Defender Kitchen Hood Fire Extinguishing System
Kitchen Duct, Hood and Appliance Fire Extinguishing Systems

► The duct, hood and appliance have high fire risk with heat, oil and air in kitchen

► The cook or appliance faults cause high fire risk

► The dirty hood and duct causes high fire risk

► The duct, Hood and Appliance fires spread rapidly in the building through ducts

► The duct, hood and appliance fires are difficult to extinguish with 360C heat from oil
Kitchen Duct, Hood and Appliance Fire Extinguishing Systems

► Most of local regulations stipulate kitchen duct hood and appliance extinguishing systems before opening building

► Most of consultants and advisors stipulate kitchen duct hood and appliance extinguishing systems during Project base

► There is huge demand for preferred and competitive kitchen duct hood and appliance fire extinguishing system World wide

► Defender is preferred and competitive for installer and end users as kitchen duct hood and appliance fire extinguishing system
Defender is Preferred

► Defender is manufactured and supported by Finder company.
  ► 24 years experience
  ► 7/24 sales and technical support
  ► Fast Delivery
  ► Technical Training
  ► Trained and Authorized Installers
  ► Exclusive Dealers
  ► Regular Installation Inspection
  ► Regular Customer Satisfaction Control
  ► Marketing Support
    ► Brand Awareness
    ► Direct Mailing
    ► E marketing
    ► Exhibition participation
    ► Marketing Documents
Defender is preferred

► Defender is easy to install, use and maintain.
► Defender M mechanical system is suitable for difficult applications
► Defender P pressurized system is suitable for fast detection and less cost applications
► Defender meets customer different sized applications requirements
  - 4 nozzle systems
  - 8 nozzle systems
  - 12 nozzle systems
  - 16 nozzle systems
  - 18 nozzle systems
Defender is Preferable

► Defender performance is tested and approved by LPCB
Defender is Competitive

► Defender nozzles coverage are wider than the others. The less pipe Works, labor cost and cylinder capacity are needed.

► Defender cylinders are pressurized. The maintenance and charging are cost effective.

► Defender control head operates both manual and automatic. Additional manual release is not necessary.

► Defender P series with pressurized piping system is designed to meet customer cost expectations.
Defender M and P Type System Design and Quotation

- System Layout
- System Components
- System Detection Line Design and Quantities
- System Nozzle Design and Quantities
- System Cylinder Capacities
Defender M Type System Design and Quotation

► System Cylinder Capacities
  1455 DM08 8 Flow point 9,5L cylinder and activation mechanism
  1555 DM12 12 Flow point 15L cylinder and activation mechanism
  1655 DM18 18 Flow point 22,7L cylinder and activation mechanism
  P2000 Manual activation unit

► System Detection Line Design and Quantities
  P2750 141C Thermobulb thermal link
  P2850 181C Thermobulb thermal link
  P2950 260C Thermobulb thermal link
  P9000 corner pulley

► Nozzle Design and Quantities
  P1700 A nozzle
  P1800 F nozzle
  P1900 R nozzle
Defender P Type System Layout

<table>
<thead>
<tr>
<th>ITEM</th>
<th>COMPONENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Cylinder and valve</td>
</tr>
<tr>
<td>2</td>
<td>Activation button</td>
</tr>
<tr>
<td>3</td>
<td>Nozzles</td>
</tr>
<tr>
<td>4</td>
<td>Detection (thermoplastic tube) line</td>
</tr>
<tr>
<td>5</td>
<td>3/8” AISI304 Discharge line</td>
</tr>
</tbody>
</table>

| DP4  | 4 Flow capacity extinguishing system |
| DP8  | 8 Flow capacity extinguishing system |
| DP16 | 16 Flow capacity extinguishing system |
Defender P Type System Installation Manual
Defender M Type System Installation Manual

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