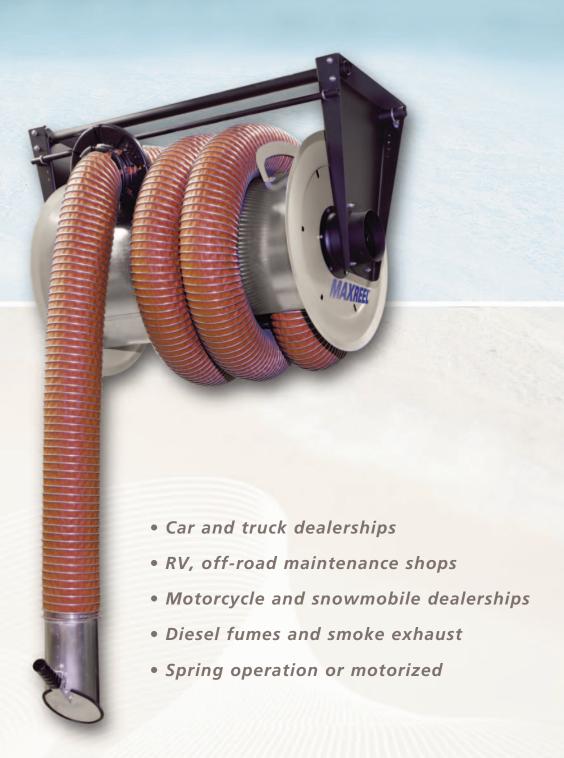
DIVERSIFIED AIR SYSTEMS, INC.



Exhaust hose reels





High-Productivity Innovative Products

MAXREEL Fume and gases exhaust hose reels

Car and truck maintenance facilities are often comfronted with the presence of fumes and gases produced while the engines are running during tune-up or repairs. The MAXREEL fume extraction system is well adapted to capture the deadly pollutants emitted from combustion engines. Made of rugged rolled steel components, the MAXREEL recoils the flexible hose around the drum when not in use. A heavy duty dual spring pack with ratchet lock mechanism is located on the side of the reel. Optional motor driven reels with radio signal control is also available along with a fan mounted directly on the hose reels. A central fan can also be used for multiple reels installation. Fitted directly on the automobile tailpipe or truck stack, the different available nozzles can be made of steel, stainless steel, aluminum or rubber. Dependind on the application, hoses are available in 3' (100 mm), 4" (100 mm), 5" (125 mm) and 6" (150 mm) diameters. Hose reels can also take up to 42' (13M) of hose. High temperature hoses (up to 2000o F / 1100o C) are offered for extreme duty 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



SIMPLY BECAUSE ENGINE FUMES NEED TO BE EXHAUSTED

Most of our competitors do not include these standard features:

- Heavy gauge steel construction
- 3"(75mm), 4"(100mm), 5"(125mm), 6"(150mm) and 8"(200mm) diameter hoses
- Heavy duty tempered steel spring pack
- Powder coat painted and galvanized steel components
- Hose temperature up to 1200 °F (650 °C).
- E.Z. lock ratchet lock mechanism or motorized operation
- Multiple selection of hose capacity
- Shipped fully assembled

MAXREEL EXHAUST EXHAUST HOSE REEL TYPICAL INSTALLATION AND APPLICATION



High temperature hose with truck stack aluminum cane nozzle.



MAXREEL equiped with direct mount MAXDRIVE fan (adjustable air discharge).



MAXREEL XL, extra large motorized version with 12" x 60' flexible hose. Special design for high ceilings and high air volume.

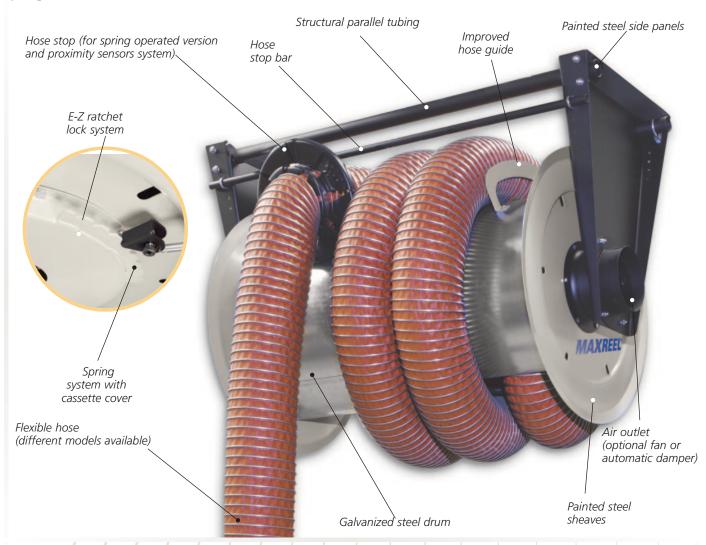


Note: refer to local building laws and requirements. Support structure has to meet sturdiness and reliability for weight and torque of reel with accessories.



Motorized model is highly recommended OUTSTANDING MAXREEL FEATURES for plants with overhead cranes.

Spring recoil model



Motorized model control options



Wireless radio signal transmitter (UP/DOWN/STOP) HRM-00-00-40



Pendant 3 way rotary switch (UP/DOWN/STOP) HRM-00-00-50



Pendant 3 way rotary switch with fan control (UP/DOWN/STOP) (FAN START/STOP) HRM-00-00-60



Wall mounted 3 way rotary switch (UP/DOWN/STOP) HRM-00-00-70



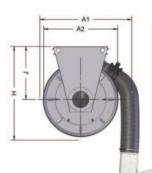
Wall mounted 3 way rotary switch with fan control (UP/DOWN/STOP) (FAN START/STOP) HRM-00-00-80

Note: maximum weight of flexible hose and nozzle can not exceed 20 lbs (9 kg) for hose reel model 240000. Maximum weight of flexible hose and nozzle can not exceed 55 lbs (25 kg) for hose reel models 340000, 390000 and 450000. If a heavier hose is necessary, DAS suggests heavy duty dual springs or motorized version. DAS will not be held responsable of reel performance if customer uses heavier flexible hose than maximum weight allowed.

CHART 1



DIMENSIONS (MOTORIZED AND SPRING RECOIL MODELS)



Drum width Dimensions [inches] / [mm]						Weight without hose					
[inches] / [mm]	A1	A2	н	L1	S1	L2	S2	J	D1	D2	[lbs] / [kg]
24/ 600		25.5/648	32.5/826	32.8/820	18.8/476	30/750	12.3/311	18.4/467	6/152	0.5/13	65/30
34/ 850	As per	25.5/648	32.5/826	43.8/1111	18.8/476	41/1041	12.3/311	18.4/467	6/152	0.5/13	105/48
39/ 975	of hose	25.5/648	32.5/826	48.8/1238	18.8/476	46/1168	12.3/311	18.4/467	6/152	0.5/13	115/52
45 / 1125 (with 6" hose)	selected	25.5/648	32.5/826	54.8/1370	18.8/476	52/1300	12.3/311	18.4/467	6/152	0.5/13	160/73
45 / 1125 (with 8" hose)		25.5/648	34.5/862	54.8/1370	18.8/476	52/1300	12.3/311	20.4/467	8/200	0.5/13	160/73

24" wide hose reel available in spring version only.

Hose reel model numbering system

To select hose reel model, use numbering system as follows:

HR = Hose Reel (standard spring return) HRM = Hose Reel Motorized (with pendant or wall mounted switch) HRMW= Hose Reel Motorized Wireless (radio signal handset)

First set of two (2) digits = drum width Third digit = hose diameter

Second set of three (3) digits = hose temperature rating (For 500 °F hose with protective wearstrip, substitute 500 digits for 50W). Last set of two (2) digits = length of flexible hose

EX # 1: HRMW-39650025

means hose reel, motorized, wireless radio signal, 39" wide drum, 6" diameter hose, 500°F temperature rating of hose, 25' of hose For motorized hose reel operation without radio signal handset, make selection of wall or pendant switch in page 4 of this leaflet.

EX # 2: HR-24424025

1 H.P.

2 H.P.

22.25/555

25.95/650

means hose reel, (standard spring return), 24" wide drum, 4" diameter hose, 240 deg F temperature rating of hose, 25' of hose

Hose diame- ter (in/mm)	Hose storage capacity (ft./m.)	Drum width (in/mm)		
2/75	25/7.7	24/600		
3/75	35/10.7	24/600		
4/100	25/7.7	24/600		
4/100	35/10.7	34/850		
5/125	25/7.7	24/600		
3/123	35/10.7	34/850		
CHEO	25/7.7	34/850		
6/150	35/10.7	39/975		
0/200	25/7.7	34/850		
8/200	35/10.7	45/1125		

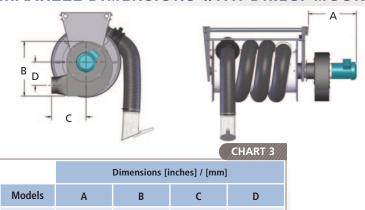
Drum width CHART 2



MAXREEL components

- 1. Drum
- 2. Sheaf
- 3. Side panel
- 4. Structural tubings
- 5. Flexible hose
- 6. Nozzle
- 7. Hose stop (not needed on motorized model)
- 8. Hose stop bar
- 9. Hose guide
- 10. Hose support (U-bolt)
- 11. Air outlet

MAXREEL DIMENSIONS WITH DIRECT MOUNTED FAN



12.76/320

13.62/340

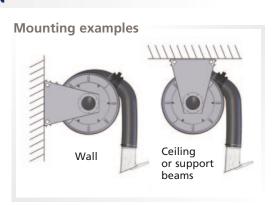
8.52/215

9.10/225

Note: MAXREEL with fan will be shipped top horizontal discharge unless specified otherwise by customer. Bottom horizontal discharge shown above.

20.19/505

22.50/560

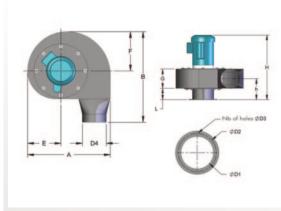


Note: MAXREEL exhaust hose reel may be equiped with other than 25' or 35' hose length configurations. Contact factory for details.



MAXDRIVE FANS (3450 R.P.M.)





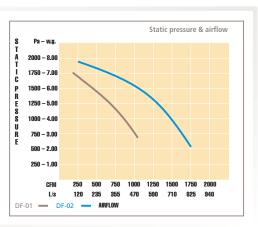


	CHART 4			
	Fan data			
	115/230-1-60			
Available voltages	208/460-3-60			
5	575-3-60			
Impeller type	Backward inclined (aluminum)			
Housing	steel (painted)			
Motor	TEFC			
R.P.M.	3450			

CHART 5

CHART 6

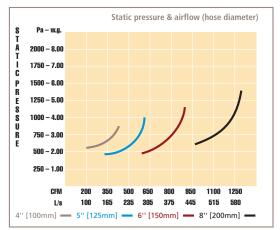
Fan dimensions

Model	Model Power Dimensions [inches] / [mm]								Weight						
Woder	[HP/Kw]	Α	В	E	F	Н	L	G	h	d1	d2	d3	d4	n	[lbs] / [kg]
DF-01	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-02	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. Technical note: refer to MAXDRIVE fan leaflet for complete data.

Temperature note: if exhaust temperature exceeds 400 °F [205 °C] with ambiant air dilution, select high resistance painted

steel impellers on MAXDRIVE fans.



Note: static pressure drop indicated is with 75% of hose used. Pressure loss chart does not include exhaust ducting. Static pressure and air flow for hose reel with 3" hose submitted on request.

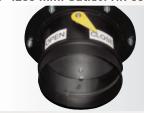
Optional proximity sensor for automatic fan



Vehicle type	Recommended air volume CFM/L/s	Recommended hose diameter [inches] / [mm]	Recommended hose temperature [°F]/[°C]		
Small to full size cars	250-300/120-140	4/100	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	700-800/300-375	6/150	500-600/ 260-325		
Heavy duty machinery and turbo diesel	1000-1200/ 470-570	8/200	900-1200 / 480-650		

Optional spring damper at hose reel outlet

6" (150 mm) outlet: HR-00-06-30 8" (200 mm) outlet: HR-00-08-30





Note on opened end type nozzles: continuous exhaust through opened end type nozzle will use air flow uselessly when reel is not in use. For maximum exhaust performance, select optional spring damper at hose reel outlet as shown above (motorized dampers available).



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

NZR-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.

NZR-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)

NZR-TWINFLAP



 $4^{\prime\prime}$ x $9^{\prime\prime}$ (100 mm x 225 mm) for side by side tailpipes rubber nozzle equipped with slotted closing flaps minimizing air loss. (crush-resistant)

NZR-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.

NZR-F475-575



3" x 6" (75 x150 mm) or 3" x 8" (75x200mm) oval shaped for dual tailpipes. Attached to tailpipe by means of hook and chain. (crush-resistant)

NZR-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)

NZA-DC-06-08



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

NZG-SD Spring handle and lid

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

NZ-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 out of arm's reach.

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





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

NZG-VG



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

CHADT/7



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

				CHARI///
Model	Maximum temperature	Fabric [inches] / [mm]	Usage / Application	Diameters
HO-240H-X	240-300 °F / 115-135 °C	Cotton neoprene with exterior helix	Cars-light trucks	3 to 8" (75 to 200 mm)
HO-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)
HO-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)
HO-900H-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)
HO-1200H-X	1200-1350° F /650-730° C	2 ply E-glass polyurethane with exterior helix	Extreme temperature	3 to 8" (75 to 200 mm)

HO-240H-2









CREATE YOUR MAXREEL EXHAUST HOSE REEL SPECIFICATION

1.	Hose reel should include:		o) direct drive tube motor [115-1-60] with pendant switch and fan switch
	Powder coat painted steel structural partubings for stability, 10 and 12 gauge pow	vder	direct drive tube motor [115-1-60] with wall mounted switch
	coat painted steel side panels and braces, he guide bar for proper coiling and wrapping hose around the drum, galvanized steel he	g of	direct drive tube motor [115-1-60] with wall mounted switch and fan switch
	storage drum, duct exhaust flange.	6.	Hose reel should include direct
2.	Hose reel should include hose		DRIVE MOUNTED FAN MODEL:
	DIAMETER OF:		A) DF-01 (voltage to be confirmed)
	A) 3" [75 mm]		B) DF-02 for 8" [200 mm] reels only (voltage to be confirmed)
	B) 4" [100 mm] c) 5" [125 mm]		c) control panel for reel with single fan start/stop operation (no proximity switch)
	b) 6" [150 mm]		proximity switch for automatic start/stop of fan
3.	E) 8" [200 mm] HOSE REEL SHOULD HAVE STORAGE		control panel for single reel with single fan and proximity switch
	CAPACITY OF:	7.	HOSE REEL SHOULD INCLUDE
	а) 25′ [8 М] в) 35′ [10.8 М]		TAILPIPE ADAPTORS MODEL:
	(contact factory for other available lengths		a) selection to be made from list of available adaptors in this leaflet (page 7).
4.	HOSE REEL SHOULD INCLUDE HOSE MC	DDEL:	galvanized steel wire mesh in adaptor
	A) HO-240H-X		c) stainless steel wire mesh in adaptor
	в) НО-500-Х		p) telescopic aluminum grab pole
	c) HO-500W-X		
	р) НО-900Н-Х	8.	Hose reel side outlet should include:
	E) HO-1200H-X		reel motion activated outlet damper
5.	HOSE REEL SHOULD INCLUDE DRUM ROTATION BY MEANS OF:		motorized outlet damper
	dual tempered steel springs with ratchet lock		
	B) direct drive tube motor [115-1-60] with radio remote transmitter		
	direct drive tube motor [115-1-60] with pendant switch		Note: specifications listed above may be modified to suit application. Contact DAS or representative for information.
			.,

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