



# Bioclimatic Air Systems

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## PRODUCT DATA

### GAS FILTRATION MEDIA

#### Bioclimatic BIO-CARB 300/400

BC-300/BC-400 is a virgin activated carbon media, which utilizes an extruded coal based or granular coconut shell substrate. Activated carbon is well recognized in the Air Pollution Control industry for its extraordinary adsorption capacity. The adsorption process is a physical phenomenon in which certain substances are able to attract contaminant gas molecules and fix them unto their surfaces. The adsorption potential of a gas contaminant is positively correlated with its molecular weight and is dependent on the structure of the molecule. By strictly enforcing the specifications for mesh size, CTC activity, moisture content and hardness, these products ensure the maximum removal efficiencies at the lowest possible resistance.

#### SPECIFICATIONS:

#### BC-300/Coal Based

Apparent Density	0.39 – 0.52 g/cc
Carbon Tetrachloride	60% Min.
Hardness (ASTM)	90% Min.

#### TYPICAL PROPERTIES:

#### BC-300/Coal Based

#### BC-400/Coconut Shell Type

Apparent Density		0.45 g/cc
Bulk Density	28 lb/ft <sup>3</sup> Avg.	28 lb/ft <sup>3</sup>
Carbon Tetrachloride		60% Min.
Surface Area	1000 m <sup>2</sup> /g	1200 m <sup>2</sup> /g
Hardness (ASTM)		98%
Moisture	3% max.	4% Max.
Ash	9%	4%
Shape	Cylindrical	Granule
Particle Length	4.5 mm	N/A
Mean Particle Diameter	3.75 mm	4 x 8 mesh
Resistance @ 100 fpm	0.25 in. WC/in. bed	0.30 in. WC/in. bed
Resistance @ 0.5 m/s	62 Pa/25 mm bed	75 Pa/25 mm bed

#### PACKAGING

BS-300/Coal Based & BC-400/Coconut Shell carbons are available in 1 cu. ft. corrugated cartons and 7 cu. ft. plastic lined drums. Unless otherwise specified, BC-300/BC-400 is supplied in 1 cu. ft. corrugated cartons.

#### SAFETY PRECAUTIONS

Always refer to the Material Safety Data Sheet for detailed information on safety.