**Air Filters**

**1.0 General**

**1.1** - Air filters shall be HEPA grade standard capacity air filters, with water-resistant micro glass fiber media, glass filament thread media separators, ceramic sealant, a ceramic enclosing frame, and glass-braid or rolled glass fiber paper sealing gaskets. Filters shall be capable of continuous operation to 650° F (343° C).

**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. The media shall be capable of withstanding temperatures to 650° F (343° C).

**2.2** - Pleats shall be uniformly separated by glass fiber filaments, to allow uniform airflow through the media, and prevent damage to the media through media-to-media contact.

**2.3** - The media pack shall be bonded to the enclosing frame, through the use of a polymineral sealant.

**2.4** - The enclosing frame, of ceramic construction, shall be bonded to the media pack and form a rugged and durable enclosure. Overall dimensional tolerance shall be correct within -1/8”, +0”, and square within 1/8”.

**2.5** - A rolled-glass fiber paper gasket shall be located on the downstream side of the filter, and shall be capable of maintaining the filter to holding mechanism seal throughout the life of the filter. If an upstream gasket is required, it shall be constructed of a 0.6 mm glass braid.

**2.6** - Stainless steel face screens, with diamond-shaped perforations, shall be installed on the air-entering and air-exiting sides of the filter.

**3.0 Performance**

**3.1** - The filter shall be pre-qualified, using a factory test procedure that subjects the filter to a minimum temperature of 572° F (300° C). The procedure shall verify that the filter is stabilized, in dimensions and performance.

**3.2** - The filter shall have a tested efficiency of 99.99% when evaluated on particles 0.3 microns in size.

**3.3** - Initial resistance to airflow shall not exceed 1.0” w.g. at rated cfm.

**3.4** - The filter shall be guaranteed to perform to specifications for a period of one year when installed per manufacturers’ installation instructions.

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

Filter shall be Camfil Termikfil Absolute®

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