



PORTLAND MAINE

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Jeff Levine, AICP, Director
Director of Planning and Urban Development

Tammy Munson
Director, Inspections Division

Electronic Signature and Fee Payment Confirmation

Notice: Your electronic signature is considered a legal signature per state law.

By digitally signing the attached document(s), you are signifying your understanding this is a legal document and your electronic signature is considered a **legal signature** per Maine state law. You are also signifying your intent on paying your fees by the opportunities below.

I, the undersigned, intend and acknowledge that no permit application can be reviewed until payment of appropriate permit fees are **paid in full** to the Inspections Office, City of Portland Maine by method noted below:

Within 24-48 hours, upon receipt of an e-mailed invoice from Building Inspections, which signifies that my electronic permit application and corresponding paperwork have been received, determined complete, entered by an administrative representative, and assigned a permit number, I then have the following four (4) payment options:

- to provide an on-line electronic check or credit/debit card (we now accept American Express, Discover, VISA, and MasterCard) payment (along with applicable fees beginning July 1, 2014),
- call the Inspections Office at (207) 874-8703 and speak to an administrative representative to provide a credit/debit card payment over the phone,
- hand-deliver a payment method to the Inspections Office, Room 315, Portland City Hall,
- or deliver a payment method through the U.S. Postal Service, at the following address:

City of Portland
Inspections Division
389 Congress Street, Room 315
Portland, Maine 04101

Once my payment has been received, this then starts the review process of my permit. **After all approvals have been met and completed, I will then be issued my permit via email.** No work shall be started until I have received my permit.

Applicant Signature: Michael J. Doyle Date: 10/15/14

I have provided digital copies and sent them on: Michael J. Doyle Date: 10/15/14

NOTE: All electronic paperwork must be delivered to buildinginspections@portlandmaine.gov or by physical means ie; a thumb drive or CD to the office.

Room 315 - 389 Congress Street- Portland, Maine 04101 (207) 874-8703 - Fax: 874-8716 - TTY: 874-8936



PLUMBING PERMIT APPLICATION

| PROPERTY ADDRESS | |
|---|-----------------------|
| Street: | 25 PYA RD |
| CBL: | 140 E01900/ |
| PROPERTY OWNER(S) NAME | |
| OWNER NAME: | MICHAEL DOYLE |
| Applicant Name: | GEORGE DOUGHTY |
| Mailing Address of Owner/Applicant (if Different) | |
| E Mail: | MICHAEL@MAINEYOGA.COM |
| Owner/Applicant Statement | |
| I certify that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Local Plumbing Inspector(s) to deny a permit. | |
| Signature of Owner/Applicant | Date: 10/3/14 |

Town/City PORTLAND Permit # _____
 Date Permit Issued / / Fee: \$ _____ Double Fee Charged

Local Plumbing Inspector Signature _____ L.P.I. # 360

The Internal Plumbing Fixtures and Piping shall not be installed until a Permit is issued by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the plumbing system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.

Caution: Inspection Required

I have inspected the installation authorized above and found it to be in compliance with the Maine Plumbing Rules Application.

LPI Signature _____ Date Approved (Final) _____

PERMIT INFORMATION

| This Application is for 1. <input checked="" type="checkbox"/> NEW PLUMBING 2. <input type="checkbox"/> RELOCATED PLUMBING | Type of Structure to be Served 1. <input checked="" type="checkbox"/> SINGLE FAMILY RESIDENCE 2. <input type="checkbox"/> MODULAR OR MOBILE HOME 3. <input type="checkbox"/> MULTIPLE FAMILY DWELLING 4. <input type="checkbox"/> OTHER-SPECIFY _____ Please call 874-8703 with your permit # to schedule inspections! | Plumbing to be Installed by: NAME: <u>George Doughty</u> E Mail: <u>gfdoughty@gmail.com</u> 1. <input checked="" type="checkbox"/> MASTER PLUMBER 2. <input type="checkbox"/> OIL BURNERMAN 3. <input type="checkbox"/> MFG'D HOUSING DEALER / MECHANIC 4. <input type="checkbox"/> PUBLIC UTILITY EMPLOYEE 5. <input type="checkbox"/> PROPERTY OWNER LICENSE # 2011 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|---|------------------------------------|------------------------------------|--|--------------------|----------------------|-------------|-------------------|--------|------|-------------------|------------|----------------|-----------------------|--|--|----------------|------------------------|-------------|------------|------------------|---|-------|-------------|--------------|--------------|-------------------------------------|-------------------------------------|-----------|--|-----------------------|---|---|-----------------------------|--|--------------------------|---|
| | | <table border="1"> <thead> <tr> <th>Hook-Up & Piping Relocation Maximum of 1 Hook-Up</th> <th>Column 2 Number Type of Fixture</th> <th>Column 1 Number Type of Fixture</th> </tr> </thead> <tbody> <tr> <td rowspan="5"> <input type="checkbox"/> HOOK-UP: to public sewer by those cases where the connection is not regulated and inspected by the local sanitary district. </td> <td>Hosebib / Sillcock</td> <td>Bathtub (and Shower)</td> </tr> <tr> <td>Floor Drain</td> <td>Shower (separate)</td> </tr> <tr> <td>Urinal</td> <td>Sink</td> </tr> <tr> <td>Drinking Fountain</td> <td>Wash Basin</td> </tr> <tr> <td>Indirect Waste</td> <td>Water Closet (Toilet)</td> </tr> <tr> <td rowspan="3"> <input type="checkbox"/> HOOK-UP: to an existing subsurface wastewater disposal system </td> <td>Water Treatment Softener, Filter, Etc.</td> <td>Clothes Washer</td> </tr> <tr> <td>Grease / Oil Separator</td> <td>Dish Washer</td> </tr> <tr> <td>Roof Drain</td> <td>Garbage Disposal</td> </tr> <tr> <td rowspan="3"> <input type="checkbox"/> PIPING RELOCATION: of sanitary lines, drains, and piping without new fixtures. </td> <td>Bidet</td> <td>Laundry Tub</td> </tr> <tr> <td>Other: _____</td> <td>Water Heater</td> </tr> <tr> <td>Fixtures (Subtotal) Column 2</td> <td>Fixtures (Subtotal) Column 1</td> </tr> <tr> <td>OR</td> <td></td> <td>TOTAL FIXTURES</td> </tr> <tr> <td rowspan="2"> <input type="checkbox"/> TRANSFER FEE (\$10.00) </td> <td> Fees by fixture: First 4 fixtures = \$40 Over 4 = \$10/per fixture </td> <td> Fixture Fee Transfer Fee </td> </tr> <tr> <td></td> <td> Hook-Up & Relocation Fee </td> </tr> <tr> <td colspan="2"> Please call 874-8703 with your permit # to schedule inspections! </td> <td> \$40 PERMIT FEE (TOTAL) </td> </tr> </tbody> </table> | Hook-Up & Piping Relocation Maximum of 1 Hook-Up | Column 2 Number Type of Fixture | Column 1 Number Type of Fixture | <input type="checkbox"/> HOOK-UP: to public sewer by those cases where the connection is not regulated and inspected by the local sanitary district. | Hosebib / Sillcock | Bathtub (and Shower) | Floor Drain | Shower (separate) | Urinal | Sink | Drinking Fountain | Wash Basin | Indirect Waste | Water Closet (Toilet) | <input type="checkbox"/> HOOK-UP: to an existing subsurface wastewater disposal system | Water Treatment Softener, Filter, Etc. | Clothes Washer | Grease / Oil Separator | Dish Washer | Roof Drain | Garbage Disposal | <input type="checkbox"/> PIPING RELOCATION: of sanitary lines, drains, and piping without new fixtures. | Bidet | Laundry Tub | Other: _____ | Water Heater | Fixtures (Subtotal) Column 2 | Fixtures (Subtotal) Column 1 | OR | | TOTAL FIXTURES | <input type="checkbox"/> TRANSFER FEE (\$10.00) | Fees by fixture: First 4 fixtures = \$40 Over 4 = \$10/per fixture | Fixture Fee Transfer Fee | | Hook-Up & Relocation Fee | Please call 874-8703 with your permit # to schedule inspections! |
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| | Floor Drain | Shower (separate) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Urinal | Sink | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Drinking Fountain | Wash Basin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Indirect Waste | Water Closet (Toilet) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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BUDERUS

Indirect Fired Domestic
Hot Water Tanks



S, SU, and LT Thermoglaze Single Coil Tanks
SM Thermoglaze Dual Coil Tanks
SST Stainless Steel Single-Coil Tanks

Clean, Pure, Reliable Hot Water

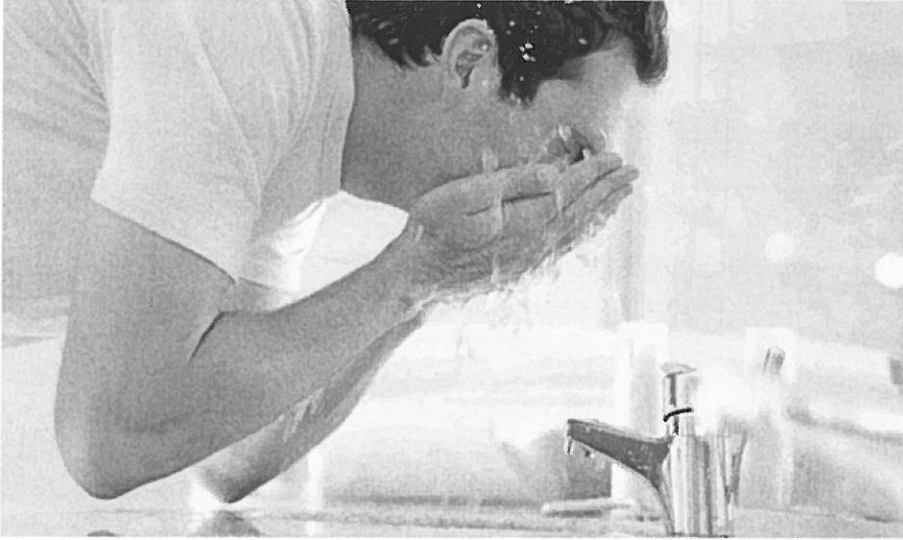


Comfortable. Efficient. Intelligent Heating.

Buderus

The Buderus Hot Water Advantage

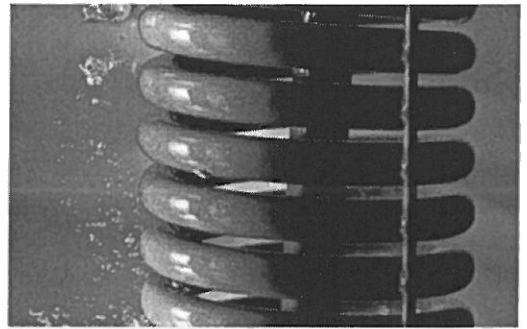
In North America the average household spends around 30% of their energy costs on domestic hot water. Buderus designs its hot water tanks to work more economically and efficiently. Buderus pioneered new methods of producing and storing domestic hot water, so you are assured of greater operating efficiencies, lower fuel consumption and consistent hot water while saving money.



Buderus water tanks are a reliable and clean way to store hot water. From small residences to large commercial operations, there is a Buderus domestic hot water tank that is just right for your application.

Simple Maintenance and Reliable Operation

Buderus domestic hot water tanks offer features that provide for ease of installation, simple maintenance and reliable operation. All Thermoglaze models are equipped with a magnesium anode rod for protection against corrosion, a drain for easy maintenance, and have adjustable screw-on feet for leveling. An easy-access cover aids in cleaning and maintaining the coil and tank interior.



Thermoglaze Tank Features and Benefits
Buderus' patented Thermoglaze® is a ceramic material which is thermally bonded to the internal components of the tank to provide a glass-like coating to protect against the corrosive effects of minerals naturally existing in water. All Thermoglaze tanks are equipped with the following additional features:

- Corrosion Protection – the Buderus Thermoglaze® process and standard magnesium anode rod(s) protect tank interior from corrosion caused by most types of water
- Economical – high density insulation for better temperature maintenance of stored hot water
- Heat exchanger has large surface area for excellent hot water recovery rates

NEW



S and SU Series – Buderus Thermoglaze Single-Coil Tanks

Buderus' four single coil indirect DHW storage tank models S32, SU54, SU80 and SU100 offer easy installation and simple maintenance to provide excellent value at a competitive price.

- All tanks feature an aesthetic white cover design, patented Thermoglaze® enamel interior and magnesium anode rod for optimal service life
- Models SU80 and SU100 have a large front clean out port for easy maintenance and a second magnesium anode rod for extended tank life*
- Screw-on feet enable easy leveling of the tank
- Available capacities 30, 51, 77 and 98 gallons



*Consult Installation and Service Instructions for recommended maintenance

BUDERUS Indirect Fired Domestic Hot Water Tanks

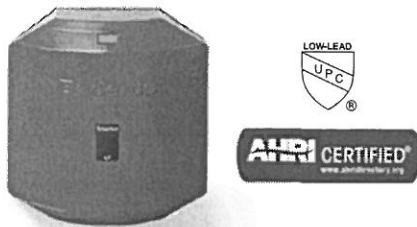


SM Series – Buderus Thermoglaze Dual-Coil Tanks

Buderus' dual coil indirect DHW storage tanks, SM80 and SM100, are designed for solar and high performance applications.

- Tanks have two internal coils for connection to two heat sources such as one solar thermal system and one boiler
- Features a blue or universal white cover design, patented Thermoglaze® enamel interior and magnesium anode rod for optimal service life
- Second magnesium anode rod for extended tank life and a large front clean out port for easy service*
- Screw-on feet enable easy leveling of the tank
- Available capacities 75 and 97 gallons

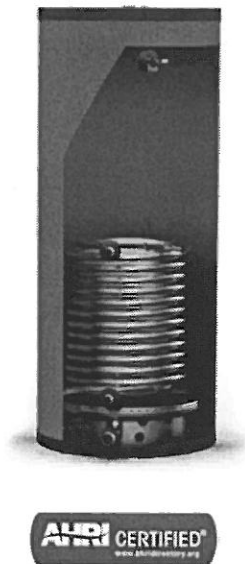
*Consult Installation and Service Instructions for recommended maintenance



LT Series – Buderus Thermoglaze Horizontal Single-Coil Tanks

Short on space? The LT horizontal tanks are designed to fit under Buderus boilers resulting in a smaller footprint.

- Horizontal design for small footprint
- Constant hot water at the turn of the tap
- Available capacities in 42, 52 and 76 gallons



SST Series – Buderus Stainless Steel Single-Coil Tanks

The SST stainless steel indirect hot water tank has a welded and passivated 316L stainless steel interior and a 316L stainless steel single coil heat exchanger. This provides durability and resistance to the corrosive tendencies of domestic water.

- Stainless steel heating coil efficiently transfers high volumes of BTU's from the heat source to domestic water stored in the tank
- Two inches of high density CFC/HCFC-free polyurethane foam with a tested R Value of 13.4 provide economical standby losses
- Available capacities 40, 67, 82 and 113 gallons



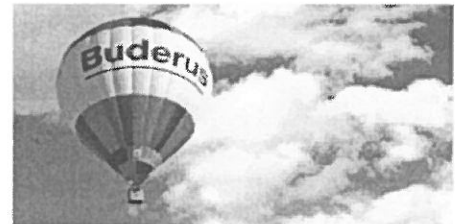
| Configuration | Vertical Single Coil Models | | | | Vertical Dual Coil Models | | | | | | | | Horizontal Single Coil Models | | |
|--|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|------|-------|-------|--------------------------------|------|-------|-------|--------------------------------|--------------------------------|--------------------------------|
| | S32 | SU54 | SU80 | SU100 | SM80 | | | | SM100 | | | | LT160 | LT200 | LT300 |
| Physical Data | | | | | | | | | | | | | | | |
| Tank Capacity, gal | 30.0 | 51.3 | 77.4 | 98.4 | 75.4 | | | | 96.9 | | | | 42.6 | 52.5 | 76.0 |
| Diameter, in. | 21 ³ / ₄ | 21 ³ / ₄ | 26 ³ / ₈ | 26 ³ / ₈ | 26 ³ / ₈ | | | | 26 ³ / ₈ | | | | 25 ³ / ₄ | 25 ³ / ₄ | 25 ³ / ₄ |
| Height, in. | 38 ⁵ / ₈ | 60 ¹ / ₄ | 58 ⁷ / ₈ | 72 ¹ / ₄ | 58 ⁷ / ₈ | | | | 72 ¹ / ₄ | | | | 25 ³ / ₄ | 25 ³ / ₄ | 25 ³ / ₄ |
| Length, in. | - | - | - | - | - | | | | - | | | | 36 ¹ / ₄ | 42 ¹ / ₄ | 57 ³ / ₄ |
| Connection Heat Exchanger Coil, in. | ³ / ₄ | 1 | 1 | 1 | 1 | | | | 1 | | | | 1 | 1 | 1 |
| Connection DHW outlet, in. | ³ / ₄ | 1 | 1 | 1 | 1 | | | | 1 | | | | 1 | 1 | 1 |
| Connection Cold Water Inlet, in. | ³ / ₄ | 1 | 1 | 1 | 1 | | | | 1 | | | | 1 ¹ / ₄ | 1 ¹ / ₄ | 1 ¹ / ₄ |
| Connection Recirculation, in. | ³ / ₄ | ³ / ₄ | ³ / ₄ | ³ / ₄ | ³ / ₄ | | | | ³ / ₄ | | | | ³ / ₄ | ³ / ₄ | ³ / ₄ |
| Approx. Dry Weight, lbs | 160 | 170 | 231.5 | 282 | 260 | | | | 298 | | | | 220 | 247 | 364 |
| Max. DHW Temperature, °F | 203 | 203 | 203 | 203 | 203 | | | | 203 | | | | 203 | 203 | 203 |
| Max. DHW Operating Pressure, psi | 150 | 150 | 150 | 150 | 150 | | | | 150 | | | | 150 | 150 | 150 |
| Standby Heat Loss, °F/h | 1.0 | 0.4 | 0.5 | 0.4 | 0.6 | | | | 0.5 | | | | 0.6 | 0.6 | 0.4 |
| Max. Heat Exchanger Coil Water Temperature, °F | 230 | 230 | 230 | 230 | 230 | | | | 230 | | | | 212 | 212 | 212 |
| Max. Heat Exchanger Coil Pressure, psi | 232 | 232 | 232 | 232 | 232 | | | | 232 | | | | 232 | 232 | 232 |
| Performance Data* | | | | | | | | | | | | | | | |
| Heat Input to Tank, MBH | 88.0 | 84.9 | 119.2 | 143.9 | 112.4 | 78.2 | 178.8 | 156.7 | 169.1 | 87.9 | 235.4 | 202.9 | 76.1 | 83.0 | 126.3 |
| Continuous Rating: (gph) | 137 | 130 | 189 | 218 | 185 | 135 | 298 | 278 | 265 | 153 | 376 | 344 | 122 | 128 | 208 |
| First Hour Rating: (gph) | 165 | 180 | 264 | 312 | 257 | 135 | 363 | 345 | 356 | 153 | 462 | 434 | 163 | 176 | 276 |
| Boiler Water Flow Rate, gpm | 8.0 | 11.4 | 11.4 | 14.0 | 11.4 | 11.4 | 11.4 | 11.4 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 |
| Coil Pressure Drop: ft of Head: | 1.9 | 2.4 | 2.7 | 3.8 | 2.5 | 1.8 | 3.2 | 1.4 | 5.8 | 3.5 | 10.2 | 2.1 | 2.4 | 2.8 | 3.3 |

| Configuration | Stainless Steel Models | | | |
|---|------------------------|------------|-------------|--------------|
| | SST150-40 | SST250-65 | SST300-80 | SST450-119 |
| Physical Data | | | | |
| Tank Capacity, gal | 40 | 67 | 81.5 | 113.4 |
| Diameter, in. | 20 | 24 | 24 | 28 |
| Height, in. | 56 | 60 | 70 | 69 |
| Length, in. | - | - | - | - |
| Connection Heat Exchanger Coil, in. | 1 | 1 | 1 | 1 |
| Connection DHW outlet, in. | 1 | 1.5 | 1.5 | 1.5 |
| Connection Cold Water Inlet, in. | 1 | 1.5 | 1.5 | 1.5 |
| Approx. Dry Weight, lbs (5% higher including packaging) | 105 | 147 | 177 | 213 |
| Max. DHW Temperature, °F | 194 | | | |
| Max. DHW Operating Pressure, psi | 150 | | | |
| Standby Heat Loss, °F/h* | 0.9 | 0.7 | 0.6 | 0.5 |
| Performance Data* | | | | |
| Heat Input to Tank, MBH | 115 | 154 | 171 | 216 |
| Continuous Rating: (gph) | 181 | 263 | 285 | 349 |
| First Hour Rating: (gph) | 208 | 327 | 358 | 459 |
| Boiler Water Flow Rate, gpm | 14 | 14 | 14 | 14 |
| Coil Pressure Drop: ft of Head | 4.5 | 5.7 | 6.1 | 6.5 |

* Performance data tested at 180°F (82.2°C) Boiler Supply Temperature, 58°F (14.4°C) Cold Water Inlet Temperature, 135°F (57.2°C) DHW Outlet Temp

NOTES:

1. All AHRI Certified ratings are in BLUE Boldface type
2. SM80 & SM100 are UPC, USEC and Low-Lead Certified by IAPMO R & T
3. S32, SU54, SU80, SU100, LT160, LT200, LT300 have UPC and Low-Lead Certification by IAPMO Research & Testing
4. Ratings in BLACK are outside the scope of AHRI-IWH Certification Program



A Tradition of Excellence

The world leader in heating technologies since 1825, Buderus produced the first low-temperature hydronic heating systems. Today, Buderus products are acknowledged as the global standard in high-efficiency, low emissions hydronic heating. All Buderus products are designed to meet strict safety and environmental regulations.

Buderus boilers are quick and easy to install and will outlast and outperform virtually any other hot water heating system. They are designed for easy access and service. With appropriate maintenance, Buderus boilers deliver the highest efficiencies throughout the lifespan of operation. Buderus is a member of Bosch Thermotechnology.

