



WASTE GAS BURNER

MODELS 8391B & 8392B



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The Groth Models 8391B & 8392B Waste Gas Burner includes an ignition system with industry leading features. The burner wind shield contains the unique “downdraft prevention” with a bevel design which virtually eliminates the possibility of the flame being blown out. The design also provides the proper air/fuel mixture to ensure an efficient burn. The wind shield will deflect outside winds, up to 150 MPH, and operates efficiently in heavy rains preventing smoke and odors from permeating the surrounding area.

The Groth Model 8392B Waste Gas Burner features flame front ignition technology allowing pilot ignition from the ground. The “flame front” is contained within pilot ignition piping which is plumbed to the wind shield to ignite the gas stream. The technology built in to the 8392B makes this among the most efficient, durable, and easy to maintain waste gas burners available.

Technical Details

- Size: 2” (DN 50) through 12” (DN 300)
- Material: All stainless steel construction in flame area
- Enclosure: Nema 4, Weatherproof
- Pressure Switch
 - Explosion Proof: 4 - 20 InWC
 - Range: 0.4 - 0.6 InWC Deadband
- Pilot Fuel
 - Natural Gas – 4 InWC to 10 psig Supply Pressure
 - LPG – 1 psig to 10 psig Supply Pressure
 - Digester Gas 4 InWC to 10 psig Supply Pressure
 - Pilot Consumption: 22-150 SCFH
- Electrical
 - 115V, 1PH, 60 Hz, 10 AMP, grounded neutral Contacts for remote monitoring
 - (1) NO, 3 AMP, “Flame On”
 - (1) NO, 3 AMP, “Flame Failure”

Features

- Automatic ignition and re-ignition
- Stoichiometric pilot on all burners
- Efficient combustion with biogas BTU value as low as 400/cu. ft.
- Reliable “downdraft prevention” for wind protection
- Flame retention vortex vanes vastly improve burning efficiency
- Pilot system operates as low as 4 inWC (standard components)
- Safely incinerates waste gases preventing fugitive VOC emissions
- Reliable pilot gas ignition system ensures that the waste gas is properly incinerated
- Quick, easy maintenance

Options

- Optional Enclosure: Nema 4X, Nema 7
- Control panel sunshield*

*Model 8392B only

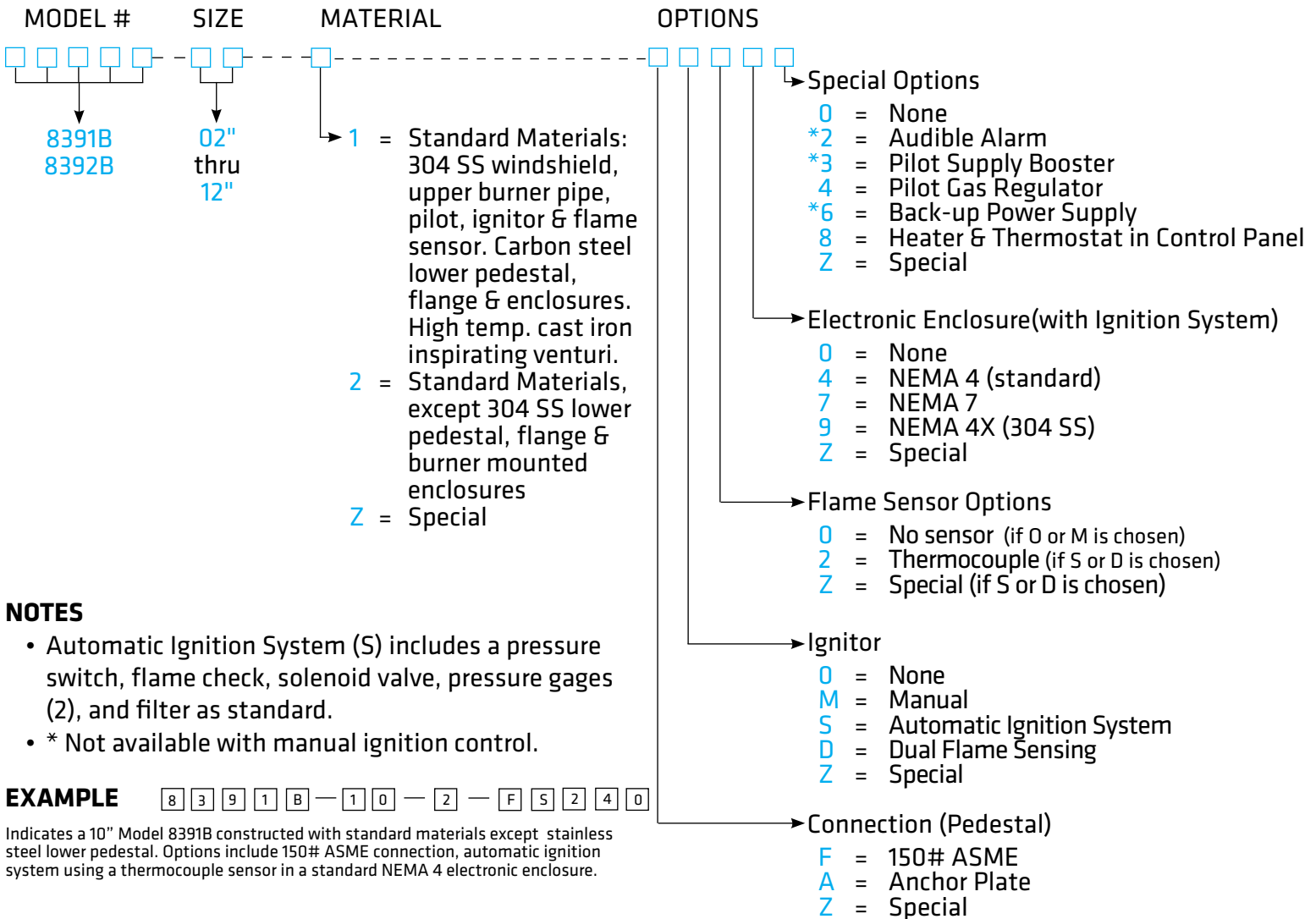
SPECIFICATIONS

Nominal Diameter of Burner D_T Inches(mm)	Flow Rate SCFH $S_G = 0.8$ $\Delta P = .50''$ WC Temp = 60°F (NM3/H)	Minimum Recommended Overall Height Above Grade H_S Feet(mm)	Minimum Recommended Safe Distance to Control Panel D_S Inches(mm)	Diameter of Shield D Inches(mm)	Burner Weight Lbs (kg)
2 (50)	4,040 (114)	10 (3.0)	8 (2.4)	18 (457)	176 (80)
3 (80)	9,090 (257)	12 (3.7)	10 (3.0)	18 (457)	212 (97)
4 (100)	16,200 (459)	12 (3.7)	15 (4.6)	24 (610)	272 (124)
6 (150)	36,400 (1031)	12 (3.7)	22 (6.7)	24 (610)	363 (165)
8 (200)	64,600 (1829)	16 (4.9)	28 (8.5)	30 (762)	512 (233)
10 (250)	100,930 (2858)	20 (6.1)	36 (11.0)	36 (914)	572 (260)
12 (300)	144,600 (4095)	25 (7.6)	42 (12.8)	36 (914)	619 (282)



HOW TO ORDER

For easy ordering, select proper model numbers



NOTES

- Automatic Ignition System (S) includes a pressure switch, flame check, solenoid valve, pressure gages (2), and filter as standard.
- * Not available with manual ignition control.

EXAMPLE 8391B — 10 — 2 — FS240

Indicates a 10" Model 8391B constructed with standard materials except stainless steel lower pedestal. Options include 150# ASME connection, automatic ignition system using a thermocouple sensor in a standard NEMA 4 electronic enclosure.



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