REOZDC	11
		350REOZDC	7	2500REOZDB	11
		350REOZDD	7	2forBEO.ZDB	11
		25005070/0	2	1 00 DEOLT	44

G6-39 7/09z Page 2

350REOZVC

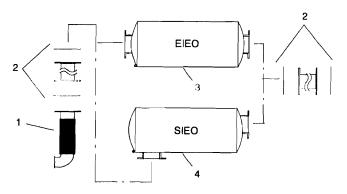
30. REOND

3250REOZD

Diesel

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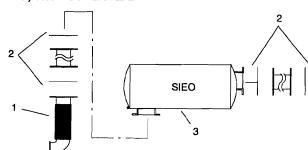
230-2	275REOZDB		
4m	Mark Billing and State		Size, In/Out
1	Flex Exhaust, 6" or 6" *	1	·····
2	Weld Flange, 6" or 8" †	2	
3	Hospital Siluncer EIEO	1	8"
4	Hospital Silencer SIEO	1	8"
3	Critical Silencer EIEO	1	6"
4	Critical Silencer SIEO	1	6"
3	Residential Silencer EIEO	1	6"
4	Residential Silencer SIEO	1	6"
3	Industrial Silencer EIEO	1	6'
4	Industrial Silencer SIEO	1	6"
OORI	EOZDB		·····
em	Exhaust System Kits	Qty. in Kit	Size, In/Out
1	Flex Exhaust, 8" *	1	
2	Weld Flange, 8" †	2	
3	Hospital Silencer EIEO	1	8"
4	Hospital Silencer SIEO	1	8"
3	Critical Silencer EIEO	1	8"
4	Critical Silencer SIEO	1	8"
3	Residential Silencer EIEO	1	8"
4	Residential Silencer SIEO	1	8"
3	Industrial Silencer EIEO	1	8"
	Industrial Silencer SIEO	1	8"



230-450REOZDD, 350/400REOZDC, and 450REOZDB

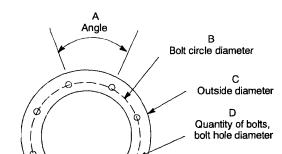
ltem	Exhaust System Kits	Qty. In Kit	Size, In/Out
1	Flex Exhaust, 8" *	1	
2	Weld Flange, 8" †	2	
3	Hospital Silencer SIEO	1	8"
3	Critical Silencer SIEO	1	8"
incl	includes exhaust clamp and kit ude an insulation blanket.	ts for 400REOZDO	C/450REOZDB

† One kit includes (2) exhaust flanges, (2) gaskets, and the mounting hardware. See Weld Flange Kits for additional data.

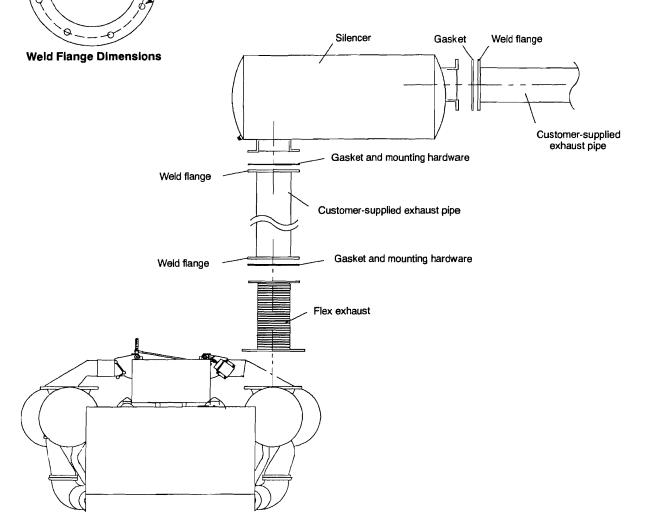


Weld Flange Kits

Use the weld flange kit to connect the exhaust silencer to customer-supplied exhaust pipe. One weld flange kit includes two exhaust flanges, two gaskets, and the mounting hardware.



ANSI Class 150 Flange Dimensions				
Nominal Pipe Size, in.	A ೭೦.	B mr.: (ln.)	C mm (ln.)	D Qty., mm (in.)
5	45	215.90 (8.50)	254.0 (10.0)	8,22.23 (0.88)
6	45	241.30 (9.50)	279.4 (11.0)	8,22.23 (0.88)
8	45	298.45 (11.75)	342.9 (13.5)	8,22.23 (0.88)
10	30	361.95 (14.25)	406.4 (16.0)	12,25.40 (1.00)
12	30	431.80 (17.00)	482.6 (19.0)	12,25.40 (1.00)
14	30	476.25 (18.75)	533.4 (21.0)	12,28.58 (1.13)
16	22.5	539.75 (21.25)	596.9 (23.5)	16,28.58 (1.13)
18	22.5	577.85 (22.75)	635.0 (25.0)	16,31.75 (1.25)
20	18	635.00 (25.00)	698.5 (27.5)	20,31.75 (1.25)



G6-39 7/09z Page 13

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

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

DISTRIBUTED BY:

Availability is subject to change without notice. Kohler Co. reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever. Contact your local Kohler® generator set distributor for availability.

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G6-39 7/09z Page 14

Tramont Corporation

Sales

 3701 N. Humboldt Boulevard
 Phone: 414-967-8800
 e-ma

 Milwaukee, WI
 USA
 53212
 Fax: 414-967-8811
 Inter

e-mail: <u>sales@tramont.com</u> Internet: <u>www.tramont.com</u>

Quote number: BK9-90032

Date: 11/6/09

Contact:	Dave Coughlan
Company:	Power Products Systems
Subject:	14 gauge housing request

We are pleased to provide the following proposal: Package designed for **400REOZDD 40C**, **Genset drawing ADV-6947** Tramont enclosure number **1400-7768** includes Weather protective enclosure, steel construction, designed to mount to genset base rail **Internal** silencer, flex, elbow and rain-cap included Enclosure is powder coated **Kohler Cream** Extend oil and coolant drains to exterior with valves Duct radiator (customer to provide duct flange on genset) **660** gallon double wall sub base fuel tank (will NOT accept spring isolators) Low fuel level alarm, leak detection alarm, normal vent, emergency vents, removable end channel *a* lockable fill cap

Pick up of genset from factory included Steel surcharge included – price valid through 12/31/09

ADDITIONAL OPTIONS INCLUDED:

None

CUSTOMER EXPECTATIONS:

Provide genset with duct adaptor, fuel lines, out-bound freight.

EXCEPTION/CLARIFICATION:

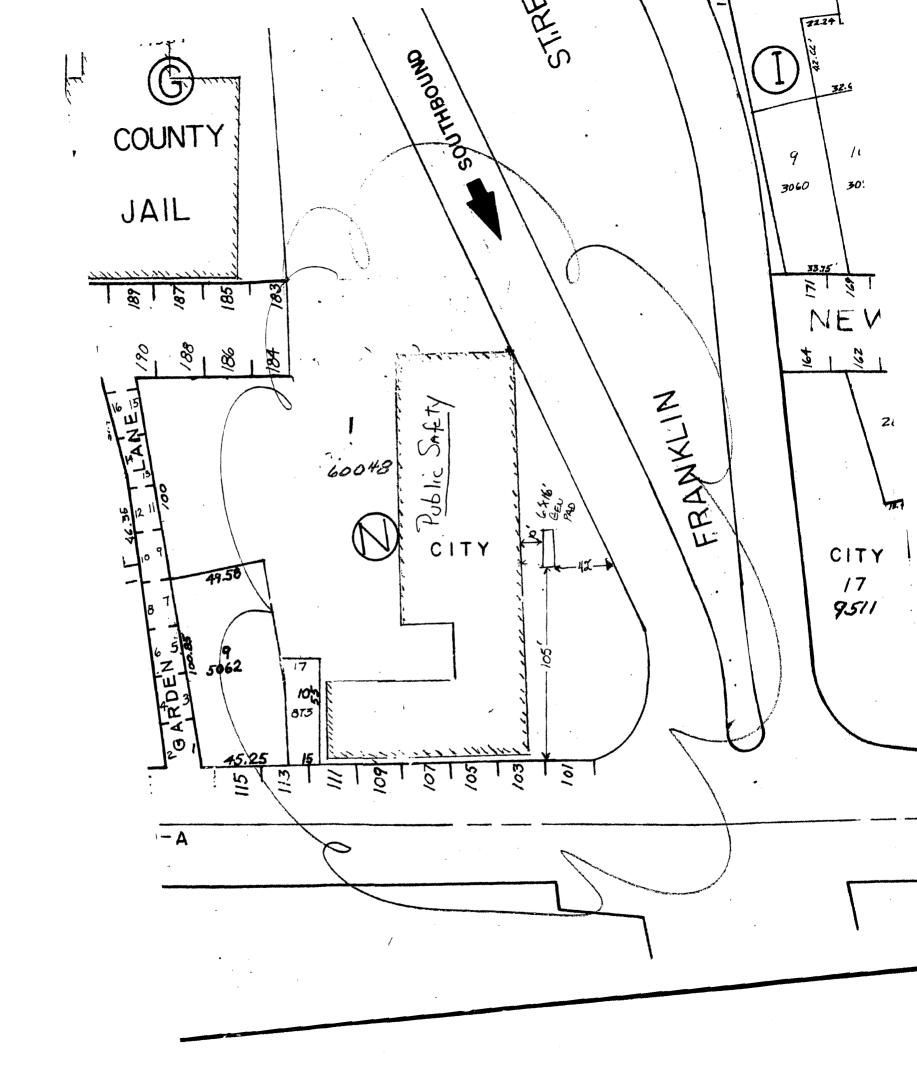
Enclosure body is manufactured of 14 gauge, enclosure louver bladders are manufactured of 18 gal Enclosure includes extension box for extending breaker (see drawing) Tank capacity is 660 gallons.

Terms and Conditions. All items freight not allowed. Shipping point Milwaukee, WI USA. All prod net 30 days and subject to credit approval. Delivery interval negotiated upon receipt of order with approved drawings. Items in quotation subject to buyer's review and approval.

From:	Kathy Alves
То:	David Margolis-Pineo, Marge Schmuckal, Barbara Barhydt
Date:	11/20/2009 5:49:44 AM
Subject:	Public Safety Generator

Per our conversation on 11/19/09 the City's Trades Division will install additional sound protection around the proposed generator in such a way that is adequate with the planning boards long term goal of Franklin Arterial. Russ, were you able to obtain any further info on the other enclosure? Please forward any of the info to all included on this e-mail. Thanks

CC: rchesley@esboulos.com





Application for Exemption from Site Plan Review

Portland, Maine

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

Portland PROJECT NAME: Me 109 PROJECT ADDRESS: \mathcal{M}_{i} on Han

PROJECT DESCRIPTION: (Please Attach Sketch/Plan of Proposal/Development)

Concrete pad for emergency EXTERIOR Gener

CHART/BLOCK/LOT:

CONTACT INFORMATION:

	OWNER// Name: Address: Zip Code: Work #: Cell #: Fax #:	<u>City of Portland</u> <u>389 Congressist.</u> <u>Portland</u> , Mc <u>04101-3509</u> <u>207.374.8873</u> <u>207.233.8523</u> <u>874-8473</u>	CONSUL Name: Address: Zip Code: Work #: Cell #: Fax #:	<u>TANT/AGENT</u> <u>Russell</u> <u>E.S. Bou <u>464-37</u></u>	56	RECEIVED NOV 2 4 2009 Dept. of Building Inspections City of Portland Maine
	Home #: E-mail:	Kra@portlandmaine.gov	Home #: E-mail:			
	<u>teria for Exen</u> e Section 14-5			pplicant's Assessn Y(yes), N(no), N N/A		Planning Division Use Only N ¹ C
b)	Are there any	new buildings, additions, or demolitions?	<u>e</u> z	KRIOR COME	hete Pad_	outside convotor
c)	Is the footprin	nt increase less than 500 sq. ft.?		<u> </u>		<u> </u>
cl)	Are there any	new curb cuts, driveways or parking areas?		/\/		in p
c)	Are the curbs	and sidewalks in sound condition?		NY A		
f)	Do the curbs a	nd sidewalks comply with ADA?		N/A		y.c.
g)	Is there any ad	ditional parking?		N(A		
h)	Is there an inci	ease in traffic?		NIA		ho
i)	Are there any k	znown stormwater problems?		İV,		K C
j)	Does sufficient	property screening exist?		<i>N</i>	(100 - with condution
k) .	Are there adequ		<u> </u>	N'/A		(10)
۱) ۲ ۲) ۲)	he Level # Bushes on Routine	ion Use Only Exemption Gran I enclosure shall be installed these removed for install tests of the generation shall be between your and 5 pm ie Dathare Buchydt	lation in e cendu	Stratt the re	to to atten placed k days (mm	mate the noise lives.

~ Original - Planning Division ~

 \sim Copy - Inspections Division and Applicant \sim

Planning Barbara Barhydt

November 20, 2009

Kathy Alves, City Trades Division, has provided the following information regarding the generator:

- 1) The muffler silencer is being installed and it is being upgraded from Industrial Grade Silencer to Critical Grade Silencer.
- 2) The weekly testing of the current generator happens 1 time per week on Wednesday between 9 a.m. and 9:20 a.m. The new generator will be tested on the same schedule.
- 3) The Level #1 enclosure will reduce the noise to approximately 78 dba at 23 feet from the radiator.

The site plan exemption is granted with the following conditions of approval:

- 1) The Level #1 enclosure shall be installed with the generator to attenuate the noise levels.
- 2) Bushes or trees removed for installation of the generator shall be replaced.
- 3) Routine test of the generator shall be conducted on weekdays (Mon. through Friday) between 9 a.m. and 5 p.m.

From:	"Russel Chesley" <rchesley@esboulos.com></rchesley@esboulos.com>
To:	"Kathy Alves" <kra@portlandmaine.gov></kra@portlandmaine.gov>
Date:	Friday, November 20, 2009 11:04:42 AM
Subject:	RE: Public Safety Generator

Kathy,

To reduce the dba level:

Level #1 enclosure approx. 78 dba at 23 feet from the radiator: the cost would be \$ 8,800.00 increase.(-16dba) Level #2 enclosure approx. 68-72 dba at 23 feet from the radiator: the cost would be \$27,800. Increase. (-20dba)

This unit can be converted to these enclosures.

Russ

-----Original Message-----From: Kathy Alves [mailto:KRA@portlandmaine.gov] Sent: Friday, November 20, 2009 10:40 AM To: rchesley@esboulos.com Subject: Fw: Public Safety Generator

I think we're making headway. If you can get that info to her regarding the enclosure that would be great. I'd like to get the permit before they break for T-Giving.

SURGAN BURGAN BU

General Building Permit Application

 $\frac{5}{2}$ If you or the property owner owes real estate or personal property taxes or user charges on any property within the Gigs payment wavelegements must be made before permits of any kind are accepted.

	- / 2	
Location/Address of Construction:	Safety Building, 109	Middle Street
Total Square Footage of Proposed Structure/A	area / / Square Footage of Lot	Number of Stories
Tax Assessor's Chart, Block & Lot	Applicant * <u>must</u> be owner, Lessee or Buy	er [*] Telephone:
A Chart# Block# Lot# A A A A	Name City of Portland	. 874-8654
	Address Police Department	
	City, State & Zip 109 Middle Str	uit
Lessee/DBA (If Applicable)	Owner (if different from Applicant)	Cost Of
	Name	Work: \$ <u>47,00.</u>
	Address	C of O Fee: \$
	City, State & Zip	Total Fee: \$ 1,000 .00
		$101 \text{ if if ee. } + 0000 \cdot 000$
Current legal use (i.e. single family)	SIA RD	1.11.
If vacant, what was the previous use?	himber of Residenti	al Units
Proposed Specific use:	Menington - ntradbul	Init
Proposed Specific use:	If yes, please name	
Project description: Anetall Stand michanical room on a	n exterior toncrete pa	d.
Contractor's name: 25 Boulis	1 Company	
Address: 45 Bradley Bri	ive to	
City, State & Zip_ Wortburk, M		elephone: <u>207-444-3706</u>
Who should we contact when the permit is ready	Russell Cherley, F.M. Te	elephone: <u>207-464-3706</u>
Mailing address: 45 Bradley		××()

Please submit all of the information outlined on the applicable Checklist. Failure to do so will result in the automatic denial of your permit.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information or to download copies of this form and other applications visit the Inspections Division on-line at <u>www.portlandmaine.gov</u>, or stop by the Inspections Division office, room 315 City Hall or call 874-8703.

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

		i	
Signature:	Musil hely	Date: 11/10/09	
	This is not a permit; you may no	t commence ANY work until the permit is issue	

From:	Kathy Alves
To:	Barbara Barhydt
Date:	Wednesday, November 18, 2009 3:27:54 PM
Subject:	Re: Public Safety Generator test

The muffler silencer is being installed, as stated it is being upgraded from and "Industrial Grade Silencer" to a "Critical Grade Silencer".

Do you have the data sheet provided by Power Products? If not i'll be at City Hall tomorrow around 10:30, will you be around?

Kathy Alves Director of Operations, Trades 389 Congress St Portland Me, 04101 Office- 207-874-8893 Fax- 207-874-8473 kra@portlandmaine.gov

>>> Barbara Barhydt 11/18/2009 1:03:46 PM >>> Hi Kathy:

We talked about this at our development review meeting. The noise levels for this are extremely high compared to other facilities. David Margolis-Pineo noted that there are specifications for a muffler on one of the sheets, but it is unclear if a muffler is proposed. The most that can be done to minimize noise and provide screening is important.

Thanks.

Barbara

>>> Kathy Alves Wednesday, November 18, 2009 12:35 PM >>> This currently happens 1 time per week on Wednesdays between 9:00am and 9:20am. The new generator will be tested monthly on Wednesdays between 9:00am and 9:20 am. I have a call into both the Manufacturer and the contractor to ask about the availability of an enclosure that may help with the noise reduction. If you have further questions please contact me @ 233-8523. Thanks

Kathy Alves Director of Operations, Trades 389 Congress St Portland Me, 04101 Office- 207-874-8893 Fax- 207-874-8473 kra@portlandmaine.gov

From:	Kathy Alves
То:	David Margolis-Pineo, Marge Schmuckal, Barbara Barhydt
Date:	Friday, November 20, 2009 5:49:44 AM
Subject:	Public Safety Generator

Per our conversation on 11/19/09 the City's Trades Division will install additional sound protection around the proposed generator in such a way that is adequate with the planning boards long term goal of Franklin Arterial. Russ, were you able to obtain any further info on the other enclosure? Please forward any of the info to all included on this e-mail. Thanks

CC: rchesley@esboulos.com

From:Kathy AlvesTo:Barbara BarhydtDate:Friday, November 20, 2009 10:07:48 AMSubject:Re: Public Safety Generator

Barbara I don't have time to send this out for design and calculations at this time. I'll work with you once the equipment is in place and we know where we need to be. In the mean time we're trying to get the info on the closure silencer along with another up grade to the muffler. Can you give me an idea of when this permit maybe issued. Lisa Perrota is pressuring me to get going on this as the funding goes away in 40 days. (150,000. 00)

-----Original Message-----From: Barbara Barhydt To: David Margolis-Pineo <DMP@portlandmaine.gov> Kathy Alves <KRA@portlandmaine.gov> Marge Schmuckal <MES@portlandmaine.gov> CC: rchesley@esboulos.com Creation Date: 11/20 9:57 am Subject: Re: Public Safety Generator

Hi:

I am particularly interested in the estimated reduction in decibels from the generator. Thank you.

Barbara

>>> Kathy Alves Friday, November 20, 2009 5:49 AM >>> Per our conversation on 11/19/09 the City's Trades Division will install additional sound protection around the proposed generator in such a way that is adequate with the planning boards long term goal of Franklin Arterial. Russ, were you able to obtain any further info on the other enclosure? Please forward any of the info to all included on this e-mail. Thanks

From:	Kathy Alves
To:	Barbara Barhydt
Date:	Wednesday, November 18, 2009 12:35:36 PM
Subject:	Re: Public Safety Generator test

This currently happens 1 time per week on Wednesdays between 9:00am and 9:20am. The new generator will be tested monthly on Wednesdays between 9:00am and 9:20 am. I have a call into both the Manufacturer and the contractor to ask about the availability of an enclosure that may help with the noise reduction. If you have further questions please contact me @ 233-8523. Thanks

Kathy Alves Director of Operations, Trades 389 Congress St Portland Me, 04101 Office- 207-874-8893 Fax- 207-874-8473 kra@portlandmaine.gov

CC:

Marge Schmuckal

lity of Portland, Ma	ine - Building or U	se Permit Applicati	on	Permit No:	Issue Date:		CBL:	
89 Congress Street, 04	101 Tel: (207) 874-87	703, Fax: (207) 874-87	716	09-1290			028 NO	01001
ocation of Construction:	Owner Name:		0	wner Address:			Phone:	
09 Middle St	City Of Por	tland	3	89 Congress St				
usiness Name:	Contractor Na	ıme:	Co	ntractor Address:			Phone	
'ortland Police Departmer	t ES Boulos	Company	4:	5 Bradley Drive	Westbrook		20746437	706
essee/Buyer's Name	Phone:			Permit Type: Alterations - Commercial			Zone:	
	Proposed Use:		Pe	rmit Fee:	Cost of Work	: CE	O District:	7
olice Department	Police Depa	tment / Install standby		\$1,000.00	\$98,000	0.00	I	
	emergency g	generator.	FI	FIRE DEPT: Approved INSPECTION		DN:	Туре:	
oposed Project Description:			-1					
nstall standby ernergency g	generator.						gnature:	
				PEDESTRIAN ACTIVITIES DISTRICT (P.A.D. Action: Approved Approved W/Condi			Denied	
			Sig	nature:		Date	:	
rmit Taken By:	Date Applied For:		- <u> </u>	Zoning A	oproval			
g	11/13/2009		_					
This permit application	does not preclude the	Special Zone or Reviews		Zoning Appeal		Historic Preservation		
Applicant(s) from meeti Federal Rules.		Shoreland		Variance			lot in District	or Landmar
Building permits do not septic or electrical work		U Wetland	Wetland		DUS	🗌 Does Not Require Rev		irc Review
Building permits are voi within six (6) months of	d if work is not started	Flood Zone		Conditional Use		🗌 Requires Review		
False information may invalidate a building permit and stop all work				Interpretatio	on		pproved	
		Site Plan		Approved			proved w/Co	nditions
		Maj 🗍 Minor 🗌 MM [Denied			enied)
		Date:		Date:		Date: ~		$\overline{}$
								/

CERTIFICATION

nereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this risdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative all have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to ich permit.

IGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
ESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE

C TANK

General Building Permit Application

 \mathbb{Y} If you or the property owner owes real estate or personal property taxes or user charges on any property with b the City, payment accepted, must be made before permits of any kind are accepted.

Location/Address of Construction:	Safety Building, 1097	Middle Groot
Total Square Footage of Proposed Structure / 96 SG FT COMPLE PC	Area Square Footage of Lot	Number of Stories
Tax Assessor's Chart, Block & Lot	Applicant * <u>must be owner</u> , Lessee or Buye	r [*] Telephone:
$\begin{array}{c ccc} Chart # & Block # & Lot # \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & &$	Name City of Portland Address Police Department	874-8654
FOENED	City, State & Zip 109 Middle She	ct
Lessee/DEA(hrapplothe)	Owner (if different from Applicant)	Cost Of
um 13 2009	Name	Work: $\frac{1}{2}$
	Address	∕C of O Fee: \$
Dept. of Bullding Inspections City of Portland Maine	City, State & Zip	Total Fee: \$ 1,000.00
Current legal use (i.e. single family)	Child RD Number of Residential	Units
If vacant what was the previous use?		
Proposed Specific use:	Aleneration - Atradbyll	mil
		A is id
Project description: Anstall Stand michanical room on a	n exterior concrete pre	d.
Contractor's name:	- Company	· · · ·
ddress: 45 Bradley Are	ive to	
ity, State & Zip Wextbrook, W	Le 04092 Tele	
Tho should we contact when the permit is ready:		
Tailing address: <u>45 Bradley h</u>	Orive	XXCa

Please submit all of the information outlined on the applicable Checklist. Failure to do so will result in the automatic denial of your permit.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information or to download copies of this form and other applications visit the Inspections Division on-line at <u>www.portlandmaine.gov</u>, or stop by the Inspections Division office, room 315 City Hall or call 874-8703.

I hereby certify that J am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

Signature:	Nuesillhelig	Date: 11/10/09	
		t commence ANY work until the permit is issue	J
Revised 07-11-08	·		

City of Portland, Maine Code of Ordinances Sec 14-221 Land Use Chapter 14 Rev. 2-21-01

(i) *Historic resources:* The exterior design of proposed or renovated structures located within historic districts shall be subject to the provisions of article IX of this chapter. The exterior design of proposed or renovated structures located adjacent to historic districts or historic resources shall be subject to section 14-526(a)(18). (Ord. No. 241-91, 3-11-91)

Sec. 14-221.1. External effects.

Every use in the B-3, B-3b and B-3c zones shall be subject to the following requirements:

- (a) Enclosed structure: The use shall be operated within a completely enclosed structure, except for those uses customarily operated in the open air.
- (b) *Noise:* The level of sound, measured by a sound level meter with frequency weighting network (manufactured according to standards prescribed by the American National Standards Institute, Inc.), inherently and recurrently within the B-3 and B-3b zones shall not exceed fifty-five (55) decibels on the A scale between the hours of 9:00 p.m. and 7:00 a.m., and sixty (60) decibels on the A scale between 7:00 a.m. and 9:00 p.m. at the boundaries of any lot nor within publicly accessible pedestrian open space, except for sound from construction activities, sound from traffic on public streets, sound from temporary activities such as festivals, and sound created as a result of, or relating to, an emergency, including sound from emergency warning signal devices. In measuring sound levels under this section, sounds with a continuous duration of less than sixty (60) seconds shall be measured by the maximum reading on a sound level meter set to the A weighted scale and the fast meter response (L maxfast). Sounds with a continuous duration of sixty (60) seconds or more shall be measured on the basis of the energy average sound level over a period of sixty (60) seconds (LEQ_1) .
- (C) Vibration: Vibration inherently and recurrently generated shall be imperceptible without instruments at lot boundaries.

If you have any questions reference the above statements or need further technical information on this project please contact me at Power Products.

Sincerely,

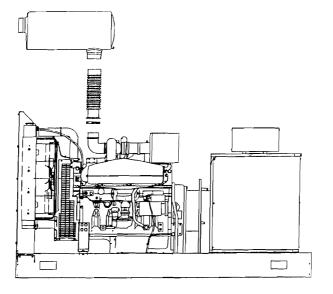
Dave Coughlan Power Products Inc. Generator Sales 207-797-5188 (office) 207-797-5953 (fax) 207-233-7451 (cell phone)

Industrial Generator Set Accessories

KOHLER.POWER SYSTEMS

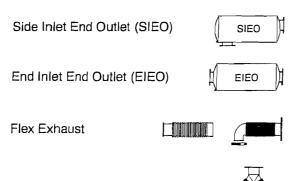
Silencers and Exhaust Systems



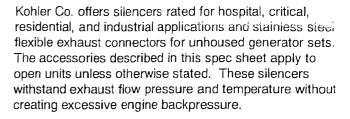


Legend

Use the information below for identifying the exhaust system components shown in the illustrations on the following pages.



Flex Exhaust (wye)



Noise Reduction dB(A)	Amblent Noise Level	Sllencing Requirement
32-42	Low	Very High
25-35	Low	High
18-25	Low-Medium	Medium
12-18	Medium-High	Low-Medium
	Reduction dB(A) 32-42 25-35 18-25	Reduction dB(A)Noise Level32-42Low25-35Low18-25Low-Medium

Silencer and Exhaust System Selection

Select the silencer based on the required degree of exhaust noise reduction using the four silencer ratings in the table above. In addition, select the silencer inlet/ outlet type using the legend descriptions.

Note: Some generator set models may not offer all exhaust system combinations.

Use the illustrations on the following pages to select the available silencer type and exhaust system configuration best suited for your application. Refer to your authorized distributor/dealer for silencer and component kit numbers and for silencer dimensions.

Backpressure Considerations

Consult the generator set spec sheet to determine the maximum allowable exhaust backpressure. Add the backpressure produced by the silencer and exhaust piping together to determine the total exhaust system backpressure. Contact an authorized distributor/dealer to calculate backpressure in the exhaust piping. Do not exceed the maximum allowable backpressure.

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Model	Page	Model	Page	Model	Page
Gas		Diesel		Diesel, continued	
25RZGB	3	20ROZJB	5	400REOZDC	7
30RZG	3	20REOZJB	5	400REOZDD	7
30RZGB	3	20REOZJC	5	400REOZVC	8
35RZG	3	30REOZJB	5	450REOZDB	7
40REZG	3	30REOZJC	5	450REOZDD	7
45REZG	3	40REOZJB	5	450REOZVB	8
45RZG	3	40REOZJC	5	500REOZVB	3
50REZG	3	50REOZJB	5	550REOZV	8
50RZGB	3	50REOZJC	5	600REOZM	12
60REZG	3	60REOZJB	5	600REOZMB	12
60RZG	3	60REOZJC	5	600REOZV	8
80REZG	3	80REOZJB	5	650REOZDB	9
80RZG	3	80REOZJC	5	650REOZDC	10
100REZG	3	BOREOZJD	5	700REOZDD	10
100RZG	3	100REOZJB	6	750REOZDB	9
125REZG	3	100REOZJC	5	750REOZDC	10
125RZG	3	100REOZJD	5	750REOZM	12
150REZG	3	125REOZJB	6	750REOZMB	12
150RZGB	3	125REOZJD	6	800REOZDB	9
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180RZX	4	150REOZJB	6	800REOZM	12
200REZX	4	150REOZJC	6	800REOZMB	12
200RZX	4	150REOZJD	6	900REOZDB	9
400RZW	4	180REOZJB	6	900REOZDC	10
600RZW	4	180REOZJC	6	900REOZDD	10
800RZW	4	180REOZJD	6	900REOZM	12
		200REOZJB	6	900REOZMB	12
		200REOZJC	6	1000REOZDB	9
		200REOZJD	6	1000REOZDC	10
		230REOZDB	7	1000REOZDD	10
	· .	230REOZDD	7	1000REOZM	12
		230REOZJB	6	1000REOZMB	12
		230REOZJD	6	1250REOZDC	11
		230REOZJE	6	1250REOZM	12
	E E	250REOZDB	7	1250REOZMB	12
		250REOZDD	7	1500REOZDB	9
		250REOZJC	6	1500REOZDC	11
	Γ	250REOZJD	6	1600REOZM	12
		250DEOZIE	E	1000DE07MD	10

G6-39	7/09z	Page 2	
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3

1600REOZMB

1750REOZDC

1750REOZMB

1820REOZM

2000REOZDB

2000REOZDC

2000REOZM

2000REOZMB

2250REOZDC

2500REOZDB

2000REDZDE

SOUTHEOND

3250REOZD

12

11

12

12

9

11

12

12

11

11

11

11

11

250REOZJE

275REOZDB

275REOZDD

275REOZJD

275REOZJE

275REOZV

300REOZDB

300REOZDD

300REOZV

350REOZDC

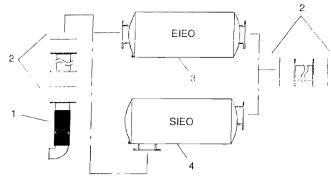
350REOZDD

350REOZVC

Diesel

L.n		1	Cize, in/Dui
1	Flex Exhaust, 6" or 6" *	1	_
5	Weld Flange, 6" or 8" †	2	
3	Nospital Glience, EIEO	1	[;"
4	Hospital Silencer SIEO	1	8"
3	Critical Silencer EIEO	1	6"
4	Critical Silencer SIEO	1	6"
3	Residential Silencer EIEO	1	6"
4	Residential Silencer SIEO	1	6"
3	Industrial Silencer EIEO	1	6'
4	Industrial Silencer SIEO	1	6"
300R	EOZDB	• · · ·	
ltem	Exhaust System Kits	Qty. in Kit	Size, In/Out
1	Flex Exhaust, 8" *	1	
2	Weld Flange, 8" †	2	
3	Hospital Silencer EIEO	1	8"
4	Hospital Silencer SIEO	1	8"
3	Critical Silencer EIEO	1	8"
4	Critical Silencer SIEO	1	8"
3	Residential Silencer EIEO	1	8"
	Residential Silencer SIEO	1	8"
4	Industrial Silencer EIEO	1	8"
4 3			

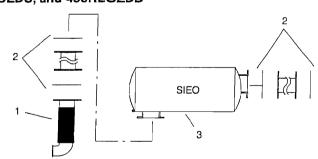
230-300REOZDB

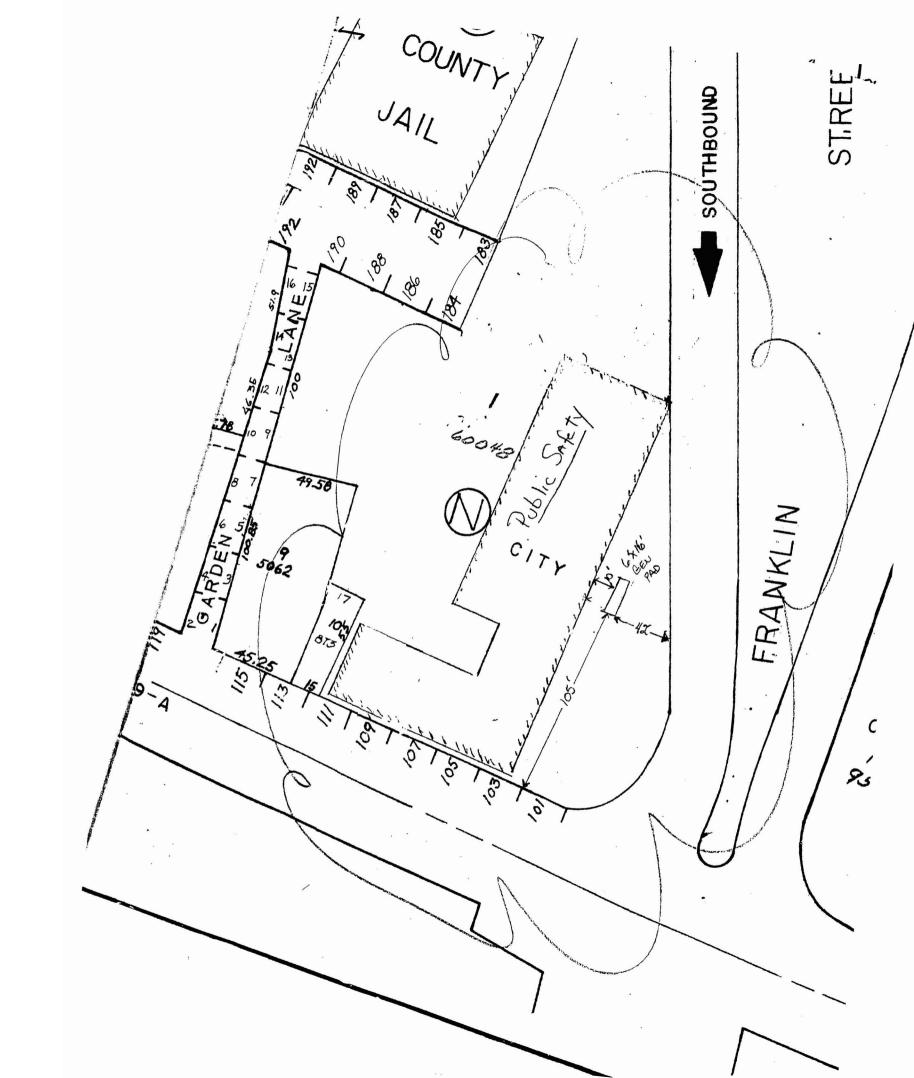


230-450REOZDD, 350/400REOZDC, and 450REOZDB

ltem	Exhaust System Kits	Qty. in Kit	Size, In/Out	
1	Flex Exhaust, 8" *	1	—	
2	Weld Flange, 8" †	2		
3	Hospital Silencer SIEO	1	8"	
3	Critical Silencer SIEO	1	8"	
 Kit includes exhaust clamp and kits for 400REOZDC/450REOZDB include an insulation blanket. 				

† One kit includes (2) exhaust flanges, (2) gaskets, and the mounting hardware. See Weld Flange Kits for additional data.







Mr. Russ Chesley E.C. Doulos 45 Bradley Drive Westbrook, Maine 04092 Power Products 81 Bay State Road Wakefield, MA 01880 Tel 781-246-1811 Fax 781-246-5321 Branch 432 Warren Avenue Fortland, ME 04103 Tel 207-797-5950 Fax 207-797-5953

Subject: Portland Public Safety Emergency Generator Set

Dear Russ,

Please find below responses to Swift Current Engineer Mr. Tim Matthews comments on submittal on the Portland Public Safety Emergency Generator set.

Comments:

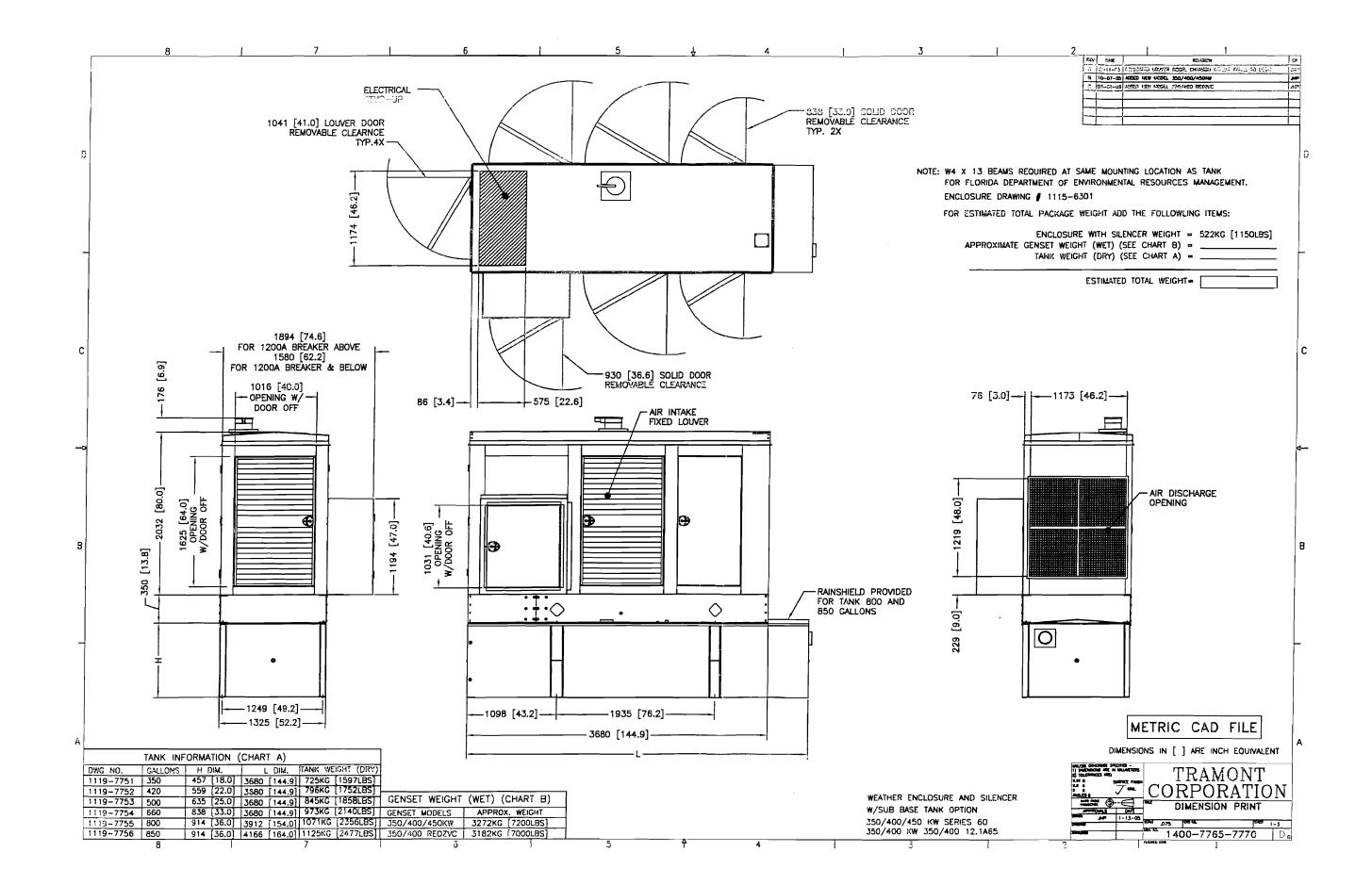
- 1. Fuel Tank approved as submitted.
- 2. Muffler Sound Data Specification called for Industrial Grade Silencer, we are providing a Critical Grade Silencer. -See Attached Specification on Kohler Silencer Systems
- 3. Generator Weather Housing Specification calls for 14 gauge steel Steel construction – See attached specification on Generator Housing.
- 4. Concrete Pad Requirements We will provide dimensions and weights of enclosure system and general contractor will be responsible for determining the pad requirements for supporting those items.
- 5. Communications on existing Onan Automatic Transfer Switch The only communications requirement between the Onan Transfer Switch and the Kohler Generator Set is the start contacts; these contacts are either normally open or normally closed. Both Onan and Kohler use a two-wire start signal system so this should not be a problem.

The other item you needed was sound data on the weather enclosure being provided on generator set system. The factory says that this unit has a dba rating of 97 dba at 3 feet with 94 dba at 23 feet and you when you double the distance (46 feet) from enclosure you will get a 6 dba (88 dba) reduction. All of these dba rating are based on a 23 foot clear area on all four sides and if don't have that clear area your dba sound levels will change depending on background material.



Electrical Power Systems

Equipment Sales and Rentals Planned Service Maintenance Contracts Load Bank Testing Emergency Service 24 Hours/Day





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