

General

The Tobero Aluminium Carbon Air Filter is an easy to install partial bypass carbon type air purifier for light duty IAQ applications in home and commercial recirculated air systems. The filter uses premium grade granular GTW 191 activated carbon to remove odors by the adsorption process rather than masking them as “Air Fresheners” do. Odors are controlled by surface adsorption on the carbon which has over one million square feet of surface area per square foot face area. Typical house hold application are the removal of odors from bathrooms, cooking, smoking, and entertaining. Commercial applications may include restaurants, schools, medical offices, beauty salons, health clubs, and offices.

Construction

An Aluminium perforated sheet material for the base structure of the filter. The perforated sheet provides for the exposure of a great amount of surface area for full utilization of the carbon. The perforated sheet is filled with granular activated carbon to either 50% or 75% level. The 75% filler has a longer life than the 50% fill filter, but its airway pressure drop is greater. The carbon is retained within the perforated sheet on both side

of the filter. The perforated sheet is given additional strength by aluminium frames. Each filter is individually sealed to retain the carbon efficiency prior to installation.

Service Life

It is difficult to predict the life of any carbon filter. It is a function of the concentration level of dust and gaseous contamination for each specific application. Even though sensitivity varies with the individual, the human nose is still the best indicator of the need to change a carbon filter.

Physical Data

Frame: Aluminium channel

Perforated Sheet: Secured on both sides

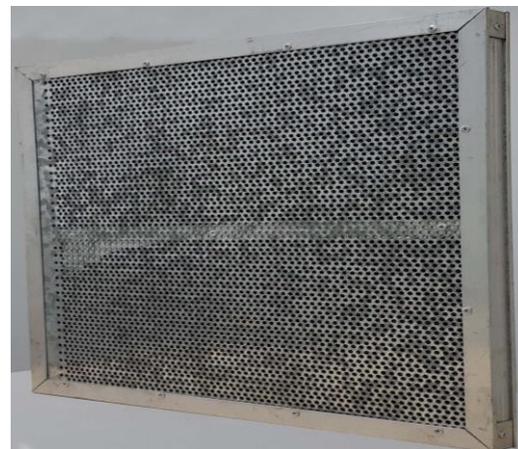
Activated Carbon: Granular GTW 191 base.

Installation

The model carbon filter can be installed with, or in some cases, instead of an existing dust filter. The preferred method is to use a Tobero pleated media filter as a prefilter for the carbon filter.

Important Features

- ❖ Low static pressure partial bypass type odor absorber.
- ❖ Premium GTW 191 coal based activated carbon.
- ❖ Controls odors in many light duty applications.



PERFORMANCE DATA

STANDARD SIZE CAPACITIES & DIMENSIONS			
Thickness (inches)	Size HXW	Nominal CFM at 300 FPM	Carbon Weight
1	24x24	2000	4 kg
1	12x24	1000	2 kg
2	24x24	2000	7 kg
2	12x24	1000	3.5kg

Guide Specifications

General

Aluminium carbon air filter model is manufactured by Tobero Pte.Ltd, Singapore.

Filter Construction

- ❖ Filter shall be constructed of perforated sheet it is filled with granular bituminous coal based activated carbon GTW 191
- ❖ Fill level shall be 50% or 75% as specified
- ❖ Filter frame shall be an aluminium c channel.
- ❖ Each filter shall be sealed to retain carbon efficiency prior to installation.

Different Activated Carbons & Gases Filter Media

- ❖ GTW powder activated carbon 100mesh, 200mesh, 325mesh
- ❖ GTW granular activated carbon 4x6mesh, 4x8mesh, 8x30mesh, 10x30mesh, 12x30mesh, 20x40mesh
- ❖ GTW pellet activated carbon for VOC gases removal 0.9mm, 1.5mm, 3mm, 4mm, 5mm, 8mm
- ❖ GTW impregnated activated carbon for toxic gases removal
- ❖ GTW 19 and 191 for solvent vapor removal
- ❖ GTW 206 for acidic gases removal
- ❖ GTW 409 for ammonia removal
- ❖ GTW 308 for formaldehyde reducing gases removal
- ❖ GTW Hopcalite for CO converting catalyst
- ❖ GTW soda lime for CO2 absorbent
- ❖ GTW507 for chlorine gas removal
- ❖ GTW 103 for Mercury removal
- ❖ GTW 096 for AsH3 PH3 removal



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