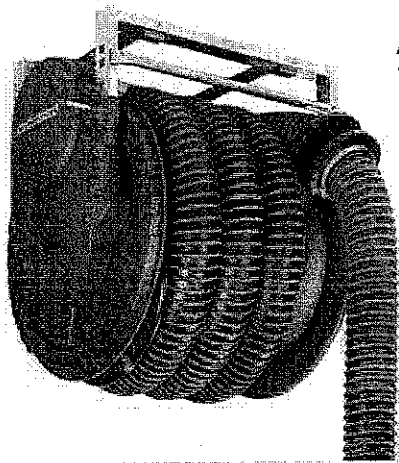


EXHAUST HOSE REEL



Nederman[®]
Improving your workspace

SER. 865

INSTRUCTION MANUAL

No. 148956/02

EXHAUST HOSE REEL

SPRING RECOIL

This product is designed to meet the requirements of the relevant EC directives. To maintain this status all installation, repair and maintenance work must be carried out by qualified personnel using only original spare parts. Contact your nearest authorised dealer or Nederman, Inc. for advice on technical service or if you require spare parts.

Applications

Nederman Exhaust Reel is designed for stationary use only and can, depending on hose diameter, be connected to cars, trucks or other vehicles with similar motor sizes.

The following airflows are recommended:

Reels for Cars:
3" - 4" Hose
235 - 350 cfm

Reels for Trucks:
5" - 6" Hose
470 - 700 cfm

WARNING!

Risk of explosion!

The reel must not be used for other purposes than exhaust extraction.



Technical Data

Weights

Short Reel:

- without hose: 51 lbs.
- with hose and nozzle: 66-82 lbs

Wide Reel:

- without hose: 68 lbs.
- with hose and nozzle: 82-110 lbs

Recommended Mounting Height

Maximum 20 ft.

Duct Connection

Ø 6.3 in.

Recommended Airflows

cars, 3"-4" hose:

235 - 350 cfm

trucks, 5"-6" hose:

470 - 700 cfm

Operating Temperature

15 °F to + 120 °F

Hose Temperature Resistance

Hose NR-CP or NR-B:

300 °F continuously

Hose NFC-3:

570 °F continuously

Noise Level

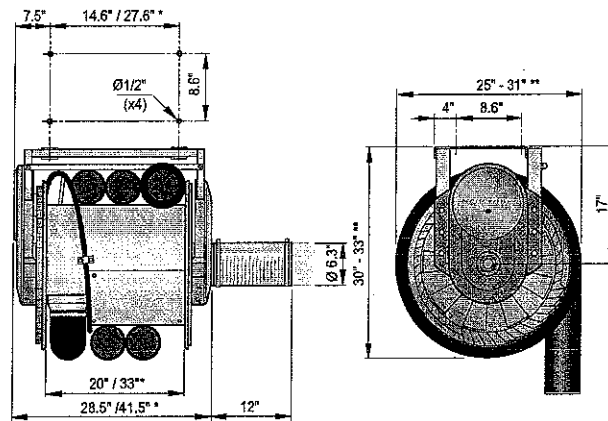
Measured according to ISO 11201

< 70 dB(A).

Material Recycling

Reels without hose: 100 weight-%

Dimensions



* short / wide reel respectively

** depending on hose diameter

Mounting Instruction

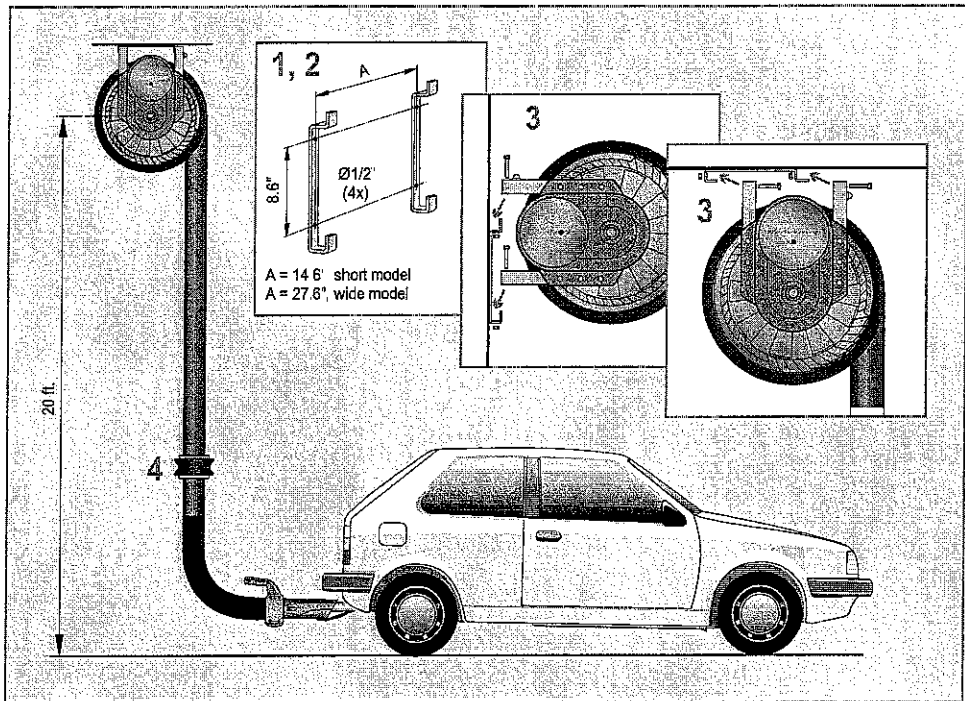
Maximum mounting height for the reel is 20 ft. (see picture).

1. Make sure that the surface, on which to mount the reel, is level. Drill 4 holes, using the hole template which comes in the package

2. Fit the mounting brackets in such a way that will make the reel hang horizontally. Ensure that suitable fixing bolts are used considering the ceiling or wall construction material. The bolts must each stand a tractive force of minimum 1460 lbf

3. Use approved lifting equipment to lift the reel. Fasten the reel in the brackets

4. Fit the hose stop on the hose in such a position that the nozzle stops in a desired position when the hose is reeled



Safety Lock

WARNING !



Risk of personal injury.

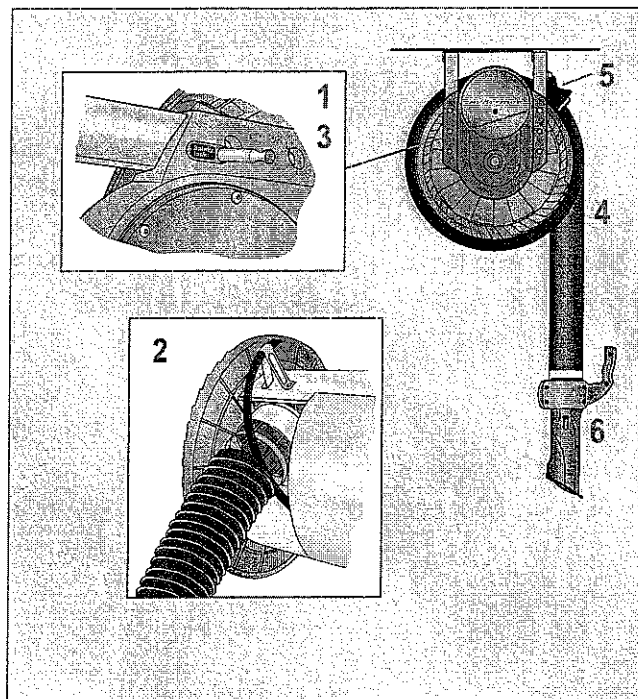
The reel is equipped with a safety lock which should be used during service or repair work on the reel, for example when mounting or changing the hose.

Note! When changing the spring, the spring power must be completely neutralized (instruction is delivered together with the spare part spring).

Mounting the Hose

When the reel has been mounted on wall or ceiling, the hose is mounted in the following way (concerning reels delivered without hose only):

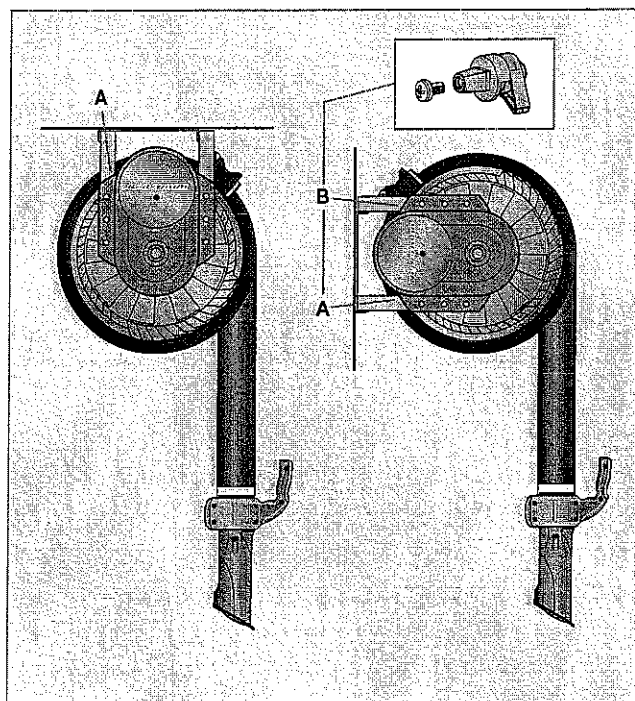
- 1 Check that the safety lock is pressed down
- 2 Fasten the hose with a hose clip on the connecting piece inside the drum
- 3 Pull out the safety lock
- 4 Let the hose slowly recoil to the drum. Ensure that the hose only forms one layer on the drum.
- 5 Fit the hose stop on the hose in such position that the nozzle stops in a desired position when the hose is recoiled
- 6 Fit the nozzle



Ratchet Device

The reel is fitted with a ratchet device which lock's the hose in the desired position. The ratchet is released when the hose is pulled out slightly further and the hose is then automatically recoiled

The ratchet is factory set for ceiling mounting of the reel (position A). When mounting the reel on wall, the ratchet must be moved from position A to B. **Note!** The ratchet must, after it has been mounted point towards the center of the reel

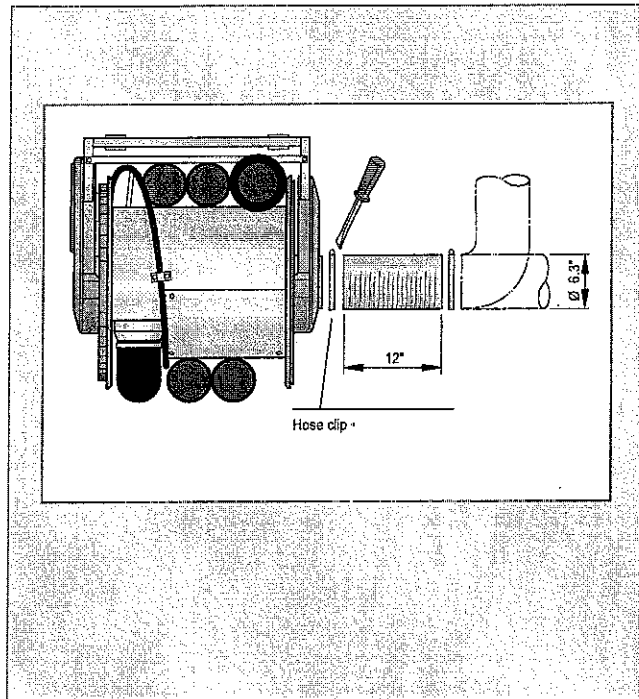


Connecting Duct

The connection hose supplied with the reel should be used for connecting the reel to duct systems and a central fan. **Note! The duct must be fitted with hose clips. Do not drill or fit with screws**

Fan positioning

A suitable fan can be selected from the Nederman fan range. To avoid leakage in the ducting system, the fan should be positioned outdoors or as near the duct outlet in the room as possible



Adjustment of Spring Tension

The reel has factory set basic spring tension which after mounting the reel with hose and nozzle could require adjustment.

Note: Do not tension the spring more than is needed to exactly roll the hose to its position of rest.

Increasing the spring tension

(mounted reel):

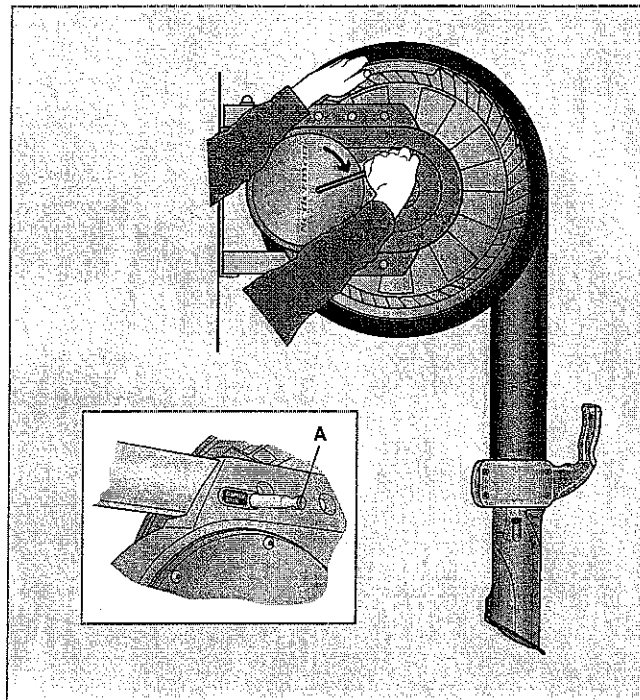
1. Make sure that the hose is in place and fully recoiled on the reel.
2. Use the socket head cap spanner which comes with the reel. Turn in the direction of the arrow as shown in the picture.
3. Tension the spring in small steps and test the coiling operation gradually.

Check that the hose can be fully uncoiled without stretching the spring to its maximum.

Decreasing the spring tension

(mounted reel):

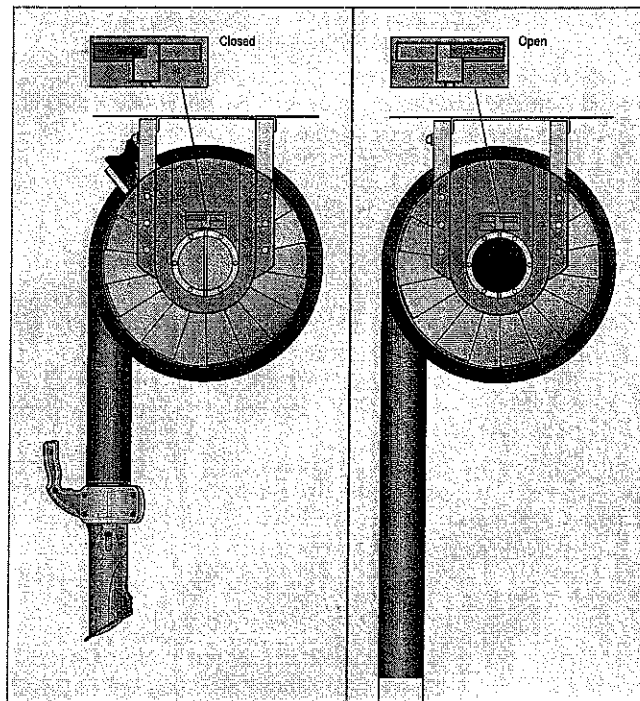
1. Make sure that the hose is in place and fully recoiled on the reel.
2. Push the safety catch (A).
3. Remove the hose stop and nozzle.
4. Remove one coil of hose.
5. Refit the hose stop and nozzle.
6. Draw out the safety catch (A).



Damper Function

The reel is fitted with a mechanical damper which automatically opens when the hose is pulled out. The damper closes when the hose is rewound.

The damper is equipped with a green and red mark which shows if the damper is open or closed



Direction of Use

Connection

Pull the hose out to the desired position and make sure that it is in engaged position. Connect the nozzle to the vehicle exhaust pipe.

WARNING!

Risk of severe personal injury.

- Check that there is enough suction in the exhaust hose before it is connected to the vehicle's exhaust pipe. If not, check the fan's rotation direction and/or damper function. If necessary check installation of fan start switch.
- An exhaust gas detector is recommended.

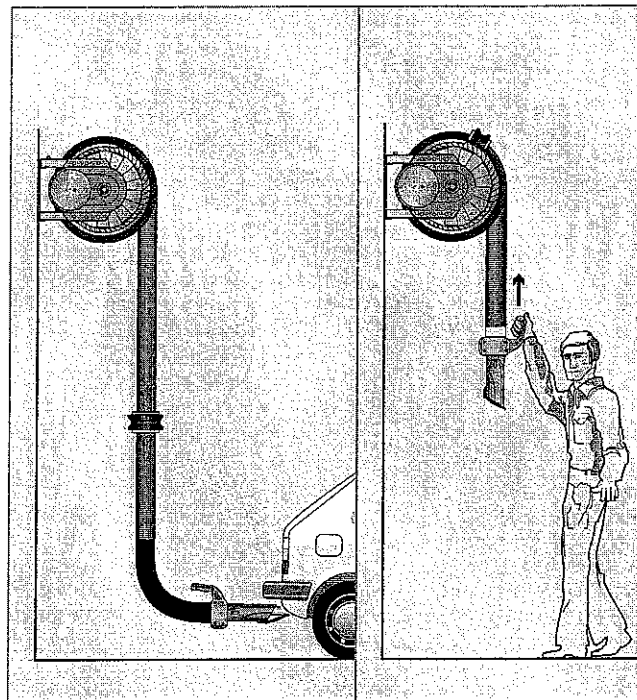
Disconnection

Disconnect the nozzle from the vehicle exhaust pipe. Draw the hose out a little to disengage the ratchet. The hose now recoils to the drum and **should be held by hand** until it has moved to its end position. Make sure that the hose only forms one layer on the drum.

IMPORTANT!

If the hose is pulled out too far, the ratchet could unfortunately become permanently locked. It may be released by the following procedure.

1. Take a steady grip in the drum end plate and turn a little in the outdraw direction until the ratchet is disconnected.
2. Hold the end plate and hose at the same time, then slowly release until the hose has been recoiled.
3. Fit the ratchet in the other mounting position.



Service Instruction

Check the following points at least once a year. Take actions when necessary.

- Check that the reel is secured in the ceiling or on the wall.
- Check the duct connections for leakage
- Check the hose for damage.
- Check the coiling function of the hose. Adjust the spring power when necessary.
- Check the hose connection in the connection piece inside the drum
- Check operation of the damper. The damper should open automatically when the hose is pulled out.
- Check that there is enough suction in the exhaust hose. If not, check the fan's rotation direction and/or damper function. Check the hose for holes

Accessories

Hoses / Nozzles

The Nederman range of hoses and nozzles can meet most requirements.

Fans

A suitable fan can be selected from the Nederman NIF Series Collection

Fan bracket

For mounting the fan on the reel

On/off switch

Controls the fan when the hose is coiled and uncoiled

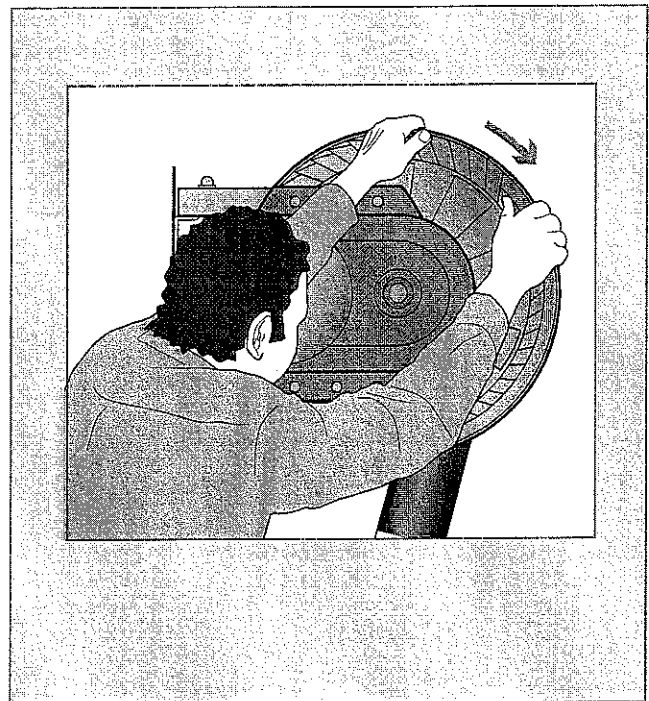
Fan control devices

Transformer

For fan operation

Automatic damper

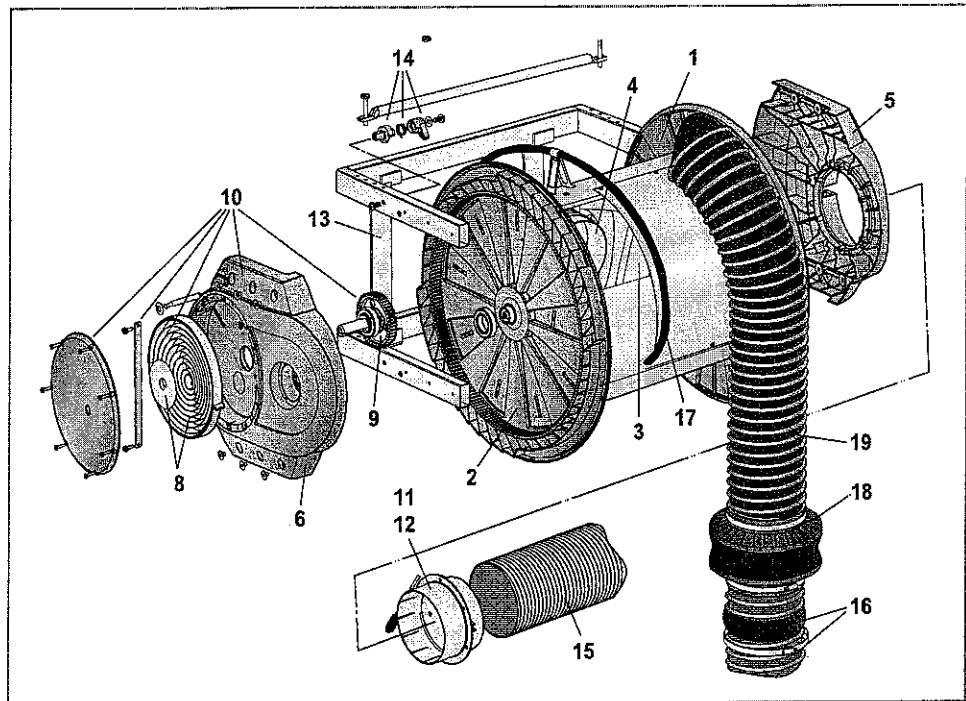
Regarding accessories, please contact a Nederman representative for brochures and technical advice



Spare parts

When ordering parts
always state:
- Part Number and Control Number (from
the type label of the product)
- Detail Number of the spare part and
the name (as per list below).
- Quantity of the parts required.

- 1 Drum end plate swivel side
- 2 Drum end plate spring side
- 3 Inner tube
- 4 Connecting piece
- 5 Gable, swivel side
- 6 Gable, spring side
- 8 Spring
- 9 Spring hub, complete
- 10 Spring side complete
- 11 Bearing
- 12 Bearing incl damper
- 13 Suspension brackets, pair
- 14 Ratchet device
- 15 Connecting hose
- 16 Rubber cover / Hose clip
- 17 Hose guide
- 18 Hose stop
- 19 Hose



ENGLISH

Declaration of conformity

We, AB Ph. Nederman & Co., declare under our sole responsibility that the product **Exhaust hose reel serial 865** to which this declaration relates is in conformity with the following standards or other normative documents:
EN 292-1:1991, EN 292-2:1991,
following the provisions of Directive:
98/37/EC

Nederman® **CE**

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2002-08-01

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Lars Fagerberg Product Manager