

UV Technical Specification



LeighTec

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1. LEIGHTEC UV CANOPY

1.1 GENERAL

In order to remove the grease and odours produced by various cooking processes Ultraviolet (UV) Light can be used to break up the molecular bonds of Carbon, Hydrogen and Oxygen. The end products of this process are Carbon Dioxide and Water. The advantages of our UV system are:

1. Reduces grease from proceeding extract ductwork.
2. Helps to eliminate cooking odours
3. Moderates frequency of ductwork cleaning
4. Reduces risk of fire.



Leigh Tec ventilation canopies are completely manufactured using 1.2mm thick 304 grade stainless steel (in accordance with HVCA DW172) giving a longer life and better fire integrity. All exposed panels are constructed of stainless-steel sheet meeting 304 specifications in a brushed satin polished finish. All joints are welded or bolted. Our canopies feature a full – perimeter condensing channel with over-folded and crushed edges for safety when cleaning. LTS extract and supply type canopies are supplied with grease baffle filters, grease collection draws to every section, supply and extract air spigot connections factory fitted, all supply plenums are insulated with fire-retardant low-density foam.

1.2 UV EXTRACT PLENUM

The UV extract plenum has safety features to prevent exposure to UV light, these include an integral baffle plate to ensure even with filters removed there is no direct line of sight of the UV lamps, if any filters are removed it will automatically cut the power to the UV lamps by disengaging the micro switches in the grease channel, this system is also incorporated within the service doors again preventing UV light exposure. The extract plenum also includes a hinged access door for ease of maintenance and replacement of UV lamps. The UV lamps are mounted on a cassette racks and are easily removable by disconnecting the electrical connectors on the cassette fronts. The plenum roof panels are also constructed using 304 grade stainless steel and have two compartment levels.

1.3 CONTROL SYSTEM

The following is a brief list of control features:

1. Text display of all conditions written in plainEnglish
2. Monitoring of extract air to allow UV to run or stop
3. Fully interlocked system preventing UV exposure
4. Lamp failure recognition
5. Fully CE certified system
6. Total hours run meter
7. BMS connection
8. PLC controlled system

