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PRODUCT GUIDE FOR

Ventaire

Overhead Nondisappearing

Vehicle Exhaust System

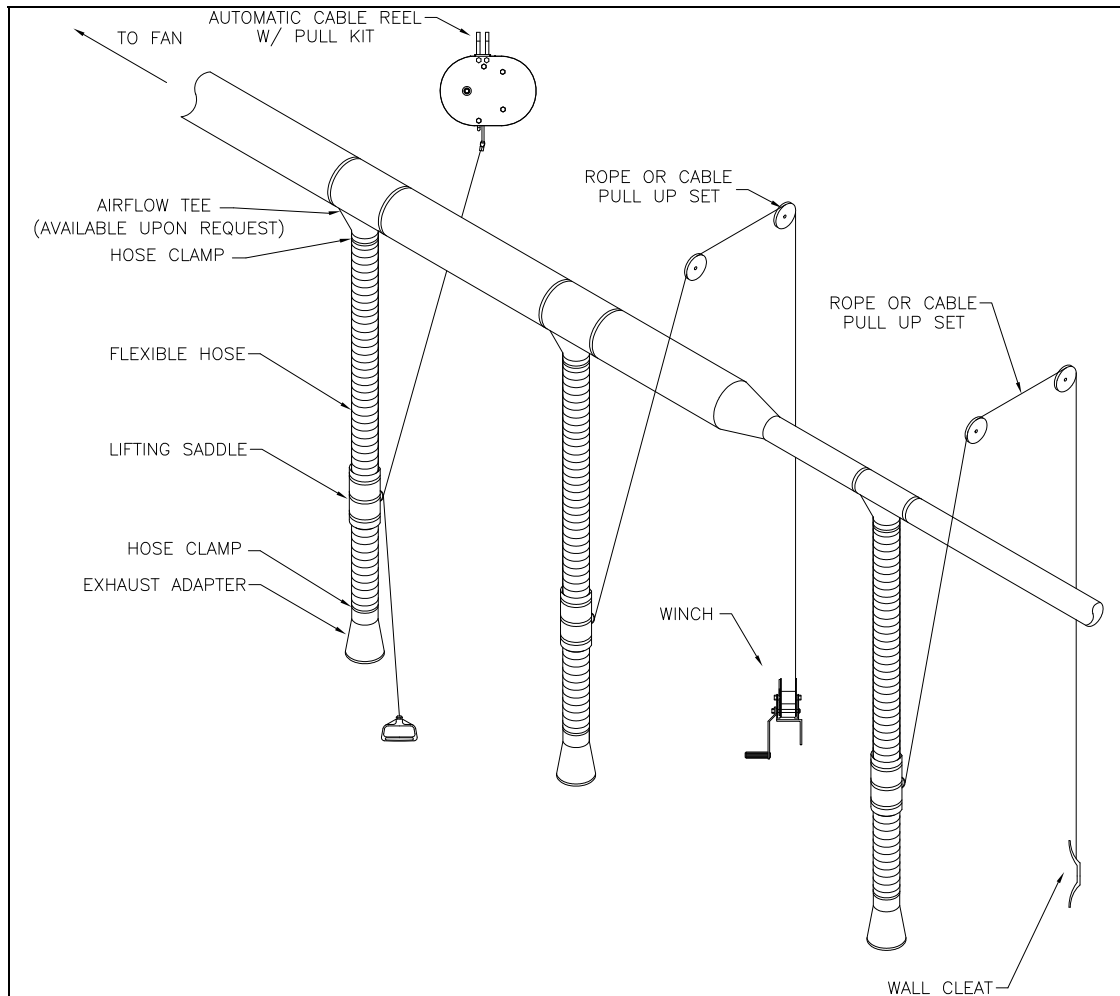


FIG 1

INTRODUCTION

1. Prior to installation inspect all the components received for shipping damage. If damage occurred contact your Ventaire representative for assistance.
2. Read **ALL** the instructions before proceeding with any installation, operation, or maintenance.

INSTALLATION

1. Install all rigid duct and duct fittings using industry standard methods to all of the drop locations.
2. Assemble the flexible hose and all the components according to the system's design. For the flexible hose's connection to the rigid duct, use the provided hose clamp. To ensure connection, rivet the flexible hose through the hose clamp to the rigid duct.
3. Attach the companion flange, ball joint, connector, or flexible hose to the duct stub on the rigid duct. For flanged systems use a duct sealant or a gasket on the hose flanges and the companion flange before attaching. For the flanged systems, attach flange on the hose set to companion flange, which is mounted on the duct stub with the bolts provided.

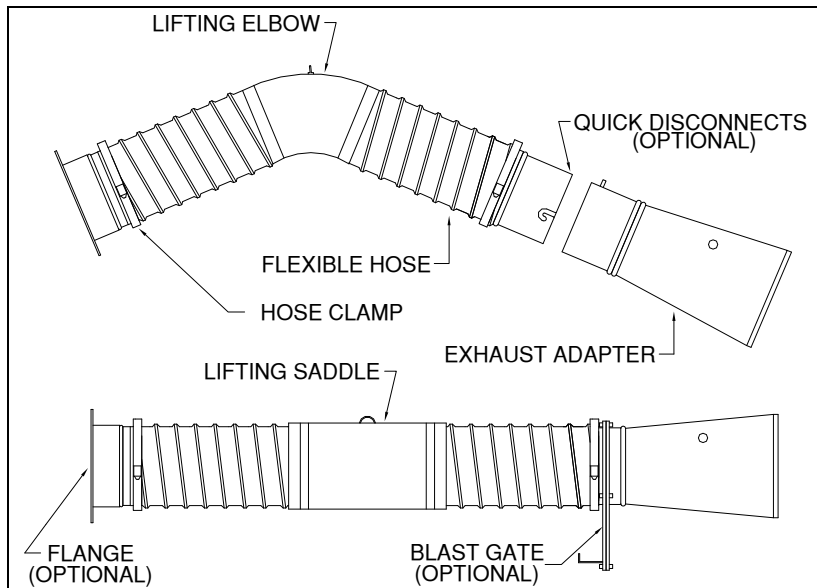


FIG 2

ACR – Automatic Cable Reel Systems Only (for all others skip to step 10)

4. Mount the automatic cable reel, ACR, to the ceiling or a wall structure using the four mounting holes in the reel base. Attach the cable, which is fastened to the ACR, to the flexible hose assembly at the adapter, lifting saddle or lifting elbow using the cable clamps provided.

Tension Adjustment: The ACR series cable reel is an open reel adjustable type balancer. Follow the instructions below to determine if the reel is adjusted properly.

WARNING: The flexible hose assembly and/or reel may be damaged if optimal reel tension is exceeded. The reel should be adjusted so that there is enough force to slowly pull up the hose to the desired height.

5. Test the reel's tension by firmly grasping the component that is directly attached to the cable and pull down until the reel's latching mechanism disengages. Slowly let the flexible hose assembly retract onto the ACR. If the reel is not pulling the hose completely proceed to step 8, or if there is excessive force proceed to step 7. If properly adjusted, installation is complete.
6. Firmly grasp the component directly attached to the cable and pull out approximately 3-6 feet of cable until the ratchet latch locks into place.
7. To increase the lifting force, pull enough cable back through the guide arm to add a loop around the reel. Coil one wrap at a time until the reel force is just enough to pull the flexible hose assembly to the desired height.
8. To decrease the lifting force, bring enough cable back through the guide arm to remove a loop from the reel. Remove one wrap at a time until the force of the reel is just enough to pull the flexible hose assembly to the desired height.

9. Repeat steps 5 – 8 until the cable reel is properly adjusted. If properly adjusted, the installation is complete.

Cable/Rope and Cleat Systems Only (for others skip to step 13)

10. Fasten the wall cleat to a wall or column approximately 4' up from the floor (See FIG 3). Mount the optional safety cleat approximately 1 foot above the wall cleat if provided. Install the safety cleat in-line with the wall cleat and pulley.
11. Install the pulleys in-line with the cleat and the overhead drop. For optional wall pulleys drill holes in wall or beams and attach using industry standard methods. For standard ceiling pulleys place one end of the S-hook through the eye on pulley and it crimp shut. Attach the other end of the S-hook in the same manner to the eyebolt or similar device on the ceiling.

NOTE: One pulley should be installed on, or near the ceiling straight above the wall cleat. The other should be installed on or near the ceiling, in-line from the first pulley and above where the flexible hose drop is raised.

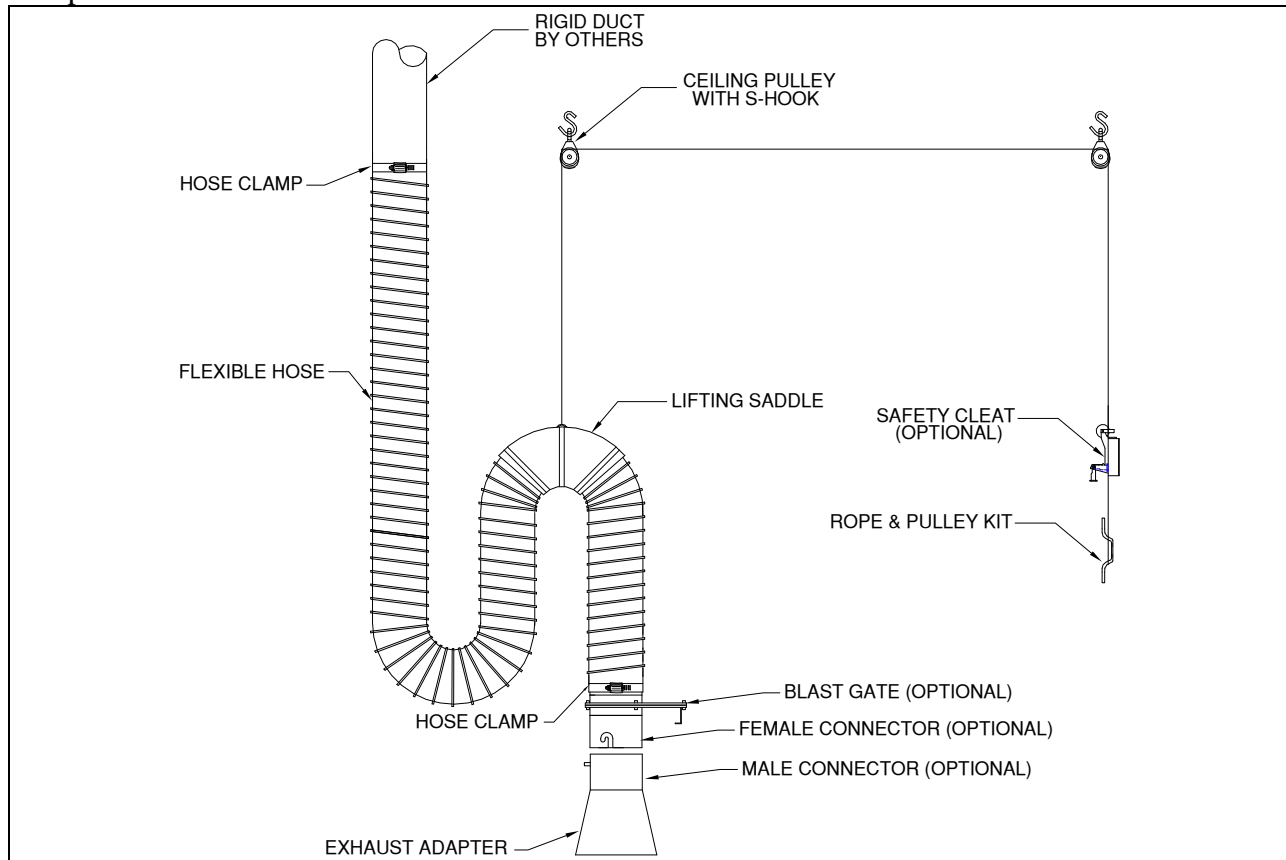


FIG 3

12. Slide the free end of the cable through the pulleys and down to the adapter on the end of the flexible hose. Loop the cable around the base of the adapter and clamp securely in place. For systems with the lifting elbow/saddle, securely attach the free end of the cable to D-ring or S-hook on the lifting elbow/saddle. For systems without the lifting saddle attach the end of the cable directly to the adaptor.

Cable and Winch Systems

13. Fasten the winch or winch bracket to the wall or column approximately 4' up from the floor.

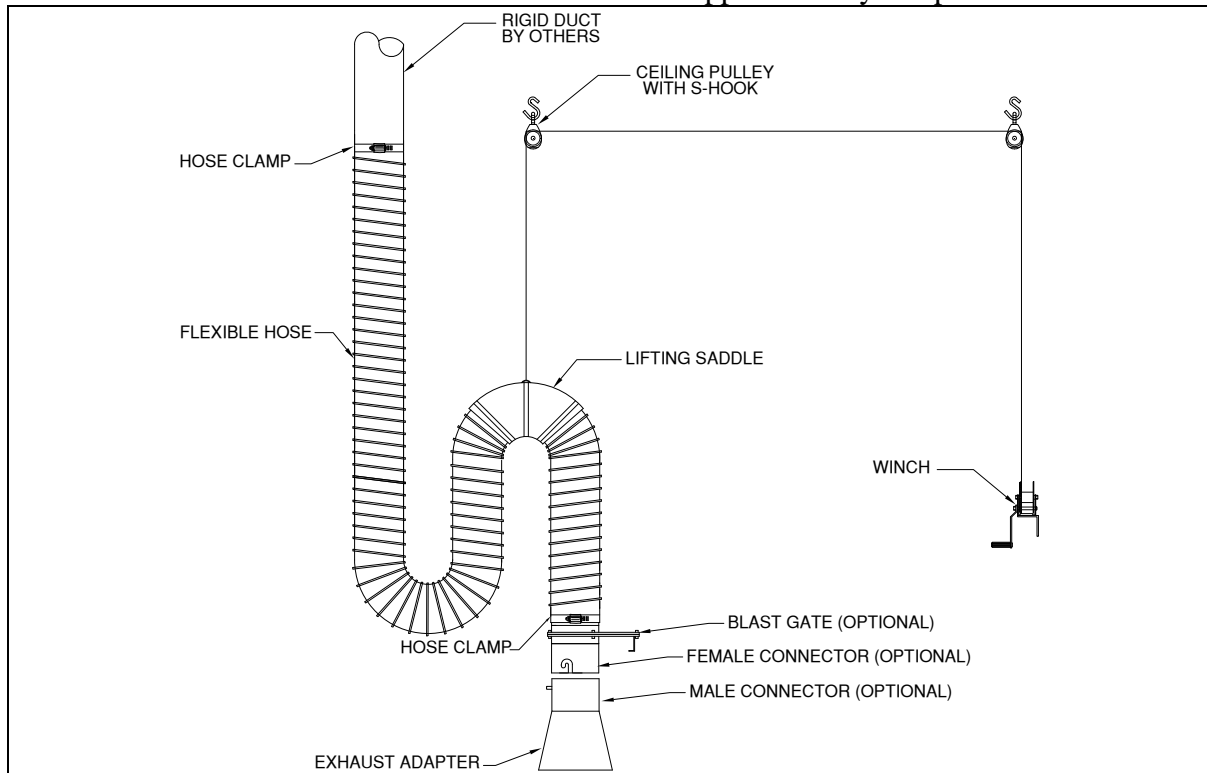


FIG 4

14. Install the pulleys in-line with the winch and overhead drop. For optional wall pulleys drill holes in the wall or a beam and attach them using industry standard methods. For standard ceiling pulleys place one end of an S-hook through the eye on the pulley and crimp it shut. Attach the other end of the S-hook in the same manner to an eyebolt or similar device on the ceiling.

NOTE: One pulley should be installed on, or near the ceiling straight above the winch or wall cleat. The other should be installed on or near the ceiling in-line with the first pulley and above where the flexible hose drop is raised.

15. Thread one end of the cable through the side plate of the winch drum and secure it to the outside of the plate using a cable keeper kit.

16. Slide the free end of cable through the pulleys and down to the adapter on the end of flexible hose. Loop the cable around the base of the adapter and clamp it securely in place. For systems with the lifting elbow/saddle, securely attach the free end of the cable to a D-ring or S-hook on the lifting elbow/saddle.

OPERATION

1. Lower the exhaust adapter or diesel stack adapter to the desired location. If a winch is used, the gear must be disengaged. **Keep a firm hold of the winch handle while lowering.** If only a cable or rope is used, it is recommended that the operators wear gloves. Make sure a very firm grip is kept on the rope or cable while lowering the adapter.
2. Re-engage the winch gear, or securely tie off the rope or cable to the wall cleat.
3. Attach the exhaust or stack adapter securely to the vehicle exhaust pipe.
4. Open any shut-off devices (blast gate, quadrant damper, etc.) and turn on the exhaust fan.
5. When finished, turn off the exhaust fan.
6. Disconnect the adapter from the exhaust pipe and raise it up and out of the way with a winch, rope, or cable.

MAINTENANCE

1. Maintenance for the exhaust fan should be performed according to the manufacturer's instructions.
2. Routinely check the flexible hose for wear to ensure proper airflow. If small holes appear in the hose, tape can be used to temporarily block them.
3. Periodically check all the connections between the hose and adapter for leakage. Tighten if necessary.
4. Periodically check the rope, chain, or cable and pulleys for excessive wear or misalignment.
5. If applicable, routinely clean and lubricate the winch gears according to instructions on red tag included with winches.
6. Keep the airflow free from any obstructions.
7. The rigid duct should require no maintenance.



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12-MONTH WARRANTY

VENTAIRE warrants their products, to the original purchaser, to be free from defects in material and workmanship under normal use and service (except for those cases which buyer supplied materials are used) for a period of 12 months from the original date of shipment. During the warranty period, **VENTAIRE**, will at its option, repair, replace, or issue credit for any components that are deemed defective by **VENTAIRE**.

Buyer's failure to pay the full amount due within (60) days of invoice shall release seller from any and all liability or obligation to any warranty.

Before returning equipment for repair or replacement, a **Return Authorization Number** must be obtained from **VENTAIRE** (952-894-6637). The **Return Authorization Number** must be written on the outside of all shipping cartons. Items returned without a **Return Authorization Number** will be refused. Items returned should be in original condition in which it was received and must be accompanied with a written explanation of the reason(s) for their return.

This warranty does **not** cover damage caused by accident, misuse, misapplication, or unauthorized service modification.