

Basic Concept Flexible **Piping GREEN DUCT** Unit **ESP** or Ecology **Extract Fan** Location: Unit Technical room (e.g. HVAC room) 30x30cm or kitchen Access Panels Misting nozzles strategically KIN positioned to treat areas of MEET grease accumulations. No hood or duct drainage points required. No impact on air balancing. Misting Nozzles Kitchen Extract Hood

Product Range

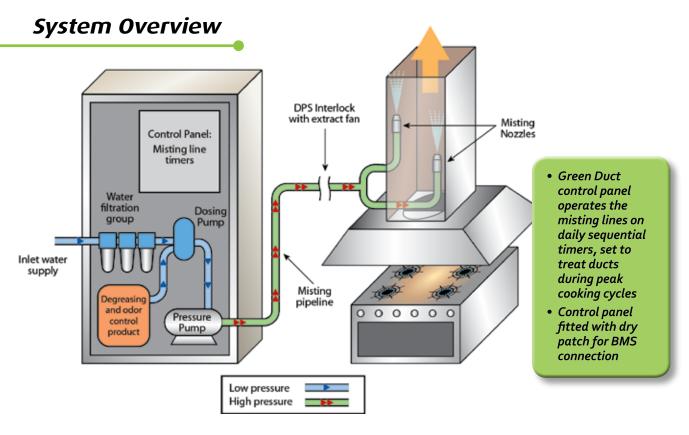
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Green Duct systems are available in 3 options: single circuit, dual circuit and multi-circuit. Dual and multi-circuits Green Duct systems were designed to treat multiple kitchen extract ducts using only one machine. From a value engineering stand point, dual and multi-circuit Green Duct systems are a highly cost effective option for commercial properties requiring kitchen extract duct degreasing and odor control for several F&B operations, such as in hotels, hospitals and malls.



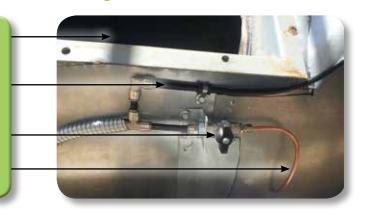




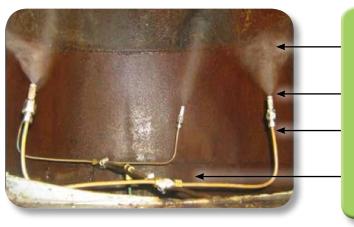


External Duct Piping and Ball Valves

- Standard fire rated kitchen extract duct access panels will be used to install and maintain green duct misting nozzles
- 9.5mm polyamide pipe connects the installation to the Green Duct cabinet
- High pressure ball valves allow for independent nozzle control and maintenance.
- 6mm fire rated copper piping is placed inside the duct, connected to the misting nozzles



Internal Duct Piping and Nozzles



- The droplets size 10–25µm (microns) ensures there is no water condensation and no duct corrosion
- Nozzles of variable flow rates can be selected according to extract airflow rates, duct dimensions and grease content
- Flexible copper piping allows mist to be directed virtually anywhere
- Nozzle configuration can be adjusted to the parameters of the duct (e.g. ring or cross configuration at the base of risers)



Green Duct Unit

Dosatron:

Product dosing system

Water filtration group:

- Sediment filter (5 microns)
- Carbon filter (20 microns)
- Anti-calcium crystals

Product Tank:

 25 or 50 Liter tanks for concentrated biological degreasing agent



Control Panel - main components:

- Master Controller Switch
- PLC Controller (for programmable operation cycles & timers)
- VFD Controller (for independent line pressure management)
- Misting Line Selector Switches (for manual / auto control)
- Auto-Clean Selector
 Switch
 (for manual / auto control)

Motor pump group:

- Single phase 220V / 50Hz
- 70 bar

GREEN DUCT - Kitchen Extract Duct Degreasing & Odor Control System

Key Benefits:

- Green Duct installation keeps kitchen extract ducts grease-free 365 days a year:
- Eliminates the source of combustible fuel inside the ducts.
- Reduces extract duct cooking and stagnant grease odors.
- Green Duct compliance & standards:
- Complies with Dubai Civil Defense requirements for duct cleaning eliminates the need for manual cleaning.
- Complies with DW172 & NFPA96 Kitchen Extract Duct installation standards.
- Green Duct is a more cost efficient alternative to UV & Misting Hoods:
- Green Duct permanently eliminates all grease in ducts. UV & Misting Hoods don't.
- Green Duct is easy to install, requires no modification to hoods or extract fans:
- Can be pre-fit or retro-fit on existing projects, requires NO duct drainage points and has NO impact on air balancing.
- Works well in conjunction with Ecology & ESP Units to further reduce smoke and smell.
- MEET degreasing products is 100% biodegradable and environmental:
- NO chemicals, NO hazardous products, NO UV radiation and NO Ozone





Manufactured in Italy to the highest EU standards







Manufactured exclusively for MEET, by IDROTECH SRL Italy (ISO 9001:2008) in accordance with CE directives:

- 2004/108 CE Directive (EMC Directive) and subsequent amendments
- 2006/95 CE Directive (Low Voltage Directive) and subsequent amendments
- 2006/42 CE Directive (Machinery)







Certifications





Green Duct unit range and specifications

CODE	DESCRIPTION	TOTAL NO. NOZZLES	MANAGEABLE NO. LINES	PUMP FLOW RATE (L/MIN)	OPERATING PRESSURE (BAR)	POWER (SINGLE PHASE)	CABINET SIZES (MM)
ICO-70S	Single Circuit System (for one kitchen duct)	< 22*	1	1	56-70	220V-50Hz, 1.1kW	1600 x 800 x 500
ICO70M2- VAR	Two Circuit System (for two kitchen ducts)	30-82*	2	3.8	56-70	220V-50Hz, 1.5kW	1800 X 1000 X 500
ICO70M4- VAR	Four Circuit System (for four kitchen ducts)	40-120*	4	5.6	56-70	220V-50Hz, 2.2kW	1800 X 1000 X 500

^{*}nozzles with flow rate 0,046 L/m at 70 bar



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