

Features

ULTRAVIOLET

Ultraviolet technology is a non chemical approach to disinfection and cleaning. Through this method nothing is added which makes the process simple and inexpensive. Ultraviolet purifiers use a UV-C germicidal lamp designed and calculated to produce the correct dosage of ultraviolet (usually 16000 microwatts per centimeter squared).

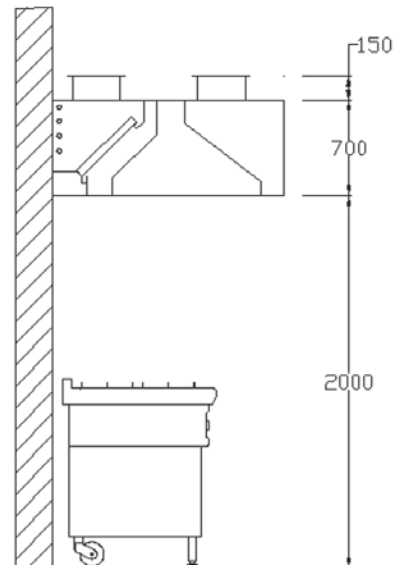
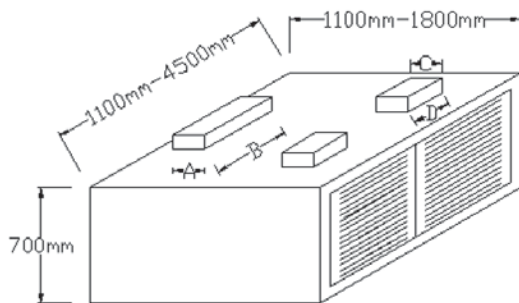
Ultraviolet irradiation is an effective method of killing a broad range of microbes. In essence the UV radiation breaks down the molecular binds in an organisms DNA.

UV disinfects and cleans through a photochemical process. The contaminants that pollute the air are almost entirely organic or carbon based compounds. These compounds break down when exposed to high intensity UV. Short wave ultraviolet light destroys DNA in living organisms and breaks down organic material found in the air.

In addition UV also produces ozone, which is a highly reactive form of oxygen, and is usefull as a deodoriser and cleaning agent. Because it is necessary to avoid exposing personnel to high concentrations of ozone, the use of ozone must be limited to 0.05 parts per million in occupied spaces.



Drawings



Specifications

| LENGTH | FIRE DAMPER A X B | SUPPLY AIR C X D | AIR VOLUME m ³ /s | LENGTH | FIRE DAMPER A X B | SUPPLY AIR C X D | AIR VOLUME m ³ /s |
|-----------|----------------------|---------------------|---------------------------------|-----------|----------------------|---------------------|---------------------------------|
| 1000-1200 | 250 X 300 | 250 X 250 | 0.66 - 0.72 | 2500-2700 | 250 X 800 | 250 X 500 | 1.50 - 1.62 |
| 1300-1500 | 250 X 400 | 250 X 300 | 0.78 - 0.90 | 2800-3000 | 250 X 900 | 250 X 550 | 1.68 - 1.80 |
| 1600-1800 | 250 X 500 | 250 X 350 | 0.96 - 1.08 | 3100-3300 | 250 X 1000 | 250 X 600 | 1.86 - 1.98 |
| 1900-2100 | 250 X 600 | 250 X 400 | 1.14 - 1.26 | 3400-3600 | 250 X 1100 | 250 X 650 | 2.04 - 2.16 |
| 2200-2400 | 250 X 700 | 250 X 450 | 1.32 - 1.44 | 3700-3900 | 250 X 1200 | 250 X 700 | 2.22 - 2.34 |