**Air Filters**—**1.0 General**

**1.1** - Air filters shall be high-efficiency (99.995% @ MPPS[H14 per EN1822] or Type K per IEST), uni-directional airflow, individually tested and certified panel filters consisting of aluminum enclosing frame, low-outgassing sealant, continuous thermoplastic resin pleat separators and polymeric media with dual functional filtration layers compatible with PAO and other oil aerosols as prescribed by IEST.

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

**2.0 Construction**

**2.1 -** Filter shall be manufactured in a facility qualified to IOS 9001-2015 Certified Quality System.

**2.2** - Filter media shall be one continuous pleating of polymeric media formed into a uniform pack depth of (45, 68)\* MM.

**2.3** - Pleat spacing shall be by continuous thermoplastic resin separators to prevent media-to-media contact and promote uniform airflow through the media pack.

**2.4** -The media pack shall be completely encapsulated in a polyurethane sealant creating a rigid self-supporting pack. The sealant shall be low out gassing and fire resistant.

**2.5** -The enclosing frame, of anodized aluminum profiles, shall be joined together with secure internal corner clips to form a rugged and durable enclosure. Overall dimensional tolerance shall be correct within +0, -1/8", and square within 1/4".

**2.6** - Gaskets, unless otherwise noted, shall be low outgassing cleanroom grade cellular urethane foam. Corners shall be continuously poured and jointless to form a leak-free, positive seal.

**3.0 Performance**

**3.1** - The filter shall be identified with a machine-printed (not handwritten) label including serial number, bar code, and actual tested efficiency, pressure drop, and airflow according to IEST-RP-CC001, latest edition.

**3.2** – Camfil’s Megalam ES panels are listed by Underwriters Laboratories under UL-900. Manufacturer shall provide evidence of facility certification to ISO 9001:20015.

Filter shall be Camfil Megalam Series or equal.

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

Nov/2024