**1.0 General**

**1.1** - Air filters shall be HEPA-grade high-capacity air filters with waterproof micro glass fiber media, tapered corrugated aluminum separators, urethane sealant, 16-gauge steel enclosing frame, and one of the following: a poured-in-place seamless gasket, dovetail-cornered peel-and-stick neoprene gasket or gel seal.

**1.2** - Sizes shall be as noted on drawings or other supporting materials.

**2.0 Construction**

**2.1** - Filter media shall be one continuous pleating of micro glass fiber media.

**2.2** - Pleats shall be uniformly separated by tapered corrugated aluminum separators incorporating a hemmed edge to prevent damage to the media.

**2.3** - The media pack shall be potted into the enclosing frame through the use of a urethane sealant.

**2.4** - The enclosing frame of 16-gauge steel with a zinc aluminum alloy finish, shall be bonded to the media pack to form a rugged and durable enclosure. The filter shall be assembled without the use of fasteners to assure no frame penetrations. Overall dimensional tolerance shall be correct within -1/8”, +0”, and square within 1/8”.

**2.5** - A (poured-in-place seamless gasket, dovetail-cornered peel-and-stick neoprene gasket or gel seal) shall be included on the downstream side of the enclosing frame to form a positive seal upon installation.

**3.0 Performance**

**3.1** - The filter shall have a tested efficiency of (99.97%, 99.99%, and 99.999%)\* as defined by IEST RP-CC001.

**3.2** - Initial resistance to airflow shall not exceed 1.35” w.g. +/-10% at rated capacity.

**3.3** - Filter shall be rated by Underwriters Laboratories as UL-900 and UL-586.

**3.4** - The filter shall be capable of withstanding 10” w.g. without failure of the media pack.

**3.5** - Manufacturer shall provide evidence of facility certification to ISO 9001:2015.

**Supporting Data** - The filter shall be labeled as to tested efficiency, rated/tested airflow, and pressure drop and shall be serialized for identification.

Filters shall be Camfil Absolute XH or equal.

*\* Items in parentheses ( ) require selection.*

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