

SERVICES COMMITTEE MEETING

Monday, December 10, 2012

6:00 p.m. – 7 p.m.

HAMPDEN TOWN OFFICE

1. Minutes of October 9, 2012
2. Old Business
 - A. Papermill Road Recreation Area - Update
 - B. Old Hampden Academy – Recreation Dept. use
 - C. Library Furnace Bids
3. New Business
4. Public Comment
5. Committee member comments

SERVICES COMMITTEE MEETING MINUTES
TUESDAY, OCTOBER 9, 2012

Attending:

Councilor Jeremy Williams	Kurt Mathies, Recreation Director
Councilor Jean Lawlis	Jeremy Jones, resident
Councilor Tom Brann	Sue Lessard, Town Manager
Councilor Shelby Wright	

The Committee met at 5:30 p.m. to car pool to the Papermill Road Recreation Area for a walk-through of the site. Following the walk through, the Committee will reconvened at the Town Office at 7:15 following the conclusion of the Communications Committee meeting.

1. Minutes of September 10, 2012 – The minutes were reviewed by the committee and approved without objection.
2. Old Business
 - A. Papermill Road Recreation Area – Those in attendance discussed the walk through of the park and the potential for it to be better utilized by residents. It was the consensus of those in attendance that volunteers could be very helpful in ‘rejuvenating’ the park. Motion by Councilor Williams, seconded by Councilor Wright to ask resident Jeremy Jones to be a point of contact for or chair an ad hoc committee of volunteers for the promotion/redevelopment of the Papermill Road Recreation Area. Unanimous vote. In order to encourage participation in this effort, the Town needs to find as many ways as possible to get the message out that this project is underway.
 - B. Old Hampden Academy – Recreation Dept. use – Recreation Director Kurt Mathies showed the Committee a list of programs that he is working on for operation in the Skehan Center. It is a work in progress in terms of determining revenue estimates for some of the programs at this point. The Committee encouraged the use of donated items and funds, matching pledges, and volunteers when

possible. Councilor Williams requested a spreadsheet format for programs/participants/estimated revenues. He also indicated that some furniture may be available from his employer. Both Councilors Williams and Lawlis reiterated the importance of creating a facility that could be self-sustaining. More information on programs and revenues will be discussed at the next meeting.

3. New Business
4. Public Comment – Jeremy Jones stated that he wanted the use of the Skehan Center by the Recreation Department to be self-sustaining.
5. Committee member comments – Councilor Williams stated that the long-term future use of the Skehan Center would depend on making it self-sustaining.

The meeting was adjourned at 8:05 p.m.

Respectfully submitted,

Susan Lessard
Town Manager

COMMITMENT & INTEGRITY
DRIVE RESULTS

One Merchants Plaza | Suite 501
Bangor, Maine 04401
www.woodardcurran.com

T 800.564.2333
T 207.945.5105
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TOWN OF HAMPDEN
EDYTHE L. DYER COMMUNITY LIBRARY BOILER REPLACEMENT
PRE-BID SITE WALK – BOILER SYSTEM REQUIREMENTS
September 27, 2012, 10:00 A.M.

- Model EK-2 oil fired boiler by Energy Kinetics with gross input of 240 MBH and net output of 206 MBH. Verify boiler size through Energy Kinetics dealer based on Owner's historical fuel data. Provide next larger boiler size if recommended through dealer analysis.
- Internal bypass pump for shock protection and corrosion control.
- Outdoor reset control through cold start operation.
- 40-gallon indirect water heater with boiler post purge.
- Outside combustion air kit and PVC duct system per Energy Kinetic's recommendations.
- Tiger Loop® oil de-aerator and filter kit.
- Provide piping changes for a primary/secondary piping connection with primary pump control through "System Manager". Existing main circulation pumps will become the secondary pumps. Provide closely-spaced tees at least one pipe size larger than mains.
- Provide boiler drain, service valves for boiler and pumps, and safety controls (including low water cut-off).
- Contact Information:
 - Energy Kinetics
 - Jim Pike, Territory Manager
 - Energy Kinetics
 - 361 Brunswick Street
 - Old Town, ME 04468
 - Phone: 207-827-0204
 - Fax: 207-827-3756
 - Cell: 207-266-4199
 - E-mail: jpike@energykinetics.com
 - Website: www.energykinetics.com
 - Corporate Office: 1-800-323-2066, Ext. 408
 - Corporate Fax: 1-800-735-2068

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TOWN OF HAMPDEN
EDYTHE L. DYER COMMUNITY LIBRARY BOILER REPLACEMENT
BOILER SYSTEM REQUIREMENTS - ADDENDUM 1

October 5, 2012, 10:00 A.M.

- Replace fuel oil piping from oil tanks to proposed replacement boiler in accordance with State of Maine Oil and Solid Fuel Board requirements.
- Coordinate with local Oil and Solid Fuel Board representative to determine if fuel oil tanks require upgrades for compliance.
- Replace existing zone valves to allow proper purge control in accordance with Energy Kinetics control system operating requirements.
- Note that the basement concrete wall extends to the underside of the first floor decking. The rim joist is bolted onto the concrete wall so that a cored hole in the concrete will be needed for the combustion air vent.
- Attached Energy Kinetics drawings SYS-05-013, ERC_10-15-20, and 10-0412R-5 are generic examples of primary/secondary requirements, zone valve zoning, and circulator zoning and do not reflect actual or complete system requirements. Coordinate with Energy Kinetics representative for details of a complete operational system.

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TOWN OF HAMPDEN

EDYTHE L. DYER COMMUNITY LIBRARY BOILER REPLACEMENT

BOILER SYSTEM REQUIREMENTS - ADDENDUM 2

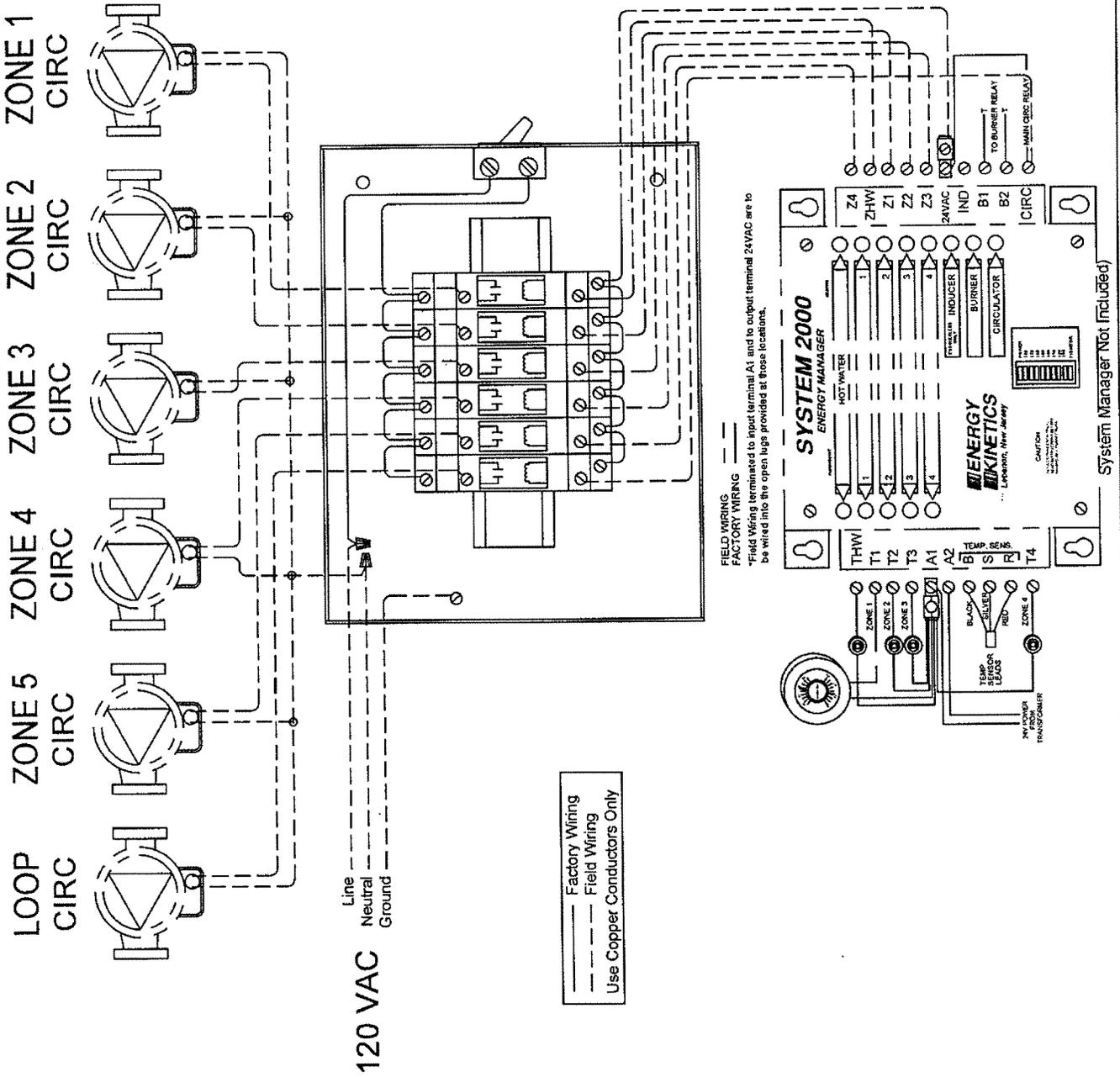
October 15, 2012



- Bid date has been extended from Tuesday, October 16 at 10:00 AM to Tuesday, October 23 at 10:00 AM.
- Provide a triple listed mixing valve equivalent to the Watts MMV series.
- Provide a thermal expansion tank, equivalent to Therm-x-trol Model ST-5, at the indirect water heater.

Five Zone Relay Kit

(Uses 6 relays, 5 for heat zones and one for a loop circulator if required)
10-0412R-5

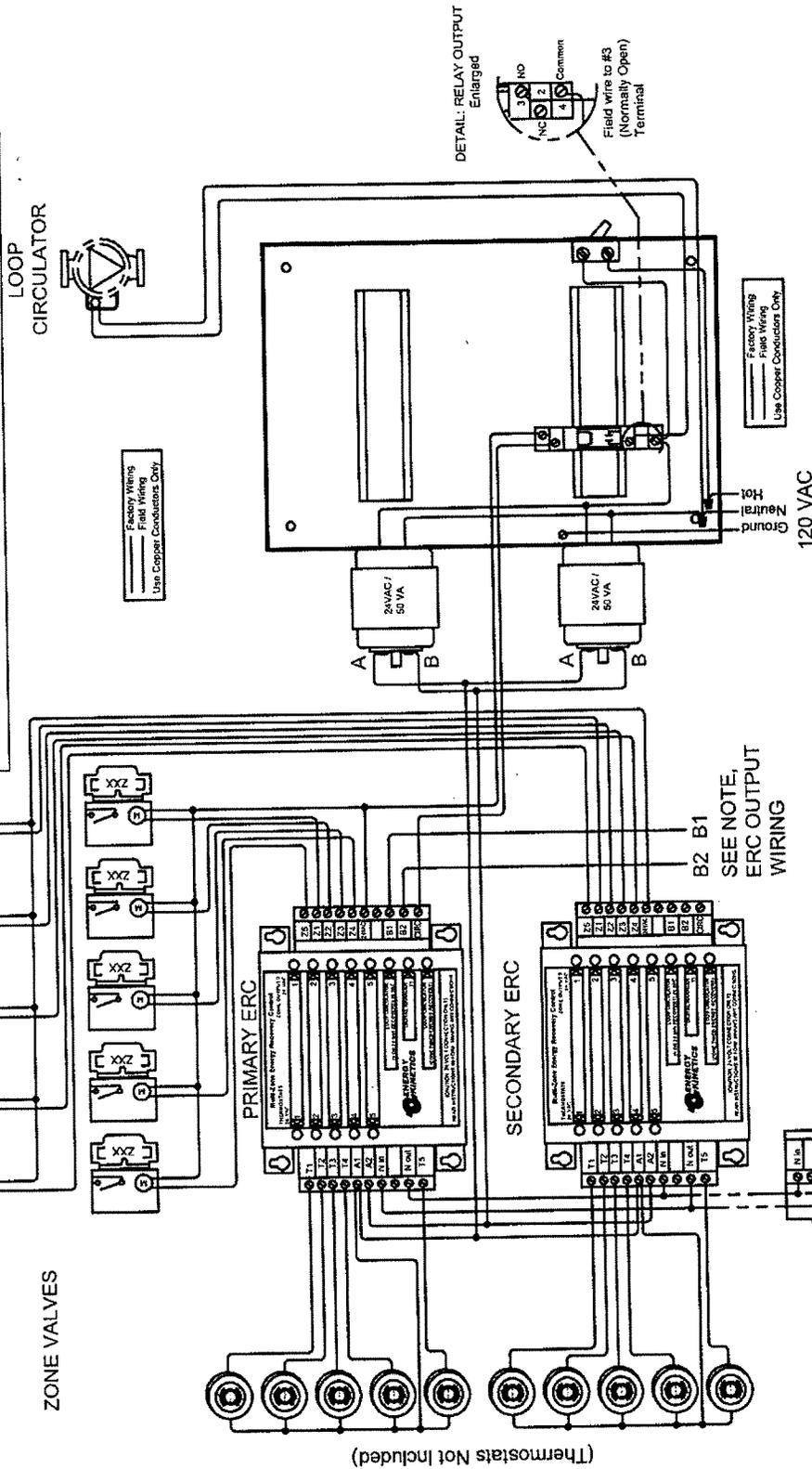


Ten Zone (and up) ERC's w/Zone Valves

(Uses one Relay to pull in a loop circulator)

10-0418E-QC2, QC3, QC4

Use 2-wire (No End Switch) Zone Valves
Use 4 wire (w/End Switch) Zone Valves for Air Handlers or additional Loop Circulators.



NOTE, ERC OUTPUT WIRING:

A) For Single Boiler injecting into a Loop:
Connect B1-B2 on the ERC to A1-TX (Injection Zone Input) on the Digital Manager.

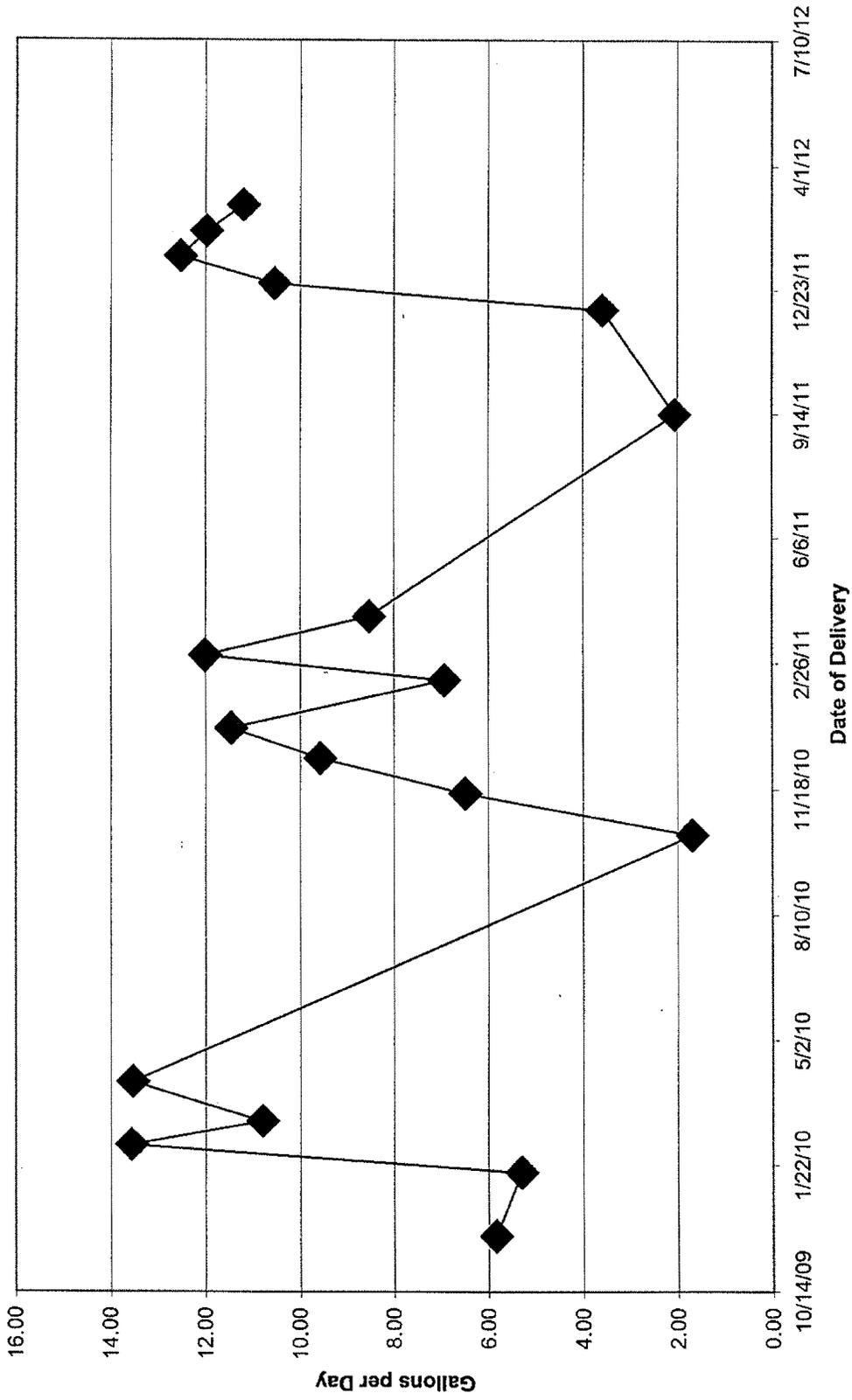
B) For Multi Boilers using a Tekmar Control:
Connect B1-B2 on the ERC to Boiler Demand 1 & 2 on the Tekmar (Note: The Tekmar Control's Boiler Demand requires voltage applied across the Boiler Demand terminals. It is recommended that an independent 24VAC transformer be wired in series between the ERC and the Tekmar to supply the required voltage.

SEE NOTE, MULTIPLE ERC INPUT WIRING:

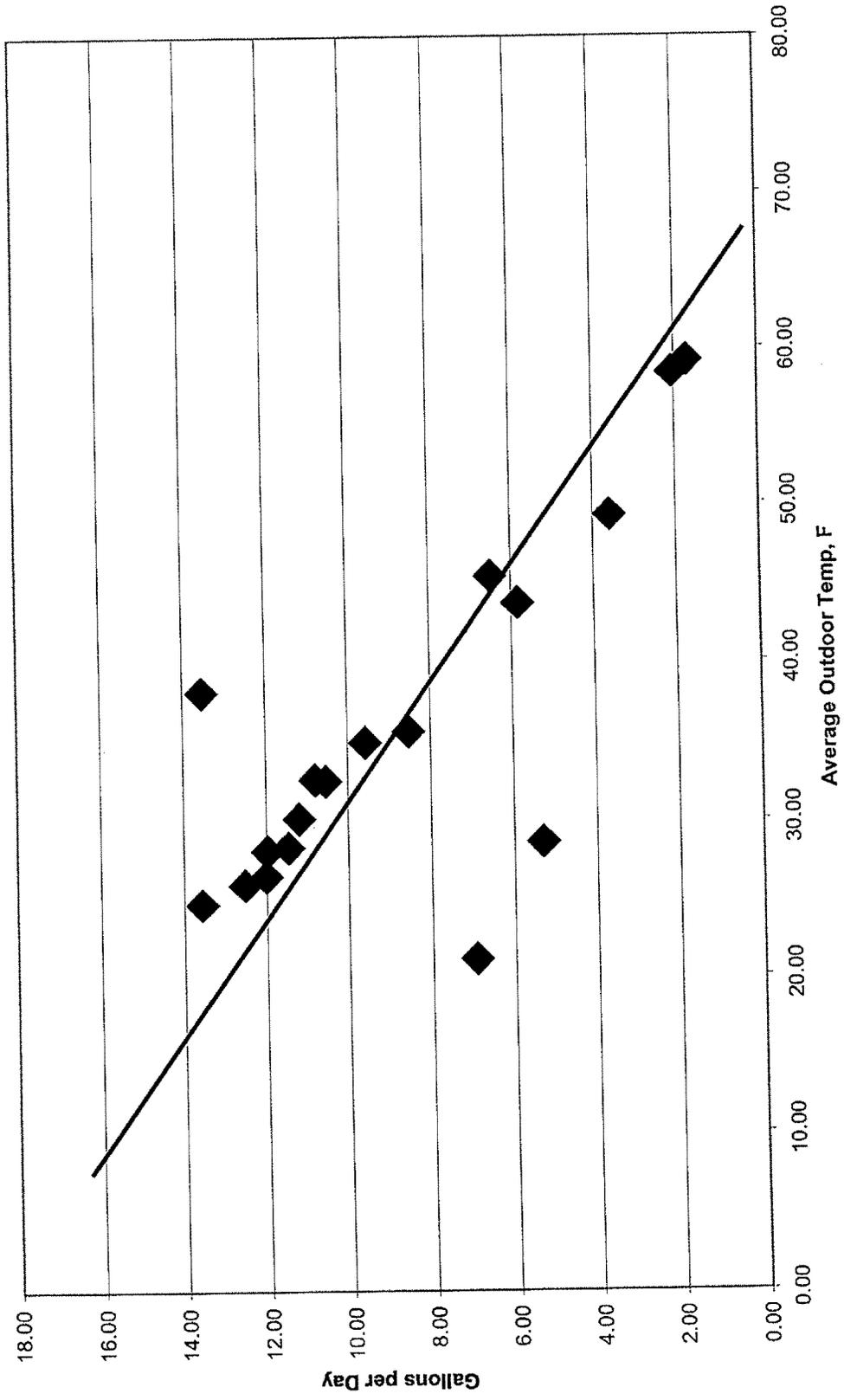
NOTE, MULTIPLE ERC INPUT WIRING:
When installing 15 & 20 zone ERC's:

1. Wire "N in(s)" on all Secondary ERC's in parallel to "N out" on the Primary ERC
2. Wire "N out(s)" on all Secondary ERC's in parallel to "N in" on Primary ERC.
3. Wire outputs of 24VAC/50VA transformers in parallel as shown to A1 & A2 on all ERCs

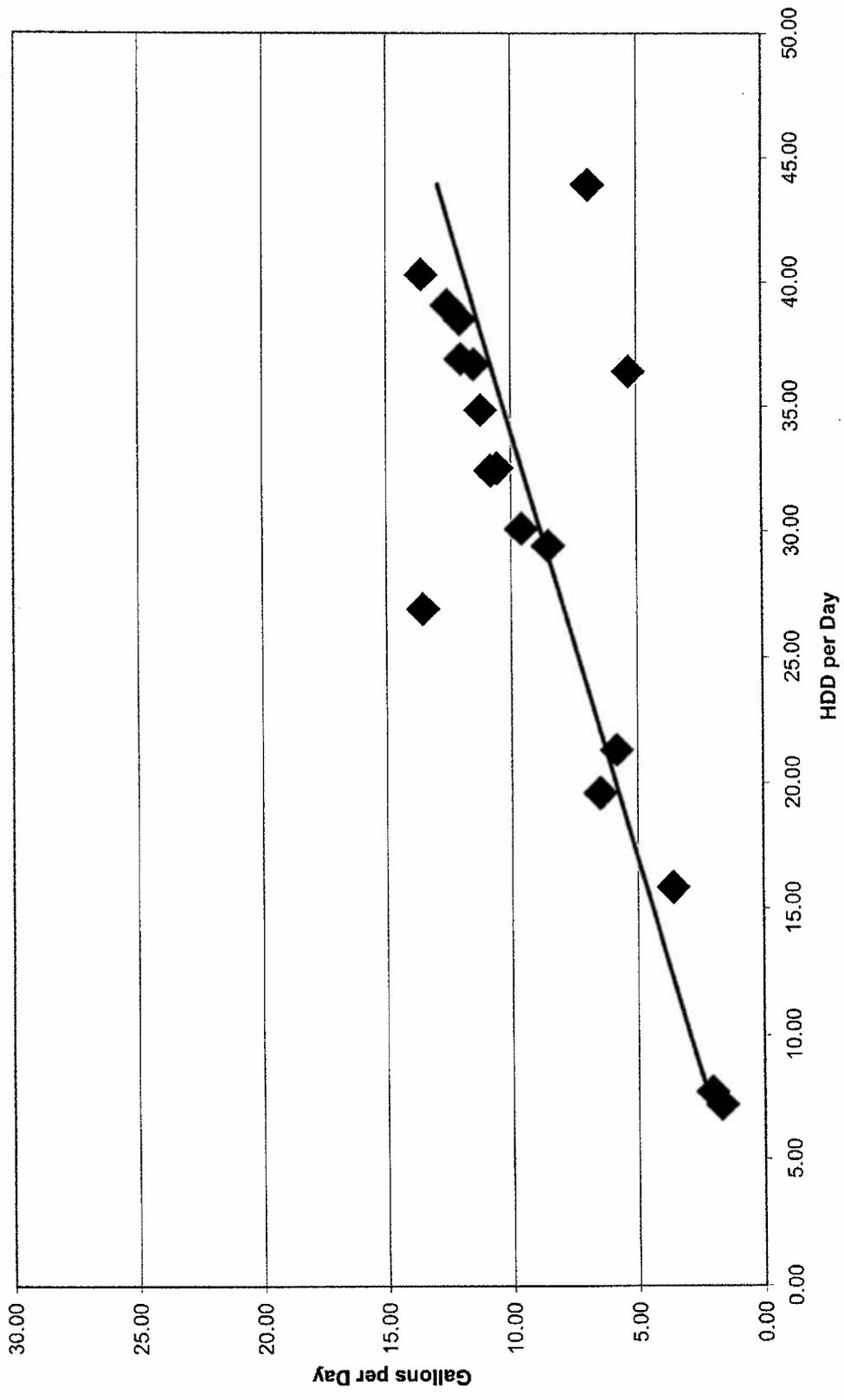
Hampden Library



Hampden Library



Hampden Library



Dealer name
 Hampden Library
 Hampden, ME 04444

Existing equipment:

	Station	Basis	Gal	HDD	KFactor	Years	Gal/Yr	HDD/Yr
Before	726079	65.00	4890.2	17,622.50	3.60	2.35	2,082.76	7,505.50

Enter Indoor Temp
 Enter Design Day Temp

65	F
-10	F

Calculate Max Burn on Design Day

20.81 Gal/Day
 0.87 Gal/Hour
 121,405 Btu/Hour

Based on the fuel delivery and weather data, one EK1 would be needed.

This report and any associated information are not contracts, guarantees of savings, or warranties of any kind and are not intended to be used as such. This information consists of ESTIMATES only and is not to be relied upon. Many field variables exist which could significantly impact the savings estimate. The savings estimate is dependent upon, among other things, an appropriate characterization of the existing heating equipment, weather conditions, performance characteristics and fuel consumption, infiltration losses, and lifestyle operational characteristics of the occupants.

Date	Gallons	Day	Gal/Day	HDD/Day	Avg Temp	Units/Day	HDD
10/19/09				5.83	21.31	43.69	745.90
11/27/09	227.5	39	5.83	21.31	43.69	5.83	745.90
1/16/10	264.6	50	5.29	36.41	28.59	5.29	1820.50
2/7/10	298.2	22	13.55	40.34	24.66	13.55	887.50
2/26/10	205.1	19	10.79	32.45	32.55	10.79	616.60
3/30/10	432.8	32	13.53	26.93	38.07	13.53	861.90
10/13/10	332.8	197	1.69	7.19	59.15	1.69	1416.10
11/15/10	214.0	33	6.48	19.60	45.40	6.48	646.70
12/13/10	267.9	28	9.57	30.12	34.88	9.57	843.30
1/6/11	274.9	24	11.45	36.72	28.28	11.45	881.30
2/13/11	263.2	38	6.93	43.91	21.09	6.93	1668.50
3/5/11	240.1	20	12.01	38.56	26.45	12.01	771.10
4/5/11	264.2	31	8.52	29.44	35.56	8.52	912.70
9/14/11	332.5	162	2.05	7.70	58.39	2.05	1239.70
12/7/11	301.4	84	3.59	15.84	49.25	3.59	1330.40
12/28/11	221.2	21	10.53	32.55	32.45	10.53	683.60
1/19/12	275.4	22	12.52	39.10	25.90	12.52	860.30
2/8/12	239.4	20	11.97	36.94	28.07	11.97	738.70
2/29/12	235.0	21	11.19	34.89	30.12	11.19	697.70

Description of operation:

Heat Zone: A heat zone thermostat calls the System Manager which starts the boiler circulator and fires the burner. The boiler circulator preheats the boiler, the injection pipes and tees, and the boiler side of the plate heat exchanger. Once the boiler return reaches operating temperature the Manager starts the circulator for the calling heat zone, heating the loop and supplying heat for the zone. When the heat zone thermostat call is satisfied, the burner stops firing but the boiler circulator and zone circulator will continue to operate until the heat left in the boiler and primary loop is purged to the last zone that called.

Hot Water: The hot water tank thermostat calls the System Manager, which starts the boiler circulator and fires the burner. The boiler circulator preheats the boiler, the injection pipes and tees, and the boiler side of the plate heat exchanger. Once the boiler return reaches operating temperature the Manager starts the domestic hot water circulator (the Smart Pump), circulating cold domestic water from the tank through the plate heat exchanger, and back into the top of the tank. When the hot water tank thermostat is satisfied, the burner stops firing but the boiler circulator and Smart Pump circulator will continue to operate until the heat left in the boiler is purged to the hot water storage tank.

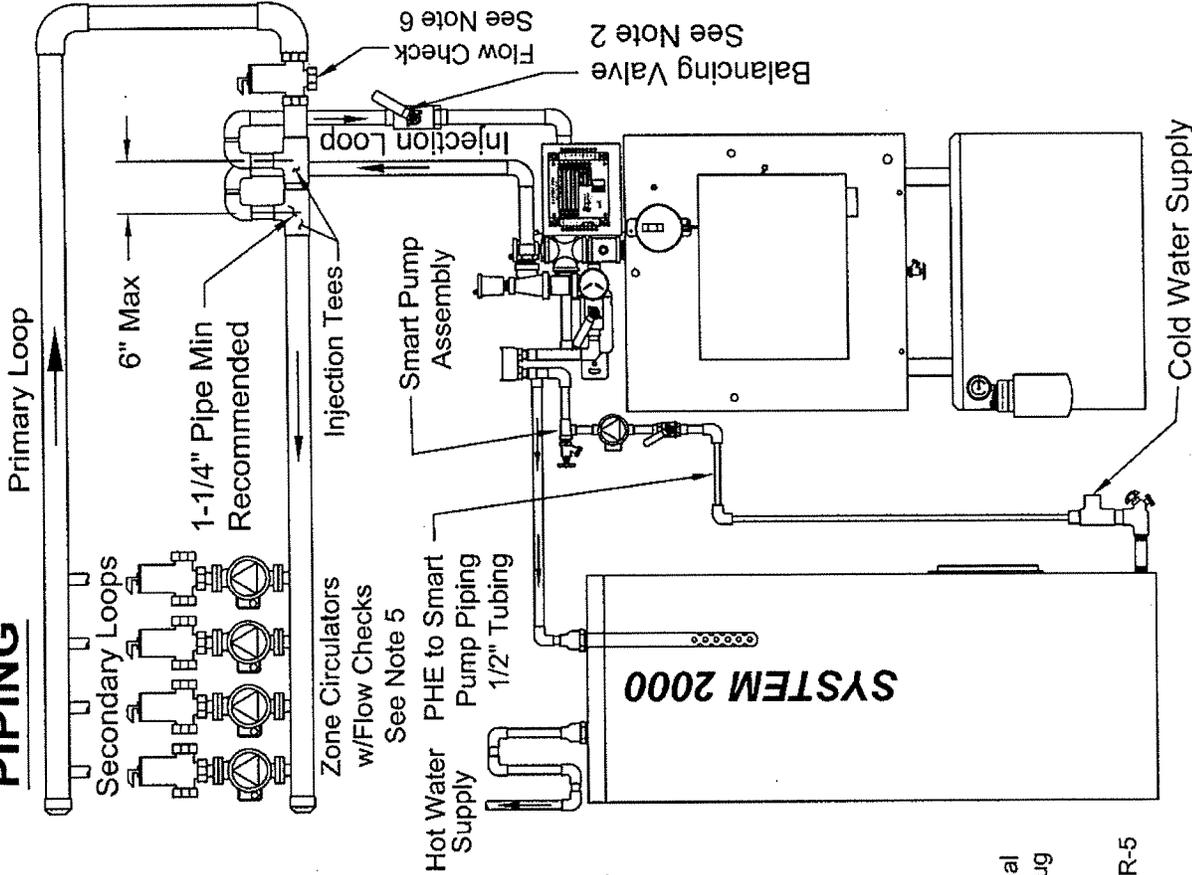
Notes:

1. Use with a Heat and Hot Water Boiler with the plate heat exchanger mounted in the boiler bypass. If you are not making domestic hot water, refer to drawing SYS-05-010.
2. Install a balancing valve in the return of the injection loop to adjust injection piping return temperature. Adjust the return balancing valve for a minimum of 130°F return temperature when all heating zones are operating.
3. If boiler is installed in unheated space, insulate injection piping and tees to reduce heat loss to unheated space.
4. Existing large water volume systems should use a boiler protection kit (10-0615 for EK-1 or 10-0616 for EK-2) and 8-Way treatment. See drawing SYS-05-008.
5. Size the zone circulators for appropriate primary/secondary loop flow.
6. Install a flow check on system return before the injection tees. The flow check will prevent gravity flow backwards to system radiation during hot water production.

Zone Wiring:

1. Connect hot water tank thermostat to THW and A1.
2. Connect domestic hot water circulator (Smart Pump) black lead to "HW CIRC" terminal on 120V terminal block in system junction box. Connect the white lead to any open lug on neutral terminal block.
3. Connect heating thermostats to Tx and A1.
4. Control zone circulators, use Energy Kinetics Zone Relay Kit Part Numbers: 10-0412R-5 (up to 5 zone circs), 10-0412R-10 (up to 10 zone circs), 10-0412R-15 (up to 15 zone circs) refer to the Energy Kinetics Energy Recovery Control & Zone Relay Kits.

PIPING



This drawing provided for reference only, design subject to change. Review application to determine suitability and compliance with code requirements.



Molasses Hill Road
Lebanon, NJ 08833
1-800-323-2066

Primary/Secondary Loop w/ Heat & Hot Water
Using Zone Circs & Post Purge to Last Zone Calling

DRAWN BY: J.Szwed
REV: A
DATE: 11/09/05
DWG. NO.

SYs-05-013-rev3.dwg

SYs-05-013

Library Fuel Usage
2009/10 - 2011/2012

2009-2010	
216.8	10/19/2009
227.5	11/27/2009
264.6	1/16/2010
205.1	2/26/2010
298.2	2/7/2010
242	3/30/2010
1454.2	
2010-2011	
264.2	4/5/2011
240.1	3/5/2011
263.2	2/13/2011
274.9	1/6/2011
267.9	12/13/2010
214	11/15/2010
332.8	10/13/2010
1857.1	
2011-2012	
332.5	9/14/2011
301.4	12/7/2011
221.2	12/28/2011
275.4	1/19/2012
239.4	2/8/2012
235	2/29/2012
190.8	3/23/2012
1795.7	

For Residential, Commercial and Institutional Applications

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

Series MMV

Thermostatic Mixing Valves

Sizes: ½" – 1" (15 – 25mm)

Series MMV Thermostatic Mixing Valves maintain and limit mixed hot water to a desired, selectable temperature. The MMV series can be set to any temperature between 80°F and 120°F with flow rates as low as 0.5 gpm and as high as 12 gpm (refer to capacity chart on back). This mixing valve series is listed under ASSE 1017 for valves used in hot water source applications, ASSE 1069 for single-pipe, tempered water applications and ASSE 1070 for valves used in individual or multiple fixture applications and also listed IAPMO cUPC.

The MMV-M1 uses a double throttling design to control both the hot and cold water supply to the mixed outlet. The superior flow characteristics of this valve provide accurate temperature control ($\pm 3^\circ\text{F}$) with low pressure drop across the rated flow range. As an added feature, the MMV-M1 series incorporates integral inlet filter washers and check valves in both the hot and cold water inlets to protect against cross flow.

The MMV-M1 is available with either union thread (-UT), union solder (-US), CPVC, (-QC) Quick-Connect or PEX end connectors.

Features

- Bronze body construction
- Solid wax hydraulic principle thermostat assures dependable mixing of hot and cold water
- Thermostat controls both hot and cold water
- Solder, threaded, PEX or CPVC, Quick-Connect end connection models available
- Adjustment cap with locking feature
- ASSE 1017 listed
- ASSE 1069 listed
- ASSE 1070 listed
- IAPMO cUPC listed
- Integral filter washers and check valves

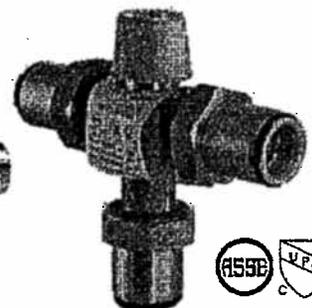
Specifications

A Thermostatic Mixing Valve shall be installed on the hot water supply to fixture. The valve shall be ASSE 1017, ASSE 1069, ASSE Standard 1070 and IAPMO cUPC listed and control the temperature of the hot water. It shall have a bronze body and shall include integral filter washers and check valves and an adjustment cap with locking feature. The valve shall be provided with solder (-US), threaded (-UT), CPVC, (-QC) Quick Connect or PEX union connections. The valve shall be a Watts Regulator Company Series MMV.

Triple Listed!
ASSE 1017
ASSE 1069 & ASSE 1070



MMV-US-M1



MMV-QC-M1



Applications

The MMV-M1 Thermostatic Mixing Valves are ideal for supplying sinks, baths, showers or lavatories with tempered water. The MMV-M1 valves can be used in residential, commercial and institutional environments. These thermostatically modulated mixing valves can be used anywhere preset water temperature is required for point-of-use installations such as in homes, schools, restaurants, hospitals, beauty salons, and public restrooms. The MMV-M1 is provided with an adjustment cap that includes a locking feature.

The MMV-M1 valves should be used prior to the fixture to reduce the hot water supply to a safe temperature.

WARNING!

When used in an ASSE 1017 application at the hot water source, the Watts Thermostatic Mixing Valve Series MMV cannot be used by itself to control final temperature at fixtures where ASSE Standard 1016-96 or ASSE Standard 1070 listed devices are required. Such use may result in severe bodily injury (i.e. scalding or chilling) and/or death. Additional ASSE Standard 1016-96, ASSE 1069 or ASSE Standard 1070 listed devices, such as Watts Series L111, USG or MMV, should be used at fixtures to prevent possible injury.

Recirculation systems should recirculate water at temperatures over 140°F to reduce the risk of bacterial growth in the piping. This valve should not be used to achieve these elevated temperatures. This valve can be used at fixtures in conjunction with recirculation systems to reduce the system's hot water to a safe temperature at the point of use.

IMPORTANT!

Water temperatures in excess 110°F (43°C) are dangerous and may cause scalding, severe injury or death! This valve can be adjusted to deliver water at temperatures exceeding 110°F (43°C). Consequently, when used in an ASSE 1016-96, ASSE 1069 or ASSE 1070 application, the installer must check the mixed water outlet temperature at the point of use and adjust the Watts Thermostatic Mixing Valve Series MMV to ensure delivery of water at a safe temperature not exceeding 110°F (43°C). Mechanical valves are not fail-safe. Due to the effects of various water conditions, periodic verification of outlet water temperature is required.

Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.

WATTS®

Materials

Body:	Bronze
Disc:	Stainless steel
Thermostat Assembly:	Copper
O-rings:	Buna-N; EPDM
Pistons:	Udel-P1700
Springs:	Stainless Steel

Pressure — Temperature — Flow Rate

Minimum Supply Pressure Static: 30psi (207 kPa)

Inlet Temperatures: hot inlet, 120°F – 180°F (49°C – 82°C),
cold inlet, 39°F – 85°F (4°C – 29°C)

Hot Water Inlet to Outlet Differential Temperature: 5°F (3°C)
above set point

Temperature Out: Field range: 80°F – 120°F (27°C – 49°C), adjust-
able. Accurate within ±3°F (1.7°C)

Maximum Temperature: 200°F (93°C)

Maximum Pressure: 150psi (10.3 bar)

Minimum Flow: 0.5 gpm (1.9 lpm) @ 0.8psi (0.55 kPa)†

Maximum Flow: 20 gpm (76 lpm) @ 125psi (862 kPa)†

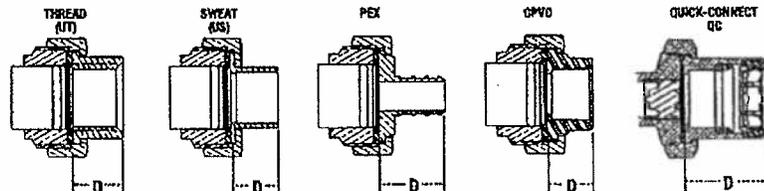
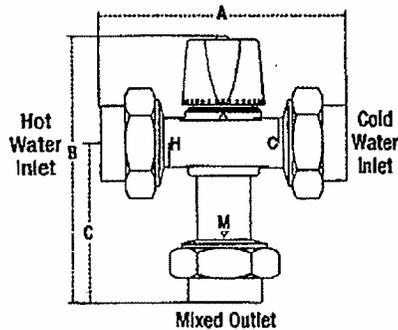
Max. Pressure Differential between Hot & Cold Water Supplies: 25%



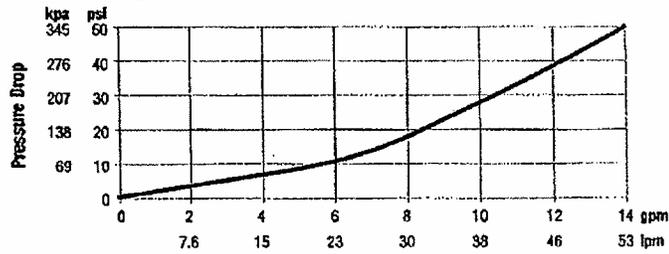
Listing: ASSE 1017, ASSE 1069, ASSE 1070 and IAPMO cUPC

† When tested in accordance with ASSE 1017, ASSE 1069 & ASSE 1070.

Dimensions — Weights

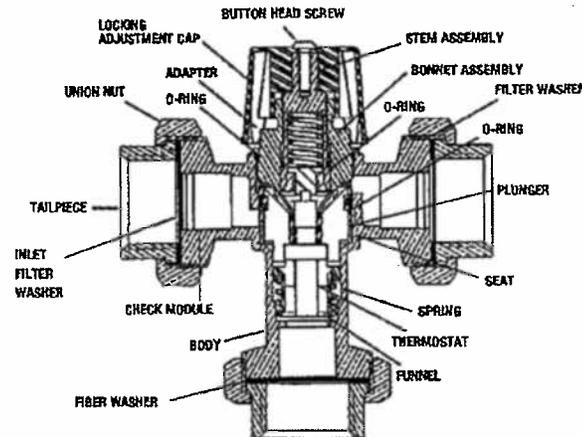


Capacity*



Flow curves are for reference. Actual flows may vary depending on system temperatures and/or pressures.
*Flow curve with integral inlet filters and check valves

Basic Construction



SIZE (DN)		MODEL	DIMENSIONS								WEIGHT	
in.	mm		A		B		C		D		lbs.	kg.
1/2	15	MMV-UT-M1	4 1/4	124	5 1/8	137	3 1/8	80	1/2	13	1.5	.68
3/4	20		4 3/4	124	5 1/8	137	3 3/8	80	5/16	14	1.6	.73
1	25		5 1/8	135	5 3/4	143	3 3/4	86	1 1/16	17	1.6	.73
1/2	15	MMV-US-M1	4 13/16	123	5 3/4	137	3 1/4	80	1/2	13	1.5	.68
3/4	20		5 1/8	135	5 3/4	143	3 3/8	86	3/4	19	1.6	.73
1	25		5 13/16	148	5 7/8	149	3 5/8	92	1 1/16	23	1.6	.73
1/2	15	MMV-PEX-M1	5 1/4	133	5 9/16	142	3 3/8	85	5/8	1	1.5	.68
3/4	20		5 1/2	140	5 1 1/16	145	3 1/8	88	3/4	19	1.6	.73
1	25		5 7/8	149	5 3/4	150	3 3/8	93	1 1/16	2	1.6	.73
1/2	15	MMV-CPVC-M1	4 3/4	121	5 1/8	136	3 1/8	79	1/2	13	1.5	.68
3/4	20		5 1/4	133	5 9/16	142	3 3/8	85	3/4	19	1.6	.73
1	25		5 1 1/16	144	5 1 1/16	147	3 3/8	90	1 1/16	23	1.6	.73
1/2	15	MMV-QC-M1	6 5/8	168	6 1/4	159	4	102	1 1/2	38	2.17	.98
3/4	20		6 1 1/16	177	6 1/16	163	4 1/8	106	1 1 1/16	42	2.88	1.31
1	25		7 1/8	181	6 1/2	165	4 1/4	108	1 3/4	44	3.65	1.66



A Watts Water Technologies Company



ISO 9001-2000
CERTIFIED

USA: 815 Chestnut St., No. Andover, MA 01845-8098; www.watts.com
Canada: 6435 North Service Rd., Burlington, ONT. L7L 5H7; www.wattscanada.ca

ES-MMV 1004

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9/19/2012



Huntley Oil Company
740 Main Rd North
Hampden, Maine 04444

Re: **Request for Proposals/Invitation to Bid**
Edythe L. Dyer Community Library Boiler Replacement, Town of Hampden, Maine

Dear Steve:

You are invited to attend a Pre-Bid Site Walk at the Edythe L. Dyer Community Library located at 269 Main Road North, Hampden, Maine, on September 27, 2012, at 10:00 A.M. local time. A grant has been secured for the replacement of the existing #2 Fuel hot water boiler in the basement of the facility. Proposals from qualified mechanical contractors will be accepted at the office of Woodard & Curran, One Merchants Plaza – Suite 501, Bangor, Maine 04401, until 10:00 A.M. local time on October 16, 2012.

The Work involves the removal and proper disposal of the existing boiler and associated piping, electrical, and controls. The work also includes installation of a new boiler of similar size and fuel in the same location as existing with a new indirect water heater to replace the tankless coil. The distribution system is believed to be in good condition, and removal of the various systems will be limited to just that required to remove and replace the existing boiler. The Contractor will be responsible for start-up procedures to ensure the new equipment is operating and controlled as intended. As an additional alternate, the Contractor may propose removal of the existing hot water heater which is no longer in use.

A more detailed discussion of the work and the opportunity to observe the project area will occur at the pre-bid site walk. Contractors shall coordinate any other site visits with Debbie Lozito, Library Director (862-3550).

The schedule of the work requires substantial completion of the boiler replacement within 30 calendar days of Notice to Proceed. Sequence of the work shall be developed by the Contractor to minimize the period when the Library is without heat and hot water. Coordinate with the Library and Town staff to avoid unnecessary impact to the normal operation of the facility. Pending availability of funds, it is the Owner's intent to issue a Notice of Intent to Award within 15 days of the opening of the proposals in an effort to expedite the work.

The grant funding for the projects has no specific wage requirements and bonding will not be required.

Proposals shall include technical specifications for the boiler system proposed to be installed and a separate price proposal. Enclose both in a single envelope labeled, "Edythe L Dyer Library Boiler Replacement Proposal". Review and acceptance of proposals will be based on quality and price. Quality of the system will be measured based on history of performance, warrantee, and availability of local parts and service. Our assessment of the proposal will also consider impact to the existing facilities and ease with which the proposed system can be installed in the facility. The evaluation of the proposals will be completed by Woodard & Curran and recommendation made to the Owner within 5 days of the submission of bids.

Sincerely,

WOODARD & CURRAN INC.



Devon Carter, PE, LEED AP
Project Engineer

DLC/jiv
213357.00 007

9/19/2012



Mechanical Services
72 Freedom Parkway
Hermon, Maine 04401

Re: Request for Proposals/Invitation to Bid
Edythe L. Dyer Community Library Boiler Replacement, Town of Hampden, Maine

Dear Peter:

You are invited to attend a Pre-Bid Site Walk at the Edythe L. Dyer Community Library located at 269 Main Road North, Hampden, Maine, on September 27, 2012, at 10:00 A.M. local time. A grant has been secured for the replacement of the existing #2 Fuel hot water boiler in the basement of the facility. Proposals from qualified mechanical contractors will be accepted at the office of Woodard & Curran, One Merchants Plaza – Suite 501, Bangor, Maine 04401, until 10:00 A.M. local time on October 16, 2012.

The Work involves the removal and proper disposal of the existing boiler and associated piping, electrical, and controls. The work also includes installation of a new boiler of similar size and fuel in the same location as existing with a new indirect water heater to replace the tankless coil. The distribution system is believed to be in good condition, and removal of the various systems will be limited to just that required to remove and replace the existing boiler. The Contractor will be responsible for start-up procedures to ensure the new equipment is operating and controlled as intended. As an additional alternate, the Contractor may propose removal of the existing hot water heater which is no longer in use.

A more detailed discussion of the work and the opportunity to observe the project area will occur at the pre-bid site walk. Contractors shall coordinate any other site visits with Debbie Lozito, Library Director (862-3550).

The schedule of the work requires substantial completion of the boiler replacement within 30 calendar days of Notice to Proceed. Sequence of the work shall be developed by the Contractor to minimize the period when the Library is without heat and hot water. Coordinate with the Library and Town staff to avoid unnecessary impact to the normal operation of the facility. Pending availability of funds, it is the Owner's intent to issue a Notice of Intent to Award within 15 days of the opening of the proposals in an effort to expedite the work.

The grant funding for the projects has no specific wage requirements and bonding will not be required.

Proposals shall include technical specifications for the boiler system proposed to be installed and a separate price proposal. Enclose both in a single envelope labeled, "Edythe L Dyer Library Boiler Replacement Proposal". Review and acceptance of proposals will be based on quality and price. Quality of the system will be measured based on history of performance, warrantee, and availability of local parts and service. Our assessment of the proposal will also consider impact to the existing facilities and ease with which the proposed system can be installed in the facility. The evaluation of the proposals will be completed by Woodard & Curran and recommendation made to the Owner within 5 days of the submission of bids.

Sincerely,

WOODARD & CURRAN INC.

A handwritten signature in cursive script, appearing to read 'Devon Carter', is written over the typed name.

Devon Carter, PE, LEED AP
Project Engineer

DLC/jiv
213357.00 007

9/19/2012



Penobscot Temperature Controls, Inc
54 Nadine's Way
Hampden, Maine 04444

Re: **Request for Proposals/Invitation to Bid**
Edythe L. Dyer Community Library Boiler Replacement, Town of Hampden, Maine

Dear Dana:

You are invited to attend a Pre-Bid Site Walk at the Edythe L. Dyer Community Library located at 269 Main Road North, Hampden, Maine, on September 27, 2012, at 10:00 A.M. local time. A grant has been secured for the replacement of the existing #2 Fuel hot water boiler in the basement of the facility. Proposals from qualified mechanical contractors will be accepted at the office of Woodard & Curran, One Merchants Plaza – Suite 501, Bangor, Maine 04401, until 10:00 A.M. local time on October 16, 2012.

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WOODARD & CURRAN INC.

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Devon Carter, PE, LEED AP
Project Engineer

DLC/jiv
213357.00 007

9/19/2012



Ray Plumbing Company
P.O. Box 588, 180 Abram Way
Ellsworth, Maine 04605
Re: Request for Proposals/Invitation to Bid
Edythe L. Dyer Community Library Boiler Replacement, Town of Hampden, Maine

Dear George:

You are invited to attend a Pre-Bid Site Walk at the Edythe L. Dyer Community Library located at 269 Main Road North, Hampden, Maine, on September 27, 2012, at 10:00 A.M. local time. A grant has been secured for the replacement of the existing #2 Fuel hot water boiler in the basement of the facility. Proposals from qualified mechanical contractors will be accepted at the office of Woodard & Curran, One Merchants Plaza – Suite 501, Bangor, Maine 04401, until 10:00 A.M. local time on October 16, 2012.

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WOODARD & CURRAN INC.

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Devon Carter, PE, LEED AP
Project Engineer

DLC/jiv
213357.00 007

**COMMITMENT & INTEGRITY
DRIVE RESULTS**

One Merchants Plaza | Suite 501
Bangor, Maine 04401
www.woodardcurran.com

T 800.564.2333
T 207.945.5105
F 207.945.5492

9/19/2012



Ray Plumbing Company
P.O. Box 588, 180 Abram Way
Ellsworth, Maine 04605

Re: Request for Proposals/Invitation to Bid
Edythe L. Dyer Community Library Boiler Replacement, Town of Hampden, Maine

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Sincerely,

WOODARD & CURRAN INC.

Devon Carter, PE, LEED AP
Project Engineer

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Bangor, Maine 04401
www.woodardcurran.com

T 800.564.2333
T 207.945.5105
F 207.945.5492

November 2, 2012



Galen "Chip" Swan
Public Works Director
Town of Hampden
106 Western Avenue
Hampden, ME 04444

Re: Bid Recommendation - Edythe L. Dyer Community Library Boiler Replacement

Dear Chip:

All three contractors that participated in the original October 23, 2012, project bid submitted a revised scope and price yesterday. Two of the three proposals met the budget limit of \$10,000. The third (Ray Plumbing Co.) provided two alternates, both above that limit. The tabulated bid result sheet and bids are attached.

We tasked the bidders to provide you with a package that met the original intent to the extent possible within the \$10,000 budget. Penobscot Temperature Controls, Inc. appears to have provided the best package within that restraint. Both Huntley Oil Company, Inc. (Biasi boiler) and Penobscot Temperature Controls, Inc. (New Yorker boiler) proposed energy star boilers. However, the Biasi boiler is oversized (based on historic fuel consumption) and will likely short cycle. There was also no reset control included with the Biasi product. The short cycling and lack of reset control will both reduce seasonal efficiency. So, within the \$10,000 limit, we suggest you work with Penobscot Temperature Control, Inc.

The third bidder, Ray Plumbing Co., provided two alternatives at \$15,215 and \$12,247 along with payback analysis for each. Given that the Energy Kinetics EK-1 boiler has a built-in blend pump that allows the piping system temperature within the building to fully respond to the outdoor temperature (saving additional energy) while still protecting the boiler, their analysis appears reasonable. The basic reset control proposed by Penobscot requires the entire system to maintain a minimum temperature for boiler condensation and shock protection.

As part of their two revised proposals, Ray would eliminate the indirect water heater and provide a small electric water heater. Given your reportedly low domestic hot water use, a well-insulated electric unit would decrease your costs as compared to the current tankless coil situation and allow the boiler to be completely shut down in summer.

If the Town has additional funds beyond the grant that could be directed to this project, either of Ray's proposals should provide acceptable paybacks

Code issues were not comprehensively reviewed as part of our scope. The oil line is noted as being replaced for all bidders. As you can see from the bids, other code items that concerned the bidders varied per bidder. We suggest you work with local code enforcement and your selected bidder to identify code issues and additional costs prior to awarding a contract.

Please call with any questions or concerns.

Sincerely,

WOODARD & CURRAN INC.


Devon Carter, PE, LEED AP
Project Engineer

DLC/jiv
213357.00 007



COMMITMENT & INTEGRITY
DRIVE RESULTS

One Merchants Plaza, Suite 501
Bangor, Maine 04401
www.woodwardcurran.com

Toll Free 1-800-594-2333
F 207-645-5105
T 207-645-5492

TOWN OF HAMPDEN, MAINE
EDYTHE L. DYER COMMUNITY LIBRARY BOILER REPLACEMENT
PROJECT NO. 213357

November 1, 2012 - Re-Bid Under Reduced Scope

No.	Description	Unit	Estimated Quantity	Ray Plumbing & Heating Co.		Penobscot Temperature Controls, Inc.		Huntley Oil Company, Inc.	
				Unit Price	Value	Unit Price	Value	Unit Price	Value
1	Boiler Replacement	LS	1	See Below		\$9,789.00	\$9,789.00	\$9,996.02	\$9,996.02
	Revised Original Proposal Dated October 15, 2012	LS	1	TOTAL BASE BID	\$18,244.00	TOTAL BASE BID	\$9,789.00	TOTAL BASE BID	\$9,996.02
	Revised Proposal #1	LS	1		\$15,215.00		\$0.00		\$0.00
	Revised Proposal #2	LS	1		\$12,247.00		\$0.00		\$0.00
				TOTAL BID	\$39,789.00	TOTAL BID	\$39,789.00	TOTAL BID	\$39,996.02

Ray Plumbing Co.
P.O.Box 588, 180 Abram Way
Ellsworth, Maine 04605

PROPOSAL

DATE: October 15, 2012

FOR: Edythe L. Dyer Community Library
JOB: Boiler Replacement, Town of Hampden, Maine

Replace Boiler

Energy Kinetics System 2000 EK-1 Frontier Premier Heat and Hot Water Boiler Package: Includes Standard Base, Air Box, Digital Manager, Filter Kit w/ Flex Oil Line, Complete Supply, Return, By-pass Piping, Main Circulator, Air Purger and Vent, Gauge, Relief Valve, Boiler Feeder & Back Flow Preventer, Ball Valve and Purge, 40 Gallon Hot Water Storage Tank, Heat Exchanger, Smart Pump Kit

Boiler as Listed Above	1	
Resettable LWCO & Hi Limit Kit	1	
Re-use Expansion Tank	1	
Smoke Pipe	1	
Air Box Piping w/ Core Drill	1	
Run New Coated Oil Line, Protect @ Door	1	
Add Tiger Loop to Oil System	1	
Pipe Existing Zones Supply & Return For Primary/Secondary, Re-use Circulators	1	
10 Zone ERC Control	1	
Injection Zone Valves	2	
Replace Existing Zone Valves	7	
New Thermostats, Honeywell Programmable	7	
Pipe HW Storage Tank w/ Thermal Exp	1	
Watts Mixing Valve for Hot Water	1	
Wire Boiler and Controls	1	
Removal/Disposal of Boiler	1	
Total for Boiler Replacement		\$18,244

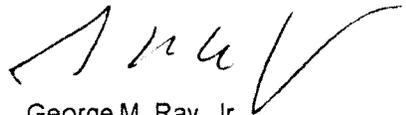
Options:

5"SS Chimney Liner, Installed	1	\$2,443
Twin 275 Gallon Oil Tank Package	1	\$2,957
Grundfos Comfort HW Recirc System	1	\$1,360

Notes:
 Code requires whole system be brought up to date, including chimney and oil tank.
 Oil tanks meet code "as is". May want to upgrade due to age.
 Oil line must be changed.
 Chimney is lined. A SS liner is recommended.
 Liner price based on no off-sets or restrictions in chimney.
 There may be a 24 hour period when heat and/or hot water will be off.

Thank you for the opportunity to quote on this project. Should you have any questions or require any additional information, please feel free to contact me.

Very truly yours,



George M. Ray, Jr.
 207.667.5536

Acceptance of Proposal

The above prices, specification and conditions satisfactory and are hereby accepted. You are authorized to do the work as specified.

Signature _____ Date _____
 Terms: 50% down, balance as requisitioned.

Ray Plumbing Co.
P.O.Box 588, 180 Abram Way
Ellsworth, Maine 04605

PROPOSAL Revised #1

DATE: October 31, 2012

FOR: Edythe L. Dyer Community Library
JOB: Boiler Replacement, Town of Hampden, Maine

Replace Boiler

Energy Kinetics System 2000 EK-1 Frontier Premier Heat Only Package: Includes Standard Base, Air Box, Digital Manager, Filter Kit w/ Flex Oil Line, Complete Supply, Return, By-pass Piping, Main Circulator, Air Purger and Vent, Gauge, Relief Valve, Boiler Feeder & Back Flow Preventer, Ball Valve and Purge

Boiler as Listed Above, No Tank	1	
Resettable LWCO & Hi Limit Kit	1	
Re-use Expansion Tank	1	
Smoke Pipe	1	
Air Box Piping w/ Core Drill	1	
Run New Coated Oil Line, Protect @ Door	1	
##Add Tiger Loop to Oil System		
Pipe Existing Zones Supply & Return For		
Primary/Secondary, Re-use Circulators	1	
10 Zone ERC Control	1	
Injection Zone Valves	2	
Replace Existing Zone Valves	7	
##Re-use Extg Thermostats		
**Pipe HW Storage Tank w/ Thermal Exp		
**Watts Mixing Valve for Hot Water		
% Remove Extg 80 Gal Water Heater	1	
% 30 Gal Electric Water Heater w/ Timer	1	
Wire Boiler and Controls	1	
Removal/Disposal of Boiler & 80 Gal EWH	1	
Total for Boiler Replacment		\$15,215

Options:

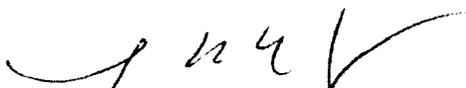
5"SS Chimney Liner, Installed	1	\$2,443
Twin 275 Gallon Oil Tank Package	1	\$2,957
Grundfos Comfort HW Recirc System	1	\$1,360

Notes:

- ** = Modified, ## = Deleted, % = Added.
- Code requires whole system be brought up to date, including chimney and oil tank.
- Oil tanks meet code "as is". May want to upgrade due to age.
- Oil line must be changed.
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Signature _____ Date _____

Terms: 50% down, balance as requisitioned.

Ray Plumbing Co.
P.O.Box 588, 180 Abram Way
Ellsworth, Maine 04605

PROPOSAL - Revised #2

DATE: October 31,2012

FOR: Edythe L. Dyer Community Library
JOB: Boiler Replacement, Town of Hampden, Maine

Replace Boiler

Energy Kinetics System 2000 EK-1 Frontier Premier Heat Only Package: Includes Standard Base, Air Box, Digital Manager, Filter Kit w/ Flex Oil Line, Complete Supply, Return, By-pass Piping, Main Circulator, Air Purger and Vent, Gauge, Relief Valve, Boiler Feeder & Back Flow Preventer, Ball Valve and Purge

Boiler as Listed Above, No Tank	1	
Resettable LWCO & Hi Limit Kit	1	
Re-use Expansion Tank	1	
Smoke Pipe	1	
Air Box Piping w/ Core Drill	1	
Run New Coated Oil Line, Protect @ Door	1	
##Add Tiger Loop to Oil System		
**Connect to Extg Supply & Return As Is, Re-use Circulators	1	
**10 Zone Digital Manager Upgrade	1	
% 7 Zone Interface Relay Set-up	1	
##Injection Zone Valves		
##Re-use Existing Zone Valves		
##Re-use Extg Thermostats		
**Pipe HW Storage Tank w/ Thermal Exp		
**Watts Mixing Valve for Hot Water		
% Remove Extg 80 Gal Water Heater	1	
% 30 Gal Electric Water Heater w/ Timer	1	
Wire Boiler and Controls	1	
Removal/Disposal of Boiler	1	
Total for Boiler Replacment		\$12,247

Options:

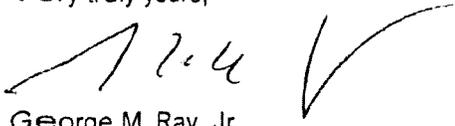
5"SS Chimney Liner, Installed	1	\$2,443
Twin 275 Gallon Oil Tank Package	1	\$2,957
##Grundfos Comfort HW Recirc System		

Notes:

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Ray Plumbing Co.
P.O.Box 588, 180 Abram Way
Ellsworth, Maine 04605

Estimated Annual Fuel Use	Gallons Per Year	Fuel Cost	Annual Fuel Cost
Existing Oil Used	2080	\$ 3.25	\$6,760
Years Of Use	20		\$135,200
Less Expected Fuel Savings Of Another System 10%	208		
Estimated Fuel Use	1872	\$ 3.25	\$6,084
Years Of Use	20		\$121,680
System 2000 Boiler	686.4		
Less 33% Fuel Use	1393.6	\$ 3.25	\$4,529
Estimated Fuel Use	20		\$90,584

Replacement System	10/15/2012	Other System - Brand A	10/31/2012	System 2000 EK-1	10/31/2012	System 2000 EK-1	10/31/2012
System 2000 EK-1	\$18,244	\$	\$11,500.00	Investment	Investment	Investment	\$12,247
Fuel Use/YR	\$4,529	\$6,084		Fuel Use/YR	Fuel Use/YR	Fuel Use/YR	
Yrs Of Use	\$90,584	\$121,680		Yrs Of Use	Yrs Of Use	Yrs Of Use	
Total Systems	\$108,828	\$133,180		Total Systems	Total Systems	Total Systems	
Brand A		\$133,180		System 2000	System 2000	System 2000	
System 2000		\$108,828		Additional Money Spent On Fuel To Avoid Spending Difference In	Additional Money Spent On Fuel To Avoid Spending Difference In	Additional Money Spent On Fuel To Avoid Spending Difference In	
Additional Money Spent On Fuel To Avoid Spending Difference In System		\$24,352		Projected Pay Back	Projected Pay Back	Projected Pay Back	
Projected Pay Back Of Both Systems				System 2000	System 2000	System 2000	
System 2000	\$18,244	\$11,500.00		Grant	Grant	Grant	
Grant	(\$10,000)	(\$10,000)		Total	Total	Total	
Total	\$8,244	\$1,500.00		Fuel Savings / Yr \$	Fuel Savings / Yr \$	Fuel Savings / Yr \$	
Fuel Savings / Yr \$	\$2,231	\$676.00		Yrs To Pay Back	Yrs To Pay Back	Yrs To Pay Back	
Yrs To Pay Back	3.7	2.2		ROI	ROI	ROI	
ROI	27%	45%					

Penobscot Temperature Controls, Inc.

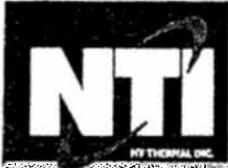
54 Nadine's Way
 Hampden, ME-04444
 (207)945-9350

Quote

Date	Quote #
11/1/2012	72

Name / Address
Town of Hampden 106 Western Avenue Hampden, ME 04444

		Project	Location
		New Boiler	Town Office
Item	Description	Qty	Total
Materials and labor	Edythe L Dyer Community Library Boiler Replacement. We will remove and dispose for the existing boiler. We will provide and install one NY Thermal Odyssey model # CT 120-180 boiler / Riello burner. with Tekmar outdoor reset control, one 40 gallon indirect water heater. Tiger loop oil filter unit, replace existing oil line. Use existing heating circulation pumps and zone valves Thermostat control wire connections, new boiler system start up and check out. One year warranty		9,789.00
Thank you for your business! **This quote may be withdrawn by us if not accepted within 30 days.**		Total	\$9,789.00



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[Sales Literature](#)

FEATURES

- Its unique three-pass combustion path design generates outstanding performance with efficiencies up to 85 per cent
- The most advanced technology, NTI's Fuel smart Hydrostat 3250 from hydrolevel
- The flame envelope is totally surrounded by water resulting not only in high efficiencies but low installation clearances
- Safely operates at low water temperatures allowing a reliable "cold start" operation
- Lifting holes are provided in the casting to enable the use of lifting bars, making boiler placement efficient and safe
- All boilers are protected with a plastic film to prevent damage before installation
- Certified for low clearance and combustible floor installations
- The snap-off front panel and hinged burner door make cleaning easy and quick



SPECIFICATIONS

Model	Input GPH	Heating Capacity BTU	Efficiency	Dimension A	Water Volume	Weight (lbs)
CT-80	.65	77,000	83.6%	17.5	3.6	280
CT-90	.75	88,000	83.0%	17.5	3.6	260
CT-100	.85	99,000	82.4%	17.5	3.6	260
CT-120	1.00	121,000	85.1%	25.5	5.4	390
CT-150	1.25	149,000	84.0%	25.5	5.4	390
CT-180	1.50	176,000	82.8%	25.5	5.4	390
CT-215	1.75	212,000	85.8%	33.5	7.3	500
CT-230	1.85	223,000	85.8%	33.5	7.3	500
CT-250	2.00	240,000	85%	33.5	7.3	500

SUPPLY AND RETURN SIZE		1 1/4" NPT
Stack Size		5"
Allowable operating Range °f		90-220°f
Maximum allowable temperature		240°f
Maximum allowable pressure		50 Psi

PROPOSAL

HUNTLEY OIL COMPANY, INC.
740 MAIN ROAD NORTH
HAMPDEN, MAINE 04444
(207) 945-9378

October 30, 2012

Edythe L. Dyer Community Library
PROPOSAL SUBMITTED TO
269 Main Road North
STREET
Hampden, Maine 04444

We hereby submit specifications and estimates for: Boiler Replacement at the Edythe L. Dyer Community Library.

Price for the installation: \$9,996.02

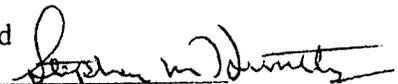
We propose hereby to furnish material and labor- complete in accordance with above specifications, for the sum of Nine Thousand Nine Hundred Ninety-Six dollars and 02/100. Payment to be made as follows: \$4,998.01 is due to start the conversion and \$4,998.01 is due once the installation is completed.

Due to recent world conditions, Huntley Oil Co., Inc. cannot and will not be responsible for any cost increase in any metal or metal made product. We will also reserve the right to substitute Pex tubing for copper tubing. This will depend on price and availability.

All material is guaranteed to be as specified. All work will be completed in a workmanlike manner according to standard practices. Any alterations or deviations from the above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements are contingent upon strikes, accidents or delays beyond our control. The owner is to carry fire, tornado and other necessary insurance. Our workers are fully covered by Workman's Compensation Insurance and are State of Maine licensed.

Note: This proposal may be
Withdrawn by us if not accepted
Within 30 days

Authorized
Signature


Stephen M. Huntley, President

Acceptance of Proposal: The above prices,
Specifications and conditions are satisfactory and are hereby accepted.
You are authorized to do the work as specified. Payment will be made as
Outlined above.

Date of Acceptance _____

Signature _____

PROPOSAL

*HUNTLEY OIL COMPANY, INC.
740 MAIN ROAD NORTH
HAMPDEN, MAINE 04444
(207) 945-9378*

Edythe L. Dyer Community Library
PROPOSAL SUBMITTED TO
269 Main Road North
STREET
Hampden, Maine 04444

October 30, 2012

We hereby submit specifications and estimates for: Boiler Replacement

1-Biasi cast iron boiler B10-9

1-Rellio 40 F10 oil burner

We will be connecting to the existing piping and zoning system.

Price will include:

- All the necessary piping and wiring for boiler replacement only.
- The installation of a 41-gallon indirect storage tank and all the necessary piping.
- The re-piping of the oil tank vent piping.
- The replacement of the oil supply line and sleeving to the oil burner.
- The removal and hauling off of the existing boiler.

Please note that we recommend the oil tanks to be replaced.

Please note that the public cannot be allowed near the boiler or in the boiler room.

If a wall separation is needed, you will have to provide the necessary combustion and ventilation air requirements at an extra cost.

Please note that all existing A/C ducts need to be closed off during the winter months.

Please note that we will also advise you to have a protective cover built over the oil supply connections at the fuel oil tank.

Please note that if the existing chimney does not meet the code requirements, relining or repair of will be at an extra cost

The work will be done during normal business hours, Monday-Friday, 7:00a.m to 5:00p.m.

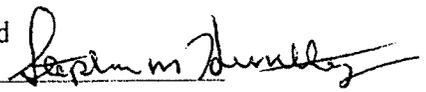
The installation will be installed to comply with All State & local codes.

J&M Chase Electric, Inc will be a subcontractor on this replacement.

Due to recent world conditions, Huntley Oil Co., Inc. cannot and will not be responsible for any cost increase in any metal or metal made product. We will also reserve the right to substitute Pex tubing for copper tubing. This will depend on price and availability.

All material is guaranteed to be as specified. All work will be completed in a workmanlike manner according to standard practices. Any alterations or deviations from the above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements are contingent upon strikes, accidents or delays beyond our control. The owner is to carry fire, tornado and other necessary insurance. Our workers are fully covered by Workman's Compensation Insurance and are State of Maine licensed.

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Within 30 days

Authorized
Signature 
Stephen M. Huntley, President

Acceptance of Proposal: The above prices,
Specifications and conditions are satisfactory and are hereby accepted.
You are authorized to do the work as specified. Payment will be made as
Outlined above.

Date of Acceptance _____

Signature _____

The **BIASI B-10 Boiler System**



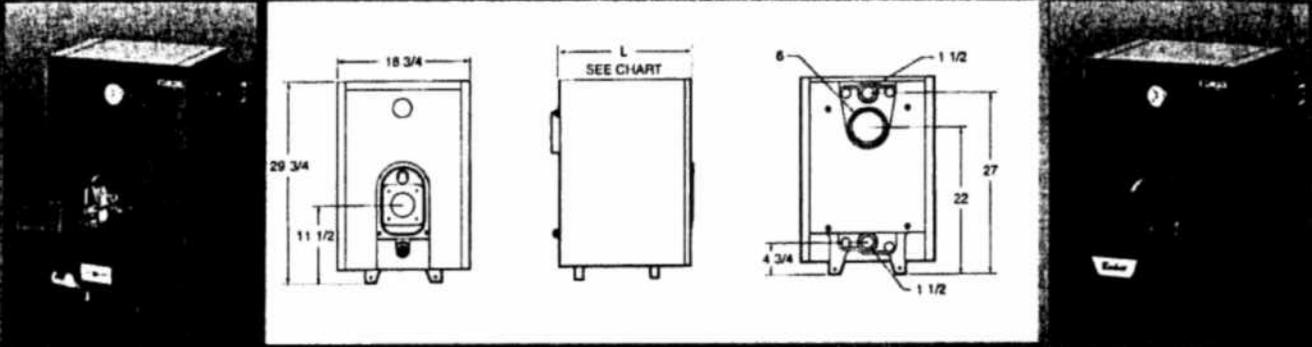
- **Energy Star compliant**
- **Compact size**
- **Limited lifetime warranty**



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BIASI...The Style of Warmth

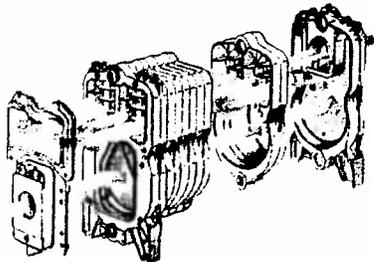
The B-10 boiler system has been heating residential buildings throughout the world for years. It has proven its fuel efficiency and durability in countries where fuel can cost up to four times as much as in the U.S. The same fuel-saving technology is now available here in North America. With the three-pass boiler design and low water content, heat is quickly supplied for your heating zones and hot water needs. Combined with a boiler temperature reset, high limit 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. The B-10 boiler system is the cost-competitive heat and hot water system of choice.



The BIASI B-10 Residential Series

Boiler Model #	DOE Heating Capacity	Gross Input Burner Capacity		Net IBR Output (MBH)	AFUE Efficiency (%)	Water Content (Gals.)	Length (L) (Inches)	Weight (Lbs.)
		GPH	MBH					
B-3	67	0.55	80	58	86.6	3.7	15.5	247
B-4	97	0.80	112	84	86.8	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 and UL listed
- 58 PSI cast-iron construction

Exclusively distributed by:

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