



RESIDENTIAL AND COMMERCIAL

Flexible Duct Systems

GREENGUARD® Level-4 Highly Microbial Resistant rated.



Edition 4





Hart & Cooley, Inc
5030 Corporate Exchange Blvd. SE
Grand Rapids, MI 49512
www.americanmetalproducts.com

Order information:
To order AMERIFLEX products,
please contact an authorized
AMERIFLEX distributor or
call 800.423.4270.

When you purchase AMERIFLEX products,
you also receive the full support of AMERIFLEX
technical and customer service.

Technical and customer service:
800.423.4270 toll-free
616.656.8400 phone
800.626.3825 toll-free fax
616.656.6388 fax

Internet address:
<http://www.americanmetalproducts.com>

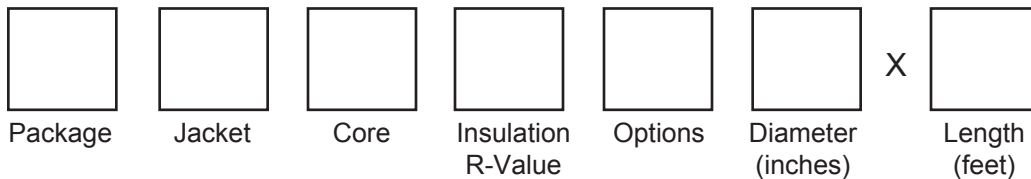
Install confidence with these other quality

Hart & Cooley products available:

- Registers, Grilles & Diffusers
- Type B Gas Vent Systems
- Special Gas Vent
- Model TLC All-Fuel Chimney
- Duct System Components
- SMART Air and Energy Solutions

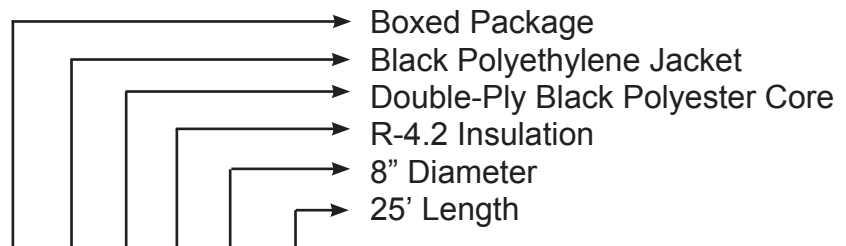
FLEXIBLE DUCT SYSTEMS	Page
MODEL SELECTOR	1
PRODUCT INFORMATION	2-3
PERFORMANCE DATA	3
AIR DUCTS, RESIDENTIAL SERIES	4-5
AIR DUCTS, COMMERCIAL SERIES.....	5-6
AIR CONNECTORS AND SLEEVES.....	7
ACCESSORIES.....	8
AIR FRICTION CHART	9

MODEL SELECTOR



Package	Jacket	Core	Insulation	Options
A – Boxed	0 – No Jacket	0 – No Core	0 – No Insulation	CP – Compressed
AB – Bagged	1 – Black Polyethylene Jacket	1 – Double-Ply Black Polyester Core	4 – R-4.2 Insulation	UCP – Uncrimped, Compressed
	2 – Metalized Polyester Jacket	4 – Corrugated Aluminum Core	6 – R-6.0 Insulation	
	3 – Heavy-Duty (4 mil.) Black Polyethylene Jacket	9 – Multi-Ply Metalized/Polyester Core “Commercial Series”	8 – R-8.0 Insulation	

How to Order:



A 1 1 4 8 25

Disclaimer: We reserve the right to make changes in the products, product specifications, packaging and to discontinue product without notice.

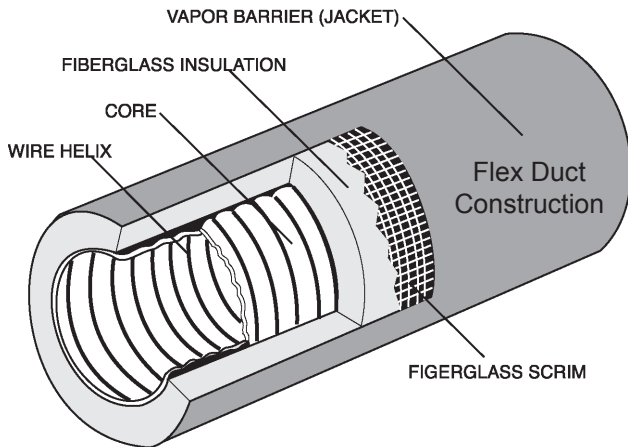
Product Information



AMERIFLEX offers flexible duct products for both residential and commercial applications, that provide the most economical solution to your air-handling needs. AMERIFLEX uses Formaldehyde-Free insulation for improved indoor air quality. Available in boxes or banded bags. Custom lengths available.

POLYETHYLENE JACKET AIR DUCTS. These feature a durable, scuff-resistant black polyethylene vapor barrier that provides improved protection against damaging ultra-violet light. Installation is made easy with the reinforcing fiberglass yarn scrim, which acts as a rip-stop and helps prevent tearing. These air ducts feature an R-value of 4.2, 6.0 or 8.0 to fit any application, and also come in special configurations especially designed for manufactured homes.

METALIZED JACKET AIR DUCTS. Providing the ultimate in strength and protection, metalized polyester vapor barriers are reinforced with fiberglass scrim to provide high durability and tear resistance. The fiberglass insulation furnishes outstanding thermal protection with R-values of 4.2, 6.0 or 8.0. The metalized jacket air duct and sleeves are available with either a two-ply black polyester core (Residential Series) or high-pressure multi-ply metalized polyester laminate cores (Commercial Series) that encapsulate a high carbon steel wire helix.



TEN-YEAR WARRANTY. All AMERIFLEX flexible duct products are protected by the industry's strongest warranty. Our flexible ducts are warranted to be free of defects in material and workmanship for ten (10) years from the date of shipment. (Contact AMERIFLEX, Inc. for full details.)

ECONOMICAL AIR DUCT CONNECTORS. Designed for high pressure applications, air duct connectors utilize either a multi-ply metalized/polyester laminate encapsulating a high carbon steel wire helix or corrugated aluminum for maximum strength and durability.

UL-LISTED. AMERIFLEX flexible air ducts and air connectors have been rigorously tested by Underwriters Laboratories, Inc. in accordance with UL 181, The Standard for Safety for Factory-Made Air Ducts and Air Connectors. UL is a not-for-profit laboratory with an outstanding reputation for fire safety and performance testing. Make sure that the flexible duct you buy bears this UL mark. **Our UL listing assures you that our duct cores will not promote the growth of mold.**



ADC-CERTIFIED R-VALUES.

All AMERIFLEX insulated flexible air ducts are certified by the Air Diffusion Council for thermal performance in accordance with the ADC Flexible Duct Performance & Installation Standards (1996). Certified R-values are essential to ensure that the product you buy meets the many regulatory energy codes. Only ADC-certified products will bear this ADC thermal certification marking.



Thermal Performance

GREENGUARD FOR CHILDREN & SCHOOLS.

All AMERIFLEX flexible ducts have achieved GREENGUARD for Children & Schools certification. This certification provides consumers with certified low VOC emitting products that have passed rigorous and frequent tests, which help improve indoor air quality.



GREENGUARD LEVEL 4 MICROBIAL RESISTANT.

All AMERIFLEX flexible ducts are GREENGUARD Level-4 Highly Microbial Resistant rated.

THE COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS



AMERICAN SCHOOLS AND HOSPITAL FACILITIES PRODUCT DIRECTORY

CODE APPROVALS. All AMERIFLEX flexible duct products meet or exceed the requirements of most federal, state, and local mechanical and energy codes. They comply with the International Mechanical Code (IMC), the Uniform Mechanical Code (UMC), NFPA 90A and 90B, HUD, and the California Bureau of Home Furnishings, to name just a few.

OUTSTANDING PERFORMANCE. All AMERIFLEX 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.

AMERIFLEX 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 AMERIFLEX 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)

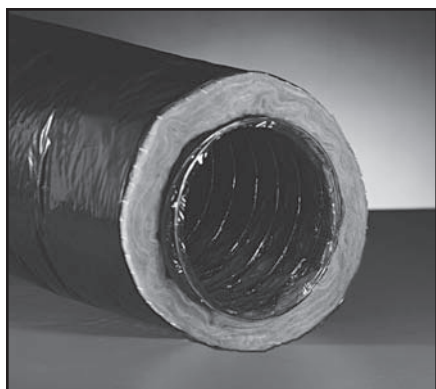
- Maximum flame spread: 25
- Maximum smoke developed: 50

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

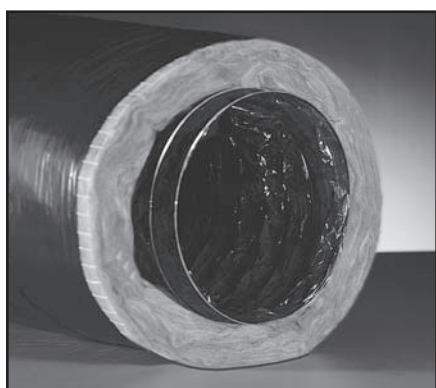
- UL 181 Listed
- NFA 90A and 90B
- IMC
- HUD
- UMC
- California Bureau of Home Furnishings
- Most Federal, State, and Local codes and standards



A114 / AB114

- Black polyethylene jacket
- Double-ply black polyester core 12" W.C. positive, $\frac{3}{4}$ " W.C. negative (1/2" W.C. neg for 14" – 20" diameter)
- R-4.2
- UL-listed
- Boxed or bagged (AB series)
- 25' and 50' lengths
- GREENGUARD Level 4 highly microbial resistant

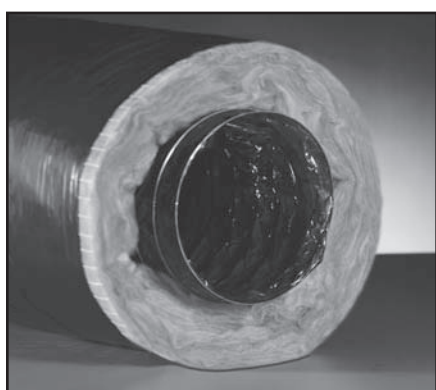
Model	Length (feet)	Diameter (inches)												
A114	25	3	4	5	6	7	8	9	10	12	14	16	18	20
AB114	25	–	4	5	6	7	8	9	10	12	14	16	18	20
A114	50	–	4	5	6	7	8	9	10	12	–	–	–	–



A116 / AB116

- Black polyethylene jacket
- Double-ply black polyester core 12" W.C. positive, $\frac{3}{4}$ " W.C. negative (1/2" W.C. neg for 14" – 20" diameter)
- R-6.0
- UL-listed
- Boxed or bagged (AB series)
- 25' and 50' lengths
- GREENGUARD Level 4 highly microbial resistant

Model	Length (feet)	Diameter (inches)												
A116	25	–	4	5	6	7	8	9	10	12	14	16	18	20
AB116	25	–	4	5	6	7	8	9	10	12	14	16	18	20
A116	50	–	–	5	6	7	8	9	10	–	–	–	–	–



A118 / AB118

- Black polyethylene jacket
- Double-ply black polyester core 12" W.C. positive, $\frac{3}{4}$ " W.C. negative (1/2" W.C. neg for 14" – 20" diameter)
- R-8.0
- UL-listed
- Boxed or bagged (AB series)
- 25' and 50' lengths
- GREENGUARD Level 4 highly microbial resistant

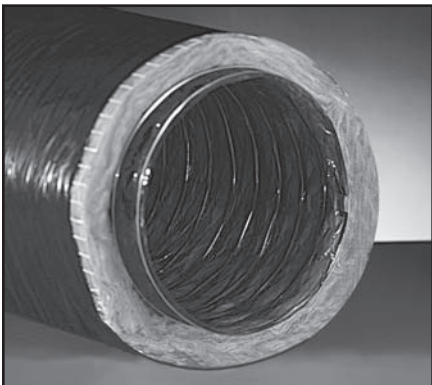
Model	Length (feet)	Diameter (inches)												
A118	25	–	4	5	6	7	8	9	10	12	14	16	18	20
AB118	25	–	4	5	6	7	8	9	10	12	14	16	18	–
A118	50	–	–	–	6	7	8	–	–	–	–	–	–	–



A214 / AB214 / A216 / AB216 / A218 / AB218

- Metalized polyester jacket reinforced with fiberglass scrim
- Double-ply black polyester core 12" W.C. positive, 3/4" W.C. negative (1/2" W.C. neg for 14" – 20" diameter)
- R-4.2 A214,AB214 / R-6.0 A216,AB216 / R-8.0 A218,AB218
- UL-listed
- Boxed or bagged (AB series)
- 25' and 50' lengths
- GREENGUARD Level 4 highly microbial resistant

Model	Length (feet)	Diameter (inches)																		
A214	25	3	4	5	6	7	8	9	10	12	14	16	18	20						
AB214	25	-	4	5	6	7	8	9	10	12	14	16	18	20						
A214	50	-	4	5	6	7	8	9	10	12	-	-	-	-						
A216	25	-	4	5	6	7	8	9	10	12	14	16	18	20						
AB216	25	-	4	5	6	7	8	9	10	12	14	16	18	20						
A216	50	-	4	5	6	7	8	9	10	-	-	-	-	-						
A218	25	3	4	5	6	7	8	9	10	12	14	16	18	20						
AB218	25	3	4	5	6	7	8	9	10	12	14	16	18	-						



A314 / A318

(Manufactured Home) Class 1 Air Duct

- Heavy-duty 4 mil. black polyethylene jacket
- Double-ply black polyester core 12" W.C. positive, 3/4" W.C. negative (1/2" W.C. neg for 14" – 20" diameter)
- R-4.2 A314, R-8.0 A318
- UL-listed
- 25' length
- Boxed
- GREENGUARD Level 4 highly microbial resistant

Model	Length (feet)	Diameter (inches)												
A314	25	-	4	5	6	-	8	-	10	12	14	-	-	-
A318	25	-	-	-	-	-	-	-	10	12	14	-	-	-

Commercial Series Flexible Air Ducts



A144 Commercial Series

- Black polyethylene jacket
- Corrugated aluminum core 12" W.C. positive, 3" W.C. negative
- R-4.2
- UL-listed
- Available in 6' and 7 1/2' lengths

Model	Length (feet)	Diameter (inches)																			
A144*	6	4†	5	6	7	8	9	10	12	14	16	18	20	22†	24†						
A144*	7 1/2	4†	5	6	7	8	9	10	12	14	16	18	20	22†	24†						

***For California Only**

†Not UL-listed



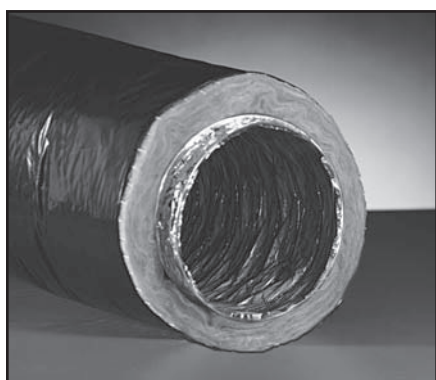
A146 Commercial Series

- Black polyethylene jacket
- Corrugated aluminum core 12" W.C. positive, 3" W.C. negative
- R-6.0
- Available in 6' and 7 1/2' lengths
- UL-listed

Model	Length (feet)	Diameter (inches)													
A146*	6	4 [†]	5	6	7	8	9	10	12	14	16	18	20	22 [†]	24 [†]
A146*	7 1/2	4 [†]	5	6	7	8	9	10	12	14	16	18	20	22 [†]	24 [†]

***For California Only**

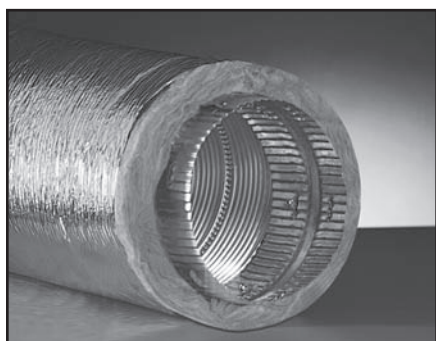
[†]Not UL-listed



A194 Commercial Series

- Black polyethylene jacket
- High pressure core, 16" W.C. positive, 1" W.C. negative (1/2" W.C. neg for 14" – 20" diameter)
- Multi-ply metalized/polyester core
- R-4.2
- Boxed
- 25' length
- GREENGUARD Level 4 highly microbial resistant
- UL-listed

Model	Length (feet)	Diameter (inches)												
A194	25	-	4	5	6	7	8	9	10	12	14	16	18	20



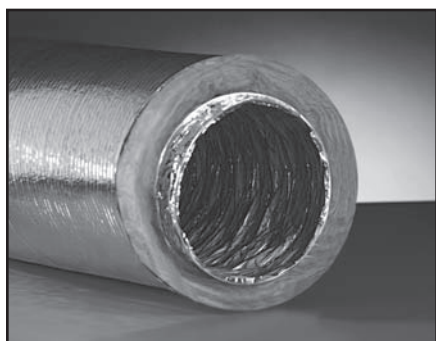
A246 Commercial Series

- Metalized polyester jacket
- Corrugated aluminum core
- R-6.0
- Available in 6' and 7 1/2' lengths
- UL-listed

Model	Length (feet)	Diameter (inches)													
A246*	6	4 [†]	5	6	7	8	9	10	12	14	16	18	20	22 [†]	24 [†]
A246*	7 1/2	4 [†]	5	6	7	8	9	10	12	14	16	18	20	22 [†]	24 [†]

***For California Only**

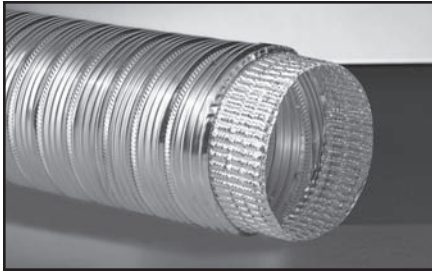
[†]Not UL-listed



A294 / AB294 / A296 / AB296 / A298 / AB298 Commercial Series

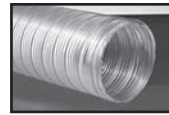
- Metalized polyester jacket reinforced with fiberglass scrim
- High pressure multi-ply metalized/polyester core, 16" W.C. positive, 1" W.C. negative (1/2" W.C. neg for 14" – 20" diameter)
- R-4.2 A294,AB294 / R-6.0 A296,AB296 / R-8.0 A298,AB298
- UL-listed
- Boxed and bagged
- 25' length
- GREENGUARD Level 4 highly microbial resistant

Model	Length (feet)	Diameter (inches)												
A294	25	-	4	5	6	7	8	9	10	12	14	16	18	20
AB294	25	-	4	5	6	7	8	9	10	12	14	16	18	20
A296	25	-	4	5	6	7	8	9	10	12	14	16	18	20
AB296	25	-	4	5	6	7	8	9	10	12	14	16	18	20
A298	25	-	4	5	6	7	8	9	10	12	14	16	18	20
AB298	25	-	4	5	6	7	8	9	10	12	14	16	18	20



AlumiFlex™ A040CP

- Sturdy corrugated aluminum construction
- Bulk packaged
- Class 0 air connector
- One end crimped, compressed



A040UCP

- Uncrimped, compressed



A040

- Male/Female collars, uncompressed
- UL-listed air duct

Series	Model	Length (feet)	Diameter (inches)															
Commercial	A040*	6	-	4†	5	6	7	8	9	10	12	14	16	18	20	22†	24†	
Commercial	A040*	7½	-	4†	5	6	7	8	9	10	12	14	16	18	20	22†	24†	
Residential	A040CP	8	3†	4†	5†	6†	7†	8†	9†	10†	12†	14†	16†	18†	-	-	-	
Residential	A040UCP	8	3†	4†	5†	6†	7†	8†	9†	10†	12†	14†	16†	18†	-	-	-	
Residential	A040CP	10	3†	4†	5†	6†	-	8†	-	-	-	-	-	-	-	-	-	
Residential	A040UCP	20	3†	4†	5†	6†	7†	8†	-	-	-	-	-	-	-	-	-	

***For California Only**

Other sizes available upon request

†Not UL-listed



A090 Commercial Series

- High pressure multi-ply metalized/polyester core, 16" W.C. positive, 1" negative. (1/2" W.C. neg for 14" – 20" diameter)
- UL and CUL listed
- 25' length
- GREENGUARD Level 4 highly microbial resistant
- Bulk packaged
- Class 1 air connector

A010

- Double-ply black polyester core, 12" W.C. positive, 3/4" negative (1/2" W.C. neg for 14" – 20" diameter)

Model	Length (feet)	Diameter (inches)															
A090/A010	25	3	4	5	6	7	8	9	10	12	14	16	18	20			



A104 / A106 / A108

- Black polyethylene jacket
- R-4.2 A104 / R-6.0 A106 / R-8.0 A108 (R-values valid if sleeve is used on relatively sized duct)
- UL-classified
- 5' length
- Starter cone included in each carton

Model	Length (feet)	Diameter (inches)															
A104	5	4	5	6	7	8	9	10	12	14	16						
A106	5	4	4	5	7	8	9	10	12	14	16						
A108	5	4	5	6	7	8	9	10	12	14	16						



A204 / A206 / A208

- Metalized polyester jacket
- R-4.2 A204 / R-6.0 A206 / R-8.0 A208 (R-values valid if sleeve is used on relatively sized duct)
- 5' length
- Starter cone included in each carton
- UL-classified

Model	Length (feet)	Diameter (inches)															
A204	5	4	5	6	7	8	9	10	12	14	16						
A206	5	4	4	5	7	8	9	10	12	14	16						
A208	5	4	5	6	7	8	9	10	12	14	16						



Black



Silver

Duct Tape

- Acrylic adhesive won't dry out
- Single-ply polypropylene backing
- Tears easily by hand
- UL-listed and marked UL-181B-FX

Part No.	Description	Size
011371	Black	2" x 120 yards
011372	Silver	2" x 120 yards



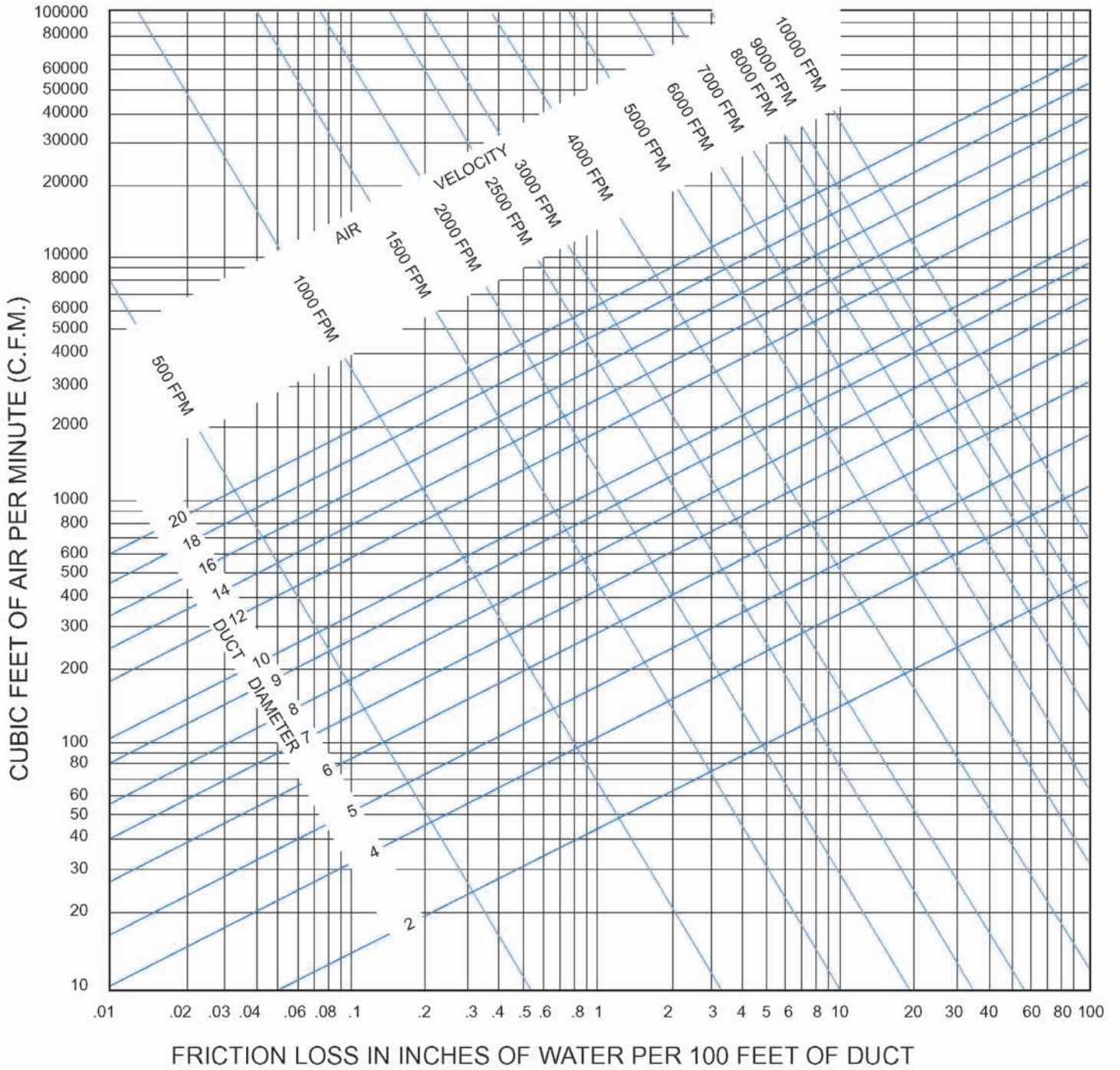
IMPROVES AIRFLOW!

SMART Flow Elbow

- One size fits 4" to 16" flex duct.
- Eliminates flex duct kinks and restrictions
- Can be used for new and retrofit applications
- UL-2043 Classified

Part No.	Description	Pieces per Case
630500	SMART Flow Elbow	25
636501	SMART Flow Elbow Kit Kit includes 2 Flow Elbows and 4 36" duct straps	24 (2/polybag)

Air Friction Chart for Flexible Duct only



To order product literature, please contact
Customer Service toll-free at 800.423.4270.



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