LAARS MINI-THERM® JX

Gas-Fired Residential Hydronic Boiler





PERFECT BALANCE OF TECHNOLOGY, EFFICIENCY & VALUE

LAARS® Heating Systems Company

Built to be the Best®

LAARS MINI-THERM JX

PROVEN INNOVATION

The Laars Mini-Therm JX is a reliable gas-fired residential boiler with plenty of capacity to keep even the largest home comfortable on the coldest days. The compact boiler has an efficient low-mass heat exchanger and a super-quick heating response to deliver years of warmth and comfort to your home.



Reliable Heating with a 20 Year Warranty
Field proven long-life heat exchanger design offers dependable performance, year after year

Energy Saving "Economy Mode" Built-In
Economy mode optimizes fuel use and reduces energy bills over time by tracking a home's heat use pattern and adjusting boiler water temperature, up or down, as needed

Environmentally Friendly
Reduced fuel use and lower emission levels as compared to older, low efficient boilers

Easy to Install and Maintain
New or retrofit, the Mini-Therm meets the need with an impressive array of built in features and reliable field proven components

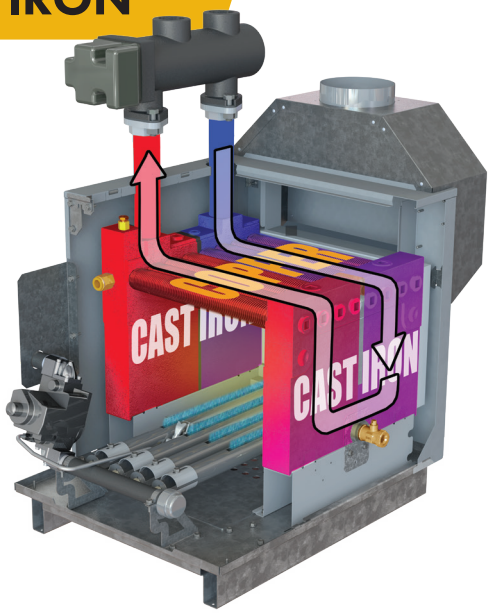
Long Life Hybrid Heat Exchanger
The right combination of copper and cast-iron construction results in a light weight, responsive, and long lasting heat exchanger

Designed and Built at the Laars Headquarters in Rochester, NH USA

COMBINED BENEFITS OF COPPER & CAST IRON

The Mini-Therm JX has a unique, field-proven heat exchanger design that intelligently combines finned copper tubing with cast iron "wet walls" to create a perfect balance of quick heat transfer and stored heat:

- Copper transfers heat up to 7x faster than cast iron for a faster heating response
- Cast iron wet walls store excess heat to minimize short cycling - increasing efficiency and heat exchanger life
- Mini-Therm JX is smaller & lighter than traditional cast iron boilers making installation and maintenance much easier



EXCEPTIONAL VALUE - HIGH PERFORMANCE

FLEXIBLE INSTALLATION



Compact, Light Weight Design!

You spoke and we listened! We redesigned the Mini-Therm to meet the needs of the modern home, for both the homeowner and contractor.

- Great for new or replacement jobs
- Easy to install and maintain
- Standard tapping locations make this a simple retrofit for most existing installations
- Compact footprint and light weight
  - Often times reduces the install from a two person to a one person job
- Category I Chimney Vent
  - Includes vent damper, and integral draft diverter
- Optional power venter for side wall venting
- Non-combustible base

MINI-THERM JX CONTROL ADVANTAGE



- ✓ Integral low water cut off, manual or automatic reset mode
- ✓ Digital temperature display
- ✓ Contacts to control three pumps (boiler, system, DHW)
- ✓ Economy modes auto adjusts water temperatures to reduce fuel use
- ✓ Outdoor reset capability
- ✓ Spark to pilot ignition
- ✓ Low voltage terminal block for ease of installation and wiring
- ✓ Domestic hot water priority for indirect water heater installations
- ✓ Powered relay contacts for external devices (power venter, louvers, fans, etc.)

THE LAARS LOW LOSS HEADER SYSTEM



- Maintains the correct temperature rise (Delta-T) across the heat exchanger - offering improved performance and longer heat exchanger life
- Protects the heat exchanger from low return water temperatures
- Allows for direct replacement of traditionally piped cast iron boilers
- Low loss header comes standard on 125, 150, and 200 MBH models
- Optional on 50, 75 and 100 MBH models

LAARS MINI-THERM® JX SPECIFICATIONS

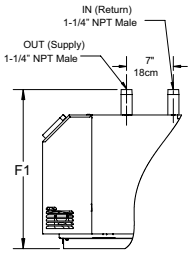
Sizing Data

Size	Input		AHRI Certified Heating Capacity Nat Gas		Net AHRI Rating		AHRI Certified AFUE %	Water Conn.	Gas Conn.	Weight Lbs	Shipping Weight Lbs
	MBTU/h	kW	MBTU/h	kW	MBTU/h	kW	%	in.	in.		
50	**50**	14.7	**42**	12.6	37	10.8	84	1-1/4	3/4	116*	136*
75	**75**	22.0	**63**	18.8	55	16.1	84	1-1/4	3/4	127*	148*
100	**100**	29.3	**84**	24.9	73	21.4	84	1-1/4	3/4	141*	153*
125	**125**	36.6	**105**	31.1	91	26.7	84	1-1/4	3/4	164	191
150	**150**	44.0	**126**	37.2	110	32.2	84	1-1/4	3/4	176	202
200	**199**	58.3	**168**	49.2	146	42.8	84	1-1/4	3/4	206	237

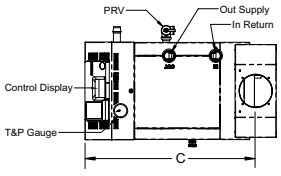
Note: The Net AHRI Water Ratings shown are based on a piping and pickup allowance of 1.15. *Add approximately 9 Lbs for unit with pump.

Dimensional Data

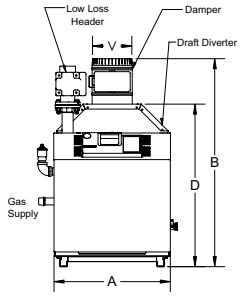
Size	A		B		C		D		E		F1		F2		V		Water Conn. (inches)	Gas Conn. (inches)
	in.	cm	in.	cm	in.	cm	in.	cm	in.	cm	in.	cm	in.	cm	in.	cm	1-1/4	3/4
50	11-3/4	30	31-5/8	80	25-1/8	64	24-3/4	63	27-5/8	70	24-7/8	63	-	-	4	10	1-1/4	3/4
75	14-1/2	37	31-5/8	80	25-5/8	65	24-3/4	63	28-5/8	73	24-7/8	63	-	-	5	13	1-1/4	3/4
100	17-3/8	45	32-1/8	82	25-1/2	65	25-3/8	65	28-5/8	73	24-7/8	63	-	-	5	13	1-1/4	3/4
125	20-1/8	52	32-1/8	82	25	64	25-3/8	65	28-5/8	73	-	-	31	79	6	15	1-1/4	3/4
150	23	59	32-1/8	82	25	64	25-3/8	65	28-5/8	73	-	-	31	79	6	15	1-1/4	3/4
200	28-3/8	73	32-1/4	82	24-5/8	63	26-1/4	67	28-5/8	73	-	-	31	79	7	18	1-1/4	3/4



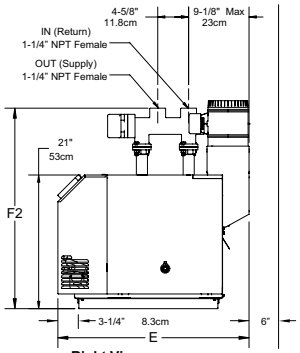
Right View (50, 75, 100)



Top View Low Loss Header & Damper not shown



Front View

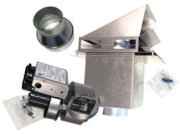


Right View (125, 150, 200)

ACCESSORIES








PN: CA019600	See IOM for part number	See IOM for part number	PN: CA019400	PN: CA019501 (50-100) CA019502 (125 - 200)	PN: CA005400
Low Loss Header with Integral Pump (50-100)	Propane Conversion Kit	High Altitude Conversion Kit	DHW Pump Relay Kit	Power Vent Kit*	Outdoor Air Sensor

* Includes: Power venter, through wall vent terminal, and necessary reducers.

LAARS® Heating Systems Company

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