



**INSTRUCTIONS FOR COMPLETING FORM B2**

COMPLETE ALL APPLICABLE QUESTIONS. ALL APPLICATIONS MUST BE TYPED OR PRINTED WITH A BALL-POINT PEN (PREFERABLY TYPED).

SECTION A (Items 1-24)

<u>Question Number and Name</u>	<u>Specific Instructions</u>
1. Name of Owner	Name of owner of source for which application is being prepared.
2-5a. Number and Street address, emails, etc.	Mailing and email address of the owner.
6. Signature of Owner	Owner's signature.
7. Telephone	Telephone number of owner
8-13. Professional Engineer Information	Name, telephone number and mailing address of Professional Engineer licensed and registered in the State of New York authorized by owner to act as agent in filing application. A letter of authorization must be attached.
14-15. Stamp/Seal and License of P.E.	Stamp, seal and license number of P.E. preparing application.
16. Signature of Professional Engineer, etc.	Signature and date of signature of authorized P.E. must be affixed before application will be processed for a Permit to Construct.
17-21. Facility Information	Name and address of facility where process is located.
22-23. Facility phone and email	Phone and email of facility contact
24. Professional Engineer's email	NYSPE's email.

SECTION B (Items 25-33)

25. Emission Point I.D. No.	Specify the number or letter assigned to the emission point through which the contaminants are emitted from the furnace (units). Each stack within a facility must be assigned a different number or letter not to exceed five digits. The stacks must also be numbered on the site plans and/or drawings submitted. Historic stack IDs should not be reused.
26. Ground Elevation	Elevation above mean sea level at the base of the stack to the nearest foot (e.g., 120 rather than 119.6). This information is available from USGS topography maps.

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|-----|-------------------------|--|
| 27. | Height Above Structures | Height of the stack above the building or structure to the nearest foot (e.g., 39 rather than 38.7). If top of stack is below the building heights, it should be expressed as a negative number.     |
| 28. | Stack Height            | Height of the stack measured from ground level to top of stack to the nearest foot (e.g., 62 rather than 62.3).  |
| 29. | Inside Dimensions       | Inside diameter at the exit of stack expressed in inches to the nearest inch. For stacks of rectangular cross-section specify inside length and width in inches to the nearest inch (e.g., 40 x 20). |
| 30. | Exit Temperature        | Stack gas exit temperature (°F).   |
| 31. | Exit Velocity           | Stack gas exit velocity (ft./sec.).  |
| 32. | Exit Flow Rate          | Stack gas exit flow water in cubic feet per minute at actual conditions.   |
| 33. | Heat Input              | Specify in million Btu/hr. the total anticipated maximum operating heat input of the stationary combustion installation (all units connected to same stack).   |

SECTION C (Items 34-54)

Answer all questions on form B2 only if a single furnace (unit is vented to the emission point (stack)). If more than one combustion unit vents to this emission point, leave questions in this Section blank and complete additional form Y for each unit (furnace). A standby or emergency furnace (unit) is considered a separate unit. However, a dual fuel burner may be indicated by completing this form as if it were a second burner.

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|-----|--------------------------|---|
| 34. | Permit to Construct      | If applying for a Permit to Construct, check whether new source, modifications or existing source Leave blank if applying for a Certificate to Operate.   |
| 35. | Certificate to Operate   | If applying for a Certificate to Operate, check whether new source, modification or existing source. leave blank if applying for a Permit to Construct..  |
| 36. | Unit Manufacturer's Name | Specify the name of the manufacturer of the unit and the Manufacturer's model number.   |
| 37. | Unit Heat Input          | Specify the actual maximum operating heat input in million Btu/hr. for existing units or the anticipated maximum operating heat input for new unit. If a stack test acceptable to the Department was performed on the unit, specify the heat input during the test. |

38. Air Intake
- Use the code below to describe the type of air intake:
- 1 - Outside air in-take
  - 2 - Unit ventilator with outside air in-take
  - 3 - System consisting of an outside air in-take, with air ducts and a fan
  - 4 - System consisting of an outside air in-take, with ducts, fan and means of heating in-take air
  - 5 - Other
  - 6 - None
39. Burner Type
- Enter the code to specify the type of burner used:
- Oil
- 51 - Pressure atomized burners
  - 52 - Steam atomized burners
  - 53 - Air atomized burners
  - 54 - Other, specify
- Natural Gas
- 60 - Atmospheric gas burner
  - 61 - Natural draft power gas burner
  - 62 - Forced draft power gas burner
  - 69 - Other, specify
40. Burner Manufacturer's Name
- Name of the manufacturer of the burner and the manufacturer's model number.
41. Fuel Type\*
- Enter the code for the type of fuel burned or to be burned: \* **#4 and #6 fuel oil are prohibited**
- 32 - No. 2 fuel oil
  - 99 - Other, specify
42. Average Quantity of Fuel/Hr.
- Average quantity of fuel burned/hr. by this burner during normal operation; gals./hr. for oil; or cubic feet/hr for gas. Compute average by dividing quantity/year (question 44) by hrs./day (question 45) times days/year (question 46).
43. Maximum Quantity of Fuel/Hr.
- Specify maximum quantity of fuel burned/hr. by this burner from prior years' records, or enter manufacturers' specified maximum quantity of fuel burned/hr. in gals./hr. for oil; or cubic ft./hr. for gas.
44. Quantity of Fuel/Yr.
- Total quantity of fuel burned/yr. for this burner only gals./yr for oil, cubic ft./yr. for gas.
45. Hrs./Day
- Average number of hrs./day burner is or will be in operation.
46. Days/Year
- Average number of day/yr. burner is or will be in operation.

47-54. If more than one burner or dual fuel burner is used, complete these questions. See instructions for questions 39-46.

SECTION D (Items 55-57)

Complete Section D only if a single process or unit is vented to the emission point (stack) or if the emission from all units vented to this emission point are directed to the same emission control equipment. Complete additional Form B2 for each process (unit) and leave this SECTION blank if emissions from each process (unit) are directed to separate emission control equipment.

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|-----|--------------------------------------|---|
| 55. | Control Type                         | Specify the type of emission control equipment used.  |
| 56. | Manufacturer's Name and Model Number | Specify name of manufacturer and model number of the control equipment specified in previous question.  |
| 57. | Disposal Method                      | Enter the code that describes the type of disposal used for collected air contaminants.<br><br>1 - Landfill - on-site<br>2 - Landfill - off-site<br>4 - Recycled on-site<br>6 - Sold<br>9 - Other |

SECTION E

58. Provide a brief description of the project (process/ work being performed)

SECTION F

**Attach separate sheet(s) with detailed calculations used to determine contaminant emissions. Calculations must bear original signature and seal of P.E.**

If more than one furnace or unit vents to the emission point specified in Section B, complete the appropriate number of unit form Y (one for each process or unit,) before completing this section. This section is used to summarize the total air contaminants emitted through the emission point specified in Section B.

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|-----|---------------------------------|---|
| 59. | Contaminant Name and CAS Number | Complete for all contaminants (Total Particulates, Sulfur Dioxide, Nitrogen Oxides, Carbon Monoxide, etc.). Entries should represent the total of the contaminant emitted from the stack by this combustion installation process. |
| 61. | % Control Efficiency            | Complete for all contaminants listed. Enter actual efficiency of emission control equipment specified in Section F.   |
| 62. | Actual Hourly Emissions         | Complete for all contaminants listed. Enter the actual hourly emissions in lbs./hr. based On  |

normal daily operation of the combustion installation.

63. Actual Annual Emissions

Complete for all contaminants listed. Enter the actual annual emission in lbs./yr. based on normal daily operation of the process.

SECTION G

64. Signature and Seal of Professional Engineer

Signature and seal of Professional Engineer must be affixed when applying for Certificate to Operate, or the application will not be processed. Leave blank when applying for a Permit to Construct. Enter date at time of signature.

65. Signature of Owner

Signature of owner and date.