

**OUTSTANDING PERFORMANCE.** All Hart & Cooley flexible duct products are performance-tested in accordance with industry standards to ensure reliability and years of service. Our core is tested (in accordance with ADC FD 72-R1) for actual installation static pressure/ temperature performance and meets the ratings specified in our catalog. Our polyester cores are also tested for microbial resistance by GEI per ASTM D6329-98. The vapor barriers are tested for permeation in accordance with ASTM test methods. Call-backs are expensive and eat away at your profits, so use flexible duct you know has been performance-tested.

**INDUSTRY INVOLVEMENT.**

Hart & Cooley is committed to the flexible duct industry and supports it through involvement in many industry-related associations, committees, and organizations. Participation in ADC and UL's industry advisory council for UL 181 allows Hart & Cooley to stay at the forefront of industry changes. You need a manufacturer of flexible duct who is involved in the industry to protect your interests.



## Performance Data

**RESIDENTIAL SERIES BLACK POLYESTER CORE**

- Rated pressure per UL 181: 12" W.C. positive, 3/4" W.C. negative (1/2" W.C. neg for 14" – 20" diameter)
- Recommended operating pressure: 6" W.C. positive for 12" diameter and under 4" W.C. positive for 14" diameter and over
- Rated maximum air velocity: 5000 FPM
- For residential and light commercial applications

**COMMERCIAL SERIES METALIZED POLYESTER CORE**

- Rated pressure per UL 181: 16" W.C. positive, 1" W.C. negative (1/2" W.C. neg for 14" – 20" diameter)
- Recommended operating pressure: 6" W.C. positive for 12" diameter and under 4" W.C. positive for 14" diameter and over
- Rated maximum air velocity: 6000 FPM
- For residential and most commercial applications

**COMMERCIAL SERIES CORRUGATED ALUMINUM CORE**

- Maximum rated pressure per UL 181: 12" W.C. positive for 10" diameter and under 8" W.C. positive for 12" diameter and over 3" W.C. maximum negative
- Rated maximum air velocity: 5000 FPM

**INSULATION R-VALUES**

- Certified by Underwriters Laboratories Inc. and the Air Diffusion Council in accordance with ADC Flexible Duct Performance and Installation Standards using ASTM C-518 at installed wall thickness on flat insulation only

**POLYETHYLENE JACKETS**

- A durable black polyethylene vapor barrier
- High tensile scrim is used under the vapor barrier to provide additional strength and tear resistance
- Perm rating of 0.1 (ASTM E96 Method "A")

**METALIZED JACKETS**

- A metalized polyester vapor barrier is constructed by sandwiching fiberglass scrim between layers of polyester to provide an outstanding combination of strength and tear resistance
- Perm rating of 0.04 (ASTM E96 Method "A")

**SURFACE BURNING CHARACTERISTICS (Class 1 Air Ducts)**

- Maximum flame spread: 25
- Maximum smoke developed: 50

**OPERATING TEMPERATURE RANGE**

- -20°F to 140°F continuous @ max. Pos. pressure
- -20°F to 180°F intermittent @ 2" W.C. Pos. pressure
- -20°F to 250°F intermittent @ 0.5" W.C. Pos. pressure
- For corrugated aluminum cores: -100°F to 250°F continuous @ max Pos. pressure

**CODE APPROVALS, CERTIFICATIONS, AND LISTINGS**

- UL 181 Listed
- IMC
- UMC
- California Bureau of Home Furnishings
- Most Federal, State, and Local codes and standards
- NFPA 90A and 90B
- HUD