

INOV8

“a powerhouse of low-cost heat”



Control No. 3120734

multi-fuel furnace - model F450

Unique features of this furnace include 'fire-down' burner configuration, vertical combustion chamber & heat exchanger surfaces (eliminating ash build-up on heat transfer surfaces allowing high efficiency between cleaning while protecting steel from corrosion), make-up air capability, and fully ductible. The INOV8 S200 Burner used on this furnace provides the same SAFE, CLEAN and RELIABLE features as all INOV8 products.

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Safety is our highest priority and is the reason we use the only industrial-rated electronic burner control in the industry, with a UV sensor, pre-purge, pre-heat, and auto-restart ignition plus safety lockout. Our exclusive needle valve prevents nozzle drip and clears obstructions at each ignition cycle.

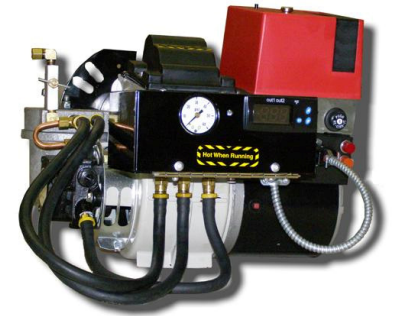
Clean burning means thermal efficiency, whereby usable heat is delivered to the workspace by virtue of the high-efficiency heat exchanger, which is constructed of durable, corrosion-resistant aluminized steel. Zero smoke and near-perfect combustion efficiency makes for clean equipment and clean stack emissions.

Reliable operation is a given, with the patented vapor eliminator and integral fuel pump ensuring smooth and uninterrupted combustion for safe, clean, and reliable burn cycles.

Fuel versatility is our strong suit, as the F450 will accept a wide range of combustible liquids including, but not exclusively: diesel, up to #6 fuel oil, all weights of crankcase oil including synthetic, 90-weight gear, transmission and hydraulic fluid, etc. The digital temperature control enables on-site adjustment.

Maintenance friendly with a swing-out burner facilitating periodic cleaning of the combustion chamber and a built-in hour meter for scheduled tune-ups.

Customer Service is just a phone call away with ready parts and knowledgeable technicians to keep your new investment running perfectly.



Burner model S200



Model F450 Specifications

The unique design of the model F450 furnace addresses two of the main challenges the industry has faced with cabinet fatigue and loss caused by the heat transfer efficiency. The heat exchanger sections expand independently to accommodate the extreme varying temperatures that can destroy the steel in a furnace. These heat exchanger sections are vertically arranged so that ash that typically builds up inside the furnace is sloughed off and accumulates on the bottom of the furnace. The burner mounts on top of the furnace and fires downward. This also allows the ash to collect on the bottom of the combustion chamber to provide easy removal through access panels.

The INOV8 model F450 furnace includes:

The cabinet with a squirrel cage blower, model S200 multi-fuel burner, barometric damper, floating pick-up assembly (which includes a check valve, in-line filter, tank fitting, piping & a float device), 120 volt wall thermostat, hanging brackets & bolts, automatic cleanout needle, and an automatic vent system.

The optional INOV8 300-gallon tank supports the furnace at the required 8 feet. The tank has 4 top and 2 bottom openings and includes a complete oil supply & return line, oil level gauge, furnace support stands, and a specially designed settling area inside the tank.

The warranty provides two years on parts and ten years limited warranty on the heat exchanger and cabinet. This product is fully tested and listed by Intertek ETL-Semko to latest safety standards in the United States and Canada - specifically to UL296A and CSA B140.0-03, B140.4-04 and B140.2.1-M90. The tank is listed to UL80 and CAN/ULC-S602-03.



The burner mounts on top & fires downward. Ash collects at the bottom for easy removal & prevents loss of heat transfer between cleanings.

F450 Furnace Specifications

Input – BTUH	450,000
Output – BTUH	382,500
Stack Size	8"
Cabinet Dimensions	79"L/40"W/54"H
Fuel Consumption	3.57 GPH
Weight	900 pounds
Electrical Voltage	120 volts (burner)
Electrical Voltage	240 volts (fan motor)
Amperage	17
Compressed Air	3.0 / 38 CFM/PSI
Cabinet Finish	Powder coated

Additional Features:

Three-pass, aluminized steel, swedged heat exchanger, ceramic target, 4000 CFM propeller fan, swing-out burner, quick-change control module, vapor eliminator, integral fuel pump, hour meter, industrial control, UV sensor, digital temp control, capable of use as "make-up air" heater.

Tank Specifications

Tank Model No.	T300 FB (F450)
Tank size inches	60Lx 41W x 32 H
Tank and Stands	300 gallon bench type
Tank Finish	Powder coated
Weight	475 pounds

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