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| --- | --- | --- |
|  | Size | Exhaust CFM |
| Kitchen Exhaust Hood | 11.5 linear ft. | 3,450 |
| Dishwasher Exhaust Hood | 3 linear ft. | 600 |
| Men’s/Woman’s Bathroom | 10 ft. x 12 ft./11ft. x 12 ft. | 250/250 |
| Totals |  | 4,550 |

If you were provided with the table above and did not have a code book available how would you determine the amount of airflow required if a piece of cooking equipment was removed and the kitchen exhaust hood size was changed to 10 linear feet?

If you were provided with this table and did not have a code book available how would you determine the amount of airflow required if the dishwasher hood size was changed to 4 linear feet?

If the two previous were made and the bathroom exhaust remained at 500 CFM, what would the new total exhaust be?

If an exhaust hood that was 11.5 linear feet long had the requirement of 550 CFM per linear foot due to extra heavy usage from because it covered a mesquite wood charbroiler, what would the exhaust fan total in CFM need to be?

Field Notes:

A brand new kitchen hood and exhaust duct system installed in a Chinese restaurant was not removing enough air resulting in smoke from the fryers and grilles getting into the cooking space.

Pulley and belts were changed to increase the airflow: still not enough airflow out through the exhaust hood.

A Technician finally checked the exhaust fan motor for direction, and found out it was running backwards.

The wiring was done by an electrician who did not know that a fan turning in the wrong direction moves less air.

The motor wiring was changed so the direction was reversed, and the problem was solved.