Installing an ecological system also has several other advantages:

- The filtered air from the system can be vented to the outside of the building at ground level, generating substantial savings by eliminating the use of a fully welded duct all the way to roof level.
- A fully welded duct between the hood and the filtration section in accordance with NFPA96 and a standard duct as per the National Building Code of Canada between the fan section and the outside of the building.
- 99% of all grease and smoke from the kitchen hood is extracted by the ecological device.
- Fire risk is greatly reduced.
- Acceptable reduction of cooking odours emanating from the hood.
- The entire unit can be installed in the kitchen ceiling, a service room or on the roof.
- Can be installed in a multi-restaurant project such as a food court.
- Can be installed in a heritage building or a building with a specific architecture.
- UL listed
- The exterior finish of the unit is stainless steel.
**Optional fire protection system section**

The fire protection system section is one of the options available for the ecological device. According to NFPA 96 standards, a fire protection system must be installed on an ecological system. There are two possibilities: the installation of an **FAST** fire protection system or the installation of a fire protection system on the job site by a certified company. The fire protection system shall be supplied with a dual micro-switch to connect to the building fire alarm system.
**Filtration section**

The **FAST ECO** filtration section has a stainless steel casing and steel double inner walls insulated with 1” (25 mm) of ceramic wool. Both walls are 16 g thick. Access doors are double-walled, insulated, and hinged. The greasy air from the kitchen hood and its exhaust duct enter the filtration unit to be filtered and degreased.

The filtration section consists of a series of three filter sections, two sections of UL listed fire dampers and pressure switches to check the condition of the filters in the section.

**The three filtration sections are:**

- Pleated prefilters 4” (102 mm) thick, 30% ASHRAE 52-76.
- Pocket filters 18” (455 mm) thick, 90% ASHRAE 52-76.
- Absolute filters 12” (300 mm) thick, 99.97% HEPA D.O.P.

1- UL* Class I or II

**Optional odour control section**

The optional odour control section is installed downstream from the filtration section and consists in injecting liquid **FAST Neutral-Air** in the exhaust flow to neutralize odour causing bacteria. The injection cycle may be permanent or intermittent during kitchen hood and cooking appliance operation. The device is UL* certified with or without the odour control section.

**Exhaust blower section**

The outer casing of the **FAST AH** exhaust blower section is stainless steel. It has a perforated galvanized steel double inner wall insulated with 1.5” of acoustic panels. Both walls are 16 g. Access doors are double-walled, insulated and hinged.

**The exhaust blower section includes, but is not limited to:**

- One double-width, double inlet fan
- One wheel statically and dynamically balanced with back-tilted blades
- Antivibration isolators under the blower and motor
- A prewired magnetic starter to the motor
- A disconnect switch
### Anti-Pollution Ecological System

#### Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>CFM</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>Weight</th>
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<td>13/16</td>
<td>14</td>
<td>7/16</td>
<td>9</td>
<td>3/16</td>
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THE DIMENSIONS LISTED ON TOP ARE IN INCHES AND AT THE BOTTOM ARE IN MM (LIGHT GRAY).