Kidde ECS™ Advanced Delivery
Fire Suppression System
Component Description

Fan Nozzles 180° and 360°

GENERAL FEATURES
- “Fan” Pattern Allows for a Faster Rate of Vaporization
- Unique Nozzle Interior Design Allows for Superior Flow Control
- Stainless Steel
- Custom Drilled to Fit Specific Applications
- UL Listed, File Number 4674
- FM Approved
- RoHS Compliant
- Patented Kidde Technology

DESCRIPTION
The Kidde ECS Advanced Delivery Fire Suppression System 180° and 360° Fan Nozzles are built with a flat discharge pattern, or a “fan” pattern, which allows for a faster rate of vaporization. The large area of coverage that is created by the nozzle’s “fan” action, allows the agent to discharge closer to the nozzle and vaporize quickly to create the proper mixture between the agent and the nitrogen.

The nozzles are designed with unique interior profile to provide a smooth transitional direction change for the agent upon discharge. This type of design allows the agent to keep much of its momentum as it leaves the nozzle—momentum is necessary to provide agent distribution at greater distance. The nozzles are custom drilled for each application, allowing the nozzles to be effective in large or small spaces.

Another design feature that these nozzles offer is a downward discharge angle from the nozzle which controls the interaction of the vaporizing discharged liquid with ceiling surfaces, which is to be avoided.

When mounted, the nozzles offer a recess option with a minimum placement of 1/2 inch from the ceiling. The nozzles have a sleek, discrete profile, for an aesthetically pleasing look.

MAINTENANCE
- Ensure that there are no obstructions to hinder distribution of the agent.
- Visually inspect nozzles for physical damage or clogging. Replace or clean if required. If nozzles are replaced, new nozzles used must be the same part number in the same location.

SPECIFICATIONS

MATERIALS
Body: Stainless Steel

Approx. Weight 360° Nozzle:
- 1/2-in. and 3/4-in.: 1.3 lb. (0.59 kg)
- 1-in. through 2in.: 4.5 lb. (2.00 kg)

Approx. Weight 180° Nozzle:
- 1/2-in. and 3/4-in.: 1.3 lb. (0.59 kg)
- 1-in. through 2-in.: 5.0 lb. (2.30 kg)

Note: Please refer to the corresponding DIOM for associated nozzle part numbers and orifice areas.

ORDERING INFORMATION
Refer to the corresponding Kidde ECS Advanced Delivery DIOM for part number information.

COMPATIBILITY

<table>
<thead>
<tr>
<th>Series</th>
<th>For Use With</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kidde ECS™ Advanced Delivery with FM-200® Agent</td>
<td>X</td>
</tr>
<tr>
<td>Kidde ECS™ Advanced Delivery with 3M™ Novec™ 1230 Fire Protection Fluid</td>
<td>X</td>
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</tbody>
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KIDDE ECS ADVANCED DELIVERY WITH FM-200 SPECIFICATIONS

- Max. Single Row Ceiling Height: 16 feet.
- Minimum Approved Height: 1 foot
- Max. Distance from Ceiling: 12 inches
- Max. Distance from wall for 180° Nozzle: 2 inches

For more information, see DIOM P/N: 06-236068-001.

KIDDE ECS ADVANCED DELIVERY WITH 3M NOVEC 1230 SPECIFICATIONS

- Max. Single Row Ceiling Height: 18.5 feet.
- Minimum Approved Height: 1 foot
- Max. Distance from Ceiling:
  - 360° Nozzle: 15 inches
  - 180° Nozzle: 12 inches
- Max. Distance from wall for 180° Nozzle:
  - For heights of one foot: 15 inches
  - For heights greater than one foot: 10 inches

For more information, see DIOM P/N: 06-237256-001.

DIMENSIONS

<table>
<thead>
<tr>
<th>Nominal Size</th>
<th>180° Nozzle</th>
<th>360° Nozzle</th>
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<tbody>
<tr>
<td></td>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td>in.</td>
<td>mm</td>
<td>in.</td>
</tr>
<tr>
<td>1/2”</td>
<td>1.47</td>
<td>37</td>
</tr>
<tr>
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<tr>
<td>1”</td>
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<td>50</td>
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<td>1 1/4”</td>
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</tr>
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<td>1 1/2”</td>
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<td>54</td>
</tr>
<tr>
<td>2”</td>
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<td>58</td>
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EXPORT INFORMATION (USA)

Jurisdiction: EAR
Classification: EAR99
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