

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



# CITY OF PORTLAND BUILDING PERMIT

This is to certify that ALLAND JAGGER

Located At 31 SHERIDAN ST.

Job ID: 2011-05-1014-HVAC

CBL: 017 - - F - 017 - 001 - - - -

has permission to install a Buderus Gas Boiler

provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statues of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of the buildings and structures, and of the application on file in the department.

Notification of inspection and written permission procured before this building or part thereof is lathed or otherwise closed-in. 48 HOUR NOTICE IS REQUIRED.

A final inspection must be completed by owner before this building or part thereof is occupied. If a certificate of occupancy is required, it must be

05/17/2011

Fire Prevention Officer

Code Enforcement Officer / Plan Reviewer

**THIS CARD MUST BE POSTED ON THE STREET SIDE OF THE PROPERTY**

**PENALTY FOR REMOVING THIS CARD**

## BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (ONLY)

or email: [buildinginspections@portlandmaine.gov](mailto:buildinginspections@portlandmaine.gov)

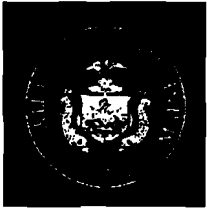
With the issuance of this permit, the owner, builder or their designee is required to provide adequate notice to the city of Portland Inspections Services for the following inspections. Appointments must be requested 48 to 72 hours in advance of the required inspection. The inspection date will need to be confirmed by this office.

- **Please read the conditions of approval that is attached to this permit!! Contact this office if you have any questions.**
  - **Permits expire in 6 months. If the project is not started or ceases for 6 months.**
  - **If the inspection requirements are not followed as stated below additional fees may be incurred due to the issuance of a "Stop Work Order" and subsequent release to continue.**
1. Close-In: (Electrical, Plumbing)
  2. Final Inspection

The project cannot move to the next phase prior to the required inspection and approval to continue, REGARDLESS OF THE NOTICE OF CIRCUMSTANCES.

IF THE PERMIT REQUIRES A CERTIFICATE OF OCCUPANCY, IT MUST BE PAID FOR AND ISSUED TO THE OWNER OR DESIGNEE BEFORE THE SPACE MAY BE OCCUPIED.

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# PORTLAND MAINE

*Strengthening a Remarkable City, Building a Community for Life • [www.portlandmaine.gov](http://www.portlandmaine.gov)*

Director of Planning and Urban Development  
Penny St. Louis

Job ID: 2011-05-1014-HVAC

Located At: 31 SHERIDAN ST

CBL: 017 - - F - 017 - 001 - - - -

## **Conditions of Approval:**

### **Zoning**

1. This property shall remain a three family dwelling. Any change of use shall require a separate permit application for review and approval.

### **Fire**

1. Installation shall comply with City Code Chapter 10.
2. Fuel-fired boilers shall be protected in accordance with NFPA 101, *Life Safety Code*.
3. Installation shall comply with NFPA 211, *Standard for Chimneys, Fireplaces, Vents, and Solid Fuel-Burning Appliances*, NFPA 54, *National Fuel Gas Code*, NFPA 70, *National Electrical Code*, and the manufacturer's published instructions.

### **Building**

1. The installation must comply with UL, the Manufacturers' Listing, and State of Maine Gas Regulations.
2. Separate permits are required for any electrical, plumbing, sprinkler, fire alarm HVAC systems, commercial hood exhaust systems and fuel tanks. Separate plans may need to be submitted for approval as a part of this process.
3. Maintain proper setback(s) from property lines/buildings and proper clearances from vertical openings when direct venting
4. A photoelectric Carbon Monoxide (CO) detector shall be installed in each area within or giving access to bedrooms. That detection must be powered by the electrical service (plug-in or hardwired) in the building and battery.



FILL IN AND SIGN WITH INK

# APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



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 31 Sheridan St. Portland 04101 Use of Building 17-F-17 Residential Date 5/4/11  
 Name and address of owner of appliance Charles & Judith Berg  
31 Sheridan St Portland Me 04101  
 Installer's name and address Jack G. Moore C+G Heating & LP  
320 Hunts corner Waterford ME 04088 Telephone 207-583-4098

**Location of appliance:**  
 Basement       Floor  
 Attic             Roof

**Type of Fuel:**  
 Gas       Oil       Solid

**Appliance Name:** Budens GAS Boiler  
 U.L. Approved  Yes  No + Water TANK

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 # \_\_\_\_\_  
 Solid Fuel # \_\_\_\_\_  
 Oil # \_\_\_\_\_  
 Gas # PNT 23  
 Other \_\_\_\_\_

**Type of Chimney:**  
 Masonry Lined  
 Factory built \_\_\_\_\_  
 Metal  
 Factory Built U.L. Listing # \_\_\_\_\_  
 Direct Vent  
 Type PVC UL# \_\_\_\_\_

**Type of Fuel Tank**  
 Oil  
 Gas

**Size of Tank** \_\_\_\_\_

**Number of Tanks** \_\_\_\_\_

**Distance from Tank to Center of Flame** \_\_\_\_\_ feet.

**Cost of Work:** \$ 12,305.00 \$11,000

**Permit Fee:** \$ 130

**RECEIVED**  
 MAY - 4 2011  
 Dept. of Building Inspections  
 City of Portland Maine

# 125

**Approved**

**Approved with Conditions**

Fire: \_\_\_\_\_  
 Ele.: \_\_\_\_\_  
 Bldg.: \_\_\_\_\_

See attached letter or requirement

Signature of Installer Jack G. Moore

Inspector's Signature \_\_\_\_\_ Date Approved \_\_\_\_\_



FILL IN AND SIGN WITH INK

# APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



To the INSPECTOR OF BUILDINGS, Portland, Ore.

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

Location / City 31 Sheridan St. Portland, ME 12517 Residential on 5/4/11

Name and address of owner Charles & Judith Berg  
31 Sheridan St. Portland, ME 04101

Installer's name and address John G. Maery C&G Heating & Air  
320 Hunt corner Webster St. #200 Portland, ME 04102

Location of equipment:  
 Basement  Floor  
 Attic  Roof

Type of Fuel:  
 Gas  Oil  Solid

Appliance Name Budgens GAS boiler  
U.L. Approved  Yes  No + water tank

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 # \_\_\_\_\_  
 Solid Fuel # \_\_\_\_\_  
 Oil # \_\_\_\_\_  
 Gas # PUT 23  
 Other \_\_\_\_\_

Type of Chimney:  
 Masonry Lined  
Factory built \_\_\_\_\_

Metal  
Factory Built U.L. Listing # \_\_\_\_\_

Direct Vent  
Type PVC ULC

Type of Fuel Tank  
 Oil  
 Gas

Size of Tank \_\_\_\_\_

Number of Tanks \_\_\_\_\_

Distance from Tank to Center of Flame \_\_\_\_\_ feet

Cost of Work: \$12,345.78 \$11,000

Permit Fee: \$130

#125

Approved

Approved with Conditions

Fire: \_\_\_\_\_

Ele.: \_\_\_\_\_

Bldg.: \_\_\_\_\_

See attached letter of requirement

Inspector's Signature

Date Approved

Signature of Installer

John G. Maery

White - Inspection

Yellow - File

Pink - Applicant's

Gold - Assessor's Copy



# State of Maine

DEPARTMENT OF PROFESSIONAL & FINANCIAL REGULATION

MAINE FUEL BOARD

License # PNT23

Be it known that: **JACK G. MOORE**  
has qualified as required by Title 32 MRSA Chapter 130 and is  
licensed as a

**PROPANE & NATURAL GAS TECHNICIAN**  
**APPL. CONN. & SERV. TECH. DELIVERY TECHNICIAN**  
**LARGE EQUIP & SERVICE TECH PLANT OPERATOR**  
**TANK SETTER & PIPE TECH**

**ISSUE DATE**  
Dec 13, 2010

*Anne L. Head*

**EXPIRATION DATE**  
Nov 30, 2012

Director, Office of Licensing & Registration

**City of Portland, Maine - Building or Use Permit Application**

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

Job No: 2011-05-1014-HVAC	Date Applied: 5/4/2011	CBL: 017 - - F - 017 - 001 - - - - -	
Location of Construction: 31 SHERIDAN ST	Owner Name: JUDITH BERG	Owner Address: 31 SHERIDAN ST PORTLAND, ME	Phone:
Business Name:	Contractor Name: Jack Moore, C& G Heating	Contractor Address: 320 Hunts Corner, Waterford ME 04088	Phone: (207) 583-4098
Lessee/Buyer's Name:	Phone:	Permit Type: HVAC - HVAC	Zone: R-6
Past Use: Three Family	Proposed Use: Three Family – install gas boiler & water tank	Cost of Work: 11000.00	CEO District:
		Fire Dept: <input checked="" type="checkbox"/> Approved w/conditions <input type="checkbox"/> Denied <input type="checkbox"/> N/A	Inspection: Use Group: Type: HVAC
		Signature: <i>Bjorn [unclear]</i> (58)	Signature: <i>[unclear]</i>
Proposed Project Description: 31 Sheridan St. – HVAC -install gas boiler		Pedestrian Activities District (P.A.D.)	
Permit Taken By:	<b>Zoning Approval</b>		

<p>1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</p> <p>2. Building Permits do not include plumbing, septic or electrical work.</p> <p>3. Building permits are void if work is not started within six (6) months of the date of issuance. False informatin may invalidate a building permit and stop all work.</p>	<p><b>Special Zone or Reviews</b></p> <p><input type="checkbox"/> Shoreland</p> <p><input type="checkbox"/> Wetlands</p> <p><input type="checkbox"/> Flood Zone</p> <p><input type="checkbox"/> Subdivision</p> <p><input type="checkbox"/> Site Plan</p> <p><input type="checkbox"/> Maj <input type="checkbox"/> Min <input type="checkbox"/> MM</p> <p>Date: <i>ok w/ condition</i> <i>5/21/11 ABM</i></p>	<p><b>Zoning Appeal</b></p> <p><input type="checkbox"/> Variance</p> <p><input type="checkbox"/> Miscellaneous</p> <p><input type="checkbox"/> Conditional Use</p> <p><input type="checkbox"/> Interpretation</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Denied</p> <p>Date:</p>	<p><b>Historic Preservation</b></p> <p><input checked="" type="checkbox"/> Not in Dist or Landmark</p> <p><input type="checkbox"/> Does not Require Review</p> <p><input type="checkbox"/> Requires Review</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Approved w/Conditions</p> <p><input type="checkbox"/> Denied</p> <p>Date: <i>ABM</i></p>
	<b>CERTIFICATION</b>		

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 appication 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

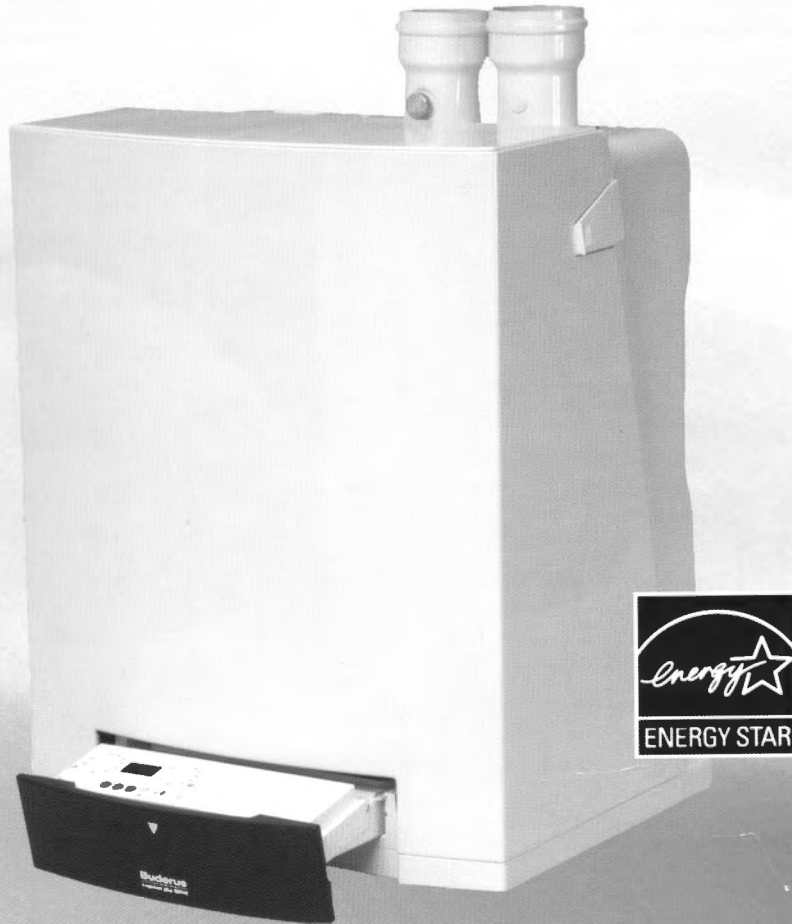
DATE

PHONE

**GB142**

**Ultra Efficient 94+ Wall-Hung Boiler**

**Buderus**



**The Newest Technology from the  
World's Leader in Ultra-Efficient Heating.**

- 94%+ AFUE Efficiency
- Whisper Quiet - Fully Enclosed Housing
- NG or LP Fired
- Direct Vent and Sealed Combustion Options
- Simple Installation with Pre-Piped Boiler Manifold
- AM10 Outdoor Reset Control Module Included
- 4 Models with Inputs from 84,800 to 214,800 BTU/Hr

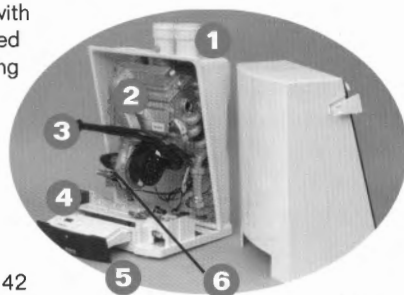
**Comfortable. Efficient. Intelligent Heating.**



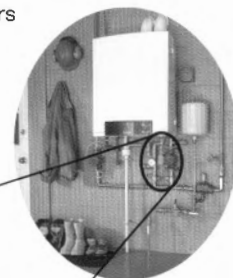
# GB142

## Ultra Efficient 94+ Wall-Hung Boiler

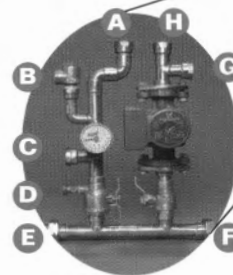
The state-of-the-art design of the GB142, with cast aluminum heat exchanger and integrated controls, is a rare combination of outstanding quality paired with exceptional value. Utilizing advanced condensing technology, the Buderus GB142 Wall-Hung Boiler maximizes the heating value of every cubic foot of natural gas or liquid propane. All GB142 Boilers now come with the AM10 outdoor reset module. The small size and minimal clearance requirements of the GB142 Boiler provide tremendous installation flexibility.



- 1 Vent & Combustion Air Connectors
- 2 Heat Exchanger
- 3 Silencer
- 4 Burner Control
- 5 Control Panel
- 6 Combustion Gas-Air Connection



Thanks to the prefabricated manifold, the GB142 Boiler has the fastest installation in the industry. Specially designed with an appropriately sized circulator, this manifold ensures proper flow-rate through the unit. This feature greatly extends the service life of the GB142. By simplifying the piping, the GB142 manifold allows for quicker, easier, and trouble-free installation.



- A Heater Out
- B Relief Valve
- C DHW Supply
- D Purge
- E System Supply
- F System Return
- G DHW Return
- H Heater In

### GB142 Specifications

Model	GB142/24	GB142/30	GB142/45	GB142/60*
<b>Performance Data</b>				
Rated Input (BTU/Hr)	84,800	106,000	160,900	214,800
Rated Output (BTU/Hr)				
(176° / 140° F)	22,700-75,200	28,100-91,500	42,500-142,000	56,800-176,300
(122° / 86° F)	25,300-83,300	30,700-102,400	47,200-158,000	63,200-196,600
AFUE Efficiency %	95	94.8	95	95
Flue Gas Temperatures (°F)				
(176° / 140° F)	155	167	151	151
(122° / 86° F)	100	100	97	97
CO <sub>2</sub> Content at Full Load 100% (ppm)	9.2	9.2	9.2	9.2
Rated Emission Factor (ppm) NO <sub>x</sub>	24	23	23	22
Max Equivalent Vent Length (Ft.)	100	100	100	60
<b>Piping Connections</b>				
Venting Material	PVC	PVC	PVC	PVC
Vent Pipe Diameter	3"	3"	3"	3"
Air Intake Diameter	3"	3"	3"	3"
Boiler Supply Connection	1"	1"	1"	1"
Boiler Return Connection	1"	1"	1"	1"
System Supply	1"	1"	1 1/2"	1 1/2"
System Return	1"	1"	1 1/2"	1 1/2"
<b>Piping Connections</b>				
Height	28"	28"	28"	28"
Width	22"	22"	35 1/2"	35 1/2"
Depth	18 3/4"	18 3/4"	18 3/4"	18 3/4"
Weight (lbs.)	110	110	143	158
Water Content (gallons)	.65	.65	.93	1.2

\* Available only in Natural Gas



MAP # G1-0606-22  
MEA # 229-05-E

# Buderus

Bosch Thermotechnology Corp.  
50 Wentworth Avenue  
Londonderry, NH 03053  
Tel: (603) 552-1100  
Fax: (603) 584-1681

Subject to change without notice  
© 2008 Bosch Thermotechnology Corp.  
Part Number 44499007 02/08



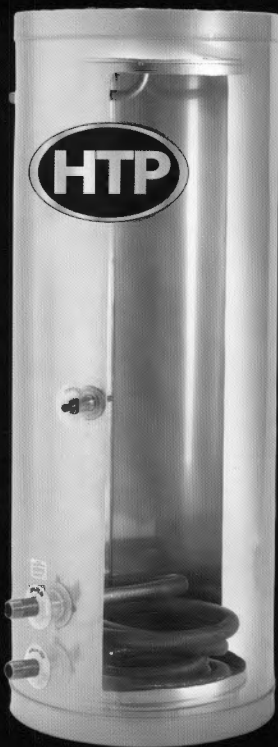
Advanced Heating  
and Hot Water Systems



**SUPERstor**  
**ULTRA** Stainless Steel

# Residential Indirect

The SuperStor Ultra has been Recognized as the Market Leader for Over 25 Years.

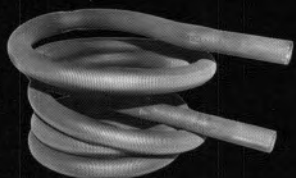


## HTP Stands By This Product

7 Model Sizes Available  
High Output Heat Exchanger  
May Be Eligible for Utility Rebates  
Made in America  
Industry Best: Limited Lifetime  
Warranty on SSU Indirect Tanks

We Take Pride In Our Products and Services!

## HTP's Specially Designed Finned Cupronickel Heat Exchanger

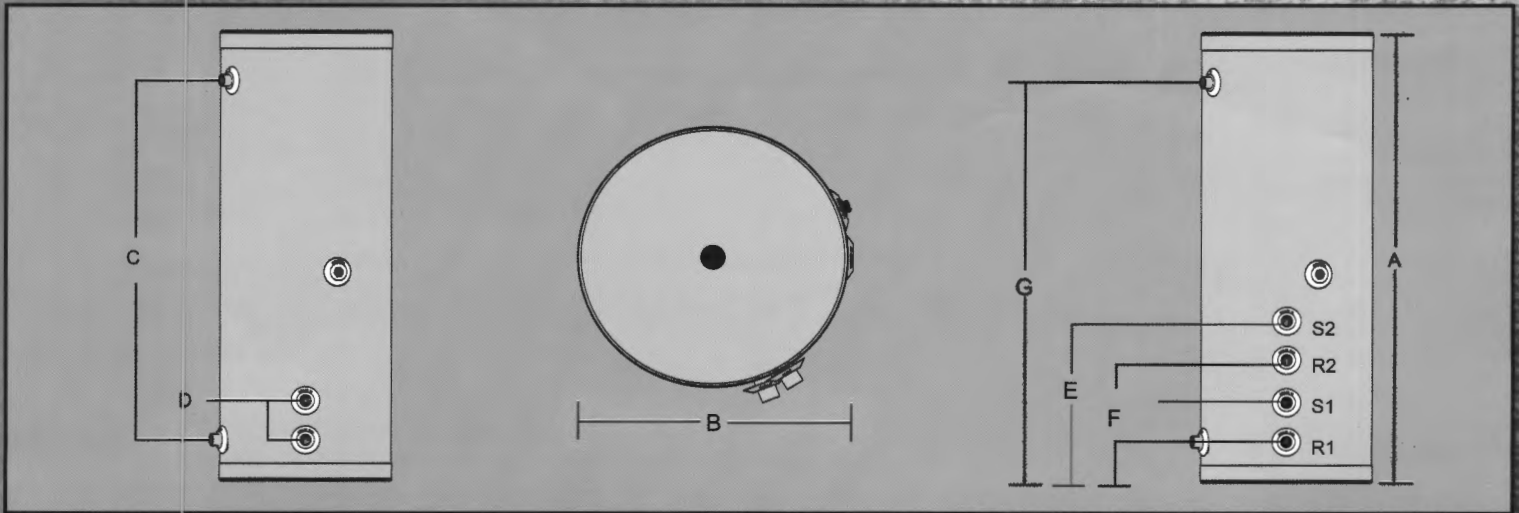


This heat exchanger provides a higher BTU output per foot than any other heat exchanger in the market.

MODEL	180 DEG F BOILER WATER FIRST HOUR RATING		CIRCULATOR GPM	PRESSURE DROP (FEET)
	140 DEG F	115 DEG F		
SSU-20	121 GPH	168 GPH	8	6.0
SSU-30	154 GPH	212 GPH	8	6.0
SSU-30LB	169 GPH	234 GPH	8	6.0
SSU-45	212 GPH	292 GPH	10	7.9
SSU-60	266 GPH	370 GPH	10	7.9
SSU-80	330 GPH	440 GPH	12	9.1
SSU-119	423 GPH	564 GPH	14	11.3

# SuperStor Ultra

## Dimensions and Specifications



Model	A	B	C	D	E		F		G	Capacity	Heat Exchanger Surface	Shipping Weight
	Dimensions Ht	Diameter	Domestic Connections	Boiler Connections	Floor to Boiler Supply		Floor to Boiler Return		Floor to Domestic Out			
SSU-20	27"	19 1/4"	3/4"	1" NPT	S1- 9"		R1- 4 1/2"		22"	20	15 SQ FT	60 LBS
SSU-30	39 1/2"	19 1/4"	3/4"	1" NPT	S1- 9"		R1- 4 1/2"		34"	30	15 SQ FT	72 LBS
SSU-30LB	28 1/2"	23 1/4"	3/4"	1" NPT	S1- 9"		R1- 4 1/2"		22"	30	15 SQ FT	79 LBS
SSU-45**	52 1/2"	19 1/4"	3/4"	1" NPT	S1- 9"		R1- 4 1/2"		46"	45	20 SQ FT	88 LBS
SSU-60**	52 1/2"	23 1/4"	1"	1" NPT	S1- 9"		R1- 4 1/2"		46"	60	20 SQ FT	110 LBS
SSU-80**	72"	23 1/4"	1 1/2"	1" NPT	S1- 29"		R1- 6"		64 3/4"	80	34 SQ FT	141 LBS
SSU-119**	73 1/4"	27"	1 1/2"	1" NPT	S1- 30 1/4"		R1- 7 1/4"		66"	119	34 SQ FT	210 LBS
SSU-45C	42"	23 1/4"	1 3/4"	1" NPT	S1- 6 1/2"	S2- 15 1/2"	R1- 2"	R2- 11"	32"	45	40 SQ FT	99 LBS
SSU-60C	52 1/2"	23 1/4"	1"	1" NPT	S1- 6 1/2"	S2- 15 1/2"	R1- 2"	R2- 11"	43 1/4"	60	40 SQ FT	115 LBS
SSU-80C	72"	23 1/4"	1 1/2"	1" NPT	S2- 25 5/8"		R2- 2 5/8"		61 3/8"	80	68 SQ FT	141 LBS
SSU-119C	74"	27"	1 1/2"	1" NPT	S2- 25 5/8"		R2- 2 5/8"		61 3/8"	119	68 SQ FT	210 LBS

\*DOE test method based on 90°F. Temperature rise, 50°/140° w/boiler water at 180°/200°F

\*\* Residential Double Wall Indirect available. Stainless steel tank w/ high efficiency cupronickel double wall heat exchanger.

NOTE: TANK RECOVERY FROM COLD START WILL BE BETWEEN 10-13 MINUTES WHEN SIZED WITH CORRECT FLOW RATE, BOILER SIZE, AND PRESSURE DROP RATINGS FROM INSTALLATION INSTRUCTIONS. THE MASS OF THE BOILER WILL AFFECT RECOVERY TIME, MORE BOILER MASS EQUALS LONGER RECOVERY TIME.



#### STANDARD FEATURES

- 316L Stainless Steel
- Finned 90/10 Cupronickel Heat Exchanger
- Aquastat Control

#### OPTIONAL EQUIPMENT

- Stainless Steel Aquastat Well
- Thermostatic Mixing Valve
- Bronze Pump

# A Closer Look At HTP's SuperStor Ultra



## Highly Efficient

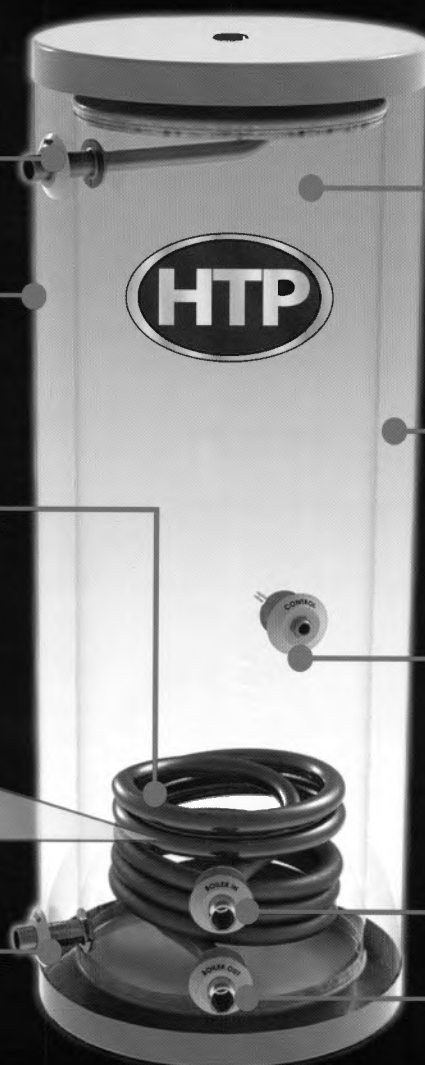
Stainless Steel Hot  
Water Outlet

Attractive silver finish  
cover that resists  
dents and corrosion

High Output Finned  
Cupronickel Heat  
Exchanger Provides  
Maximum Efficiency  
11 Fins per inch



Stainless Steel Cold  
Water Inlet



316L Stainless Steel Tank  
for High Temperatures and  
Superior Corrosion Resistance

Environmentally Safe,  
CFC Free Water Blown,  
2" Thick Foam Insulation  
Limits Heat Loss down to  
1/2 Degree F Per Hour

Immersion Type Stainless  
Steel Control Well

1" Boiler Supply Connection

1" Boiler Return Connection

4 Versions Available:

*Residential  
Residential Double Wall  
Commercial  
Storage Tanks*

4 Designs to Choose From:

*Single Coil Indirect  
Dual Coil for Solar Backup  
Solar w/ Electric Backup  
Storage Tank w/o Coil*

# Stainless Steel Storage Tanks

The Most Efficient Way To Store Hot Water



MODEL	Dimensions		Floor to Drain	Floor to Inlet	Floor to Outlet	Weight (LBS)	Water Connection Sizes
	Height	Diameter					
SSU-30CB	39.5"	19.25"	4.5"	4.5"	33.75"	40	.75" NPT
SSU-45CB	52.5"	19.25"	4.5"	4.5"	45.75"	64	.75" NPT
SSU-60CB	52.5"	23.25"	4.5"	4.5"	45.75"	90	1" NPT
SSU-80CB	72"	23.25"	6"	16"	64.75"	129	1.5" NPT
SSU-119CB	73.5"	27"	7.25"	17.25"	66"	178	1.5" NPT

Low standby heat loss  
 316L stainless steel tank resists corrosion  
 and eliminates the need for anode rods  
 Limited 10 Year Warranty on SSU Storage Tanks

## Residential Double Wall Indirect

Provides additional protection against cross contamination



MODEL	180 DEG F BOILER WATER FIRST HOUR RATING		CIRCULATOR GPM	PRESSURE DROP (FEET)
	140 DEG F	115 DEG F		
SSU-45DW	110 GPH	152 GPH	6	8.2
SSU-60DW	126 GPH	174 GPH	7	12.8
SSU-80DW	160 GPH	221 GPH	10	13.6
SSU-119DW	296 GPH	414 GPH	12	15.9

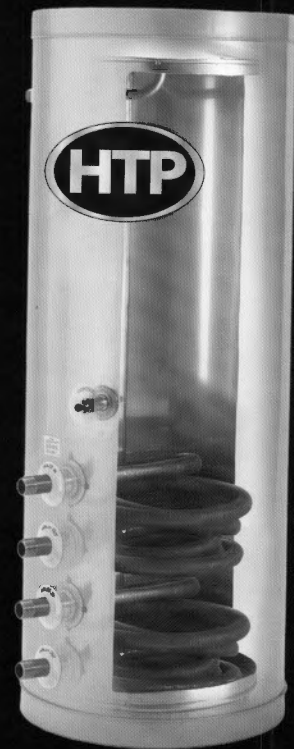
# Commercial Indirect

The commercial SuperStor Ultra contains two heat exchangers to accommodate high volume needs.

## HTP Stands By This Product

4 Models Sizes Available  
Ultra High Output Heat Exchanger  
Made in America  
7 Year Limited Warranty on SSU  
Commercial Indirect Water Heaters

A Great Reputation Backed by Quality!



MODEL	180 DEG F BOILER WATER FIRST HOUR RATING		CIRCULATOR GPM	PRESSURE DROP (FEET)
	140 DEG F	115 DEG F		
SSU-45C	314 GPH	414 GPH	20	6.8
SSU-60C	354 GPH	467 GPH	22	9.2
SSU-80C	490 GPH	647 GPH	24	10.0
SSU-119C	637 GPH	841 GPH	28	12.7