



Sizing & Selection

# TECHNICAL INFORMATION

In the interest of continuing product improvement, we reserve the right to change models, specifications, and/or features without prejudice.

PROJECT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 ARCHITECT: \_\_\_\_\_  
 ENGINEER: \_\_\_\_\_  
 CONTRACTOR: \_\_\_\_\_  
 DATE: \_\_\_\_\_ SALES ENGINEER: \_\_\_\_\_

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## SUGGESTIONS ONLY PRODUCT SIZING AND SELECTION

- A. Determine vehicle type and exhaust pipe discharge locations. (Under Chassis or Vertical Stack)
- B. Select proper hose diameter for the vehicle determined. Suggest using 4" hose for autos, vans, and small trucks. Suggest using 5" and 6" hose for larger trucks.
- C. Select CFM requirements for the type of vehicles determined: Suggest using 200-300 CFM for autos, vans, and small trucks. Suggest using 500-600 CFM for larger vehicles.

**NOTE:** Many facilities do not always run the vehicles at idle. The above listed CFM will allow for a 20% increase in RPM with adequate air volume, if based on the high CFM listed. Please consult the factory if higher RPM will be used by the customer.

- D. Once the CFM has been determined, please consult the graph in the catalog for the static pressure calculations based on the hose diameter, hose length, and CFM required. The graph will give you the static pressure loss for the exhaust removal drop.
- E. A **suggested** formula for central duct static pressure loss can be based upon the following information: Calculate the length of the main duct from the fan to the end of the duct and multiply the length by .006. This calculation gives the **approximate** loss in the main duct. Calculate the number of bends in the main duct and multiply this by .020. Add the drop loss, main loss, and bend loss and you will have the **estimate** on the system static pressure loss.
- F. Select the fan based upon the total amount of drops multiplied by the CFM per drop. Check the fan graph for the fan to give you the CFM you require at the given static pressure that you have calculated.
- G. To assist in sizing the main duct, the following may be used. Begin with the furthest drop from the fan.

0-450	CFM	6"	2301-3500	CFM	14"
451-800	CFM	8"	3501-4700	CFM	16"
801-1500	CFM	10"	4701-5900	CFM	18"
1501-2300	CFM	12"	5901-6600	CFM	20"

Connecting duct from reel is 6". Whenever possible, it is **recommended** to use an air flow sweep when connecting the 6" duct from the reel to the main duct.

OVERHEAD EXHAUST SYSTEMS



Conventional Overhead Exhaust System

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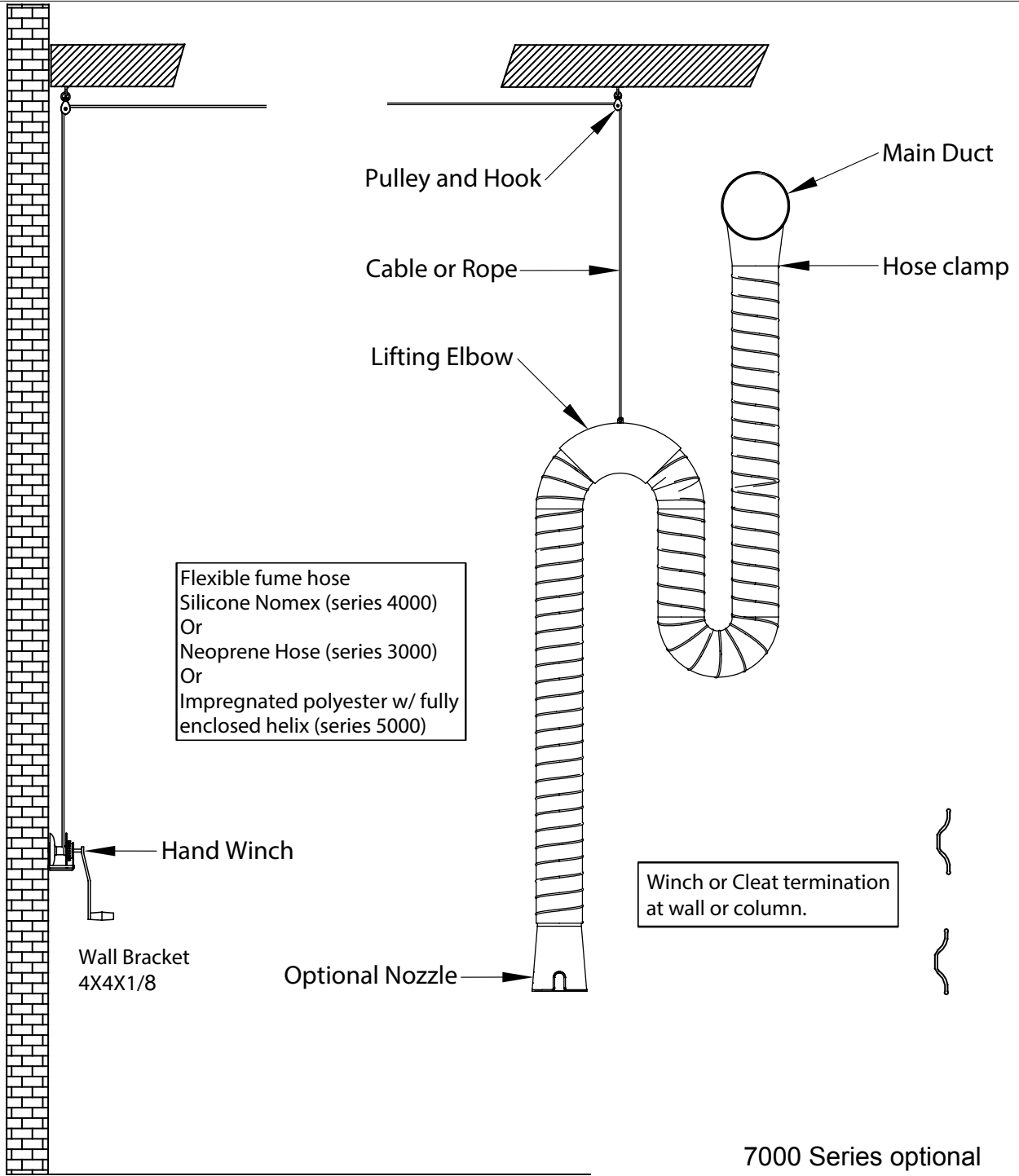
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OVERHEAD EXHAUST SYSTEMS



Flexible fume hose  
 Silicone Nomex (series 4000)  
 Or  
 Neoprene Hose (series 3000)  
 Or  
 Impregnated polyester w/ fully enclosed helix (series 5000)

Winch or Cleat termination at wall or column.

7000 Series optional consult factory for pricing

Provided With: \_\_\_\_\_ Diameter \_\_\_\_\_ Feet/Hose \_\_\_\_\_ Series Hose



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DISCONTINUED PRODUCT:

Series WRS, Winch Retracting System

OVERHEAD EXHAUST SYSTEMS

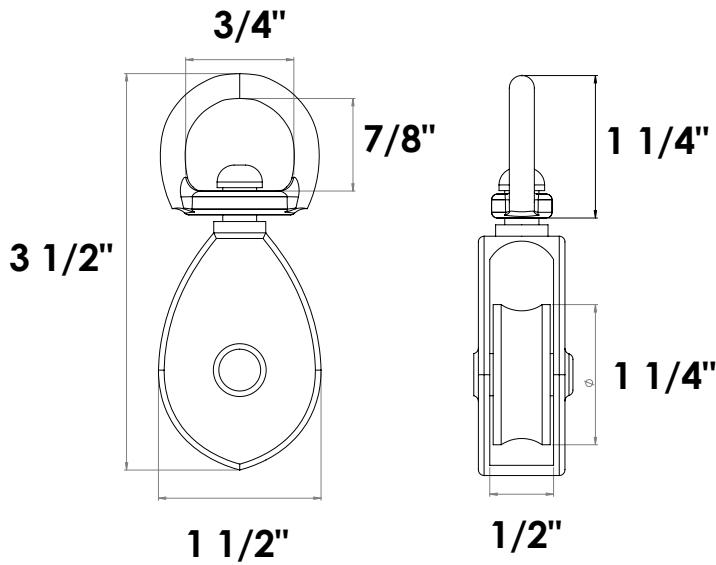
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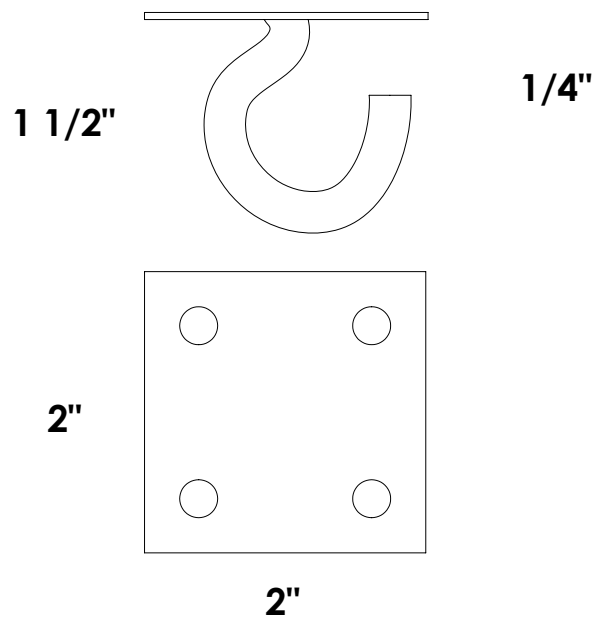
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 CONTRACTOR: \_\_\_\_\_  
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**PU-KIT-R**

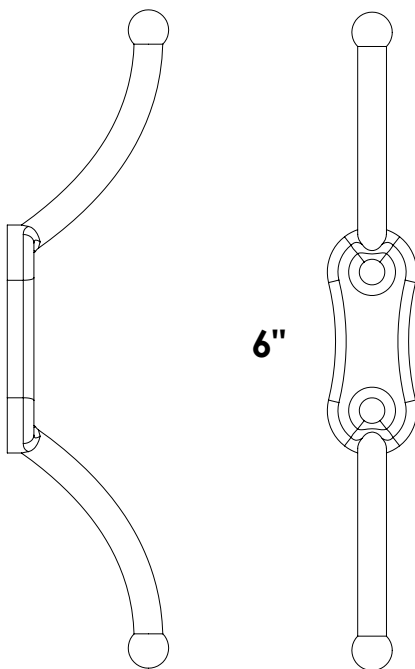
**23857 Pulley**



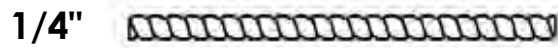
**23861 Pulley Mounting Hook**



**23858 Wall Cleat**



**23859 Multi-Filament  
Polypropolyene Cord - 750 lbs.  
Breaking Strength**



**TECHNICAL  
INFORMATION**

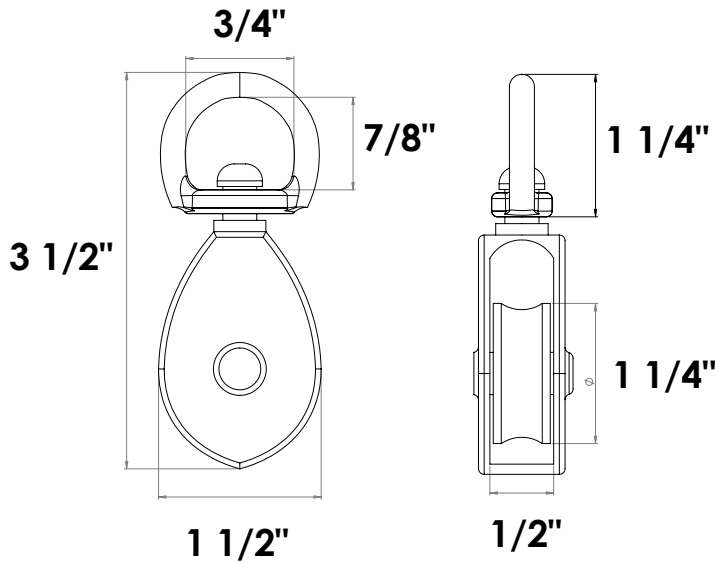
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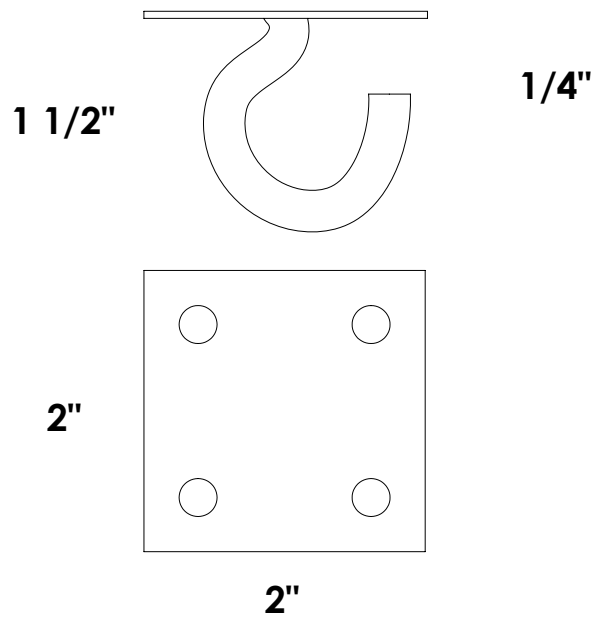
OVERHEAD  
EXHAUST SYSTEMS

**PU-KIT-W**

**23857 Pulley**



**23861 Pulley Mounting Hook**

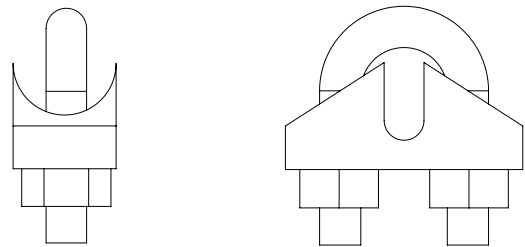


**23873 Cable**

**Galvanized Aircraft Cable  
920 LBS Breaking Strength**



**41007 - 1/8" Pleated Cable Clamp**



*Please see other pages in this section for additional  
components for the PU-KIT-W*

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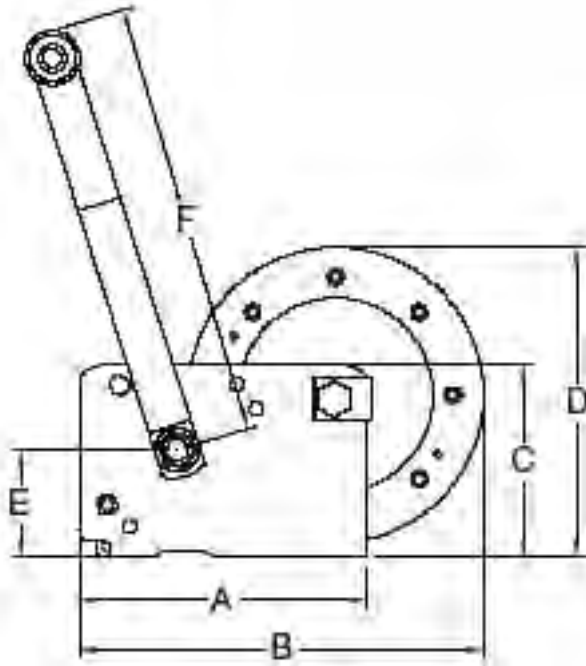
**Series 23860-01**

**PU-KIT-W**

\* The winch handle (at right) may  
be replaced with a rubber wheel.

Recommended Maintenance:

1. Apply a few drops of automo-  
tive engine oil to ratchet pawl  
pivot, brushings, and shaft  
threads under drum.
2. Check for proper ratchet oper-  
ation as follows: when cranking  
cable in, a loud clicking sound  
should be heard, when cranking  
cable out, the clicking sound  
should not be heard and the  
ratchet pawl should be fully  
engaged into the ratchet gear  
teeth.



OVERHEAD  
EXHAUST SYSTEMS

A	B	C	D	E	F
5.50"	5.50"	4.25"	5.56"	2.94"	11.00"

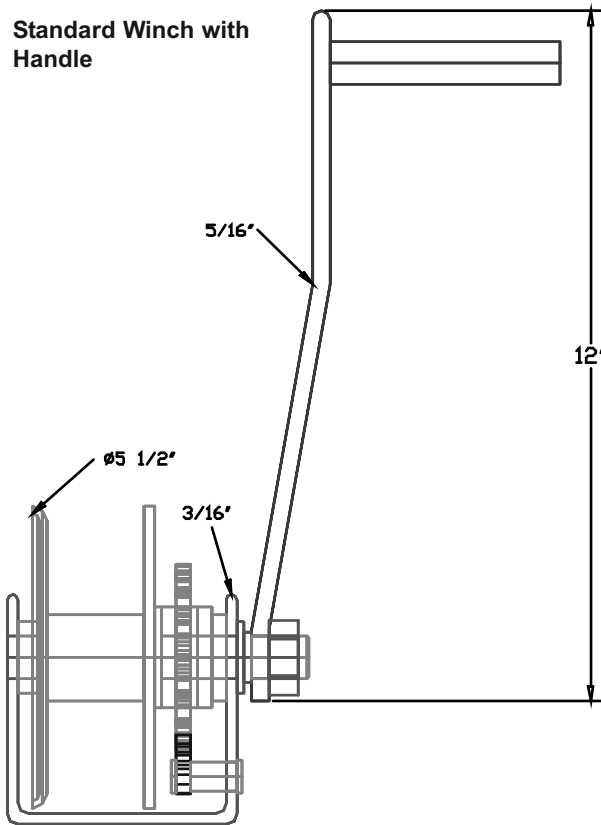
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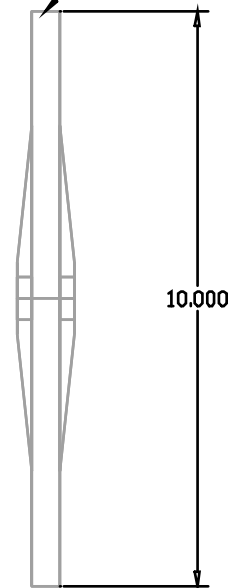
**HAND WINCH MODEL 23860-01**

Gear Ratio: 1:1; Strength: 600 lbs.; Plating: Zinc; Brake: Self-Activating Automatic

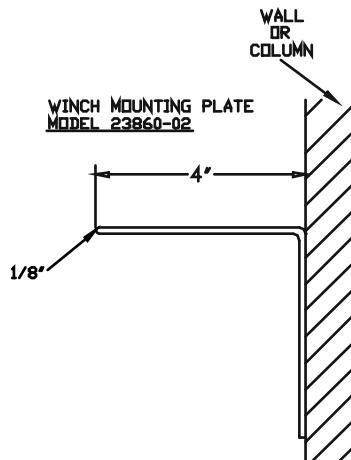


**PU-KIT-W**

Optional Rubber Wheel  
(Replaces Handle on Winch)



**Winch Mounting Plate**



OVERHEAD  
EXHAUST SYSTEMS



Conventional Overhead  
Fabric Hose  
Lifting Elbows

## TECHNICAL INFORMATION

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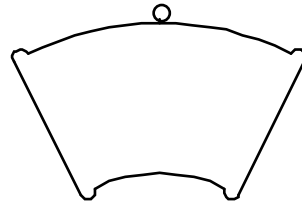
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### LIFTING ELBOWS FOR SUPPORTING FABRIC HOSE FROM OVERHEAD

Lifting elbow for use with 3000/4000/5000/7000 Series hose.

<u>Part Number</u>	<u>Fabric Hose</u>
LE-40	4"
LE-50	5"
LE-60	6"
LE-80	8"

**Closed Eye**



**CONSTRUCTION:** Short radius die-formed 24-gauge galvanized steel, large diameters available upon request.

\*Optional lifting elbow sizes available up to 24", consult factory.

\*Optional Stainless Steel & Aluminum construction available, consult factory.

OVERHEAD  
EXHAUST SYSTEMS



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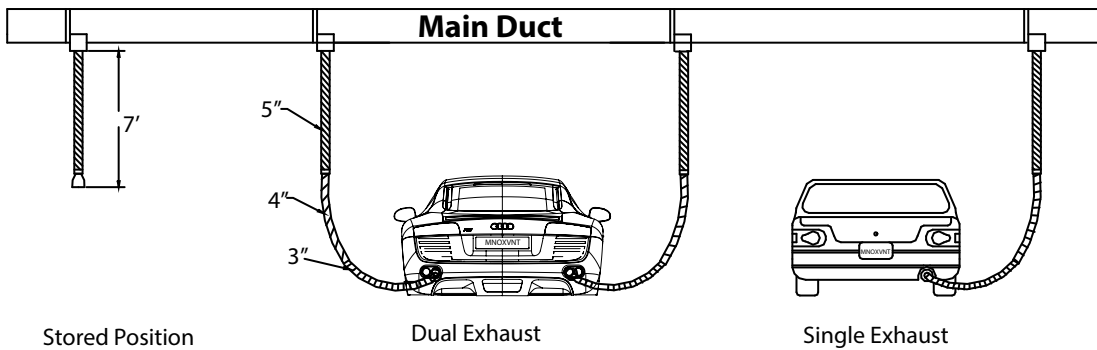
**RETRACTABLE TELESCOPING SYSTEM (RTS-543)**

The RTS (Retractable Telescoping System) offers three tiers of hose retraction. The system, mounted to duct, features an overhead storing concept. The RTS does not require lifting accessories.

The three-tier concept allows for different lengths of tubing to store one inside the other. The system is supplied with a highly visible red wear strip for safety; on the upper section of tubing. The center and upper sections of tubing are constructed of a light weight material, however the center section does not feature the red wear strip. The lower section is constructed of no-crush neoprene, allowing for years of user friendly service. The construction process creates a light weight system (only 19 pounds, including duct saddle) that is extremely durable.

The RTS is 7' long in its stored position (see below). Main duct work is generally hung at a height of 13-14 feet. The RTS is provided with an adjustable length duct saddle that allows for easy height adjustment. The RTS's neoprene nozzle easily attaches to both single and side-by-side vehicle exhaust systems. As shown (below) the RTS can be installed to handle both single and dual exhaust vehicles, without need for additional attachments.

The nozzle is supplied with holding hooks, which connect to the fitting at the end of the 5" hose. In the stored position, the 4" and 3" sections of hose slide into the principle 5" section. By releasing the holding hooks, the RTS-543 may be deployed and attached to the vehicle.



**Product Breakdown**

**Hose:** 5" & 4" Sections are Constructed of Smooth Bore Lightweight Tubing; 3" Tubing is Constructed of No-Crush Neoprene

**Model:** RTS-543 Consists Of:  
 6'-6" x 5" Hose  
 6' x 4" Hose

5' x 3" Hose  
 Oval Nozzle  
 Stainless Steel Duct Saddle  
 Spring Damper (Optional)

**Nozzle:** Series 23827  
 All Neoprene Oval Mouth Adapter

OVERHEAD EXHAUST SYSTEMS

**TECHNICAL INFORMATION**

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**RETRACTABLE TELESCOPING SYSTEM (RTS-543)**

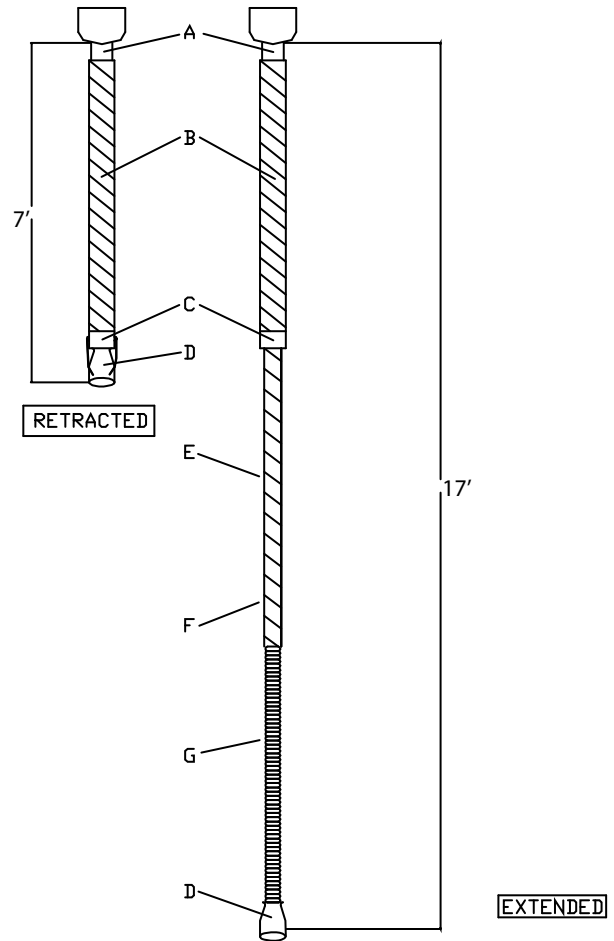
The RTS-543 (Retractable Telescoping System - 543) is an overhead self storing vehicle exhaust extraction system. The RTS-543 is shipped fully assembled and consists of three hoses. Hose assembly are supplied with built in stops, ensuring that the hoses will not separate. Hose-G inserts into Hose-E and both hoses (G & E) insert into Hose-B for final storage.

The RTS-543 is supplied with the 23827, 4" neoprene oval mouth nozzle. This nozzle will fit both single and twin side-by-side vehicle exhaust systems. The 23827 may also be supplied with an optional (SHD) spring hinged damper.

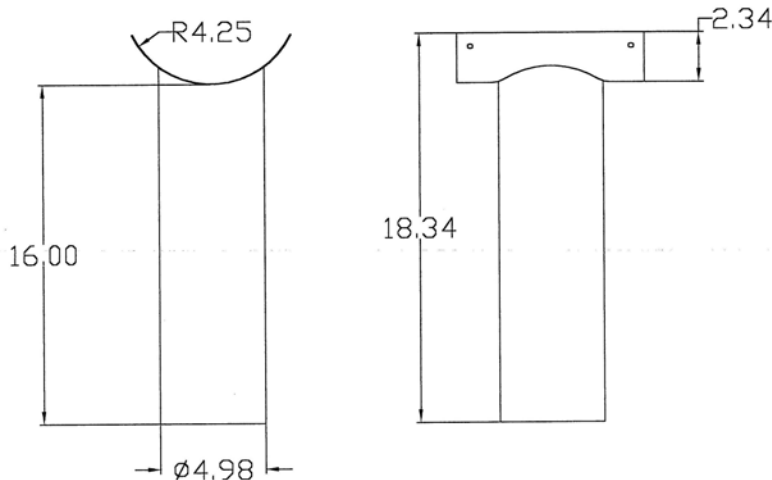
The RTS-543 is designed for service conditions up to 150 cfm @ 4" s.p.

**Component List:**

- A - Stainless Steel, 5" x 15" Saddle Assembly
- B - 6'-6" x 5" Smooth Bore Hose with High Visibility Red Stripe
- C - Lower Stainless Steel Hose Stop with Holding Slots
- D - 23827 No-Crush Neoprene Oval Mouth Nozzle with Storage Hooks and Chains
- E - 6'x4" Smooth Bore Hose
- F - Hose Stop for Lower Hose Assembly
- G - 5'x3" No-Crush Hose



**8" Duct Saddle Assembly**



\*Saddle drawing shown for 8" duct connection. Consult factory for other options available.

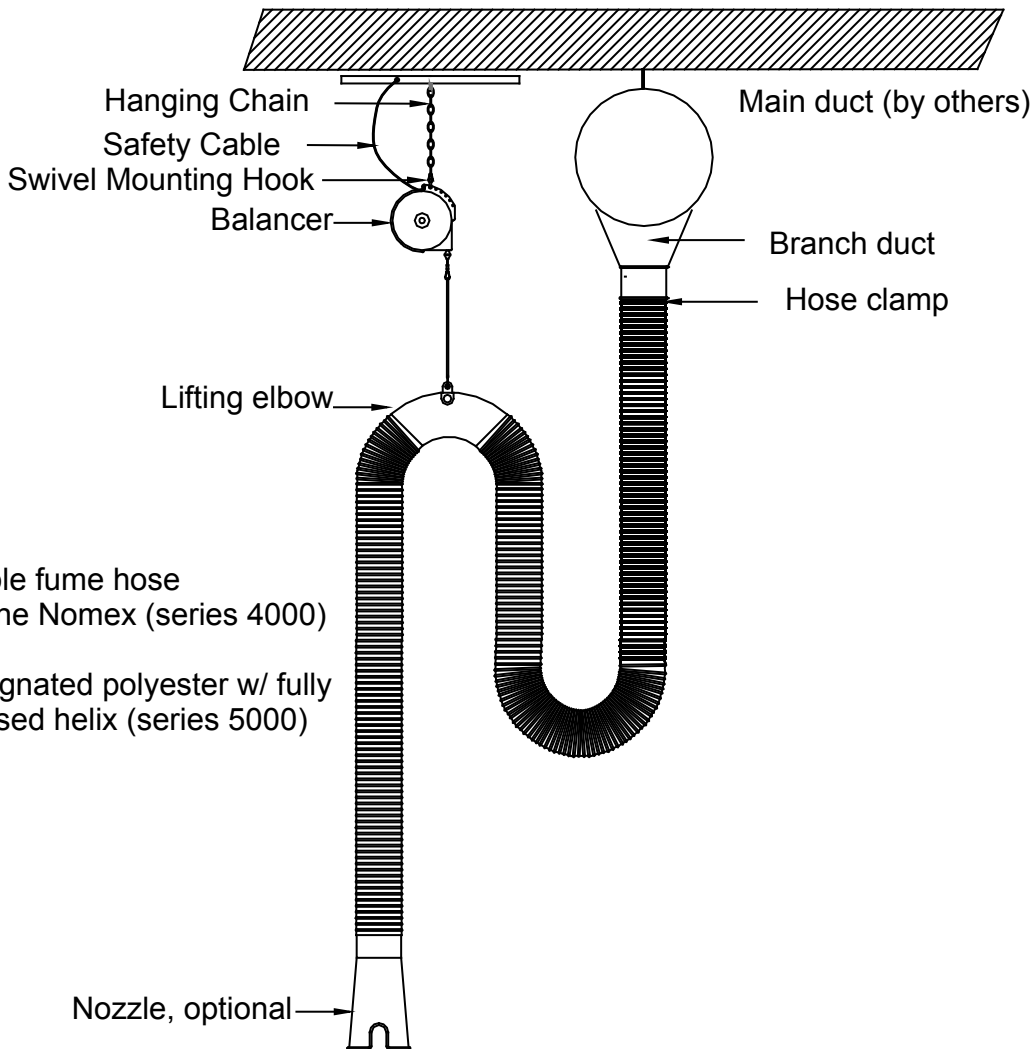
OVERHEAD EXHAUST SYSTEMS

**TECHNICAL  
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**SERIES - 11000-D**



**NOTE:** Series 4000/5000 Hose - Standard  
 Series 7000 - Optional consult factory for pricing

**NOTE:** 11000-D System is to be attached to a rigid overhead duct. Overhead duct to be supplied by others. Balancer will require a supporting structure located closest to the hose to the duct connection as possible. Maximum height of balancer mounting is at the point of hose to duct connection.

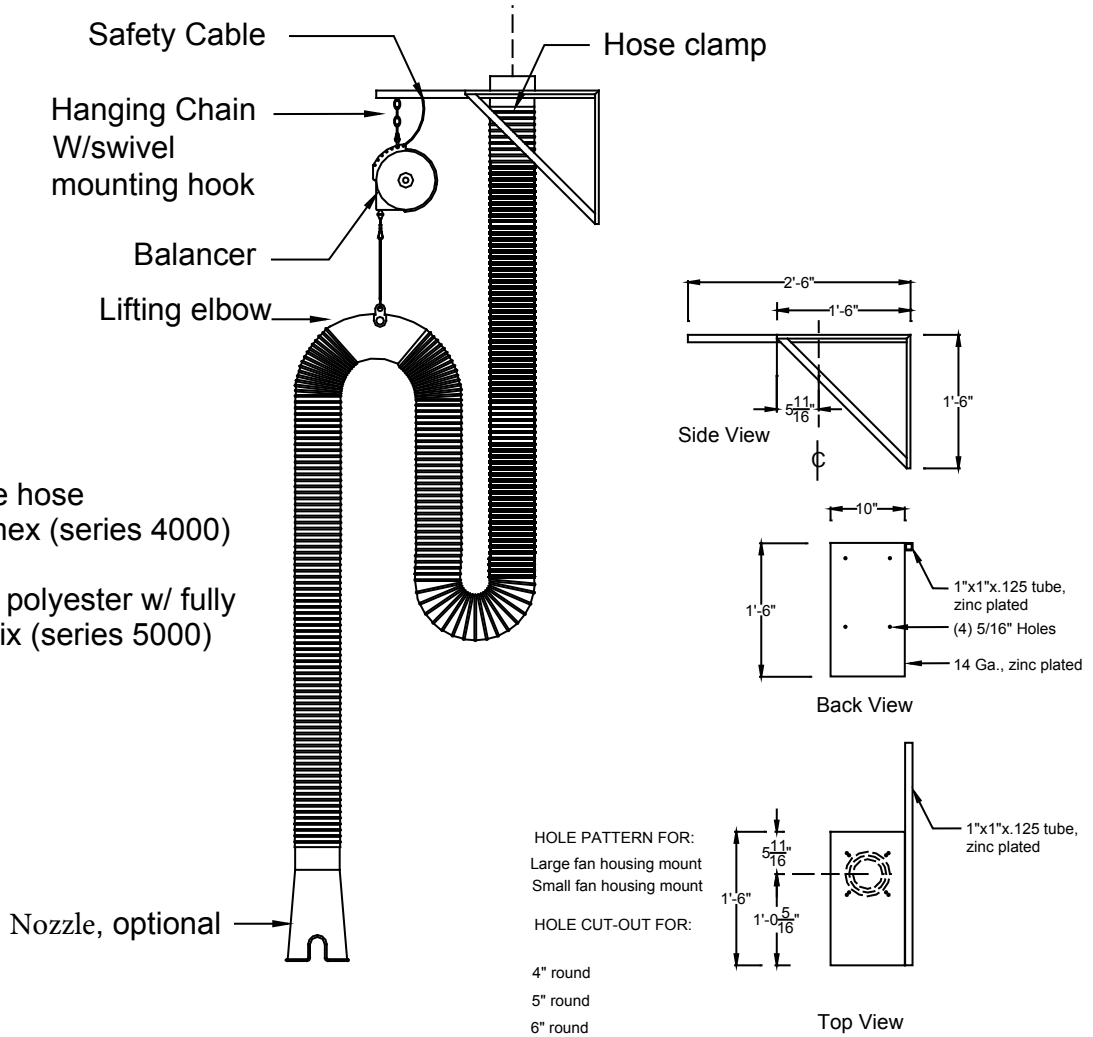
Provided With: \_\_\_\_\_ Diameter \_\_\_\_\_ Feet/Hose \_\_\_\_\_ Series Hose

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**SERIES - 11000-MB**



**NOTE:** 11000-MB System is supplied with a Mounting Bracket (as shown)  
 4000/5000 Series hose is standard  
 7000 Series optional consult factory for pricing  
 Hose is supplied in the following diameters: 4", 5", and 6"  
 Hose is supplied in the following lengths: 16', 20', and 24'

Provided With: \_\_\_\_\_ Diameter \_\_\_\_\_ Feet/Hose \_\_\_\_\_ Series Hose

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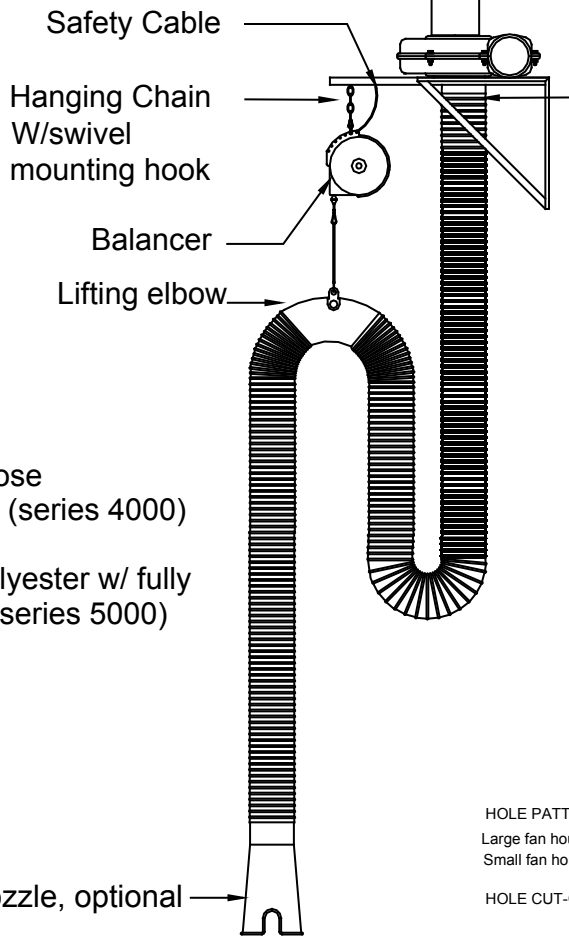
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OVERHEAD  
EXHAUST SYSTEMS

**SERIES - 11000-FMB**

D-series Blower TEFC motor - Inlet transition to hose is included. Fan discharge: Front, side and rear



Flexible fume hose  
Silicone Nomex (series 4000)  
Or  
Impregnated polyester w/ fully enclosed helix (series 5000)

Nozzle, optional

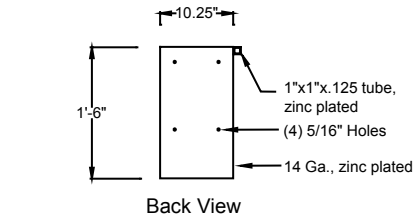
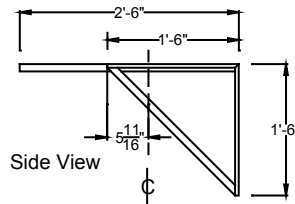
Standard Motors are Baldor with TEFC Enclosure. Standard Motors are UL UR Recognized as a component and CSA Certified in Canada.

The D Series fans are not UL Listed or CSA Certified as an assembly.

Motor specifications subject to change without notice.

The construction is Silumin (Silicon Aluminum Alloy) for the housing and the wheel.

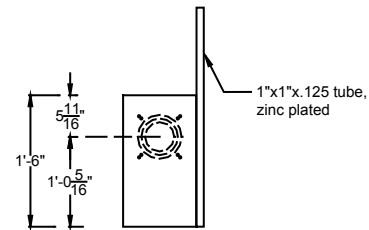
Hose clamp



HOLE PATTERN FOR:  
Large fan housing mount  
Small fan housing mount

HOLE CUT-OUT FOR:

- 4" round
- 5" round
- 6" round



Top View

NOTE: Fan HP for hose diameter follows:

4" Diameter Hose	0.5 HP Fan, D05, 1 PH standard
5" Diameter Hose	1.0 HP Fan, D10, 1 PH standard
6" Diameter Hose	1.5 HP Fan, D15, 1 PH standard

**NOTE:** 11000-FMB System is supplied with a Mounting Bracket (as shown) and Fan. See D Series Blower catalog pages for fan selection. 4000/5000 Series hose standard (7000 series hose available by request). Hose is supplied in following diameters: 4", 5", and 6" Hose is supplied in following lengths: 16', 20', and 24'

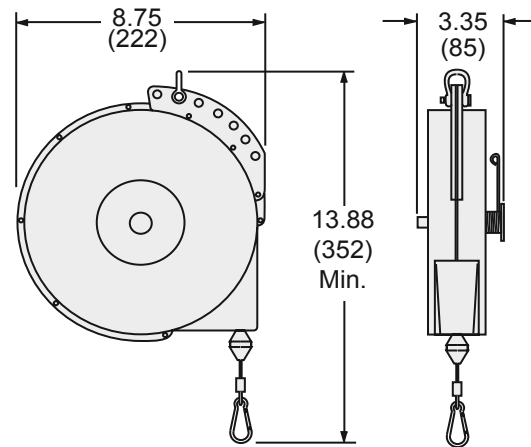
Provided With: \_\_\_\_\_ Diameter \_\_\_\_\_ Feet/Hose \_\_\_\_\_ Series Hose

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### MODEL BAL-T



All Dimensions in INCHES (mm)

#### Standard Features of the BAL-T:

- A. Lock Mechanism to Permit Operator to Stop at Desired Position
- B. Slight Pull on Cable to Release Stop Lock
- C. An "off" Switch to Disengage the Lock Mechanism
- D. External Tension Adjustment Provides Fast and Easy Fine Tuning
- E. 15 Ft. of 3/32" Diameter Steel Cable and Adjustable Cable Stop
- F. Snap Hook, Multi-Directional Cable Guide, Forge Clevis Top Mount
- G. Automatic Safety Lock (spring fails then drum automatically locks)
- H. Safety Chain
- I. Maintenance Free and is Lifetime Lubricated at Factory
- J. Lifting Capacity of 15 Pounds

\* For further details please refer to manual and parts list.

**TECHNICAL  
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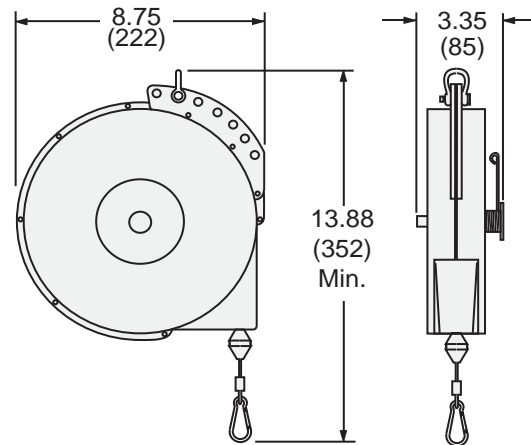
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**MODEL BAL-T-HD-8**

All Dimensions in INCHES (mm)

**Standard Features of the BAL-T-HD-8:**

- A. Lock Mechanism to Permit Operator to Stop at Desired Position
- B. Slight Pull on Cable to Release Stop Lock
- C. An "off" Switch to Disengage the Lock Mechanism
- D. External Tension Adjustment Provides Fast and Easy Fine Tuning
- E. 8 Ft. of 3/32" Diameter Steel Cable and Adjustable Cable Stop
- F. Snap Hook, Multi-Directional Cable Guide, Forge Clevis Top Mount
- G. Automatic Safety Lock (spring fails then drum automatically locks)
- H. Safety Chain
- I. Maintenance Free and is Lifetime Lubricated at Factory
- J. Lifting Capacity of 25 Pounds

\* For further details please refer to manual and parts list.

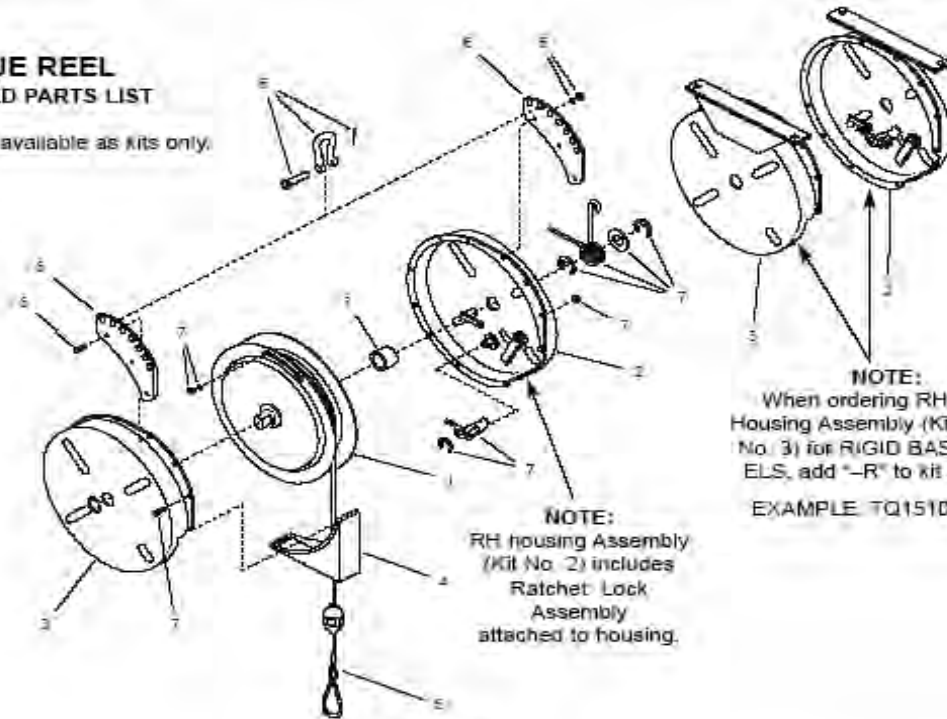
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**TORQUE REEL  
ILLUSTRATED PARTS LIST**

Replacement parts available as kits only.



**NOTE:**  
RH housing Assembly (Kit No. 2) includes Ratchet Lock Assembly attached to housing.

**NOTE:**  
When ordering RH or LH Housing Assembly (Kit No. 2 or No. 3) for RIGID BASE MODELS, add "-R" to kit number.

EXAMPLE: TQ1510-K02-R

**TORQUE REEL**

**REPLACEMENT PARTS KITS**

REF. NO.	KIT NUMBER:			KIT DESCRIPTION
	Series-1507	Series-1510	Series-1515	
1	TQ1507-K01	TQ1510-K01	TQ1515-K01	SPRING MOTOR ASS'Y: Spring Motor, Spool, Shaft & Bushings in sealed canister.
2	TQ1507-K02*	TQ1510-K02*	TQ1515-K02*	RH HOUSING ASS'Y: RH Housing Half, Ratchet Lock Ass'y (attached to housing).
3	TQ1507-K03*	TQ1510-K03*	TQ1515-K03*	LH HOUSING ASS'Y: LH Housing Half, Nameplate.
4	TQ1507-K04	TQ1510-K04	TQ1515-K04	CABLE GUIDE
5	TQ1507-K05	TQ1510-K05	TQ1515-K05	CABLE ASS'Y: Cable, Safety Clip, Lockwasher-M4, Hex Nut-M4.
6	TQ1507-K06	TQ1510-K06	TQ1515-K06	HANGING BRACKET ASS'Y: Hanging Bracket, Clevis, Clevis Pin, Cotter Pin, Slotted Machine Screw M14 x 14mm (3), Lockwasher-M4 (3), Hex Nut-M4 (3)
7	TQ1507-K07	TQ1510-K07	TQ1515-K07	HARDWARE PACKAGE: Spacer, Torsion Spring, Slotted Machine Screw M4 x 14mm (3), Slotted Machine Screw M4 x 8mm (6), Lockwasher-M4 (10), Hex Nut-M4 (10), Retaining Ring (3), Shim, Extension Spring, Ratchet Lock Assembly

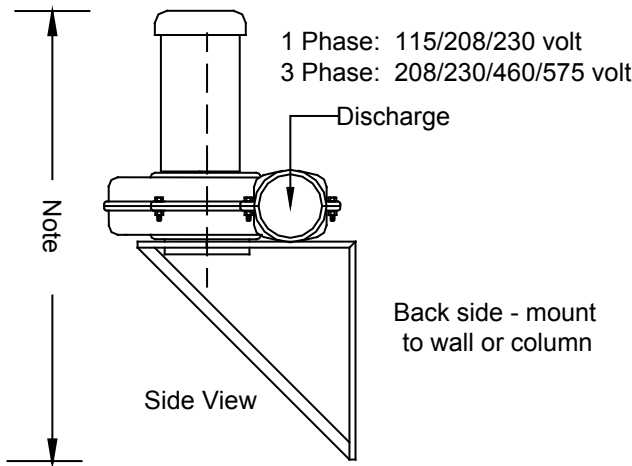


**TECHNICAL  
INFORMATION**

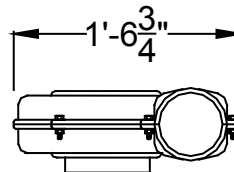
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**MOUNTING BRACKET - TYPE NS**



Back side - mount  
to wall or column



Large Housing



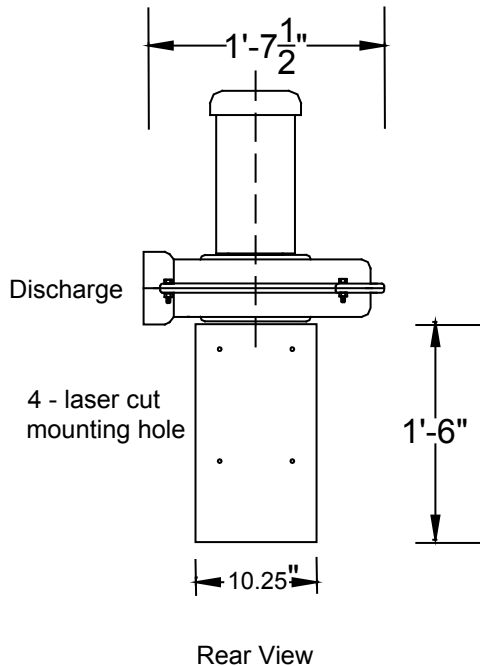
Medium Wheel



Small Housing



Small Wheel



NOTE: Blower can be rotated (360 degrees) in 90 degree increments, allowing for discharge from front, either side and rear as required for site conditions.

NOTE: The inlet can be supplied with multiple inlet fittings.

NOTE: See Fan Section for Fan Performance and dimensional information.

FAN BRACKET: Formed 14 GA. steel, reinforced with 1"x1"x.125 tube and nickel coated.

Standard Motors are Baldor with TEFC Enclosure. Standard Motors are UL UR Recognized as a component and CSA Certified in Canada.

The D Series fans are not UL Listed or CSA Certified as an assembly.

Motor specifications subject to change without notice.

The construction is Silumin (Silicon Aluminum Alloy) for the housing and the wheel.

\* Please contact factory with your given application.



Series D  
Blower Performance

## TECHNICAL INFORMATION

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### BLOWER PERFORMANCE CFM RATINGS AT LISTED SP

Model	HP	1"	2"	3"	4"	5"	6"	7"	DBA at 5'
D075-SS	.75	475	430	365	300	240	---	---	85
D10-SS	1.0	578	510	387	323	282	205	---	83
D15-LS	2.0	1200	1150	1000	810	670	400	---	86
D20-LM	3.0	1280	1250	1200	1120	970	830	700	86
D30-LM	3.0	1350	1310	1270	1200	1050	865	735	86

\* **Note:** Standard Motors are Baldor with TEFC Enclosure. Motor - 3450 RPM. Standard Motors are UL UR Recognized as a component and CSA Certified in Canada.

The D Series Fans are not UL Listed or CSA Certified as an assembly.

Motor specifications subject to change without notice.

The construction is Silumin (Silicon Aluminum Alloy) for the housing and the wheel.

--- = Unstable operation

**1 Phase:  
115/208/230 Volt**

**3 Phase:  
208/230/460/575 Volt**

**\*D30 Available in 3 Phase only**



Pivoting Boom Arm  
Technical Data

## TECHNICAL INFORMATION

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### TECHNICAL DATA: PIVOTING BOOM ARM

#### **BA & SB Pivoting Swivel Boom Extensions**

The pivoting boom extension is designed as a one piece pivoting rigid extension. Many different accessories may be mounted directly on the end of the BA and SB boom. The BA and SB is supplied with a pivoting wall/column bracket constructed of a one piece die formed 3/8" industrial steel plate. The main horizontal boom section is of a truss type design using 2" heavy gauge tubular steel. The top and bottom horizontal sections are welded together in three locations using vertical tubular sections. The end of the BA and SB is supplied with a welded heavy gauge steel tear drop mounting plate.

This plate ring is pre-drilled to allow for the connection of many of the optional end accessories for easy and quick field assembly. The BA and SB extension boom is supplied with the hard duct supported on the top side of the boom by duct cradles. A 90° elbow is supplied to connect the hard duct to the angle ring and also to make the connection at the mounting location of the boom to either a fan or to a duct branch leading to a central fan. The BA and SB boom is available in three lengths: 7', 10', and 13'. The duct diameter on top of the boom is a standard 6". Please consult factory for other diameters and applications. The BA and SB are supplied with an industrial grade black powder coating for longevity.

#### **PAC - Pivoting Articulating Crane Arm**

The Pivoting Articulating Crane (PAC) is designed to allow the end of the crane and its accessories to be positioned at any point within its extended radius length. The PAC has a full pivoting wall/column bracket with a center pivoting joint, which allows the PAC to swivel, fold, and create a scissor effect at the center joint.

The wall/column mount bracket is constructed of a one piece, die formed, 3/8" industrial steel plate. The first section of the PAC horizontal extension is constructed of 4" x 2" tubular steel. The second section of the PAC horizontal extension is constructed of 4" x 2" tubular steel.

The two horizontal sections are joined together by grade 8 bolts and hardware to allow for easy and free movement of the two sections. The PAC is supplied with two hard duct sections that sit on duct cradles on the top side of each of the horizontal sections. The PAC is supplied with two sections of flexible hose. One flexible hose section connects the two hard duct sections at the middle pivot joint and the second flexible hose is for connection of the first hard duct section to either a fan inlet or to a hard duct branch leading to a central fan.

The PAC is supplied with the following lengths: 10', 15', and 20'. The PAC is supplied in the following diameters: 4", 5", 6", or 8". Larger diameters are available, please consult factory. The PAC is supplied with industrial grade black powder coating with yellow safety strips.

OVERHEAD  
EXHAUST SYSTEMS



Pivoting Crane Arms  
Swivel Boom Extensions  
BA/SB/PAC Static Pressure

## TECHNICAL INFORMATION

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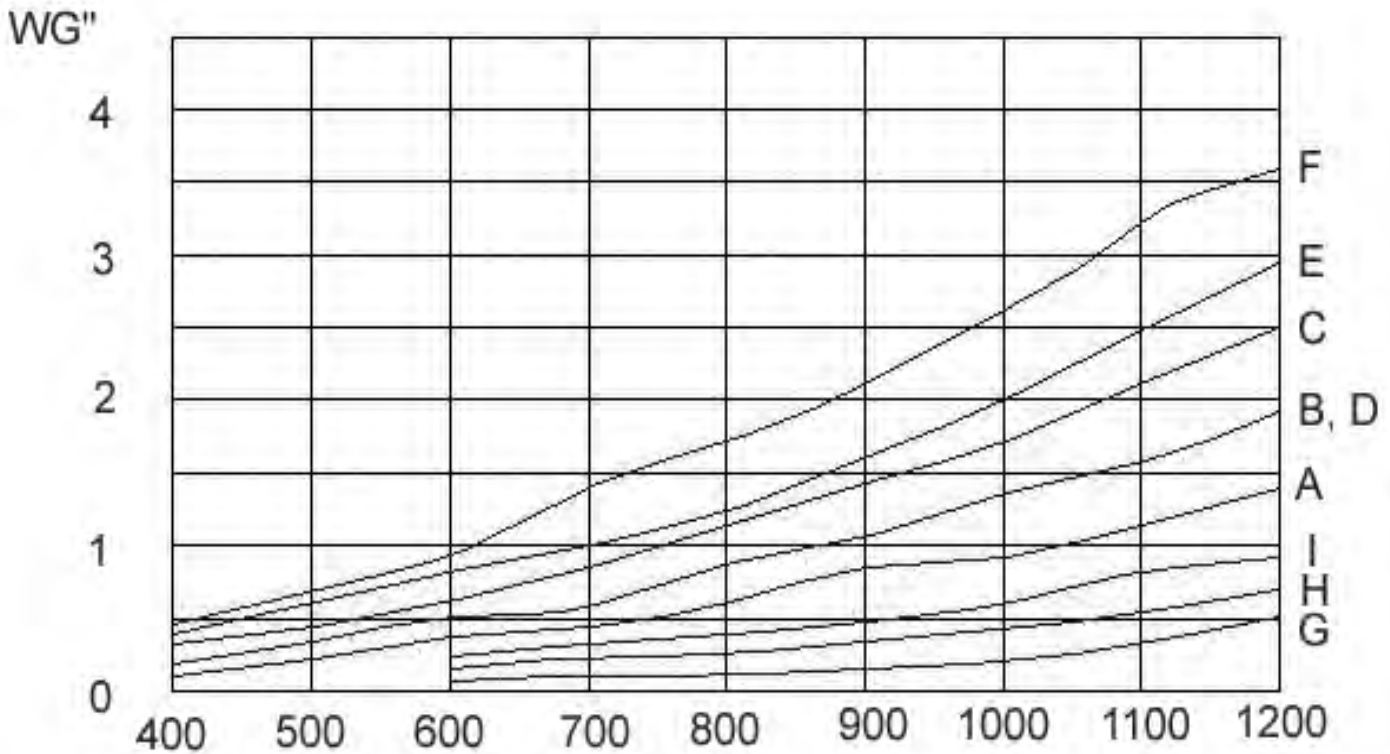
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### STATIC PRESSURE GRAPH

Letter	Model	Description
A	SB-7/BA-7	7' x 6" Swivel Boom and Boom for Arm
B	SB-10/BA-10	10' x 6" Swivel Boom and Boom for Arm
C	SB-13/BA-13	13' x 6" Swivel Boom and Boom for Arm
D	PAC-10	10' x 6" Pivoting Articulating Crane
E	PAC-15	15' x 6" Pivoting Articulating Crane
F	PAC-20	20' x 6" Pivoting Articulating Crane
G	PAC-10-8	10' x 8" Pivoting Articulating Crane
H	PAC-15-8	15' x 8" Pivoting Articulating Crane
I	PAC-20-8	20' x 8" Pivoting Articulating Crane

The pressure loss may vary in the PAC, because the PAC has a center pivot joint that allows the PAC to fold. The graph takes into consideration a moderate center joint bend. The graph is for dual loss of the boom and crane. The additional loss of the end accessory needs to be added.



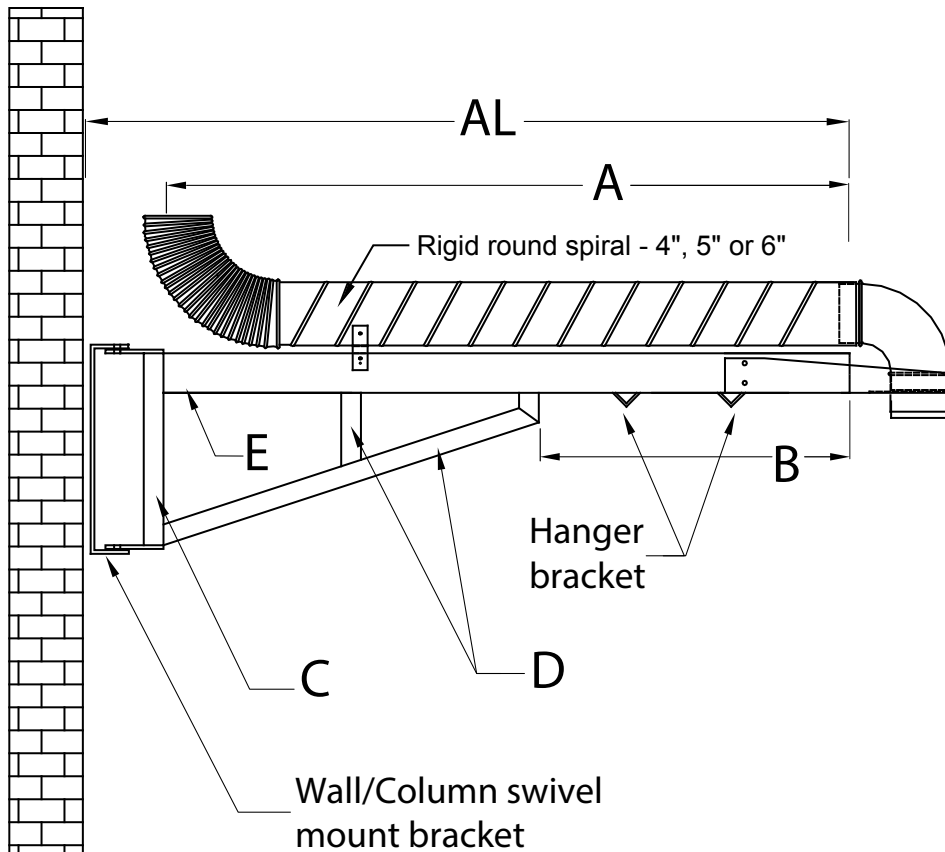
OVERHEAD EXHAUST SYSTEMS

**TECHNICAL  
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**SWIVEL BOOM**



	A	B	AL
SB-7	69.50"	31.48"	7'
SB-10	106"	54"	10'
SB-13	141.50"	54"	13'

C - 2" x 2" x 3/16" heavy wall tube. Tube is finished with an industrial epoxy powder coat finish.  
 D - 2" x 2" x 1/8" heavy wall tube. Tube is finished with an industrial epoxy powder coat finish.  
 E - 4" x 2" x 3/16" heavy wall tube. Tube is finished with an industrial epoxy powder coat finish.  
 Wall swivel bracket is formed from plate steel.

Range of swivel for wall/column section is approximately 200 degrees.

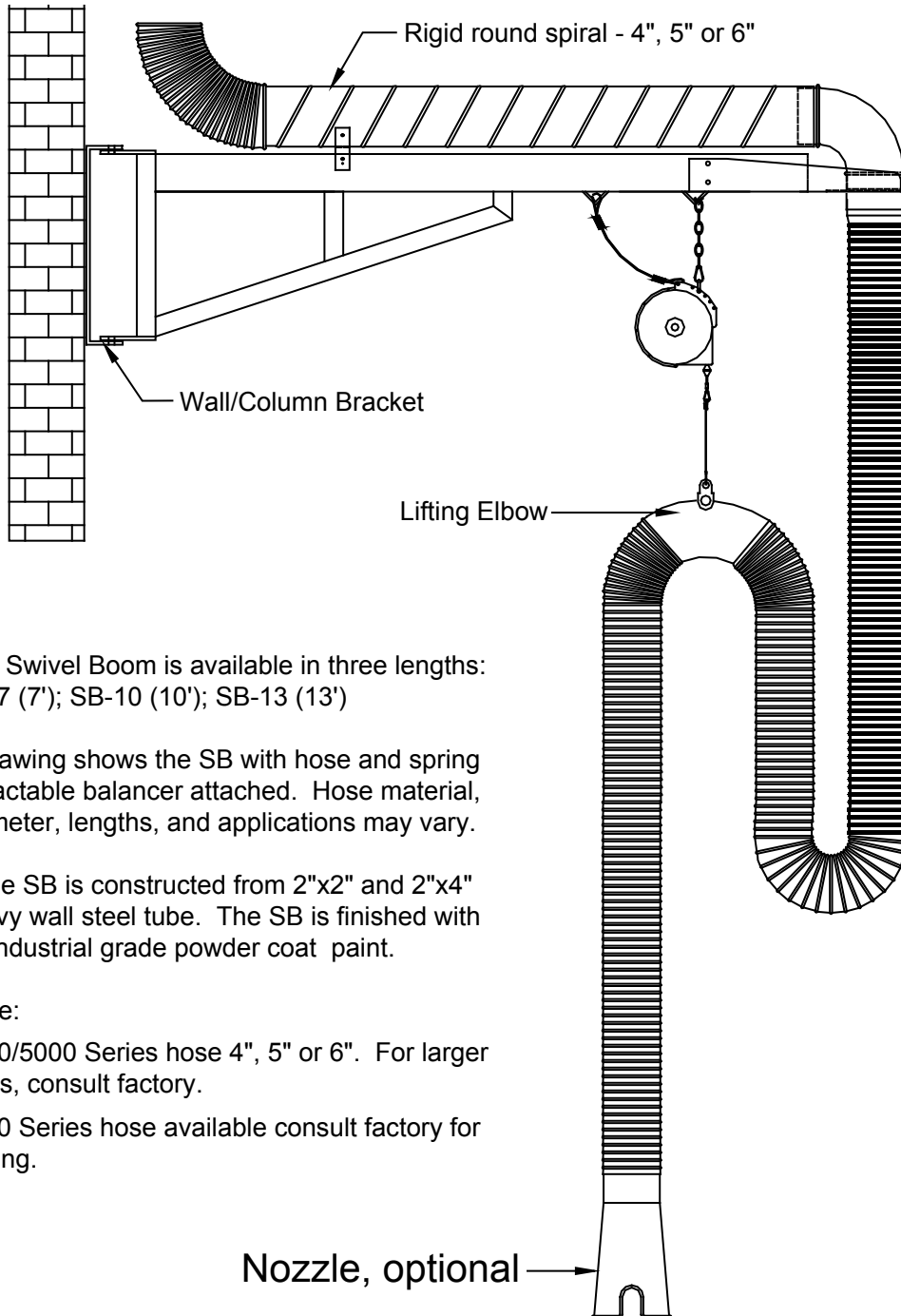
Drawing shows the swivel boom arm only. There are a number of options for attachment. Other catalog pages display accessories available with SB.

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**SWIVEL BOOM**



The Swivel Boom is available in three lengths:  
SB-7 (7'); SB-10 (10'); SB-13 (13')

\* Drawing shows the SB with hose and spring retractable balancer attached. Hose material, diameter, lengths, and applications may vary.

\* The SB is constructed from 2"x2" and 2"x4" heavy wall steel tube. The SB is finished with an industrial grade powder coat paint.

**Hose:**

4000/5000 Series hose 4", 5" or 6". For larger sizes, consult factory.

7000 Series hose available consult factory for pricing.

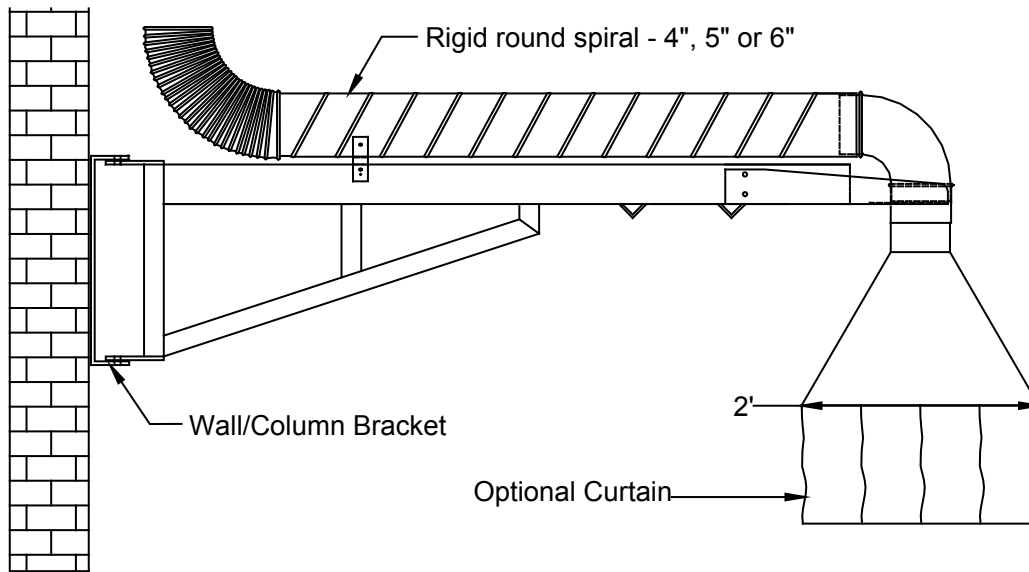
Nozzle, optional

Provided With: \_\_\_\_\_ Diameter \_\_\_\_\_ Feet/Hose \_\_\_\_\_ Series Hose

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**SWIVEL BOOM**

The Swivel Boom is available in three lengths:  
SB-7 (7'); SB-10 (10'); SB-13 (13')

Connecting hose to exhaust duct is available in  
various material, diameter, lengths.

\* Drawing shows the SB with the 24" round  
aluminum hood attached. Other hood sizes are  
available upon request. Contact the factory.

\* The SB is constructed from 2"x2" and 2"x4"  
heavy wall steel tube. The SB is finished with  
an industrial grade powder coat paint.

\* The SB system with the fixed hood is  
designed for many applications. The hood can  
be used to position over vehicle vertical exhaust  
stacks, welding tables, air borne dust, fumes  
and many other areas where air borne hazards  
need to be controlled.

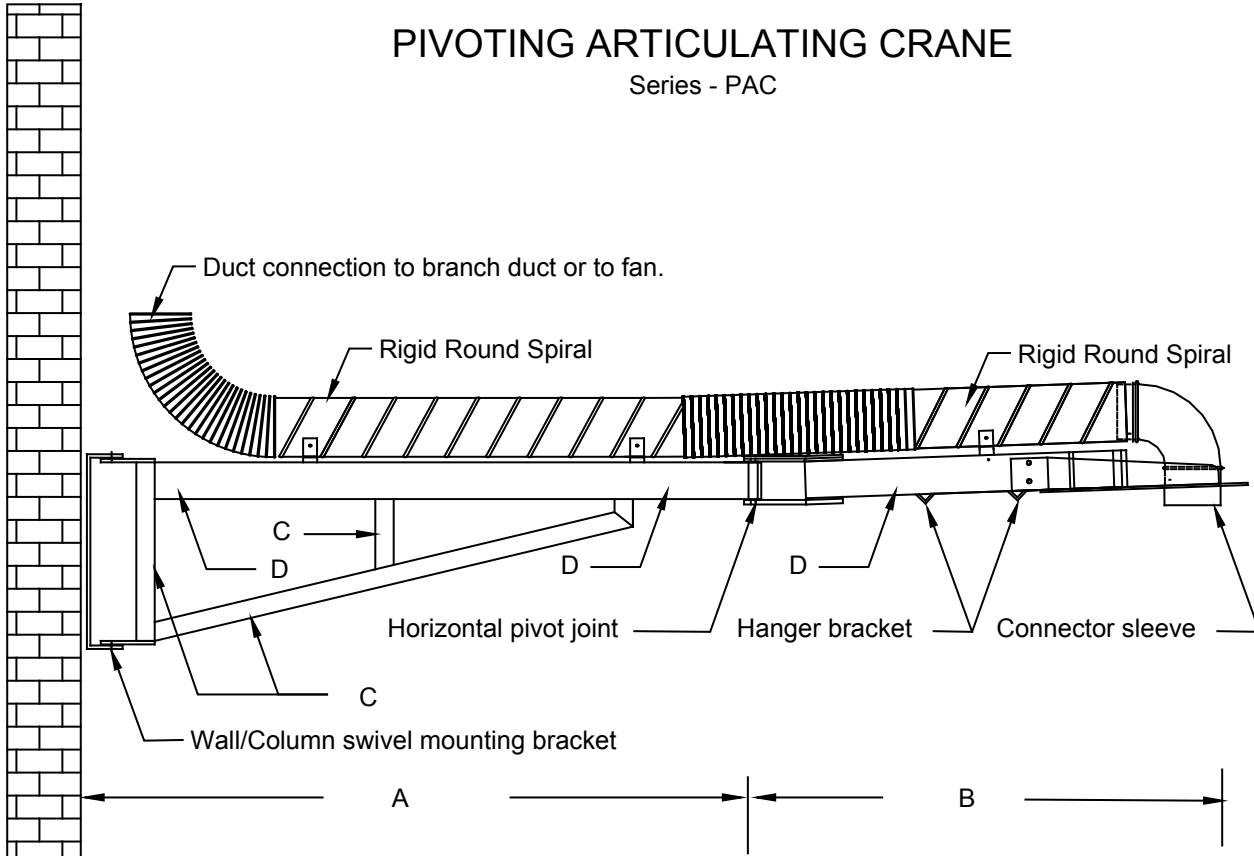
\* The SB can be ducted into a central exhaust  
system or each SB can have it's own fan.

**TECHNICAL  
INFORMATION**

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**PIVOTING ARTICULATING CRANE**  
Series - PAC



	A	B	AL
PAC-10	6'	4'	10'
PAC-15	9'	6'	15'
PAC-20	11'	9'	20'

C - 2" x 2" heavy wall tube. Tube is finished with an industrial epoxy powder coat finish  
 D - 4" x 2" heavy wall tube. Tube is finished with an industrial epoxy powder coat finish  
 Wall swivel bracket is formed from plate steel.

Range of swivel for wall/column section is approximately 200 degrees. Range of swivel for end section is approximately 270 degrees.

Drawing shows the PAC arm only. There are a number of options for attachment. Other catalog pages display accessories available with PAC.

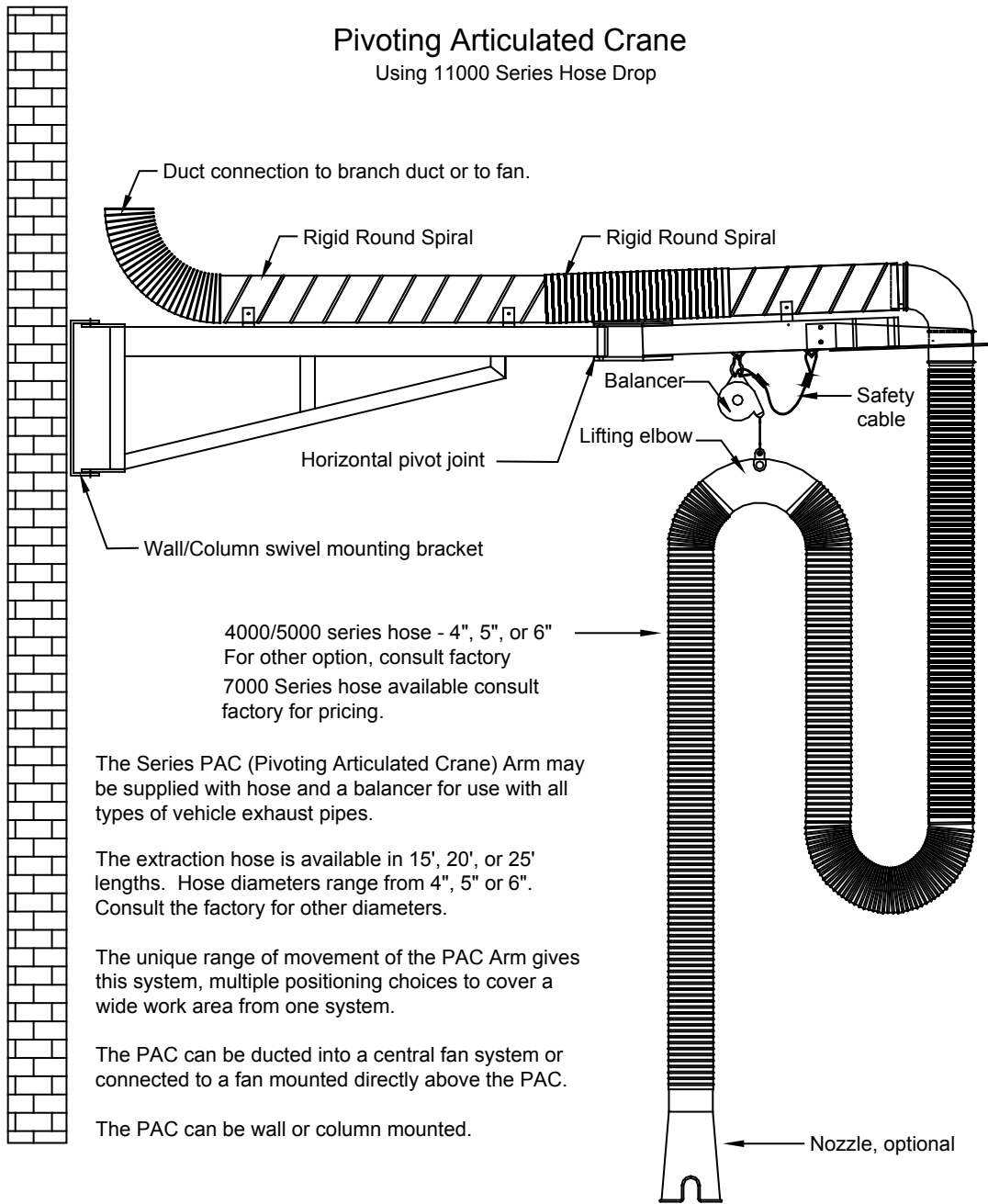


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**Pivoting Articulated Crane**  
Using 11000 Series Hose Drop



4000/5000 series hose - 4", 5", or 6"  
For other option, consult factory  
7000 Series hose available consult  
factory for pricing.

The Series PAC (Pivoting Articulated Crane) Arm may be supplied with hose and a balancer for use with all types of vehicle exhaust pipes.

The extraction hose is available in 15', 20', or 25' lengths. Hose diameters range from 4", 5" or 6". Consult the factory for other diameters.

The unique range of movement of the PAC Arm gives this system, multiple positioning choices to cover a wide work area from one system.

The PAC can be ducted into a central fan system or connected to a fan mounted directly above the PAC.

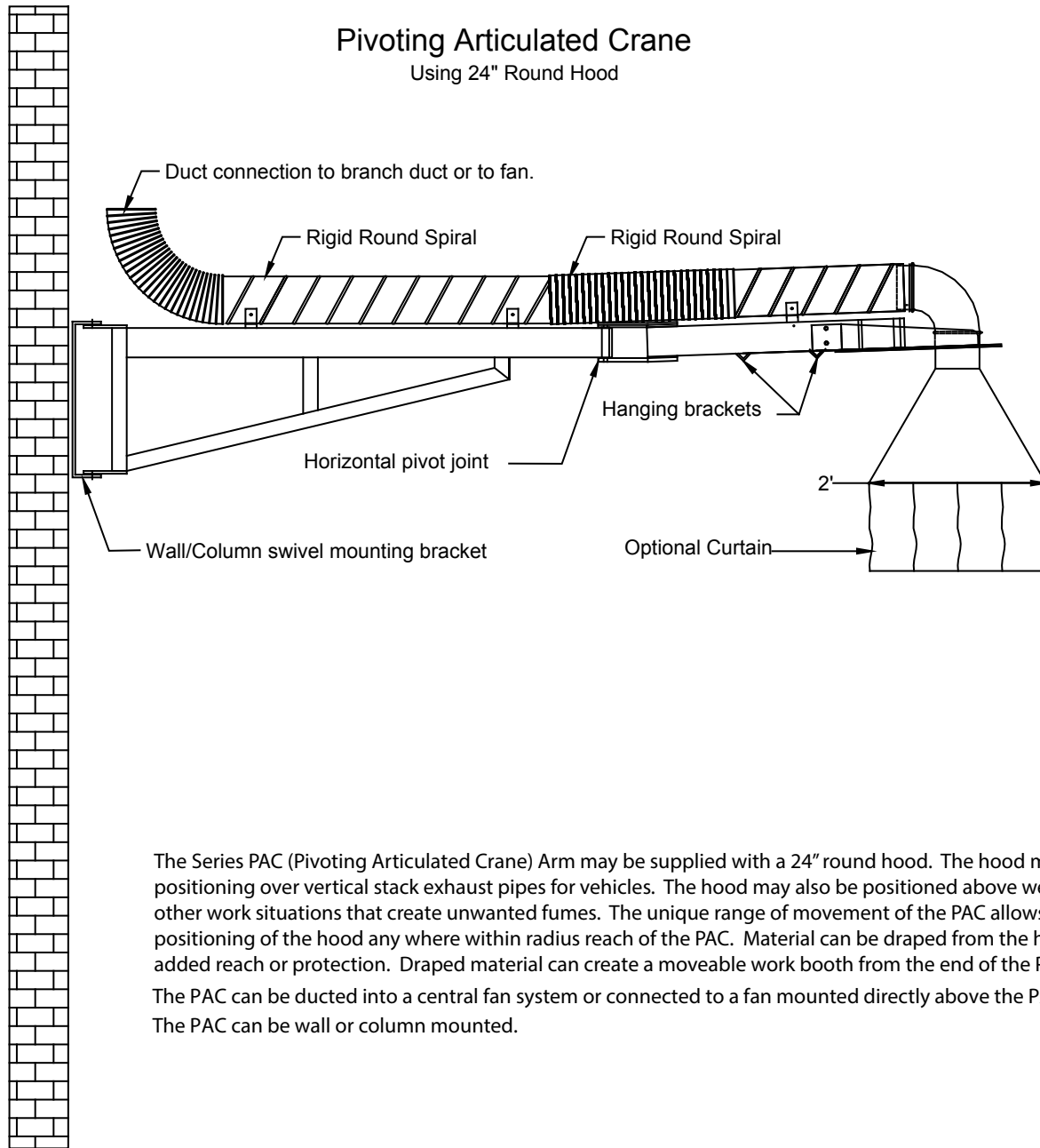
The PAC can be wall or column mounted.

Provided With: \_\_\_\_\_ Diameter \_\_\_\_\_ Feet/Hose \_\_\_\_\_ Series Hose

**TECHNICAL  
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The Series PAC (Pivoting Articulated Crane) Arm may be supplied with a 24" round hood. The hood may be used for positioning over vertical stack exhaust pipes for vehicles. The hood may also be positioned above welding areas or other work situations that create unwanted fumes. The unique range of movement of the PAC allows the positioning of the hood anywhere within radius reach of the PAC. Material can be draped from the hood to give added reach or protection. Draped material can create a moveable work booth from the end of the PAC. The PAC can be ducted into a central fan system or connected to a fan mounted directly above the PAC. The PAC can be wall or column mounted.

**TECHNICAL  
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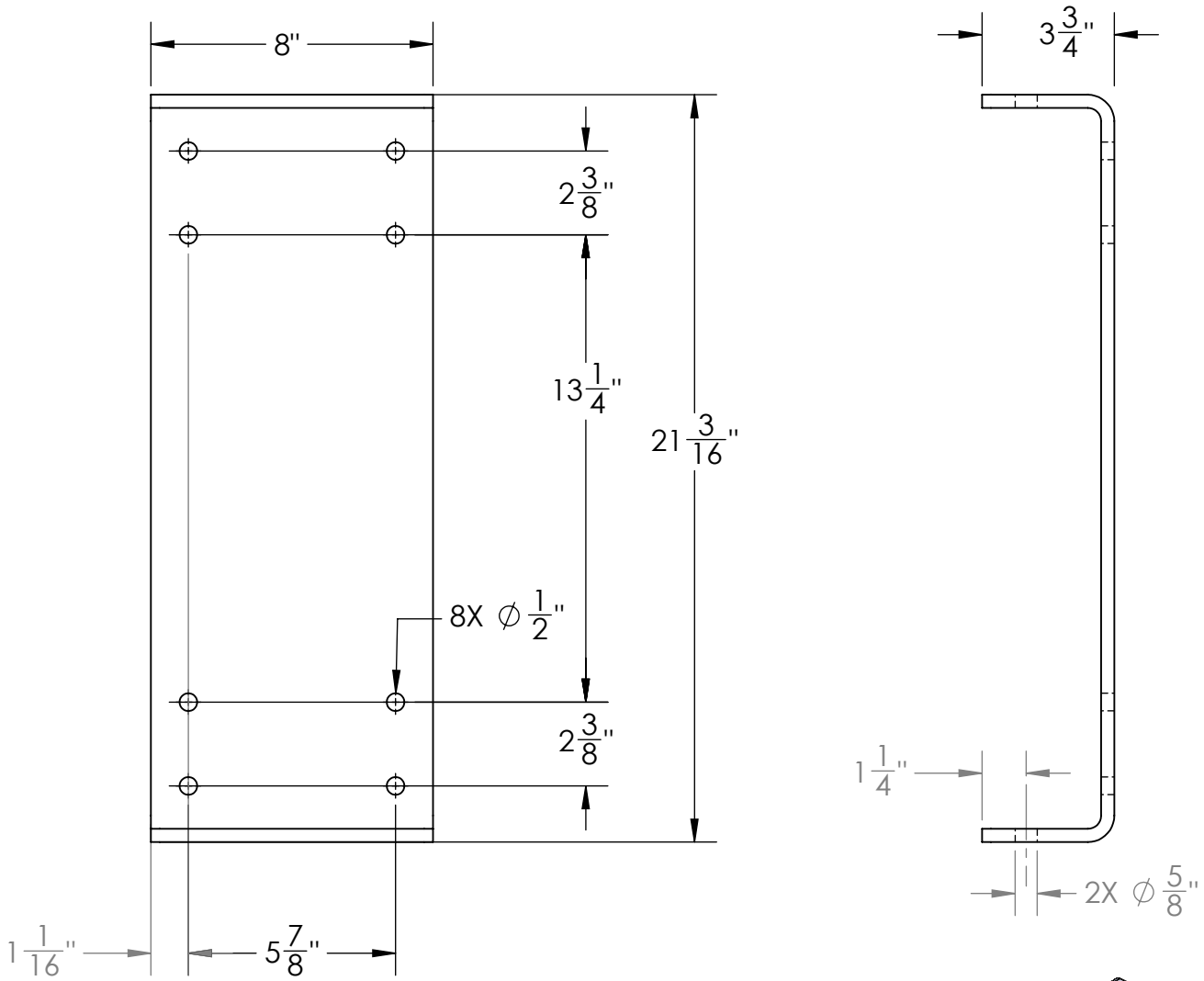
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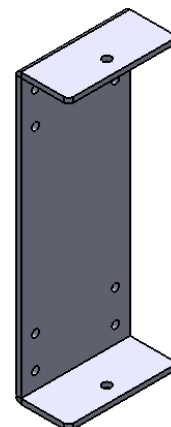
OVERHEAD  
EXHAUST SYSTEMS



**Material:**

Die Formed 3/8" Industrial Steel  
Plate. Powder Coated Black

\*Dimensions may vary, Not for construction.





11000-FMB-2 Dual Drops  
Y Fitting with Balancers &  
Lifting Elbows

## TECHNICAL INFORMATION

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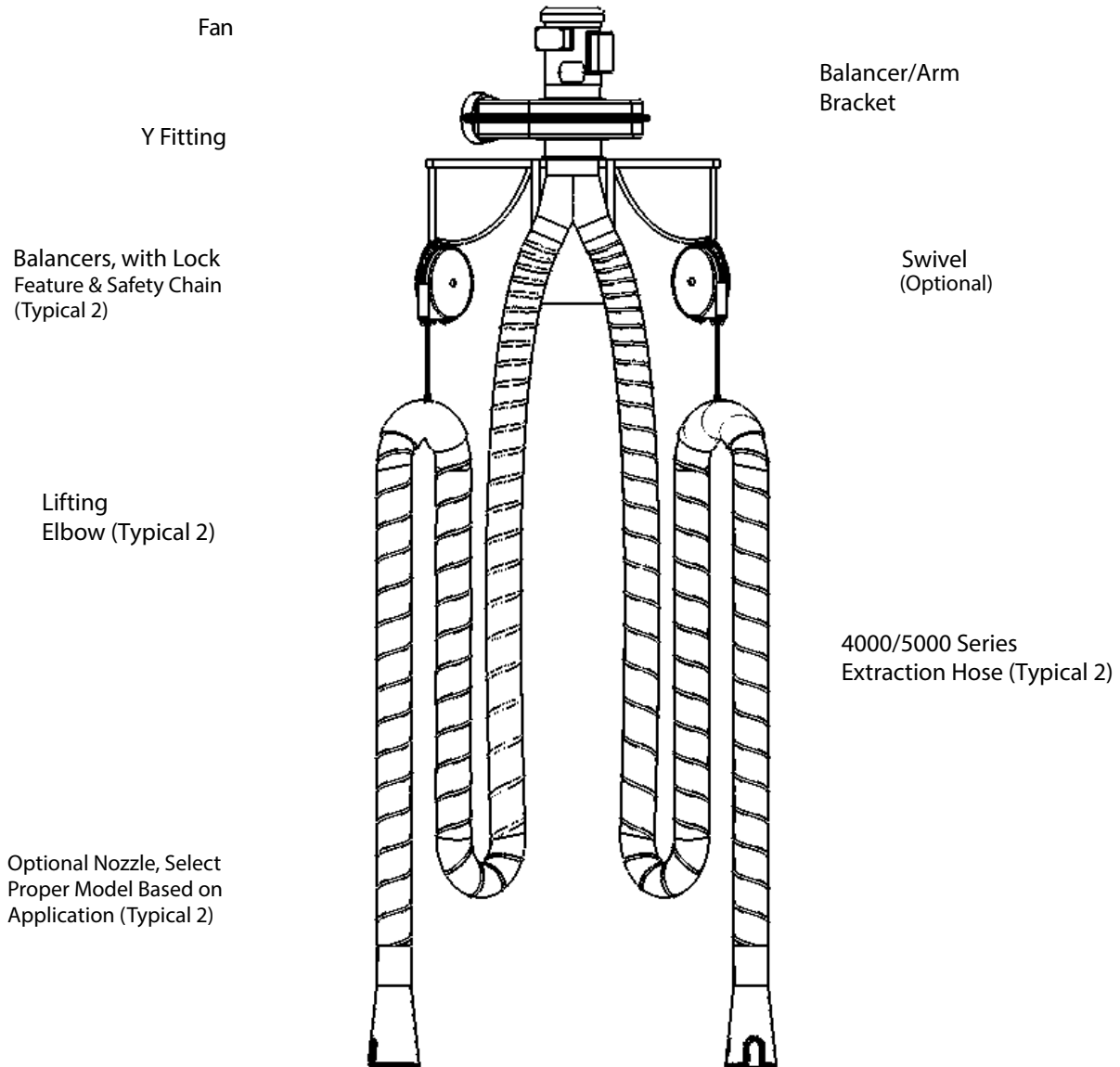
Page: OES-27

The **Series 11000-FMB-2** is a system providing one bracket/fan complete with two hose drops for a two-bay application. Balancer features a safety chain and position locking control.

Note: 11000-FMB-2 System is supplied with mounting bracket and fan. 4000/5000 Series Hose is used - hose supplied is 4", 5", or 6" in diameter. Hose is supplied in 15' - 30' lengths for 5000 Hose and 16', 20', 24' lengths for 4000 Hose.

Note: Fan HP for hose diameter follows:

4" Diameter Hose	1 HP Fan, D10, 1 PH standard
5" Diameter Hose	2 HP Fan, D20, 1 PH standard
6" Diameter Hose	3 HP Fan, D30, 3 PH standard



Provided With: \_\_\_\_\_ Diameter \_\_\_\_\_ Feet/Hose \_\_\_\_\_ Series Hose

OVERHEAD EXHAUST SYSTEMS



11000-FMB-2

Dual Drops - Y Fitting

# TECHNICAL INFORMATION

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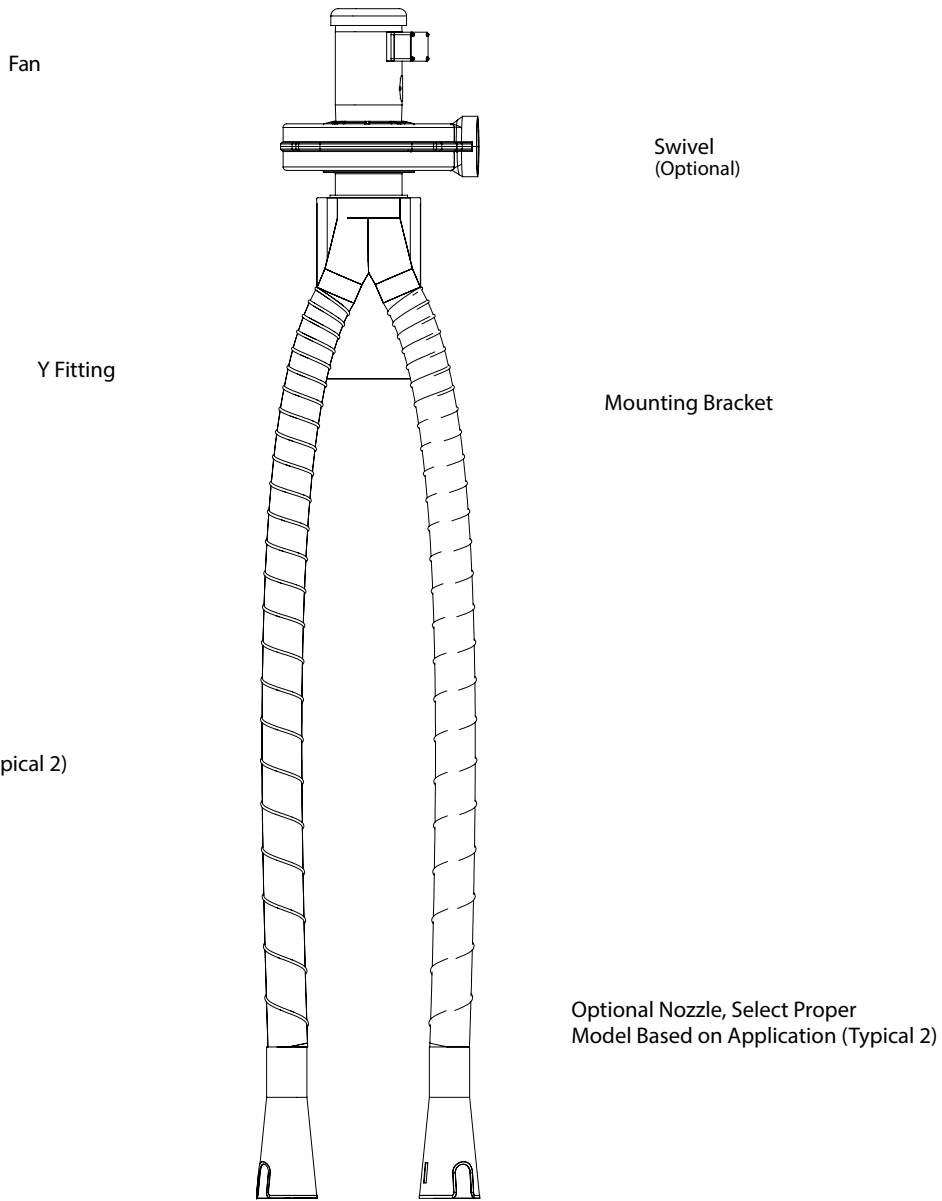
Page: OES-28

The **Series 11000-FMB-2** is a system providing one bracket/fan complete with two hose drops for a two-bay application.

Note: 11000-FMB-2 System is supplied with mounting bracket and fan. 4000/5000 Series Hose is used - hose supplied is 4", 5", or 6" in diameter. Hose is supplied in 15' - 30' lengths for 5000 Hose and 16', 20', 24' lengths for 4000 Hose.

Note: Fan HP for hose diameter follows:	4" Diameter Hose	1 HP Fan, D10, 1 PH standard
	5" Diameter Hose	2 HP Fan, D20, 1 PH standard
	6" Diameter Hose	3 HP Fan, D30, 3 PH standard

OVERHEAD EXHAUST SYSTEMS



4000/5000 Series Extraction Hose (Typical 2)

Optional Nozzle, Select Proper Model Based on Application (Typical 2)

Provided With: \_\_\_\_\_ Diameter \_\_\_\_\_ Feet/Hose \_\_\_\_\_ Series Hose



11000-FMB-2 Dual Drops -  
Y Fitting with Pulley Hook  
& Cable or Rope System

## TECHNICAL INFORMATION

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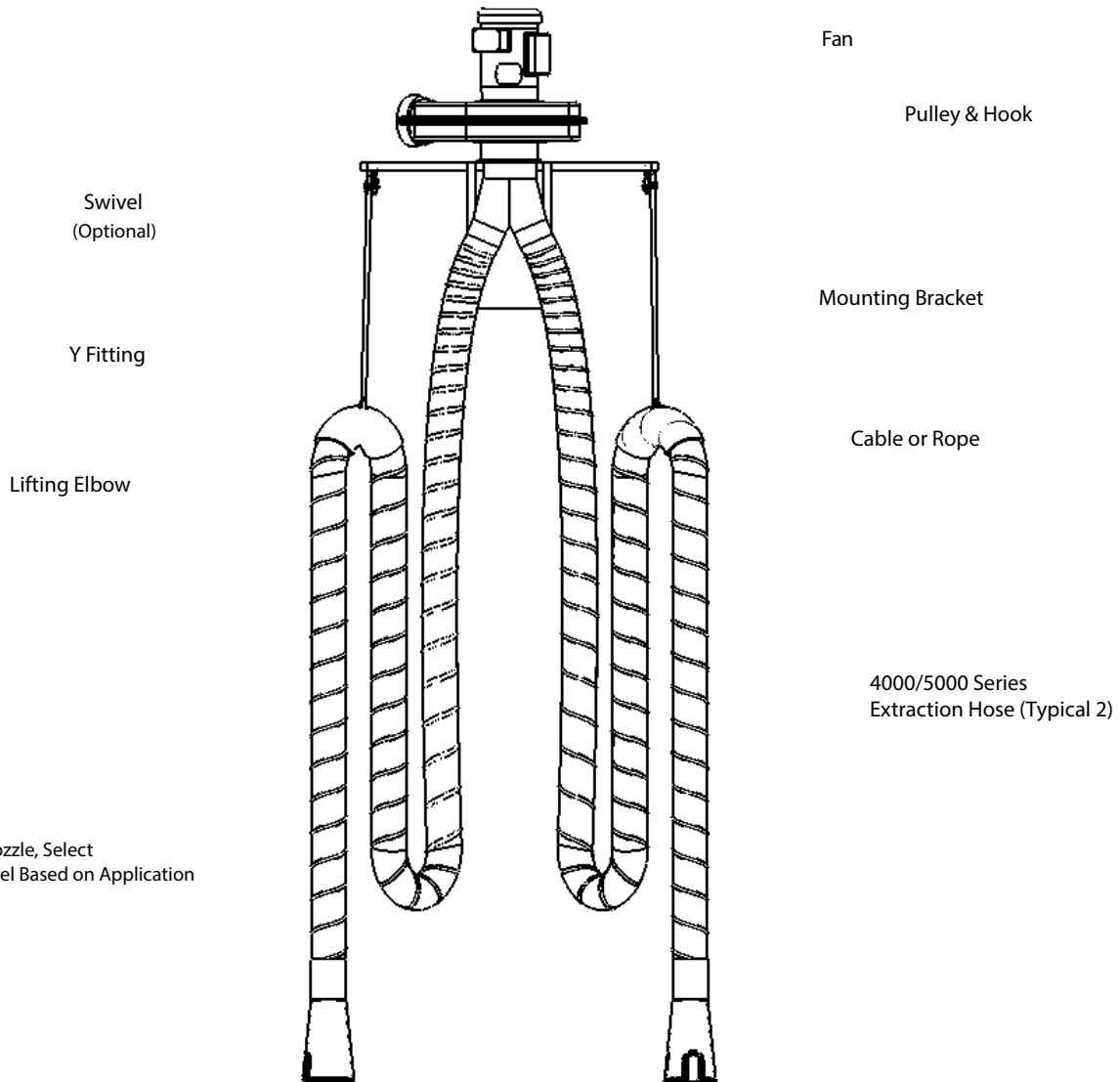
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Page: OES-29

The **Series 11000-FMB-2** is a system providing one bracket/fan complete with two hose drops for a two-bay application. Pulley and hook holds cable or rope configuration in place. Wall cleats provided with rope/pulley or a hand winch is provided for cable pull-up system.

Note: 11000-FMB-2 System is supplied with mounting bracket and fan. 4000/5000 Series Hose is used - hose supplied is 4", 5", or 6" in diameter. Hose is supplied in 15' - 30' lengths for 5000 Hose and 16', 20', 24' lengths for 4000 Hose.

Note: Fan HP for hose diameter follows:	4" Diameter Hose	1 HP Fan, D10, 1 PH standard
	5" Diameter Hose	2 HP Fan, D20, 1 PH standard
	6" Diameter Hose	3 HP Fan, D30, 3 PH standard



Provided With: \_\_\_\_\_ Diameter \_\_\_\_\_ Feet/Hose \_\_\_\_\_ Series Hose



## TECHNICAL INFORMATION

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DISCONTINUED PRODUCT:

MONOXIRAIL 11000 Series

OVERHEAD EXHAUST SYSTEMS