

INOV8

SPECIFICATIONS FOR FURNACES

This equipment is tested and listed by **Intertek ETL Semko (ETL)** - an internationally recognized third party test agency to UL 296A - Standard for Safety for Waste Oil Burning Air-Heating Appliances, Edition 2, Revision 2006/03/08 (the U.S. used oil standard), and to CSA B140.0 General Requirements for Oil Burning Equipment General Instruction No 2-4 (R1991) Rev: 1991/01/01 and is listed with the European Economic Community with a CE registration number 3884/97. The INOV8 tanks are also tested and listed by ETL to UL 80 *Standard for Steel Tanks for Oil-Burned Fuel* and to *CAN/ULC-S602-03 (for use in Canada)*. The efficiency shall not be less than 80% and the emissions shall not exceed a number 2 Bacharach spot test, when combined with an INOV8 approved unit heater or boiler and burning listed fuels. The safety system shall be rated for commercial or industrial (as distinguished from residential) with the following features and standard equipment:

SPECIFICATIONS	F125	F240	F240 SC	F450
INPUT BTU	125,000	240,000	240,000	500,000
OUTPUT BTU	100,000	200,000	200,000	400,000
EFFICIENCY	80%	80%	80%	80%
FUEL USAGE, GPH	.84	1.68	1.68	3.57
HEATS AREA, SQ. FT**	3,500	6,000	6,000	12,500
BLOWER TYPE	Squirrel Cage	Propeller	Squirrel Cage	Squirrel Cage
BLOWER MOTOR HORSEPOWER	1/3	1/2	1	1 1/2
AIR MOVEMENT, CFM	1,000	3,600	2,400	4,000
DUCTIBLE	Yes	No	Yes	Yes
HEAT EXCH- ALUMINIZED STEEL, GAUGE	12	14	14	14
DIMENSIONS, LENGTH/WIDTH/HEIGHT	79/21/21	44/39/42	46/39/42	79/40/54
HANGING WEIGHT, LBS	350	450	475	850
SHIPPING WEIGHT, LBS	400	475	500	900
FLUE & CHIMNEY DIAMETER, INCHES	8	8	8	8
FLUE HEIGHT - MINIMUM, FEET	10	12	12	14
ELECTRICAL SUPPLY, VOLTS	120	120	120	240
ELECTRICAL DRAW (MAX), AMPS	17	17	17	17
COMPRESSED AIR REQUIREMENTS, CFM/PSI	2.0 / 30	2.0 / 30	2.0 / 30	3.0 / 38
MAKE-UP AIR CAPABILITY	No	No	No	Yes
SEALED COMBUSTION KIT AVAILABLE	Yes	Yes	Yes	No
SAFETY CONTROLS, STANDARD				
• Fireeye Industrial Control	Yes	Yes	Yes	Yes
• Ultraviolet flame detection	Yes	Yes	Yes	Yes

SPECIFICATIONS	F125	F200	F200 SC	F450
• 90 second ignition pre-purge cycle	Yes	Yes	Yes	Yes
• Continual proof of atomizing air	Yes	Yes	Yes	Yes
• Continual proof of combustion air	Yes	Yes	Yes	Yes
• Safe start sequence	Yes	Yes	Yes	Yes
• Trial for ignition – 10 seconds	Yes	Yes	Yes	Yes
• Flame failure shutoff, in 3 seconds	Yes	Yes	Yes	Yes
• Main flame trial for ignition	Yes	Yes	Yes	Yes
• Safety shut-down indicator light	Yes	Yes	Yes	Yes
• Fuel shut-off by solenoid valve	Yes	Yes	Yes	Yes
• Fuel shut-off by mechanical needle	Yes	Yes	Yes	Yes
• Line voltage thermostat controls burner power	Yes	Yes	Yes	Yes
• Oil temperature lockout	Yes	Yes	Yes	Yes
• Blocked filter indicator	Yes	Yes	Yes	Yes
CONVENIENCE CONTROLS:				
• Automatic restart	Yes	Yes	Yes	Yes
• Automatic nozzle cleanout	Yes	Yes	Yes	Yes
• Ignition test switch	Yes	Yes	Yes	Yes
• Dirty filter indicator light	Yes	Yes	Yes	Yes
• Hour meter	Yes	Yes	Yes	Yes
EQUIPMENT INCLUDED:				
• Air pressure regulator	Yes	Yes	Yes	Yes
• Barometric damper	Yes	Yes	Yes	Yes
• Floating pickup assembly	Yes	Yes	Yes	Yes
• Tank filter, housing & check valve	Yes	Yes	Yes	Yes
• 120 volt wall thermostat	Yes	Yes	Yes	Yes
• Heater on/off switch	Yes	Yes	Yes	Yes

Fuels capable of burning as fuel: Used crankcase oils, Fuel oils: #2 through #6, Transmission & Hydraulic oils, 90 weight gear box oil, Mineral spirits solvents, Machine shop cutting oils, Vegetable oils – new & used (soybean, peanut, canola, corn, olive), Synthetic oils, and Commercial & Military jet fuels.

*Based on 140,000 BTU/gallon

** Dependant on heat loss of building & local climate