# THE STOCK CATALOG

STOCK PRODUCTS
AND RESOURCES

EFFECTIVE APRIL 1, 2025



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# **WELCOME** WAREHOUSE **CUSTOMERS**

**Air Purification Company** represents leading manufacturers in the HVAC industry in Colorado and Wyoming. From industrial to light commercial projects, we offer only the best applied, commercial, and ventilation products that are guaranteed to work within project specifications.

For over 60 years, we have worked closely with contractors and engineers to provide high-quality products for government buildings, healthcare and research facilities, schools and universities, retail and services businesses.

In a world where indoor air quality is more important than ever, we have brought in new lines to meet the needs for improved IAQ.

In addition to our new lines, **Air Purification Company has** expanded its expertise to work with clients to meet each project's goals and provide the resources needed to succeed.

We take pride in developing and maintaining successful relationships with customers, engineers, and the factories we represent.

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**Motor Starters** 

**Infrared Heat Replacement Parts** 

#### **ALTITUDE CORRECTION FACTORS**

ALTITUDE (FEET)	PRESSURE (INCHES W.C.)	RELIABLE DENSITY FACTOR	AIR DENSITY (LBS/FT3)	SENSIBLE HEAT EQUATION
0				FACTOR 1.085
1000	29.92	1.000 0.964	0.0748	1.046
2000	28.86 27.82	0.984	0.0721	1.046
3000	26.82	0.896	0.0696	0.972
4000	25.84	0.864	0.0646	0.912
4200	25.65	0.857	0.0641	0.930
4400	25.46	0.851	0.0641	0.930
4600	25.40	0.845	0.0637	0.923
4800	25.08	0.838	0.0632	0.910
5000	24.90	0.832	0.0627	0.903
5200	24.90	0.826	0.0622	0.896
5400 5600	24.53 24.34	0.820	0.0613	0.889
		0.814	0.0609	
5800	24.16	0.807	0.0604	0.876
6000	23.98	0.801	0.0599	0.870
6200	23.80	0.795	0.0595	0.863
6400	23.62	0.789	0.0590	0.857
6600	23.44	0.783	0.0586	0.850
6800	23.26	0.778	0.0582	0.844
7000	23.09	0.772	0.0577	0.837
7200	22.91	0.766	0.0573	0.831
7400	22.74	0.760	0.0568	0.825
7600	22.57	0.754	0.0564	0.818
7800	22.40	0.749	0.0560	0.812
8000	22.23	0.743	0.0556	0.806
8200	22.06	0.737	0.0551	0.800
8400	21.89	0.732	0.0547	0.794
8600	21.72	0.726	0.0543	0.788
8800	21.55	0.720	0.0539	0.782
9000	21.39	0.715	0.0535	0.776
9500	20.98	0.701	0.0524	0.761
10000	20.58	0.688	0.0514	0.746
10500	20.18	0.675	0.0505	0.732
11000	19.79	0.661	0.0495	0.718
11500	19.41	0.649	0.0485	0.704
12000	19.03	0.636	0.0476	0.690
12500	18.66	0.624	0.0466	0.677
13000	18.29	0.611	0.0457	0.663
13500	17.93	0.599	0.0448	0.650
14000	17.58	0.587	0.0439	0.637

# **FAN LAWS**

CFM varies directly with RPM CFM<sub>4</sub>/CFM<sub>2</sub> = RPM<sub>4</sub>/RPM<sub>2</sub> CFM<sub>2</sub> = (RPM<sub>4</sub>/RPM<sub>2</sub>) x CFM<sub>1</sub>

SP varies with the square of the RPM  $SP_1/SP_2 = (RPM_1/RPM_2)^2$  $SP2 = (RPM1/RPM2)^2 \times SP1$ 

HP varies with the cube of the RPM  $HP_1/HP_2 = (RPM_1/RPM_2)^3$  $HP_2 = (RPM_1/RPM_2)^3 \times HP_1$ 

# **HEAT/COOL FORMULAS**

For conditions other than standard

Total Heat (BTU/hr) =  $4.45 \times DF \times CFM \times \Delta h$  (std. air)

Sensible Heat (BTU/hr) = 1.08 x DF x CFM x  $\triangle$ t (std. air)

Latent Heat (BTU/hr) =  $0.68 \times DF \times CFM \times \Delta gr$ . (std. air)

Note: DF = Density Factor (see table)

#### **HORSEPOWER**

HP (air) = cfm x  $\Delta$ p (in. H20) / 6350 x Eff. HP (water) = gpm x  $\Delta$ p (ft.) / 3960 x Eff.

# **VAV QUICK SELECT**

INLET	MAX CFM			
SIZE	Cooling	With Coil		
4	225	205		
5	350	205		
6	500	450		
7	650	580		
8	900	580		
9	1050	870		
10	1400	870		
12	2000	1185		
14	3000	1725		
16	4000	2070		
24x16	8000	3280		



Note: Max with hydronic coil is based on 700 fpm coil velocity, 0.1" APD per row at 5,400 feet.

Notes:

1) All values at 70°F

2) Interpolation permitted in table

# PERFORATED CEILING DIFFUSERS

#### **TITUS Model PAS**

- Lay-In Frame (Border Type 3)
- 1, 2, 3, or 4 Way Adjustable Discharge Pattern
- Stee
- · Standard White Finish



MODULE SIZE	NECK SIZE	CFM @ NC25+/-
12x12	6"Ø	150
24x24	6"Ø	150
24x24	8"Ø	230
24x24	10"Ø	300
24x24	12"Ø	390
24x24	14"Ø	500
24x24	16"Ø	600

# LOUVERED CEILING DIFFUSERS

#### **TITUS Model TMSA**

- · Lay-In Frame (Border Type 3)
- High Performance, True 360° Supply Air Pattern
- · Adjustable for Vertical or Horizontal Discharge
- 3 Concentric Cones
- Steel
- · Standard White Finish



MODULE SIZE	NECK SIZE	CFM @ NC25+/-
24x24	6"Ø	200
24x24	8"Ø	300
24x24	10"Ø	475
24x24	12"Ø	625
24x24	14"Ø	800

## **TITUS Model PCS**

- · Lay-In Frame (Border Type 3)
- 4-Way Adjustable Discharge Pattern
- Curved Blade
- Steel
- Standard White Finish



MODULE SIZE	NECK SIZE	CFM @ NC25+/-
24x24	6"Ø	140
24x24	8"Ø	240
24x24	10"Ø	340
24x24	12"Ø	470
24x24	14"Ø	600
24x24	16"Ø	750

# TITUS Model TMS

- Lay-In Frame (Border Type 3)
- High Performance, True 360° Supply Air Pattern
- 3 Concentric Cones
- Steel
- Standard White Finish



MODULE SIZE	NECK SIZE	CFM @ NC25+/-
12x12	6"Ø	200
12x12	8"Ø	300
24x24	6"Ø	200
24x24	8"Ø	300
24x24	10"Ø	475
24x24	12"Ø	625
24x24	14"Ø	800

# LOUVERED CEILING DIFFUSERS

#### **TITUS Model TDC Surface Mount**

- Bevel Drop Face Surface Mount Frame (Border Type 6)
- High Capacity Horizontal Flow Pattern
- 4-Way Throw
- Steel
- · Standard White Finish



NECK SIZE	CFM @ NC25+/-
6x6	160
9x9	320
12x12	550
15x15	780

# PLAQUE/MODULAR CEILING DIFFUSERS

# **TITUS Model MCD**

- Lay-In Frame (Border Type 3)
- Modular Core
- 1, 2, 3 or 4-Way Adjustable Discharge Pattern
- Steel
- Standard White Finish



MODULE SIZE	NECK SIZE	CFM @ NC25+/-
24x24	12x12	450

## **TITUS Model TDC Lay-In**

- Lay-In Frame (Border Type 3)
- High Capacity Horizontal Flow Pattern
- 4-Way Throw
- Steel
- · Standard White Finish



MODULE SIZE	NECK SIZE	CFM @ NC25+/-
12x12	6x6	140
24x24	6x6	140
24x24	9x9	250
24x24	12x12	384
24x24	15x15	384
24x24	18x18	640

#### **TITUS Model OMNI**

- Lay-In Frame (Border Type 3)
- Architectural Square Panel
- 360° Horizontal Air Pattern
- Steel
- Standard White Finish



MODULE SIZE	NECK SIZE	CFM @ NC25+/-
12x12	6"Ø	175
12x12	8"Ø	320
24x24	6"Ø	200
24x24	8"Ø	350
24x24	10"Ø	500
24x24	12"Ø	650
24x24	14"Ø	850

# T-BAR & LINEAR SLOT DIFFUSERS

# TITUS ML-39 Modulinear Slot Diffuser

- · Adjustable pattern controller
- · 2A border for lay-in or concealed surface mounting
- Surface mounting frame out dimension is 46.75" x 4.5"
- · Includes end borders
- Standard white finish



NOM LENGTH	SLOTS	CFM @ NC25+/-
47" *	2	240

<sup>\*</sup> fits 48" lay-in grid

#### **TITUS Model TBDI-80**

- · Low Profile (8"h) Integral Insulated Plenum
- Easily Adjustable Vertical to Horizontal Pattern
- Gasket Tipped Blade
- Steel
- Black Pattern controllers & Exposed Surfaces with White Center Tee



SLOT WIDTH	NOM LENGTH	SLOTS	DIFFUSER WIDTH	INLET SIZE	CFM @ NC25+/-
1"	24"	2	4"	8" Oval	150
1"	48"	2	4"	8" or 10" Oval	200

Surface mounting frames available for: 24"T-bar Diffusers 48"T-bar Diffusers

# TITUS MPI-39 (8" h) Insulated Plenum

- · For use with ML-39 slot diffuser
- 2A border
- · Internal insulation



SLOT WIDTH	NOM LENGTH	SLOTS	INLET SIZE
1"	48"	2	8" Oval
1"	48"	2	10" Oval

# TITUS 800AWO Oval Cable Controlled Damper

- One end straight, one end crimped
- · Oval equivalent 8" 10"
- · Shell length 6"



SIZE	MODEL	WIDTH	HEIGHT
8" Oval	800AWO-T-08	9 - 3/8"	5-1/4"
10" Oval	800AWO-T-10	12 - 1/2"	5-1/4"

# ROUND & VAV CEILING DIFFUSERS

# **TITUS Model TMR**

- Round Diffuser
- 2 Horizontal Discharge Patterns
- · 360° Discharge Pattern
- · Retainer cable provided for neck sizes 12" to 18" diameter
- Steel
- · Standard White Finish

NECK SIZE	CFM @ NC25+/-
6"Ø	150
8"Ø	250
10"Ø	380
12"Ø	550
14"Ø	670
16"Ø	900
18"Ø	1075





#### **ACUTHERM Therma-Fuser Model TF-HC**

- Lay-In Frame
- Four Blade Damper Provides Superior Throw with 66" of Variable Discharge Area
- Separate Thermostat set points for VAV Heating and Cooling
- Superior Air Distribution: Longer Throws, No Dumping, More Entrainment, Even Temperature Distribution, Higher ADPI, and Better Ventilation Effectiveness
- · Steel; Standard White Finish

# **ACUTHERM Therma-Fuser Model ST-HC**

- · Lay-In Frame
- Disc Damper
- Separate Thermostat set points for VAV Heating and Cooling
- 1-Step Balancing Lever
- Adjustable Minimum Flow Valve
- Steel; Standard White Finish



MODULE SIZE	NECK SIZE
24x24	6"Ø, 8"Ø, 10"Ø, 12"Ø





MODULE SIZE	NECK SIZE
24x24	6"Ø, 8"Ø, 10"Ø, 12"Ø

Pressure relief collars (ARC) available for TF-HC and ST-HC.

# PERFORATED CEILING RETURNS

#### **TITUS Model PXP**

- · Lay-In Non-Ducted Perforated Panel
- Steel
- · Standard White Finish



NECK SIZE	CFM @ NC25+/-
12x12	350
24x12	1000
24x24	2000
48x24	4200

# TITUS Model PAR (square neck)

- · Lay-In Frame (Border Type 3)
- Steel
- · Standard White Finish



MODULE SIZE	NECK SIZE	CFM @ NC25+/-
12x12	10x10	350
24x12	22x10	1000
24x24	22x22	2000
48x24	46x22	4200

# **Titus TRAC Return Air Canopy**

- · Position above return grilles
- Reduces mechanical and occupant noise
- · Reduces visibility into the plenum
- · Galvanized steel construction
- Fiberglass Insulation



MODULE SIZE	
24x12	
24x24	

# Titus Model PAR (round neck)

- · Lay-In Frame (Border Type 3)
- Steel
- Standard White Finish

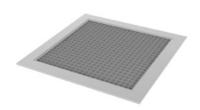


MODULE SIZE	NECK SIZE
24x24	6"Ø, 8"Ø, 10"Ø, 12"Ø, 14"Ø
24x24	16ӯ

# CUBE CORE & LOUVERED CEILING RETURNS

# **TITUS Model 50F**

- Lay-In Frame (Border Type 3)
- Cube Core A 1/2"x 1/2" x 1/2"
- · Aluminum Grid and Border
- · Standard White Finish



MODULE SIZE	NECK SIZE	CFM @ NC25+/-
12x12	10x10	500
24x12	22x10	1100
24x24	22x22	2500
48x24	46x22	5200

#### **TITUS Model 350RL**

- Lay-In Frame (Border Type 3)
- · 35° Deflection, 3/4" Blade Spacing
- Steel
- Standard White Finish



MODULE SIZE	NECK SIZE	CFM @ NC25+/-
24x12	22x10	900
24x24	22x22	1900

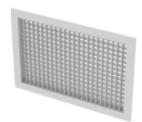




# SUPPLY GRILLES

#### **TITUS Model 300RS**

- Surface Mount Frame (Border 1)
- · Double Deflection
- 3/4" Blade Spacing
- Screw Holes
- Steel
- Standard White Finish



SIZE	CFM @NC25+/-
6x6	150
8x4	150
8x6	210
8x8	275
10x4	210
10x6	250
10x8	300
10x10	410
12x4	270
12x6	300
12x8	400
12x10	475
12x12	600
14x4	300
14x6	350
14x8	450
14x10	500
14x12	600
14x14	725

SIZE	CFM @NC25+/-
16x4	350
16x6	400
16x8	570
16x10	600
16x12	775
16x14	900
16x16	1000
18x4	400
18x6	450
18x8	600
18x10	700
18x12	850
18x14	1000
18x16	1120
18x18	1240

SIZE	CFM @NC25+/-
20x4	420
20x6	475
20x8	700
20x10	800
20x12	950
20x14	1100
20x16	1200
20x18	1300
20x20	1500
24x4	550
24x6	575
24x8	700
24x10	900
24x12	1900
24x14	1275
24x16	1475
24x18	1600
24x24	2000



# SPIRAL PIPE GRILLES

#### **TITUS Model US300FS**

- · Spiral grilles mount directly to the duct, eliminating the need for duct tape
- · Double deflection with 3/4" blade spacing
- Galvanized steel construction
- Mill finish
- · Universal end caps to match duct diameter from 10" through 36" in even increments
- · With ASD (Air Scoop Device) operable with Phillips head screwdriver for volume adjustment



NECK SIZE	CFM @NC25+/-
10x4	170
12x6	300
14x8	450
16x10	600

GRILLE HEIGHT	MIN: MAX/DUCT DIAMETER
4"	10":36"
6"	12":36"
8"	20":36"
12"	24":36"





# RETURN/EXHAUST GRILLES

# TITUS Model 350RL

- Surface Mount Frame (Border 1)
- · Fixed Single Deflection
- · 35° Deflection, 3/4" Blade Spacing
- · Screw Holes
- Steel
- Standard White Finish





SIZE	CFM @NC25+/-	
6x4	120	
6x6	150	
8x4	160	
8x6	200	
8x8	275	
10x4	200	
10x6	250	
10x8	340	
10x10	410	
12x4	250	
12x6	300	
12x8	400	
12x10	500	
12x12	600	
14x4	300	
14x6	350	
14x8	425	
14x10	550	
14x12	675	
14X14	830	

SIZE	CFM @NC25+/-
16x4	350
16x6	400
16x8	575
16x10	750
16x12	850
16x14	1000
16x16	1100
18x4	400
18x6	440
18x8	515
18x10	750
18x12	920
18x14	1100
18x16	1200
18x18	1400

SIZE	CFM @NC25+/-
20x4	400
20x6	500
20x8	650
20x10	875
20x12	1000
20x14	1150
20x16	1300
20x18	1450
20x20	1600
24x4	500
24x6	620
24x8	850
24x10	1000
24x12	1200
24x14	1400
24x16	1600
24x18	1750
24x20	1900
24x24	2250
30x24	2820
36x12	1800
36x24	3250

# RETURN/EXHAUST GRILLES

#### **TITUS Model 8F**

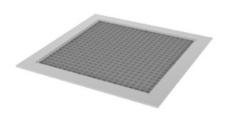
- Surface Mount Frame (Border 1)
- · Perforated Face
- Aluminum Face and Border
- Screw Holes
- Standard White Finish



NECK SIZE	CFM @NC25+/-
6x6	220
8x8	380
10x10	575
12x12	750
14x14	1000
16x16	1300
18x18	1600

#### **TITUS Model 50F**

- Surface Mount Frame (Border 1)
- · Cube Core A 1/2"x 1/2" x 1/2"
- Aluminum Grid and Border
- Screw Holes
- Standard White Finish



NECK SIZE	CFM @NC25+/-
6x6	175
8x8	350
10x10	500
12x12	725
14x14	1000
16x16	1300
18x18	1650

# DOOR GRILLES & FILTER GRILLES

#### **TITUS Model T-700L-AF**

- Surface Mount Frame (Border 1)
- Sight Proof Door Grille
- · Screw Holes
- Auxiliary Frame
- Steel
- · Aluminum Paint Finish



For use as a sight-proof wall or ceiling grille, discard auxiliary frame.

NECK SIZE	CFM @NC25+/-
12x12	200
18x12	350
18x18	425
24x12	400

## TITUS Model 350RLF1 Filter Grille

- · Lay-In Frame (Border Type 3)
- 1" Filter Frame (filters by others)
- Top Hinge and Quarter Turn Fasteners
- · 35° Deflection, 3/4" Blade Spacing
- Steel
- Standard White Finish



Mounting holes can be field drilled for surface mounting.

MODULE SIZE	NECK SIZE	CFM @NC25+/-
24x24	20x20	1600

# CEILING DIFFUSER & RETURN ACCESSORIES

# **TITUS Model AG95-S**

- For TDC Diffusers Only
- Galvanized Steel
- Mill Finish



NECK SIZE	
6x6	
9x9	
12x12	
15x15	
18x18	

#### **TITUS Model D-100**

- · Round Radial Damper
- Galvanized Steel
- Mill Finish



NECK SIZE
6"Ø
8"Ø
10"Ø
12"Ø
14"Ø

#### **TITUS Model AG 85**

- Round Butterfly Damper
- Steel
- Black Finish

NECK SIZE
16ӯ
18ӯ



# **TITUS Model TRM**

- Surface Mount T-Bar Frame
- Aluminum
- Standard White Finish

NECK SIZE
12x12
24x12
24x24
48x24



# **Model CR (not pictured)**

Cap Reducers

SIZE	ROUND
12ӯ	6", 8", 10"

# **Model TR**

- Square to Round Transition
- Galvanized Steel
- **Black Finish**



SIZE	ROUND
6x6	6"
8x8	6", 8"
9x9	6", 8"
10x10	6", 8", 10"
12x12	6", 8", 10", 12"
15x15	10", 12", 14"
18x18	12", 14", 16", 18"
22x10	6", 8", 10"
22x22	6", 8", 10",12",14",16",18", 20"

# GRILLE ACCESSORIES

#### **TITUS Model AG-15**

- Opposed Blade Damper
- For Use with 300/350 Grilles and Registers
- Slot Operated
- · Galvanized Steel
- Mill Finish





#### CALL 303.428.2800

For Pricing and To Order

SIZE
14x4
14x6
14x8
14x10
14x12
14x14
16x4
16x6
16x8
16x10
16x12
16x14
16x16

	SIZE
	18x4
	18x6
	18x8
	18x10
	18x12
	18x14
	18x16
	18x18
	20x4
	20x6
	20x8
	20x10
	20x12
	20x14
	20x16
	20x18
	2000
-	20x20

SIZE
22x10
22x22
24x4
24x6
24x8
24x10
24x12
24x14
24x16
24x18
24x24

# **TITUS Spray Paint**

- #26 Standard White
- Note: Spray paint can only be shipped by truck.
   (Pressurized spray paint cans cannot be shipped by USPS mail or UPS.)



12 oz can



# SPIN FITTINGS & FLEX DUCT TAPE

# **Model CSF**

- · Conical Spin-In Fitting for Metal Duct
- · Galvanized Steel
- Mill Finish



INLET SIZE
5ӯ
6"Ø
7ӯ
8"Ø
9ӯ
10"Ø
12"Ø
14"Ø
16"Ø

#### **Model CSFD**

- · Conical Spin-In Fitting for Metal Duct with Damper
- Galvanized Steel
- Mill Finish



INLET SIZE
6"Ø
8"Ø
10"Ø
12"Ø
14"Ø
16"Ø

# **Flex Duct Closure Tape**

- Specially designed to meet UL 181B-FX code
- 2 inch x 120 yard roll; twice the length of cloth duct tapes
- · Can be used on metal & metal connections
- Long-life CW<sup>®</sup> Acrylic Adhesive



SIZE

120 yard roll



# FLEXIBLE DUCT & DUCT CLAMPS

#### **THERMAFLEX Model KM**

- · Low and Medium Pressure Flexible Duct
- · R-6.0 Rated
- Polyester Film Fabric, Fiberglass Insulation
   Fiberglass Scrim Reinforced Metallized Polyester Film
- · Vapor Barrier



INLET SIZE
6"Ø
8"Ø
10"Ø
12"Ø
14"Ø
16"Ø

#### **THERMAFLEX Model M-KE**

- Acoustical Flexible Duct
- · R-6.0 Rated
- CPE Duct Liner, Fiberglass Insulation, Low Permeability Fiberglass
- · Vapor Barrier



INLET SIZE
6"Ø
8"Ø
10"Ø
12"Ø
14"Ø
16"Ø

# **Duct Clamps**

- Quick Release Clamp
- · Manganese Steel Bridge yellow zinc plated
- · Zinc plated Carbon Steel Screw
- Mill Finish



MODEL	FLEX SIZE	CLAMP MIN.	DIAMETER MAX.
DC0612	10"	6"	12"
DC1218	16"	12"	18"



# VAV BOXES & HOT WATER COILS

# **TITUS Model DESV**

- Single Duct Air Terminal
- 1/2" Titus EcoShield Natural Fiber Liner
- Standard AeroCross™ Multipoint Center
- · Standard 22-gauge Casing with Slip and Drive
- Basic Terminal (no controls)



CALL 303.428.2800

For Pricing and To Order

Optional Control Enclosure sold separately – controls by others





MODEL NUMBER	INLET SIZE	CFM RANGE	HEIGHT	WIDTH	LENGTH
DESV06	6"Ø	0 - 500	8"	12"	15 ½"
DESV08	8"Ø	0 - 900	10"	12"	15 ½"
DESV10	10"Ø	0 - 1400	12 ½"	14"	15 ½"
DESV12	12"Ø	0 - 2000	15"	16"	15 1/2"
DESV14	14"Ø	0 - 3000	17 ½"	20"	15 1/2"
DESV16	16"Ø	0 - 4000	18"	24"	15 1/2"

#### **TITUS VAV Hot Water Coils**

- · 1 Row or 2 Row
- 1/2" Copper Tubes
- Aluminum Ripple Fins, 10 Per Inch
- 20ga Galvanized Steel Casing
- Copper Male Solder Connections
- Connection is Slip and Drive to Ductwork
- · Prices Available for 1-Row and 2-row HW Coil



UNIT SIZE	HEIGHT	WIDTH	LENGTH	COIL CONNECTON
6"Ø	8"	12"	5"	1/2"
8"Ø	10"	12"	5"	7/8"
10"Ø	12 1/2"	14"	5"	7/8"
12"Ø	15"	16"	5"	7/8"
14"Ø	17 ½"	20"	7 ½"	7/8"
16"Ø	18"	24"	7 1/2"	7/8"

#### VAV CONTROLS

#### **TITUS DDC Controls**

- Titus Alpha Controller DT23
- · BACnet or Stand Alone Direct Digital Control
- · Pressure Independent
- Available for Cooling Only, Cooling with Reheat, or Fan Powered Applications
- Package Includes: Control Enclosure, Titus Alpha Controller/Actuator, 120/24v Control Power Transformer, Digital Display Room Sensor, and 25' Sensor-to-Controller Connector Cable



MODEL

Alpha DT23

#### **TITUS Pneumatic Controls**

- Titus II Pneumatic Controller
- Pressure Independent
- Includes Controller Cover
- Can Be Used with Direct Acting or Reverse Acting Thermostats (thermostats by others)
- Can Be Used For Normally Open or Normally Closed Terminals



MODEL

Titus II

# DAMPER ACTUATORS & ROUND VOLUME CONTROL DAMPERS

#### **BELIMO Model NFBUP(-S)**

- Multi-Voltage 24v up to 240v
- 90 in-lb Torque
- Spring Return
- · Manual Override
- Built-in Mechanical Limit
- (-S) Model Includes (2) SPST 3A (0.5A Inductive) Auxiliary Switches



MODEL
NFBUP
NFBUP-S

#### **POTTORFF Model CD-10R**

- Round Volume Damper
- Hand Quadrant Included
- Galvanized Steel



SIZE
6"Ø
8"Ø
10"Ø
12"Ø
14"Ø
16"Ø



# SQUARE & RECTANGULAR VOLUME CONTROL DAMPERS

# **POTTORFF Model CD-10**

- 10" High and Under: Single Blade Damper
- · Hand Quadrant Included on Both Models
- Galvanized Steel



#### **POTTORFF Model MD-42**

- 12" High and Over: Opposed blade damper
- · Hand Quadrant Included on Both Models
- Galvanized Steel



SIZE
6x6
8x6
8x8
10x6
10x8
10x10
12x6
12x8
12x10
12x12
14x6
14x8
14x10
14x12
14x14

SIZE	
16x6	
16x8	
16x10	
16x12	
16x14	
16x16	
18x6	
18x8	
18x10	
18x12	
18x14	
18x16	
18x18	

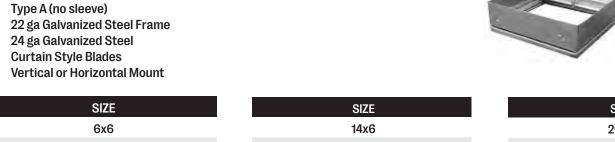
SIZE
20x6
20x8
20x10
20x12
20x14
20x16
20x18
20x20
24x6
24x8
24x10
24x12
24x14
24x16
24x18
24x20
24x24



# FIRE DAMPERS

#### **POTTORFF Model VFD-10D-A**

- 1-1/2 Hour Rated Fire Damper
- 165°F UL Listed Fusible Link



SIZE
6x6
6x8
8x6
8x8
8x10
10x6
10x8
10x10
10x12
12x6
12x8
12x10
12x12
12x16

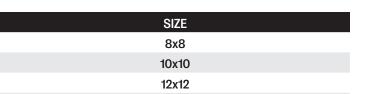
SIZE
14x6
14x8
14x10
14x12
14x14
14x18
16x8
16x10
16x12
16x14
16x16
16x20
18x8
18x10
18x12
18x14
18x16
18x18
18x22

SIZE
20x8
20x10
20x12
20x14
20x16
20x18
20x20
22x10
22x22
24x8
24x10
24x12
24x14
24x16
24x18
24x20
24x24

# FIRE/SMOKE DAMPERS

# **POTTORFF Model FSD172**

- 1-1/2 hour Rated Fire/Smoke Damper
- UL 555S Leakage Class 2
- 120 VAC, Power-open, Spring-close Actuator
- DRS-30 Dual Temp. Fire Closure Device (165 deg primary, 250 deg secondary)
- PI-50 Dual Indicator Switch Package
- 16" Long x 20 ga sleeve
- **Vertical or Horizontal Mount**
- Single-sided Retaining Angles



14x14

#### **Fire Damper Accessories**

MODEL	
165° Fusible Link	
212° Fusible Link	





# **DELTA BREEZ Model Sig80-110**

- 80/110 CFM Exhaust Fan
- Energy efficiency at 15.3 CFM/Watt
- ENERGY STAR® qualified with innovative brushless DC motor technology
- · Perfectly quiet operation at less than 0.3 Sones
- · Full speed adjustable, 80 or 110 CFM
- · Includes 6" to 4" Duct Reducer
- · LED indicator light will be green when power is on



MODEL	WEIGHT
Sig80-110	10 lbs.



# Performance Data\*: Model Sig80-110

MODEL NUMBER		6" DUCT ST	TANDARD	
Static Pressure (inches w.g.)	0.1	0.25	0.1	0.25
Air Flow (CFM)	80	80	110	110
Sones	<0.3	0.5	<0.3	0.8
Power Consumption (Watts)	6.2	9.9	8.2	14.1
Energy Efficiency (CFM/Watts)	15.4	9.0	15.3	8.7
Current (Amps)		0.381	Max	
Power Rating (V/Hz)		120/	80	

\*PERFORMANCE SHOWN FOR ALL FANS IS PUBLISHED CATALOG DATA AND HAS NOT BEEN CORRECTED FOR ALTITUDE.



#### **COOK GCVF 100 and GCVF 180**



- Ceiling mounted, direct driven, centrifugal exhaust fans
- Vari-Flow® ultra-efficient EC motors meet the efficiency needs of demand-based ventilation systems
- EC motors by themselves are more efficient than PSC motors
- Permanently lubricated electronically commutated variable speed motor with built-in electronic overload protection and disconnect plug
- · White, high impact styrene injection molded grille



MODELS	PLASTIC GRILLE SIZE	WEIGHT
100 &180	13-1/4" x 15-1/2"	13 lbs.



# Performance Data\*: Model GCFV100

RPM						6" DUCT S	STANDARD					SONES
IAF IVI		0.000	0.100	0.125	0.250	0.375	0.500	0.625	0.750	0.875	1.000	SUNLS
950		123	118	115	100	87	xx	xx	xx	xx	xx	1.2
800	CFM	108	96	92	75	xx	xx	xx	xx	xx	xx	0.4
650	CF	88	72	67	xx	xx	xx	xx	xx	xx	xx	
500		68	47	40	xx	xx	xx	xx	xx	xx	xx	

<sup>\*</sup> FAN MAX RPM = 1000.

PERFORMANCE SHOWN FOR ALL FANS IS PUBLISHED CATALOG DATA AND HAS NOT BEEN CORRECTED FOR ALTITUDE.



#### Performance Data\*: Model GCFV180

RPM						6" DUCT S	STANDARD					SONES
IVLIAI	0.000         0.100         0.125         0.250         0.375         0.500         0.625         0.750         0.875         1.0						1.000	SOIVES				
1500		260	255	250	240	235	220	210	200	175	160	6.0
1250	<b>∑</b>	220	210	208	200	185	165	155	130	xx	xx	4.5
1000	CF	175	165	160	145	120	95	xx	xx	xx	xx	3.0
750	00 50 00	105	90	85	65	xx	xx	хх	xx	xx	xx	1.1

<sup>\*</sup> FAN MAX RPM = 1675.

PERFORMANCE SHOWN FOR ALL FANS IS PUBLISHED CATALOG DATA AND HAS NOT BEEN CORRECTED FOR ALTITUDE.



#### **COOK 100 Series**

- · Ceiling mounted, direct driven, centrifugal exhaust fans
- All fan models 2 speed motors, with permanent split capacitor, permanently lubricated sealed bearings
- Fan wheel housing and integral outlet duct collar injection molded from a specially engineered resin exceeding UL 705 requirements for smoke and heat generation
- · Outlet duct aluminum backdraft damper with continuous aluminum hinge rod
- · Centrifugal forward curved type wheel, injection molded of polypropylene resin
- Performance certified is for Installation Type B: Free Inlet, Ducted Outlet
- AMCA certified ratings Seal for Sound and Air Performance
- Plastic grille





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MODELS	PLASTIC GRILLE SIZE	SHIPPING WEIGHT
126-128	13-1/4" x 15-1/2"	13 lbs.
146-148	13-1/4" x 15-1/2"	15 lbs.
166-168	13-1/4" x 15-1/2"	15 lbs.
186-188	13-1/4" x 15-1/2"	16 lbs.

#### Performance Data\*: Models 100

MODEL	DDM	CFM/WATT	0.0	SP	.100	SP	.125	SP	.250	) SP	.375	5 SP	.500	) SP	.625	5 SP	.720	) SP	.87!	5 SP	1.00	0 SP
MODEL	RPM	@ 0.1 SP	CFM	SONES	CFM	SONES	CFM	SONES	CFM	SONES	CFM	SONES	CFM	SONES	CFM	SONES	CFM	SONES	CFM	SONES	CFM	SONES
GC-126	550	2.5	70	0.3	53	0.3	48	0.3	32	0.7												
GC-128	750	2.8	94	0.8	82	0.9	79	0.9	63	1.0	49	1.3	37	2.0								
GC-146	900	2.9	114	1.2	105	1.2	103	1.2	90	1.3	77	1.5	64	2.0	50	2.5	36	3.0				
GC-148	1075	3.1	152	2.5	144	2.5	142	2.5	132	2.5	120	2.5	108	3.0	94	3.0	78	3.5	56	3.5		
GC-166	1100	3.1	164	3.0	157	3.0	155	3.0	145	3.0	133	3.0	119	3.0	105	3.0	88	3.5	66	3.5	40	3.5
GC-168	1160	3.0	180	3.5	173	3.5	171	3.5	162	3.5	150	3.5	136	4.0	121	4.0	105	4.5	86	4.5	54	5.0
GC-186	1100	2.4	231	5.5	226	5.5	225	5.5	218	5.5	209	5.5	199	5.0	186	5.0	170	5.0	151	5.0	129	4.5
GC-188	1450	2.2	261	7.0	254	6.5	252	6.5	244	6.5	235	6.0	223	6.0	209	6.0	191	5.5	172	5.5	150	5.5

\*PERFORMANCE SHOWN FOR ALL FANS IS PUBLISHED CATALOG DATA AND HAS NOT BEEN CORRECTED FOR ALTITUDE.

Model GC-128 Energy Star Certified. Performance rating for GC-222 through GC-960 include the effects of inlet grille and backdraft damper. Speed (RPM) shown is nominal. Performance is based on actual speed of the test. The sound ratings shown are loudness values in spherical sones at 5 ft. (1.5m) in a spherical free field calculated per AMGA Standard 301. Value shown for Installation Type B: Free inlet spherical sone levels.

#### **COOK 300-700 Series**

- · Ceiling, wall, or inline mounted, direct drive, centrifugal exhaust fan.
- · All fan models 2 speed motors, with permanent split capacitor, permanently lubricated sealed bearings
- · Fan housing minimum 20 gauge galvanized steel and acoustically insulated.
- Blower and motor assembly shall be mounted to a minimum 14 gauge reinforcing channel and shall be easily removable
- Outlet duct collar includes reinforced aluminum damper with continuous aluminum hinge rod and nylon bushings.
- · Centrifugal forward curved type wheel, constructed of galvanized steel.
- · Performance certified is for Installation Type B: Free Inlet, Ducted Outlet.
- · UL 705 listed, AMCA certified ratings Seal for Sound and Air Performance, and ENERGY STAR® certified.
- · Plastic grille is standard on models 322-342; Powder-painted, white steel grille models 422-740.





MODEL	HOUSING SIZE	OUTLET SIZE	STEEL GRILLE SIZE	SHIPPING WEIGHT
322-342	12-3/8" x 9-3/4"	8" x6"	15-1/2" x 13-1/4"	25 lbs.
422	17" x 11-7/8"	8"x6"	21" x 14-1/4"	30 lbs.
522-542	17" x 11-7/8"	8"x6"	21" x 14-1/4"	32 lbs.
622-642	17" x 11-7/8"	10-1/2" x 4-3/4"	21" x 14-1/4"	35 lbs.
720-740	17" x 11-7/8"	10-1/2" x 4-3/4"	21" x 14-1/4"	36 lbs.

# Performance Data\*: Models 300-700

MODEL	DDM	CFM/WATT	0.0	SP	.100	SP	.125	SP	.250	) SP	.379	5 SP	.500	O SP	.62	5 SP	.720	) SP	.87!	5 SP	1.00	0 SP
MODEL	RPM	@ 0.1 SP	CFM	SONES	CFM	SONES	CFM	SONES	CFM	SONES	CFM	SONES	CFM	SONES	CFM	SONES	CFM	SONES	CFM	SONES	CFM	SONES
GC-322	1600	3.2	204	4.0	191	4.0	187	4.0	165	3.5	139	3.5										
GC-342	1725	3.0	268	5.0	252	5.0	248	4.5	224	4.5	195	4.5	153	4.5								
GC-422	1500	2.8	308	4.0	298	4.0	295	4.0	282	4.0	267	4.5	250	4.0	223	4.0						
GC-522	1400	2.7	213	1.5	208	2.0	207	2.0	201	2.0	194	2.5										
GC-542	1600	2.9	391	5.5	380	5.5	377	5.5	361	5.5	340	5.5	314	5.5	285	5.5	248	4.5				
GC-622	1400	3.3	501	3.5	486	3.5	482	3.5	461	3.0	433	3.0	392	3.0	339	3.0						
GC-642	1500	3.1	602	5.0	582	4.5	576	4.5	548	4.5	512	4.0	471	4.0	421	3.5	350	3.5				
GC-720	1375	2.4	709	5.5	687	5.5	682	5.5	653	5.5	619	5.0	578	5.0	535	5.0	480	4.5	385	4.5		
GC-740	1625	2.2	852	7.0	823	7.0	815	7.0	775	6.5	727	5.0	672	6.0	616	5.0	552	4.5	463	4.0	303	3.5

\*PERFORMANCE SHOWN FOR ALL FANS IS PUBLISHED CATALOG DATA AND HAS NOT BEEN CORRECTED FOR ALTITUDE.

Performance certified is for Installation Type B: Free Inlet, Ducted Outlet. Performance rating for GC-222 through GC-740 include the effects of inlet grille and backdraft damper. Speed (RPM) shown is nominal. Performance is based on actual speed of the test. The sound ratings shown are loudness values in spherical sones at 5 ft. (1.5m) in a spherical free field calculated per AMGA Standard 301. Value shown for Installation Type B: Free inlet spherical sone levels.



# DIRECT DRIVE ROOF FANS

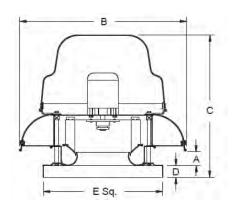
# **COOK Model ACED-EC**

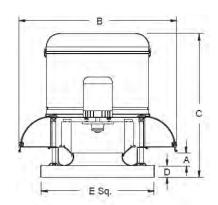
- · Spun aluminum, roof-mounted, direct-driven, downblast centrifugal exhaust ventilator, with electronically commutated motor.
- · Aluminum base with continuously welded curb cap corners for maximum leak protection.
- · Discharge baffle with rolled bead for added strength.
- · Integral conduit chase throughout the curb cap and into the motor compartment to facilitate wiring connections.
- Motor enclosed in a weather-tight compartment, separated from the exhaust airstream, with permanently lubricated sealed bearings and furnished at the specified voltage, phase and enclosure.
- · Centrifugal backward inclined wheel, constructed of 100% aluminum, including a precision machined cast aluminum hub.
- · UL 705 listed, AMCA certified ratings seal for sound and air performance.



MODEL	А	В	С	D	E SQ.	ROOF OPENING SQUARE*	SHIPPING WEIGHT
100	2-1/2"	18-3/4"	16-13/16"	2	18	13-1/2"	30 lbs.
120	1-7/16"	28-7/16"	26-9/16"	2	20	15-1/2"	67 lbs.
135	1-15/16"	28-7/16"	27-1/16"	2	20	15-1/2"	72 lbs.

Model 100 Model 120-135







# DIRECT DRIVE ROOF FANS

# Performance Data\*: Model ACED-EC

MODEL	DD14	TIP	MAX	0.00	)"SP	.125	"SP	.25	"SP	.375	"SP	0.5	"SP	0.63	3" SP	0.75	"SP	0.88	"SP					
HP	RPM	SPEED	WATTS	SONES	WATTS	SONES	WATTS	SONES	WATTS	SONES	WATTS	SONES	WATTS	SONES	WATTS	SONES	WATTS	SONES	WATTS					
	7	1233	_	24	47		•																	
	471	12;	=	0.2	11																			
ပ	889	2327	32	46	66	3	45	12	20															
100C17DEC 1/4 HP	88	23	က	3.6	32	2.9	27	2.5	18															
00C 1/4	1307	3421	92	68	85	6	07	5:	22	4	14													
<del>-</del>	5	34	_	7.9	73	7.3	74	6.9	72	6.6	67													
	1725	4517	160	90	04	8	45	78	35	7:	21	6!	52	56	39	46	35	32	29					
	17	4	7	10.6	159	10.3	160	10.0	159	9.7	156	9.4	152	9.3	146	8.9	132	8.1	112					
									I		I													_
MODEL	RPM	TIP SPEED	MAX WATTS	0.00	"SP	.125	"SP	.25"	'SP	.375	"SP	0.5	'SP	0.63	"SP	0.75	"SP	0.88	"SP	1.0'	'SP	1.25	"SP	_
HP		SPLLD	WAITS	SONES	WATTS	L																		
	498	1564	5	50	)6																			
	4	#	ı'	0.9	13																			
ပ္ပ	907	2849	59	92	21	8	13	68	39															
120C17DEC 1/2 HP	6	28	77	4.5	52	4.5	56	4.1	59															
20C 1/2	1316	4134	162	133	37	12	65	118	38	110	)4	10	19	91	16	76	88							
-	<u> </u>	4-1	=	00	4.44	0.0	440	0.7	45.4	0.4	450	0.4	450	0.7	100	0.0	150							

MODEL .		TIP	MAX	0.00	)"SP	.125	"SP	.25	"SP	.375	"SP	0.5	"SP	0.63	3" SP	0.75	"SP	0.88	"SP	1.0'	"SP	1.25	"SP	1.5'	'SP		
HP	RPM	SPEED	WATTS	SONES	WATTS																						
	7.5	32	2	8	52	6	32								1												
	561	1982	32	2.0	29	1.7	32																				
o	6.	24	54	54	54	14	41	13	26	119	98	10	46														
135C17DEC 3/4 HP	949	3354	124	6.4	107	6.4	116	6.2	122	5.8	124																
35C1 3/4	37	4725	9	20	)31	19	50	18	67	17	79	16	84	15	82	14	67	13	21								
<del>''</del>	1337	47	326	12.7	278	12.7	292	12.7	304	12.5	314	12.2	321	11.9	325	11.5	326	11.2	319								
155	96	35	26	20	25	58	24	95	24	31	23	65	22	95	22	23	21	47	20	68	18	92	16	52			
	1725	9609	685	18.6	583	18.6	601	18.6	618	18.6	634	18.5	648	18.3	660	18.1	670	17.8	677	17.5	683	16.9	685	16.3	663		

9.8 148

9.8 | 141 |

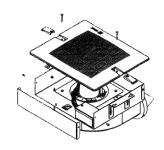
9.7 | 154 | 9.4 | 159 | 9.1 | 159 | 8.7 | 162 | 8.3 | 159

14.6 304 14.6 314 14.6 314 14.5 332 14.3 339 14.1 345 13.8 349 13.5 352 13.2 353 12.6 348 12.6

<sup>\*</sup>PERFORMANCE SHOWN FOR ALL FANS IS PUBLISHED CATALOG DATA AND HAS NOT BEEN CORRECTED FOR ALTITUDE.

# CEILING, ROOF AND WALL FAN ACCESSORIES

# **Conversion Kits (Inline Adaptors)**



ADAPTER MODEL	FOR FAN MODELS
GC/GN	100 Series

# **Hanging Isolation Kits for Ceiling Fans**

ISOLATOR KIT	FAN MODEL/LOAD RATING	THREADED ROD
ISOZ	All GC Models	1/4"
HSI Spring	50#	1/2"
HRI (Rubber in Shear)	25#	1/2"

# **Ceiling Exhaust Fan Accessories**

DESCRIPTION	MODEL	FOR FAN MODELS
Variable Speed Switch	SSC6	All GC Models
Cooling Thermostat	CSTAT	All GC Models

# **Control Options for Direct Drive Fans**

CONTROL	MODEL	FOR FAN MODELS
Cooling Thermostat	CSTAT	Models with up to 3/4 HP 120/1/60 motors

## **Roof Curbs for Direct Drive Fans**



CURB MODEL*	NAILER OD	FOR FAN MODELS	CURB HEIGHT
UCG16	16.5" X 16.5"	ACED-EC 100	18"
UCG18	18.5" X 18.5"	ACED-EC 120-135	18"
UCG22	22.5" X 22.5"	ACED-EC 150-165	18"

<sup>\*</sup>Damper shelf not included

# **Gravity Backdraft Dampers**



DAMPER MODEL	DAMPER OD	FOR FAN MODELS
BDD1212	12" X 12"	ACED-EC 100
BDD1414	14" X 14"	ACED-EC 120-135

# MOTOR STARTERS

# FRANKLIN CONTROLS Model BAS-1P

- 1Ø Building Automation Starter
- · 1/10 1 HP
- · 110V ~ 2 40V
- · Adjustable 1-16A Class 10 Electronic Overload
- NEMA 1 Enclosure

MODEL	DESCRIPTION
BAS-1P	Single Phase, Magnetic Motor Starter







# SOLARONICS INFRARED HEAT REPLACEMENT PARTS

# **Airflow Switchers** (Call for availability for the specific model number you need.)

# MODEL

Airflow Switches are available for the most common MTS & ST models.

#### **Blower Assemblies**

MODEL	P/N
MC Series 2007 to Present	132294
MTS Series Burners	232031
ST-40-10 to ST-60-20 (86-1999)	130938
ST-40-10 to ST-60-20 (> 2007)	132294

MODEL	P/N
ST-65-2/3/4 to ST-100-3/4/5 (86-97)	130938
ST-65-2/3/4 to ST-125-4/5 (> 1997)	132294
ST-65-20/25 MBN to ST-85-20/25 MBN (> 1995)	132294
ST-130-200 MBTUH (>1990)	132294

# **Ignition Parts**

MODEL	P/N
3-Prong Electrode with Gasket	132724-1
IDC Ignition Detection Control 115v	132823
IDC Ignition Detection Control -Stage	233006

# **Gas Valves**

MODEL	P/N
ST-40 to ST-60 / MBL only	132927
ST-65 to ST-125 / MBN	132915
ST-130 to ST-200	132893
2-Stage Gas Valve	002-42-169

#### Accessories

MODEL	P/N
Elbow GQ 90 Degree	132446-SW
End Cap Reflector (GQ Models only)	132692
Hanger	132852
Inlet Collar	132306-1
Reflector 5' Long	132709
Reflector 10' Long	132708
Thermostat - Single Stage	132026-4
Thermostat - 2-Stage 24v (MTS or K-Series 2-stage Heaters)	0002-42-156
Thermostat - NEMA 4X 115/24v "Y" Coupler 4x4x5" for two systems on one thermostat vent (GQ or MTSA only)	132486
Tube Clamp - Burner coupler kit for connecting burner and first tube	144150-1
"Y" Coupler 4x4x5" for two systems on one thermostat vent (GQ or MTSA only)	130823

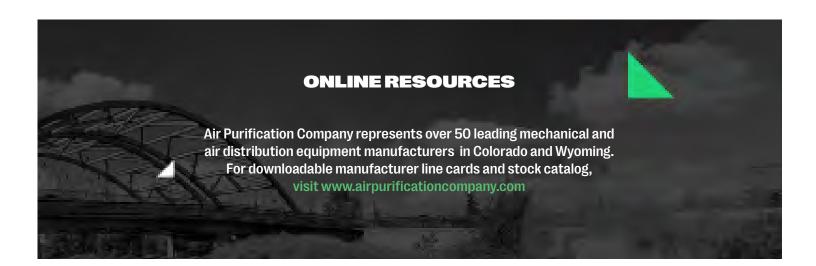
# **K-Series Parts**

MODEL	P/N
3-Prong Ignitor	0002-42-144
Gas Valve for DQSAN/QSAL 24v only	0001-22-059
Gas Valve for DSAN/DSAL 115v only	0001-22-055
Heat Shield for K-70 thru K-100	00K2-10-005-1

MODEL	P/N
IDC Box for DSAN/DSAL 115v	0001-22-046
IDC Box for DSAN/DSAL 24v	K-05-0470
K Head (ceramic complete assembly)	000K-10-033
Transformer/Relay	0002-42-119

# **TERMS & CONDITIONS**

- 1. Standard Air Purification Company (APCo) terms and conditions of sale apply.
- 2. Contact APCo for a copy of these terms and conditions.
- 3. All pricing is subject to change without notice. Credit card purchases are subject to processing fees.
- 4. Equipment model and manufacturer is subject to change.
- 5. All pricing is FOB our warehouse and does not include tax.
- 6. Applicable taxes will be charged unless proof of current tax-exempt certificates and licenses is provided.
- 7. Shipments and deliveries are subject to the approval of APCo credit department. Full or partial payment in advance may be required. APCo reserves the right to hold shipment and deny pick-up of equipment for past due accounts.
- 8. All items are subject to prior sale. While APCo strives to maintain reasonable quantities of all stock items, there is no guarantee that all items in this catalog are in stock at all times. APCo is not responsible for delays or quick ship costs due to out of stock items.
- 9. Equipment will not be held without a valid purchase order. Material not claimed in fourteen (14) calendar days will be returned to stock.
- 10. Orders shipped from the warehouse will be sent via UPS or common carrier. Freight charges will be added to the order invoice. All shipments are FOB our warehouse. Customer is responsible to inspect shipments for damage and file claims with the carrier.
- 11. Equipment may be returned only with prior approval by APCo and is subject to a 25% restock charge.
- 12. Returned product must be in new condition and in undamaged original packaging.
- 13. Return freight charges must be pre-paid. Freight collect shipments will be refused.
- 14. Manufacturers standard warranty applies to all products.
- 15. APCo is not responsible for costs incurred replacing parts or equipment under warranty.



# THE AIR PURIFICATION COMPANY 303.428.2800 | AIRPURIFICATIONCOMPANY.COM

# **WAREHOUSE LOCATION & HOURS**

1861 West 64th Lane, Denver, Colorado 80221 Open weekdays 7:00 am to 4:00 pm MTN. Easy access off Pecos Street in Denver from I-76 or US-36.

Order by phone, fax or email. Shipping or delivery services available to shop or jobsite for an additional cost.

# **CONTACT US**

Questions? Need pricing? Email us or give us a call.

Phone (303) 428-2800

warehouse@airpurificationcompany.com