

**ENVIRONMENTAL PROTECTION DEPARTMENT**  
 MINISTRY OF ENVIRONMENT AND NATIONAL BEAUTIFICATION  
 L. V. HARCOURT LEWIS BUILDING  
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Application No:  
 .....

**Overall Design Exhaust Air Flow Rate & Resistance**

1. Design Exhaust Flow Rate of System: .....CFM	2. Expected total system pressure loss: .....(in.w.g.) (sum lines 6b, 15, 22, 27 & 31 and enter here)
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**Hood Information**

3. Hood Classification: <input type="checkbox"/> Type 1 <input type="checkbox"/> Type 11	4. Is Hood URL Listed <input type="checkbox"/> Yes <input type="checkbox"/> No Hood length ..... CFM/ft Flow rate without make-up air .....	5. Hood Style: <input type="checkbox"/> Wall-mounted Canopy <input type="checkbox"/> Single Island Canopy <input type="checkbox"/> Double Island Canopy <input type="checkbox"/> Back-shelf <input type="checkbox"/> Passover <input type="checkbox"/> Other .....
6. What is the hood loss (K) factor (Man. Data)? .....		6b. What is the value of pressure loss due to the hood? ..... in.w.g
7. Is make-up air supplied directly to the hood cavity? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, at what rate is this make-up air supplied? ..... CFM		

**Grease Filters & Extractor (Type 1 hoods)**

8. Type of filter: .....	12. Type of cooking surface(s): [Tick all that applies] <input type="checkbox"/> Exposed flame <input type="checkbox"/> Without exposed flame <input type="checkbox"/> Exposed charcoal & charbroil type
9. Nominal area of filter: .....sq.in	13. Minimum height of filters above surface ..... ft.
10. Flow rate through filters: .....cfm	14. Filter installation angle ..... Degrees
11. Number of filters: .....	15. Friction loss in filters: ..... in.w.g

## Exhaust Ducting Information

16. Duct velocity: ..... fpm	17. Duct area: ..... sq.ft
18. Duct diameter: ..... ft	19. Duct velocity pressure: ..... in.w.g.
20. Total length of straight duct: ..... ft	21. Duct friction factor: .....
22. Friction loss in ducts: ..... in.w.g	<b>Reminder:</b> Submit relevant specification sheets and performance curves/tables for exhaust fan.
24. r/d ratio of elbow: .....	
25. Number of elbows: .....	
23. Type of elbows: <input type="checkbox"/> Smooth <input type="checkbox"/> Mitre <input type="checkbox"/> 3-piece <input type="checkbox"/> 4-piece <input type="checkbox"/> 5-piece	
26. Elbow loss factor, k: .....	27. Static pressure loss in elbows: ..... in.w.g.
28. Diameter of elbows: .....	29. Length of duct between fan and elbow: ..... ft
30. System effect factor: .....	31. System affect loss: ..... in.w.g
32. State the KDL of the fan i.e. whether direct drive (1.05) <input type="checkbox"/> or pulley drive (1.15) <input type="checkbox"/>	
33. Fan efficiency: ..... %	34. Fan horse power: ..... hp

**Reminder:**

- Sum lines 6b, 15, 22, 27, 31 and enter at lines 2
- For further information, please visit our website at [www.epd.gov.bb](http://www.epd.gov.bb)

I hereby certify that the information provided on this application is accurate to the best of my knowledge.

.....  
Signature of Applicant/ Agent

.....  
Date