DIVERSIFIED AIR SYSTEMS, INC.

IMAROP

Hose drop for fume and gases
exhaust systems







- Small cars to diesel trucks application
- Spring balancer with ratchet lock system
- Multiple hose diameter and temperature options



High-Productivity Innovative Products

MAXDROP Hose drop for fume and gases exhaust systems

The MAXDROP hose drop system is an interesting alternative to hose reels. Designed to work with small cars right up to big diesel engines, MAXDROP assures that the hoses will not be crushed by workers or vehicles since they are lifted and secured by the balancer. The ratchet lock system on the balancer allows the hose to be pulled at the exact length required. Single, dual or fan equiped systems are also offered with different diameters, lengths and temerature ratings of hoses. A variety of tailpipe adaptors is also offered depending on the application.

Industrial Air Specialists

With our headquarters in Louisville, Kentucky, Diversified Air Systems, Inc. has been providing quality air solutions to industrial and commercial facilities since 1981. During our more than twenty-nine years of operation, Diversified Air Systems, Inc. has established two important company traditions: offering state-of-the-art equipment at competitive prices and achieving long-term customer satisfaction.

The staff of Diversified Air Systems, Inc. includes five application engineers, with a combined experience of more than 75 years in the air filtration and HVAC industry. Whether your facility requires an air filtration system for dust, mist, or fumes, or an HVAC solution to meet ventilation needs, Diversified Air Systems, Inc. has the equipment and expertise to meet the need.



Services include air quality analysis, system design, equipment sales, turnkey installation, onsite servicing, and supply of replacement filters and accessories.

Other Filtration Systems available:

Air Cleaners

Containment Booths

Decontamination Booths

Downdraft Tables

Dust Collectors

Fans and Blowers

Gas & Odor Control

High Vacuum Systems

Mist Collectors

Paint Booths

Stainless Steel Collectors

Vehicle Exhaust Systems

Wet Dust Collectors



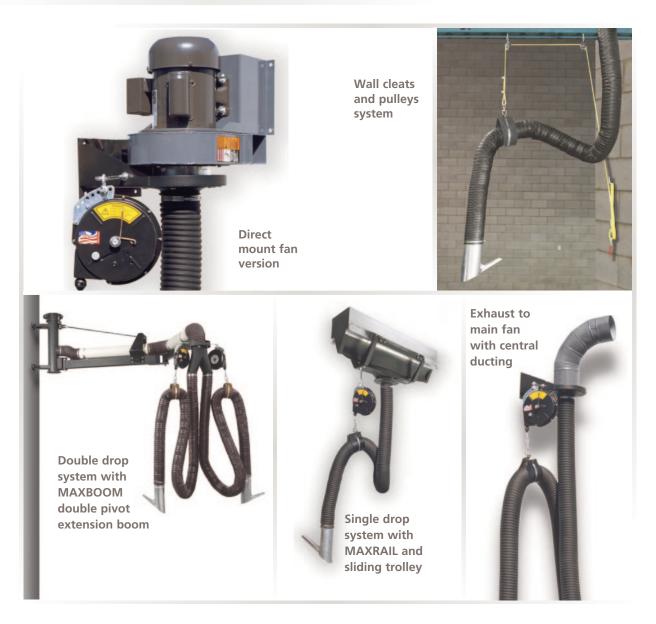
MAXDROP VERSATILITY FOR MULTIPLE APPLICATION

Suitable for any application from ATV repair facilities right up to large truck maintenance shops

Most of our competitors do not include these standard features:

- Balancer ensures the flexible hose does not rest on floor and risks of being crushed
- Available with direct mount fan
- Can also be used for removing harsh fumes in tanks or containers
- Hoses available in different diameters, temperature ratings and lenghts
- · Wide variety of tailpipe adaptors
- Full kit for easy installation

TYPICAL MAXDROP ARRANGEMENTS





OUTSTANDING MAXDROP FEATURES



	/ / / / / / /		/CF//ADV//]///
Vehicle type	Recommended air volume CFM/L/s	Recommended hose diameter [inches] / [mm]	Recommended hose temperature [°F] / [°C]
Small to full size cars	250-300/115-140	3-4/75-100	200-300/120-150
Performance sports cars	450-500 / 210-235	4-5/100-125	500-600/ 260-325
Large pick-up trucks/SUV's	350-400/165-190	4-5/100-125	500-600/ 260-325
Diesel trucks/ tractor trailors	700-800/330-375	6/150	500-600/ 260-325
Heavy duty off road machinery	1000-1200/470-565	8/200	900-1200 / 480-650

Some engines may exhaust fumes at higher temperatures than 900°F (480°C). Consult with engine or vehicle manufacturer's specifications. Note on flexible hoses : fumes vacuumed into flexible hoses are cooled with drawn ambiant air. Combination of extreme, high and low temperature hoses are available in order to minimize operating costs. Call factory or representative for details.



MAXDROP TYPICAL INSTALLATIONS

Ceiling trusses installation with braided rope, pulleys and wall cleats



Typical wall/post installation with support bracket (without fan)



Ceiling trusses installation with spring balancer but without support



Typical wall/post installation with support bracket and fan



MAXDROP EQUIPMENT FOR TYPICAL INSTALLATIONS

- two (2) 8" wall cleats, one (1) hose sling, two (2) 3" pulleys, two (2) hose clamps, one (1) 1/4" X 100' braided rope with thimbles, one (1) tangle free turnbuckle.
- : one (1) spring balancer with 15' travel cable and ratchet lock, one (1) 1" X 15' chain with eyebolt and nut, one (1) hose sling, two (2) hose clamps, one (1) tangle free turnbuckle.
- : one (1) equipment support bracket, one (1) or two (2) spring balancer(s) with 15' travel cable and ratchet lock, one (1) or two (2) hose sling(s), two (2) or four (4) hose clamps, one (1) or two (2) tangle free turnbuckle(s).
- : one (1) exhaust fan (not included, to be selected with MAXDRIVE leaflet), one (1) equipment support bracet, one (1) or two (2) spring balancer(s) with 15' travel cable and ratchet lock, one (1) or two (2) hose sling(s), two (2) or four (4) hose clamps, one (1) or two (2) tangle free turn buckle(s).

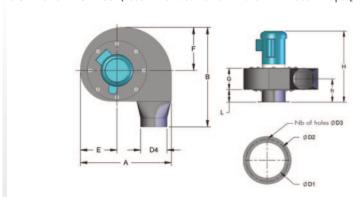
Tailpipe adaptors

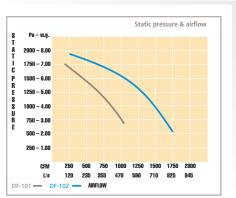
Because of the wide variety of shapes and sizes on cars and trucks tailpipes, adaptors are not included in the typical installations described above. Page 7 of this leaflet includes a complete list of available tailpipe adaptors and nozzles to be fitted with the MAXDROP hose drop systems.



MAXDRIVE FANS (3450 R.P.M.)

Backward inclined (recommended for 6" and 8" diameter drops [150mm and 200mm])

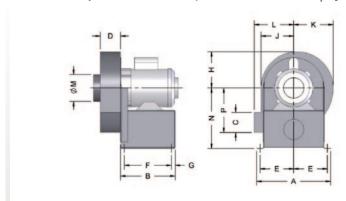


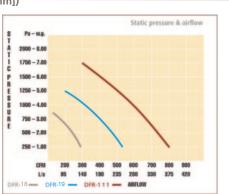


Dimensions												CHART 2			
Model	Power	Dimensions [inches] / [mm]												Weight	
Wiodei	[HP]	Α	В	E	F	Н	L	G	h	d1	d2	d3	d4	n	[lbs] / [kg]
DF-101	1 / 0.75	20.2 / 513	22.6 / 574	8.3 / 211	9.8/249	21.1/536	3.9 /99	5.9/150	6.9/175	6.25/160	7.69/195	0.4/9	6/198	6	70/31.8
DF-102	2 / 1.50	22.7 / 577	24.8 / 630	9.2 / 234	11 / 279	24.8 / 630	4.9 / 124	6.3 / 160	7.4 / 188	8 / 200	9.69 / 246	0.4 / 9	8 / 249	8	82 / 37.3

Electrical note: Motors are available in all voltages. Specify on order.

Radial blade (recommended for 3", 4" and 5" diameter drops [75mm, 100mm and 125mm])





Fan dimensions CHART 3

Model	[HP] /	Dimensions [inches] / [mm]											Weight			
Model	[KW]	Α	В	С	D	E	F	G	Н	J	К	L	M	N	Р	[lbs] / [kg]
DFR-18	0.33 / 0.25	11 / 279	8 / 203	8 / 203	3 / 76	5 / 127	7 / 178	0.5 / 13	5.38 / 137	4.88 / 124	5.88 / 149	5.88 / 149	4 / 102	6.63 / 168	9 / 229	44 / 20
DFR-19	0.33 / 0.25	12.13 / 308	8 / 203	3.5 / 89	3.5 / 89	5.63 / 143	7 / 178	0.5 / 13	6.38 / 162	5.75 / 146	6.88 / 175	6.75 / 171	5 / 127	7.5 / 191	9.88 / 251	46 / 21
DFR-111	1 / 0.75	14.75 / 375	9 / 229	4 / 102	3.5 / 89	6.88 / 175	7.5 / 191	0.75 / 19	7.25 / 184	6.5 / 165	8 / 203	7.63 / 194	6 / 152	8.63 / 219	11.75 / 298	62 / 28

Electrical note: motors are available in 115/1/60 only.



Galvanized steel tailpipe adaptors

(also available in stainless steel, contact factory for details)

TAILPIPE ADAPTORS & NOZZLES ALL RUBBER NOZZLES ARE CRUSH RESISTANT

Rubber adaptors protect chrome tailpipes

NR-TPA3000



Y adaptors designed for split tailpipes up to 3" (75 mm) in diameter. Y hoses 24" long each. (crush-resistant) Note: to be used temporarily. Not to be permanently attached to hose reel.

NR-F300-350-400



Straight adaptors with hook and chain. Up to 2,5" (65 mm), 3" (75 mm) or 3,5" (90 mm) in diameter. (crush-resistant)

NR-TWINFLAP



4" x 9" (100 mm x 225 mm) for side by side tailpipes rubber nozzle equipped with slotted closing flaps minimizing air loss. (crush-resistant)

NR-YA300-400



Y adaptors designed for split tailpipes 3" (75 mm) or 4" (100 mm) in diameter. Y hoses 48" long each. (crush-resistant)

Note: to be used temporarily. Not to be permanently attached to hose reel.

NR-F475-575



3" x 6" (75 mm x 150 mm) or 3" x 8" (75 mm x200 mm) oval shaped for dual tailpipes. Attached to tailpipe by hook (crush-resistant)

NR-RA250-300



Fits most car and light truck tailpipe sizes up to 3" (75 mm). Attached to tailpipe by means of cuffs and slots. (crush-resistant)

NA-DC-06-08



Note: cane nozzle is to be used temporarily. Not to be permanently attached to hose drop.

NG-SD Spring handle and lid

Spring loaded damper type. Available from 4" to 8" (100 mm to 200 mm).



Available with or without spring loaded damper type with vise-grip attachment. Available from 4" to 8" (100 mm to 200 mm). Required for high RPM testing facilities.

N-POLE-SQ-HO

Telescopic aluminium pole (8' to 16') with grab hook. Recommended when hose and nozzle are fully wrapped around the drum and is

Nozzle below is fitted with 2" eyebolt for grab hook and pole insert

out of arm's reach.

NZG-OE-HO



Spring loaded damper type with port emission analyzer. Available from 4" to 8" (100 mm to 200 mm).



Open nozzle adaptor. No tailpipe attachment included. Available from 4" to 8" (100 mm to 200 mm).

Optional rag stop 1/2" x 1/2" wire mesh: stainless steel HW-WMSS1/2 or galvanized steel HW-WM1/2

Note on flexible hoses: fumes vacuumed into flexible hoses are cooled with drawn ambiant air. Combination of extreme, high and low temperature hoses are available in order to minimize operating costs. Call factory or representative for details.

FLEXIBLE HOSES

				CHART/7/		
Model	Maximum temperature	Fabric [inches] / [mm]	Usage / Application	Diameters		
FH-240-X	240-300 °F / 115-135 °C	Cotton neoprene with exterior helix	Cars-light trucks	3" to 8" (75 to 200 mm)		
FH-500-X	500-600 °F /260-315 °C	Two (2) ply silicone fiber	High revolution engines, diesel trucks	3" to 8" (75 to 200 mm)		
FH-500W-X	500-600 °F /260-315 °C	Two (2) ply silicone fiber with protective wearstrip	High revolution engines, diesel trucks	3" to 8" (75 to 200 mm)		
FH-700-X	700-780 °F /370-415 °C	E-Glass with V4A Wire	High revolution engines, diesel trucks	3" to 8" (75 to 200 mm)		
FH-900-X	900-1000 °F/ 480-535 °C	E-glass polyurethane with exterior helix	Quarry and heavy duty machinery	3" to 8" (75 to 200 mm)		
FH-1200-X	1200-1350 °F / 650-730 °C	2 ply E-glass polyurethane with exterior helix	Military tanks and other similar vehicles	3" to 8" (75 to 200 mm)		
FH-1500-X	1500-1625 °F / 815-885 °C	E-Glass Cross Twill with V4A Wire	Military tanks and other similar vehicles	3" to 8" (75 to 200 mm)		













MAXDROP MODEL NUMBERING SYSTEM (HD letters stand for Hose Drop)

Step 1: Select hose lifting device. Ex: rope/pulley = HDSP

Step 4: Select hose temperature tolerance. Ex : 2 = 240 °F

Step 2: Select hose diameter. Ex: 5 = 5"

Step 5: If bracket is needed to support components, add: Ex 1: SB = support bracket for equipment only

Step 3: Select hose length. Ex: 25 = 25'

Ex 2: SBF = support bracket for equipment and fan

SEQUENCE IN MODEL NUMBERING SYSTEM

- 1. CODES FOR LIFTING DEVICE
 - HDSP = Hose Drop Single with Pulleys
- HDSB = Hose Drop Single with Balancer
- HDDB = Hose Drop Double with **B**alancer

2. CODES FOR HOSE DIAMETER (SHOWN IN INCHES)

• 3 = 3 4 = 4

6 = 65 = 5

- 3. Codes for hose length (shown in feet)
 - \bullet 16 = 16

25 = 25

- 4. CODES FOR HOSE TEMPERATURE TOLERANCE (SHOWN IN °F)
 - 2 = 240

5 = 500

9 = 900

1 = 1200

- **EXAMPLE FOR COMPLETE HOSE DROP MODEL NUMBERING SYSTEM**
- Ex 1: HDSB 6165: Hose Drop Single Balancer with 6" diameter hose, 16' long, 500 °F hose temperature tolerance
- Ex 2: HDDB 4252SB: Hose Drop Double Balancer with two (2) 4" diameter hoses, 25' long, 240 °F hose temperature tolerance, support Bracket

CREATE YOUR MAXDROP HOSE DROP SPECIFICATION

- HOSE DROP SHOULD INCLUDE: flexible hose support sling with tangle free turnbuckle, hose clamps 2. HOSE DROP SHOULD INCLUDE LIFTING **DEVICE BY MEANS OF:** A) rope and pulleys B) single balancer c) double balancer HOSE DIAMETER SHOULD BE: A) 3" в) 4" с) 5" р) 6" **E)** 8" HOSE LENGTH SHOULD BE: a) 16' в) 25' HOSE MODEL SHOULD BE: в) FH-500-X c) FH-500W-X **A)** FH-240H-X **b)** FH-900H-X **E)** FH-1200H-X
- HOSE DROP SHOULD INCLUDE: A) support bracket for hose drop only
 - B) support bracket for hose drop with exhaust fan
- HOSE DROP SHOULD INCLUDE FAN MODEL:

refer to recommended fan selection in this leaflet (page 6)

- HOSE DROP SHOULD INCLUDE TAILPIPE ADAPTOR MODEL:
 - selection to be made from list of available adaptors in this leaflet (page 7)
- HOSE DROP SHOULD INCLUDE:

balancer mounted micro-switch for automatic fan start/stop (starter and transformer not included).

Note: specifications listed above may be modified to suit application. Contact DAS or representative for information.

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