

Brick

Permit Without a Jacket

Permit Number A-4169

Construction Permit # A-4169

Sep 25, 1979

Owner.....Tucci
Location.....171 Princeton Ave
Laurelton
Block.....865 Lot.....10
Contractor.....Glen G. Philpot
Fee \$.....15.00 Use.....Replacement/Gas HW Boiler

BUILDING SUB-CODE INSPECTIONS

Footing Trench
Slab
Foundation
Framing
Insulation
Final
C. O. Issued

VIOLATIONS

PLUMBING SUB-CODE INSPECTIONS

Slab
Rough
Septic/Sewer
Water
Final

Electrical Final

Use reverse side for additional remarks

CONSTRUCTION PERMIT APPLICATION

BRICK TOWNSHIP, NEW JERSEY

992-1241

IMPORTANT — Complete ALL items. Mark boxes where applicable

1. LOCATION OF BUILDING	Number and street	Section	Lot	Block
	177 Princeton Ave	LAURELTON	10	865
	N ^S COR. Princeton Ave. feet E ^W from intersection of FAIRVIEW PL. (Other local geographic, political, or legal subdivision identification)			

II. TYPE AND COST OF BUILDING — All applicants complete Parts A-D

A. TYPE OF IMPROVEMENT 1 ☐ New buildings 2 ☐ Addition (if residential, enter number of new housing units added, if any, in Part D, 13) 3 ☐ Alteration (See 2 above) 4 ☐ Repair, replacement 5 ☐ Demolition 6 ☐ Moving (relocation) 7 ☐ Garage ☐ Swim Pool ☐ in ☐ out ☐ Fence		D. PROPOSED USE — For "Wrecking" most recent use <table border="1"> <tr> <th>Residential</th> <th>Nonresidential</th> </tr> <tr> <td>12 ☐ One family</td> <td>18 ☐ Amusement, recreational</td> </tr> <tr> <td>13 ☐ Two or more family — Enter number of units</td> <td>19 ☐ Church, other religious</td> </tr> <tr> <td>14 ☐ Transient hotel, motel, or dormitory — Enter number of units</td> <td>20 ☐ Industrial</td> </tr> <tr> <td>15 ☐ Garage</td> <td>21 ☐ Parking garage</td> </tr> <tr> <td>16 ☐ Carport</td> <td>22 ☐ Service station, repair garage</td> </tr> <tr> <td>17 ☐ Other — Specify</td> <td>23 ☐ Hospital, institutional</td> </tr> <tr> <td>24 ☐ Office, bank, professional</td> <td>24 ☐ Public utility</td> </tr> <tr> <td>25 ☐ School, library, other educational</td> <td>26 ☐ Stores, mercantile</td> </tr> <tr> <td>26 ☐ Tanks, towers</td> <td>27 ☐ Other - Specify</td> </tr> <tr> <td>27 ☐ Other - Specify</td> <td></td> </tr> </table>		Residential	Nonresidential	12 ☐ One family	18 ☐ Amusement, recreational	13 ☐ Two or more family — Enter number of units	19 ☐ Church, other religious	14 ☐ Transient hotel, motel, or dormitory — Enter number of units	20 ☐ Industrial	15 ☐ Garage	21 ☐ Parking garage	16 ☐ Carport	22 ☐ Service station, repair garage	17 ☐ Other — Specify	23 ☐ Hospital, institutional	24 ☐ Office, bank, professional	24 ☐ Public utility	25 ☐ School, library, other educational	26 ☐ Stores, mercantile	26 ☐ Tanks, towers	27 ☐ Other - Specify	27 ☐ Other - Specify	
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B. OWNERSHIP 8 ☐ Private (individual, corporation, nonprofit institution, etc.) 9 ☐ Public (Federal, State, or local government)		Nonresidential — Describe in detail proposed use of buildings, e.g., food processing plant, machine shop, laundry building at hospital, elementary school, secondary school, college, parochial school, parking garage for department store, rental office building, office building at industrial plant. If use of existing building is being changed, enter proposed use.																							
C. COST 10. Cost of improvement \$1500. To be installed but not included in the above cost a. Electrical (# Fixtures, Outlets) b. Plumbing (# of Fixtures) c. Heating, air conditioning d. Other (elevator, etc.) 11. TOTAL COST OF IMPROVEMENT \$		(Omit cents)																							

III. SELECTED CHARACTERISTICS OF BUILDING —

For new buildings and additions, complete Parts E-I; for wrecking, complete only Part H, for all others skip to IV.

E. PRINCIPAL TYPE OF FRAME ☐ Masonry (wall bearing) ☐ Wood frame ☐ Structural steel ☐ Reinforced concrete ☐ Other - Specify	H. DIMENSIONS Number of stories Total square feet of floor area, all floors, based on exterior dimensions Total land area, sq. ft.	FEE COMPUTATIONS VOLUME OF BUILDING BUILDING SUB CODE ELECTRICAL CODE PLUMBING CODE PLAN REVIEW CERTIFICATE OF OCCUPANCY STATE TRAINING FUND CONSTRUCTION PERMIT FEE
F. TYPE OF HEATING SYSTEM Specify NAT GAS Hot WATER BASEBOARD Air Cond. Yes ☐ No ☒	1. RESIDENTIAL BUILDING ONLY Number of bedrooms Number of bathrooms Full { Partial }	15.00
G. TYPE OF SEWERAGE DISPOSAL ☐ Public ☐ Individual		

SEE REVERSE

A-4169

15.00

SUB CONTRACTORS

NAME	TRADE	ADDRESS	ZIP CODE	PHONE #
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				

PERSON TO BE IN CHARGE OF CONSTRUCTION

NAME

Glenn G. Philpott

ADDRESS

IV. IDENTIFICATION — To be completed by all applicants

Name	Mailing address — Number, street, city, and State	ZIP code	Tel. No.
1. Owner <i>Lucas</i>	171 <i>Peruilton Ave.</i>	08723	
2. Contractor <i>Glenn G. Philpott</i>			
3. Architects			

The owner of this building and the undersigned agree to conform to all applicable laws of Township of Brick and that all required state, county and local prior approvals have been given.

Signature of applicant

Address

Application date

Glenn G. Philpott *171 Peruilton Ave.* *9/24/79*

DO NOT WRITE IN THIS SPACE — FOR OFFICE USE ONLY

Approved by

Date permit issued

Permit Number

Robert J. Bradley *9/25/79* *A-4169*

I agree to construct said building in conformity with the plans and specifications filed with the Construction Official and in compliance with the provisions of the Building Code whether shown on plans or not.

Plumbing and Heating Supply, Inc.

930 HIGHWAY 70 • BRICK TOWN, N. J. 08723 • 892-8700

CALCULATION SHEET Hydrotherm

Dealer <u>Glen Philip</u>	Boiler <u>ContraGas</u>	Wall Construction <u>Sheet Rock</u>	Date <u>9/24/79</u>
Address <u>229 LAURMAN AVE.</u> <u>173 Princeton</u>	B.B. <u>77 FT BB</u>	Storm Sash ☒ Weather-stripped	Est. by
Job <u>D. Tucci</u>	No. Zones <u>1</u>	Roof or Ceiling <u>SHEET ROCK</u>	Temp. Diff.
Address <u>173 Princeton Av.</u>	No. Circ. <u>1</u>	Floor <u>CARPET</u>	Avg. Water Temp. in Radiation <u>180°</u>
Remarks			

ROOM	EXPOSURES	Length of Exposed Wall Incl. Clo.		Windows and/or Doors		ROOM SIZE			AREA SQUARE FEET				CU. FT.	Total Btu at 70° T.D.	Feet of Avail-able Wall	Comp. Units W/D	ENDS CORNER				Wall Ends
		L	H	W	H	L	W	H	Gross Wall Factor	Glass	Net Wall	Roof or Ceiling	Floor (See Note)	Volume Infil.			L	R	I	O	
Bed 3	2	22	8	24	50	11	11	8		1800	900	600	300	1800	5400	10 FT					
Bed 1	2	24	8	32	50	13	11	8		2400	900	700	400	2200	6600	12 FT					
Bed 2	1	10	8	24	50	12	10	8		1800	400	600	300	1200	4300	8 FT					
Liv Rm	3	44	8	45	50	22	12	8		3300	1800	1300	700	5300	12,400	21 FT					
Kitchen	1	14	8	18	50	20	14	8		1300	500	1400	800	2800	6800	12 FT					
Bath	2	22	8	6	50	13	9	8		500	900	600	300	1800	4100	7 FT					
ENTRY	2	17	8	21	50	13	4	8		1600	700	300	200	800	3600	7 FT					
																77 FT					
BOILER														TOTALS	43200						

NOTE: Add 20% for Baths and Lavatories.

For use with I-B-R Installation Guide No. 5 and H-20
For Concrete Floor on Ground or Fill at Grade Level, use Linear Feet of Exposed Edge. For All Other Floors, use Square Feet of Area.

WE CAN ASSUME NO RESPONSIBILITY FOR INCORRECT HEAT LOSS CALCULATIONS

PA 422 AN
Buckner
Hydrotherm



Hydrotherm

HC Series Convertible Cast Iron Gas-Fired Hydronic Boilers
65,000 to 180,000 Btuh Input

Hydrotherm Boilers provide ideal comfort and reliable

The HC Series is equipped with self-energizing controls and requires no outside power supply for boiler operation. This control system utilizes the heat of the pilot flame to generate its own current for completely silent operation of the gas control valve. This most advanced and reliable control system can reduce installation cost and assure uninterrupted boiler operation during power failure. Electrical power is required for circulator operation and 24 volt controls are available on request.



Here is a heating unit that fits easily and attractively into almost any space or location and provides all the heating output of bulky, larger size boilers. Its "convertible" feature represents a new concept in packaged boiler design. This concept enables your contractor to meet a wide variety of installation requirements with a single high-quality, moderately-priced unit. Further, to assure the lowest pos-

Dome is of the same quality cast iron as the absorption unit; offers maximum resistance to corrosive flue gases.

High-temperature limit — directly immersed in boiler water, interrupts gas flow if maximum temperature setting is exceeded.

Attractive styling — two-tone decorator colors.

Thoroughly insulated with 1" thick fiberglass insulation.

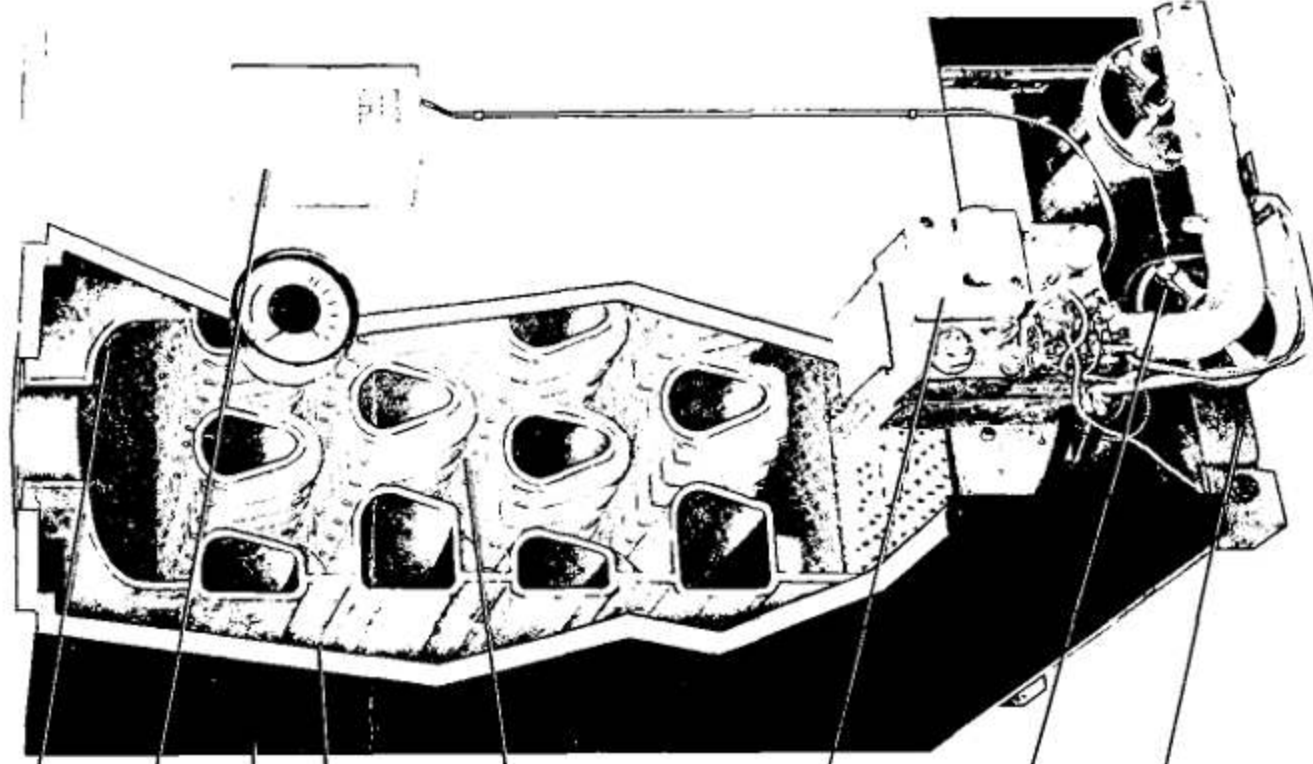
Absorption unit provides maximum heat transfer in minimum space. It is constructed of gray cast iron, hydrostatically-tested at 250 psi and is fully assembled. Horizontal section design forces boiler water to travel in a zig-zag path from return to supply which assures optimum fuel economy and more Btu's per pound of cast iron than heretofore possible.

Self-energizing combination gas control combines main gas cock, pilot filter, pilot gas cock, pilot safety valve and pressure regulator. Interlocking arrangement assures absolutely-safe lighting in programmed steps.

Mixer tubes with adjustable steel shutters. Working on venturi principle, they thoroughly mix air and gas for efficient combustion.

Boiler base encloses highest quality cast iron burners with raised drill ports to assure clean, efficient and silent combustion.

Optional combustible flooring base pan — (not shown) permits use of boiler on combustible type flooring such as wood.



struction and embody all of the features and fine quality for which Hydrotherm has become famous. Latest advances in heat exchanger design have been combined with modern foundry technology to make "HC" even more efficient, compact and economical.

Factory-packaged. All HC boilers are tested and shipped fully assembled with flush insulated jacket. Adjustable hi-limit aquastat and self-energizing safe lighting combination gas valves are factory-wired to terminal panel at rear of boiler. Standard equipment includes combination temperature and pressure gauge (tridicator), vent fitting with relief valve, cast-in air separator, universal circulator fitting with drain cock, extra well for circulator control and draft hood. The terminal panel is wired to the adjustable hi-limit aquastat and self-energizing combination valve in front of boiler, eliminating the need for wiring in front of boiler.

Two optional circulator controls are available — LS-50 Aquastat Circulator Control or RTS-20 Relay Circulator Control.

Zone Pak available

compact $\frac{3}{4}$ " zone valves factory-assembled and tested on a bronze manifold, together with power supply zone box for 2, 3, 4, 5 and 6 zones. Required number of two-wire thermostats are supplied with each Zone Pak. Each zone valve is factory-wired to terminal board on zone box.

Universal circulator fitting with drain cock is factory-assembled with the boiler. Its four-hole flange permits close mounting of any type circulator.

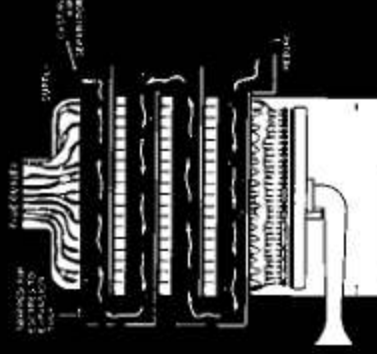
Vent fitting and relief valve shipped with boiler. Has tapped opening for direct connection of expansion tank and permits direct mounting of diaphragm tank and float vent.

NOTE: Due to their small water content, Hydrotherm HC series boilers should be installed with a circulator when used to replace a boiler servicing a gravity designed system.

dronic heating equipment in the world. Its reputation for quality is unsurpassed in the industry. And, its exclusive horizontal design is incorporated into the HC Series Hydrotherm boiler, providing maximum heat transfer and very high operating efficiency.



HEAT TRAVEL



WATER TRAVEL

Hydrotherm's exclusive horizontal section design provides for extremely efficient heat transfer and lower operating costs. Each section exposes large deep-ribbed iron surfaces at right angles to rising gases. Water travel zig-zags from section to section, assuring uniform heat transfer and preventing hot spots, condensation and internal stresses. A specially-designed air separator effectively traps liberated air for venting into an expansion tank or float-type air vent.



NATURAL GAS

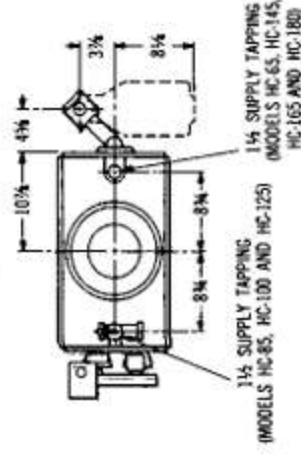
PROPANE GAS

MODEL	A.G.A. RATINGS INPUT (BTU/HR.)	A.G.A. RATINGS OUTPUT (BTU/HR.)	I-B-R NET RATING (1) (BTU/HR.)	EOR (2)	A.G.A. RATINGS INPUT (BTU/HR.)	A.G.A. RATINGS OUTPUT (BTU/HR.)	I-B-R NET RATING (1) (BTU/HR.)	EOR (2)
HC-65	65,000	52,000	45,200	301	60,000	48,000	41,700	278
HC-85	85,000	68,000	59,100	394	77,000	61,600	53,900	359
HC-100	100,000	80,000	69,600	464	100,000	80,000	69,600	464
HC-125	125,000	100,000	87,000	580	125,000	100,000	87,000	580
HC-145	145,000	116,000	100,900	672	145,000	116,000	100,900	672
HC-165	165,000	132,000	114,800	765	165,000	132,000	114,800	765
HC-180	180,000	144,000	125,200	835	180,000	144,000	125,200	835

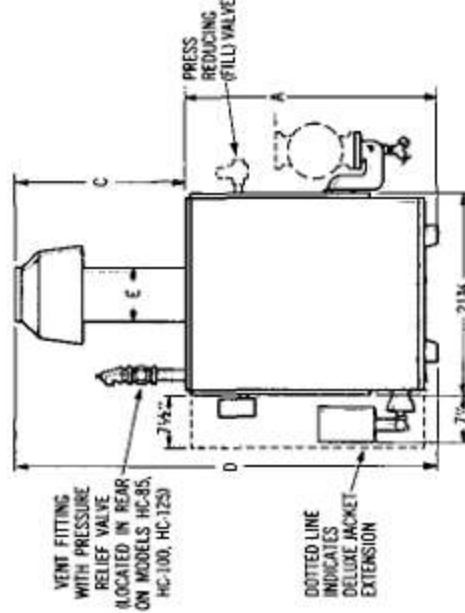
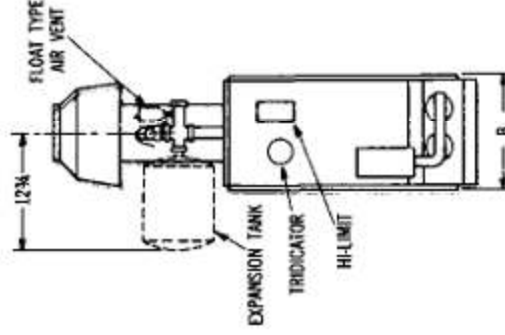
- Based on an allowance of 1.15. The manufacturer should be consulted before selecting a boiler for installations having unusual piping and pick-up requirements.
 - Based on 150 Btu/hr. per sq. ft. EOR @ 170°F average water temperature.
- For operation at altitudes over 2,000 ft. above sea level, boiler input and ratings should be reduced by 4% for each 1,000 ft. above sea level. Specify altitude for proper nozzle or orifice sizes when ordering.
- For capacities up to 300,000 Btu/hr. input, refer to "R" catalog; for capacities from 360,000 to over 7,200,000 Btu/hr. input, refer to "Multi-Temp." catalog.

dimensions,
tappings
and
controls

MODEL	HEIGHT "A"	WIDTH "B"	DRAFT DIVERTER HEIGHT "C"	TOTAL HEIGHT "D"	FLUE SIZE "E"	WEIGHT (LBS.)
HC-65	19"	12 1/2"	15"	34"	5"	215
HC-85	23 3/4"	12 1/2"	24"	47 3/4"	5"	265
HC-100	23 3/4"	12 1/2"	28"	51 3/4"	6"	275
HC-125	23 3/4"	12 1/2"	32 1/4"	56"	6"	285
HC-145	27 1/4"	12 1/2"	32 1/4"	59 1/2"	6"	325
HC-165	29"	15 1/2"	31 1/2"	60 1/2"	6"	385
HC-180	29"	15 1/2"	31 1/2"	60 1/2"	7"	390



MINIMUM CLEARANCE: 18" FRONT
AND BACK, 6" EACH SIDE



meets
ASME & I-B-R
and other code
requirements



TRIM COMPONENTS CODE AND DESCRIPTION	BOILER TRIMS														
	X	XT	C	CT	CX	CXT	AX	AXT	CA	CAT	CAX	CAXT	RX	CR	CRX
C Circulator															
A Aquastat Circulator Control (LS-50)***															
X Diaphragm Exp. Tank, Fill Valve, Air Vent**															
R RTS-20 Relay															
T Thermostats															
Z Electro-Zone Pak w/Thermostats															

*Add number of zones to boiler trim designation. For example: to order trim with circulator and Two-Zone Pak, specify Trim CZ-2. (Thermostats are always shipped with Zone Pak.)

**Trim X contains No. 15 Extrol Expansion Tank for Models HC-85 to HC-145 and No. 30 Extrol Expansion Tank for Models HC-165 and HC-180. No. 15 Extrol is supplied unless boiler model is specified.

***Not for use on Models HC-165 and HC-180.

Trim L, deluxe jacket extension, is available for all models.

HYDROTHERM, INC.
ROCKLAND AVE.
NORTHVALE, N.J. 07647
(201) 768-5500



An Automation Industries, Inc. Company