



DUST COLLECTION & SOURCE CAPTURE

Owner's manual for installation,
use and maintenance



MAXIDROP™

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1 INTRODUCTION

This present manual refers to the MAXIDROP hose drop. It includes important information concerning the installation, use and maintenance of your unit. Read this manual thoroughly and apply the directives and procedures. Staff and personnel using the system will have to trained on safety measures and maintenance instructions.



WARNING!

The use of the MAXIDROP will require proper installation and handling. Contact A.Q.C. Inc. if you have any doubt in regard to the use of your exhaust fan.

Not following directives and procedures could cause injuries or property damages.

2 INFORMATION ON THE MAXIDROP HOSE DROP

Model: _____ Serial number: _____

Delivery date: _____ Date of installation: _____

Name of customer: _____

Address: _____

Accessories: _____

Other: _____

3 PRESENTATION

The MAXIDROP hose drop is a system designed to exhaust and capture fumes, smoke or any gaseous pollutant being produced. Main applications include welding, buffing, vehicle exhaust, handling of volatile dusts, harmful vapours, etc.

4 NORMAL USE

The MAXIDROP hose drop is designed to remove gases and smoke from the air resulting from a process. Each MAXIDROP hose drop is built as per the criteria and information supplied by the customer for a specific application and should not serve any other application without the approval of A.Q.C. Inc.

5 MODEL NUMBERS

5.1 Sequence in model numbering system

5.11 Codes for lifting device

HDSP = Hose Drop Single with Pulleys

HDSB = Single Hose Drop With Balancer

Hddb = Double Hose Drop With Balancer

5.12 Codes for hose diameter (shown in inches)

3 = 3 inches 4 = 4 inches 5 = 5 inches

6 = 6 inches 8 = 8 inches

5.13 Codes for hose length (shown in feet)

16 = 16 feet 25 = 25 feet

5.14 Codes for hose temperature tolerance (shown in °F)

2 = 240°F 5 = 500°F 7 = 700°F

9 = 900°F 12 = 1200°F 15 = 1500°F

5.2 Example for complete hose drop model numbering system

Example 1: HDSB-6165: Hose Drop Single Balancer with 6" diameter hose, 16' long, 500°F hose temperature tolerance.

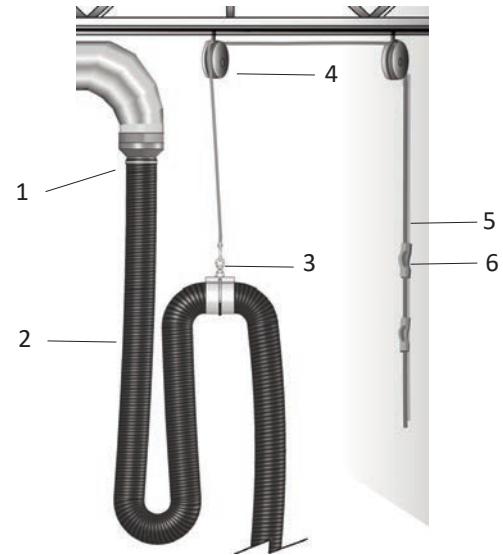
Example 2: HDDB-4252SB: Hose Drop Double Balancer with two (2) 4" diameter hoses, 25' long, 240°F hose temperature tolerance, support bracket.

Note on components: system support bracket, tailpipe adaptor and exhaust fans are optional. Not shown in components list.

6 COMPONENTS

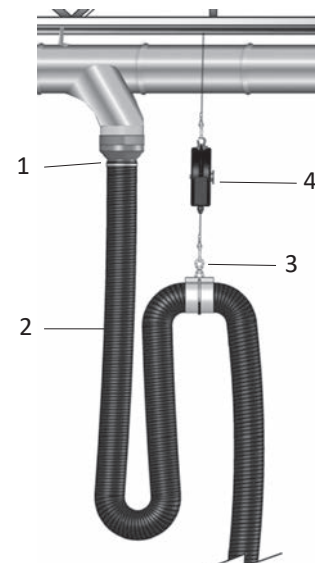
6.1 HDSP (Figure shows system installed on exhaust duct)

1. Hose clamp
2. Flexible hose
3. Hose sling with tangle free turnbuckle
4. Swivel pulleys (2)
5. 75' (23M) of braided rope
6. Wall cleats (2)



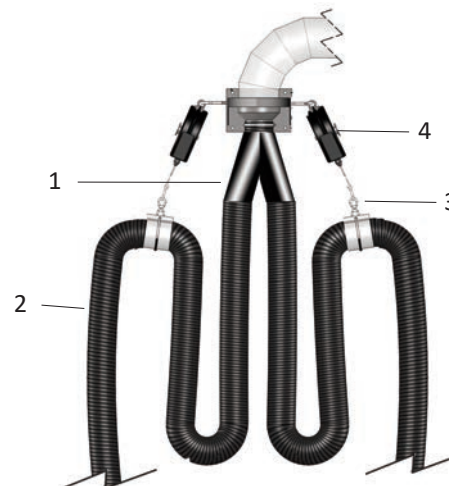
6.2 HDSB (Figure shows system installed on exhaust duct with optional chain for balancer support)

1. Hose clamp
2. Flexible hose
3. Hose sling with tangle free turnbuckle
4. Spring balancer with ratchet lock



6.3 HDDB (Figure shows system installed on optional support bracket)

1. Y adaptor
2. Flexible hoses (2)
3. Hose slings with tangle free turnbuckles (2)
4. Spring balancers (2)



7 INSTALLATION



WARNING!

Installation of equipment must be performed as per local building laws and regulations. Structure must meet proper weight support of arm and equipment.

7.1 Inspection of goods

The MAXIDROP hose drop may be shipped fully assembled or separate from the support bracket. Proceed with a visual inspection upon receiving the material and check for any apparent damage that may have happened during freight. Generally, shipment includes the components listed above. Other optional components such as support brackets, exhaust fans, tailpipe adaptors may be included with shipment. Inspect box or crate appearance when receiving the goods. Report damages to carrier immediately. Failure to do so will void future claims.

7.2 Location

1. The area where the system will be installed should be able to sustain the weight of such along with the accessories, ducting, fan or any optional equipment.
2. Installer should ensure area around the system will be free of obstacles such as beams, lighting fixtures, overhead cranes, etc.

7.3 Installation of HDSP MAXIDROP

1. Bolt the two (2) wall cleats on an adjacent wall and at operator reach level. Ensure the braided rope will have the reach needed for the application.
2. Install the two (2) pulleys equally distanced for proper lift and stability. Pulley furthest from the wall should be installed as close as possible to the service bay.
3. Exhaust duct may be used to hang the flexible hose. Attach flexible hose at exhaust duct using one (1) clamp. It is recommended to use two (2) screws near the clamp to secure the flexible hose onto the exhaust duct.
4. Slide hose sling onto flexible hose. Location of sling onto hose will be determined as per amount of hose allowed to hang without creating an obstacle to employees or vehicles in movement.
5. Attach braided rope to tangle free turnbuckle (on hose sling) using the U bolts and screws supplied.
6. Slide rope into the two (2) pulleys and on to the wall cleats. Rope may be cut if judged too long and risks of tangling.
7. Install tailpipe adaptor at end of flexible hose (if ordered).



CEILING TRUSSES INSTALLATION
WITH BRAIDED ROPE, PULLEYS
AND WALL CLEATS

7.4 Installation of HDSB MAXIDROP (Onto ceiling trusses)

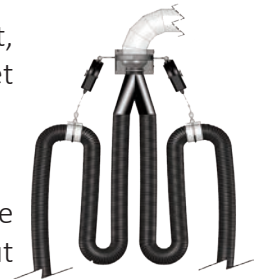
Note: AQC supplies two (2) types of balancers. Light duty hose drop balancers have 15' (4,6M) of travel cable and heavy duty hose drop balancers have 20 to 25' (6 to 7.6M) of travel cable.

1. Balancer should be installed as close as possible to the work station or service bay. Proper installation height of balancer should be determined as per hose length and cable travel capacity.
2. Exhaust duct may be used to hang the flexible hose. Attach flexible hose at exhaust duct using one (1) clamp. It is recommended to use two (2) screws near the clamp to secure the flexible hose onto the exhaust duct.
3. Slide hose sling onto flexible hose. Location of sling onto hose will be determined as per amount of hose allowed to hang without creating an obstacle to employees or vehicles in movement.
4. Attach balancer cable to tangle free turnbuckle (on hose sling) using a shackle (supplied).
5. Install tailpipe adaptor at end of flexible hose (if ordered).



7.5 Installation of HDSB or HDDB MAXIDROP with support bracket

1. Install support bracket onto a wall or post. Proper installation height of bracket should be determined as per hose length and cable travel capacity.
2. Slide exhaust duct companion flange from underneath the bracket, Bolt single drop or double drop hose flange underneath the bracket (fasteners included).
3. Attach the balancer(s) onto the eye bolt(s) on bracket.
4. Slide hose sling(s) onto flexible hose(s). Location of sling onto hose will be determined as per amount of hose allowed to hang without creating an obstacle to employees or vehicles in movement.
5. Attach flexible hose(s) to hose flange(s) or Y adaptor using one (1) clamp. It is recommended to use two (2) screws near the clamp to secure the flexible hose onto the hose flange.
6. Attach balancer cable to tangle free turnbuckle (on hose sling) using a shackle (supplied).
7. Install tailpipe adaptor(s) at end of flexible hose(s) (if ordered).
8. Connect exhaust ductwork to duct companion flange and seal.



7.6 Installation of MAXIDRIVE DF exhaust fan with HDSB or HDDB hose drops with support bracket

Note: Duct companion flange will have to be discarded for this type of installation.

Follow steps 1 to 7 in previous installation. Once all hose drops components have been bolted or attached to the bracket, position and bolt exhaust fan on wall support bracket. Ensure direction of exhausted air and ductwork does not come in contact with obstacles or positioned in a way to be cumbersome to existing equipment.

Note: MAXIDRIVE DF exhaust fan may also be installed remote of the hose drop assembly (ex; roof or ceiling). If this is the case, optional fan support bracket will be required and refer to MAXIDRIVE installation manual.

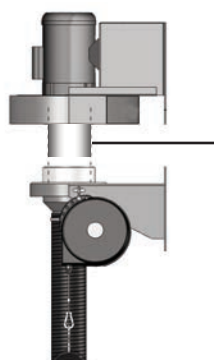


7.61 Electrical connection

Note: due to different voltages, amperage, HP of optional blower, wiring diagrams and electrical connections are available on request.

7.7 Installation of MAXIDRIVE DFR exhaust fan with HDSB hose drop and support bracket

Note: duct companion flange will be needed for this type of installation. MAXIDRIVE DFR fans have their own installation and support bracket. This type of fan is also usually designed for smaller diameter hose drops such as the 3" (75 mm) and 4" (100 mm) diameter.



MINIMAL DUCTWORK WILL
BE REQUIRED TO CONNECT
COMPANION FLANGE TO
FAN INLET

8 MAINTENANCE AND INSPECTION

The chart indicated below shows different inspections and the frequency at which they should be performed.

Frequency of inspections	Components	Procedures
Daily	Flexible hose	Check for tears, cracks or holes. Replace if necessary.
Monthly	Spring balancer	Ensure recoil cable works properly and locks at desired position. (Do not open balancer and attempt repairs on spring). Replace if necessary.
Yearly	All components	Support sling is secured. Check all fasteners.

9 TROUBLESHOOTING

Problem	Probable cause	Solution
Braided rope is jammed	Knot or kink in rope Pulley is defective	Straighten rope or untie knot
		Repair or replace pulley
Spring balancer is jammed	Knot or kink in travel cable. Worn or damaged spring system.	If supplied (reverse phases).
		Do not attempt to repair spring.
		Replace spring balancer.
Insufficient vacuum	Hole or tear in hose	Replace flexible hose
	Gap in joint between hose and adaptor	Repair gap

10 WARRANTY

- 10.1 **Coverage:** Aireau Quality Control Inc. or its designated affiliate (the "Seller") selling the product (the "Product"), warrants that the Product sold by Seller will be free from defects in material and workmanship for a period of 12 months from the date of its installation or 14 months from the date of shipment by Seller, whichever date is earlier (the "Warranty Period").
- 10.2 **Exceptions:** This warranty does not apply to any Product or portion thereof that: (i) has been used in a manner not in compliance with Seller's or manufacturer's documentation and instructions, (ii) has had changes, alterations or repairs made by a person other than a person authorized by Seller, (iii) has been improperly installed or used or has been installed or used contrary to applicable codes, standards, laws and regulations, (iv) has been subjected to improper storage, accident, neglect, misuse or abuse, (v) has been damaged during shipping, (vi) has been subject to damages resulting from normal wear and tear, (vii) has not been used with appropriate fire protection systems or explosion venting when required or (viii) has not been installed by a licensed contractor with experience in fire and explosion hazards and applicable codes, laws and regulations. For greater certainty, this warranty does not apply to filters sold as part of, or for use with, the Product. Unless specifically accepted otherwise in writing by Seller, Seller does not warrant that electrical equipment will comply with any laws or regulations of the customer's jurisdiction.
- 10.3 **Claims:** To benefit from this warranty, customer must notify Seller in writing of the Product defect, which notice shall include a reasonable description of the defect, within 10 days from the date such defect is discovered or ought to have been discovered.
- 10.4 **Remedy:** During the Warranty Period and subject to the terms herein, Seller will, at its option, either: (i) repair or replace the Product or any defective parts or components (except for filters) with Product, parts or components (except filters) free from defect or (ii) credit or refund the purchase price of the Product. If Seller so requests, customer must return the defective Product to Seller's place of business determined by Seller. Shipping, installation, removal and re-installation costs will be solely borne by the customer. **The foregoing shall be customer's sole and exclusive remedy for any defect in the product, its parts and components and for any breach of the warranty herein.**
- 10.5 **Disclaimer:** Except as set forth in this section 1, each of seller, its affiliates and their directors, officers, subcontractors and representatives (the "seller parties") disclaims all representations and warranties, whether written, oral, express, implied, statutory, or otherwise, including all implied warranties of merchantability, quality, fitness for a particular purpose, non-infringement, and warranties arising from a course of dealing, course of performance, usage, or trade practice and customer hereby expressly waives any right related thereto. Without limitation to the foregoing and except as expressly set out herein, the seller parties do not represent or warrant that: (a) the use of the product will be timely, uninterrupted or operate in combination with any other hardware, software, system or data or (b) the product will meet customer's intended use, requirements or expectations.

11 LIMITATION OF LIABILITY

- 11.1 **Limitation of Liability:** Notwithstanding anything to the contrary, in no event will the seller parties' liability arising out of, or related to, the product or its parts and components, whether pursuant to contractual or extracontractual liability, tort or under any other theory of liability, exceed the price paid to seller for the product giving rise to such liability.
- 11.2 **Exclusion of Consequential and Similar Damages:** Notwithstanding anything to the contrary, in no event will the seller parties be liable for any indirect, punitive, special, exemplary, incidental, consequential or other similar damages of any type or kind (including loss of revenue, profits, use or other economic advantage, damages due to product failure, work stoppage or delays in delivery) arising out of, or in any way connected to, the product or its use, breach of contract, tort (including negligence), strict liability, product liability, or otherwise, regardless of cause, even if the seller parties had previously been advised of the possibility of such damages or could have reasonably foreseen them.
- 11.3 **Fire and Explosion and Acceptance of Risk:** Customer acknowledges that improper installation or use of the Product may result in fire or explosion. To minimize such risks, proper installation, operation, and maintenance of the Product in accordance with all applicable codes, standards, laws and regulations is critical. Prior to installation and use, customer shall ensure that the Product meets the applicable codes, laws and regulations, including those related to the addition of appropriate fire protection systems or explosion venting. Installation shall be performed by a licensed contractor with experience in fire and explosion and applicable codes, laws and regulations.

12 APPLICABILITY

- 12.1 The terms herein constitute the only warranty given by Seller with respect to the Product. No other terms and conditions, whether included on a purchase order or in any other document, shall apply or bind the Seller with respect to the Product warranty and all such terms and conditions and documents are expressly disclaimed.

13 GOVERNING LAW

- 13.1 These warranty terms will be governed by and construed under the laws in force in the Province of Ontario, Canada, excluding its conflict of law rules.