MAXIREEL



AQC SOURCE CAPTURE EQUIPMENT

EXHAUST HOSE REELS





- Vehicule exhaust
- Diesel fumes and smoke exhaust
- Spring or motorized operation

Superior technology generating substantial operating savings

AQC DUST COLLECTING SYSTEMS

MAXIREEL™

High-Productivity Innovative Products

Fume and gas exhaust hose reels

Car and truck maintenance facilities are often confronted with the presence of fumes and gases produced while the engines are running during tune-up or repairs. The MAXIREEL fume extraction system is well adapted to capture the deadly pollutants emitted from combustion engines. Made of rugged rolled steel components, the MAXIREEL 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 are 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" (76 mm), 4" (102 mm), 5" (127 mm), 6" (152 mm) and 8" (203 mm) diameters. Hose reels can also take up to 42' (12.8 m) of hose. High temperature hoses (up to 1200 °F / 650 °C) are offered for extreme duty application.

AQC

A Leading-Edge, High-Performance Company

The AQC Dust manufacturer fabricates a full range of safe, industrial dust collectors, as well as dust and smoke capture equipment and high pressure industrial dampers at the leading edge of air control technologies based on more than 30 years of experience in the field.

AQC's strength lies in its innovative products designed and developed to generate substantial savings throughout their entire operating life.

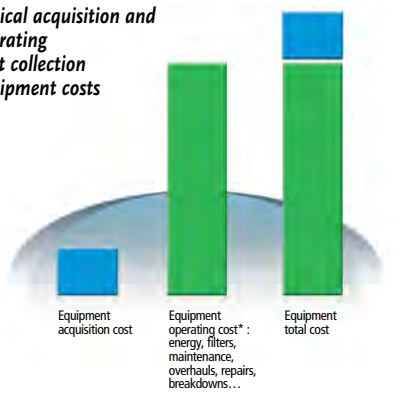
AQC is renowned for its technological innovation, safe and sophisticated equipment design, as well as its robust and precise product manufacturing. For example, the unique design of the baffles inside AQC dust collectors makes filter cleaning easy. The AQC cartridge holder design provides maximum filter surface and enhanced filter performance. The ultra-smooth concept inside AQC fume arms makes them maintenance-free. The durability of the heavy duty industrial dampers.

In short, AQC equipment is designed and built to generate substantial operating savings in terms of time, money and energy. This translates to major reductions in operating costs – from 10 to 20% – throughout the equipment's operating life. This scale of savings can represent a significant portion of the equipment's total purchase price. Companies looking to maximize their profitability should factor in these savings when purchasing equipment.

The unique design and manufacturing of AQC equipment generates significant savings for various reasons :

- Substantial increase in the duration of filters.
- Lower energy consumption during years of use.
- Significantly less maintenance (easy to clean, robust manufacturing, a minimum number of more reliable and durable parts).
- Reduced operating costs (less frequent overhauls, lack of or minimum down time, etc.).
- Lower administrative costs (coordination, follow-ups, supervision) due to much less frequent breakdowns.
- Safe design can prevent serious or even fatal accidents.
- Increased comfort and productivity of personnel.

Typical acquisition and operating dust collection equipment costs



The acquisition cost is just one part of the equation. It's the total cost including the operating cost ***throughout the life cycle of the equipment*** that must be kept low. This is what AQC delivers. The advanced technology, design, robustness, durability and safety of AQC products generate major savings during the equipment's entire life cycle.

SIMPLY BECAUSE ENGINE FUMES NEED TO BE EXHAUSTED

- Heavy gauge steel construction
- 3"(76 mm), 4"(102 mm), 5"(127 mm), 6"(152 mm) and 8"(203 mm) diameter hoses, 10"(254 mm), 12"(305 mm)
- Heavy duty tempered steel spring pack
- Powder coat painted and galvanized steel components
- Hose temperature up to 1200 °F (650 °C)
- E.Z. ratchet lock mechanism or motorized operation
- Multiple selection of hose capacity
- Shipped fully assembled

MAXIREEL EXHAUST HOSE REEL TYPICAL INSTALLATION AND APPLICATION



High temperature hose with truck stack aluminum cane nozzle.



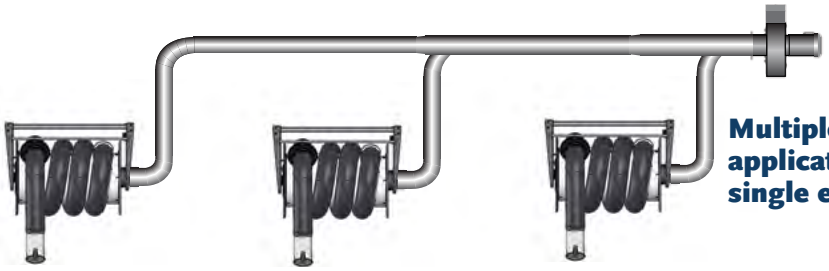
MAXIREEL equipped with direct mount MAXIDRIVE fan (adjustable air discharge).



MAXIREEL equipped with MAXIREACH single pivot boom.



MAXIREEL XL, extra large motorized vesion with 12" (305 mm) x 60'(18.3 mm) flexible hose. Special design for high ceilings and high air volume.

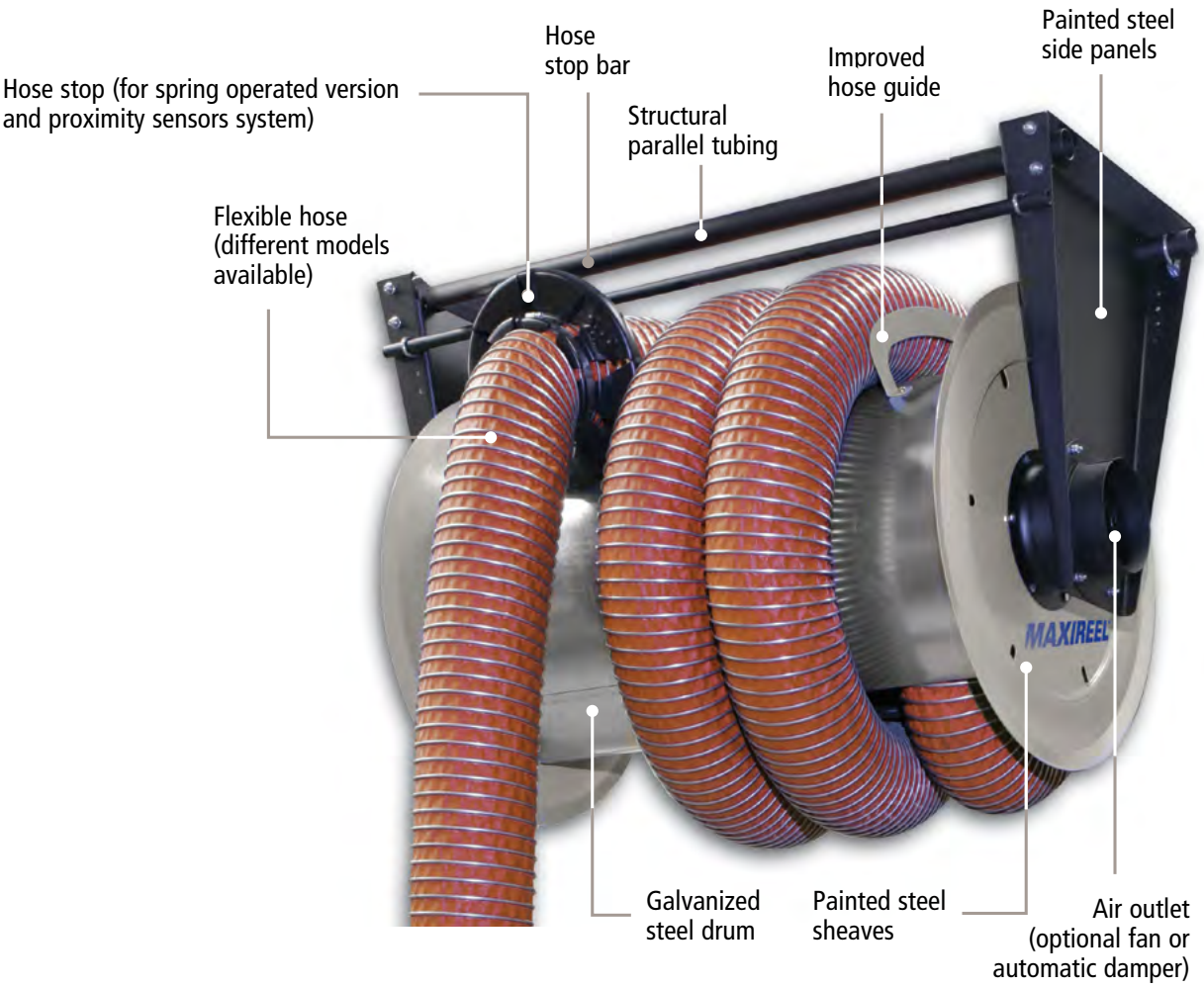


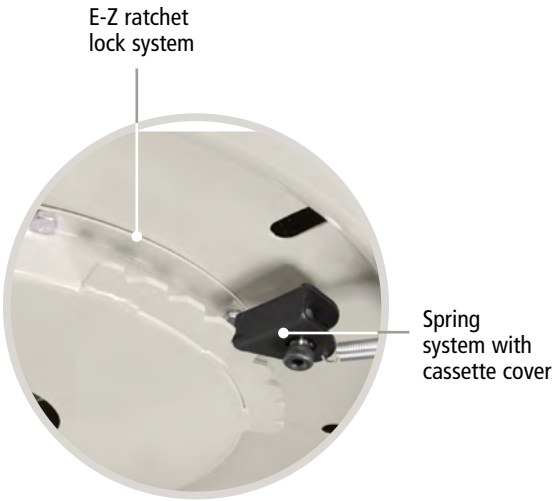
Multiple hose reel application with single exhaust fan.

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

OUTSTANDING MAXIREEL FEATURES

Spring recoil model





Note : Contact your representative for maximum weight capacities. AQC will not be held responsable of reel performance if customer uses a heavier flexible hose than maximum weight allowed.

MOTORIZED MODEL CONTROL OPTIONS



Wireless radio signal transmitter (UP/DOWN/STOP)



Pendant 3 way rotary switch (UP/DOWN/STOP)



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



Wall mounted 3 way rotary switch (UP/DOWN/STOP)



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

MOTORIZED AND SPRING RECOIL MODELS

Dimensions

CHART 1

Drum width in/mm	Dimensions in/mm										Weight without hose
	A1	A2	H	L1	S1	L2	S2	J	D1	D2	lbs/kg
24/610	As per diameter of hose selected	25.5/648	32.5/826	32.8/833	12.3/312	30/762	18.8/478	18.4/467	6/152	0.5/13	65/29
34/864		25.5/648	32.5/826	43.8/1113	12.3/312	41/1041	18.8/478	18.4/467	6/152	0.5/13	105/48
39/991		25.5/648	32.5/826	48.8/1240	12.3/312	46/1168	18.8/478	18.4/467	6/152	0.5/13	115/52
45/1143 (with 6" hose)		25.5/648	32.5/826	54.8/1392	12.3/312	52/ 1321	18.8/478	18.4/467	6/152	0.5/13	160/73
45/1143 (with 8" hose)		25.5/648	34.5/876	54.8/1392	12.3/312	52/ 1321	18.8/478	20.4/518	8/203	0.5/13	160/73
48/1219		45/1143	52.6/1336	60.6/1540	24/610	55.5/1410	30.75/781	35.13/892	10/254	0.5/13	515/234
50/1270		45/1143	52.6/1336	64.6/1640	24/610	59.5/1511	30.75/781	35.13/892	12/305	0.5/13	540/245

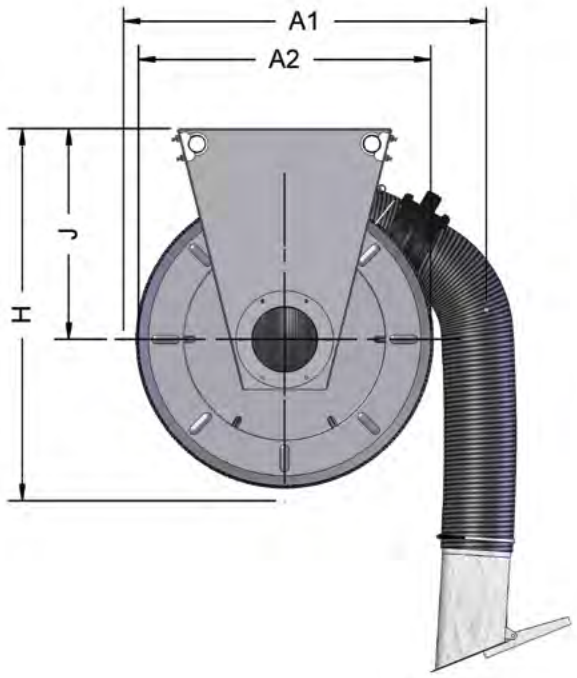
Note : 24" (610 mm) wide hose reel available in spring recoil version only.

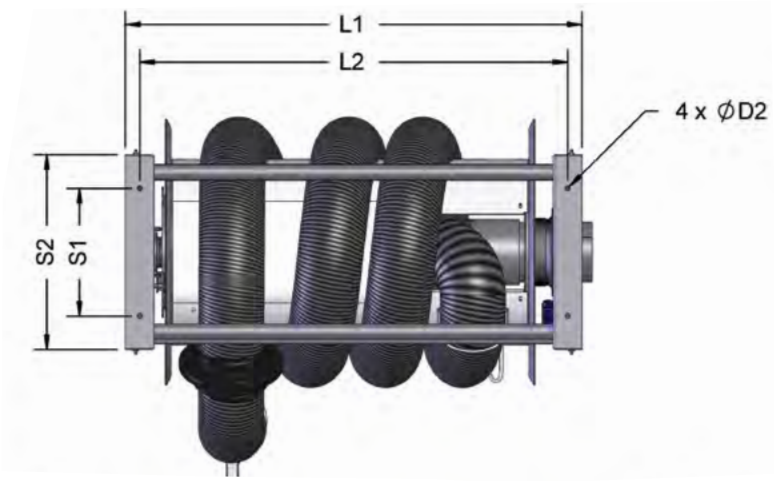
MOTORIZED AND SPRING RECOIL MODELS

Drum width

CHART 2

Hose diameter in/mm	Hose storage capacity ft/m	Drum width in/mm
3/76	25/7.6	24/610
	35/10.7	24/610
4/102	25/7.6	24/610
	35/10.7	34/864
5/127	25/7.6	24/610
	35/10.7	34/864
6/152	25/7.6	34/864
	35/10.7	39/991
8/203	25/7.6	34/864
	35/10.7	45/1143
10/254	25/7.6	34/864
	35/10.7	45/1143
12/305	35/10.7	47/1194
	38/11.6	50/1270







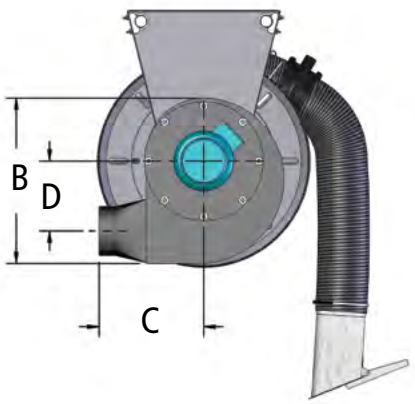
MAXIREEL DIMENSIONS WITH DIRECT MOUNTED FAN

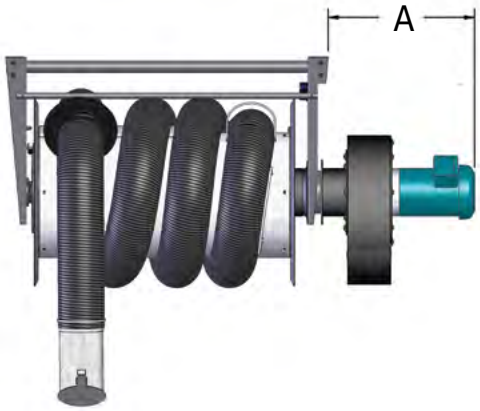
MS-HR-AS-VENT mounting bracket

CHART 3

	Dimensions in/mm			
Models	A	B	C	D
1 H.P.	22.25/565	20.19/513	12.76/324	8.52/216
2 H.P.	25.95/583	22.50/572	13.62/346	9.10/231

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



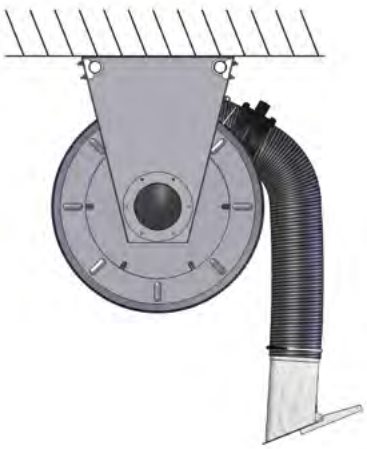


MOUNTING EXAMPLES

Wall



Ceiling or support beams



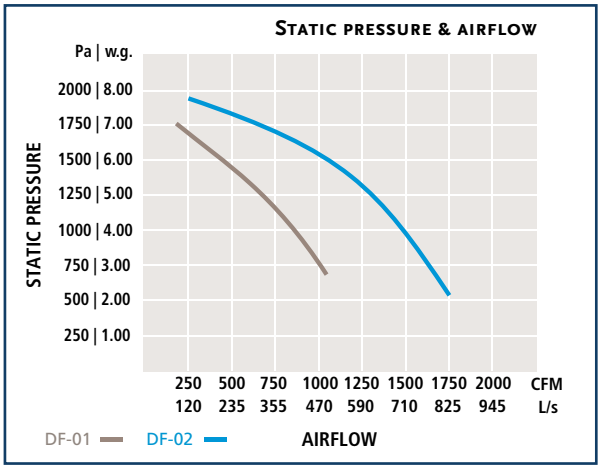
Note: MAXIREEL exhaust hose reel may be equipped with other than 25' (7.6 m) or 35' (10.7 m) hose length configuration. Contact factory for details.

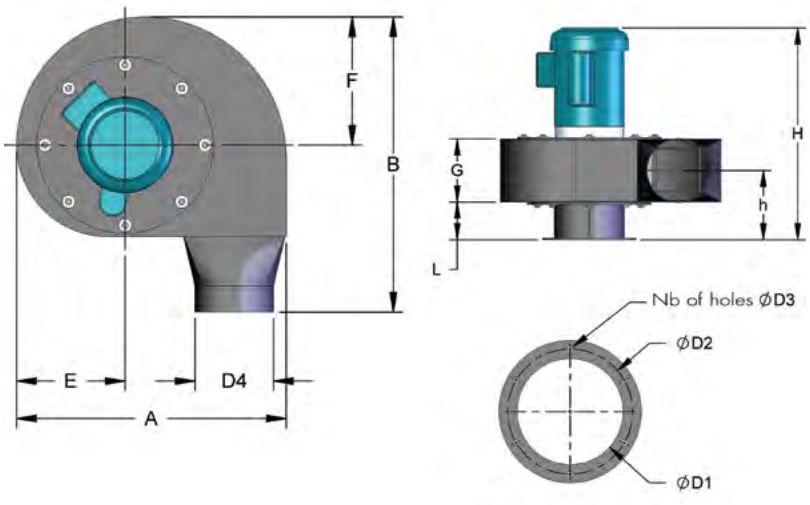
MAXIDRIVE FANS (3450 R.P.M.)

Backward inclined

CHART 4

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





Fan dimensions

CHART 5

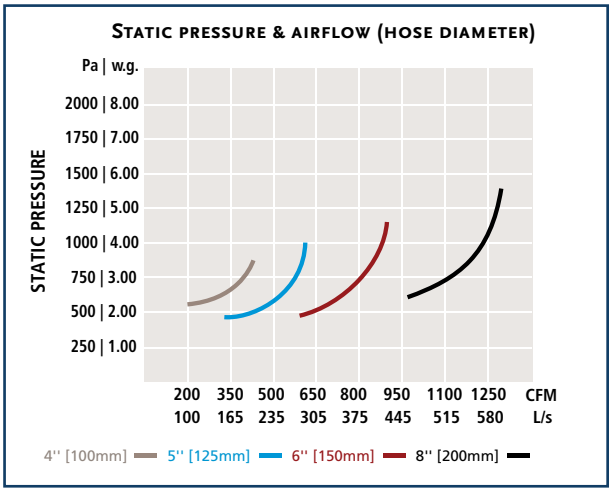
Model	Power HP	Dimensions in/mm													Weight lbs/kg
		A	B	E	F	H	L	G	h	d1	d2	d3	d4	Nb	
DF-01	1/0.75	20.1/510	22.7/577	8.2/209	9.8/249	21.25/540	4.5/114	5.9/150	7.5/191	6.2/157	7.69/195	0.38/10	5.9/151	6	70/31.8
DF-02	2/1.50	22.5/572	24.8/630	9.2/234	11/279	24.8/630	4.9/124	6.3/160	7.8/198	8.19/208	9.69/246	0.38/10	7.88/200	8	82/37.2

Electrical note: Fan motors indicated above are available in all voltages. Specify on order.
Technical note: Refer to MAXIDRIVE fan leaflet for complete data.

MAXIREEL operations

CHART 6

Vehicle type	Recommended air volume CFM / l/s	Recommended hose diameter in / mm	Recommended hose temperature °F / °C
Small to full size cars	250-300 / 117-142	4 / 102	200-300 / 93-148
Performance sports cars	450-500 / 212-236	4-5 / 102-127	500-600 / 260- 315
Large pick-up trucks / SUV's	350-400 / 165-189	4-5 / 102-127	500-600 / 260- 315
Diesel trucks / tractor trailors	700-800 / 330-378	6 / 152	500-600 / 260- 315
Heavy duty machinery and turbo diesel	1000-1200 / 471-566	8 / 203	900 -1200 / 482-649



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" (76 mm)hose submitted on request.

Optional proximity sensor for automatic fan start/stop



Optional spring damper at hose reel outlet



6" (152 mm) outlet : HR-00-06-30



8" (203 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).

TAILPIPE ADAPTORS & NOZZLES

All rubber nozzles are crush resistant



NZR-TPA 3000

Y adaptors designed for split tailpipes of up to 3" (76 mm) in diameter. Y hoses are each 24" long. Note: To be used temporarily. Not to be permanently attached to hose reel.



ZR-YA 300-400

Y adaptors designed for split tailpipes of 3" (76 mm) or 4" (102 mm) in diameter. Y hoses are each 48" long. Note: To be used temporarily, not to be permanently attached to hose reel.



NZR-F 300-350-400

Straight adaptors with hook and chain. Mesurements of 2,5"(64 mm), 3" (76 mm) or 3,5" (89 mm) in diameter.



NZR-F 475-575

3" x 6" (76 mm x 152 mm) or 3"x 8" (76 mm x 203 mm) oval shaped for dual tailpipes. Attached to tailpipes by means of hook and chain.



NZR-TWINFLAP

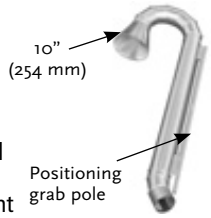
4"x 9" (102 mm x 229 mm) for side by side tailpipes rubber nozzle equipped with slotted closing flaps minimizing air loss.



NZR-RA 250-300

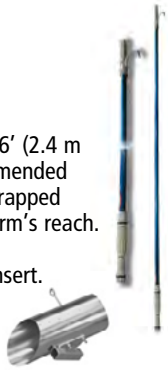
Fits most cars and light trucks tailpipes sizes. Attached to tailpipe by means of cuffs and slots.

Galvanized steel tailpipe adaptors (also available in stainless steel)



NZR-TPA 3000

Cane nozzle for diesel truck stacks and chimneys. Light weight aluminum. Usually fitted onto NZG-SD adaptor 6" or 8" (152 mm/203 mm). Note: cane nozzle is to be used temporarily, not to be permanently attached to hose reel.



NZ-POLE-SQ-HO

Telescopic aluminium pole 8' to 16' (2.4 m to 4.9 m) with grab hook. Recommended when hose and nozzle are fully wrapped around the drum and are out of arm's reach. Nozzle is fitted with 2" (51 mm) eyebolt for grab hook and pole insert.

NZG-OE-HO



NZG-SD

Spring loaded damper type. Available for all hose diameters.



NZG-PEA

Spring loaded damper type with port emission analyzer. Available for all hose diameters.



NZG-VG

Vise-grip attachment available with or without spring type loaded damper. Available for all hose diameters. Required for high RPM testing facilities.



NZG-OE

Open nozzle adaptor. No tailpipe attachment included. Available for all hose diameters.

Optional: Rag stop 1/2" x 1/2" (13 x 13 mm) wire mesh
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

Flexible hoses

CHART 6

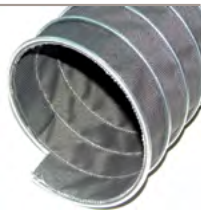
Model	Maximum temperature	Fabric	Usage	Diameters
HO-240-X	240-300 °F/115-149 °C	Cotton neoprene with exterior helix	Cars-light trucks	3" to 8" (76 to 203 mm)
HO-700-X	700-780 °F/371-416 °C	E-Glass with V4A Wire	High revolution engines, diesel trucks	3" to 8" (76 to 203 mm)
HO-900-X	900-1000 °F/482-537 °C	E-glass polyurethane with exterior helix	Quarry and heavy duty machinery	3" to 8" (76 to 203 mm)
HO-1200-X	1200-1350 °F/649-732 °C	2 ply E-glass polyurethane with exterior helix	Military tanks and other similar vehicles	3" to 8" (76 to 203 mm)

AQC will not be held liable if flexible hose selected is used for higher exhaust temperatures than the tolerance indicated in chart 7. Specify length required. Crush resistant hose available for specific applications only. Contact factory for details.

HO-240-X



HO-700-X



HO-900-X



HO-1200-X



YOUR MAXIREEL EXHAUST HOSE REEL SPECIFICATION

1. Hose reel unit:

Powder coat painted steel structural parallel tubings for stability; 10 and 12 gauge powder coat painted steel side panels and braces; hose guide bar for proper coiling and wrapping of hose around the drum; galvanized steel hose storage drum; duct exhaust flange.

2. Hose reel diameter:

- a) 3" (76 mm) ☐
- b) 4" (102 mm) ☐
- c) 5" (127 mm) ☐
- d) 6" (152 mm) ☐
- e) 8" (203 mm) ☐

3. Hose reel storage capacity:

- a) 25' (8 m) ☐
- b) 35' (10.7 m) ☐
- c) (Contact factory for other available lengths)

4. Hose reel model:

- a) 240 °F (116 °C) ☐
- b) 700 °F (371 °C) ☐
- c) 900 °F (482 °C) ☐
- d) 1200 °F (649 °C) ☐

5. Hose reel includes drum rotation by means of:

- a) Dual tempered steel springs with ratchet lock ☐
- b) Direct drive tube motor with radio remote transmitter ☐
- c) Direct drive tube motor with pendant switch ☐
- d) Direct drive tube motor with pendant switch and fan switch ☐
- e) Direct drive tube motor with wall mounted switch ☐
- f) Direct drive tube motor with wall mounted switch and fan switch ☐

6. Hose reel includes direct drive mounted fan model:

- a) DF-01 (voltage to be confirmed) ☐
- b) DF-02 for 8" (203 mm) reels only (voltage to be confirmed) ☐
- c) Control panel for reel with single fan start / stop operation (no proximity switch) ☐
- d) Proximity switch for automatic start / stop of fan ☐
- e) Control panel for single reel with single fan and proximity switch ☐

7. Hose reel includes tailpipe adaptors model:

- a) NZR-TPA 3000 ☐
- b) ZR-YA 300 ☐
- c) ZR-YA 400 ☐
- d) NZR-F 300 ☐
- e) NZR-F 350 ☐
- f) NZR-F 400 ☐
- g) NZR-F 475 ☐
- h) NZR-F 575 ☐
- i) NZR-TWINFLAP ☐
- j) NZR-RA 250 ☐
- k) NZR-RA 300 ☐
- l) NZR-TPA 3000 ☐
- m) NZ-POLE-SQ-HO ☐
- n) NZG-OE-HO ☐
- o) NZG-SD ☐
- p) NZG-PEA ☐
- q) NZG-VG ☐
- r) NZG-OE ☐

8. Hose reel side outlet includes:

- a) Reel motion activated outlet damper ☐
- b) Motorized outlet damper ☐

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

Your AQC representative is:

AQC DUST COLLECTING SYSTEMS

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