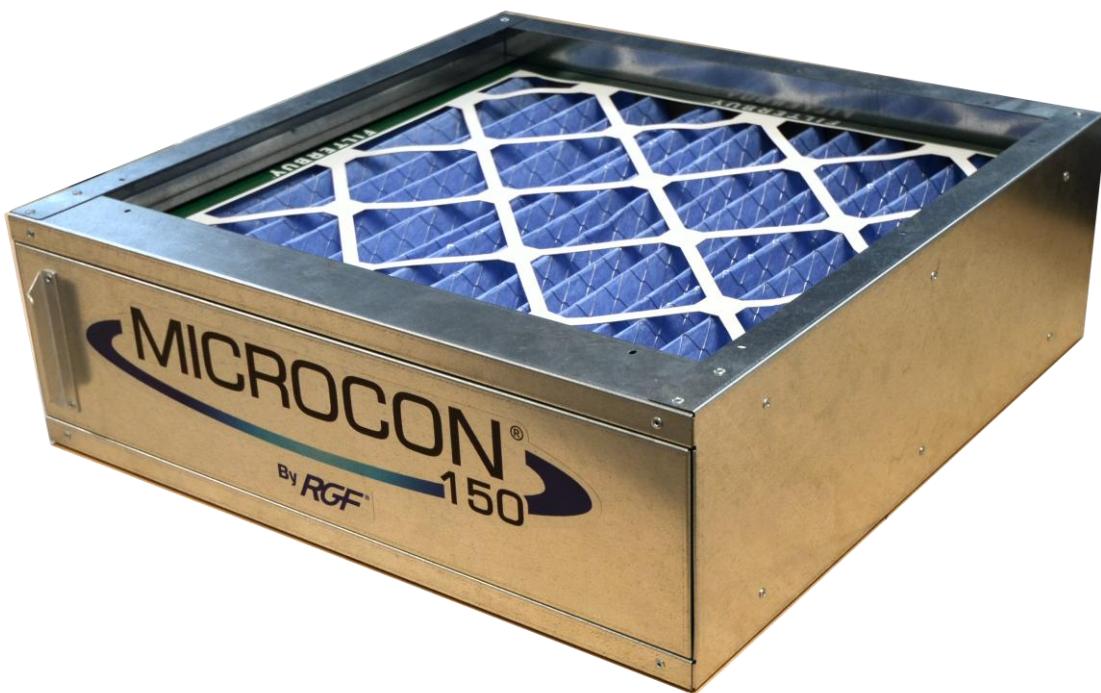




# **MICROCON® 150**

## **Whole Home Media Air Filter**

## **Installation Manual**





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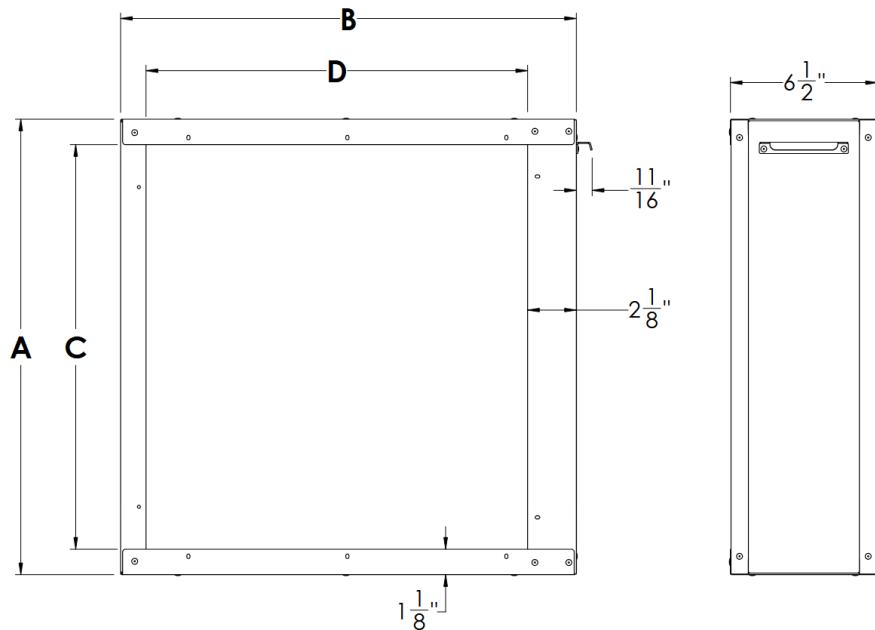
## 1. Introduction

MICROCON® 150 is a high-efficiency media air cleaner designed for use in residential and light commercial HVAC systems. Available with MERV 11 or MERV 13 filter, it captures more airborne particles and allergens than standard 1-inch filters, ensuring a cleaner, healthier living space.

## 2. Product Features

- Rugged 22-gauge galvanized steel construction with aluminum handle
- Compatible with high efficiency 4" MERV 11 & 13 pleated filters
- Front-access door with magnetic closure
- Horizontal or vertical mounting orientation
- Pre-drilled mounting holes for easy setup
- Airtight design with filter-sealing foam to minimize air bypass
- Designed to support air handlers up to 225 lbs

## 3. Specifications & Dimensions



MICROCON® 150 DIMENSIONS						
Model	Filter Size (inches)	MERV	A	B	C	D
MC-150-2020-11	20x20x4	11	20-1/8	20-1/8	17-7/8	16-7/8
MC-150-2020-13	20x20x4	13	20-1/8	20-1/8	17-7/8	16-7/8
MC-150-2025-11	20x25x4	11	20-1/8	25-1/8	17-7/8	21-7/8
MC-150-2025-13	20x25x4	13	20-1/8	25-1/8	17-7/8	21-7/8
MC-150-1620-11	16x20x4	11	16-1/8	20-1/8	13-7/8	16-7/8
MC-150-1620-13	16x20x4	13	16-1/8	20-1/8	13-7/8	16-7/8
MC-150-1625-11	16x25x4	11	16-1/8	25-1/8	13-7/8	21-7/8
MC-150-1625-13	16x25x4	13	16-1/8	25-1/8	13-7/8	21-7/8

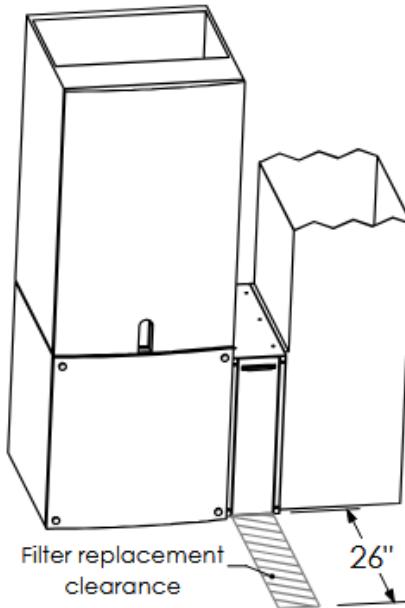
## 4. Planning & Preparation

### Location Guidelines:

- Install in return air duct upstream of furnace/air handler
- Avoid moisture sources or direct water spray
- Ensure a minimum of 26" clearance in front of access door

### Tools Needed:

- Sheet metal screws (#8 recommended) or 1/8" rivets
- Drill with metal bit
- Duct sealant or HVAC foil tape
- Level and tape measure
- Gloves (cabinet edges may be sharp)
- Optional: Turning vanes for 90° elbows



## 5. Installation Instructions

### Step 1: Positioning

- Cabinet may be mounted vertically or horizontally within the return air duct (examples below)
- Cabinet is engineered to support the weight of a residential furnace and evaporator coil
- Start installation with door mounted to determine open direction

**NOTE:** Ensure the access door is on the serviceable side and can open fully without obstruction.

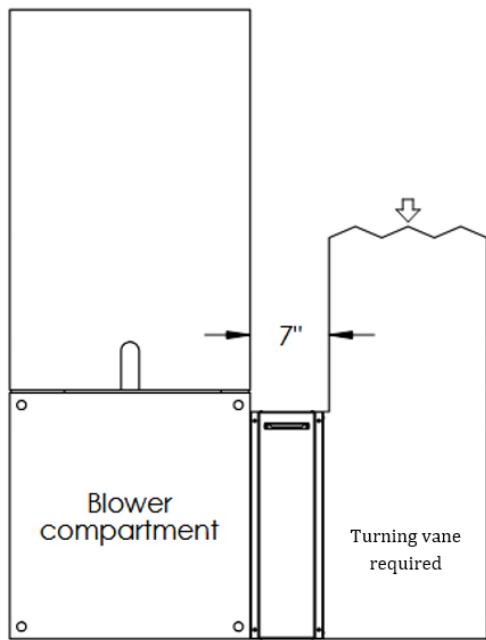


Fig. 1. Highboy furnace with side installation

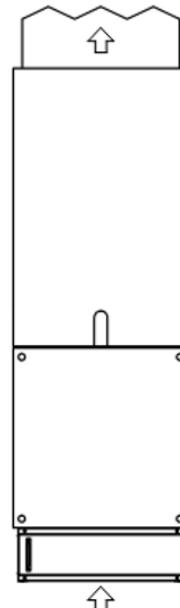


Fig. 2. Highboy furnace

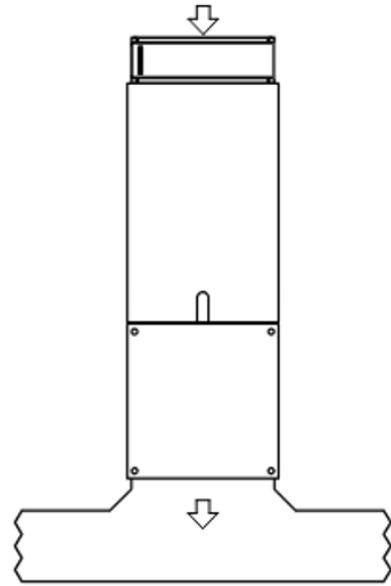


Fig. 3. Lowboy furnace

## Step 2: Mount to Air Handler

- Align cabinet with return inlet
- Seal joint with caulk, gasket, or foam tape
- Secure with screws or rivets

## Step 3: Duct Connection

- Attach return duct to opposite cabinet opening
- Use gradual transitions if duct size differs from cabinet dimensions (max 20° expansion [Fig. 4])
- Turning vanes are required when a sharp duct turn occurs immediately before cabinet (Fig. 1)

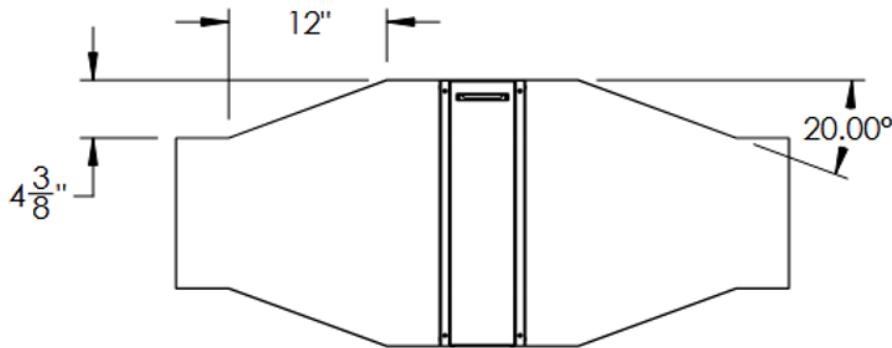


Fig. 4. Maximum duct transition angle to prevent turbulence

## Step 4: Final Sealing

- Seal all seams using HVAC foil tape or mastic
- Reinstall access door

## 6. Filter Replacement

### Frequency:

- Recommended replacement every **6-9 months** depending on air quality

### Steps:

1. Turn off your HVAC system.
2. Release access door by pulling on door handle, remove door and set aside.
3. Remove the old filter, look for the airflow arrow and make note of the direction.
4. Insert the new filter by pushing on the filter corners, ensuring the airflow arrow is pointing toward the blower.
5. Reinstall access door.

Model	Filter Size (inches)	MERV
MC-150-2020-11	20x20x4	11
MC-150-2020-13	20x20x4	13
MC-150-2025-11	20x25x4	11
MC-150-2025-13	20x25x4	13
MC-150-1620-11	16x20x4	11
MC-150-1620-13	16x20x4	13
MC-150-1625-11	16x25x4	11
MC-150-1625-13	16x25x4	13

## 7. Warranty Information

### LIMITED WARRANTY

This warranty supersedes and replaces any warranty statements made orally by the Sales Person, Distributor, or Dealer, or contained within the written instructions or other brochures or informational documents related to this product.

Manufacturer warrants the new **MICROCON by RGF®** equipment\* to be free from defects in material and workmanship under normal use and service when operated and maintained in strict accordance with manufacturer's instructions for a period of five (5) years from the date of receipt of equipment. (**For international orders twelve (12) months parts only. Shipping not included.**)

Manufacturer's obligation under this warranty is limited to repairing or replacing any part found to its satisfaction to be so defective. This warranty does not cover parts damaged by decomposition from chemical action or wear caused by abrasive materials, nor does it cover damage resulting from misuse, abuse, or any use other than the intended use, accident, neglect, or from improper operation, maintenance, installation, modification or adjustments.

**Manufacturer assumes no liability for any harm that may occur as a result of the use of this equipment and shall not be liable for consequential or any other damages, whether or not caused by manufacturer's negligence or resulting from any express or implied warranty or breach thereof. Consequential damages for the purpose of this warranty shall include, but not be limited to, loss of use, income, profit, or damages to property, or injury or death to persons or animals occasioned by or arising out of operation, use, installation, repair or replacement of the equipment or otherwise.**

### **THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.**

To obtain warranty service and return authorization number, contact the factory at (561) 848-1826 / 800-842-7771, fax (561) 858-9454, or ship the part, postage prepaid, to:

RGF Environmental Group, Inc.  
Customer Service Department  
1101 West 13th Street Riviera Beach FL 33404 USA

For questions related to this warranty call or write:

**Manufacturer:**

**RGF Environmental Group Inc  
1101 West 13th Street Riviera Beach Florida 33404**  
**Web: [www.rgf.com](http://www.rgf.com)**  
**E-mail: [requests@rgf.com](mailto:requests@rgf.com)**  
**Toll Free: (800) 842-7771**  
**Tel: (561)848-1826 Fax: (561)848-9454**

**\*Warranty applies to filter box only not filter element.**

**RGF Environmental Group, Inc.**  
**1101 West 13th Street (Port of Palm Beach Enterprise Zone)**  
**Riviera Beach, FL 33458**