Series 2900

Installation and Service Manual

Read ALL INSTRUCTIONS carefully.
The Dust Free® Series 2900 is a fully self-contained air filtration unit designed to operate in industrial environments. It is constructed of 16 gauge steel with a powder coat finish. The unit has filter and motor access panels for easy servicing. A dual-stage air filtration process is used to maximize efficiency, and incorporates a disposable or washable pre-filter and a V-bag main filter. Each unit is equipped with a 1.5 HP, 230/460 volt, 3-phase motor with a 3 HP motor available as an option. The Series 2900 employs 4-way adjustable air flow louvers and can accommodate an outlet plenum or duct. The unit is suspended using chain or cable.
Series 2900 Specifications

Dimensions: 72"L x 38"W x 26"H
(182.8 x 96.5 x 66 cm)

Weight: 275 lbs. (124.7 kg) Installed
325 lbs. (147.4 kg) Shipping

Motor: 1.5 HP, 230/460v, 3 PH. Optional 3 HP, 208/230v, 3 PH.

Optional: Variable speed controller, Magnahelic Gauge, and Change Filter Indicator.

Air Volume: 3600 CFM (101.9 CMM)

Filtration Efficiency: 30% ASHRAE to 99.97% DOP HEPA depending on filter configuration.

Foreign objects should be kept clear of the unit's blower.
Disconnect electrical power before performing maintenance on the motor.
HANGING
The unit requires a minimum of four (4) points of support. The mounts should be positioned at each of the four corners. Be sure to leave sufficient room to access and maintain the motors and filters. Use chain or cable of sufficient strength and hang the unit 15 feet or less above the floor.

To hang unit from the ceiling screw 3/8" eye bolts into the threaded inserts located at the top corners of the unit. Use cable or chain to suspend the unit.

Take note of the unit's weight and the maximum safe static load that the mounting location will support. The blower end of the unit will be heavier than the filter end.
FILTERS
Your Series 2900 comes equipped with disposable filters which must be replaced at regular intervals. They cannot be cleaned. The length of time between filter replacements is dependent on the amount contamination in the units environment. Generally, the pre-filter will last 1 to 3 months while the main filter will last 3 to 6 months. Replace the filters when there is a noticeable drop in air volume. The filters must be replaced with units of the same, size, type, and efficiency rating in order to maintain the performance of the unit. Incorrect filters can lead to premature motor failure and will void the manufacturer’s warranty. Check the distributor or manufacturer to determining the exact filter configuration for the specific installation. The filters are serviced by following these steps:

1. Open the filter access door.
2. Slide out the dirty filters.
3. Insert new filters.
4. Close filter access door.

Filter Change Diagram
### Part No. Description

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<th>Part No.</th>
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### Series 2900 Filter Layout

- **Pre-filter**
- **Main Filter**
- **Motor/Blower Assembly**