

IMPORTANT SAFETY INSTRUCTIONS READ AND SAVE THESE INSTRUCTIONS

<p>Proprietary Notice This manual pertains to proprietary devices manufactured by Terra Universal, Inc. Neither this document nor any portion of it may be reproduced in any way without prior written permission from Terra Universal.</p>	<p>Safety Notice A thorough familiarity with all operating guidelines is essential to safe operation of the product. Failure to observe safety precautions could result in poor performance, damage to the system or other property, or serious bodily injury or death. The following symbols are intended to call your attention to two levels of hazard involved in operation.</p>	
<p>Terra Universal makes no warranties applying to information contained in this manual or its suitability for any implied or inferred purpose. Terra Universal shall not be held liable for any errors this manual contains or for any damages that result from its use.</p>	 CAUTION	<p>Cautions are used when failure to observe instructions could result in significant damage to equipment.</p>
<p>The information presented here is subject to change without notice.</p>	 WARNING	<p>Warnings are used when failure to observe instructions or precautions could result in injury or death.</p>

1.0 Introduction

This manual provides information on installing and operating Terra Universal's Room-Side Replaceable (RSR) Ducted Filter Module. By studying this document carefully, you can be assured of a long, efficient service life from the unit.

2.0 Operation

Ducted Filter Modules feature either a HEPA or ULPA filter mounted within a white powder-coated steel housing and are designed to be connected to an existing air handler or other air source to provide filtered airflow. Air from the air handler is directed through the filter using a built-in diffuser and internal baffling system, which ensure uniform face velocity. The unit includes a 12"-diameter collar for attachment to the air source, which ultimately determines the flow rate.

3.0 Installation

These units are designed to fit on top of a Terra Laminar Flow Hood or within a standard 2' x 4' ceiling grid. In a Terra Universal ceiling grid, the unit rests on the edges of the ceiling bay; no fasteners are required. For existing ceiling grids, a special frame or fastening method may be required. The housing includes a threaded fixture at each corner to accommodate four eye-bolts (not provided) that can be used to assist in lifting and positioning the unit. After the unit is in position, connect the air handling system to the flange on top of the unit and adjust the airflow to achieve the required air cleanliness levels or air changes per hour.



WARNING:
To reduce the risk of fire, electric shock, or injury to persons, observe the following:

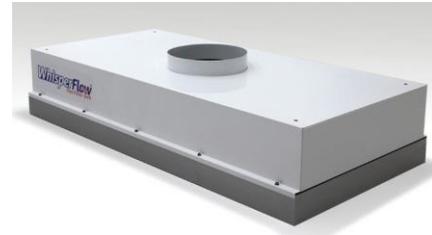
- Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer.
- Before servicing or cleaning unit, switch power off at service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.
- Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction.
- When cutting or drilling into a wall or ceiling, do not damage electrical wiring and other hidden utilities.

4.0 Cleaning and Maintenance



WARNING:
Disconnect from air handler before servicing unit. When servicing or replacing either filter, the new filter is to be installed in the same manner as the filter it replaces.

The scheduled maintenance of the unit depends on the installed location and consists of cleaning or changing the pre-filter and the HEPA filter. It is recommended that the pre-filter be inspected and cleaned every three months or sooner depending on the cleanliness of the external environment. The HEPA filter cannot be cleaned and must be replaced when the laminar flow rate falls below 70 feet/min.



5.0 Specifications

Size:	2' x 4'	2' x 3'	2' x 2'
Dimensions:	23.6" x 47.6" x 13"	23.6" x 35.6" x 13"	23.6" x 23.6" x 13"
Weight:	71 lbs.	53 lbs.	44 lbs.
Housing:	White powder coated cold-rolled steel or 304 stainless steel		
Flange:	12" dia. X 2"H		
HEPA Filter:	99.99% efficient on removal of particles 0.3 microns and larger. Resistance at rated flow: 0.45"WG		
ULPA Filter:	99.9995% efficient on removal of particles @ MPPS Resistance at rated flow: 0.65"WG		
Pre-Filter:	20" x 20" x 1" - 30% efficient ASHRAE rated		
Face Grille:	Anodized aluminum		
Support:	Threaded screw receptacles for insertion of optional eyebolts		

Specification Notes:

- All FFU data is based on a standalone unit using 1" prefilter and clean filters.
- Data will vary depending on filter media and configurations with other products/systems, such as ductwork or hoods.

6.0 Replacing the Filters

Changing the HEPA filter requires removal of the unit from the hood or ceiling grid. Place the unit on a flat work surface and remove the 10 sheet metal screws along the sides of the unit that hold the HEPA filter to the case. Replace the filter with a new one and secure it to the case with the same screws before placing it back into service.

7.0 Warranty

<https://www.terrauniversal.com/warranty>