

3

ROTORUA CITY COUNCILBUILDING PERMIT

Owner: M.R. & R. BELL

Order:

Valuation No.: 658/210

Type of Work: **INSTALL JUNO SPACE HEATER**

Permit No.: H133247

Appn. No.: 112734

INSPECTIONS

Date:

27-7-78

Date

15.1.80

28/8/80. Header on job not installed yet. 20/9/80. Same
 Will probably wait till next season
 Juno installed

✓



BC

H133247 FIRE

CITY OF ROTORUA

BUILDING APPLICATION FORM

Received 25-7-78Application No 112734

Date _____ 197__

TO THE CITY ENGINEER

I hereby apply for permission to erect, repair, alter, extend, demolish, remove a building at No. 6OTONGA ROAD for
addressMr/Mrs M. R. & R. BELL of 6 OTONGA ROAD ROTORUA
(owner) (address)according to locality plan and detailed plans, elevations, cross sections, and specification of building deposited herewith in DUPLICATE (see reverse side).

PARTICULARS OF LAND

Val. Roll No. <u>658/210</u>	Lot No. <u>+ 36</u>	Area _____
Checked _____	D.P. No. <u>+ 27272</u>	Frontage _____
clerk <u>P. M. N.</u>	Zoning _____	Depth _____

PARTICULARS OF USE OF BUILDINGS

Proposed purpose for which every part of building is to be used or occupied (describing separately each part intended for use or occupation for a separate purpose, i.e. shop, factory, dwelling, office, carport, etc.)

INSTALLATION OF JUNK SPACE HEATER.AS PER MANUFACTURERS INSTRUCTIONS.

Area of ground floor _____	Estimated value _____
Gross floor area _____	Building work <u>+ \$ 100</u>
Area of accessory buildings _____	Plumbing & Drainage \$ _____
	Total <u>\$ 100</u>

Owner <u>M. R. Bell</u> (Signature)	Builder's name _____ (Please Print)
Address <u>6 OTONGA ROAD ROTORUA</u>	Signature _____
Phone No. <u>78817</u>	Address _____
	Phone No. _____

FOR OFFICE USE ONLY

Application checked and approved by:		Health Inspector _____		Issue of Permit Approved	
Building Inspector <u>[Signature]</u>	Date <u>26.7.78</u>	Date _____	Dangerous Goods Inspector _____	Date <u>26.7.78</u>	City Engineer <u>[Signature]</u>
Town Planning Officer _____	Date _____	Date _____	Water & Geothermal Inspector _____	Comments _____	
Plumbing & Drainage Inspector _____	Date _____	Date _____	Fire Prevention Officer _____		
Structural Engineer _____	Date _____	Date _____			

SUBJECT	Appln No.	Permit No.	Date	Value	Fee
Building		H133247		\$ <u>100.00</u>	\$ <u>1.00</u>
Plumbing & Drainage				\$ _____	\$ _____
Water Connection				\$ _____	\$ _____
Damage Deposit				\$ _____	\$ _____
Vehicle Crossing				\$ _____	\$ _____
Sewer Disconnection				\$ _____	\$ _____
Stormwater Discon.				\$ _____	\$ _____
Water Disconnection				\$ _____	\$ _____
Building Research Levy				\$ _____	\$ _____
TOTAL:				\$ <u>1.00</u>	

(see scale of fees on back)

Receipt No. 24755Date 27.7.78

FEES PAYABLE ON THE ISSUE OF ANY BUILDING PERMIT
according to the Estimated Value of Work

Estimated Value of Work	Fees	Estimated Value of Work	Fees
Not exceeding \$20	\$ 0.50	Over \$12,000 and not exceeding \$14,000	\$ 44.00
Over \$20 and not exceeding \$200	1.00	Over \$14,000 and not exceeding \$16,000	48.00
Over \$200 and not exceeding \$400	2.00	Over \$16,000 and not exceeding \$18,000	52.00
Over \$400 and not exceeding \$600	3.00	Over \$18,000 and not exceeding \$20,000	56.00
Over \$600 and not exceeding \$800	4.00	Over \$20,000 and not exceeding \$25,000	64.00
Over \$800 and not exceeding \$1,000	5.00	Over \$25,000 and not exceeding \$30,000	72.00
Over \$1,000 and not exceeding \$1,200	6.00	Over \$30,000 and not exceeding \$35,000	80.00
Over \$1,200 and not exceeding \$1,400	7.00	Over \$35,000 and not exceeding \$40,000	88.00
Over \$1,400 and not exceeding \$1,600	8.00	Over \$40,000 and not exceeding \$50,000	98.00
Over \$1,600 and not exceeding \$1,800	9.00	Over \$50,000 and not exceeding \$60,000	108.00
Over \$1,800 and not exceeding \$2,000	10.00	Over \$60,000 and not exceeding \$70,000	118.00
Over \$2,000 and not exceeding \$2,500	12.00	Over \$70,000 and not exceeding \$80,000	128.00
Over \$2,500 and not exceeding \$3,000	14.00	Over \$80,000 and not exceeding \$90,000	138.00
Over \$3,000 and not exceeding \$3,500	16.00	Over \$90,000 and not exceeding \$100,000	148.00
Over \$3,500 and not exceeding \$4,000	18.00	Over \$100,000 and not exceeding \$120,000	158.00
Over \$4,000 and not exceeding \$5,000	21.00	Over \$120,000 and not exceeding \$140,000	168.00
Over \$5,000 and not exceeding \$6,000	24.00	Over \$140,000 and not exceeding \$160,000	178.00
Over \$6,000 and not exceeding \$7,000	27.00	Over \$160,000 and not exceeding \$180,000	188.00
Over \$7,000 and not exceeding \$8,000	30.00	Over \$180,000 and not exceeding \$200,000	198.00
Over \$8,000 and not exceeding \$9,000	33.00	Over \$200,000 and not exceeding \$240,000	210.00
Over \$9,000 and not exceeding \$10,000	36.00	Over \$240,000 and not exceeding \$280,000	220.00
Over \$10,000 and not exceeding \$12,000	40.00	For every \$40,000 or part thereof in excess over \$280,000 an additional fee of	10.00

BUILDING RESEARCH LEVY

A building research levy based upon \$1. per \$1,000 or part thereof of value of total permit value requires to be paid.

Permits of a lesser value than \$3,000 are exempt from this levy.

IMPORTANT

PLANS AND SPECIFICATIONS

All builders should be conversant with the Building By-laws wherein the requirements regarding drawings are stipulated.

Any applications not complying will not be accepted.

It is an offence to start building work before a permit is issued.

All plans must be drawn to scale.

DAMAGE DEPOSIT

The amount of the damage deposit referred to overleaf is necessary to ensure that the value of any damage that is caused to public property during construction operations is recovered from the main contractor, or applicant,, as the case may be.

The amount is to be regarded purely as a deposit, and will be refunded or adjusted upon application, at the completion of the work.

SITING OF BUILDINGS

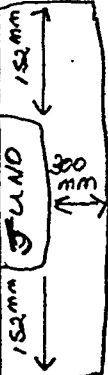
It shall be the responsibility of the Owner of the land and the Builder to ensure that siting of all buildings, conforms with the requirements of the District Planning Scheme and the Building By Laws.

658/210

No 6 Otonga Rd

NO BUILT IN FURNITURE

EXISTING FIRE PLACE



DOOR

CITY OF ROTONGA	
PLANS APPROVED SUBJECT TO ALL REQUIREMENTS OF THE BUILDING & HEALTH DEPT. BEING FULLY COMPLIED WITH.	
Date <u>26.7.78</u>	Permit Number <u>H133247</u>
Inspector <u>G. Thompson</u>	<u>CS</u>

LABOUR DEPT. STAMP PERMITS

THIS PERMIT DOES NOT RELIEVE YOU OF OBLIGATION UNDER SHOPS & OFFICES ACT, FACTORY ACT AND CONSTRUCTION ACT.

DOOR

DOOR

Rotax

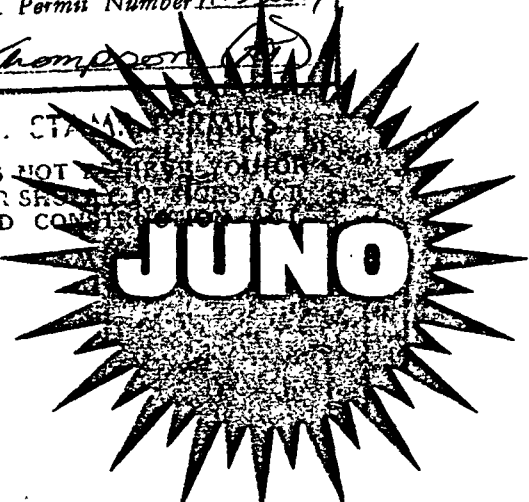
OTONGA

658/210.

CITY OF ROTORUA
PLANS APPROVED SUBJECT TO ALL RE-
QUIREMENTS OF THE BY-LAWS AND
HEALTH DEPT. BEING FULLY COMPLIED
WITH.
Date 26-7-78 Permit Number H13247
Inspector E. J. Thompson

LABOUR DEPT. STAMP

PERMIT DOES NOT EXPIRE FOR
APPLICATION UNDER SHEDDING ACT
FACTORY ACT AND CONSTRUCTION ACT

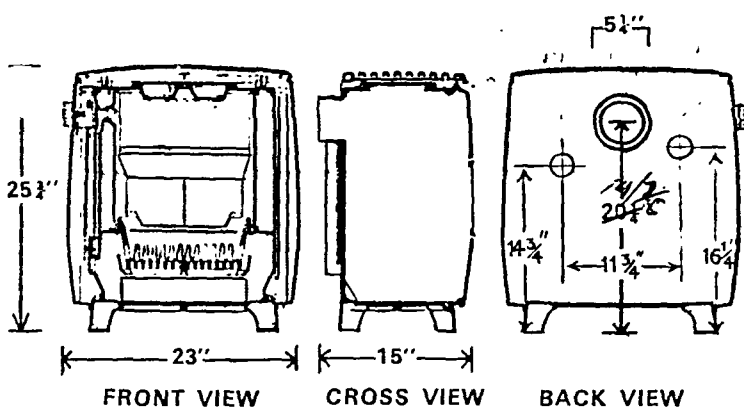


Installation instructions for 'JUNO' space heaters

NZ STANDARD 7421, 1972

GENERAL INFORMATION:

Please Note: Properly installed, your Juno Space Heater should give you years of efficient trouble-free service. We recommend you engage the services of a qualified tradesman and, in the case of a water heating Model, consult a qualified plumber. Check with your local building inspector as to the need for a building permit and compliance with local by-laws. Notify your insurance company that a space heater has been installed.



FITTING INTO EXISTING FIREPLACE

1. Sweep chimney. If new, the chimney should comply with the requirements of N.Z.S. 1900 (Chapter 7) and installations should comply with N.Z.S. 7421, 1972.
2. Careful examination of the fireplace and chimney is essential to ensure there will be no great inleakage of air to reduce the draft on the appliance. Check especially that there is no gap between the fire surround and the chimney face. Timber near the chimney must not be exposed to any danger of overheating. If there is any doubt about the air tightness of the fireplace and the chimney — especially if it is an outside chimney — a stainless steel liner should be used to enclose the flue (preferably from the heater to the chimney outlet) or else provision should be made for the addition of the liner if it is subsequently found necessary.
3. Close off the fireplace chimney with brick, cement, board or similar non-combustible material. *Fill up the fireplace recess with non-combustible material as completely as possible. (*See diagram "A").
4. Bolt cast iron flue pipe to heater with asbestos string firmly fitted into seat groove.
5. Position the heater and pack asbestos rope around the pipe to ensure an airtight seal. The exposed cast flue pipe is 5 1/2" (260mm), but make a circular aperture of 5 3/4" (273mm). This will leave sufficient clearance to pack with the asbestos rope for an airtight seal.

THIS AIRTIGHT SEAL IS MOST IMPORTANT!

When the exposed pipe is packed, the cast metal sealing collar will hold it firmly in place.

FUELS:

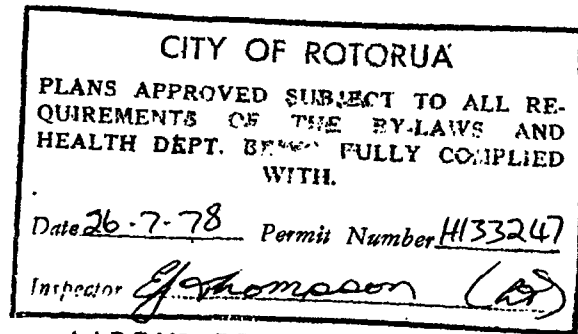
Specially recommended are nut grade coals, and smaller grades of coal other than the highly swelling type. Coke should only be used in a 50/50 mixture with coal.

RATED THERMAL CAPACITY:

20,600 BTU per hour.

RESULTS OF LABORATORY TESTS

Temperature of flue gas F	Coal Consumption lbs/hr	Thermal Efficiency %	Thermal Output Btu's/hr.
273	2.4 2.5 (Water Heater model)	84.3	20,600



LABOUR DEPT. STAMP PERMITS

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FLUE PIPES:

Acceptable flue pipes are as follows:

1. Double-skin steel pipes — generally stainless steel liner, galvanised steel externally, with material such as vermiculite in the annular space.
2. Stainless Steel not less than 0.6mm (24BG) thick.
3. Brass not less than 1.2mm (18BG) thick.

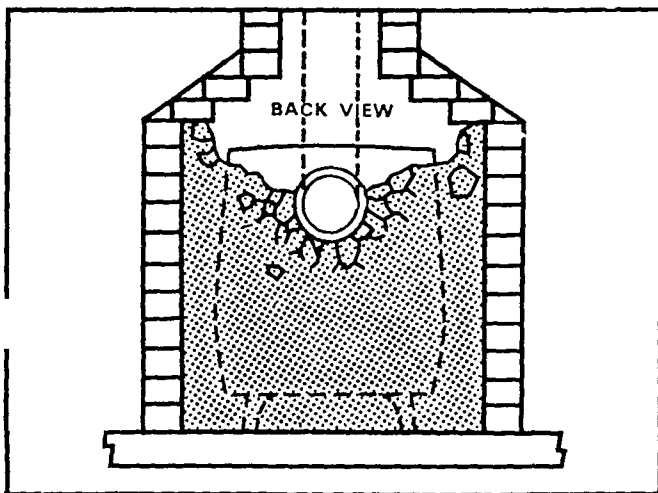
Seams may be welded, or lock folded, and joints between sections may be welded, flanged or inserted with a lap of not less than 50mm.

Please Note: Where the flue extends beyond the roof level, heat losses from this flue should be minimised by using a double skinned flue, preferably packed with Perlite, Vermiculite or similar insulating material and sealed at the top of the annulus face.

FLUE PIPE AIR CLEARANCE

The free air clearance in any direction between heat sensitive material and the surface of a bare flue pipe must be not less than 225mm (10" approx) for a sheet metal pipe

Diagram "A"



HEARTHES

The heater must be supported on an ash hearth constructed of the following approved materials:

- (a) Asbestos millboard not less than 8mm thick, covered with sheet metal not less than 0.6mm thick.
- (b) Ceramic tiles not less than 12mm thick laid with tight joints and securely bedded in cement mortar or glued to the floor.
- (c) A poured concrete hearth not less than 50mm (approx 2") thick.
- (d) Any material deemed satisfactory by the local approving authority.

The hearth must extend a minimum of 152mm (6") on each side of the heater and not less than 250mm (10") in front.

Note: Where particle board type flooring is used, extra precautions are required, as the heat can affect the binding agent in this type of board, causing it to crumble.

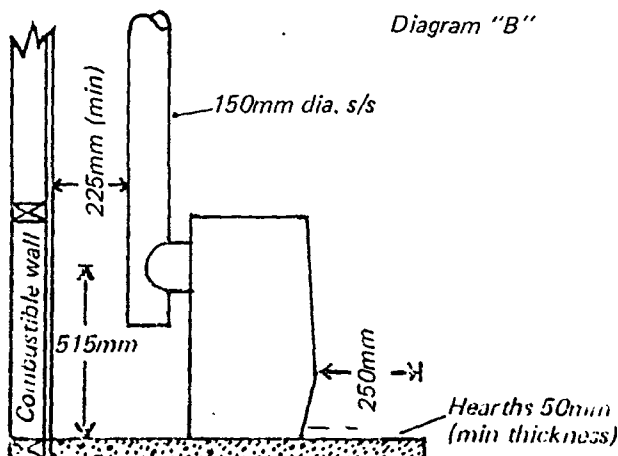
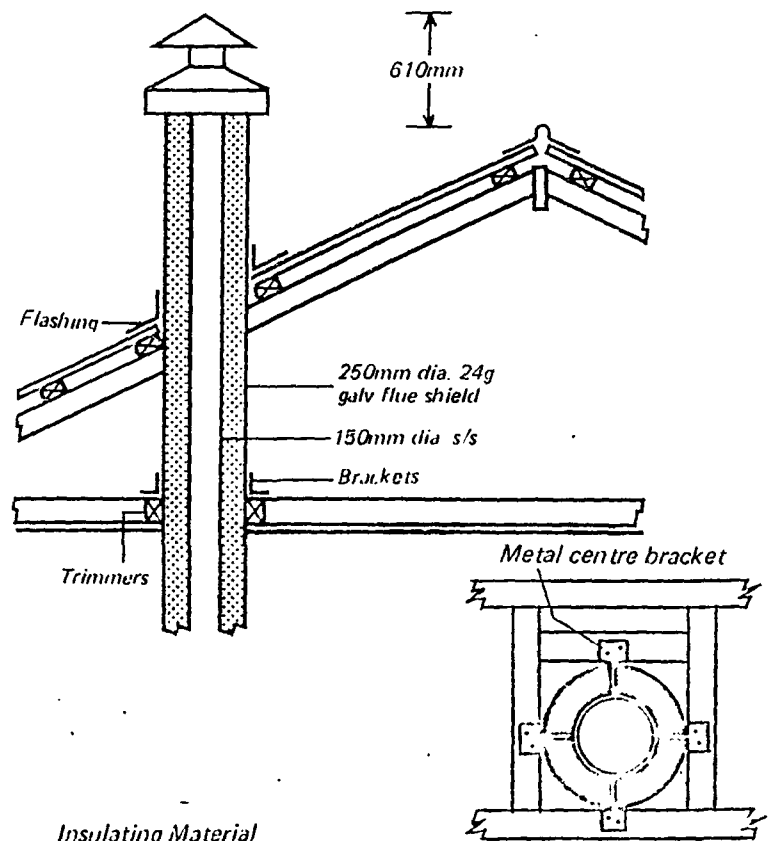
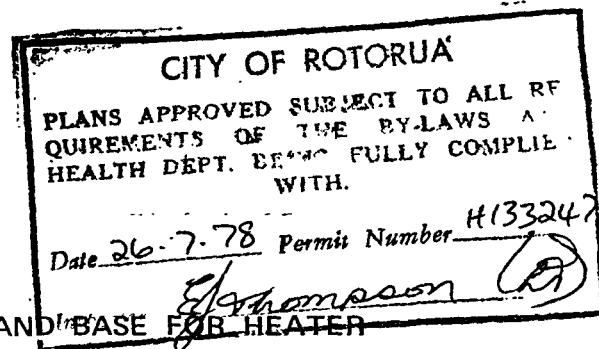
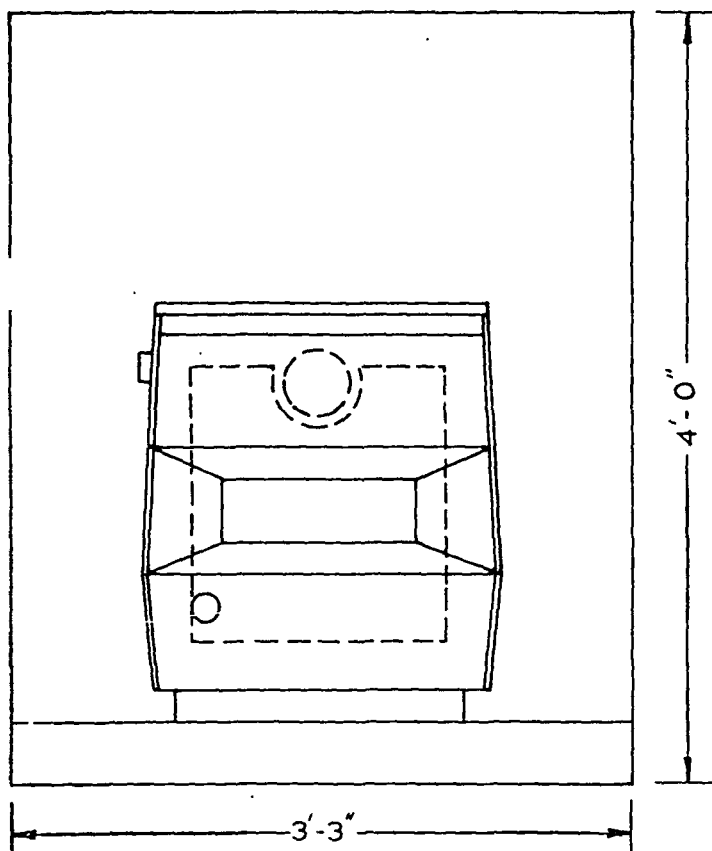


Diagram "B"

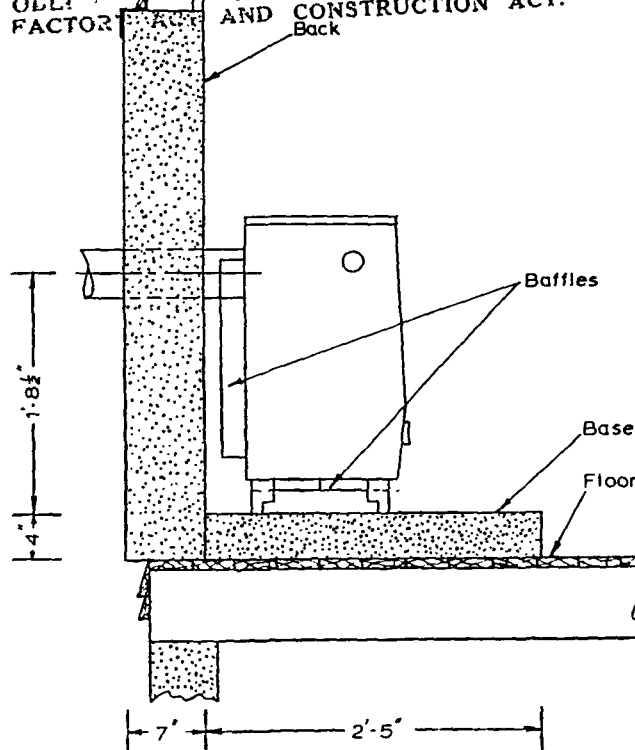




INSTALLATION OF PUMICE CONCRETE BACK AND BASE FOR HEATER



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THIS PERMIT DOES NOT RELIEVE YOU OF
OBLIGATIONS UNDER SHOPS & OFFICES ACT,
FACTORY ACT AND CONSTRUCTION ACT.



HEAT REGULATOR: (Operation of Thermostat)

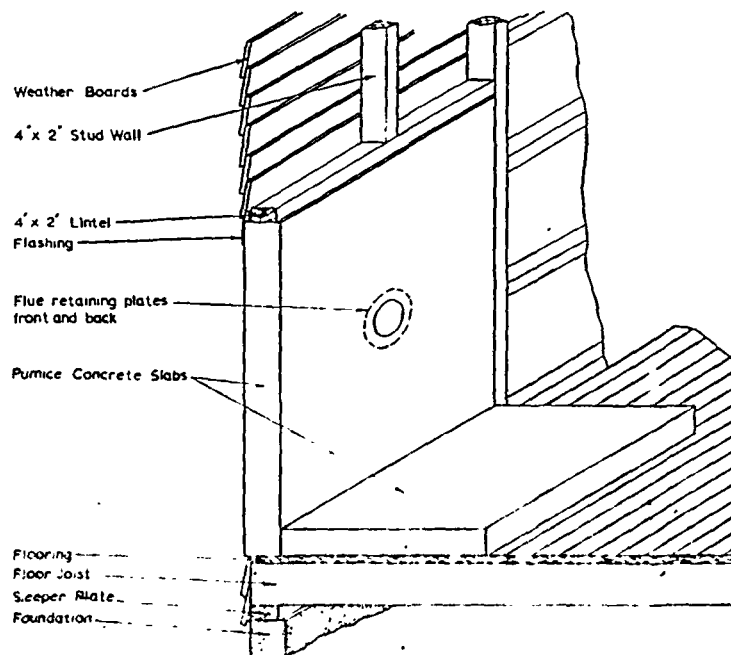
The indicator knob: (Red Section) is for manual operation only. (Black Section) for automatic operation.

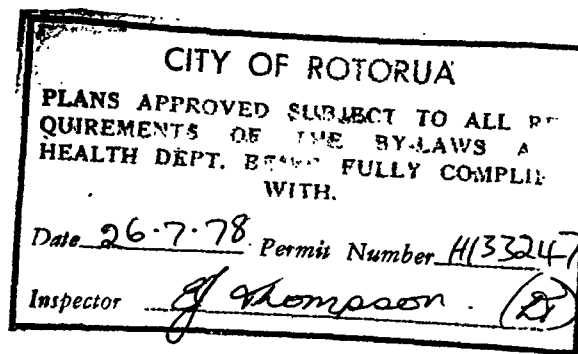
When initially starting the heater, open 4 (Red Section). Once the fire has been well established, with the hopper filled to the top, move the control knob to the black section (approx 3). The control of heat will now be automatically adjusted.

Overnight Setting: It is recommended the control knob be set no lower than 2 to 2½ (particularly water heating models), as a setting lower than this could cause condensation in the chimney and affect the fire.

Always check to see the control mechanism is clear of any obstacles such as small pieces of coal which could jam the movement and damage the thermostatic action. When you leave the control on 4 (black section) the automatic will come into operation.

CONSTRUCTION DETAILS





HANDY HINTS FOR OPERATING JUNO HEATERS

1. When operating hopper make sure top casting is left scrupulously clean to prevent crumbs of coal charring, creating smell.
2. When the fire is firmly established, fill the hopper right to the top with nut sized coal.
3. Keep hopper lid and baffle clean on edges under side to prevent leaking hopper lid seat.
4. Do not let coal hopper go below the bottom edge ribbed when refuelling.
5. Close thermostat to zero for lifting hopper lid before recharging.
6. Clean out grate at least once a week for stone and clinker deposits by removing front grate.
7. Clean side passages with scraper regularly, remove with vacuum cleaner the fine ash. When doing this please make sure the fire is completely extinguished.
8. Empty ashes daily, otherwise restrictions will be created around the grate area on the flow of air.
9. Always ensure that the ash door is fully locked home after emptying ashes. Do not under any circumstances remove safety clip off ash door, otherwise guarantee is null and void.
10. On Standard Junos the correct location for the ribbed cast iron inner baffle in the firebox, push lower legs of the baffle to the rear of the firebox. Feed the top edge through the 2 lugs on either side of firebox, then pull bottom legs back into V slots in grate surround for correct location.
11. Riddle ash regularly throughout the day, operating the riddler arm. Locate riddler arm fully away from flue pipe to vent damage to plastic riddler knob.

LABOUR DEPT. STAMP PERMITS

THAT if using coke, use small size 50/50 mixture with coal
 OEL. Using coke solely can damage firebox castings.

FACTORY ACT AND CONSTRUCTION ACT

13. Lubricate thermostat spindle on heater at regular intervals with small application of a heat resistant graphite grease
14. Do not alter set screw on top of thermostat. This is set at the factory.
15. On water heating models we recommend not to go below 2 to 2½ on Automatic.
16. Should glass strips show sign of buckling, this indicates excessive air entering the firebox. i.e. the ashpan door (middle glass door) or hopper lid is not sealing correctly.
17. On lighting initially bring fire to a bright flame condition as soon as possible, then set the thermostat to the required setting and the flame will keep the glass clean throughout the burning.
18. To tighten asbestos seal on glass door, remove washer behind locking bar attached to the front casting. Also the ashpan door, remove washer behind cast iron latch attached to front casting to tighten seal.
19. To replace glass in middle door, remove door by lifting hinge pins, lay flat on bench and remove glass retainer plates held by 3 screws top and bottom. Replace glass strips as required making sure they butt tight together and recork with asbestos string either end then replace retainer strips.
20. When refuelling the hopper, lift the lid to ½" open initially — hold in this position briefly before opening fully. This action allows the accumulation of gas, which may be present in the hopper, to disperse.

**'JUNO' space heaters
 manufactured by**

**GILLIES
 MANUFACTURING
 COMPANY LIMITED**

THAMES STREET, OAMARU.

**LABORATORY TESTS
 PROVE JUNO MOST
 EFFICIENT.**

*JUNO was tested and approved
 for N.Z. conditions by the N.Z.
 COAL RESEARCH
 ASSOCIATION (INC).*

