SPECIFICATIONS
500 SERIES DRY LINT FILTER

System 500 models are available with either **fiberglass** or **stainless steel** body assemblies. **Clean Cycle** offers seven sizes manufactured in either fiberglass or stainless steel. System 500 sizes with CFM ratings ranging from 6,000 to 30,000.

DESCRIPTION

System 500 models represent a design concept requiring minimum space to install while providing large area filtration screens. All models are tall, slimline, and compact; often referred to as "inline" or inside models. **System 500** models are all-weather construction and may be mounted outside.

Large area cylindrical-shaped, hi-temp PECAP or stainless steel filtration screen stretches over a welded steel cage, designed to recover 97% of lint discharged. Screens and blowdown mechanism can be maintained, replaced, or repaired through a large, easily accessible inspection door without special tools or major disassembly.

Balanced blowdown mechanism rotates on top and bottom rotors. Exhaust air entry is designed to create a vortex air current spiraling lint downward to insure clean screens! Automatic pre-set timer control and solenoid valve provides periodic release of compressed air to blowdown rotor and air jets. Rotating air jets strip lint blanket from screen allowing it to fall by gravity.

MAJOR ASSEMBLY SPECIFICATIONS

Body Fiberglass: Body to have a smooth gel coat on inside and rolled finish outside. FRX fire retardant laminating resin meets ASTME-84 Class I rating.

Stainless Steel: Made of 16 gauge, type 304, composed of three parts, top outlet, main body and lower cone connected together with tension rings.

Exhaust Intake is molded (or welded) to the main filter body. Rectangular shape provides 1-1/2" flanges on all sides to facilitate any connecting ductwork. Exhaust Intake can be located either on left or right side as required.

Particle Deflector is located within intake area and is designed to extend and protect filter screen. Deflector is hinged to move for easy screen cleaning and maintenance. Molded body provides a flange for attachment of lint bag or pipe on bottom and exhaust-discharge assembly on top.

Exhaust-Discharge Standard is round vertical flange for round pipe attachment. Side (or horizontal) exhaust discharge design is also available at extra cost.

LINT SCREEN AND MECHANICAL SYSTEMS

FILTRATION SCREEN ASSEMBLY (BASKET)

Made from welded steel shapes to form a cylindrical basket, coated with hi-temp metallic primer and paint. One removable vertical Entry Rod is provided for easy access to basket interior. Basket assembly is designed for pressure up to 5" W.C..

AIR BLOWDOWN ASSEMBLY

Rotor Pipes form a frame joining top and bottom rotor assemblies. Pipes are made from 3/4" hard aluminum pipes. Blowdown jet air holes 1/16" diameter are drilled in all pipes 1-1/2" O.C.

Rotation Air Holes are also drilled at top and bottom "L" joints. Provisions are made to adjust rotation speed of blowdown assembly. For maintenance, full rotor assembly may be entered and be assembled through inspection door.

Filtration Screen is available in hi-temp - PECAP fabric or from wrap around stainless steel wire mesh. Standard is 80 mesh or approximately 210 micron.

Inspection - Access Door 14" x 34" inspection access door is located on side of exhaust entry, which allows easy step-in entry for maintenance. Inspection access door is formed from 16 gauge 304 stainless steel sheet with continuous stainless steel hinge on one side and secured with two adjustable toggle clamps on opposite side.

ELECTRICAL/ AIR/ WATER SYSTEMS

LINT BLOWDOWN SYSTEM (120-VAC)

Mechanical system is actuated by compressed air, which is controlled by adjustable electronic timer(s) and solenoid valve(s). Two types of solid state electronic timers are designed for specific dryer(s) or installations: Type l for one dryer & Type ll for multiple dryers (two or more).

EMERGENCY FIRE SUPPRESSION SYSTEM (Optional)

Internally mounted overheat sensor energizes audio and visual alarm as well as opening a ¾" solenoid valve connected with two ½" water sprinklers mounted on sides of filter body.

OVERPRESSURE ALARM (Optional)

Overpressure in exhaust system is monitored by a differential switch, which activated an alarm and indicator lamp when pressure exceeds desired maximum setting on control.