



MECHANICAL PERMIT APPLICATION

City of Portland, Oregon - Bureau of Development Services
1900 SW 4th Avenue, Portland, Oregon 97201 • 503-823-7363 • TTY 503-823-6868 • www.portlandoregon.gov/bds

Type of work

New construction Addition/alteration/replacement
 Demolition Other:

Category of construction

1 & 2 family dwelling Commercial/industrial Accessory building
 Multifamily Master builder Other:

Job site information and location

Job no.: 3213-S Job address: 8130 SE Mill St
 City/State/ZIP: Portland OR 97215
 Suite/bldg./apt. no.: Project name: Connelly Place
 Cross street/directions to job site:
 Subdivision: Lot no. Tax map/parcel no.

Description of work (example: upstairs bath fan/dryer exhaust)

Install new Zeton ductless split and new gas line/plumb along w/ 20ft of gas pipe

Provide RS permit no.

Property owner **Tenant**

Name: E-mail:
 Address:
 City/State/ZIP:
 Phone: FAX:
 Owner installation: This installation is being made on property that I own, which is not intended for sale, lease, rent, or exchange.
 Owner signature: Date:

Contractor **Subcontractor**

Business name: First Call E-mail: mkinne@firstcallheat.com
 Address: 1650 NE Lombard
 City/State/ZIP: Portland OR 97211
 Phone: 503-969-3895 FAX:
 Lic. no. 102030 CCB lic. no.
 Authorized signature: Matthew Kinne
 Print name: Matthew Kinne Date: 5-8-13

Applicant **Contact Person**

Business name: First Call Heating and Cooling
 Contact name: Matthew Kinne
 Address: 1650 NE Lombard
 City/State/ZIP: Portland OR 97211
 Phone: 503-969-3895 FAX:
 E-mail: mkinne@firstcallheat.com

RS Permit/No Fees Due

Residential Combo permit subcontractor submittals only can be faxed to 503-823-7693 or e-mailed to BDSCombInspSec@portlandoregon.gov.

This permit application expires if a permit is not obtained within 180 days after it has been accepted as complete.

Commercial Fee Schedule - Use Checklist

Mechanical permit fees* are based on the value of the work performed. Indicate the value (rounded to the nearest dollar of all mechanical materials, equipment, labor, overhead and profit.

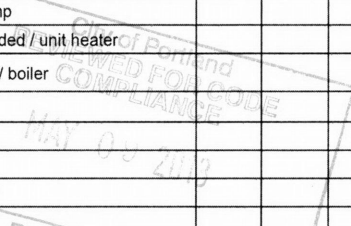
Value: \$ 10,254.00

Residential Equipment / Systems Fees

For special information use checklist

Description	Qty.	Fee	Total
Heating / cooling			
Air conditioner (site plan required)		\$26	
Furnace / burner including duct work / vent / liner		\$55	
Heat pump (site plan required)		\$51	
Air handling unit		\$26	
Hydronic hot water system		\$32	
Residential boiler (radiator or hydronic) includes piping		\$32	
Unit heaters (fuel type, not electric) in-wall, in-duct, suspended, etc.		\$26	
Vent for appliance other than furnace		\$22	
Alteration of existing HVAC system		\$32	
Other fuel appliances			
Decorative gas fireplace		\$26	
Flue vent for water heater or gas fireplace		\$22	
Wood / pellet stove		\$57	
Gas or wood fireplace / insert		\$57	
Chimney / liner / flue / vent		\$22	
Other:		\$32	
Environmental exhaust and ventilation			
Range hood / other kitchen equipment		\$14	
Clothes dryer exhaust		\$14	
Single-duct exhaust (bathrooms, toilet compartments, utility rooms)		\$14	
Attic / crawl space fans		\$14	
Other:		\$32	
Gas fuel piping			
\$14 for the first four, \$2.57 for each additional. Please indicate number of fuel gas piping outlets below:			
Furnace, etc.			
Gas heat pump			
Wall / suspended / unit heater			
Water heater / boiler			
Fireplace			
Range			
Barbecue			
Clothes dryer			
Other:			
Other appliances			
Including oil tanks, gas and diesel generators, gas and electric kilns, gas appliances / equipment not included above		\$32	
Mechanical permit fees			
	Subtotal		
	Minimum permit fee (\$95)		
	Commercial plan review (60% of permit fee)		
	State surcharge (12% of permit fee)		
	TOTAL PERMIT FEE		

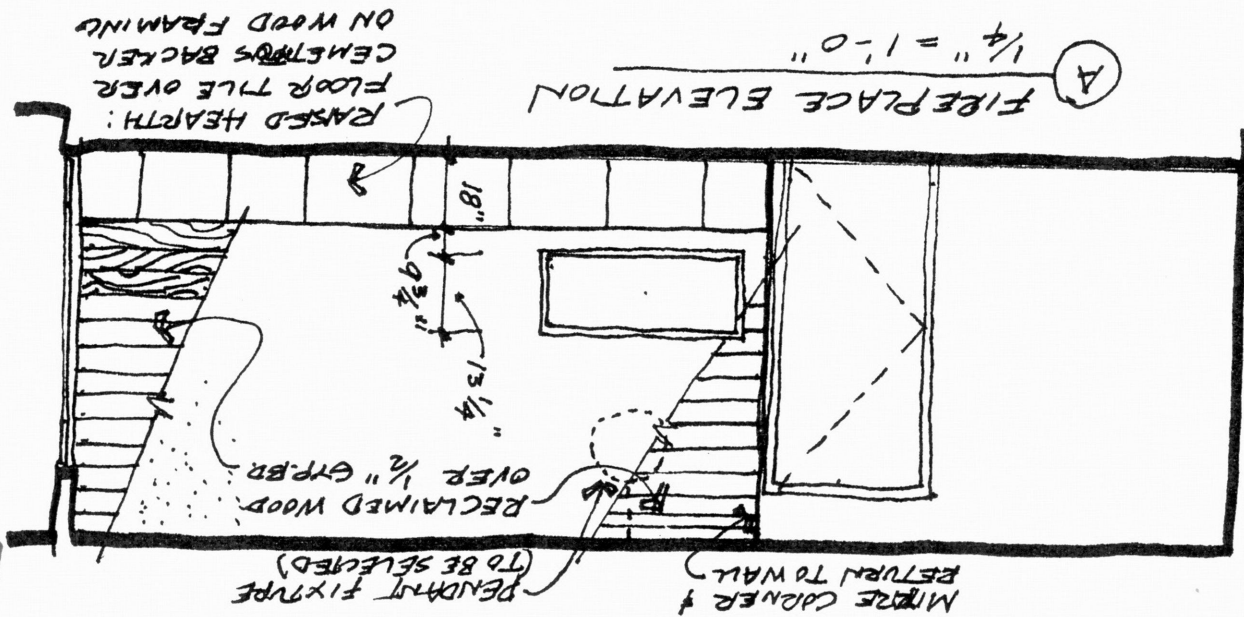
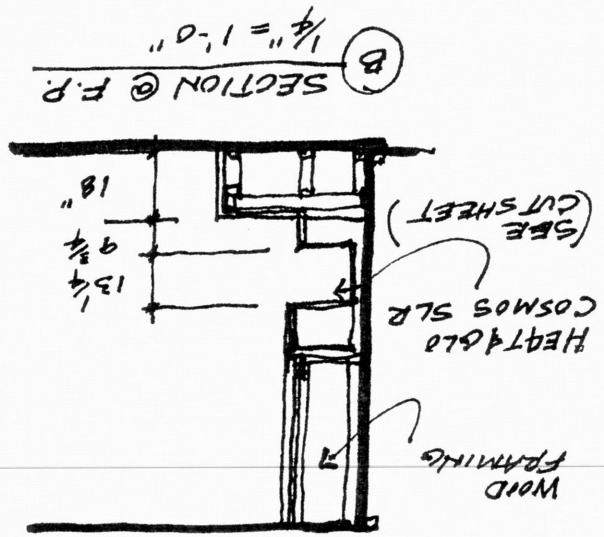
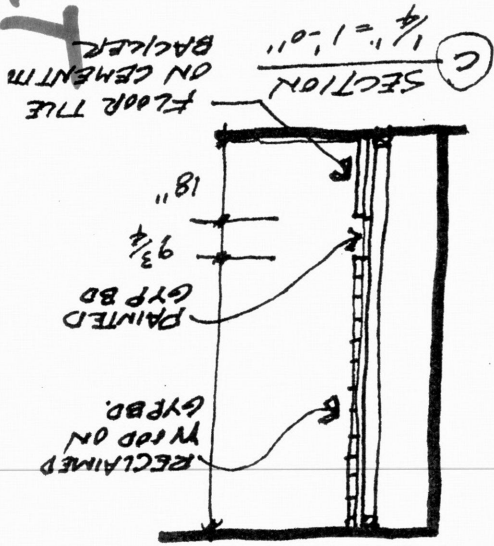
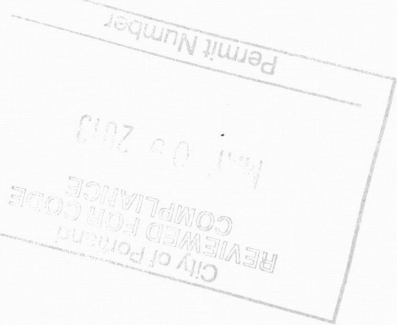
12581051-31

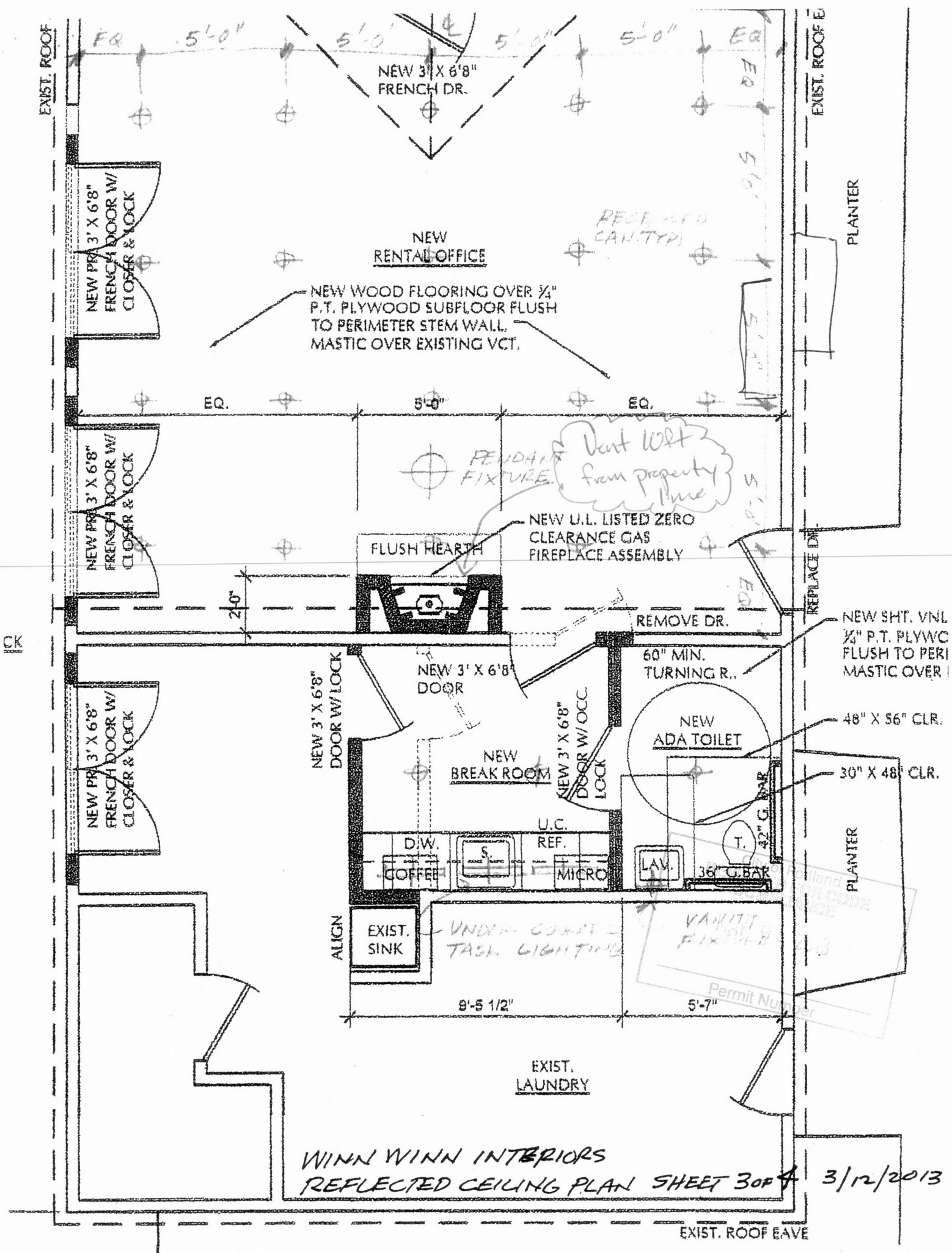


3/12/2013

W INN W INN INTERIORS / SHEET 2 OF 4

13-150785 MT





NEW 3' X 6'8"
FRENCH DR.

NEW
RENTAL OFFICE

NEW WOOD FLOORING OVER 3/4"
P.T. PLYWOOD SUBFLOOR FLUSH
TO PERIMETER STEM WALL.
MASTIC OVER EXISTING VCT.

NEW PR 3' X 6'8"
FRENCH DOOR W/
CLOSER & LOCK

NEW PR 3' X 6'8"
FRENCH DOOR W/
CLOSER & LOCK

NEW PR 3' X 6'8"
FRENCH DOOR W/
CLOSER & LOCK

FLUSH HEARTH

NEW U.L. LISTED ZERO
CLEARANCE GAS
FIREPLACE ASSEMBLY

REMOVE DR.

NEW 3' X 6'8"
DOOR

NEW
BREAK ROOM

60" MIN.
TURNING R..

NEW
ADA TOILET

D.W.

U.C.
REF.

COFFEE

MICRO

LAV.

36" C.BAK

EXIST.
SINK

UNDER CABINET
TASK LIGHTING

VANITY
FIXTURE

EXIST.
LAUNDRY

WINN WINN INTERIORS
REFLECTED CEILING PLAN SHEET 30 of 4 3/12/2013

EXIST. ROOF EAVE

EXIST. ROOF E

PLANTER

PLANTER

NEW SHT. VNL
3/8" P.T. PLYWC
FLUSH TO PERI
MASTIC OVER I

48" X 56" CLR.

30" X 48" CLR.

Permit Number

RECEIVED
CANTYPI

Vent left
from property
line

PENDANT
FIXTURE

REPLACE DR.

EXIST. ROOF

CK



HVAC Advanced Products Division



Split Zoning A/C and Heat Pumps

SUBMITTAL DATA: MSZ-GE24NA & MUZ-GE24NA 24,000 BTU/H WALL-MOUNTED HEAT-PUMP SYSTEMS

Job Name: _____ Location: _____ Date: _____
 Purchaser: _____ Engineer: _____
 Submitted to: _____ For Reference Approval Construction

System Designation: _____

Schedule No.: _____

GENERAL FEATURES

- Wall-mounted indoor unit
- Nano Platinum and Anti-allergy Enzyme filters are included
- Quiet operation
- Choice of fan speeds: Low, Medium, High, and Powerful;
- Wireless handheld remote controller is included; PAR-21MAA wired remote controller can be installed as an option
- Indoor unit powered from outdoor unit using A-Control
- Auto restart following a power outage
- Limited warranty: five years on parts and defects and seven years on the compressor

OPTIONAL ACCESSORIES

- Outdoor Unit**
- Base Heater (MAC-642BH-U)
 - Three-pole Disconnect Switch (TAZ-MS303)
 - Air Outlet Guide (MAC-856SG)
 - Mounting Base (DSD-400N)
 - Mounting Pad (ULTRILITE1)
- Indoor Unit**
- Condensate Pump (SI3100-230; 230V)
 - Replacement Anti-allergy Enzyme Filters (MAC-2310FT-E; 2/set)
- Controller Options**
- Wall-mounted Wired Controller (PAR-21MAA; req. MAC-3971F)
 - MA Contact Terminal Interface (MAC-3971F)
 - M-NET Control Adapter (MAC-3991F)
 - Remote Temperature Sensor (M21-JKO-307)
 - Lockdown Bracket for Handheld Controller (RCMKP1CB)

Cooling*

Rated Capacity	22,500 Btu/h
Minimum to Maximum Capacity Range	8,200 - 31,400 Btu/h
SEER	19.0 Btu/h/W
EER	12.5 Btu/h/W
Total Rated Input	1,800 W

Heating at 47°F*

Rated Capacity	27,600 Btu/h
Minimum to Maximum Capacity Range	7,500 - 36,900 Btu/h
HSPF	10.0 Btu/h/W
COP	3.46
Total Rated Input	2,340 W

Heating at 17°F*

Rated Capacity	16,000 Btu/h
Rated Total Input	3,290 W
COP	2.64
Maximum Capacity	24,600 Btu/h
Maximum Total Input	3,290 W

* Rating Conditions (Cooling) - Indoor: 80°F (27°C) DB, 67°F (19°C) WB; Outdoor: 95°F (35°C) DB, 75°F (24°C) WB.
 (Heating at 47°F) - Indoor: 70°F (21°C) DB, 60°F (16°C) WB; Outdoor: 47°F (8°C) DB, 43°F (6°C) WB.
 (Heating at 17°F) - Indoor: 70°F (21°C) DB, 60°F (16°C) WB; Outdoor: 17°F (-8°C) DB, 15°F (-9°C) WB.

Heating at 5° F (Maximum Capacity) 21,160 Btu/h

Electrical Requirements

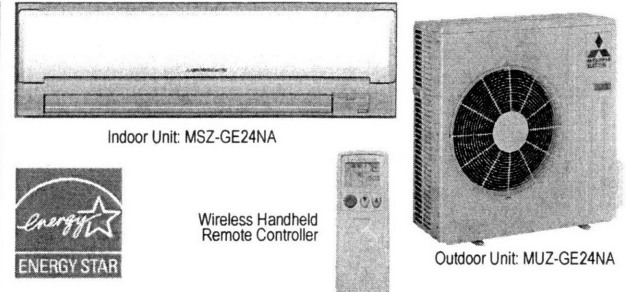
Power Supply 208 / 230V, 1-Phase, 60 Hz
 Breaker Size 20 A

Voltage

Indoor - Outdoor S1-S2 AC 208 / 230V
 Indoor - Outdoor S2-S3 DC 12-24V
 Indoor - Remote Controller Wireless

OPERATING CONDITIONS

		Indoor Intake Air Temp.	Outdoor Intake Air Temp.
Cooling	Maximum	90°F (32°C) DB, 73°F (23°C) WB	115°F (46°C) DB
	Minimum	67°F (19°C) DB, 57°F (14°C) WB	14°F (-10°C) DB
Heating	Maximum	80°F (27°C) DB, 67°F (19°C) WB	75°F (24°C) DB, 65°F (18°C) WB
	Minimum	70°F (21°C) DB, 60°F (16°C) WB	-4°F (-20°C) DB, -5°F (-21°C) WB



Indoor Unit

MCA	1 A
Fan Motor	0.76 F.L.A.
Airflow (Lo - Med - Hi - Powerful)	
Cooling	388 - 469 - 628 - 738 Dry CFM
Heating	347 - 420 - 562 - 661 Wet CFM
Heating	388 - 469 - 628 - 738 Dry CFM

Sound Pressure Level (Lo - Med - Hi - Powerful)

Cooling	34 - 41 - 49 - 53 dB(A)
Heating	32 - 41 - 49 - 52 dB(A)

DIMENSIONS	UNIT INCHES / MM
W	43-5/16 / 1,116
D	9-3/8 / 238
H	12-13/16 / 325

Weight 37 lbs. / 17 kg
 Moisture Removal 2.7 pt./h
 External Finish Munsell No. 1.0Y 9.2 / 0.2
 Field Drainpipe Size O.D. 5/8" / 15.88 mm
 Remote Controller Wireless Handheld
 (Optional Wired Remote Controller PAR-21MAA; see Data Submittal Sheet)

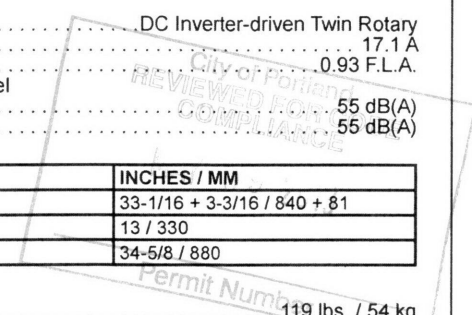
Outdoor Unit

Compressor	DC Inverter-driven Twin Rotary
MCA	17.1 A
Fan Motor	0.93 F.L.A.
Sound Pressure Level	
Cooling	55 dB(A)
Heating	55 dB(A)

DIMENSIONS	INCHES / MM
W	33-1/16 + 3-3/16 / 840 + 81
D	13 / 330
H	34-5/8 / 880

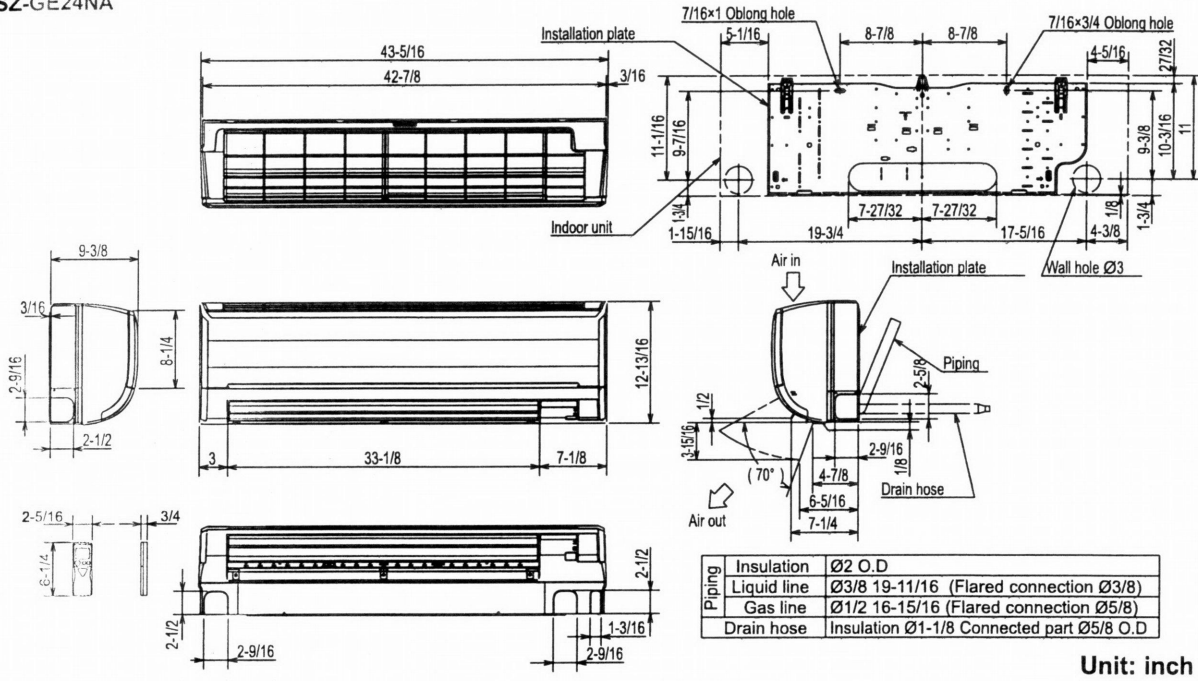
Weight 119 lbs. / 54 kg
 External Finish Munsell No. 3Y 7.8 / 1.1

Refrigerant Type R410A
 Refrigerant Pipe Size O.D.
 Gas Side 5/8" / 15.88 mm
 Liquid Side 3/8" / 6.35 mm
 Max. Refrigerant Pipe Length 100' / 30 m
 Max. Refrigerant Pipe Height Difference 50' / 15 m
 Connection Method Flared



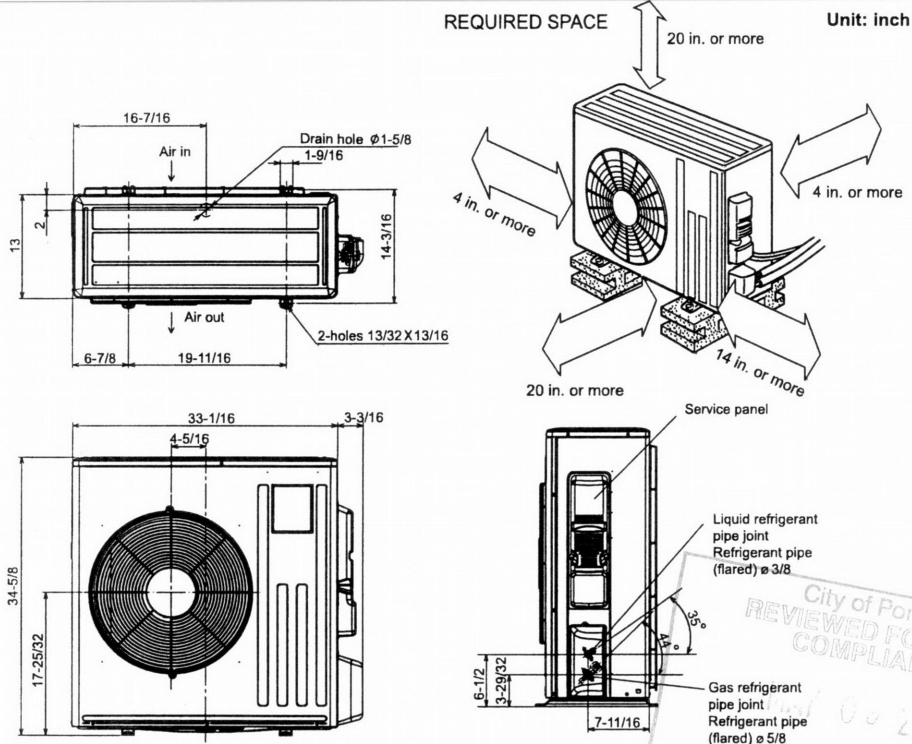
DIMENSIONS: MSZ-GE24NA & MUZ-GE24NA

MSZ-GE24NA



Unit: inch

MUZ-GE24NA



Unit: inch

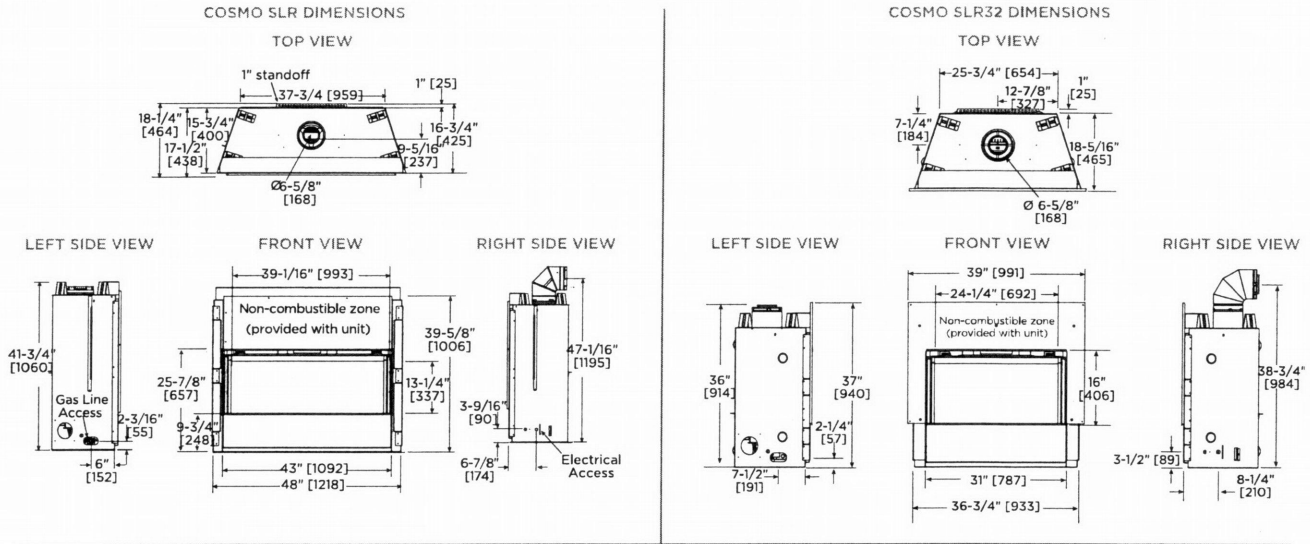
City of Portland
 REVIEWED FOR CODE
 COMPLIANCE
 06/05/2013



HVAC Advanced Products Division
 3400 Lawrenceville Suwanee Rd
 Suwanee, GA 30024
 Tele: 678-376-2900 • Fax: 800-889-9904
 Toll Free: 800-433-4822 (#3)
 www.mehvac.com
 Specifications are subject to change without notice.

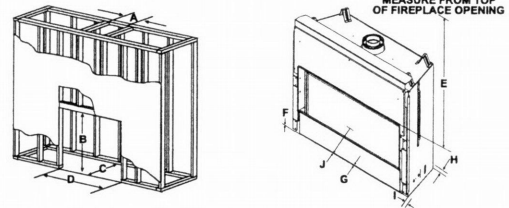
COSMO SLR SERIES SPECIFICATIONS

MODEL	FRONT WIDTH		BACK WIDTH		HEIGHT		DEPTH		GLASS SIZE	BTU/HOUR INPUT
	UNIT	FRAMING	UNIT	FRAMING	UNIT	FRAMING	UNIT	FRAMING		
SLR	48 (1219mm)	50 (1270mm)	37-3/4 (959mm)	50 (1270mm)	41-3/4 (1061mm)	42-1/4 (1073mm)	16-3/4 (426mm)	18-1/4 (465mm)	39-1/16 x 13-1/4 (993mm x 337mm)	26,000 (NG) 25,000 (LP)
SLR32	36-3/4 (933mm)	37-3/4 (959mm)	25-3/4 (654mm)	37-3/4 (965mm)	36 (914mm)	36-1/2 (927mm)	18-5/16 (465mm)	18-1/4 (465mm)	27-1/4 x 11-1/2 (692mm x 292mm)	20,000 (NG) 17,500 (LP)



FRAMING DIMENSIONS (DRAWINGS SHOWN ON RIGHT)

MODEL	A	B	C	D	E	F	G	H	I	J
SLR	8-5/8 (219mm)	42-1/4 (1073mm)	18-1/4 (464mm)	50 (1270mm)	31 (787mm)	0 (0mm)	0 (0mm)	1 (25mm)	1 (25mm)	36 (914mm)
SLR32	8-5/8 (219mm)	36-1/2 (927mm)	18-1/4 (464mm)	37-3/4 (959mm)	31 (787mm)	0 (0mm)	0 (0mm)	1 (25mm)	1/2 (13mm)	36 (914mm)



Dimensions in diagrams are in inches and millimeters. Product information is not complete and is subject to change without notice. Product installation must adhere strictly to instructions shipped with product. We recommend measuring individual units at installation. Assumes the use of 1/2" sheetrock. NOTE: Combustible material should not cover the face. Make sure you do NOT cover the decorative door opening.

Refer to installation manual for detailed specifications on installing this product. Heat & Glo reserves the right to update units periodically. The flame and ember appearance may vary based on the type of fuel burned and the venting configuration used. Actual product appearance, including flame, may differ from product images.

U.S. EFFICIENCIES

Steady State - Since most homeowners use their fireplaces for an extended time while they are in the room, Steady State measures how efficiently your fireplace converts fuel to heat once it is warmed up and running in a "steady state".

AFUE - AFUE rating is more typically used with appliances, like your furnace, that continually cycle on and off to maintain a constant temperature.

RATING	COSMO SLR	COSMO SLR 32
STEADY STATE	73% (NG)	60% (NG)
AFUE	56% (NG)	57% (NG)

CANADA EFFICIENCIES

EnerGuide (CSA P.4.1-02) - EnerGuide is a rating used in Canada to measure annual fireplace efficiency.

RATING	COSMO SLR	COSMO SLR 32
ENERGUIDE (CSA P.4.1-02)	57% (NG)	57% (NG)

For complete information on this model, please contact us at:

HEAT & GLO

No one builds a better fire

A brand of Hearth & Home Technologies Inc.
7571 215th Street West, Lakeville, MN 55044
Web: heatnglo.com
Phone: (888) 427-3973 (952) 985-6000
E-mail: info@heatnglo.com

facebook.com/HeatandGlo
twitter.com/HeatandGlo
youtube.com/HeatandGlo

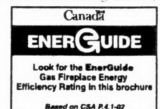
LIMITED LIFETIME WARRANTY*

The strongest in the industry. Heat & Glo provides a limited lifetime warranty on the most important aspects: firebox and heat exchanger.

*For full warranty details see heatnglo.com. Fireplace glass and other surfaces get extremely HOT and can cause severe burns if touched. Do not remove the protective safety screen from the front of the glass. Keep a safe distance away. To learn more visit www.heatnglo.com/ fireplace safety



HNG-1092U-0612



7730

1810

8014

8026

8036

8046

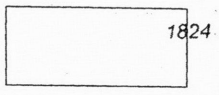
8058

8104

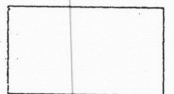


1815

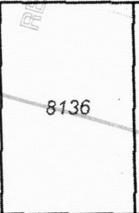
8136



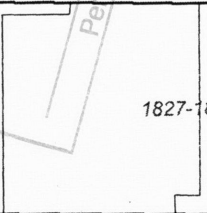
1824



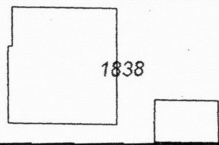
8110-8136



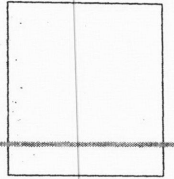
8136



1827-1829

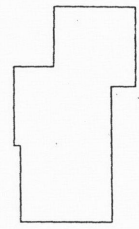


1838

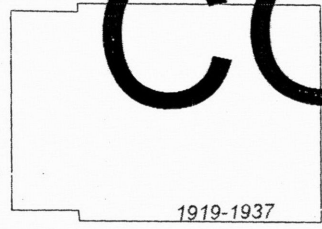


R1a

CG

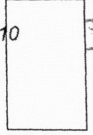


1902



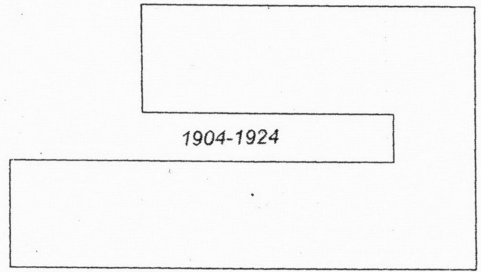
1919-1937

8110

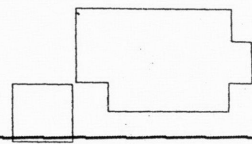
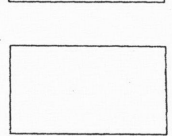
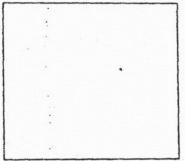
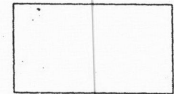
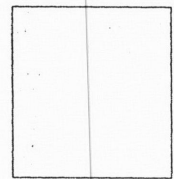


Unit location

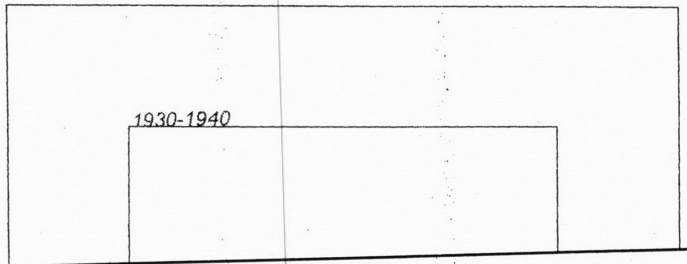
SE 90TH AVE



1904-1924



1951



1930-1940

2005

City of Portland
REVIEWED FOR CODE
COMPLIANCE
Permit Number