Exhaust hose reels

Superior technology generating substantial operating savings

• Car and truck dealerships
• RV, off-road maintenance shops
• Motorcycle and snowmobile dealerships
• Diesel fumes and smoke exhaust
• Spring operation or motorized

Sept 11, 2008 version. Leaflet under construction. More information to come at a later date.
MAXIREEL Fume and gases 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 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. Depending on the application, hoses are available in 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 2000°F / 1100°C) are offered for extreme duty application.

A Leading-Edge, High-Performance Company

The AQC Dust Collecting Systems division manufactures a full range of safe, industrial dust collectors, as well as dust and smoke capture equipment at the leading edge of air pollution control technologies based on more than 30 years’ 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.

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 service 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.
Maxireel exhaust exhaust hose reel typical installation and application

Maxireel™ Simply because engine fumes need to be exhausted

Most of our competitors do not include these standard features:

- Heavy gauge steel construction
- Hose temperature up to 2000 deg. F. (1100 deg. C)
- 4” (10mm), 5” (125mm), 6” (150mm) and 8” (200mm) diameter hoses
- E.Z. lock ratchet lock mechanism or motorized operation
- Hose storage capacity up to 42’ (13m)
- Shipped fully assembled
- DUAL heavy duty tempered steel spring pack
- Powder coat painted and galvanized steel components

Superior technology generating substantial operating savings

Maxireel equipped with direct mount Maxidrive fan (adjustable air discharge).

Maxireel equipped with Maxireach single pivot boom.

High temperature hose with truck stack aluminum cane nozzle.
Outstanding Maxireel features

Spring recoil model

- Painted steel side panels
- Structural parallel tubing
- Hose stop (for spring operated version and proximity sensors system)
- Hose stop bar
- Air outlet (optional damper)
- Painted steel sheaves
- Galvanized steel drum

Motorized model

- Motorized model is highly recommended for plants with overhead cranes.
- Radio signal transmitter
- Control panel for motorized version with or without fan
- 3 button pendant or wall switch (UP/DOWN/STOP)
- 5 button pendant or wall switch for reel equipped with fan (UP/DOWN/STOP) (FAN START/STOP)

Motorized model

- Dual spring system with cassette covers
- E-Z ratchet lock system
Maxireel dimensions (motorized and spring recoil models)

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions [inches] / [mm]</th>
<th>Weight [lbs] / [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>HR-20000 4” only</td>
<td>31.8/806 25.5/648 32.5/826 24.8/620 18.8/476 22/550 12.3/311 18.4/467 6/152 0.5/13 115/52</td>
<td></td>
</tr>
<tr>
<td>HR-34000 4” Hoses</td>
<td>31.8/806 25.5/648 32.5/826 43.8/1111 18.8/476 41/1041 12.3/311 18.4/467 6/152 0.5/13 115/52</td>
<td></td>
</tr>
<tr>
<td>HRM-34000 4” Hoses</td>
<td>31.8/806 25.5/648 32.5/826 48.8/1238 18.8/476 46/1168 12.3/311 18.4/467 6/152 0.5/13 123/56</td>
<td></td>
</tr>
<tr>
<td>HR-39000 8” Hoses</td>
<td>31.8/806 25.5/648 34.5/876 48.8/1238 18.8/476 46/1168 12.3/311 20.4/517 6/152 0.5/13 140/64</td>
<td></td>
</tr>
</tbody>
</table>

Note: HR prefix letters indicate spring recoil model. HRM prefix letters indicate motorized model.

Maxireel 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

Maxireel dimensions with direct mount
Maxidrive fan (motorized and spring recoil models)

<table>
<thead>
<tr>
<th>Models</th>
<th>Dimensions [inches] / [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 H.P.</td>
<td>22.25/555 20.19/505 12.76/320 8.52/215</td>
</tr>
<tr>
<td>2 H.P.</td>
<td>25.95/650 22.50/560 13.62/340 9.10/225</td>
</tr>
</tbody>
</table>

Note: AQC can manufacture extra wide hose reel drums for additional hose storage. Contact factory for details.
Maxidrive fans (3450 R.P.M.)

Backward inclined

|-------|------------|---------------------------|---------------------|

Electrical note: Motors are available in all voltages. Specify on order.
Technical note: Refer to Maxidrive fan leaflet for complete data.

Temperature note: if exhaust temperature exceeds 400 °F [205 °C] with ambiant air dilution, use powder coat painted steel impellers on Maxidrive fans.

Optional proximity sensor for automatic fan start/stop

Recommended starters for reels equipped with proximity switches

<table>
<thead>
<tr>
<th>Type</th>
<th>Control box</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB 100</td>
<td>(single reel)</td>
</tr>
<tr>
<td>CB 500</td>
<td>(up to 5 reels)</td>
</tr>
<tr>
<td>CB 1000</td>
<td>(up to 10 reels)</td>
</tr>
<tr>
<td>CB 2000</td>
<td>(up to 20 reels)</td>
</tr>
</tbody>
</table>

Note: Static pressure drop indicated is with 75% of hose used. Pressure loss chart does not include exhaust ducting.
**Tailpipe Adaptors & Nozzles**

**Rubber adaptors protect chrome tailpipes**

- **NZR-TPA3000**
  - Designed for split tailpipes up to 3” (75mm) in diameter. (crush-resistant)

- **NZR-TWIFLAP**
  - 4” X 9” (100mm X 225 mm) rubber nozzle equipped with closing flaps minimizing air loss.

- **NZR-F400**
  - Straight adaptors with hook and chain. Up to 3.5” (90mm) in diameter. (crush-resistant)

- **NZR-F475**
  - 3" X 6" (75x150mm) oval shaped for dual tailpipes. Attached to tailpipe by means of hook and chain. (crush-resistant)

- **NZR-F575**
  - 3.5”x8.5” (90x215mm) oval shaped for larger dual tailpipes. Attached to tailpipe by means of hook and chain. (crush-resistant)

- **NZR-RA250-300**
  - Fits most car and light truck tailpipe sizes. Attached to tailpipe by means of cuffs and slots. (crush-resistant)

- **NZG-SD**
  - Spring loaded damper type. Available from 4” to 8” (100 to 200mm).

- **NZG-SLEA**
  - Spring loaded damper type with port emission analyzer. Available from 4” to 8” (100 to 200mm).

- **NZG-VG**
  - Available with or without spring loaded damper type with vice-grip attachment. Available from 4” to 8” (100 to 200mm). Required for high RPM testing facilities.

- **NZG-OE**
  - Open nozzle adaptor. No tailpipe attachment included. Available from 4” to 8” (100 to 200mm).

**Maxireel hoses**

**Flexible hoses**

<table>
<thead>
<tr>
<th>Model</th>
<th>Maximum temperature</th>
<th>Fabric</th>
<th>Usage / Application</th>
<th>Diameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>CN2</td>
<td>250-300°F / 105-135°C</td>
<td>Cotton neoprene with helix (2 ply)</td>
<td>Cars-light trucks</td>
<td>4 to 8” (100 to 200 mm)</td>
</tr>
<tr>
<td>ULK</td>
<td>500-600°F / 240-300°C</td>
<td>Silicone fiberglass with helix (2 ply)</td>
<td>High revolution engines</td>
<td>4 to 8” (100 to 200mm)</td>
</tr>
<tr>
<td>CR</td>
<td>500-600°F / 240-300°C</td>
<td>Anti-flattening rubber (no helix)</td>
<td>Y adaptors for split tailpipes</td>
<td>3, 4, 5, 6” (75, 100, 125, 150 mm) (for extension hoses only)</td>
</tr>
<tr>
<td>TS</td>
<td>850°F / 450°C</td>
<td>Asbestos-free high temperature fabric</td>
<td>Extreme temperature</td>
<td>4 to 8” (100 to 200mm)</td>
</tr>
</tbody>
</table>

**Note:** Maximum weight tolerance on hose reel is 55 lbs (25 kg). If heavier hose is required, AQC recommends heavy duty springs or motorized virgin. AQC will not be held responsible for hose reel operation if customer installs heavier hose than maximum weight tolerance.
**Options**

- Gravity or motorized dampers
- Proximity switches for automatic fan start/stop
- Powder coat painted impeller steel for high temperature application
- Fan starters

### Create Your Maxireel Exhaust Hose Reel Specification

1. **Hose Reel** should include structural parallel tubings for stability
2. **Hose Reel** should include powder coat painted steel side panels and braces
3. **Hose Reel** should include a guide bar for proper storage of hose

<table>
<thead>
<tr>
<th>4. <strong>Hose Reel Should Include Hose Diameter Of:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>a) 4” (100mm)</td>
</tr>
<tr>
<td>b) 5” (125mm)</td>
</tr>
<tr>
<td>c) 6” (150mm)</td>
</tr>
<tr>
<td>d) 8” (200mm)</td>
</tr>
</tbody>
</table>

5. **Hose Reel Should Have Storage Capacity Of:**

| a) 25’ (7.7 M) |
| b) 33’ (10 M) |
| c) 42’ (13 M) |

6. **Hose Reel Should Include Hose Fltemperature Rating Of:**

| a) 250 °F [120 °C] Cotton neoprene hose |
| b) 600 °F [315 °C] Silicone fiberglass hose |
| c) 850 °F [450 °C] Teflon fiberglass hose |

7. **Hose Reel Should Include Drum Rotation By Means Of:**

| a) dual tempered steel springs with ratchet lock |

| e) direct drive tube motor [115-1-60] with radio remote transmitter |
| f) direct drive tube motor [115-1-60] with wall mounted switch and fan switch |

8. **Hose Reel Should Include Direct Drive Mounted Fan Model:**

| a) DF-01 (voltage to be confirmed) |
| b) DF-02 for 8” [200mm] reels only (voltage to be confirmed) |
| c) proximity switch for automatic start/stop of fan |
| d) control panel for reels equipped with proximity switches (see chart on page 6) |

9. **Hose Reel Should Include Tailpipe Adaptors Model:**

Selection to be made from list of available adaptors in this leaflet (page 7).

10. **Hose Reel Should Include:**

| a) flange connection to exhaust duct |
| b) air outlet damper |
| c) motorized air outlet damper |

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