

LAARS[®] FT SERIES



Wall Hung Boiler or
Combination Boiler
& Water Heater

Ultra-high 95% efficiency

HIGH EFFICIENCY &
ENVIRONMENTALLY FRIENDLY

LAARS[®] 
Heating Systems Company

Built to be the Best[®]

COMFORT • RELIABILITY • PEACE OF MIND



Since our beginning as Laars Engineering in 1948, Laars has embodied innovation and advancement in heating technology. We have built upon our technology over the past seventy plus years to ensure Laars products meet the demands of today's discerning customer.

Laars stands behind each of its products with stringent quality standards which require each unit to be live-fired before it's packaged, and a service and support team that places the customer and their needs first – every time.

Laars products are widely used in space heating, radiant floor heating, volume water heating and industrial process markets. Laars' years of experience, world class engineering, and customer support combine to make us your go-to experts in home heating. Laars brings comfort, reliability, and peace of mind to you and your home.

HEAT AND HOT WATER FOR EVERYONE

FIND REBATES AND
TAX CREDITS AT LAARS.COM

The Laars FT Series advanced fire tube heat exchanger uses the latest technology in fire tube construction with a corrosion-resistant stainless steel design, resulting in quick heating response, ultra high efficiency & years of reliable service.

This design greatly reduces heating bills when compared to older, low-efficient boilers – up to 20% lower! Potentially saves thousands of dollars in heating bills over the life of the boiler.



ON DEMAND DOMESTIC HOT WATER



Domestic Hot Water Mini-Tank

By combining both storage and recovery capacity, the FT Series Combi boiler's unique, integrated domestic hot water mini-indirect tank delivers stable hot water on demand.

- Contains up to one gallon of stored hot water on standby at all times
- Provides immediate response, greatly reducing "time-to-faucet"
- FT Series mini-indirect tank technology:
 - Domestic hot water stored in a coiled, stainless tube
 - 158°F boiler water surrounds the domestic hot water coil keeping it hot at all times
 - Tank is surrounded in a heavily-insulated wrap to minimize heat loss

LAARS FT SERIES PROVEN INNOVATION



Modulates with up to 10:1 turndown to reduce energy use



Durable, Stainless Steel Fire Tube Heat Exchanger offers long life and superior heating performance



Environmentally friendly, ultra high 95% AFUE efficiency



Long life, high performance blower offers reliable, quiet operation



Integrated, fast acting domestic hot water tank resulting in hot water fast, when you need it

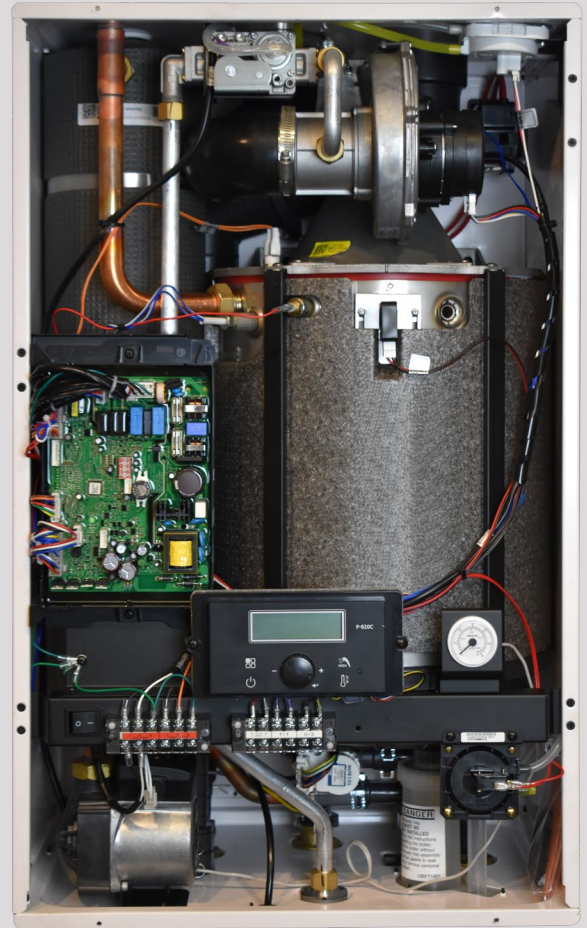


Left side access panel to help get to hard to reach components



Laars Advanced Control System

- Quick set-up control functions
- Outdoor Reset, to maximize efficiency
- Conformal coating encapsulates control board protecting it from moisture
- Anti-freezing control
- Cascade up to 20 heating only units



CONTRACTOR FRIENDLY

Designed for easy installation and constructed with the installer in mind!

INCLUDED WITH FT SERIES



Central Heat Circulator



Primeless Condensate Trap



Automatic Air Elimination Vent



Wall Mounting Kit



Propane Conversion Kit



Outdoor Sensor Kit

OPTIONAL INSTALLATION ACCESSORIES



Condensate Neutralizer
A2123601



Piping Manifold – Combi
P2134400



Piping Manifold – Heat Only
100-140 MBH – P2135900
199 MBH – P2135800



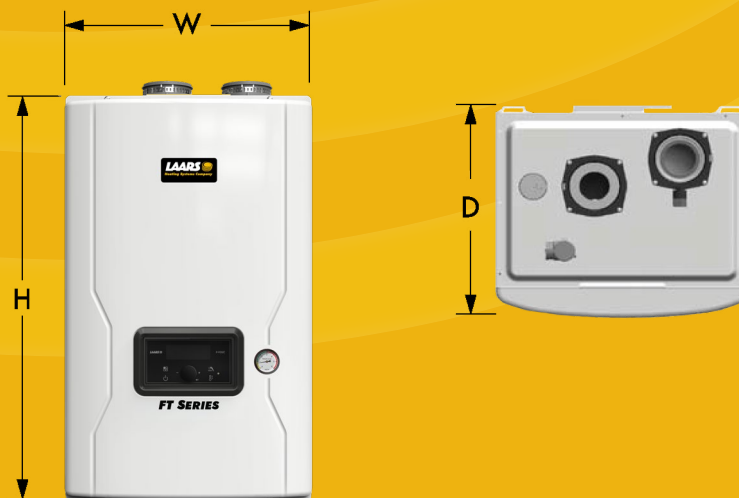
Vent Terminal – Flush
2" CA010100
3" CA010101



Vent Terminal – Bazooka
2" 239-44069-02
3" 239-44069-01

LAARS® FT SERIES SPECIFICATIONS

SPECIFICATION	UNITS/CONDITION	Combi Boilers		Heating Only Boilers		
		MFTCW140	MFTCW199	MFTHW100	MFTHW140	MFTHW199
Input, Max Fire	MBH (kW)	140 (41)	199 (58)	100 (29)	140 (41)	199 (58)
AHRI Cert. Heating Capacity	MBH (kW)	129 (38)	181 (53)	93 (27)	129 (38)	181 (53)
Weight, Unit	lbs. (kg)	111 (50)	130 (59)	98 (44)	102 (46)	118 (54)
H x W x D	Inches (cm)	29 x 17 3/8 x 15 1/2 (73 x 44 x 40)	32 x 19 3/4 x 16 7/8 (81 x 50 x 41)	29 x 17 3/8 x 15 3/8 (74 x 44 x 39)		32 x 19 3/4 x 16 7/8 (81 x 50 x 41)
Turndown	-	10:1	10:1	5:1	10:1	10:1
Heating "CH" Supply	NPT	1"		1 1/4"		
Heating "CH" Return	NPT	1"		1 1/4"		
DHW Outlet	NPT	3/4"		-		
DHW Inlet	NPT	3/4"		-		
DHW Flow Rate	35°F Rise - GPM (l/m)	7.1 (27)	9.8 (37)	-		
	45°F Rise - GPM (l/m)	5.5 (21)	7.7 (29)	-		
	77°F Rise - GPM (l/m)	3.2 (12)	4.8 (18)	-		
Minimum Flow Rate	GPM (l/m)	0.5 (1.9)		-		
Gas Inlet	NPT			3/4"		
Certified Efficiency	AFUE			95%		
Condensate Line	NPT			1/2"		
Gas Supply Pressure	In WC	3.5 - 10.5 natural gas, 8-13 propane				
Pressure Relief Settings	psi (kPa)	30 (207)				
Air Intake Collar	Inches (cm)	3 (7.6)				
Exhaust Outlet Collar	Inches (cm)	3 (7.6)				
Vent Diameter & Equivalent Length	Inches/ft.	2/50				
		3/100				
Vent Material	-	PVC, CPVC, Polypropylene, SS AL29-4C				
Fuel	-	Natural Gas or Propane (propane conversion kit included)				
Power Supply	Volts/Hertz	120/60				
Warranty	-	Limited 10 year heat exchanger / 5 year parts				



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