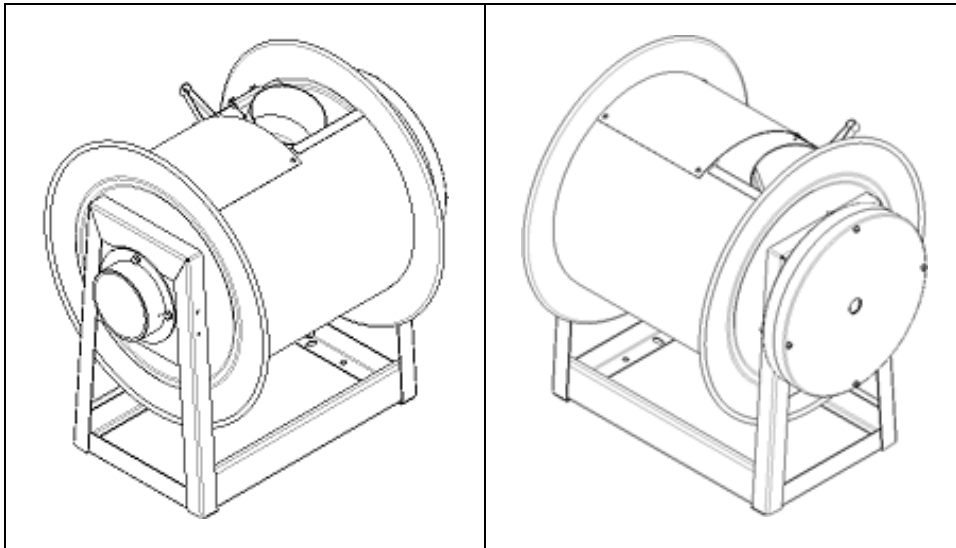




EXHAUST VENTILATION REEL:  
SERIES 300



**COXREELS**

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COXREELS liability on any claim, whether in contract, tort (including negligence), or otherwise, for any loss or damage arising out of, connected with, or resulting from the manufacture, sale, delivery, resale, repair, replacement or use of any products or services shall in no case exceed the price paid for the product or services or any part thereof which give rise to the claim. In no event shall COXREELS be liable for consequential, special, incidental or other damages, nor shall COXREELS be liable in respect of personal injury or damage to property not the subject matter hereof unless attributable to gross misconduct of COXREELS, which shall mean an act or omission by COXREELS demonstrating reckless disregard of the foreseeable consequences thereof.

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**NOTE: All designs, specifications, and dimensional data contained in this publication are subject to change without notice.**



## WARNING – APPLICATION

- ❖ THE PRODUCTS IN THIS INSTALLATION AND MAINTENANCE MANUAL HAVE BEEN TESTED UNDER CONTROLLED LABORATORY CONDITIONS TO MEET SPECIFIC TEST CRITERIA. THESE TESTS ARE NOT INTENDED TO REFLECT THE PERFORMANCE OF THE PRODUCTS OR ANY OTHER MATERIAL IN ANY SPECIFIC APPLICATION, BUT ARE INTENDED TO PROVIDE THE USER WITH APPLICATION GUIDELINES. THE PRODUCTS ARE INTENDED FOR USE BY KNOWLEDGEABLE PERSONS HAVING THE TECHNICAL SKILL NECESSARY TO EVALUATE THEIR SUITABILITY FOR SPECIFIC APPLICATIONS.



## WARNING – USER RESPONSIBILITY

- ❖ THE USER, THROUGH ITS OWN ANALYSIS AND TESTING, IS SOLELY RESPONSIBLE FOR MAKING THE FINAL SELECTION OF THE SYSTEM AND COMPONENTS AND ASSURING THAT ALL PERFORMANCE, ENDURANCE, MAINTENANCE, SAFETY AND WARNING REQUIREMENTS OF THE APPLICATION ARE MET.
- ❖ TO THE EXTENT THAT COXREELS PROVIDE COMPONENT OR SYSTEM OPTIONS BASED UPON DATA OR SPECIFICATIONS PROVIDED BY THE USER, THE USER IS RESPONSIBLE FOR DETERMINING THAT SUCH DATA AND SPECIFICATIONS ARE SUITABLE AND SUFFICIENT FOR ALL APPLICATIONS AND REASONABLY FORESEEABLE USES OF THE COMPONENTS OR SYSTEM.



## WARNING – SAFETY

- ❖ READ ALL SAFETY INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING TO INSTALL, OPERATE, OR MAINTAIN THIS PRODUCT. ONLY QUALIFIED PERSONNEL SHOULD UNDERTAKE THE INSTALLATION AND COMMISSIONING OF THIS PRODUCT. FAILURE TO COMPLY WITH INSTRUCTIONS COULD RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE.
- ❖ FAILURE TO FOLLOW RECOMMENDED APPLICATION INFORMATION AND RECOMMENDED PROCEDURES FOR SELECTION, INSTALLATION, CARE, MAINTENANCE AND STORAGE OF REEL ASSEMBLY, SWIVEL, HOSE, COUPLINGS OR HOSE ASSEMBLIES MAY RESULT IN FAILURE TO PERFORM PROPERLY AND MAY RESULT IN DAMAGE TO PROPERTY AND SERIOUS BODILY INJURY.
- ❖ FOLLOW GOOD MAINTENANCE PRACTICES – ESTABLISH A PROGRAM OF INSPECTION, TESTING AND REPLACEMENT OF REEL COMPONENTS, ACCESSORIES AND OR BRACKETS FROM FACTORS INCLUDING:
  - SEVERITY OF APPLICATION
  - FREQUENCY OF EQUIPMENT USE
  - PAST PERFORMANCE OF REEL COMPONENTS
- ❖ ONLY PROPERLY TRAINED PERSONS SHOULD INSPECT, TEST OR SERVICE REEL AND HOSE/CABLE ASSEMBLIES. PERIODIC UPDATING OF TRAINING IS RECOMMENDED.
- ❖ DOCUMENT MAINTENANCE, INSPECTIONS AND TESTING.

# SAFETY



## PRESSURE WARNINGS

- This equipment should be properly installed before use in accordance with local codes and ordinances.
- The pressure to and from the hose reel should be released and disconnected from the hose reel before any service functions are performed.
- This hose reel must not be used for pressure greater than the rating listed in the COXREELS catalog / website [www.coxreels.com](http://www.coxreels.com).



## OPERATIONAL WARNINGS

- Exercise care when handling the hose reel during normal operation. Some hose reels have a rotating drum powered by a spring under tension or chain, sprocket and gears.
- Do not use hose different from that for which the reel is intended. Changes in diameter, weight per foot, length of hose or flexibility (Minimum Bend Radius) will affect the operation of the reel.
- Mounting hardware and fasteners should be installed to maintain tightness under vibration and checked periodically to ensure tightness.
- Overhead installation mountings should be such that the reel is not supported solely by bolts in tension. A safety chain, cable, enclosure or netting is strongly recommended to minimize damage and/or possible injury in the event of a mounting failure.



## MAINTENANCE WARNINGS

- Modification of the equipment may cause excessive wear and will void the warranty. Contact COXREELS regarding changes or modifications of equipment which could affect reliability or safety.
- **DO NOT DISASSEMBLE A SPRING MOTOR FOR ANY REASON!** Serious personal injury could result. Some hose reels are equipped with a spring under tension. Contact COXREELS for assistance.

800-COX-REEL  
Toll Free Fax: 800-229-REEL  
Email: [info@coxreels.com](mailto:info@coxreels.com)



## SPECIFICATIONS & LISTINGS

- The identified Series of Hose Reel products within this manual are not certified or listed by any independent certifying or regulatory body.
- This series of hose reels is intended for industrial use and are provided with permanent mounting means, with the exception of the portable reel models.



## PRESSURE & TEMPERATURE RATING

- All reels covered in this manual with or without hose have specific ratings. (Please refer to the COXREELS catalog, website or contact Customer Service for reel specific data). Reels should not be used at pressures greater than overall reel rating.
- Operational temperature ranges vary across the wide range of hose options. (Please refer to the COXREELS catalog, website or contact Customer Service for hose specific data). Hose reels should not be used at temperatures below or above the rating of the hose.
- The operational rating of a reel not equipped with hose is determined by the capacity of the installed hose. The pressure rating of the reel without hose must not be greater than the operational capacity of a reel. (Please refer to the COXREELS catalog, website or contact Customer Service for reel/hose specific data). Variations in the OD of higher rated hose will affect the operational capacity of the reel.



## LABELS & MARKINGS

Hose Reels with and without hose

- The marking of the hose reel provide with or without hose includes the following
  - The label on the frame includes the COXREELS name and Logo, the product catalog number, the individual product serial number, rating and what type and length of hose intended for use on the reel.
  - The maximum pressure rating for every hose reel supplied without hose is marked on the COXREELS Identification Label. Actual rating is determined by the installed hose and is not to exceed the indicated maximum operational rating. The pressure rating of the hose installed on reels provided without hose must be marked on the label upon installation.



**NOTE:** If for any reason the information is not included or the label has become illegible, please refer to the COXREELS catalog, website or contact Customer Service for reel specific data.



## PERSONAL SAFETY

- Ensure reel has been properly installed before connecting supply line.
- Before connecting to reel, be certain supply line does not exceed rated pressure of the hose reel.
- Thoroughly review the "Hose Installation" instructions to properly install hose.
- Perform "Operational Check" per instructions to ensure reel is operating properly.
- If a leak should occur after applying pressure to the reel, immediately turn off pressure source and discontinue supply line pressure.



**WARNING:** Prevent static sparking. When working around flammables, ensure that the hose reel, hose, and equipment are properly grounded.

# INSTALLATION



**WARNING:** READ THESE INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING TO INSTALL, OPERATE, OR MAINTAIN THIS PRODUCT. ONLY QUALIFIED PERSONNEL SHOULD UNDERTAKE THE INSTALLATION AND COMMISSIONING OF THIS PRODUCT. FAILURE TO COMPLY WITH INSTRUCTIONS COULD RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE.



**WARNING:** REEL SHOULD NOT BE INSTALLED ABOVE 15 FEET MAXIMUM FROM THE FLOOR.

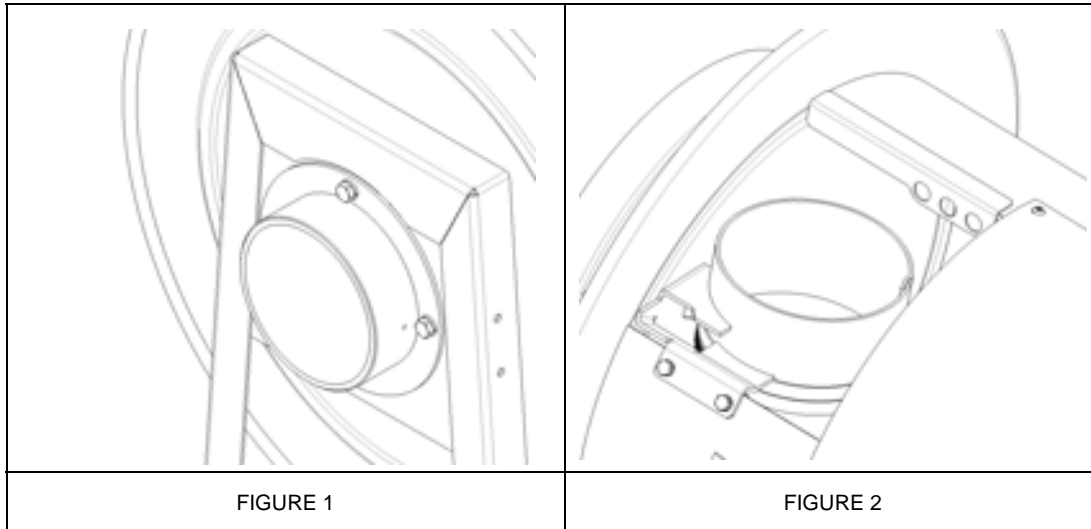
## MOUNTING OF REEL

- Mount reel to a solid structure using six 7/16" or M12 bolts, washers, and nuts. Four masonry bolts may be used depending on mounting application. Mounting hardware is NOT provided. The mounting base of the reel has two 1/2" holes and four 1/2" x 1" slots.
- Fit reel. Install hardware in reel base. Securely fasten all bolts and nuts.



## INSTALLATION OF OUTLET DUCT

- Slide duct/hose clamp of appropriate size around the open end of the Ø6" outlet exhaust duct.
- Slide opening of exhaust duct onto exhaust outlet (FIGURE 1) and push back until there is at least 1-1/2" of overlap.
- Tighten duct/hose clamp firmly around the duct and onto the outlet. Ensure that hose is held snugly in place and that there are no leaks.
- If necessary, a #10-24 threaded screw can be used to affix ducting firmly to the reel. Ensure that a high-temp sealing compound is applied to the threads to ensure it does not leak.



## INSTALLATION OF INLET HOSE

- Securely stabilize the reel.
- Wind the reel drum counter-clockwise (facing spring side) until the spring is tight.
- **Use Extreme Caution!** Back off approximately two turns and lock the reel drum to keep from rotating.
- Slide hose clamp of appropriate size around the open end of the exhaust hose.
- Slide opening of exhaust hose onto inlet adaptor (FIGURE 2) and push back until there is at least 7/8" of overlap.
- Tighten hose clamp firmly around the hose and onto the adaptor. Ensure that hose is held snugly in place and that there are no leaks.



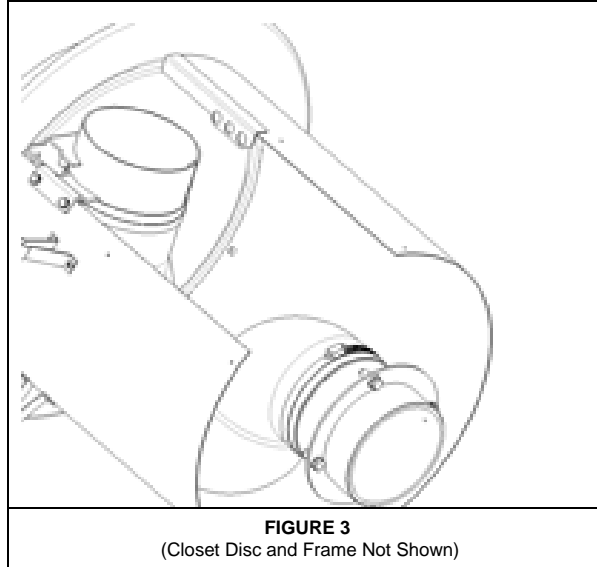
**CAREFULLY** release the locking ratchet (if so equipped) and **SLOWLY** allow the hose to retract onto the reel.



**NOTE:** See "Spring Tension Adjustment" procedure for proper tensioning of reel.

## INNER EXHAUST DUCTING REPLACEMENT

- Refer to **FIGURE 3**
- Pull out approximately 3 feet (1m) of hose and latch the reel.
- Remove hose stopper and any other hose-end attachments.
- Carefully unlatch the reel and **firmly hold the drum**. Allow the drum to **slowly** unwind until it stops.
- Completely unwind exhaust hose from reel.
- Remove all four drum-cover sheet metal screws.
- Remove drum-cover.
- Loosen both hose clamps and remove inner exhaust ducting.
- Place both hose clamps onto new inner exhaust ducting (Coxreels P/N: 8683)
- Replace drum-cover and fasten into place with the four sheet metal screws.
- Re-tension the reel by turning the drum three complete turns counter-clockwise (from spring can side) and latch the drum. Fit hose stopper and then unlatch the drum. Hose stopper should keep hose from completely retracting.



**FIGURE 3**  
(Closet Disc and Frame Not Shown)

#### OPERATIONAL CHECK

- Check reel for correct operation by slowly pulling out hose. A clicking noise will be heard after each half revolution of the drum.
- **LATCH** the reel. Pull out the hose and allow it to slightly retract after the first, second or third “click” is heard.
- **UNLATCH** the reel. Slowly pull the hose until the clicking noise stops, and then allow the hose to retract. The hose stop should rest against the hose guide.



**CAUTION:** DO NOT ALLOW HOSE TO RETRACT WITHOUT RESTRAINING RECOIL SPEED. NEVER LET GO OF THE HOSE WHEN REWINDING.

- Inspect for leaks. Periodically check hose for improper wear and swivel for possible leaks.
- Reels are shipped with approximately three pre-wraps of tension. This is adequate for most applications. However, if your application requires more or less tension, see “Spring Tension Adjustment” instructions.
- Lubrication is NOT required.

#### SPRING TENSION ADJUSTMENT

- Remove hose stopper and any other hose-end attachments.
- Add or subtract one wrap of hose as desired to acquire the proper tension on the reel.
- Install hose stopper and any other hose-end attachments.



**NOTE:** Spring tension adjustment is accomplished by adding wraps of hose around the drum (to increase tension) or subtracting wraps of hose (to decrease tension).



**CAUTION:** Improper tensioning of spring or adding too many pre-wraps may cause damage to spring mechanism. Only authorized personnel should make adjustments.

#### SPRING CANISTER REPLACEMENT

- Pull out approximately 3 feet (1m) of hose and latch the reel.
- Remove hose stopper and any other hose-end attachments.
- Carefully unlatch the reel and **firmly hold the drum**. Allow the drum to **slowly** unwind until it stops.
- Remove four nuts located on the spring canister-mounting bracket. **CAUTION:** Do not remove spring can nuts.
- Pull spring canister off center shaft.
- Reverse above procedure to re-assemble.
- Re-tension the reel by turning the drum three complete turns counter-clockwise (from spring can side) and latch the drum. Fit hose stopper and then unlatch the drum. Hose stopper should keep hose from completely retracting.



TROUBLE SHOOTING GUIDE

TROUBLE	CAUSE	REMEDY
HOSE WILL NOT FULLY RETRACT	a) Outlet nozzle, gun or tool is too heavy. b) Spring is fatigued. c) Field installed hose is too long.	a) Add spring tension. See "Spring Tension Adjustment". b) Add spring tension. See "Spring Tension Adjustment". Replace Spring Canister if required. c) Call local Distributor for correct specified hose length.
HOSE WILL NOT RETRACT AT ALL	Spring has lost all tension or has possibly broken.	a) Reinstall Spring Tension b) Replace Spring Canister. See "Spring Canister Replacement".
REEL WILL NOT LATCH	a) Incorrect operation. b) Dog spring or locking cam is broken or worn.	a) Reel latches on first, second, third or fourth "click". After forth "click" it automatically rewinds. b) Replace dog spring or locking cam.
EXHAUST LEAKS FROM HOSE	Hose is damaged or worn.	Replace exhaust hose. See inlet hose installation section. <b>Caution:</b> Be sure leak is not at Hose Fitting!
EXHAUST LEAKS FROM REEL	Inner exhaust ducting is damaged.	Replace inner exhaust ducting. See "Inner Exhaust Ducting Replacement." <b>Caution:</b> Be sure leak is not at Hose Fitting!