



USED OIL BURNER SPECIFICATIONS

Models S200 & S700

The manufacturer shall provide a burner tested and listed by Intertek-ETL Semko, a national third party test agency to all application safety standards for use in the United States and in Canada: ANSI UL 296, Issue 1994/06/01, Ed: 10 Rev: 2006/02/24, Standard for Safety Oil Burners: CSA B140.0, Issue: 2003/10/01, Ed: 3, General Requirements for Oil Burning Equipment General Instruction No 2-4 (F1991). 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	S200	S700
INPUT BTU (x 1000)	125 to 650	700 to 1.1 M
FUEL USAGE, GPH	.84 to 4.6	5.0 to 7.2
DIMENSIONS, LENGTH/WIDTH/HEIGHT, INCHES	16 / 18 / 14	25 / 24 / 19
WEIGHT, LBS	50	72
ELECTRICAL SUPPLY, VOLTS	120	120
ELECTRICAL DRAW (MAX), AMPS	10	16
COMPRESSED AIR REQUIREMENTS, CFM	2.0 to 3.0	3.0 to 5.0
COMPRESSED AIR REQUIREMENTS, PSIG	30	38 to 80
FREQUENCY – HZ	60	60
240 VOLTS & 50 HZ AVAILABILITY	Yes	Yes
BURNER MOTOR, HP	1/5	1/2
BURNER RPM	3,450	3,450
SEALED COMBUSTION KIT AVAILABLE	Yes	No
SAFETY CONTROLS, STANDARD		
• Fireeye Industrial Control	Yes	Yes
• Ultraviolet flame detection	Yes	Yes
• 90 second ignition pre-purge cycle	Yes	Yes
• Continual proof of atomizing air	Yes	Yes
• Continual proof of combustion air	Yes	Yes
• Safe start sequence	Yes	Yes
• Trial for ignition – 10 seconds	Yes	Yes
• Flame failure shutoff, in 3 seconds	Yes	Yes
• Safety shut-down indicator light	Yes	Yes
• Main flame trial-for-ignition, 6 seconds	Yes	Yes
• Fuel shut-off by solenoid valve	Yes	Yes

SPECIFICATIONS	S200	S700
• Fuel shut-off by mechanical needle	Yes	Yes
• Line voltage thermostat controls burner power	Yes	Yes
• Oil temperature lockout	Yes	Yes
• Blocked filter indicator light	Yes	Yes
CONVENIENCE CONTROLS		
• Automatic restart	Yes	Yes
• Automatic nozzle cleanout	Yes	Yes
• Ignition test switch	Yes	Yes
• Dirty filter indicator light	Yes	Yes
• Hour Meter	Yes	Yes
• Air pressure regulator	Yes	Yes
• Heater on/off switch	Yes	Yes
• Digital Temperature Control	Yes	Yes

Listed fuels: Fuel oil, #2 up to #6

Fuels capable of burning as fuel (& warranted with written approval from INOV8): Used crankcase oils, Transmission & Hydraulic oils, 90 weight gear box oil, heat transfer 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 – oil must be analyzed for BTU content as oil pressure will vary.

** Dependant on heat loss of building & local climate

Note – if using burner on a boiler – refer to the Boiler Specification sheet for more detailed information on connection, settings and other requirements.