KRUEGER

CRFF SERIES

SUGGESTED SPECIFICATION & CONFIGURATION | CRFF-ARS

The critical room fan filter unit shall be Krueger model CRFF-ARS of the sizes shown on the plans or outlet schedule. The unit shall be configured to deliver uniform filtered laminar flow over the face of the unit. A patented air baffle system will be furnished as an integral part of the fan plenum housing. The fan filter unit shall be UL 507 listed, possessing a UL 900 filter which is removable from the room side. The lid shall be constructed of .080" (2.0 mm) aluminum with ¼"-20 (M6x1) threaded inserts in four corners for suspension. The filter housing will be constructed of 0.063" (1.6 mm) thick aluminum with integral knife edge. The unit will be furnished with a 30% (20 PPI) polyurethane foam, washable pre-filter (to be removed with A/C collar option). The unit will contain an integral factory tested type | HEPA filter, which will be rated 99.99% efficient in removal of particles 0.3 micron and larger; leak free in accordance with the latest I.E.S.T. recommended practices. The HEPA filter shall be auto scanned for efficiency and leakage prior to assembly of the fan filter unit. HEPA filter media shall be micro-glass fiber with no more than 8 pleats per inch and contain a continuous gel seal pocket. The fan will be direct drive; forward curve centrifugal type with permanently lubricated sealed ball bearings. Bearings are rated for L-10 life of 80,000 hours. The motor shall be a permanent split capacitor type, rated for continuous duty, furnished with thermal overload protection and Solid State Speed Control.

ULPA Filters (Rated 99.9995% at 0.12 Micron), UL 900 type F, PTFE (45mm and 68mm packs) are Boron-free ULPA.

Total weight of the standard (24" x 48") unit, excluding optional accessories shall be less than 71 lbs. (32 kg).

PERFORMANCE

The unit shall meet or exceed the requirements/ specifications of the following industry standards: ISO Class 5 (Class "100" (M 3.5)) air per the latest IEST 14644-1 (Airborne Particulate Cleanliness Classes), I.E.S.T. Recommended Practices (Laminar Flow Clean Air Devices). Average measured air velocity will be 90 (±10) ft/min (.45 m/s), when measured using a Velgrid (eight readings) 6 in. (152mm) below the filter face. All measured values shall fall within ± 20% of the measured average. The sound level shall be approximately 51 dBA (below NC 45) on low speed or with the optional speed control, measured at 30 in. (762 mm) from the filter face, with the fan delivering an average air flow velocity of 90 ft/min (.45 m/s). Ambient sound level less than 35 dBA. Noise measurements are taken with a clean filter with no external static pressure. Vibration level will not exceed .09 MILS RMS at 90 ft/min (0.45 m/s).

FINISH

1. SERIES: (XXXX-XXX) CRFF-ARS

- 2. MOTOR: (X)
 - 1 PSC 120V 1-Phase
 - 2 PSC 208/240V 1-Phase 3 - PSC 277V 1-Phase
 - 3 PSC 277V T-PHase
- 3. CONTROL: (X) PSC - Solid State Speed Controller
- 4. FRAME: (XXX) F23 - Lay-in T-Bar
- 5. PANEL: (XX)x(XX) 24"x24" 24"x48"

6. FILTER: (XXXX)

HEPA - 99.99% @ 0.3 Micron ULPA - 99.9995% @ 0.12 Micron

7. ACCESSORY 1: (XXX) (XXX) (XXX)

- 0 None
- RFI Run & Filter Load Indicator Light
- AIL Green Run Indicator Light
- FLI Filter Load Indicator Light
- CFM Continuous Filter Monitor (Field Wired)

8. ACCESSORY 2: (XXX)

- 0 None
- INS Insulation Top & Sides

9. ACCESSORY 3: (XXX)

- 0 None
- FSL Filter Ships Loose

10. ACCESSORY 4: (XXXXX)

0 - None SMASS - 304 SS Surface Mount Frame SMAW - White Surface Mount Frame

11.FINISH: (XX)

The filter face guard will be anodized or epoxy powder coated perforated aluminum. Both the fan plenum and filter

housing shall have a mill finish (white aluminum casing or stainless steel construction optional), sealed airtight.

- 01 Mill Aluminum Casing with White Diffuser Screen
- 44 White Aluminum Casing with White Diffuser Screen
- 90 304 SS Casing with 304 SS Diffuser Screen
- 91 Mill Aluminum Casing with 304 SS Diffuser Screen

SPECIALTY PRODUCTS | CRITICAL ENVIRONMENT

SAMPLE CONFIGURATION: CRFF-ARS - 2 - PSC - F23 - 24x48 - HEPA - RFI - 0 - 0 - 0 - 01