

MINI-THERM

Gas-Fired Residential Hydronic Boilers



Reliable,

Efficient

and Quiet



LAARS 
Heating Systems Company

A subsidiary of **BRADFORD WHITE**
CORPORATION

The Compact Mini-Therm™

For Superb Home Heating Comfort

LAARS MINI-THERM gas-fired residential hydronic boiler is the ideal heating appliance that saves home owners money on heating costs and has plenty of capacity to keep even the largest home comfortable on the coldest days. The compact boiler comes in three varieties (JVT-standing pilot, JVS-spark ignition, and JVH-hot surface ignition with induced draft) to meet your installation needs... and your budget.

Newly improved Mini-Therm, features an attractive and easy-to-

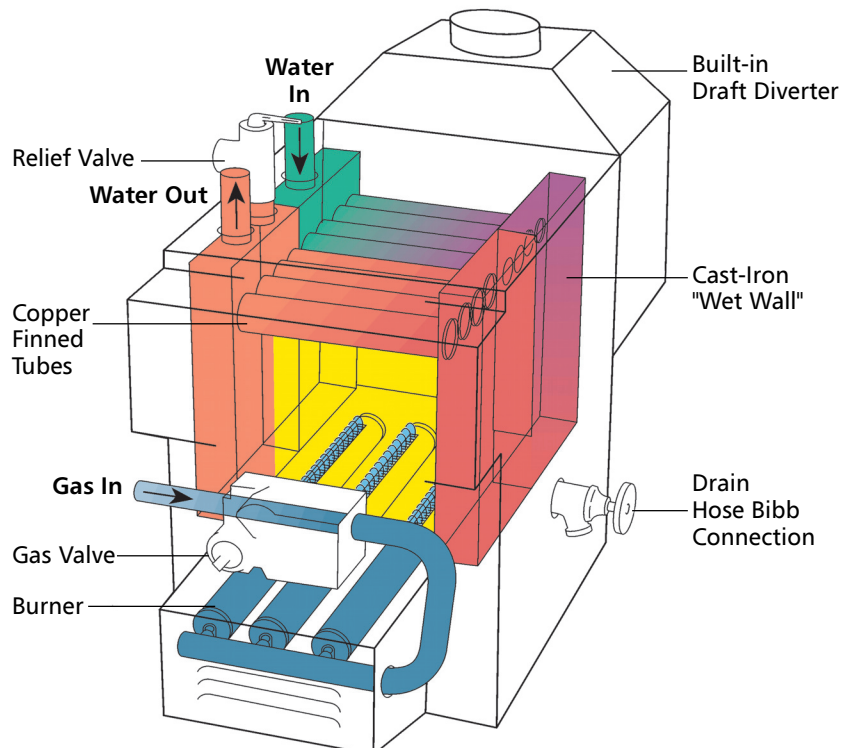
service jacket, low-mass heat exchanger and a super-quick heating response to meet your residential application requirements. Ideal for new homes or replacement boilers, the Mini-Therm boiler operates efficiently to save energy and minimize utility bills, and is very compact, to save space. It's also easy to install, and its reliability has been proven in the field over many years to give you years of heating comfort and excellent dependability.

Natural or propane gas models are available for all ignition types - even at high altitudes.

Mini-Therm boilers offer exceptional value with "high performance hydronics" that give customers the highest performance at the lowest cost. By far, Mini-Therm is the right solution for any size residential home heating system.

Mini-Therm Features

- Attractive, new easy-to-service jacket
- Compact design = small footprint
- Six sizes: 50, 75, 100, 125, 160 & 225 to suit any home
- Copper-finned tube heat exchanger with cast iron "wet walls"
- On/Off or 2-Stage firing modes (varies by model)
- Up to 84% AFUE
- Optional circulating pump
- Several venting choices include side-wall or chimney options
- Easy to install



The Right Solution for Home Heating Systems

Mini-Therm JV

Extremely popular with homeowners, JVT & JVS models offer a new attractive and easy-to-service jacket. Well-known for their economy, both models come with a built-in draft diverter and automatic vent damper to stop your valuable fuel payments from disappearing up the chimney in wasted heat.

JVT-standing pilot ignition models use single-stage, on/off firing modes for all six sizes. JVS-spark ignition models also use the on/off mode for the two smaller sizes



(50 & 75), but offer energy saving "Low/High" firing for sizes 100, 125, 160 & 225. The advantage is

that 2-Stage firing allows the unit to match the heating load requirement, reducing short-cycling in homes that have small heating zones that don't require the full boiler capacity... another way to save energy.

JVT & JVS Features:

- Standing pilot (JVT) or intermittent spark (JVS) ignition
- Up to 84.4% AFUE
- Single stage on/off & 2-Stage firing modes
- Sleek jacket removes easily for quicker service

JVT JVS Size	Input		JVT Firing Mode	JVS Firing Mode	Heat Capacity		Net IBR		JVT AFUE %	JVS AFUE %
	BTU/h x 1000	kW			BTU/h x 1000	kW	BTU/h x 1000	kW		
50	50	14.6	On/Off	On/Off	42	12.3	36.5	10.7	80.2	84.4
75	75	21.9	On/Off	On/Off	63	18.5	54.8	16.1	80.5	84.0
100	100	29.1	On/Off	2-Stage	84	24.6	73.0	21.4	80.7	82.0
125	125	36.6	On/Off	2-Stage	105	30.8	91.3	26.8	80.7	81.9
160	160	46.8	On/Off	2-Stage	134	39.3	116.9	34.3	81.0	80.2
225	225	65.9	On/Off	2-Stage	189	55.4	164.3	48.1	81.5	81.8

Mini-Therm JVi

Mini-Therm JVH uses an H.S.I. (hot surface ignition system) to operate all six sizes in single-stage, on/off firing modes. The boiler is equipped with a draft blower that permits side-wall or chimney venting. Compact models are also easy to install, operate and maintain.

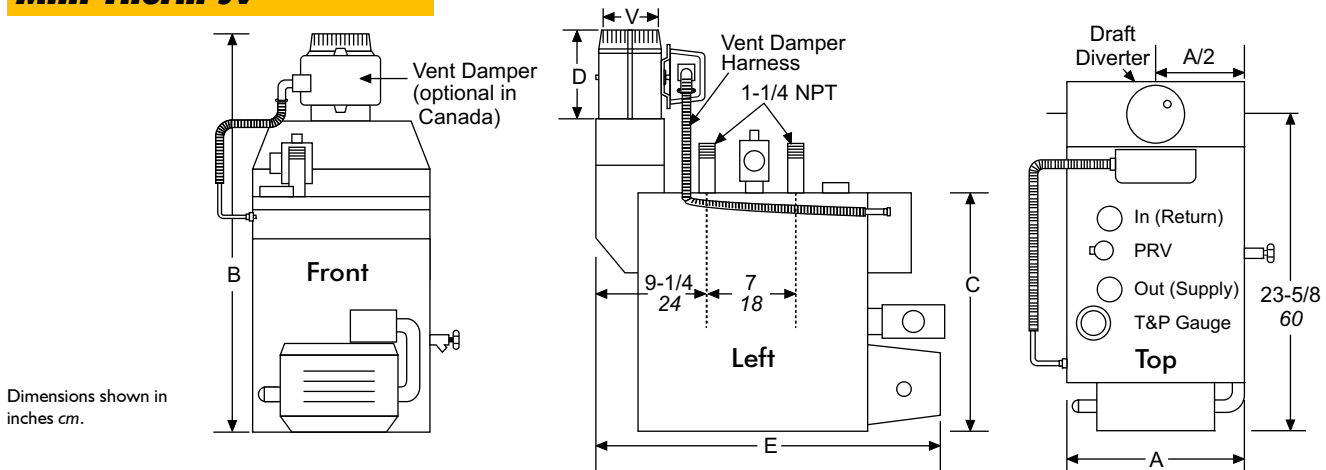
JVH Features:

- Hot surface ignition system
- Up to 83% AFUE
- Single-stage on/off firing mode
- Induced draft system with gravity operated vent damper



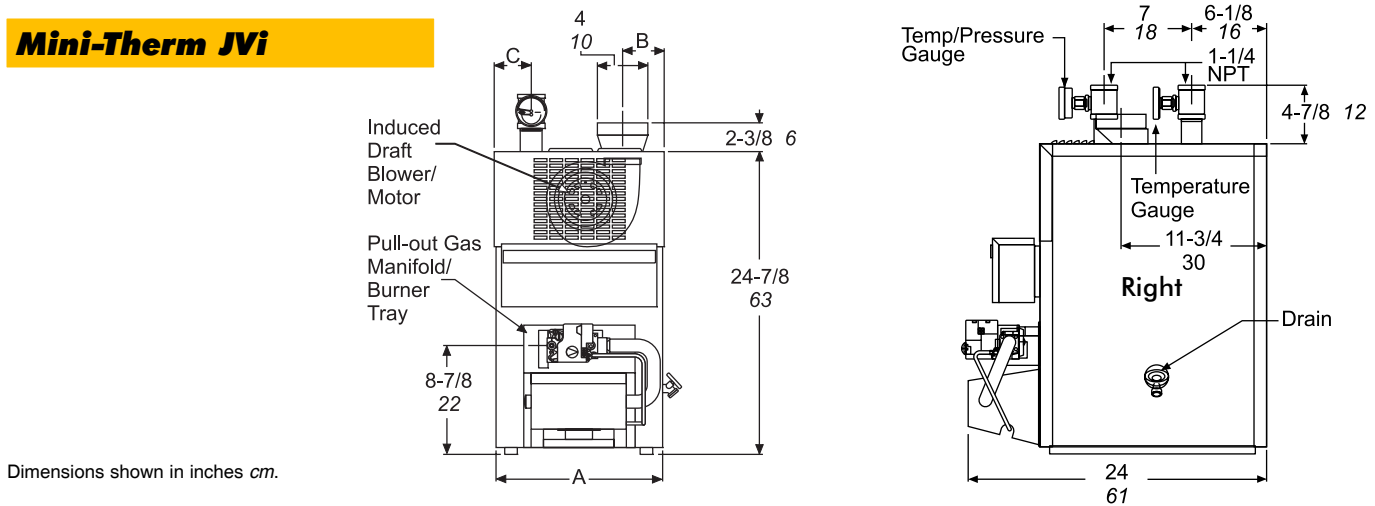
JVH Size	Input		Firing Mode	Heat Capacity		Net IBR		AFUE %
	BTU/h x 1000	kW		BTU/h x 1000	kW	BTU/h x 1000	kW	
50	50	14.6	On/Off	41.5	12.1	36.1	10.5	83.4
75	75	21.9	On/Off	62.3	18.2	54.2	15.8	83.2
100	100	29.1	On/Off	82	24	72.6	21.3	82.4
125	125	36.6	On/Off	102.5	30	89.6	26.7	82.4
160	160	46.8	On/Off	131.2	38.4	114.1	33.4	82.3
225	225	65.9	On/Off	184.5	54	160.4	46.9	82.2

Mini-Therm JV



JVT JVS Size	Dimensions												Water Conn. in.	Gas Conn. in.	Approx. Weight lbs. kg			
	A		B		C		D		E		F						V	
	inches	cm	inches	cm	inches	cm	inches	cm	inches	cm	inches	cm					inches	cm
50	13-3/8	34	27-3/4	71	23-5/8	60	21-3/4	55	26-1/2	67	18	46	4	10	1-1/4	1/2	120	54
75	13-3/8	34	27-3/4	71	24-1/8	61	21-3/4	55	27-1/2	70	18	46	5	13	1-1/4	1/2	126	57
100	16-7/8	43	28-3/4	73	24-1/8	61	22-3/4	58	27-1/2	70	18	46	5	13	1-1/4	1/2	134	61
125	16-7/8	43	28-3/4	73	23-5/8	60	22-3/4	58	27-1/2	70	18	46	6	15	1-1/4	1/2	138	63
160	20-3/8	52	28-3/4	73	23-5/8	60	22-3/4	58	27-1/2	70	18	46	6	15	1-1/4	1/2	164	74
225	25-5/8	65	31-1/2	80	23-1/4	59	24-3/4	63	27-1/2	70	20	51	7	18	1-1/4	1/2	181	82

Mini-Therm JVi



JVH Size	Dimensions						Water Conn. inches	Gas Conn. inches	Approx. Weight	
	A		B		C				lbs.	kg
	inches	cm	inches	cm	inches	cm				
50	13-3/8	34	3-1/8	8	2-7/8	7	1-1/4	1/2	160	73
75	13-3/8	34	4-1/4	11	2	5	1-1/4	1/2	165	75
100	16-7/8	43	5-3/4	15	2-7/8	7	1-1/4	1/2	180	82
125	16-7/8	43	5-1/2	14	2	5	1-1/4	1/2	185	84
160	20-3/8	52	7-1/4	18	2	5	1-1/4	1/2	210	99
225	25-5/8	65	10	25	2	5	1-1/4	1/2	225	102