**SAAF Gas-Phase Plastic Canisters**

 I. Manufacturers are approved for use. No substitutions will be permitted.

*A. AAF International®*

*B. American Air Filter®*

*C. AAF-McQuay® (AMI)*

*D. Daikin Industries*

II. SAAF Gas-Phase Plastic Canisters

*A. General Information*

1. SAAFCanister™ is factory pre-filled with user-specific chemical media. Each canister is vibration filled to ensure that the media is uniformly packed. Its housing consists of multiple individual canisters, assembled into a galvanized sheet metal holding frame to fit standard dimension filter sections in air handling units.

*B. Design and Materials*

1. The SAAFCanister™ shall be made of injection-molded high-impact polystyrene and extruded ABS (Acrylonitrile Butadiene Styrene) and shall be enclosed with a plastic end cap. It shall be recyclable or incinerable.

2. The SAAFCanister™ comes equipped with pre-installed inner scrims to minimize media dust.

3. The SAAFCanister™ is available prefilled with chemical media tailored to the user's application. Available chemical media options are listed in Section C.

4. The SAAFCanister™ system comes factory-ready for installation. No special tools are needed to replace the canister. The individual canister seals and holds in the frame, due to its unique seal and bayonet-style clamping mechanism.

5. The SAAFCanister™ shall be as indicated below as manufactured by AAF International and sold under the brand names of AAF and American Air Filter.

a) SC18

*(1) Nominal Size = Ø 6 x 18”(l)*

*(2) Actual Size = Ø 5.8 x 17.7”(l)*

*(3) Chemical media capacity = 0.16 cubic ft.*

*(4) Chemical media bed depth = 1”*

b) SC24

*(1) Nominal Size = Ø 6 x 24”(l)*

*(2) Actual Size = Ø 5.8 x 23.6”(l)*

*(3) Chemical media capacity = 0.21 cubic ft.*

*(4) Chemical media bed depth = 1”*

*C. Chemical Media*

1. Media Options shall be as follows.

a) SAAFCarb MA – Acid Gas Media

*(1) Provides chemisorption and adsorption of acid gases including hydrogen sulfide, sulfur dioxide, volatile organic compounds, chlorine, and hydrogen chloride.*

*(2) ASTM D 6646 H2S capacity of 0.12 - 0.15 g/cc*

*(3) Pelletized activated carbon*

*(4) Impregnated for the removal of acid gases*

b) SAAFCarb – Virgin Activated Carbon

*(1) Provides adsorption of organic compounds and other compounds removed well by adsorption or reaction with activated carbon including volatile organic compound such as toluene and chlorine.*

*(2) ASTM D 3467 CTC Activity of 60%*

*(3) Pelletized activated carbon*

*(4) Virgin activated carbon*

c) SAAFCarb MB - Base Gas Media

*(1) Provides chemisorption and adsorption of base gases including ammonia, basic compounds, and volatile organic compounds.*

*(2) Pelletized activated carbon*

*(3) Impregnated for removal of base gases.*

d) SAAFOxidant – Oxidizing Media Impregnated with Potassium Permanganate.

*(1) Provides chemisorption or reactive organics and acidic compounds including hydrogen sulfide, formaldehyde, nitric oxide, sulfur dioxide and other low molecular weight organics.*

*(2) Potassium Permanganate content of 8%*

*(3) Spherical alumina-based media*

e) SAAFOxidant SC – Standard Capacity Oxidizing Media Impregnated with Potassium Permanganate.

*(1) Provides chemisorption or reactive organics and acidic compounds including hydrogen sulfide, formaldehyde, nitric oxide, sulfur dioxide and other low molecular weight organics.*

*(2) Potassium Permanganate content of 4%*

*(3) Spherical alumina-based media*

f) SAAFBlend GP – General Purpose Blend

*(1) Equal volumetric blend of SAAFCarb and SAAFOxidant to provide adsorption of volatile organic compounds removed by virgin activated carbon and chemisorption of reactive compounds removed by potassium permanganate impregnated media.*

g) SAAFBlend CB – Cannabis Blend

*(1) 80% of SAAFCarb and 20% of SAAFOxidant to provide adsorption of volatile organic compounds removed by virgin activated carbon and chemisorption of reactive compounds removed by potassium permanganate impregnated media.*