

City of Portland, Maine - Building or Use Permit Application

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 05-1589	Issue Date: NOV 17 2005	CB#: 125 0008001
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Location of Construction: 593 FOREST AVE	Owner Name: GIUSTI NICHOLAS III	Owner Address: PO BOX 2005	Phone: 2078925683
Business Name:	Contractor Name: The Steinert Co., Inc.	Contractor Address: 64 Rt. 35 No. Windham	Phone: 2078925683
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	Zone:

Past Use: Commercial	Proposed Use: 3 unit residential/ new Biasi boiler in basement	Permit Fee: \$165.00	Cost of Work: \$16,000.00	CEO District: 3
		FIRE DEPT: <input type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: J Type: HVAC IMC 2003	

Proposed Project Description:
new Biasi boiler in basement

Signature: *JLK P.F.D. 10/28/05* Signature: *[Signature]*

PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)

Action: Approved Approved w/Conditions Denied

Signature: _____ Date: _____

Permit Taken By: Idobson	Date Applied For: 10/28/2005	Zoning Approval	
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<ol style="list-style-type: none"> This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules. Building permits do not include plumbing, septic or electrical work. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work. 	Special Zone or Reviews <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: _____	Zoning Appal <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date: _____	Historic Preservation <input type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date: _____
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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

City of Portland, Maine - Building or Use Permit

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 05-1589	Date Applied For: 10/25/2005	CBL: 125 0008001
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Location of Construction: 593 FOREST AVE	Owner Name: GIUSTI NICHOLAS III	Owner Address: PO BOX 2005	Phone:
Business Name:	Contractor Name: The Steinert Co., Inc.	Contractor Address: 64 Rt. 35 No. Windham	Phone (207) 892-5683
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	

Proposed Use: 3 unit residential/ new Biasi boiler in basement	Proposed Project Description: new Biasi boiler in basement
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Dept: Zoning **Status:** Not Applicable **Reviewer:** Tammy Munson **Approval Date:** 11/16/2005
Note: **Ok to Issue:**

Dept: Building **Status:** Approved with Conditions **Reviewer:** Tammy Munson **Approval Date:** 11/16/2005
Note: **Ok to Issue:**

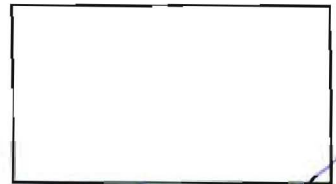
1) Installation shall comply with 2003 International Mechanical Code and State of Maine Oil and Solid Fuel Board Laws and Rules

Dept: Fire **Status:** Approved **Reviewer:** Jay Kelley **Approval Date:** 10/28/2005
Note: **Ok to Issue:**



FILL IN AND SIGN WITH INK

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



125 0 008

To the INSPECTOR OF BUILDINGS, PORTLAND, ME.

The undersigned hereby applies for a permit to install the following heating, cooking or power equipment in accordance with the Laws of Maine, the Building Code of the City of Portland, and the following specifications:

Location / CBL 593 Forest Ave. Portland Use of Building 3 unit Apt. Date 10/25/05
 Name and address of owner of appliance Nick Gullisti 593 Forest Ave.
Portland Me.
 Installer's name and address The Steinert Co. Inc. P.O. Box 1912
Windham Me. 04062 Telephone 892-5683

Location of appliance:
 Basement Floor
 Attic Roof

Type of Fuel:
 Gas Oil Solid

Appliance Name: Bidbi
 U.L. Approved Yes No

Will appliance be installed in accordance with the manufacture's installation instructions? Yes No

IF NO Explain: _____

The Type of License of Installer:
 Master Plumber # 01997
 Solid Fuel # _____
 Oil # MS 10007823
 Gas # _____
 Other _____

Type of Chimney:
 Masonry Lined
 Factory built _____
 Metal
 Factory Built U.L. Listing # _____
 Direct Vent
 Type _____

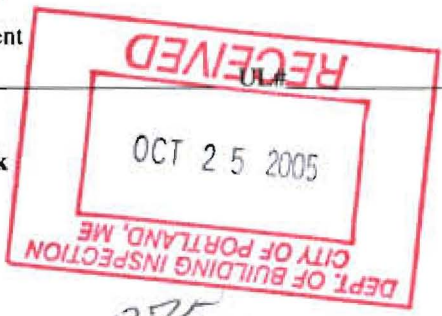
Type of Fuel Tank
 Oil
 Gas

Size of Tank 275

Number of Tanks 1

Distance from Tank to Center of Flame 10' feet.

Cost of Work: \$ 14,000.-
Permit Fee: \$ 165.00



Approved

Approved with Conditions

Fire: _____
 Ele.: _____
 Bldg.: _____

See attached letter or requirement

 Inspector's Signature Date Approved

Signature of Installer Dennis Steinert

The BIASI B-10 Boiler System



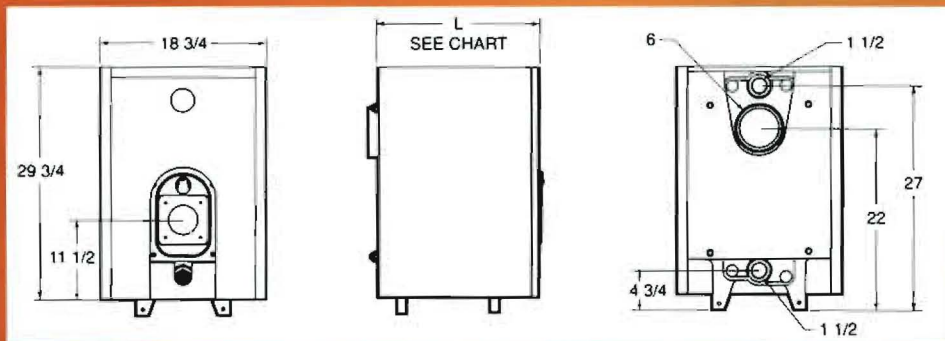
- Energy Star compliant
- Compact size
- Limited lifetime warranty



Quincy Hydronic Technology, Inc. • 1-800-501-7697 • Email: qhtinc@aol.com

BIASI...The Style of Warmth

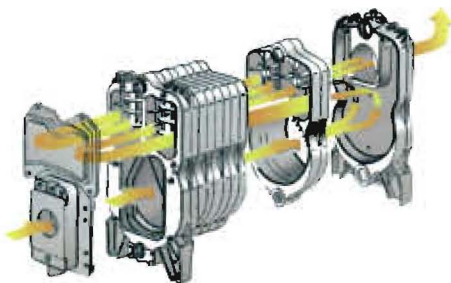
The B-10 boiler system has been heating residential buildings throughout the world for years. It has proven its fuel efficiency and durability in countries where fuel can cost up to four times as much as in the U.S. The same fuel saving technology is now available here in North America. With the three-pass boiler design and low water content, heat is quickly supplied for your heating zones and hot water needs. Combined with an outdoor reset control, you can achieve a fuel savings of up to 40% over conventional single pass boilers. You will also have peace of mind since the B-10 boiler package complies with ASME and UL standards and is IBR rated. The B-10 boiler system is the cost-competitive heat and hot water system of choice.



The BIASI B-10 Residential Series

Boiler Model #	Heating Capacity	Gross Input Burner Capacity		Net Output (MBH)	AFUE Efficiency (%)	Water Content (Gals.)	Length (L) (Inches)	Weight (Lbs.)
		G.P.H.	MBH					
B-3	67	0.55	80	58	86.6	3.7	15.5	247
B-4	110	0.90	115	96	85.8	4.7	19.5	307
B-5	124	1.00	140	108	87.2	5.7	23.5	367
B-6	153	1.25	175	133	86.7	6.7	27.5	427
B-7	185	1.50	215	161	86.8	7.7	31.5	486
B-8	211	1.80	257	183	86.8	8.7	35.5	546
B-9	257	2.10	298	223	86.5	9.7	39.5	606

Maximum water working pressure: 58 PSI (1) The burner input is based on oil with a heat value of 140,000 BTU/Gal.. (2) The net output ratings shown are based on piping and pick-up allowance of 1.15. (3) The efficiency ratings are based on a combustion condition of 12.5% CO₂. Warranty: The BIASI B-10 boiler has a limited lifetime warranty. A copy is provided with each boiler or is available from your dealer. Built in accordance with the requirements of ASME boiler and pressure vessel code.



A 3-pass boiler design is the most efficient way to get the maximum amount of heat from the fuel, since it contains three times as much interior surface area (compared to a single-pass boiler) to extract heat from.

Technical Advantages

- Gas or oil burner compatible
 - Easy access swing door
- No flue required; can be direct vented outdoors
- Low water content boiler heats up faster with less fuel
 - Efficient 3-pass heat exchanger boiler design
 - GG20 cast-iron construction for superior heat retention and durability
 - ASME, UL, and IBR listed
 - 58 psi cast-iron construction

Exclusively distributed by

QHT
INCORPORATED

Quincy Hydronic Technology, Inc. • 1-800-501-7697 • Email: qhtinc@aol.com



Product Specifications

Model No.	Dimension	Height	Boiler/Supply Return	Domestic Inlet/Outlet	3rd Domestic Connection*	Domestic Capacity (gal.)	Heating Water Capacity (gal.)	Heat Surface (sq. ft.)	Empty Weight (lbs)
TR-20	19" x 19"	38"	1"	3/4"	3/4"	20	8	12	110
TR-30	19" x 19"	49"	1"	3/4"	3/4"	30	9	15	165
TR-36	19" x 19"	60"	1"	3/4"	3/4"	36	12	18	180
TR-45	23" x 23"	57"	1 1/4"	1"	1"	46	8	20	194
TR-60	23" x 23"	67"	1 1/4"	1"	1"	56	8	24	220
TR-80	24" x 24"	62"	2"	1 1/2"	1 1/2"	76	15	28	368
TR-100	26" x 27"	72"	2"	1 1/2"	1 1/2"	95	25	34	390
TR-120	30" x 30"	72"	2"	1 1/2"	1 1/2"	119	30	42	450
Smart 20	22" dia.	32"	1"	3/4"	3/4"	22	5	11	100
Smart 30	22" dia.	38"	1"	3/4"	3/4"	28	5	13	115
Smart 40	22" dia.	46"	1"	3/4"	3/4"	36	6	16	135
Smart 50	22" dia.	57"	1 1/4"	3/4"	3/4"	46	8	20	165
Smart 60	22" dia.	66"	1 1/4"	3/4"	3/4"	56	8	24	190
Smart 80	26" dia.	61"	1 1/2"	1 1/2"	1 1/2"	70	14	28	315
Smart 100	26" dia.	78"	1 1/2"	1 1/2"	1 1/2"	95	17	34	340

(*) This fitting can be used as a return connection if circulated domestic water is required or can be used as a connection for the T&P Relief Valve.

Performance

Model No.	Boiler Output Btu/hr	1st Hour Recovery (gal.)	Continuous Flow (gal.)	Peak/Flow Gal/10 min.
TR-20	80,000	125	110	35
TR-30	87,000	140	115	45
TR-36	118,000	190	160	55
TR-45	137,000	220	185	70
TR-60	270,000	410	360	110
TR-80	337,000	510	450	135
TR-100	375,000	575	500	160
TR-120	420,000	650	560	190
Smart 20	79,000	120	105	35
Smart 30	87,000	140	115	40
Smart 40	112,000	180	150	50
Smart 50	140,000	220	185	65
Smart 60	270,000	410	360	100
Smart 80	300,000	460	400	125
Smart 100	337,000	525	450	150



TR Series



SMART Series

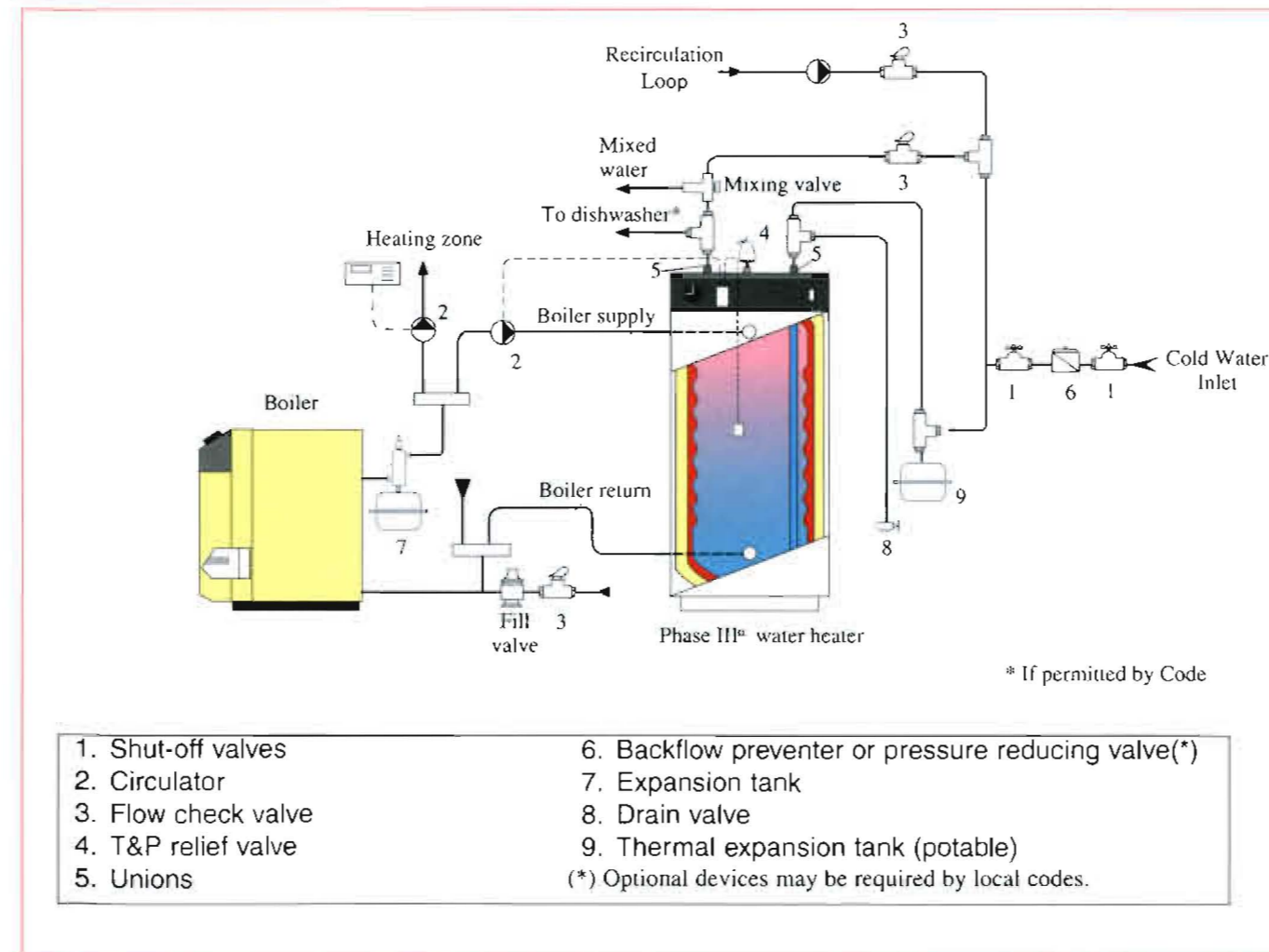
Conditions:

- 200° boiler water supply
- 90° temperature rise

Standard Features

- Durable, corrugated stainless steel inner tank
- Steel outer tank completely insulated with 2" of HCFC free water blown polyurethane foam
- Baked enamel steel jacket for TR models and sturdy plastic exterior jacket for the Smart
- Factory supplied automatic air vent
- Complete control system includes:
 - Adjustable thermostat
 - Temperature gauge (TR series)
- Limited LIFETIME warranty residential
- 15 year limited warranty commercial

Phase III[®] Installation



TriangleTube
Hot Water Specialists

1 Triangle Lane - Blackwood, NJ 08012

E-mail: info@triangletube.com - www.triangletube.com

Tel: (856) 228 8881

Fax: (856) 228 3584

member of



2002-58 TR/Smart Lit. 6/02

Phase III[®]

Stainless Steel Indirect Fired Water Heaters



The SMART CHOICE

in domestic hot water

Exclusive "Tank-in-Tank" Technology

Abundant Domestic Hot Water at the Lowest Possible Cost

A Limited Lifetime Warranty

2" of Polyurethane Foam Insulation

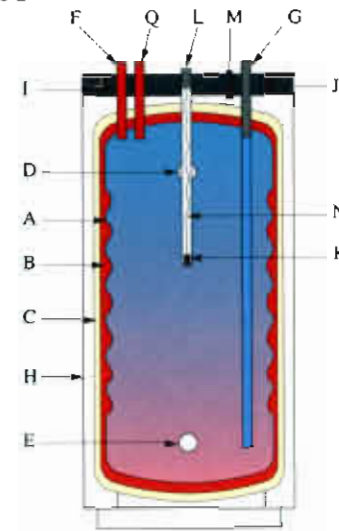
2 Models and 8 Sizes to Choose From



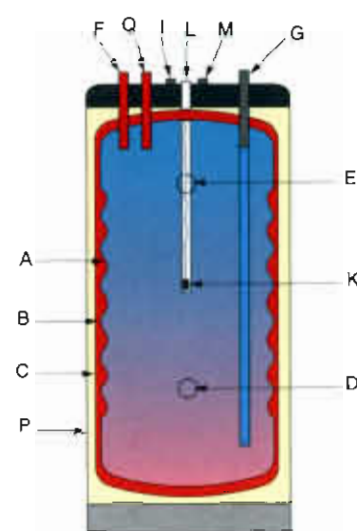
TriangleTube
Hot Water Specialists

Construction Specifications

TR Series



SMART Series



Phase III® is tested in accordance with the standard (ANSI/UL-174, 1989) (CAN/CSA-C22.2 NO. 110-M90) and is certified by ETL.

- | | |
|-------------------------------|------------------------------------|
| A. Inner stainless steel tank | I. Thermostat control |
| B. Outer steel tank | J. Temperature gauge |
| C. Polyurethane insulation | K. Thermostat remote sensing bulb |
| D. Boiler water connection | L. Air vent |
| E. Boiler water connection | M. Electrical wiring plug |
| F. Hot water outlet | N. Thermometer remote sensing bulb |
| G. Cold water inlet | P. Plastic jacket |
| H. Enameled steel jacket | Q. Auxiliary connection |

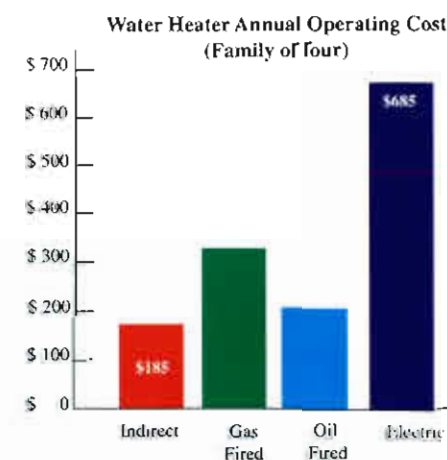
Quality, Performance and Reliability

The Phase III® Indirect Fired Water Heater provides the convenience and comfort of hot water whenever you want it at the lowest possible cost.

High Efficiency, Low Annual Operating Cost

Phase III® indirect fired water heaters, when combined with any boiler, offer domestic hot water supply rates and operating cost efficiencies that are second to none.

A Phase III® Indirect fired water heater can save up to 50% or more off your current water heating bills. Plus, since Phase III® doesn't require a flue and has no burner, your maintenance costs drop dramatically compared to conventional water heaters.



*Based on the following energy cost:
 - Gas: \$ 0.87/Therm
 - Oil: \$ 0.96/Gallon
 - Electricity: \$ 0.11/kw/Hour

A Wise Economic Decision

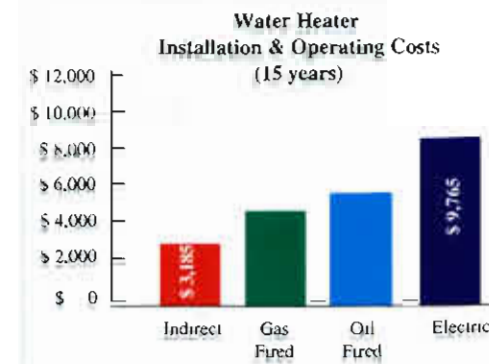
Even with a slightly higher initial purchase price, the total cost of owning a Phase III® Indirect Fired Water Heater is significantly lower than a conventional water heater over a fifteen year period.

Also, the Phase III® exclusive self cleaning, self descaling design prevents the build up of minerals and lime that can reduce performance.

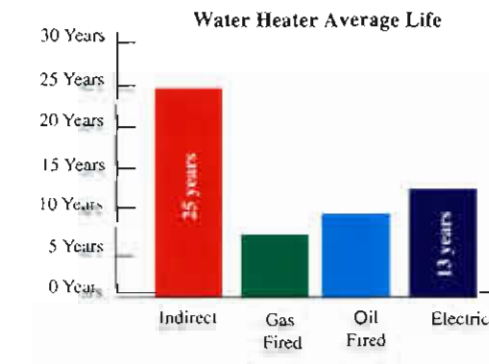
Long Term Dependability and Quality that Lasts

Unlike conventional water heaters, the lower temperature differential between the Phase III® heat exchanger and the domestic hot water dramatically reduces wear and tear on the system.

The average life span of a Phase III® Indirect water heater exceeds 20 years! That is two or three times the average life of a conventional gas, oil or electric water heater.



*Based on household of four persons and average heater life/cost.



*Based on normal residential usage. Life of all units will be reduced where water quality is poor.

Superior Design Tank-in-Tank Technology

Superior Heat Exchange Surface Area

The domestic storage tank is constructed of stainless steel and is surrounded by boiler water in the outer tank, resulting in a full "wrap around" heat exchanger.

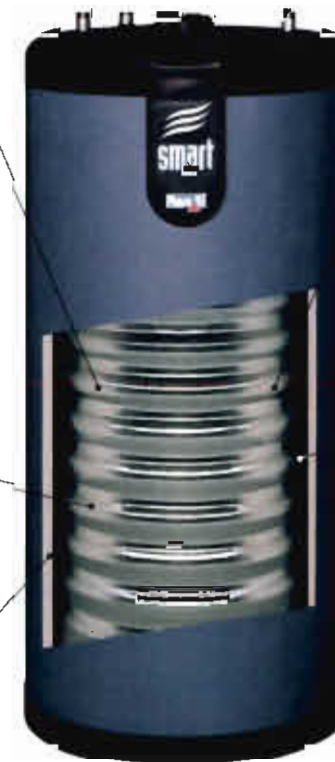
It's superior heat exchange surface (typically 1.5 to 2.5 times larger than a traditional coil) makes for a large volume of hot water in a short period of time. Thanks to this fast recovery, the storage capacity can be reduced, resulting in a reduced thermal loss.

Stainless Steel Tank Construction

The inner domestic storage tank is constructed of durable, corrosion resistant stainless steel.

Optimal Insulation

The Phase III®, TR Series and Smart Series, are insulated with 2" of either sprayed-on or injected polyurethane, foam, resulting in a stand by heat loss of less than 1%/Hr.



Self Cleaning / Self-Descaling

The inner, domestic tank is suspended within the outer tank so it is free to expand and contract as the pressure varies during hot water draws. Moreover, its corrugations amplify the movement and prevents the lime build up on the heat exchanger; thus maintaining its performance during the Phase III®'s life span.

Anti-Bacteria Growth / Maintenance Free

The "Tank-in-Tank" design allows us to store domestic water at higher temperatures preventing bacteria growth. Additionally, constructed of high quality stainless steel, Phase III® does not require a protective anode.

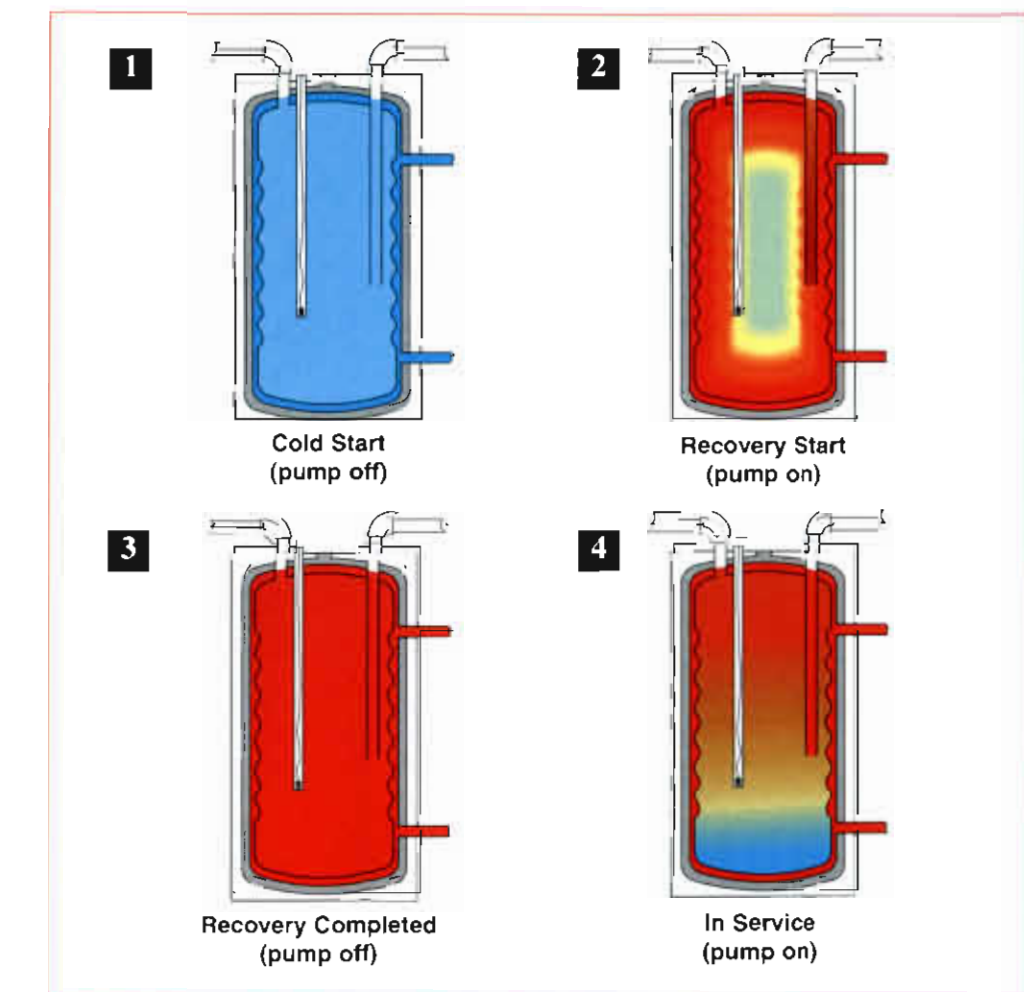
Energy Efficiency

The Phase III® Stainless Steel Indirect Fired Water Heater is heated by the hot water from your boiler. As your home is being heated, your domestic hot water is being heated at the same time, thereby, consuming less fuel and conserving energy. Combine this with a recovery rate that is up to three times faster than conventional gas or electric water heaters, and The Phase III® Water Heater heats more hot water with less fuel for the energy conscious consumer.



How Phase III® Works

Phase III® operating cycle



When the Phase III® thermostat in the inner tank calls for heat, the boiler and circulator start. Boiler water is circulated around the outer tank and heats the domestic water in the inner tank. After transferring its heat, boiler water is returned to the boiler to be re-heated. When the thermostat in the inner tank reaches its pre-set mark, the boiler and circulator shut off.



CITY OF PORTLAND, MAINE
Department of Building Inspections

Oct 24 2005

Received from The Summers Co. Inc.

Location of Work 592 Forest Ave

Cost of Construction \$ _____

Permit Fee \$ 165.00

Building (IL) Plumbing (IS) Electrical (I2) Site Plan (U2)

Other _____

CBL: 195 0 008

Check #: 12152

Total Collected \$ 165.00

THIS IS NOT A PERMIT

No work is to be started until PERMIT CARD is actually posted upon the premises. Acceptance of fee is no guarantee that permit will be granted. PRESERVE THIS RECEIPT. In case permit cannot be granted the amount of the fee will be refunded upon return of the receipt less \$10.00 or 10% whichever is greater.

WHITE - Applicant's Copy
YELLOW - Office Copy
PINK - Permit Copy

Handwritten signature