

# **2022**

# **BUSINESS DIRECTORY**

A Comprehensive Directory of the State of  
Maine Plumbing-Heating-Cooling Contractors  
and Related Businesses

**[www.mainephcc.com](http://www.mainephcc.com)**

Presented by  
**Maine Association**  
**Plumbing-Heating-Cooling Contractors**  
Portland, Maine 04103  
(207) 829-5055  
Fax (207) 829-5031

**Published March 2022**

# **MISSION STATEMENT**

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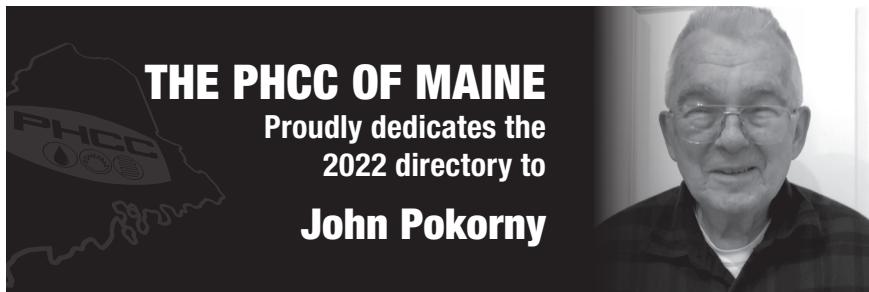
“The PHCC-National Association, of which Maine PHCC is a member, is an Association of plumbing, heating, and cooling contractors dedicated to the promotion, advancement, education, and training of the industry for the protection of the health, safety, and comfort of society and the protection of the environment.”

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## **CODE OF ETHICS**

- To consider our trade worthy as affording us distinct opportunities to serve society
- To improve ourselves, increase our efficiency and enlarge our service, and by so doing attest our faith in the fundamental principles of life, that we profit most who serve best
- To realize that we are businesspersons and ambitious to succeed; but that we are first ethical persons, and wish no success that is not founded on the highest justice and morality
- To maintain the highest ethical standards of advertising, pricing, selling, installation and service guided by the principles of honesty and integrity
- To promote the latest technological advances in the design, types and methods of installation of plumbing-heating-cooling systems; using equipment and materials complying with the standards recognized by this industry
- To enter enthusiastically into the association work—to give as well as take—and do our part in elevating the industry
- To support all progressive moves that are being carried out along the lines of trade extension, standardization and sanitation
- To conduct our affairs that others in our business will find it wise, profitable and conducive to happiness to emulate our example
- To follow and execute our work in conformity with federal, state, county and city building, safety, energy and water conservation, fire and housing codes; and refusing to be a party to any action that violates these regulations
- To promote conservation of water and energy to the public we serve through improved, adequate, safe, modern installation of energy efficient equipment

**PRIDE IN OUR PAST—FAITH IN OUR FUTURE**



## THE PHCC OF MAINE

Proudly dedicates the  
2022 directory to

### John Pokorny

The Maine Association of PHCC proudly dedicates the 2022 Annual Business Directory to John Pokorny for his dedication, commitment, knowledge, and friendship to our members and this industry for many years.

John was born and raised in Newton MA where he attended Newton South High School. He joined the company in 1965 while attending Boston University, where he played on the Hockey team while getting his degree in Business. In 1971 his father passed away and John was running the show. JH Pokorny Associates started in 1942 as John's Father, John Sr. was transferred from the New York office of Edward & Platt to become the new Sloan Valve Company representative for the Northern New England Area. John's father originally worked out of his home.

In 1994, he hired his son Richard, as the third generation to join the company. They continue to cover Maine, NH, VT and Eastern MA as well as RI for a few lines. John's passion was always covering Maine though. He loved calling on customers and was a constant presence at all the trade show and PHCC events. He was always talking to an engineer or following up on a job, until he retired in 2011. He does still work part time in the background. He loves the industry, but he really does enjoy retirement. He also volunteers in his hometown and is a highly regarded member of the Lions club.

John has been married for 55 years now to his wife Cathy and has a very close relationship with his two children, Laura and Richard. They both graced him and Cathy with four precious grandchildren, Katelyn, Jack, Savanna and Katrina. He has thoroughly enjoyed having more free time to watch each one of them grow up and having them close.

John consistently exceeded his sales goals even during the lackluster late 80's. His knowledge of the industry is very...very impressive, and he worked long and hard. His true passion for the lines he represented is something we should all have in us. The world truly would be a better place if we all had as much heart as John.

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[www.ct-phcc.org](http://www.ct-phcc.org)

# 20<sup>TH</sup> ANNUAL GOLF TOURNAMENT

October 1, 2021  
Val Halla Golf & Recreation  
Cumberland, Maine



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# 127th Annual EXPO



March 25th, 2022 \* Augusta Civic Center

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**MAINE FUEL CODE UPDATE** Code update and review of current adopted codes that pertain to the oil, propane and natural gas industry. This presentation will consist of a power point presentation and an open floor for questions during the presentation. Solid fuel codes will be addressed on an as needed basis.

## **MAINE MECHANICAL CODE**

New state wide adoption of the International Mechanical Code.(IMC) PowerPoint presentation of The 2015 Fundamentals of the International Mechanical Code delivered by ICC's GR Director Of Technical Resources, Gary Gauthier.

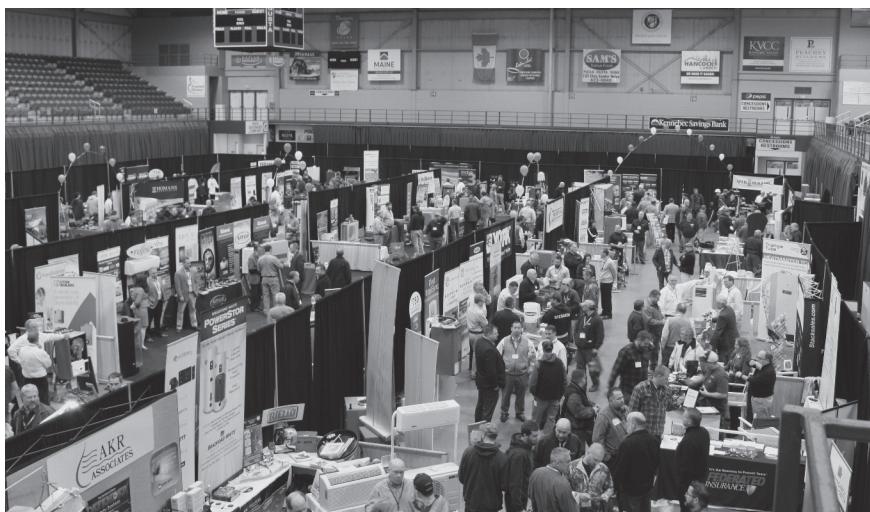
## **MAINE STATE INTERNAL PLUMBING CODE**

Code update and review of 2021 edition of the Uniform Plumbing Code all with amendments to the code.

**ENERGY CODE** Overview of the new energy code for one and two family residential dwellings.

## **127<sup>th</sup> ANNUAL MAINE PHCC EXPO 12:00 PM – 4:00 PM**

An opportunity to talk with Wholesalers, Manufacturers and Manufacturer's Representatives and Service Providers. Stay on top of the newest products and technology in the market today. Networking with your peers, you will be surprised at what you can learn from a conversation with a peer that can make your life easier and business prosper.

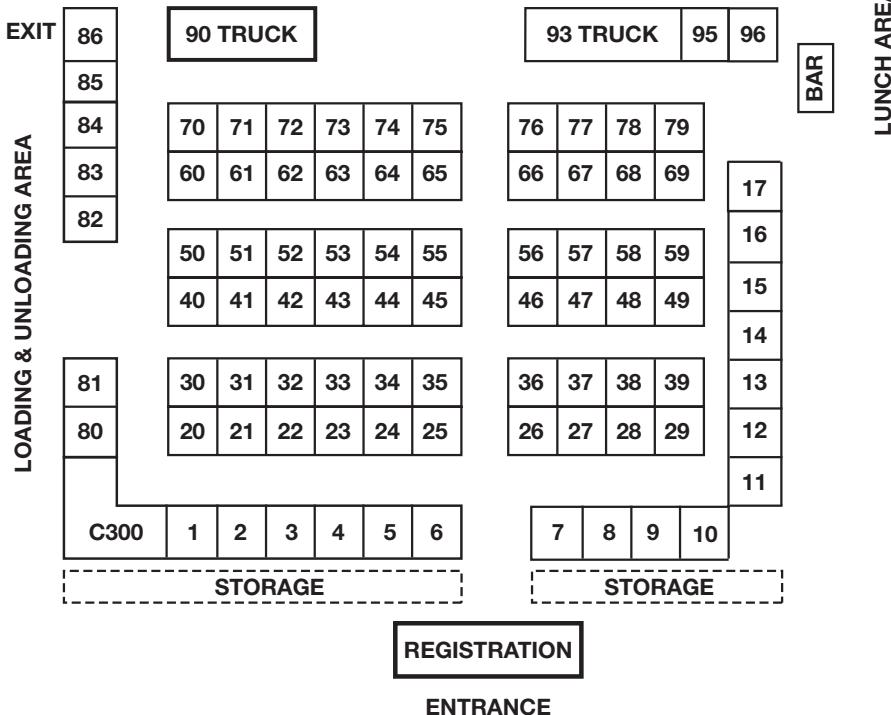


# PLAN OF EXHIBIT SPACES

AUGUSTA CIVIC CENTER

**EVERYONE IS WELCOME!**

## APPRENTICESHIP CONTEST



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& Seminar Refreshments  
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# **EXHIBITORS 2022**

(AS OF FEBRUARY 15, 2022)

2	John Stack Sales Co., Inc	46	S. G. Torrice Company
3	John Stack Sales Co., Inc	47	S. G. Torrice Company
4	John Stack Sales Co., Inc	48	REHAU
5	John Stack Sales Co., Inc	49	Bell Simons
7	Plumbmaster - Wolverine Brass	50	Winsupply of Rockland
8	Johnstone Supply	51	Symmons
9	Johnstone Supply	52	IAPMO
10	Mitsubishi Electric Trane HVAC	54	Runtal North America, Inc
11	The Walter F. Morris Company	55	RST Thermal, Inc
12	The Walter F. Morris Company	56	Homans Associates
13	Emerson Swan, Inc.	57	Urell, Inc.
14	Emerson Swan, Inc.	58	Urell, Inc.
15	Emerson Swan, Inc.	59	Urell, Inc.
16	Winsupply of Portland	60	QHT, Inc.
17	Winsupply of Portland	61	Viega LLC.
20	Trane	62	Bangor Pipe & Supply, Inc.
21	Viessmann Manufacturing Co.	64	IBC Intergas
22	W. P. Haney Co., Inc	65	Ferguson Enterprises
23	Summit Natural Gas	66	Rheem Water Heating
24	Heat-Flo	67	Rheem Water Heating
25	Davenport Associates	68	Efficiency Maine
26	F. W. Webb Company	69	Urell, Inc.
27	F. W. Webb Company	70	QHT, Inc.
28	RIDGID	72	MEMA Technical Education Center
29	Tower Hill Sales	73	United Insurance
30	Moen	74	International Code Council
31	RW Beckett Corp.	75	Ferguson Enterprises
33	FIA, Inc.	76	Dan Davis Sales
34	J. H. Pokorny Associates, LLC	77	Dan Davis Sales
35	Davenport Associates	78	Dan Davis Sales
36	F. W. Webb Company	79	Federated Insurance
37	F. W. Webb Company	80	J & K Sales Associates
38	Professional Dynamic Sales Corp.	81	J & K Sales Associates
39	The Granite Group	85	David Gooding, Inc.
40	Winsupply of Rockland	86	David Gooding, Inc.
41	Dyson Associates, Inc.	90 Truck	F. W. Webb Company
43	Heat-Line	96	Maine Natural Gas
44	Sweeney, Rogers & Geraghty	C300, 301	Edos
45	Sweeney, Rogers & Geraghty		

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## Everything You Need to Strengthen Your Business – Now and in the Future

- **Discounts**
- **Safety Program Builder**
- **Resource Library**
- **Consensus Docs**
- **Techline**
- **Retirement Program** – 401K Program
- **Advocacy** – Legislative & Regulatory Participation  
State Legislative and Regulatory Tracking Tool  
Fight against over Regulation
- **Networking Opportunities**
- **Best Practices**
- **Workforce Development**  
Apprenticeship Training  
Pre-Apprenticeship Courses  
PHCC Career Center and Job Board  
Scholarships
- **Expert and Affordable Training**  
Fast Track to Service Plumbing  
Project Management and Foreman Training  
Plumbing and Mechanical Codes Training  
Business Management Programs  
Webinars and Other Training Opportunities

<https://community.phccweb.org/resourcecenter/member-benefits>



Dear PHCC of Maine Members,

While I have not had the pleasure of visiting your great state, I have always been moved by the photos and videos of the pristine landscape beauty stretching out to the vast ocean. As visitors travel through towns like Bangor, Augusta, Hope, Kennebunk, and New Gloucester where legendary families have lived (and where many of our PHCC member companies operate today!), they gain a deep appreciation for what Maine business owners offer this country.

As essential workers, you understand how pivotal your role is in helping residents and commercial businesses stay plugged in through the fiercest winters when seasonal businesses like small mom and pop ice cream shops close their stores for the season, while other establishments and homes keep humming due to the efforts of contractors such as yourselves.

This vibrant community across Maine, and our continent, serves as a reminder that even during challenging times, we continue to show up and serve communities who need our services even more.

At PHCC—National, we are committed to serving your needs. In fact, the PHCC—National Association Board of Directors recently developed a new PHCC five-year strategic plan with your challenges and opportunities in mind. As this plan is implemented, we'll work to expand PHCC members' recognition as "contractors of choice" and to continue building our reputation as a valuable resource for both HVAC and plumbing contractors. We'll also continue to address workforce development to help you attract and retain top personnel. And, we will implement operational readiness through initiatives like our new PHCC Business Intelligence Department that provides just-in-time information for your just-in-time specific needs.

Your loyal membership means a lot and our community is grateful for your dedication. It is PHCC's priority to provide the benefits and services to help our members be successful. Here are examples of just a few new benefits that can help you strengthen your business:

- A new PHCC Multi-Employer Group 401(k) program.
- Several new member discount programs, including:
  - U.S. Bank business card solutions
  - Pink Callers comprehensive administrative support solutions
  - Home Depot Pro and Home Depot Supply "Preferred Partner" programs

Also new this year is a PHCC Rocks podcast series that explores the success stories, ideas and testimonies shared by PHCC members, chapter executives and industry partners who carry out the mission of PHCC. I am fortunate to be the host of these conversations that reveal how each state is finding unique ways to improve the outcomes for their contractors. I invite you to check out the conversations at [phccrocks.com](http://phccrocks.com).

I would also like to take this opportunity to personally invite you to two special events this year:

- PHCC Legislative Conference May 24-25
- Our flagship PHCCCONNECT2022 October 5-7 in North Carolina

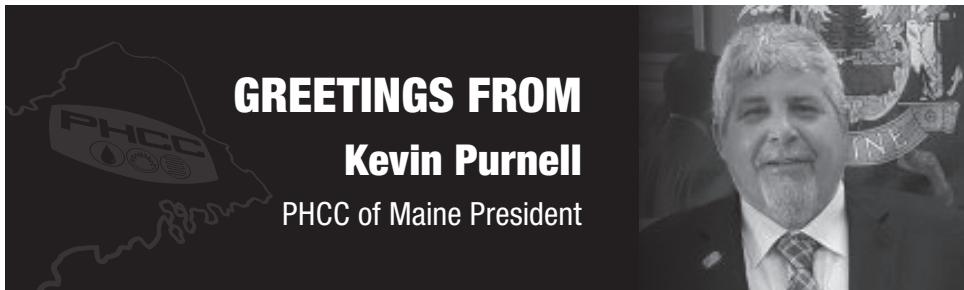
We remain proud of our organization, our people and all that you accomplish in Maine. It is an absolute privilege to serve as your national president for 2022.

Warm regards,

Joel Long  
PHCC-National Association President  
GSM Services  
Gastonia, North Carolina



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## GREETINGS FROM

**Kevin Purnell**

PHCC of Maine President

Greetings Members and Guests,

Hope this finds you all well as we continue to face the uncertainties ahead of us. Over the past two years it seems like we have had to adjust to these new times with new procedures and policies to keep our employees and customers safe. We were very fortunate to be in the trade, where we were considered essential and deemed an important part of keeping things going. This shows the importance of our industry and the need to have a strong association as we work to build a strong membership base to help contribute and provide growth to our industry.

Alice has been providing vital information to us on apprenticeship and educational opportunities. Now that in-person events are starting to break and happen, this would be the time to network and try and grow to increase awareness of what is available for companies and new employees to our industry.

We are very excited for 2022 PHCC Expo at Augusta Civic Center. There will be presentations on all the new code updates that are essential to our industry. There will also be plenty of new products and technology for you to discover along with the 11th annual plumbing apprenticeship contest. Registration responses have been great, reps and others are very excited after this long pause on getting out and seeing one another and having some face-to-face interactions. All seem eager finally be able to reconnect at the Expo. Hope you will take the time to walk around and thank all the vendors for the ongoing support for us and our organization.

There are great leaders coming up in the chapter and we look forward to input of this generation in trying to attract younger professionals into our industry and provide growth and more education to our trades. We invite anyone that would like to join to help us with our mission to promote, advance, train, educate the industry for the health, safety and comfort of our society as well as the protection of our environment. We look forward to seeing the younger generation form ideas and provide direction for growth of our chapter.

Respectfully,

Kevin Purnell  
PHCC of Maine, President



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**E-mail:** [Sales@heat-flo.com](mailto:Sales@heat-flo.com)



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**Past Presidents of the Maine Association of Plumbing, Heating, Cooling Contractors**

**Front (left to right):** Robert Miles, Sr., Richard Waltz, Sr., Elmer (Ted) Walker

**Back (left to right):** Kim Girard, Sal Raia, Roland (Beef) L'Heureux, David Walker



John  
Gerber



Anthony  
LaMarre



Ralph (Fred)  
Blake



Jim  
Godbout



Frank  
North



Jon  
Harmer



Mark  
Oliver



Charlie  
Burnham



Kevin  
Purnell



**Front (left to right):** Don Dube and Executive Director Alice Ames

**Back (left to right):** Ron Dunsmoor, Jim Robinson, Robert Miles, Jr.

# PAST PRESIDENTS OF THE MAINE ASSOCIATION SINCE 1930

1930	*George Noyes, Presque Isle	1975	*Ralph E. Clarke, Rumford
1931	*George Noyes, Presque Isle	1976	*Ralph E. Clarke, Rumford
1932	*Neils Knudsen, Falmouth	1977	*W. Franklin Blake, Portland
1933	*Neils Knudsen, Falmouth	1978	*W. Franklin Blake, Portland
1934	*John Kerrigan, Lewiston	1979	George Ray, Ellsworth
1935	*John Kerrigan, Lewiston	1980	George Ray, Ellsworth
1936	*Ernest R. Graham, Bar Harbor	1981	Thomas Kelley, Portland
1937	*Ernest R. Graham, Bar Harbor	1982	Thomas Kelley, Portland
1938	*Wilbur F. Blake, Portland	1983	Roland L'Heureux, Kennebunk
1939	*Wilbur F. Blake, Portland	1984	Roland L'Heureux, Kennebunk
1940	*Charles B. Davis, Waterville	1985	*Kim Girard, Old Orchard
1941	*Charles B. Davis, Waterville	1986	*Kim Girard, Old Orchard
1942	*Jerry A. Cyr, Fort Fairfield	1987	Salvatore Raia, Portland
1943	*Ralph L. Clarke, Rumford	1988	Salvatore Raia, Portland
1944	*Ralph L. Clarke, Rumford	1989	David Walker, Poland Springs
1945	*Ernest N. Cunningham, Portland	1990	David Walker, Poland Springs
1946	*Hilman A. Williams, Westbrook	1991	Robert Miles, Sr., Yarmouth
1947	*William A. Sparks, Brunswick	1992	Ralph F. Blake, Jr., Portland
1948	*Philip Reuben, Portland	1993	Ralph F. Blake, Jr., Portland
1949	*Arthur I. Knight, Westbrook	1994	Donald Dube, Biddeford
1950	*C. Merton Douglas, Brunswick	1995	Donald Dube, Biddeford
1951	*Andrew P. Iverson, Portland	1996	John H. Gerber, Portland
1952	*William P. Clapman, Waterville	1997	John H. Gerber, Portland
1953	*Bernard T. Young, Auburn	1998	James Robinson, Portland
1954	*Emil N. Iverson, Portland	1999	James Robinson, Portland
1955	*Frederick B. Chick, Westbrook	2000	Robert Miles, Jr., Yarmouth
1956	*Stuart W. Littlefield, Kennebunk	2001	Robert Miles, Jr., Yarmouth
1957	*Silas Fowler, Lincoln	2002	Ronald Dunsmoor, Biddeford
1958	*Harry B. Chase, Westbrook	2003	Ronald Dunsmoor, Biddeford
1959	*Richard P. Waltz, Portland	2004	Anthony Lamarre, Waterville
1960	*Arthur W. Ford, Auburn	2005	Anthony Lamarre, Waterville
1961	*Ernest W. Maxcy, Camden	2006	James Godbout, Biddeford
1962	*Ralph F. Blake, Portland	2007	James Godbout, Biddeford
1963	*Franklin E. Hannaford, Farmington	2008	Frank North, Naples
1964	*Richard J. Carvel, Portland	2009	Frank North, Naples
1965	*William J. Steeves, Millinocket	2010	Frank North, Naples
1966	Harry E. Nason, Jr., Auburn	2011	Ron Dunsmoor, Biddeford
1967	*Marlowe J. LeBarge, Kennebunk	2012	Jon Harmer, New Gloucester
1968	*Filmore O. Frye, Lincoln	2013	Jon Harmer, New Gloucester
1969	*Omer O. Oullette, Lewiston	2014	Jon Harmer, New Gloucester
1970	*Omer O. Oullette, Lewiston	2015	Mark Oliver, Kennebunk
1971	Elmer F. Walker, Jr., Poland Springs	2016	Mark Oliver, Kennebunk
1972	Elmer F. Walker, Jr., Poland Springs	2017	Charlie Burnham, Freeport
1973	*Martin Caron, South Portland	2018	Charlie Burnham, Freeport
1974	*Martin Caron, South Portland	2019	Kevin Purnell, Oakland
		2020	Kevin Purnell, Oakland
		2021	Kevin Purnell, Oakland

# **MAINE ASSOCIATION OF PLUMBING-HEATING-COOLING CONTRACTORS OFFICERS AND COMMITTEES**

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1965		Joseph P. Welch
1966		George F. Scribner
1967		Harry B. Chase
1968		Neils M. Knudsen
1969		William Gower
1970		Richard Waltz, Sr.
1971		Ralph L. Clarke
1972		Arthur Ford
1973	Dick Carvel	Stanley Baker
1974	Arthur Ford	Omer Ouellette
1975		John Thornton
1977	Ralph Blake, Sr.	Andrew P. Iverson
1978	Ted Walker	Roger Ouelette
1979	Marty Caron	Fred Chick
1980	Lester Gross	Samuel Burokoff
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1982	Bill & Bob Miles	William Steeves
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1985	William Steeves	Marty Caron
1986	Thomas Kelley	Warren Charles
1987	Roland L'Heureux	William Miles, Sr.
1988	Lloyd Rainey	Lester F. Gross
1989	Dennis Steinert	John G. Morin
1990	Philip Lamourreux	Roland & Shirley L'Heureux
1991	John Gerber	Richard J. Carvel
1992	Salvatore Raia	Ted Walker
1993	David Walker	Richard and Jeanette Sylvester
1994	William Harmon	Richard R. Blais
1995	James Robinson	Donald McCubrey
1996	Donald Dube	Armand N. Houle
1997	Alice Ames	John H. Gerber
1998	Donald Dube	Ernie & Eleanor Goodwin
1999	Robert Miles, Sr.	Harland Hasey
2000	Shirley L'Heureux	Warren G. Lang
2001		Alan R. Urell
2002	James Robinson	Janey Miles
2003		Eric Whitten
2004		Donald Dube
2005		Salvatore Raia
2006		Caroll Houle
2007	Ronald Dunsmoor	Sonny Blake
2008		Ronald Dunsmoor
2009		Phyllis Waltz
2010		Don Rutherford
2011		Kim Girard
2012		William E. Miles, Jr.
2013		Don Farnham
2014		Marlowe LeBarge
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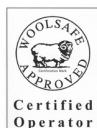
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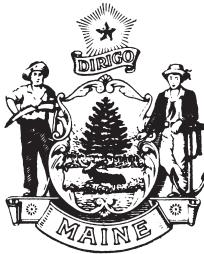
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*(Currently 3 members serving)*

#### BOARD MEMBER NAME

**Percy L. Brown, Jr.**

#### SEAT QUALIFICATION DESCRIPTION

Master Plumber

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**Nicholas Adams**

Master Plumber who has been engaged in plumbing inspections for at least 4 years and is employed by a municipality

**Robert B. Hodgkin**

Master Plumber

**VACANT**

Public Member

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DEPARTMENT OF PROFESSIONAL AND FINANCIAL REGULATION  
OFFICE OF LICENSING AND REGISTRATION

## MAINE FUEL BOARD

### 9 Member Board

(Currently 5 members serving)

BOARD MEMBER NAME	SEAT QUALIFICATION DESCRIPTION
<b>Mark Bossie</b> , Board Chairperson	Propane and Natural Gas Technician and works in the natural gas industry
<b>David Foster</b>	Master Oil Burner Technician with the solid fuel authority
<b>Loren Gordon</b>	Master Oil Burner Technician
<b>Maynard W. Waltz, Jr.</b>	Propane and Natural Gas Technician
<b>Mark Anderson</b>	Propane and Natural Gas Technician
<b>Paul F. McClay</b>	Public Member
<b>Richard McCarthy</b>	Appointed by the Commissioner of Public Safety as the Commissioner's representative
<b>Beau Libby</b>	Master Oil Burner Technician and Propane and Natural Gas Technician
<b>VACANT</b>	Master Oil Burner Technician with the master solid fuel authority

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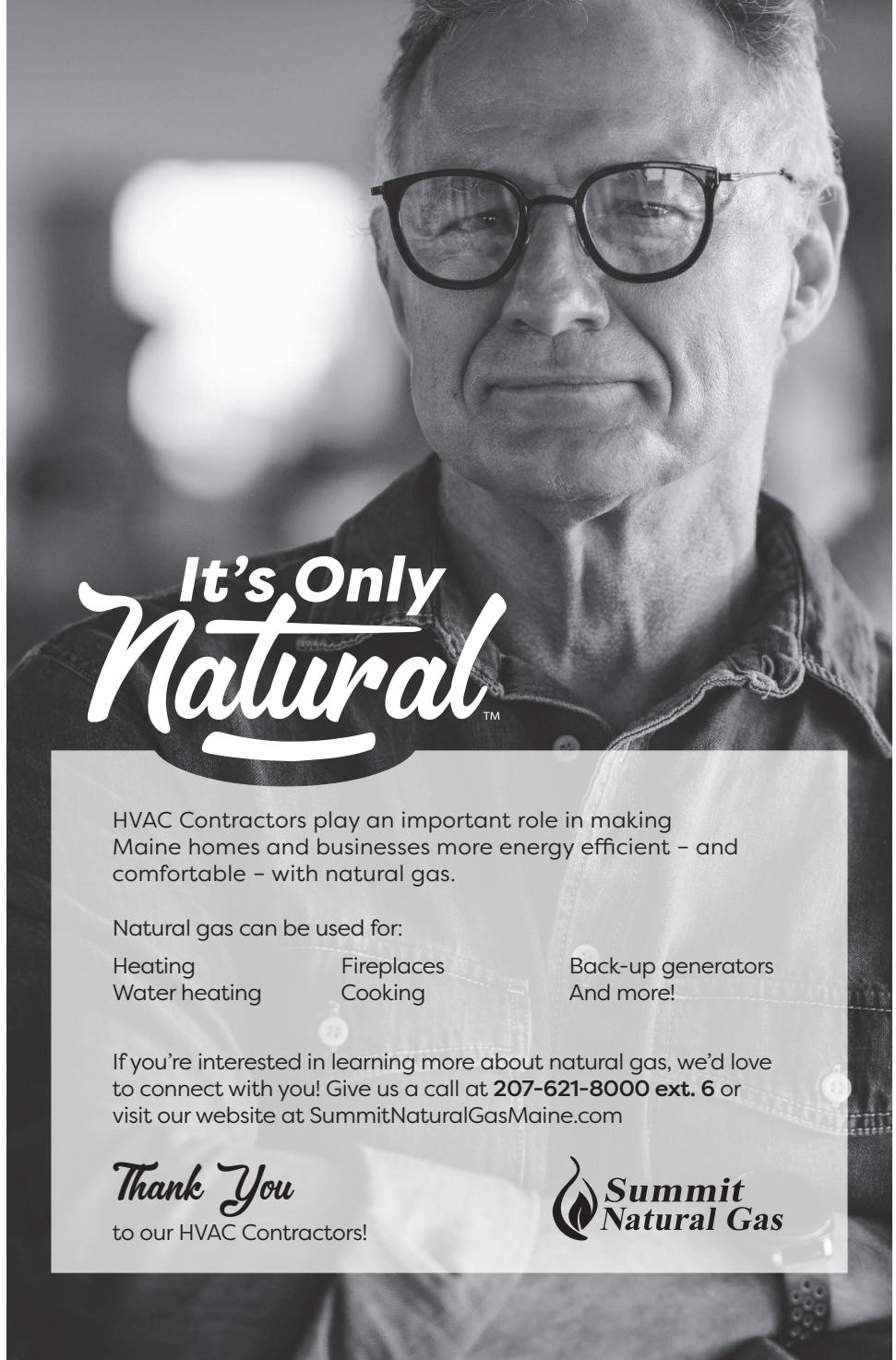
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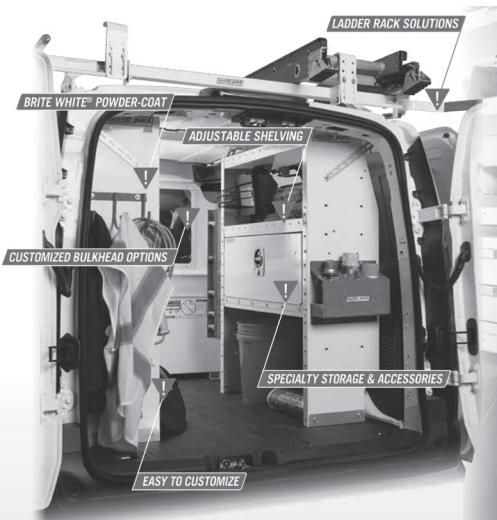


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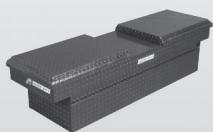
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## PLUMBING SYMBOLS

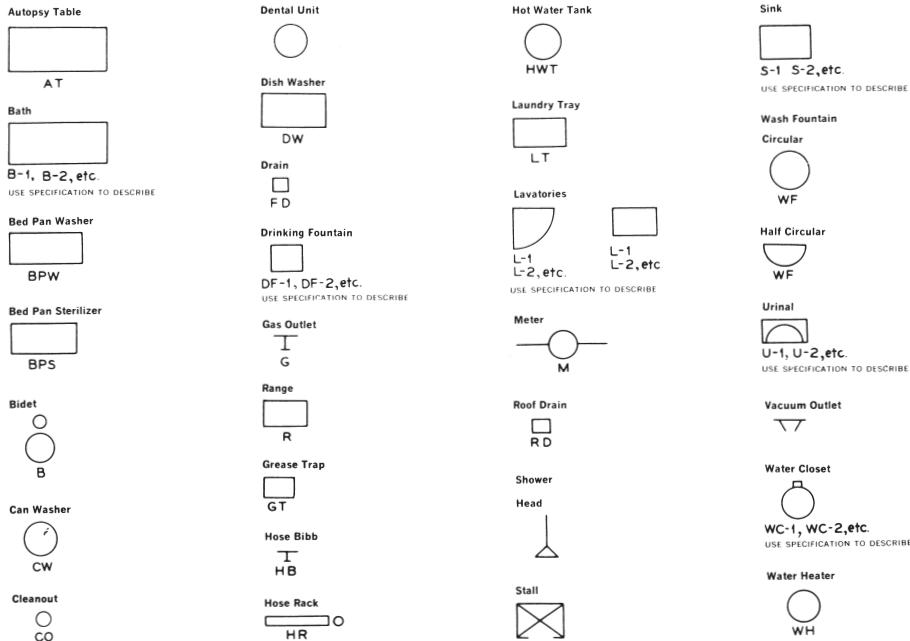
This standard has been developed by the ASA Sectional Committee on Standardization of Graphical Symbols and Abbreviations for Use on Drawings, Y32. The work of this committee is under the joint sponsorship of the American Institute of Electrical Engineers and the American Society of Mechanical Engineers.

This standard, one of a group which will ultimately replace the present American Standard Graphical Symbols for Use on Drawings and Mechanical Engineering, Z32.2-1949, replaces pages 4 through 9 of Z32.2-1949.

In preparing this list of Plumbing Symbols for Use on Drawings, Architects and Engineers were contacted in Boston, Chicago, New York, Philadelphia and Pittsburgh, as well as the resources of the two largest manufacturers of plumbing goods.

Based on the information made available to the committee, the symbols shown are a minimum requirement.

Following approval of the sectional committee and sponsor organizations, the proposal was presented to the American Standards Association for approval and designation as an American Standard. This was granted on October 11, 1955.



## FITTING & VALVE SYMBOLS

	Flanged	Screwed	Bell & Spigot	Welded	Soldered		Flanged	Screwed	Bell & Spigot	Welded	Soldered
<b>Bushing</b>						<b>Crossover</b>					
<b>Cap</b>						<b>45° Elbow</b>					
<b>Reducing Cross</b>						<b>90° Elbow</b>					
<b>Straight Size Cross</b>						<b>Turned Down</b>					
						<b>Turned Up</b>					

## AIR CONDITIONING SYMBOLS

**Immersion Cooling Unit**



**Receiver, Vertical**



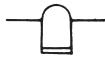
**Valve, Evaporator Pressure Regulating, Thermostatic Throttling Type**



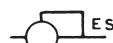
**Low Side Float**



**Scale Trap**



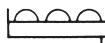
**Valve, Evaporator Pressure Regulating, Throttling Type (Evaporator Side)**



**Motor-Compressor, Enclosed Crankcase, Reciprocating, Direct Connected**



**Spray Pond**



**Valve, Hand Expansion**



**Motor-Compressor, Enclosed Crankcase, Rotary, Direct Connected**



**Thermal Bulb**



**Valve, Magnetic Stop**



**Motor-Compressor, Sealed Crankcase, Reciprocating**



**Thermostat (Remote Bulb)**



**Valve, Snap Action**



**Motor-Compressor, Sealed Crankcase, Rotary**



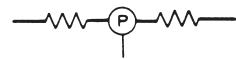
**Valve, Automatic Expansion**



**Valve, Suction Vapor Regulating**



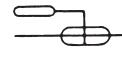
**Pressurestat**



**Valve, Compressor Suction Pressure Limiting, Throttling Type (Compressor Side)**



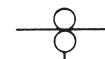
**Valve, Thermo Suction**



**Pressure Switch**



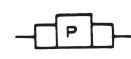
**Valve, Constant Pressure, Suction**



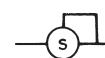
**Valve, Thermostatic Expansion**



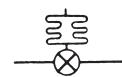
**Pressure Switch with High Pressure Cut-Out**



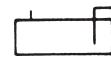
**Valve, Evaporator Pressure Regulating, Snap Action**



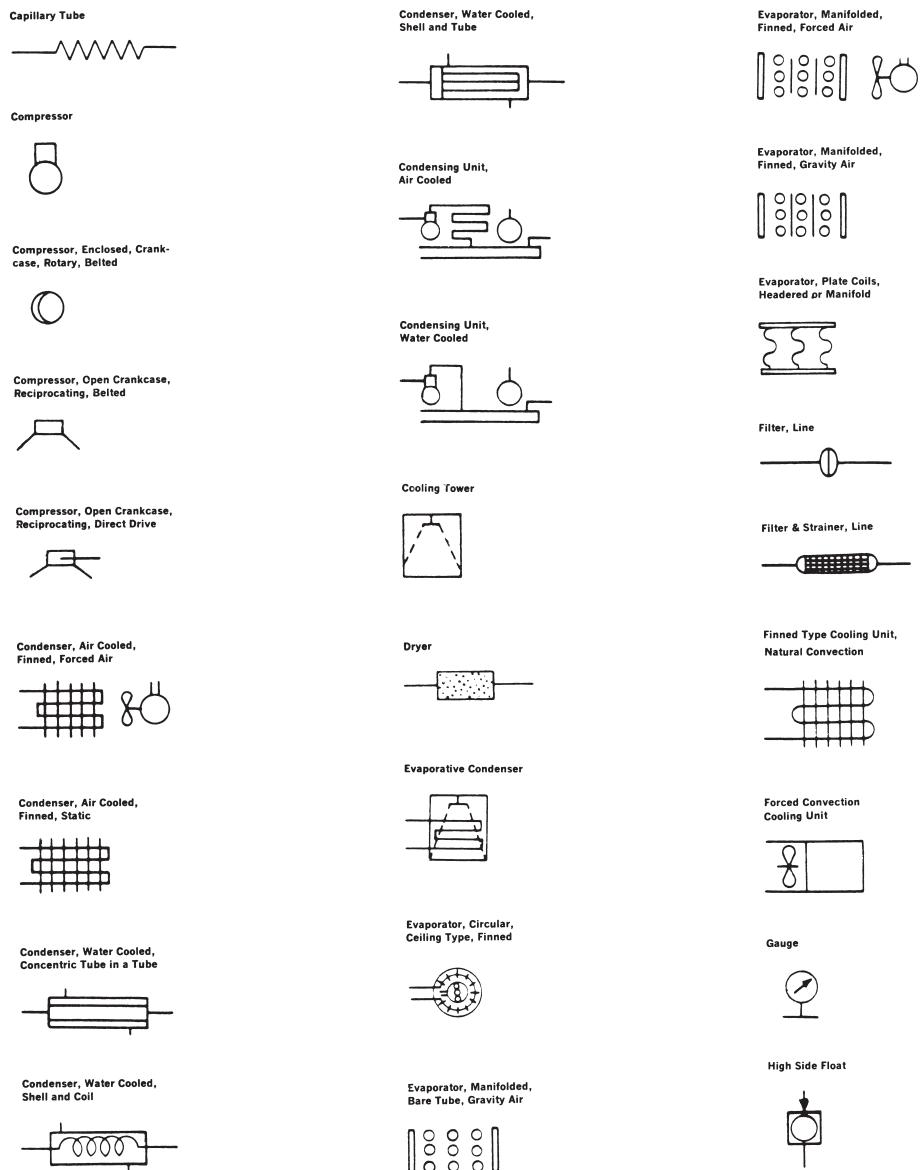
**Valve, Water**



**Receiver, Horizontal**



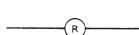
## AIR CONDITIONING SYMBOLS



## HEATING SYMBOLS



Lock and Shield Valve



Relief Valve (either pressure or vacuum)



Reducing Pressure Valve



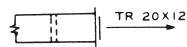
Vent Point

## VENTILATING SYMBOLS

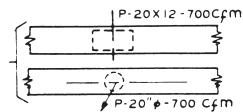
Access Door



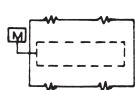
Adjustable Blank Off



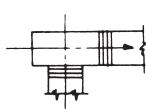
Adjustable Plaque



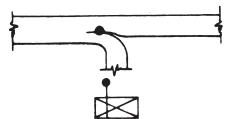
Automatic Dampers



Canvas Connections



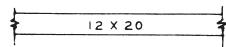
Deflecting Damper



Direction of Flow



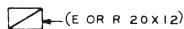
Duct (1st Figure, Side Shown;  
2nd Side Not Shown)



Inclined Rise in Respect  
to Air Flow



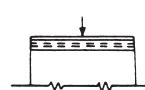
Duct Section  
(Exhaust or Return)



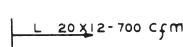
Duct Section (Supply)



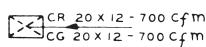
Intake Louvers on Screen



Louver Opening



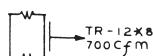
Exhaust Inlet Ceiling  
(Indicate Type)



Supply Outlet Ceiling  
(Indicate Type)



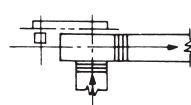
Exhaust Inlet Wall  
(Indicate Type)



Supply Outlet Wall  
(Indicate Type)



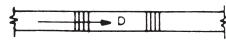
Fan and Motor with  
Belt Guard



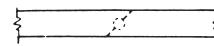
Vanes



Inclined Drop in Respect  
to Air Flow



Volume Damper

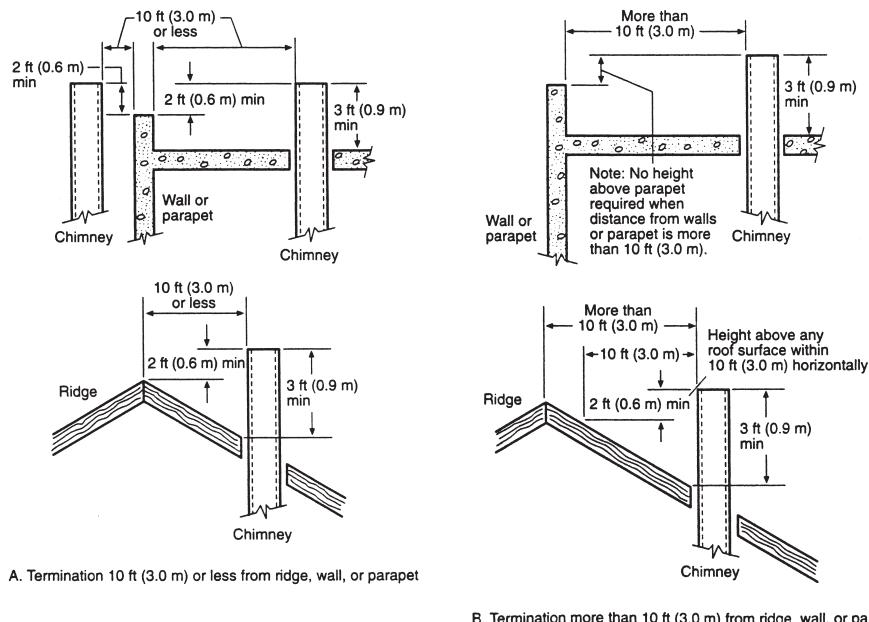


## PIPING SYMBOLS

	<b>AIR CONDITIONING</b>		
— — — — — B R — — — —	Brine Return	— — — — —	Low-Pressure Return
— — — — — B — — — —	Brine Supply	— — — — —	Low-Pressure Steam
— — — — — C H — — — —	Circulating Chilled or Hot-Water Flow	— — — — —	Make-Up Water
— — — — — C H R — — — —	Circulating Chilled or Hot-Water Return	— — — — —	Medium Pressure Return
— — — — — C — — — —	Condenser Water Flow	— — — — —	Medium Pressure Steam
— — — — — C R — — — —	Condenser Water Return	— — — — —	<b>PLUMBING</b>
— — — — — D — — — —	Drain	— — — — — A C I D	Acid Waste
— — — — — H — — — —	Humidification Line	— — — — —	Cold Water
— — — — — R D — — — —	Make-Up Water	— — — — — A	Compressed Air
— — — — — R L — — — —	Refrigerant Discharge	— — — — —	Drinking-Water Flow
— — — — — R S — — — —	Refrigerant Liquid	— — — — —	Drinking-Water Return
— — — — —	Refrigerant Suction	— — — — — F F	Fire Line
— — — — —	<b>HEATING</b>	— — — — — G G	Gas
— — — — —	Air-Relief Line	— — — — —	Hot Water
— — — — —	Boiler Blow Off	— — — — —	Hot-Water Return
— — — — — A — — — —	Compressed Air	— — — — —	Soil, Waste or Leader (Above Grade)
— — — — — O — — — — O — — — — O	Condensate or Vacuum Pump Discharge	— — — — —	Soil, Waste or Leader (Below Grade)
— — — — — O O — — — — O O — — — — O	Feedwater Pump Discharge	— — — — —	Vacuum Cleaning
— — — — — F O F — — — —	Fuel-Oil Flow	— — — — — V V	Vent
— — — — — F O R — — — —	Fuel-Oil Return	— — — — —	<b>PNEUMATIC TUBES</b>
— — — — — F O V — — — —	Fuel-Oil Tank Vent	— — — — —	Tube Runs
— — — — — H — — — — H — — — — H	High-Pressure Return	— — — — —	<b>SPRINKLERS</b>
— — — — — H — — — — H — — — — H	High-Pressure Steam	— — — — — O O	Branch and Head
— — — — —	Hot-Water Heating Return	— — — — — S S	Drain
— — — — —	Hot-Water Heating Supply	— — — — — S	Main Supplies

## HEATING SYMBOLS

— — — — —  — — — —	Air Eliminator	— — — — —  — — — —	Thermostat
— — — — —  P A — — — —	Anchor	— — — — —  — — — —	Boiler Return Trap
— — — — —  H — — — —	Hanger or Support	— — — — —  — — — —	Blast Thermostatic Trap
— — — — —  — — — —	Heat Exchanger	— — — — —  — — — —	Float Trap
— — — — —  — — — —	Heat Transfer Surface, Plan (Indicate type such as: convector)	— — — — —  — — — —	Float & Thermostatic Trap
— — — — —  — — — —	Pump (Indicate type such as: vacuum)	— — — — —  — — — —	Thermostatic Trap
— — — — —  — — — —	Strainer	— — — — —  — — — —	Unit Heater (Centrifugal Fan), Plan
— — — — —  R E C — — — —	Tank (designate type)	— — — — —  — — — —	Unit Heater (Propeller), Plan
— — — — —  — — — —	Thermometer	— — — — —  — — — —	Unit Ventilator, Plan



B. Termination more than 10 ft (3.0 m) from ridge, wall, or parapet

Figure 12. Typical Termination Locations for Chimneys and Single-Wall Metal Pipes Serving Residential-Type and Low-Heat Equipment.

#### 7.5.4 Inspection of Chimneys.

(a) Before replacing an existing appliance or connecting a vent connector to a chimney, the chimney passageway shall be examined to ascertain that it is properly lined, clear and free of obstructions and shall be cleaned if previously used for venting solid or liquid fuel-burning appliances or fireplaces.

*Exception: Where permitted by the authority having jurisdiction, existing chimneys shall be permitted to have their use continued when an appliance is replaced by an appliance of similar type, input rating, and efficiency.*

(b) Cleanouts shall be examined to determine they will remain tightly closed when not in use.

(c) When inspection reveals that an existing chimney is not safe for the intended application, it shall be repaired, rebuilt, relined, or replaced with a vent or chimney to conform to *Standard for Chimneys, Fireplaces, Vents, and Solid Fuel-Burning Appliances*, NFPA 211, or local building codes, and shall be suitable for the equipment to be attached.

**Table XIII Gas Input to Burner in Cubic Feet per Hour**

Seconds for One Revolution	One-Half Cu Ft	Size of Test Meter Dial		
		One Cu Ft	Two Cu Ft	Five Cu Ft
		Cubic Ft per Hour		
10	180	360	720	1,800
11	164	327	655	1,636
12	150	300	600	1,500
13	138	277	555	1,385
14	129	257	514	1,286
15	120	240	480	1,200
16	112	225	450	1,125
17	106	212	424	1,059
18	100	200	400	1,000
19	95	189	379	947
20	90	180	360	900
21	86	171	343	857
22	82	164	327	818
23	78	157	313	783
24	75	150	300	750
25	72	144	288	720
26	69	138	277	692
27	67	133	267	667
28	64	129	257	643
29	62	124	248	621
30	60	120	240	600
31	58	116	232	581
32	56	113	225	563
33	55	109	218	545
34	53	106	212	529
35	51	103	206	514
36	50	100	200	500
37	49	97	195	486
38	47	95	189	474
39	46	92	185	462
40	45	90	180	450
41	44	88	176	440
42	43	86	172	430
43	42	84	167	420
44	41	82	164	410
45	40	80	160	400
46	39	78	157	391
47	38	77	153	383
48	37	75	150	375
49	37	73	147	367

NOTE: To convert to Btu per hour, multiply by the Btu heating value of the gas used.



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# What Is The INTERNATIONAL CODE COUNCIL (ICC)?

*The International Code Council is the leading global source of model codes and standards and building safety solutions. Code Council codes, standards and solutions are used to ensure safe, affordable and sustainable communities and buildings worldwide.*

- Dedicated to all aspects of building safety including fire prevention, plumbing and sanitation, property maintenance, energy efficiency and resilience.
- Mission: provide the codes, tools, and resources that members rely on, building safety professionals turn to, and manufacturers and the public trust.
- Administers the development and maintenance of 15 model codes and 8 standards used to construct residential and commercial buildings in the U.S. including schools and hospitals.
- Not for profit organization.
- 64,000 members.
- 394 state and local chapters throughout the United States.
- Founding members include the National Association of Home Builders (NAHB), the American Institute of Architects (AIA), the American Gas Association (AGA), the Building Owners and Managers Association (BOMA) and the National Multifamily Housing Council (NMHC).

## The Importance of Strong, Updated Building Codes

- According to the U.S. Environmental Protection Agency, the average person spends nearly 90% of their life inside buildings.
- Model codes set minimum requirements for building design, construction and operation to protect public health, safety and the natural resources that sustain us.
- The process of updating model codes every three years is optimal to ensure new technologies, materials and methods can be incorporated into the next generation of buildings to help us build better, smarter buildings as cost effectively as possible.
- Research has shown that strong building codes are our first and best line of defense against natural disasters.
- A National Institute of Building Sciences (NIBS) study concluded, on average, every \$1 spent on mitigation at the federal level saves \$11 in disaster relief.

## Where are the International Codes (I-Codes) Adopted?

Turn the page to find out more ►

## Where are the International Codes (I-Codes) Adopted?

- The International Building Code (IBC) is adopted in all 50 states and the District of Columbia.
- The International Fire Code (IFC) is in use in 41 states and the District of Columbia.
- The International Residential Code (IRC) is in use in 49 states and the District of Columbia.
- The International Plumbing Code (IPC) is in use in 37 states and the District of Columbia.
- The International Mechanical Code (IMC) is in use in 46 states and the District of Columbia.
- The International Codes are in use in Puerto Rico, Guam, U.S. Virgin Islands, American Samoa and the Northern Mariana Islands.

## The Importance of the Code Council

- Updated codes promote safe, resilient, efficient, and cost effective construction.
- Current codes protect the building owner's investment, enhance safety and foster innovation in the marketplace.
- For consumers, updated codes mean lower maintenance costs such as lower energy and water bills, less mechanical noise, and an overall higher quality of life.
- Current building codes spur innovation and are an incentive for American manufacturers to invest in product development.
- Current building codes also create a demand for new jobs including code enforcers, technical experts, tradesmen, construction workers, quality control assessors, and building and systems commissioning agents.

## Code Council Solutions

- Codes & Standards
- Membership
- Product Evaluation & Testing
- Accreditation
- Professional Development & Training
- Software & Technology
- Consulting

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**Table XIII** continued

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Seconds for One Revolution	One-Half Cu Ft	Size of Test Meter Dial		
		One Cu Ft	Two Cu Ft	Five Cu Ft
		Cubic Ft per Hour		
50	36	72	144	360
51	35	71	141	353
52	35	69	138	346
53	34	68	136	340
54	33	67	133	333
55	33	65	131	327
56	32	64	129	321
57	32	63	126	316
58	31	62	124	310
59	30	61	122	305
60	30	60	120	300
62	29	58	116	290
64	29	56	112	281
66	29	54	109	273
68	28	53	106	265
70	26	51	103	257
72	25	50	100	250
74	24	48	97	243
76	24	47	95	237
78	23	46	92	231
80	22	45	90	225
82	22	44	88	220
84	21	43	86	214
86	21	42	84	209
88	20	41	82	205
90	20	40	80	200
94	19	38	76	192
98	18	37	74	184
100	18	36	72	180
104	17	35	69	173
108	17	33	67	167
112	16	32	64	161
116	15	31	62	155
120	15	30	60	150
130	14	28	55	138
140	13	26	51	129
150	12	24	48	120
160	11	22	45	112
170	11	21	42	106
180	10	20	40	100

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NOTE: To convert to Btu per hour, multiply by the Btu heating value of the gas used.

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Appliance Category†	Vent Pressure	Temperature Above/Below Defined in Relevant ANSI Standard	Comment
I	Non-Positive*	Above	Natural draft venting
II	Non-Positive*	Below	Materials must be corrosion resistant. Condensate must be drained.
III	Positive**	Above	Vent must be gastight.
IV	Positive**	Below	Vent must be liquid and gastight. Condensate must be drained.

\*Non-positive vent pressure means that even if fans or blowers are used in the appliance or vent systems, venting is accomplished by natural draft. (The vent pressure is lower than the atmospheric pressure.)

\*\*Positive vent pressure means that fans, blowers, or other means are used to propel vent gases through the vent at above atmospheric pressure.

†The newer models of appliances will be identified as Category I, II, III, or IV on the nameplate on the appliance and will be stated as such in the manufacturers' installation instructions.

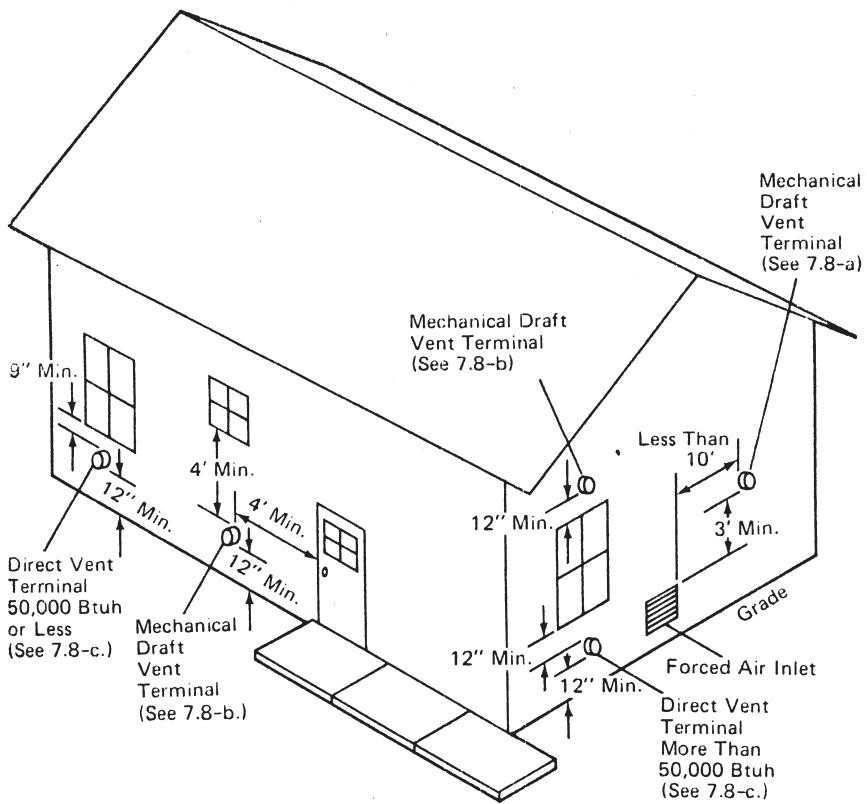
#### **7.4.2 Plastic Piping.** Approved plastic piping shall be permitted to be used for venting equipment listed for use with such venting materials.

Prior to the introduction of high efficiency gas utilization equipment, plastic was prohibited as a vent material. High efficiency appliances reduced vent temperatures resulting in condensate formation, and as accumulation of condensate became a problem, plastic became the preferred material. Note that plastic vent materials can be used for listed gas utilization equipment only when specified in the manufacturers' instructions.

#### **7.4.3 Special Gas Vent.** Special gas vent shall be listed and installed in accordance with the terms of the special gas vent listing and the manufacturers' instructions.

Special gas vents are listed in accordance with UL 1738, *Standard for Safe Venting Systems for Gas-Burning Appliances*. Special gas vents will include in their installation instructions limitations on operating temperature, categories of appliance to be used with, clearance to combustible materials, and requirements for a vent cap, if any. All special gas vents are listed.

### Condensation Drain



For SI units: 1 foot = 0.305 m; 1 inch = 2.54 cm; 1 Btu per hour = 0.293 watts

**Figure A.7.8.** Exit Terminals of Mechanical Draft and Direct Vent Venting Systems.

*from the NATIONAL FUEL GAS CODE HANDBOOK*

**Maximum Capacity of Pipe in Cubic Feet of Natural Gas per Hour for Gas Pressures of 0.5 psig  
or Less and a Pressure Drop of 0.5 Inch Water Column**

**(Based on a 0.60 Specific Gravity Gas)**

Nominal Iron Pipe Size, Inches	Internal Diameter, Inches	Length of Pipe, Feet													
		10	20	30	40	50	60	70	80	90	100	125	150	175	200
$\frac{1}{4}$	.364	43	29	24	20	18	16	15	14	13	12	11	10	9	8
$\frac{3}{8}$	.493	95	65	52	45	40	36	33	31	29	27	24	22	20	19
$\frac{1}{2}$	.622	175	120	97	82	73	66	61	57	53	50	44	40	37	35
$\frac{5}{8}$	.824	360	250	200	170	151	138	125	118	110	103	93	84	77	72
1	1.049	680	465	375	320	285	260	240	220	205	195	175	160	145	135
$1\frac{1}{4}$	1.380	950	770	660	580	530	490	460	430	400	360	325	300	280	
$1\frac{1}{2}$	1.610	2,100	1,460	1,180	990	900	810	750	690	650	620	550	500	460	430
2	2.067	3,950	2,750	2,200	1,900	1,680	1,520	1,400	1,300	1,220	1,150	1,020	950	850	800
$2\frac{1}{2}$	2.469	6,300	4,350	3,520	3,000	2,650	2,400	2,250	2,050	1,950	1,850	1,650	1,500	1,370	1,280
3	3.068	11,000	7,700	6,250	5,300	4,750	4,300	3,900	3,700	3,450	3,250	2,950	2,650	2,450	2,280
4	4.026	23,000	15,800	12,800	10,900	9,700	8,800	8,100	7,500	7,200	6,700	6,000	5,500	5,000	4,600

*from the NATIONAL FUEL GAS CODE HANDBOOK*

**Table 10-26 Pipe Sizing**  
**Sizing between Single or Second Stage (Low Pressure Regulator) and Appliance**

Maximum undiluted propane capacities listed are based on 11 inch water column setting and a 0.5 inch water column pressure drop.

Capacities in 1000 Btu/hr

Pipe Length (Feet)	Nominal Pipe Size, Schedule 40							
	1/2" 0.622	5/8" 0.824	1" 1.049	1 1/4" 1.38	1 1/2" 1.61	2" 2.067	3" 3.068	3 1/2" 3.548
10	291	608	1146	2353	3525	6789	19130	28008
20	200	418	788	1617	2423	4666	13148	19250
30	161	336	632	1299	1946	3747	10558	15458
40	137	287	541	1111	1665	3207	9036	13230
50	122	255	480	985	1476	2842	8009	11726
60	110	231	435	892	1337	2575	7256	10625
80	94	198	372	764	1144	2204	6211	9093
100	84	175	330	677	1014	1954	5504	8059
125	74	155	292	600	899	1731	4878	7143
150	67	141	265	544	815	1569	4420	6472
200	58	120	227	465	697	1343	3783	5539
250	51	107	201	412	618	1190	3353	4909
300	46	97	182	374	560	1078	3038	4448
350	43	89	167	344	515	992	2795	4092
400	40	83	156	320	479	923	2600	3807

**Table 10-27 Copper Tube Sizing**  
**Sizing between First Stage (High Pressure Regulator) and**  
**Second Stage (Low Pressure Regulator)**

Maximum undiluted propane capacities listed are based on a 10 psi first stage setting and 1 psi drop.

Capacities in 1000 Btu/hr

Tubing Length (Feet)	Outside Diameter Copper Tubing, Type L				
	5/8" 0.315	1/2" 0.430	5/8" 0.545	3/4" 0.666	7/8" 0.785
30	309	700	1303	2205	3394
40	265	599	1115	1887	2904
50	235	531	988	1672	2574
60	213	481	896	1515	2332
70	196	443	824	1394	2146
80	182	412	767	1297	1996
90	171	386	719	1217	1873
100	161	365	679	1149	1769
150	130	293	546	923	1421
200	111	251	467	790	1216
250	90	222	414	700	1078
300	89	201	375	634	976
350	82	185	345	584	898
400	76	172	321	543	836
450	71	162	301	509	784
500	68	153	284	481	741
600	61	138	258	436	671
700	56	127	237	401	617
800	52	118	221	373	574
900	49	111	207	350	539
1000	46	105	195	331	509
1500	37	84	157	266	409
2000	32	72	134	227	350

**Table 10-28 Copper Tube Sizing**  
**Sizing between Single or Second Stage (Low Pressure Regulator) and Appliance**

Maximum undiluted propane capacities are based on 11 inch water column setting and a 0.5 inch water column pressure drop.

Capacities in 1000 Btu/hr

Tubing Length (Feet)	Outside Diameter Copper Tubing, Type L				
	5/8" 0.315	1/2" 0.430	5/8" 0.545	3/4" 0.666	7/8" 0.785
10	49	110	206	348	536
20	34	76	141	239	368
30	27	61	114	192	296
40	23	52	97	164	253
50	20	46	86	146	224
60	19	42	78	132	203
80	16	36	67	113	174
100	14	32	59	100	154
125	12	28	52	89	137
150	11	26	48	80	124
200	10	22	41	69	106
250	9	19	36	61	94
300	8	18	33	55	85
350	7	16	30	51	78
400	7	15	28	47	73

Based on Propane Fuel NFPA #54, 1996 Edition

## Information About LP-Gas \*

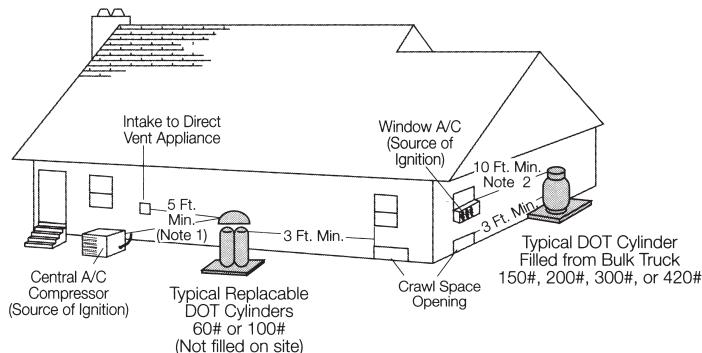
	Propane	Butane
Formula	C <sub>3</sub> H <sub>8</sub>	C <sub>4</sub> H <sub>10</sub>
Boiling Point, °F	-44	32
Specific Gravity of Gas (Air= 1.00)	1.53	2.00
Specific Gravity of Liquid (Water= 1.00)	0.51	0.58
Lbs. per Gallon of Liquid at 60 °F	4.24	4.81
BTU per Gallon of Gas at 60 °F	91690	102032
BTU per Lb. of Gas	21591	21221
BTU per Cu. Ft. of Gas at 60 °F	2516	3280
Cu. Ft. of Vapor at 60 °F/Gal. of Liquid at 60 °F	36.39	31.26
Cu. Ft. of Vapor at 60 °F/Lb. of Liquid at 60 °F	8.547	6.506
Latent Heat of Vaporization at Boiling Point BTU/Gal.	785.0	808.0
Combustion Data:		
Cu. Ft. Air Required to Burn 1 Cu. Ft. Gas	23.86	31.02
Flash Point, °F	-156	N.A.
Ignition Temperature in Air, °F	920-1020	900-1000
Maximum Flame Temperature in Air, °F	3595	3615
Limits of Flammability, Percentage of Gas in Air Mixture;		
At Lower Limit—%	2.4	1.9
At Upper Limit—%	9.6	8.6
Octane Number (ISO-Octane=100)	Over 100	92

\* Commercial quality. Figures shown in this chart represent average values.

## Location of DOT Cylinders

From NFPA 58, Appendix G

Federal, state, and local ordinances and regulations should be observed at all times.



- Notes: 1) 5 foot minimum between relief valve discharge and external source of ignition (air conditioner), direct vent, or mechanical ventilation system (attic fan).  
 2) If the DOT cylinder is filled on-site from a bulk truck, the filling connection and vent valve must be at least 10 feet from any external source of ignition, direct vent, or mechanical ventilation system.

**TANKS**  
**HOT WATER STORAGE TANKS AND GENERATORS**

Size Inches	Capacity Gallons	Weight Pounds	Size Inches	Capacity Gallons	Weight Pounds
20 × 46"	53	165	48 × 104"	840	1750
20 × 58"	80	205	48 × 140"	1125	2240
24 × 47"	92	230	48 × 164"	1315	2560
24 × 59"	115	280	48 × 188"	1505	2900
24 × 71"	140	325	48 × 212"	1690	3200
24 × 83"	160	380	48 × 260"	2065	3870
30 × 60"	190	495	54 × 120"	1220	2740
30 × 72"	220	590	54 × 144"	1460	3200
30 × 84"	270	670	54 × 168"	1700	3650
30 × 96"	305	770	54 × 216"	2080	4570
30 × 120"	340	945	60 × 124"	1580	3400
30 × 132"	415	1030	60 × 148"	1870	3970
36 × 72"	350	800	60 × 196"	2450	5100
36 × 88"	400	880	60 × 220"	2740	5680
36 × 96"	450	990	60 × 280"	3465	7100
36 × 112"	500	1090	72 × 223"	3940	7120
36 × 136"	600	1300	72 × 319"	5630	9500
42 × 90"	580	1310	72 × 415"	7325	11700
42 × 102"	650	1460	84 × 168"	4040	9100
42 × 114"	720	1600	84 × 192"	4630	10000
42 × 138"	865	1900	96 × 174"	5400	11900
42 × 162"	1005	2180	96 × 198"	6660	12800
42 × 186"	1050	2460	96 × 246"	7680	15000

**FUEL OIL TANKS (UL-LABEL)**

Size Inches	Capacity Gallons	Weight Pounds	Size Inches	Capacity Gallons	Weight Pounds
30 × 90"	275	240	90 × 18'-0"	5948	5400
42 × 94"	560	350	90 × 20'-0"	6600	6800
48 × 65"	510	320	90 × 24'-0"	7900	7200
48 × 128"	1004	930	90 × 28'-0"	9254	8300
64 × 72"	1016	950	90 × 32'-0"	10576	9000
64 × 143"	1990	2000	120 × 16'-0"	9450	7400
64 × 17'-10"	2980	2900	120 × 20'-0"	11750	8700
64 × 23'-8"	3950	4100	120 × 24'-0"	14100	10000
90 × 12'-0"	3966	4200	120 × 28'-0"	16500	11000
90 × 16'-0"	5288	5100	120 × 32'-0"	18750	13000

**CONVERSION FACTORS**

MULTIPLY BY	BY	TO OBTAIN	MULTIPLY BY	BY	TO OBTAIN
Angstrom units	$3.939 \times 10^{-9}$	Inches	Calories (large)	3.968	British thermal units
Angstrom units	.0001	Microns	Calories (large) per hour	.1619	Watt-hours
Atmospheres	760.0	Millimeters of mercury (at 32°F)	Calories (large) per hour	3.968	Btu per hour
Atmospheres	29.921	Indches of mercury (at 32°F)	Calories (large) per hour	.00156	Horsepower
Atmospheres	33.97	Feet of water (at 62°F)	Calories (small) per cm. per sq. cm. per hr. per C	.8064	Btu per inch per sq. ft. per hr. per F
Atmospheres	10,333.0	Kilograms per square meter	Centimeters	0.3937	Inches
Atmospheres	14,697	Pounds per square inch	Centimeters of mercury	0.01316	Atmospheres
Barrels (U.S. liquid)	4.211	Cubic feet	Centimeters of mercury	0.4461	Feet of water
Barrels (U.S. liquid)	31.5	Gallons	Centimeters of mercury	136.0	Kilograms per square meter
Barrels (oil)	.42	Btu per hour	Centimeters of mercury		
Boiler horsepower	33.475	Pounds water evaporated from and at 212°F	Centimeters of mercury	27.85	Pounds per square foot
Boiler horsepower	34.5	Tons of refrigeration (U.S.)	Centimeters of mercury	0.1934	Pounds per square inch
British tons of refrigeration (commercial)	1.1045	Tons of refrigeration (U.S.)	Centimeters of mercury	0.0002642	Cubic inches
British tons of refrigeration (theoretical)	1.1905	Calories (large)	Centimeters of mercury	0.028317	Gallons
Btu	.252	Calories (small)	Centimeters of mercury	1,728.0	Cubic meters
Btu	252	Foot pounds	Centimeters of mercury	7.48052	Gallons
Btu	778	Horsepower hour	Centimeters of mercury	28.32	Liters
Btu	.000393	Kilowatts hour	Centimeters of mercury	62.37	Pounds (at 60°F)
Btu	.000393	Pounds water evaporated from and at 212°F	Centimeters of mercury	472.0	Cubic centimeters per sec.
Btu	.0010307	Tons of refrigeration	Centimeters of mercury	0.1247	Centimeters per second
Btu per 24 hours	$3.47 \times 10^{-5}$	Boiler horsepower	Centimeters of mercury	0.4720	Liters per second
Btu per hour	$2.986 \times 10^{-4}$	Calories (large) per hour	Centimeters of mercury	16.39	Cubic centimeters
Btu per hour	.252	Horsepower	Centimeters of mercury	35.3145	Cubic feet
Btu per hour	.000393	Kilowatts	Centimeters of mercury	61,023.0	Cubic inches
Btu per hour per square foot	.000293	Calories (small) per hour	Centimeters of mercury	264.2	Gallons
Btu per hour per square foot	.2712	per square centimeter	Centimeters of mercury	30.48	Centimeters
Btu per hour per square foot per F	.488	Calories (small) per hour per square centimeter per C	Centimeters of mercury	0.3048	Meters
Btu per pound	.5556	Calories (large) per kilo- gram	Centimeters of mercury	0.881	Inches of mercury (at 32°F)
Btu per inch per square foot per hour per F	.0833	Btu per foot per sq. ft. per hour per F	Centimeters of mercury	304.8	Kilograms per square meter
Btu per inch per square foot per hour per F	1.24	Calories (small) per centi- meter per sq. cm. per hr. per C	Feet per second	62.37	Pounds per square foot
		Gallons (U.S.)	Feet of water	0.4335	Feet of water
		Gallons (U.S.)	Feet per minute	0.5080	Feet per minute
		Gallons (U.S.)	Feet per minute	0.01667	Feet per second
		Gallons (U.S.)	Foot-pounds	0.3048	Meters per minute
		Gallons (U.S.)	Feet per second	0.001286	British thermal units
		Gallons (U.S.)	Feet per second	30.48	Centimeters per second
		Gallons (U.S.)	Metres per minute	18.29	Meters per minute
		Gallons (U.S.)	Metres per second	3.785.0	Cubic centimeters
		Gallons (U.S.)	Metres per second	0.1337	Cubic feet
		Gallons (U.S.)	Metres per second	231.0	Cubic inches
		Gallons (U.S.)	Metres per second	0.003785	Cubic meters
		Gallons (U.S.)	Metres per second	3.7853	Liters

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MULTIPLY	BY	TO OBTAIN	MULTIPLY	BY	TO OBTAIN
Gallons of water	8.3453	Pounds of water (at 60°F)	Meters per minute	3.281	Feet per minute
Gallons per minute	0.06308	Liters per second	Meters per minute	0.05468	Feet per second
Grains	15.432	Grains	Meters per second	196.8	Feet per minute
Grains	.0648	Foot pounds per minute	Meters per second	3.281	Feet per second
Horsepower	33.000.0	British thermal units per hour	Miles	1.60935	Kilometers
Horsepower	2,546.0	British thermal units per hour	Pounds		
Horsepower	42.42	British thermal units per minute	Pounds	7,000.0	Grains
Horsepower	1.014	Horsepower (metric)	Pounds	0.45359	Kilograms
Horsepower	0.7457	Kilowatts	Pounds	0.01602	Cubic feet
Horsepower (boiler)	33.475	British thermal units per hour	Pounds	27.68	Cubic inches
Inches	2.540	Centimeters	Pounds of water (at 60°F)	0.1198	Gallons
Inches of mercury (at 62°F)	.03342	Atmospheres	Pounds of water (at 60°F)		
Inches of mercury (at 62°F)	13.57	Inches of water (at 62°F)	Pounds of water evaporated from and at 212°F		
Inches of mercury (at 62°F)	1.131	Feet of water (at 62°F)	Pounds of water evaporated from and at 212°F	0.284	Horsepower hours
Inches of mercury (at 62°F)	345.3	Kilograms per square meter	Pounds per square foot	0.381	
Inches of mercury (at 62°F)	70.73	Pounds per square foot	Pounds per square inch	970.4	British thermal units
Inches of mercury (at 62°F)	.4912	Pounds per square inch	Pounds per square inch	4.383	Kilograms per square meter
Inches of water (at 62°F)	.002458	Atmospheres	Pounds per square inch		Atmospheres
Inches of water (at 62°F)	.07355	Inches of mercury	Pounds per square inch	0.06804	Feet of water (at 62°F)
Inches of water (at 62°F)	25.40	Kilograms per square meter	Pounds per square inch	2.309	Inches of mercury (at 62°F)
Inches of water (at 62°F)	.03613	Pounds per square inch	Pounds per square inch	2.0416	Kilograms per square centimeter
Inches of water (at 62°F)	5.202	Pounds per square foot	Quarts	.0703	Liters
Kilograms	2.20462	Pounds	Square centimeters		Square inches
Kilogram-calories	3.968	British thermal units	Square centimeters		Square centimeters
Kilograms per sq. cm.	14.220	Pounds per square inch	Square meters	928.0	Square meters
Kilograms per sq. meter	.2048	Pounds per square foot	Temperature (C) + 273	1.550	Square centimeters
Kilometers	.62137	Miles	Temperature (C) + 17.78	10.765	Square feet
Kilowatts	56.92	British thermal units per minute	Temperature (F) + 460	6.452	Square feet
Kilowatts	1.341	Horsepower	Temperature (F) - 32	1	Absolute temperature (C)
Kilowatt-hours	3,415.0	British thermal units	Tons of refrigeration	1.8	Temperature (F)
Kilowatt-hours	860.5	Kilogram-calories	Tons of refrigeration	1	Absolute temperature (F)
Latent heat of ice	143.33	British thermal units per pound	Tons of refrigeration	5.9	Temperature (C)
Liters	0.03531	Cubic feet	Watts	12,000.0	British thermal units per hour
Liters	61.02	Cubic inches	Watts	200.0	British thermal units per minute
Liters	0.2642	Gallons	Watts	50,40323	Calories per minute
Meters	3,29083	Feet	Watts	3.415	British thermal units per hour
Meters	39.37	Inches	Watt-hours	0.05692	British thermal units per minute
Meters	1.094	Yards	Watt-hours	0.01434	Kilogram-calories per min.
				3.415	British thermal units per hour
				0.8605	Kilogram-calories

# CIRCLES

Circumferences and Areas

Dia.	Circum.	Area	Dia.	Circum.	Area	Dia.	Circum.	Area
1/32	.09818	.00077	8	25.133	50.265	21	65.973	346.36
1/16	.19635	.00307	1/8	25.525	51.849	1/4	66.759	354.66
1/8	.39270	.01227	1/4	25.918	53.456	1/2	67.544	363.05
3/16	.58905	.02761	3/8	26.311	55.088	3/4	68.330	371.54
1/4	.78540	.04909	1/2	26.704	56.745	22	69.115	380.13
5/16	.98175	.07670	5/8	27.096	58.426	1/4	69.900	388.82
3/8	1.1781	.11045	3/4	27.489	60.132	1/2	70.686	397.61
7/16	1.3744	.15033	7/8	27.882	61.862	3/4	71.471	406.49
1/2	1.5708	.19635	9	28.274	63.617	23	72.257	415.48
9/16	1.7671	.24850	1/8	28.667	65.397	1/4	73.042	424.56
5/8	1.9635	.30680	1/4	29.060	67.201	1/2	73.827	433.74
11/16	2.1598	.37122	3/8	29.452	69.029	3/4	74.613	443.01
3/4	2.3562	.44179	1/2	29.845	70.882	24	75.398	452.39
13/16	2.5525	.51849	5/8	30.238	72.760	1/4	76.184	461.86
7/8	2.7489	.60132	3/4	30.631	74.662	1/2	76.969	471.44
15/16	2.9452	.69029	7/8	31.023	76.589	3/4	77.754	481.11
1	3.1416	.7854	10	31.416	78.540	25	78.540	490.87
1/8	3.5343	.9940	1/8	31.809	80.516	1/2	80.111	510.71
1/4	3.9270	1.2272	1/4	32.201	82.516	26	81.681	530.93
3/8	4.3197	1.4849	3/8	32.594	84.541	1/2	83.252	551.55
1/2	4.7124	1.7671	1/2	32.987	86.590	27	84.823	572.56
5/8	5.1051	2.0739	5/8	33.379	88.664	1/2	86.394	593.96
3/4	5.4978	2.4053	3/4	33.772	90.763	28	87.965	615.75
7/8	5.8905	2.7612	7/8	34.165	92.886	1/2	89.535	637.94
2	6.2832	3.1416	11	34.558	95.033	29	91.106	660.52
1/8	6.6759	3.5466	1/8	34.950	97.205	1/2	92.677	683.49
1/4	7.0686	3.9761	1/4	35.343	99.402	30	94.248	706.86
3/8	7.4613	4.4301	3/8	35.736	101.62	1/2	95.819	730.62
1/2	7.8540	4.9087	1/2	36.128	103.87	31	97.389	754.77
5/8	8.2467	5.4119	5/8	36.521	106.14	1/2	98.960	779.31
3/4	8.6394	5.9396	3/4	36.914	108.43	32	100.531	804.25
7/8	9.0321	6.4918	7/8	37.306	110.75	1/2	102.102	829.58
3	9.4248	7.0686	12	37.699	113.10	33	103.673	855.30
1/8	9.8175	7.6699	1/8	38.092	115.47	1/2	105.243	881.41
1/4	10.210	8.2958	1/4	38.485	117.86	34	106.814	907.92
3/8	10.603	8.9462	3/8	38.877	120.28	1/2	108.385	934.82
1/2	10.996	9.6211	1/2	39.270	122.72	35	109.956	962.11
5/8	11.388	10.321	5/8	39.663	125.19	1/2	111.527	989.80
3/4	11.781	11.045	3/4	40.055	127.68	36	113.097	1017.9
7/8	12.174	11.793	7/8	40.448	130.19	1/2	114.668	1046.3
4	12.566	12.566	13	40.841	132.73	37	116.239	1075.2
1/8	12.959	13.364	1/4	41.626	137.89	1/2	117.810	1104.5
1/4	13.352	14.186	1/2	42.412	143.14	38	119.381	1134.1
3/8	13.744	15.033	3/4	43.197	148.49	1/2	120.951	1164.2
1/2	14.137	15.904	14	43.982	153.94	39	122.522	1194.6
5/8	14.530	16.800	1/4	44.768	159.48	1/2	124.093	1225.4
3/4	14.923	17.721	1/2	45.553	165.13	40	125.664	1256.6
7/8	15.315	18.665	3/4	46.338	170.87	1/2	127.235	1288.2
5	15.708	19.635	15	47.124	176.71	41	128.805	1320.3
1/8	16.101	20.629	1/4	47.909	182.65	1/2	130.376	1352.7
1/4	16.493	21.648	1/2	48.695	188.69	42	133.518	1418.6
3/8	16.886	22.691	3/4	49.480	194.83	43	135.088	1452.2
1/2	17.279	23.758	16	50.265	201.06	1/2	136.659	1486.2
5/8	17.671	24.850	1/4	51.051	207.39	44	138.230	1520.5
3/4	18.064	25.967	1/2	51.836	213.82	1/2	139.801	1555.3
7/8	18.457	27.109	3/4	52.622	220.35	45	141.372	1590.4
6	18.850	28.274	17	53.407	226.98	1/2	142.942	1626.0
1/8	19.242	29.465	1/4	54.192	233.71	46	144.513	1661.9
1/4	19.635	30.680	1/2	54.978	240.53	1/2	146.084	1698.2
3/8	20.028	31.919	3/4	55.763	247.45	47	147.655	1734.9
1/2	20.420	33.183	18	56.549	254.47	1/2	149.226	1772.1
5/8	20.813	34.472	1/4	57.334	261.59	48	150.796	1809.6
3/4	21.206	35.785	1/2	58.119	268.80	1/2	152.367	1847.5
7/8	21.598	37.122	3/4	58.905	276.12	49	153.938	1885.7
7	21.991	38.485	19	59.690	283.53	1/2	155.509	1924.4
1/8	22.384	39.871	1/4	60.476	291.04	50	157.080	1963.5
1/4	22.776	41.282	1/2	61.261	298.65			
3/8	23.169	42.718	3/4	62.046	306.35			
1/2	23.562	44.179	20	63.617	322.06			
5/8	23.955	45.664	1/4	63.617	322.06			
3/4	24.347	47.173	1/2	64.403	330.06			
7/8	24.740	48.707	3/4	65.188	338.16			

$$\text{Circumference} = 2\pi r = \pi d$$

$$\text{Area} = \pi r^2 = \frac{\pi d^2}{4}$$

## CONTENTS IN CUBIC FEET U.S. GALLONS OF PIPES AND CYLINDERS

Diam. in Inches	For 1 Foot in Length		Diam. in Inches	For 1 Foot in Length		Diam. in Inches	For 1 Foot in Length	
	Cubic Feet	U.S. Gallons		Cubic Feet	U.S. Gallons		Cubic Feet	U.S. Gallons
1/4	0.0003	0.0025	6-3/4	0.2485	1.859	19	1.969	14.73
5/16	0.0005	0.0040	7	0.2673	1.999	19-1/2	2.074	15.51
3/8	0.0008	0.0057	7-1/4	0.2867	2.145	20	2.182	16.32
7/16	0.0010	0.0078	7-1/2	0.3068	2.295	20-1/2	2.292	17.15
1/2	0.0014	0.0102	7-3/4	0.3276	2.450	21	2.405	17.99
9/16	0.0017	0.0129	8	0.3491	2.611	21-1/2	2.521	18.86
5/8	0.0021	0.0159	8-1/4	0.3712	2.777	22	2.640	19.75
11/16	0.0026	0.0193	8-1/2	0.3941	2.948	22-1/2	2.761	20.66
3/4	0.0031	0.0230	8-3/4	0.4176	3.125	23	2.885	21.58
13/16	0.0036	0.0269	9	0.4418	3.305	23-1/2	3.012	22.53
7/8	0.0042	0.0312	9-1/4	0.4667	3.491	24	3.142	23.50
15/16	0.0048	0.0359	9-1/2	0.4922	3.682	25	3.409	25.50
1	0.0055	0.0408	9-3/4	0.5185	3.879	26	3.687	27.58
1-1/4	0.0085	0.0638	10	0.5454	4.080	27	3.976	29.74
1-1/2	0.0123	0.0918	10-1/4	0.5730	4.286	28	4.276	31.99
1-3/4	0.0167	0.1249	10-1/2	0.6013	4.499	29	4.587	34.31
2	0.0218	0.1632	10-3/4	0.6303	4.715	30	4.909	36.72
2-1/4	0.0276	0.2066	11	0.6600	4.937	31	5.241	39.21
2-1/2	0.0341	0.2550	11-1/4	0.6903	5.164	32	5.585	41.78
2-3/4	0.0412	0.3085	11-1/2	0.7213	5.396	33	5.940	44.43
3	0.0491	0.3672	11-3/4	0.7530	5.633	34	6.305	47.16
3-1/4	0.0576	0.4309	12	0.7854	5.875	35	6.681	49.98
3-1/2	0.0668	0.4998	12-1/2	0.8522	6.375	36	7.069	52.88
3-3/4	0.0767	0.5738	13	0.9218	6.895	37	7.467	55.86
4	0.0873	0.6528	13-1/2	0.9940	7.436	38	7.876	58.92
4-1/4	0.0985	0.7369	14	1.069	7.997	39	8.296	62.06
4-1/2	0.1104	0.8263	14-1/2	1.147	8.578	40	8.727	65.28
4-3/4	0.1231	0.9206	15	1.227	9.180	41	9.168	68.58
5	0.1364	1.020	15-1/2	1.310	9.801	42	9.621	71.97
5-1/4	0.1503	1.125	16	1.396	10.44	43	10.085	75.44
5-1/2	0.1650	1.234	16-1/2	1.485	11.11	44	10.559	78.99
5-3/4	0.1803	1.349	17	1.576	11.79	45	11.045	82.62
6	0.1963	1.469	17-1/2	1.670	12.49	46	11.541	86.33
6-1/4	0.2131	1.594	18	1.767	13.22	47	12.048	90.13
6-1/2	0.2304	1.724	18-1/2	1.867	13.96	48	12.566	94.00

One cubic foot of water at 39.1 degrees F. weighs 62.4245 pounds.

One cubic foot of air at 32 degrees F., atmospheric pressure, weighs 0.08073 pound.

One pound of water at 39.1 degrees F. has a volume of 0.01602 cubic foot.

One pound of air at 32 degrees F., atmospheric pressure, has a volume of 12.387 cubic feet.

One gallon of water at 62 degrees F. weighs 8.336 pounds.

One pound of water at 62 degrees F. has a volume of 0.1199 U.S. gallon.

# ZONING MADE EASY

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## RULES OF THUMB

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### FLOW RATE

$$\frac{\text{Net Btuh Load}}{10,000} = \text{Flow Rate}$$

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### MAXIMUM FLOW RATE

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Pipe Size (Copper)	Maximum Flow Rate
1/2"	1½ gpm
3/4"	4 gpm
1"	8 gpm
1¼"	14 gpm

---

### MAXIMUM FLOW RATE & HEAT CARRYING CAPACITY

---

Pipe Size (Copper)	Maximum Flow Rate	Heat Carrying Capacity
1/2"	1½ gpm	15,000 Btuh
3/4"	4 gpm	40,000 Btuh
1"	8 gpm	80,000 Btuh
1¼"	14 gpm	140,000 Btuh

(Based on a 20-degree temperature drop across the system)

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### MAXIMUM LENGTH OF FIN-TUBE BASEBOARD LOOP

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Baseboard Size Size (Copper)	Typical Btuh Per Linear Foot	Maximum Length of Baseboard Loop
1/2"	600	25 feet
3/4"	600	67 feet
1"	770	104 feet
1¼"	790	177 feet

(Based on 180-degree average water temperature and  
a 20-degree temperature drop across the system)

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### "PUMP HEAD"

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1. Measure the longest run in feet.
2. Add 50% to this.
3. Multiply that by .04, and
4. That's the pump head!

## CHAPTER 4 - INSTALLED RADIATION: DETERMINING HEAT LOAD

### HEAT LOSSES FROM BARE STEEL PIPE

Based On 70° Surrounding Air

Diameter of Pipe, Inches	Temperature of Pipe, Deg. F					
	100	120	150	180	210	240
	Heat Loss per Lineal Foot of Pipe, BTU per Hour					
1/2	13	22	40	60	82	106
3/4	15	27	50	74	100	131
1	19	34	61	90	123	160
1 1/4	23	42	75	111	152	198
1 1/2	27	48	85	126	173	224
2	33	59	104	154	212	275
2 1/2	39	70	123	184	252	327
3	46	84	148	221	303	393
3 1/2	52	95	168	250	342	444
4	59	106	187	278	381	496
5	71	129	227	339	464	603
6	84	151	267	398	546	709
8	107	194	341	509	697	906
10	132	238	420	626	857	1114
12	154	279	491	732	1003	1305
14	181	326	575	856	1173	1527
16	203	366	644	960	1314	1711
18	214	385	678	1011	1385	1802
20	236	426	748	1115	1529	1990

### HEAT LOSSES FROM BARE TARNISHED COPPER TUBE

Based On 70° Surrounding Air

Diameter of Pipe, Inches	Temperature of Pipe, Deg. F					
	100	120	150	180	210	240
	Heat Loss per Lineal Foot of Pipe, BTU per Hour					
1/4	4	8	14	21	29	37
3/8	6	10	18	28	37	48
1/2	7	13	22	33	45	59
5/8	8	15	26	39	53	68
3/4	9	17	30	45	61	79
1	11	21	37	55	75	97
1 1/4	14	25	45	66	90	117
1 1/2	16	29	52	77	105	135
2	20	37	66	97	132	171
2 1/2	24	44	78	117	160	206
3	28	51	92	136	186	240
3 1/2	32	59	104	156	212	274
4	36	66	118	174	238	307
5	43	80	142	212	288	373
6	51	93	166	246	336	432
8	66	120	215	317	435	562
10	80	146	260	387	527	681
12	94	172	304	447	621	802

## RADIATOR RATINGS

The output of a radiator is measured in square feet of direct radiation. To determine the number of square feet of direct radiation in a radiator

1. Identify the style of radiator—See Fig. 1 below.
2. Measure the height and width of the radiator.
3. Count the number of tubes in a section.
4. Count the number of sections.
5. Determine the square feet of radiation per section from the appropriate table and multiply by the number of sections.

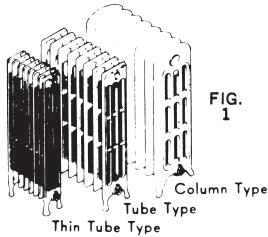


Fig. 1 shows the relative sizes of radiator styles. All are four tube, eight section radiators but each rating is different.

### EXAMPLE

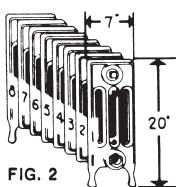


Fig. 2 shows a tube type radiator, 20" high by 7" wide. There are four tubes per section and eight sections. The table on page four shows this size radiator has  $2\frac{1}{4}$  square feet of radiation per section.  $2\frac{1}{4}$  times 8 (the number of sections) equals 18 square feet of direct radiation in the radiator.

**NOTE:** All radiator dimensions and ratings in this booklet are approximate. Ratings should be used for checking the total radiation connected to an existing boiler.

## OLD STYLE COLUMN RADIATORS

### SQ. FT. OF RADIATION PER SECTION

#### NO. OF COLUMNS

Width→	1	2	3	4	5	6
Height In.						
45"	3 1/2	5	6	10	—	—
38"	3	4	5	8	10	—
32"	2 1/2	3 1/3	4 1/2	6 1/2	8 1/2	—
26"	2	2 2/3	3 3/4	5	7	7
23"	1 2/3	2 1/3	3 1/4	4 1/2	—	—
22"	1 2/3	2 1/4	3	4	6	6
20"	1 1/2	2	2 3/4	3 1/2	5	5
18"	1 1/3	1 3/4	2 1/4	3	5	4 1/3
17"	—	—	—	—	—	4
16"	—	—	—	—	4	3 3/4
15"	—	1 1/2	—	—	—	—
14"	—	—	—	—	4	3
13"	—	—	—	—	3	3

## TUBE TYPE RADIATORS

### SQ. FT. OF RADIATION PER SECTION

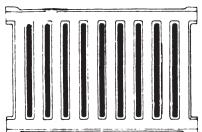
	NO. OF TUBES				
Width →	3	4	5	6	7
	5"		7"		8 3/4"
	9 3/4"		12 1/2"		
Height In.					
38"	3 1/2	4 1/4	5	6	—
36"	3 1/2	4 1/4	5	6	7
32"	3	3 1/2	4 1/3	5	6
26"	2 1/3	2 3/4	3 1/2	4	5
23"	2	2 1/2	3	3 1/2	4 1/2
22"	—	—	—	—	4 1/2
20"	1 3/4	2 1/4	2 2/3	3	3 2/3
18"	—	—	—	—	3 1/2
17"	—	—	—	—	3
16"	—	—	—	—	3
14"	—	—	—	—	2 1/2

## THIN TUBE RADIATORS

### SQ. FT. OF RADIATION PER SECTION

	NO. OF TUBES				
Width →	2	3	4	5	6
	3 1/2"		4"		4 3/4"
	6"		7 1/8"		
Height In.					
38"	2.5	2.6	—	—	—
32"	2.0	2.4	—	—	3.7
26"	—	—	2.4	3.0	3.0
25"	1.6	1.6	2.0	—	3.0
23"	—	—	—	2.1	—
22"	1.3	1.4	1.8	—	—
20"	—	—	1.8	—	2.3
19"	1.1	1.2	1.6	—	2.3
17"	—	—	—	2.0	—

## WALL TYPE RADIATORS



Size	Sq. Ft. Per Radiator
$13\frac{1}{2}'' \times 17'' \times 3''$	5
$13\frac{1}{2}'' \times 21'' \times 3''$	6
$13\frac{1}{2}'' \times 22'' \times 3''$	7
$13\frac{1}{2}'' \times 29'' \times 3''$	9

## SECTIONAL WALL TYPE RADIATORS



Height	37"	26½"	21½"	15"	13⅞"
Sq. Ft.	$2\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	1	$\frac{3}{4}$
Radiation Per Section					

## RADIATOR RATING STANDARDS

A SQUARE FOOT OF STEAM RADIATION is based on a heat emission of 240 BTU per hour per square foot, with standard 70° F. air temperature and 215° F. steam temperature in the radiator. A SQUARE FOOT OF WATER RADIATION is based on a heat emission of 150 BTU per hour per square foot, with standard 70° F. air temperature and an average water temperature in the radiator of 170° F.

A different rate of heat emission will be obtained when the average water temperature in the radiator is higher or lower than 170° F. See table below.

EXAMPLE: A structure has a calculated heat loss of 63,000 BTU and an average water temperature in the radiators of 200° F. As shown in the heat emission table, with 200° F. average water temperature, the heat emission is 210 BTU per square foot of radiation. Therefore the footage which must be used in selecting radiators is 300 sq. ft. ( $63,000 \div 210 = 300$ ). Select the boiler on 63,000 BTU net rating.

### HEAT EMISSION based on Room Temperature of 70° F.

AVERAGE WATER TEMP. IN RADIATORS °F							
150	160	170	180	190	200	210	215
HEAT EMISSION BTU PER HOUR SQ. FT.							
110	130	150	170	190	210	230	240

## WEIL-McLAIN BASEBOARD RADIATION RATINGS

Capacities per Lineal Foot in BTU/Hr. with 65° F. Entering Air

### CAST IRON BASEBOARD

MODEL	STEAM RATING SQ. FT. STEAM @ 215° F.	WATER FLOW RATE — 500 LBS./HR. OR 1 GPM						
		AVERAGE WATER TEMPERATURE BETWEEN INLET AND OUTLET — °F.						
No. 9	3.35	150	160	170	180	190	200	215

### CONVECTOR BASEBOARD

MODEL	WATER FLOW RATE — 500 LBS./HR. OR 1 GPM							
	AVERAGE WATER TEMPERATURE BETWEEN INLET AND OUTLET — °F.							
Model 75 WL-3 (¾" Tube) THERMA TRIM	170	180	190	200	210	220	230	240
Model 75 H (¾" Tube) HIGH TRIM	530	600	670	740	810	870	—	—
	680	760	850	940	1,030	1,110	1,200	1,290

## CHAPTER 5 - WATER CONTENT

### EXISTING RADIATION/PIPING

#### A. RADIATION:

Based on Sq. Ft. Rating	Water Content/Gal.	Weight/Lbs.
Slenderized Radiators	0.066	4.5
Large Tube Radiators	0.103	5.25
Column Radiators	0.188	7.0
Convector (Non-Ferrous)	0.004	1.5
Convector (Cast Iron)	0.04	3.4
Radiant Radiators	0.066	5.0
Base-Ray (Cast Iron Baseboard)	0.066	4.4

#### B. STEEL AND WROUGHT IRON PIPE (STD. WGT.)

Nominal Size: Inches	Based On Lineal Foot	
	Water Content/Gal.	Weight/Lbs.
1/2"	.016	.132
3/4"	.028	.231
1"	.045	.375
1 1/4"	.078	.648
1 1/2"	.106	.883
2"	.174	1.455
2 1/2"	.249	2.076
3"	.384	3.205
4"	.661	5.519
5"	1.039	8.662
6"	1.501	12.510

#### C. COPPER TUBING (TYPE L)

Nominal Size: Inches	Based on Lineal Foot	
	Water Content/Gal.	Weight/Lbs.
3/8"	.007	.063
1/2"	.012	.101
5/8"	.018	.151
3/4"	.025	.210
1"	.043	.357
1 1/4"	.065	.544
1 1/2"	.092	.770
2"	.161	1.340

#### D. WATER CONVERSION FACTORS

Lbs. of Water x 0.12 = Gallons

Gallons of Water x 8.33 = Lbs.

Lbs. of Water x 27.68 = Cubic Inches

Gallons of Water x 231 = Cubic Inches

Cubic Inches ÷ 1728 = Cubic Feet

## **CHAPTER 7 - FUEL CONSUMPTION AND ENERGY COST**

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There are several ways to calculate the operational cost of a specific boiler in a particular location. The accuracy of each will depend on the attention one gives the many variables.

Two popular methods are the "bin" and "degree-day". Though the "bin" method has the potential to be more accurate, it is more complicated and necessary weather data is not readily available. Discussion will be limited to the "Degree-Day" method.

The "Degree-Day" method is not without controversy. Historically, the reference temperature is 65°. This assumes that a building with average insulation and a thermostat set at 70° will cause a boiler to begin operation when outdoor temperature falls below 65°. Overlooked variables could be sunshine, wind, heavier insulation, different thermostat setting.

### **WHAT IS A DEGREE DAY?**

When the outside temperature falls below 65°F, heat will be required to maintain the temperature within the building. The average outside temperature is estimated by adding the high and low temperature for a given day and dividing by two. (Example: A high of 40°F and a low of 20°F would be equivalent to a 30°F average temperature.) "Degree Days" are defined as the difference between the average temperature and the 65°F reference temperature. Therefore, 65°F minus 30°F equals 35 "Degree Days".

$$\text{Degree Days} = 65 - (\text{high} + \text{low}) \div 2$$

### **FUEL CONSUMPTION**

In order to determine fuel usage the D.D. is used in the following equation:

$$\frac{F = HL \times 24 \times DD}{E \times P \times T.D.}$$

HL	=	Heating Load (Btuh)
DD	=	Degree Day
24	=	Hours in a day
E	=	Boiler Efficiency (AFUE)
P	=	Heating value of fuel (Btu)
T.D.	=	Design temperature difference (inside-outside)
F	=	Annual fuel consumption

## **TYPICAL DEGREE DAY FOR A FEW LOCATIONS:**

	<b>2010 heating degree days</b>	<b>2011 heating degree days</b>	<b>2012 heating degree days</b>
<b>Bangor 04401</b>	8055	8825	8572
<b>Portland 04112</b>	7686	8040	7683
<b>Presque Isle 04769</b>	9565	10382	10083
<b>Waterville 04901</b>	8172	8662	8551
<b>Wells 04090</b>	7958	8293	7813

Source of Information: <http://www.weatherdatadepot.com/>

**BTU PER GALLON HEATING #2 HEATING OIL 138,690 BTU/GALLON**

**BTU PER GALLON PROPANE 91,333 BTU/GALLON**

**OUTDOOR DESIGN TEMPERATURES 97.5%**

Bangor -6, Portland -1, Waterville -4, Presque Isle -9, Wells 0

## The Wind Chill Factor

Simple air temperature is not a reliable indicator of how we may feel outdoors. Other weather elements such as humidity, sunshine and wind speed all influence the "real" temperature. How do you measure wind speed without an instrument? Roughly, a wind speed up to 12 mph puts leaves in motion and can just be felt on the face . . . 13-24 mph moves small branches, raises dust, etc. . . . 25-30 mph makes wires whistle and moves large branches . . . 30-40 mph makes whole trees move and is difficult to walk against. This chart shows you must never underestimate the effect of the wind on outside temperatures. Obviously, winds also have relative effects on inside temperatures.

### Wind Chill Chart

Current Temperature	Wind in Miles Per Hour									
	5	10	15	20	25	30	35	40	45	50
35	33	21	16	12	7	5	3	1	1	0
30	27	16	11	3	0	-2	-4	-4	-6	-7
25	21	9	1	-4	-7	-11	-13	-15	-17	-17
20	16	2	-6	-9	-15	-18	-20	-22	-24	-24
15	12	-2	-11	-17	-22	-26	-27	-29	-31	-31
10	7	-9	-18	-24	-29	-33	-35	-36	-38	-38
5	1	-15	-25	-32	-37	-41	-43	-45	-46	-47
0	-6	-22	-33	-40	-45	-49	-52	-54	-54	-56
-5	-11	-27	-40	-46	-52	-56	-60	-62	-63	-63
-10	-15	-31	-45	-52	-58	-63	-67	-69	-70	-70
-15	-20	-38	-51	-60	-67	-70	-72	-76	-78	-79
-20	-26	-45	-60	-68	-75	-78	-83	-87	-87	-88
-25	-31	-52	-65	-76	-83	-87	-90	-94	-94	-96
-30	-35	-58	-70	-81	-89	-94	-98	-101	-101	-103
-35	-41	-64	-78	-88	-96	-101	-105	-107	-108	-110
-40	-47	-70	-85	-96	-104	-109	-113	-116	-118	-120
-45	-54	-77	-90	-103	-112	-117	-123	-128	-128	-128

**Radiant Panel Association  
QUICK REFERENCE SHEET  
to RPA Guidelines for Hydronic Radiant Floor Heating**

**Special Insulation Considerations:**

	Application	Min. R-Value	Coverage/Comment
Slab on Grade	Alternate #1	*(Ti-To ) 0.125	perimeter to below frost line 4' horizontal or vertical at perimeter under entire slab
	Alternate #2	R-10	
	Conductive Soil	R-10	
Suspended Floors Over Heated Space	Hard Surface	R-9	under entire floor w/ 2" air gap
	Carpeted Surface	R-13	under entire floor w/ 2" air gap
Over Unheated Space	Hard Surface	R-13	under entire floor w/ 2" air gap
	Carpeted Surface	R-19	under entire floor w/ 2" air gap
Walls With Panels	outside wall	R-13	entire wall
	inside wall	optional	
Ceiling With Panels	inside ceiling	R-11	entire ceiling above panel
	outside ceiling	R-30	entire ceiling above panel

\*R-value = Inside Temperature - Outdoor Temperature x 0.125

**Pressure Testing Embedded Tubing** - 100 PSI for at least 30 minutes

**Floor Surface Temperatures** - 85°F maxi. in prolonged foot contact areas  
90°F max. other than prolonged foot contact areas  
85°F max. on solid or laminated hardwood flooring

**Fluid Temperatures** - 140° max. in gypsum based thermal mass  
160° max. underside of wood subfloor  
180° max. underside of wood subfloor when approved by tubing manufacturer's design methods

**Floor Covering** - R-value not to exceed design requirement

**Tube Placement** -

Structural Slab	2" min. below surface, no tube joints in slab, sleeved a min. of 4" either side of expansion joint
Non-structural	3/4" underlayment over highest point in tube 1/8" min. gap between butt ends of aluminum plates no inaccessible tube joints
Joist Space	1/8" min. gap between butt ends of aluminum plates 2" air gap below tube except where aluminum plates are used

**Tube Length** -

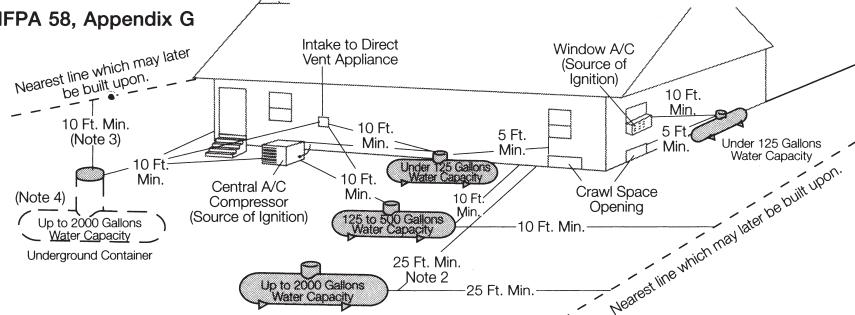
Tube Size	Recommended	Maximum
1/4" I.D. tubing	100 ft.	125 ft.
3/8" I.D. tubing	200 ft.	250 ft.
1/2" I.D. tubing	250 ft.	350 ft.
5/8" I.D. tubing	400 ft.	500 ft.
3/4" I.D. tubing	500 ft.	600 ft.
1" I.D. tubing	750 ft.	750 ft.

**Oxygen Permeation** -  
Three options

Oxygen barrier tube, less than 0.1 gram/m<sup>3</sup>/day at 40°  
Heat Exchanger to isolate non-oxygen barrier tube  
Water treatment to inhibit corrosion due to oxygen

## Location of ASME Containers

From NFPA 58, Appendix G



### Notes:

- 1) Regardless of its size, any ASME tank filled on-site must be located so that the filling connection and fixed liquid level gauge are at least 10 feet from external source of ignition (i.e. open flame, window A/C, compressor, etc.), intake to direct vented gas appliance or intake to a mechanical ventilation system.
- 2) May be reduced to 10 feet minimum for a single container of 1200 gallons water capacity or less if it is located at least 25 feet from any other LP-Gas container of more than 125 gallons water capacity.
- 3) Minimum distances from underground containers shall be measured from the relief valve and filling or level gauge vent connection at the container, except that no part of an underground container shall be less than 10 feet from a building or line of adjoining property which may be built upon.
- 4) Where the container may be subject to abrasive action or physical damage due to vehicular traffic or other causes, it must be either a) placed not less than 2 feet below grade; b) otherwise protected against such physical damage.

**Table 4 — Second, Single, or Integral Twin Stage Pipe Sizing**

11 Inches Water Column Inlet with a 1/2 Inch Water Column Drop

Maximum capacity of pipe or tubing in thousands of BTU/hr of LP-Gas

Size of Pipe or Copper Tubing, Inches	Length of Pipe or Tubing, Feet *									
	10	20	30	40	50	60	70	80	90	100
Copper Tubing										
3/8	49	34	27	23	20	19	—	—	—	—
1/2	110	76	61	52	46	42	38	36	33	32
(O.D.)										
5/8	206	141	114	97	86	78	71	67	62	59
3/4	348	239	192	164	146	132	120	113	105	100
7/8	536	368	296	253	224	203	185	174	161	154
Pipe Size										
1/2	291	200	161	137	122	110	102	94	87	84
3/4	608	418	336	287	255	231	212	198	185	175
1	1146	788	632	541	480	435	400	372	349	330
1-1/4	2353	1617	1299	1111	985	892	821	764	717	677
1-1/2	3525	2423	1946	1665	1476	1337	1230	1144	1074	1014
2	6789	4666	3747	3207	2842	2575	2369	2204	2068	1954

	125	150	175	200	225	250	275	300	350	400
Copper Tubing										
3/8	—	—	—	—	—	—	—	—	—	—
1/2	—	—	—	—	—	—	—	—	—	—
(O.D.)										
5/8	—	—	—	—	—	—	—	—	—	—
3/4	—	—	—	—	—	—	—	—	—	—
7/8	—	—	—	—	—	—	—	—	—	—
Pipe Size										
1/2	74	67	62	58	54	51	48	46	43	40
3/4	155	141	129	120	113	107	101	97	89	83
1	292	265	244	227	213	201	191	182	167	156
1-1/4	600	544	500	465	437	412	392	374	344	320
1-1/2	899	815	749	697	654	618	587	560	515	479
2	1731	1569	1443	1343	1260	1190	1130	1078	992	923

\* Total length of piping from outlet of regulator to appliance furthest away.

Data Calculated per NFPA #54 & 58.

**Table 12.14 Maximum Capacity of CSST in Thousands of Btu per Hour of Undiluted Liquefied Petroleum Gases at a Pressure of 11-in. Water Column and a Pressure Drop of 0.5-in. Water Column (based on a 1.52 specific gravity gas)**

Size of Pipe or Copper Tubing, Inches	EHD* Flow Designation	Tubing Length, ft																
		5	10	15	20	25	30	40	50	60	70	80	90	100	150	200	250	300
3/8	13	72	50	39	34	30	28	23	20	19	17	15	15	14	11	9	8	8
3/8	15	99	69	55	49	42	39	33	30	26	25	23	22	20	15	14	12	11
3/8	18	181	129	104	91	82	74	64	58	53	49	45	44	41	31	28	25	23
1/2	19	211	150	121	106	94	87	74	66	60	57	52	50	47	36	33	30	26
1/2	23	355	254	208	183	164	151	131	118	107	99	94	90	85	66	60	53	50
3/4	25	426	303	248	216	192	177	153	137	126	117	109	102	98	75	69	61	57
1	30	744	521	422	365	325	297	256	227	207	191	178	169	159	123	112	99	90
1	31	863	605	490	425	379	344	297	265	241	222	208	197	186	143	129	117	107

Note: Table includes losses for four 90-degree bends and two end fittings. Tubing runs with larger numbers of bends or fittings shall be increased by an equivalent length of tubing to the following equation:  $L = 1.3n$  where  $L$  is additional length (ft) of tubing and  $n$  is the number of additional fittings or bends.

\*EHD — equivalent hydraulic diameter — a measure of the relative hydraulic efficiency between different tubing sizes. The greater the value of EHD, the greater the gas capacity of the tubing.

Source: NFPA 54, *National Fuel Gas Code*, 1999 edition, Table 9.29.

**307.2 Cutting, notching or bored holes.** A framing member shall not be cut, notched or bored in excess of limitations specified in the *International Building Code*.

❖ Cutting, notching or hole boring of structural members should be avoided whenever possible. The code recognizes that it is occasionally necessary to cut, notch or bore through studs, joists, beams, rafters or other structural members to install pipes, plumbing fixtures and appliances [see Figures 307.2(1) and 307.2(2)]. In order to maintain the integrity and load-carrying capacity of these structural members, the IBC is referenced to regulate the size and location of holes, notches, and other such modifications (see IBC Sections 2308.8.2 and 2308.9.10). If a structural member is to be modified beyond what is specifically permitted by the IBC, a structural analysis performed by a registered design professional and approved by the code official would be necessary to determine the effect that an alteration has had or will have on the load-carrying capacity of that structural member. Clearly, this should be considered before such alteration is made. Thoughtless cutting can result in an unnecessary hazard and expensive repair or replacement of improperly modified structural members.

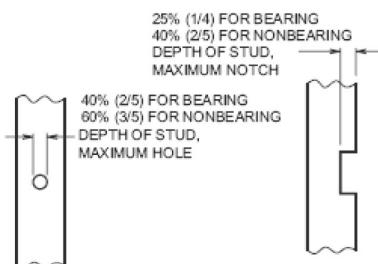
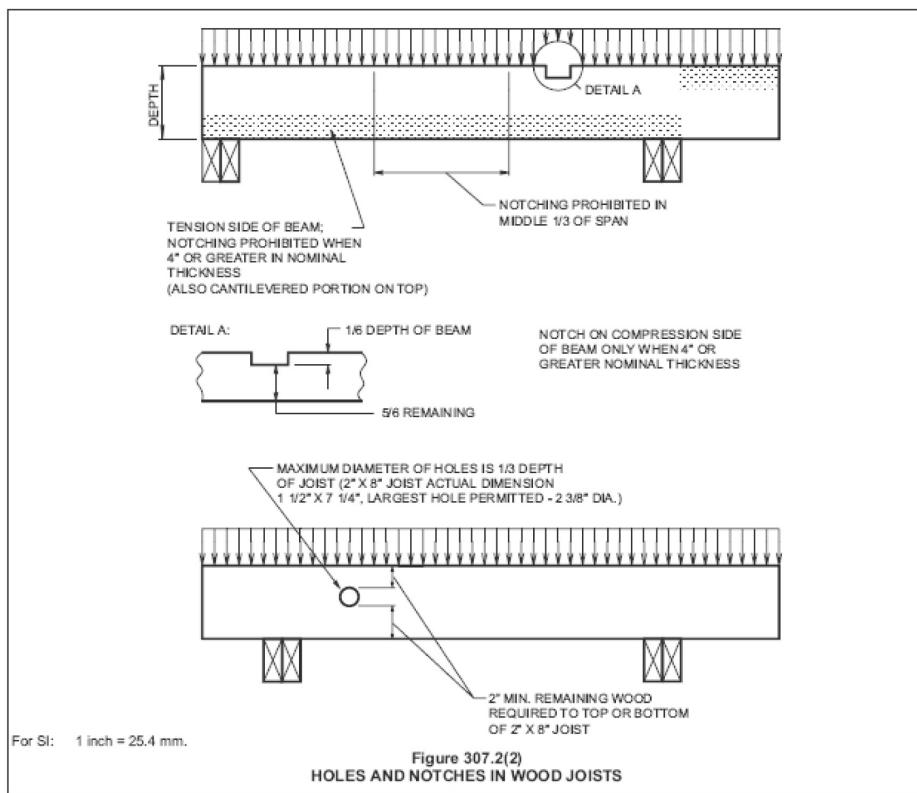


Figure 307.2(1)  
NOTCHES OR HOLES IN WOOD STUDS



**307.3 Penetrations of floor/ceiling assemblies and fire-resistance-rated assemblies.** Penetrations of floor/ceiling assemblies and assemblies required to have a fire-resistance rating shall be protected in accordance with the *International Building Code*.

❖ This section provides the requirement for the protection of penetrations and openings necessary for plumbing pipe in building assemblies that are required to be fire-resistance rated. In addition to maintaining the structural integrity of walls, floors, ceilings and roofs when these elements are penetrated by the plumbing pipe, the penetrations must also be protected to prevent the passage of fire and other products of combustion through the fire-resistance-rated assembly because of the pipe penetrating the assembly. These penetrations must be protected in accordance with the IBC [see Sections 711 and 712 of the IBC and Figures 307.3(1) through 307.3(4)].

**[B] 307.4 Alterations to trusses.** Truss members and components shall not be cut, drilled, notched, spliced or otherwise altered in any way without written concurrence and approval of a registered design professional. Alterations resulting in the addition of loads to any member (e.g., HVAC equipment, water heater) shall not be permitted without verification that the truss is capable of supporting such additional loading.

❖ Trusses are engineered products, and any alteration to specific elements may prevent the truss from performing as intended. The code does not permit drilling and notching of truss members and components without documentation that the design has taken this possibility into account. Additionally, trusses are designed to resist specific loads; changing the loading on the truss or on any of its members should not be done without approval of a registered design professional.

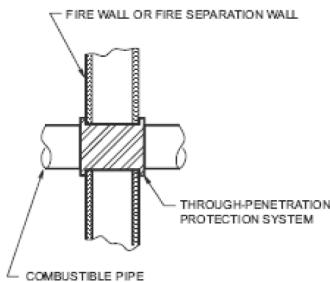


Figure 307.3(1)  
COMBUSTIBLE PIPE PENETRATION OF FIRE WALL

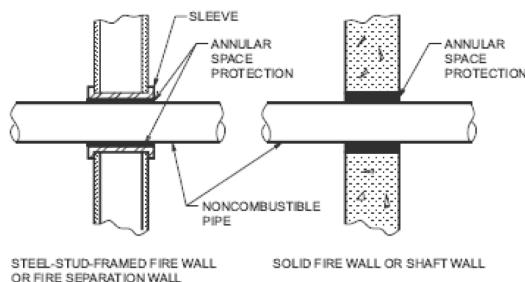


Figure 307.3(2)  
ANNULAR SPACE PROTECTION

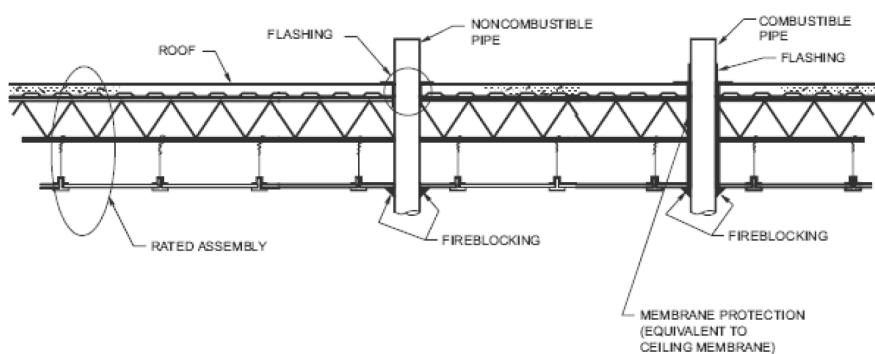


Figure 307.3(3)  
PIPE PENETRATION OF FIRE-RESISTANCE-RATED ROOF/CEILING ASSEMBLY



## HTX & SXHT Series Hydronic Expansion Tanks

QUICK SIZING GUIDE				
Boiler Output 1000's BTUH	Copper Baseboard & Radiant	Type of Radiation		
		Convector & Unit Heaters	Cast Iron	
			Radiators	Baseboard
25	HTX 15	HTX 15	HTX 15	HTX 15
50	HTX 15	HTX 30	HTX 30	HTX 30
75	HTX 30	HTX 30	HTX 60	HTX 60
100	HTX 30	HTX 30	HTX 60	HTX 60
125	HTX 30	HTX 60	HTX 60	HTX 60
150	HTX 30	HTX 60	HTX 90	HTX 90
175	HTX 60	HTX 60	HTX 90	HTX 90
200	HTX 60	HTX 60	HTX 90	HTX 90
250	SXHT 30	SXHT 30	SXHT 40	SXHT 30
300	SXHT 30	SXHT 40	SXHT 40	SXHT 30
350	SXHT 30	SXHT 40	SXHT 60	SXHT 40
400	SXHT 30	SXHT 60	SXHT 90	SXHT 40
500	SXHT 40	SXHT 60	SXHT 90	SXHT 40
600	SXHT 40	SXHT 90	SXHT 90	SXHT 60
700	SXHT 60	SXHT 90	SXHT 90	SXHT 60
800	SXHT 60	SXHT 110	SXHT 110	SXHT 90
900	SXHT 60	SXHT 110	SXHT 110	SXHT 90
1000	SXHT 90	SXHT 110	SXHT 110	SXHT 90

Sizing recommendations based on average size systems.

Fill pressure 12 PSI. Relief valve 30 PSI.

Average system water temperature 200°F.

300 Pond Street, Randolph, Massachusetts 02368

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[www.flexconind.com](http://www.flexconind.com)



PLUMBING & HEATING DIVISION

## HTX & SXHT Series Hydronic Expansion Tanks

### COMPETITIVE CROSS-REFERENCE GUIDE

FLEXCON	VENT-RITE	AMTROL	WATTS	STATE	ELBI	WILKINS
HTX 15	VR15	15	ET-15	ET-20	XT-15	HXT-15
HTX 30	VR30	30	ET-30	ET-5	XT-30	HXT-30
HTX 60	VR60	60	ET-60	ET-7	XT-60	HXT-60
HTX 90	VR90	90	ET-90	ET-14	XT-90	HXT-90
SXHT 30	SXVR30	SX30	N/A	ET-15	XTV-30	N/A
SXHT 40	SXVR40	SX40	N/A	ET-20	XTV-40	N/A
SXHT 60	SXVR60	SX60	N/A	ET-36	XTV-60	N/A
SXHT 90	SXVR90	SX90	N/A	ET-52	XTV-90	N/A
SXHT 110	SXVR110	SX110	N/A	N/A	XTV-110	N/A
SXHT 160	SXVR160	SX160	N/A	ET-96	XTV-160	N/A

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## PH, WH & WHV Series Potable Water Thermal Expansion Tanks

Water Heater Size/ Volume	QUICK SIZING GUIDE			
	Maximum Water Temperature			
	130°F	140°F	160°F	180°F
30 gal	PH-5 or WH-8	PH-5 or WH-8	PH-5 or WH-8	PH-5 or WH-8
40 gal	PH-5 or WH-8	PH-5 or WH-8	PH-5 or WH-8	PH-5 or WH-8
50 gal	PH-5 or WH-8	PH-5 or WH-8	PH-5 or WH-8	PH-12 or WH-18
60 gal	PH-5 or WH-8	PH-5 or WH-8	PH-5 or WH-8	PH-12 or WH-18
80 gal	PH-5 or WH-8	PH-12 or WH-18	PH-12 or WH-18	PH-12 or WH-18
100 gal	PH-12 or WH-18	PH-12 or WH-18	PH-12 or WH-18	WH-32
120 gal	PH-12 or WH-18	PH-12 or WH-18	PH-12 or WH-18	WH-32
150 gal	PH-12 or WH-18	PH-12 or WH-18	WH-32	WH-32
175 gal	PH-12 or WH-18	WH-32	WH-32	WHV-50
200 gal	WH-32	WH-32	WHV-50	WHV-50
240 gal	WH-32	WH-32	WHV-50	WHV-75
260 gal	WH-32	WHV-50	WHV-50	WHV-75
280 gal	WH-32	WHV-50	WHV-75	WHV-75
300 gal	WHV-50	WHV-50	WHV-75	WHV-120
350 gal	WHV-50	WHV-50	WHV-75	WHV-120
400 gal	WHV-50	WHV-75	WHV-120	WHV-120

Based on total water heater recovery from 40°F.

Based on water supply pressure of 60 PSIG.

Relief valve set at 150 PSIG.

Adjust tank precharge to equal incoming water pressure.

300 Pond Street, Randolph, Massachusetts 02368

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## PH, WH & WHV Series Potable Water Thermal Expansion Tanks

### COMPETITIVE CROSS-REFERENCE GUIDE

FLEXCON	AMTROL	WATTS	STATE	ELBI	B&G	WILKINS
PH-5 or WH-8	ST-5	PET or DET-5	ETC-2X	DXT-8	PT-15	WXTP-8 or XT-8
PH-12 or WH-18	ST-12	PET or DET-12	ETC-5X	DXT-18	PT-12	WXTP-18 or XT18
WH-32	ST-25V	PET or DET-25	ETC-7X	DXT-35	PT-25V	WXTP-32
WHV-50	ST-30V	PET or DET-30	ETC-14X	DXT-50	PT-30V	WXTP-50V
WHV-75	ST-42V	N/A	N/A	N/A	PT-42V	WXTP-75V
WHV-120	ST-60V	N/A	N/A	N/A	PT-60V	WXTP-120V
WHV-165	ST-80V	N/A	N/A	N/A	PT-80V	WXTP-165V
WHV-320	ST-210V	N/A	N/A	N/A	PT-210V	WXTP-320V

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# CELSIUS TO FAHRENHEIT CONVERSION CHART

Celsius	Fahrenheit	Celsius	Fahrenheit	Celsius	Fahrenheit	Celsius	Fahrenheit
0.1	32.18	20	68	50	122	80	176
0.2	32.36	21	69.8	51	123.8	81	177.8
0.3	32.54	22	71.6	52	125.6	82	179.6
0.4	32.72	23	73.4	53	127.4	83	181.4
0.5	32.9	24	75.2	54	129.2	84	183.2
0.6	33.08	25	77	55	131	85	185
0.7	33.26	26	78.8	56	132.8	86	186.8
0.8	33.44	27	80.6	57	134.6	87	188.6
0.9	33.62	28	82.4	58	136.4	88	190.4
1	33.8	29	84.2	59	138.2	89	192.2
2	35.6	30	86	60	140	90	194
3	37.4	31	87.8	61	141.8	91	195.8
4	39.2	32	89.6	62	143.6	92	197.6
5	41	33	91.4	63	145.4	93	199.4
6	42.8	34	93.2	64	147.2	94	201.2
7	44.6	35	95	65	149	95	203
8	46.4	36	96.8	66	150.8	96	204.8
9	48.2	37	98.6	67	152.6	97	206.6
10	50	38	100.4	68	154.4	98	208.4
11	51.8	39	102.2	69	156.2	99	210.2
12	53.6	40	104	70	158	100	212
13	55.4	41	105.8	71	159.8	200	392
14	57.2	42	107.6	72	161.6	300	572
15	59	43	109.4	73	163.4	400	752
16	60.8	44	111.2	74	165.2	500	932
17	62.6	45	113	75	167	600	1112
18	64.4	46	114.8	76	168.8	700	1292
19	66.2	47	116.6	77	170.6	800	1472
		48	118.4	78	172.4	900	1652
		49	120.2	79	174.2	1000	1832

**For greater accuracy use formula below:**

To convert from Celsius to Fahrenheit:

$$\text{?F} = (9/5)\text{?C} + 32$$

To convert from Fahrenheit to Celsius:

$$\text{?C} = (5/9) \times (\text{?F} - 32)$$

?C = temperature in degrees Celsius

?F = temperature in degrees Fahrenheit

## Maine Home Construction Contracts

The Maine Home Construction Contracts Act requires you use a written contract with specific provisions whenever the construction or repair contract is for more than \$3,000. For example, the contract must limit any down payment to no more than one third (1/3) of the total price and the contract must include an express warranty of good workmanship. A sample contract can be found at [www.maine.gov/ag](http://www.maine.gov/ag) at chapter 18. Another important feature of this statute is that you are now required to attach a copy of the AG's "consumer protection information on home construction and repair, which includes information on contractors successfully sued by the State" and the Statute also requires a clear and conspicuous notice on your contract strongly advising the consumer to visit the AG website at [www.maine.gov/ag](http://www.maine.gov/ag) or telephone the AG at 1-800-436-2131.

**§ 1487. Home Construction Contracts** Any home construction contract for more than \$3,000 in materials or labor must be in writing and must be signed by both the home construction contractor and the homeowner or lessee. Both the contractor and the homeowner or lessee shall receive a copy of the executed contract prior to any work performance. This basic contract must contain the entire agreement between the homeowner or lessee and the home construction contractor and must contain at least the following parts:

1. Names of parties. The name, address and phone number of both the home construction contractor and the homeowner or lessee;
2. Location. The location of the property upon which the construction work is to be done;
3. Work dates. Both the estimated date of commencement of work and the estimated date when the work will be substantially completed. The estimated date of commencement of work and the completion date may be changed if work cannot begin or end due to circumstances beyond the control of the contractor, including, but not limited to, the lack of readiness of the job site or the unavailability of building materials;
4. Contract price. The total contract price, including all costs to be incurred in the proper performance of the work, or, if the work is priced according to a "cost-plus" formula, the agreed-upon price and an estimate of the cost of labor and materials;
5. Payment. The method of payment, with the initial down payment being limited to no more than one-third of the total contract price;
6. Description of the work. A general description of the work and materials to be used;
7. Warranty. A warranty statement which reads: In addition to any additional warranties agreed to by the parties, the contractor warrants that the work will be free from faulty materials; constructed according to the standards of the building code applicable for this location; constructed in a skillful manner and fit for habitation or appropriate use. The warranty rights and remedies set forth in the Maine Uniform Commercial Code apply to this contract;
8. Resolution of disputes. A statement allowing the parties the option to adopt one of 3 methods of resolving contract disputes. At a minimum, this statement must provide the following information:

If a dispute arises concerning the provisions of this contract or the performance by the parties, then the parties agree to settle this dispute by jointly paying for one of the following (check only one):

Binding arbitration as regulated by the Maine Uniform Arbitration Act, with the parties agreeing to accept as final the arbitrator's decision (\_\_\_\_);

1. Nonbinding arbitration, with the parties free to not accept the arbitrator's decision and to seek satisfaction through other means, including a lawsuit (\_\_\_\_);
2. Mediation, with the parties agreeing to enter into good faith negotiations through a neutral mediator in order to attempt to resolve their differences (\_\_\_\_);
9. Change orders. A change order statement which reads: Any alteration or deviation from the above contractual specifications that result in a revision of the contract price will be executed only upon the parties entering into a written change order;
10. Door-to-door sales. If the contract is being used for sales regulated by the consumer solicitation sales law, Title 32, chapter 69, subchapter V or the home solicitation sales law, Title 9-A, Part 5, a description of the consumer's rights to avoid the contract, as set forth in these laws;
11. Residential insulation. If the construction includes installation of insulation in an existing residence, any disclosures required by chapter 219, Insulation Contractors; and
12. Energy standards. A statement by the contractor that chapter 214 establishes minimum energy efficient building standards for new residential construction, and whether the new building or an addition to an existing building will meet or exceed those standards.

**§ 1488. Change Orders** Each change order to a home construction contract must be in writing and becomes a part of and is in conformance with the existing contract. All work shall be performed under the same terms and conditions as specified in the original contract unless otherwise stipulated. The change order must detail all changes to the original contract that result in a revision of the contract price. The previous contract price must be stated and the revised price shall also be stated. Both parties must sign the change order.

**§ 1489. Exemption** Parties to a home construction contract may exempt themselves from the requirements of this chapter only if the contractor specifically informs the homeowner or lessee of his rights under this chapter and the parties then mutually agree to a contract or change order that does not contain the parts set forth in sections 1487 and 1488



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### RANGELEY

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**Home:** (207) 864-3188  
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**ROME**

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**SACO**

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**SANFORD**

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**Cell:** (207) 907-8333  
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**SCARBOROUGH**

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Scarborough, ME 04074  
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**Brian Dobson**

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**SEARSMONT**

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**SEASPORT**

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**Home:** (207) 234-4006  
randy\_006@msn.com

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Sebago, ME 04029  
**Office:** (207) 787-2457

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**Office:** (207) 997-3287  
copalt@myfairpoint.net

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Sedgwick, ME 04676  
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**Cell:** (207) 359-2275

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ceo@shapleigh.net

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townofshirley@myfairpoint.net

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Sidney, ME 04330  
**Phone:** (207) 547-3340  
(207) 441-5302  
gfuller@sidneymaine.org

**SKOWHEGAN**

Brian Belliveau  
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Skowhegan, ME 04976  
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skowcode@skowhegan.org

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Smithfield, ME 04978  
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smithfieldceo@gmail.com

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Thomas McKenzie  
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Somerville, ME 04348  
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**Cell:** (434) 466-6944  
mcthomas@gmail.com

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S. Berwick, ME 03908

**Office:** (207) 384-3011

jrousselle@sbmaine.us

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1268 Bristol Rd

Bristol, ME 04539

**Phone:** (207) 563-5270 ext 303

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tnelson@southportland.org

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S. Thomaston, ME 04358

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W. Southport, ME 04576

**Office:** (207) 633-3318

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**Phone:** (207) 244-7915

ceo@southwestharbor.org

codesouthwest@southwestharbor.org

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Travis Gould

7 Water St

St. Albans, ME 04971

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jpaul@standish.org

### **STARKS**

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Starks, ME 04911

**Phone:** (207) 696-8069

townofstarks@gmail.com

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**Cell:** (207) 583-2229

parnemann@aol.com

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**Office:** (207) 367-2351 ext 11

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judybluehill@yahoo.com

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townofstow@fairpoint.net

### **STRONG**

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ceo@townofsurrymaine.com

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### **SWEDEN**

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bwasson@thomastonmaine.gov

### **THORNDIKE**

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Tel: (800) 437-8508 • Fax: (207) 284-9038

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373 Riverside Industrial Pkwy / Portland, ME 04103

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Sales and Technical Support: (207) 797-9104 or [sales@blakeequip.com](mailto:sales@blakeequip.com)

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Fax: (860) 225-9268

Email: howard@dysonassoc.com

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andrew@dysonassoc.com (401) 601-5128

**After Hours Emergency Contact:**

Howard Dyson (860) 305-3714

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Cell: (207) 233-7363

Email: anthony@edosonline.com

**Heating: Darren Webber**

8B W State St / Granby, MA 01033

Cell: (207) 409-5787

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Fax: (207) 644-0201

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20 Webb Dr / Hampden, ME 04444

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Fax: (207) 947-8211

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Tel: (207) 716-1456

Fax: (207) 872-0010

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**After Hours Emergency Contact:** (207) 756-5719

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Tel: (207) 442-7990

Fax: (207) 442-8377

**After Hours Emergency Contact:** (207) 402-1988

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Tel: (207) 892-5504

Fax: (207) 892-5507

**After Hours Emergency Contact:** (207) 332-9325

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Fax: (207) 892-0354

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Tel: (603) 669-8100 / (800) 258-9746

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118 Northeastern Blvd / Nashua, NH 03062

Tel: (603) 589-7580

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[nhandville@thegranitegroup.com](mailto:nhandville@thegranitegroup.com)

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**After Hours Emergency Contact:** 1-844-HEAT IBC

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[www.jandksales.com](http://www.jandksales.com)

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[nbassett@winnelson.com](mailto:nbassett@winnelson.com)

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On-the-job training must be coordinated with a participating employer.

Each course is equivalent to one year of classroom instruction.

For more information on enrollment or to enter the e-Learning Academy, please contact us at [aames2@maine.rr.com](mailto:aames2@maine.rr.com) or 829-5055

# Maine PHCC Scholarships



## Scholarships with Simple Application to bring new people into the trade.

Maine PHCC has updated their scholarship eligibility for all Members and Associate Members and their employees.

To build workforce and help to bring new people into the trade it was decided that the scholarships would be given to unlicensed applicants or apprentices. Anyone with a journeyman licensee or higher would not be eligible.

- Maine PHCC Scholarship - Up to \$500 per member per year.
- MEMA has generously offered to charge the membership rate for anyone receiving a scholarship.
- \$500 reimbursement from the State of Maine for apprentices completing Plumbing 101 of the PHCC Academy e-learning.

Courses or Programs for plumbing, oil, gas, hvac offered through PHCC, MEMA, Community Colleges or NTI.

### PHCC National Auxilliary Scholarships

The PHCC—National Auxiliary awards more than \$40,000 in scholarships each year, with more than 20 individual scholarships awarded in a typical year. Applicants must secure a recommendation from a PHCC—National Auxiliary member. All submissions must be completed by August 15 for classes beginning in the fall. <https://www.phccnationalauxiliary.org/scholarships>

*More scholarship information is available on the next page.*

# **National PHCC Scholarships**

## **Access 61 scholarships worth up to \$160,000, all with one application!**

The PHCC Educational Foundation and its industry partners are teaming up to provide financial assistance to students pursuing a career in the p-h-c industry.

Contractors, be sure to have your apprentices apply! Even if your company pays for apprenticeship training, a scholarship win will help offset your training costs and build a sense of accomplishment for the apprentice who wins. Please limit applications to a **max of four per company** and tap your best set of apprentices to send in their applications.

**<https://www.surveymonkey.com/r/2022-PHCC-Scholarships>**

All applications with complete submission materials are due by **May 1st, 2022**. Questions? E-mail us at [scholarships@naphcc.org](mailto:scholarships@naphcc.org).

### **\*NEW CHANGES FOR 2021 PROGRAM YEAR\***

The Foundation Scholarship Committee approved these new adjustments to the scholarship program.

- Plumbing and HVAC apprentices may use scholarship funds toward their required apprenticeship program textbook expenses (does not apply to college or trade schools).
- Scholarships may be used toward the PHCC Educational Foundation's online apprenticeship training program or Fast Track to Service Plumbing course. The apprentice or technician must be employed by a PHCC—National Association contractor member company.

For the 2021 scholarship program only:

- An applicant who has previously won a Foundation scholarship may apply for another scholarship in 2021, as long as they continue to meet all other eligibility requirements. Past winners who have been awarded more than one past scholarship may apply, but a small deductive score modifier will be applied.

AND

- Apprentices working part-time (not just full-time) for a PHCC member company may also apply for the Foundation scholarships.

# SPECIFICATION SALES AGENCY, INC.

MANUFACTURES REPRESENTATIVES-SALES  
ENGINEERS 28 SYCAMORE AVE., MEDFORD, MA 02155  
TEL (781) 396-0842 • FAX (781) 395-6856  
43 W. BARE HILL RD., HARVARD, MA 01451  
TEL (978) 456-9582

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**ACO TRENCH DRAIN SYSTEMS**  
*A Division of J.R. Smith Mfg., Co.*

**ACORN ENGINEERING COMPANY/MGI**  
*Acorn Controls, Drinking Fountains, Coolers, Safety & Emergency Equipment, Vacuum Products, Chronomite Water Heaters, Elmdor Access Doors, Whitehall Healthcare and Neo Metro*

**LEAK GOPHER**  
*Flood Stop Devices*

**JAY R. SMITH MFG., CO., INC.**  
*Plumbing Drainage Products*

**MURDOCK-SUPER SECUR**  
*Division of Acorn*

**RAIN WATER MANAGEMENT**  
*Rain Water Harvest Products*

**WHITEHALL MANUFACTURING**  
*Healthcare Division of Acorn*

**www.specsalesinc.com**

# CALENDAR YEAR 2022

JANUARY							FEBRUARY							MARCH						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
					1				1	2	3	4	5			1	2	3	4	5
2	3	4	5	6	7	8	6	7	8	9	10	11	12	6	7	8	9	10	11	12
9	10	11	12	13	14	15	13	14	15	16	17	18	19	13	14	15	16	17	18	19
16	17	18	19	20	21	22	20	21	22	23	24	25	26	20	21	22	23	24	25	26
23	24	25	26	27	28	29	27	28						27	28	29	30	31		
30	31																			
APRIL							MAY							JUNE						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
					1	2	1	2	3	4	5	6	7			1	2	3	4	
3	4	5	6	7	8	9	8	9	10	11	12	13	14	5	6	7	8	9	10	11
10	11	12	13	14	15	16	15	16	17	18	19	20	21	12	13	14	15	16	17	18
17	18	19	20	21	22	23	22	23	24	25	26	27	28	19	20	21	22	23	24	25
24	25	26	27	28	29	30	29	30	31					26	27	28	29	30		
JULY							AUGUST							SEPTEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
					1	2	1	2	3	4	5	6				1	2	3		
3	4	5	6	7	8	9	7	8	9	10	11	12	13	4	5	6	7	8	9	10
10	11	12	13	14	15	16	14	15	16	17	18	19	20	11	12	13	14	15	16	17
17	18	19	20	21	22	23	21	22	23	24	25	26	27	18	19	20	21	22	23	24
24	25	26	27	28	29	30	28	29	30	31				25	26	27	28	29	30	
31																				
OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
					1				1	2	3	4	5				1	2	3	
2	3	4	5	6	7	8	6	7	8	9	10	11	12	4	5	6	7	8	9	10
9	10	11	12	13	14	15	13	14	15	16	17	18	19	11	12	13	14	15	16	17
16	17	18	19	20	21	22	20	21	22	23	24	25	26	18	19	20	21	22	23	24
23	24	25	26	27	28	29	27	28	29	30				25	26	27	28	29	30	31
30	31																			

## HOLIDAYS & OBSERVANCES

<b>Jan 1</b> New Year's Day	<b>Apr 18</b> Easter Monday	<b>Sep 5</b> Labor Day
<b>Jan 17</b> Martin Luther King Day	<b>May 8</b> Mother's Day	<b>Oct 10</b> Columbus Day
<b>Feb 21</b> Presidents' Day	<b>May 30</b> Memorial Day	<b>Nov 11</b> Veterans Day
<b>Apr 15</b> Good Friday	<b>Jun 19</b> Father's Day	<b>Nov 24</b> Thanksgiving Day
<b>Apr 17</b> Easter Sunday	<b>Jul 4</b> Independence Day	<b>Dec 25</b> Christmas Day

# CALENDAR YEAR 2023

JANUARY							FEBRUARY							MARCH						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7			1	2	3	4			1	2	3	4		
8	9	10	11	12	13	14	5	6	7	8	9	10	11	5	6	7	8	9	10	11
15	16	17	18	19	20	21	12	13	14	15	16	17	18	12	13	14	15	16	17	18
22	23	24	25	26	27	28	19	20	21	22	23	24	25	19	20	21	22	23	24	25
29	30	31					26	27	28					26	27	28	29	30	31	
APRIL							MAY							JUNE						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
						1		1	2	3	4	5	6		1	2	3			
2	3	4	5	6	7	8	7	8	9	10	11	12	13	4	5	6	7	8	9	10
9	10	11	12	13	14	15	14	15	16	17	18	19	20	11	12	13	14	15	16	17
16	17	18	19	20	21	22	21	22	23	24	25	26	27	18	19	20	21	22	23	24
23	24	25	26	27	28	29	28	29	30	31				25	26	27	28	29	30	
30																				
JULY							AUGUST							SEPTEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
						1		1	2	3	4	5			1	2				
2	3	4	5	6	7	8	6	7	8	9	10	11	12	3	4	5	6	7	8	9
9	10	11	12	13	14	15	13	14	15	16	17	18	19	10	11	12	13	14	15	16
16	17	18	19	20	21	22	20	21	22	23	24	25	26	17	18	19	20	21	22	23
23	24	25	26	27	28	29	27	28	29	30	31			24	25	26	27	28	29	30
30	31																			
OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7			1	2	3	4			1	2				
8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9
15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	14	15	16
22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23
29	30	31					26	27	28	29	30			24	25	26	27	28	29	30
														31						

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<b>Jan 1</b>	New Year's Day	<b>Apr 10</b>	Easter Monday	<b>Sep 4</b>	Labor Day
<b>Jan 16</b>	Martin Luther King Day	<b>May 14</b>	Mother's Day	<b>Oct 9</b>	Columbus Day
<b>Feb 20</b>	Presidents' Day	<b>May 29</b>	Memorial Day	<b>Nov 11</b>	Veterans Day
<b>Apr 7</b>	Good Friday	<b>Jun 18</b>	Father's Day	<b>Nov 23</b>	Thanksgiving Day
<b>Apr 9</b>	Easter Sunday	<b>Jul 4</b>	Independence Day	<b>Dec 25</b>	Christmas Day



## Introductory Membership Special

### 2022 Membership Application

Simply fill out and return this form to:

**Maine PHCC 69 Rock Ridge Run, Cumberland, ME 04021**

For more information please call (207) 829-5055 or visit

[www.mainePHCC.com](http://www.mainePHCC.com) (Maine) or [www.phccweb.org](http://www.phccweb.org) (National)

Name: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_ Email: \_\_\_\_\_

Mail Check Or charge to:  American Express  Visa  Mastercard **Amount \$362.50**

Card Number: \_\_\_\_\_ Exp. Date: \_\_\_\_\_ CSV Code \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Please check the areas of most interest to you:

- |  |  |
|--|--|
| <input type="checkbox"/> Industry Networking   | <input type="checkbox"/> Industry News |
| <input type="checkbox"/> Workforce Development | <input type="checkbox"/> Legislation   |
| <input type="checkbox"/> Education             | <input type="checkbox"/> Benefits      |

I understand that by providing my mailing address, email address, telephone number and fax number, I consent to receive communication sent by or on behalf of the Plumbing-Heating-Cooling Contractors via regular mail, email, telephone or fax. I understand that the Plumbing-Heating-Cooling Contractors Association will not share my address, e-mail, telephone or fax numbers with other organizations.

**Contractor Dues \$725**

**Associate Member Dues \$300**

**New Members only \$362.50**

Join now for a 50% reduction of the first year dues and  
a 25% reduction for the second year.

Includes State and National dues and benefits.