

Simply smart drying systems

INTERNATIONAL DRYING
CORPORATION

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"YOUR CAR WASH DRYING EXPERTS"

Stealth Drying System Installation Manual



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Installation

NOTES***

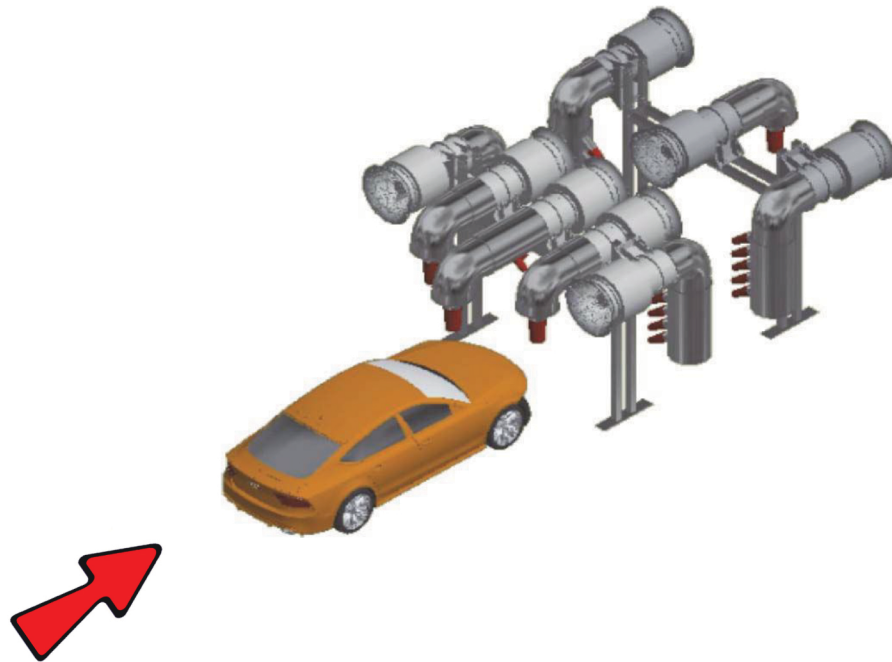
- All electric service should be locked off before working on any equipment and wash bay blocked off appropriately. Always confirm all emergency stop switches and electrical disconnects are in the OFF position before performing any service on equipment
- Customers electrician is responsible for all connections both single and 3 phase.
- Customer responsible for verifying all electrical requirements.
- All 3 phase connections must be made using split bolt connectors with insulation tape and rubber insulation boots.

Electrical Specifications

(Per Motor)

HP	Voltage	Amperage
10	208	24.9
10	230	23.6
10	460	11.8
15	208	37.5
15	230	34.0
15	460	17.0

Vehicle Travel Thru Stealth Drying System



Installation

Tools Needed for Installation

1. Work Gloves
2. Safety Glasses
3. Impact or ½" drive ratchet set
4. Wrench Set
5. Pry Bars
6. Screwdriver set
7. 1" Hammer Drill
8. Tape Measure
9. Lifting Straps
10. C-Clamps
11. Level
12. Shims
13. Hammer
14. ½" Stainless Steel wedge anchors - 16 per arch
15. Anti-Sieze Compound



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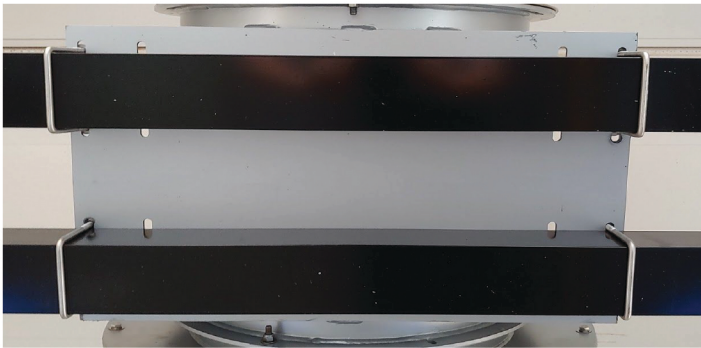
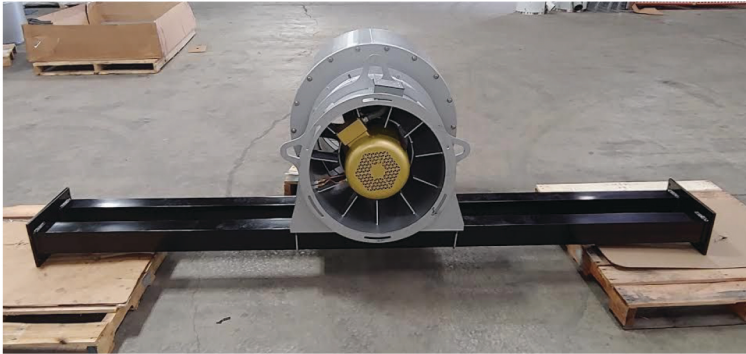
System Includes:

1. Foam gasket material.
2. Stainless Steel Hardware for elbows, side columns and hoggers (Top Producers).
3. All foam nozzles.
4. Stainless steel clamps for foam nozzles.
5. Stainless Steel U-Bolts, (8) 5 & 1/2" U-Bolts per arch and four (4) 5 & 1/2" bolts per motor assembly.

Installation Process

1. If installing a Stealth 80 system, arches need to be a minimum of 7' apart. Using specification sheet, measure and lay out both arches to ensure proper distance is obtained.
2. Place the crossbeam arch on a flat surface raised off ground.

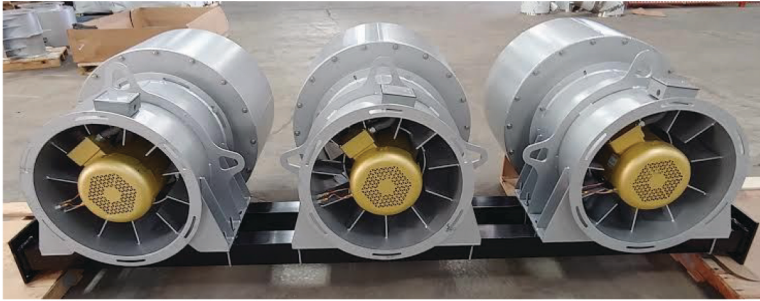
3. Attach the center motor and muffler with a forklift and place at the center mark of the arch. Secure to arch with four (4 & ½") U-bolts.



4. Attach passenger side motor and muffler with forklift and place motor 9 & ½" from the center motor on the arch. Secure to arch with four (4 & ½") U-bolts.



5. Attach the driver side motor and muffler with a forklift and place the motor 9 & ½” from the center motor on the arch. Secure to arch with four (4&½”) U-bolts.



6. Secure arch and raise with forklift. Using supplied stainless steel U-Bolts attach the crossbeam to the 2 vertical dual legs 4” inches from the top of the vertical legs using anti seize compound on the threads. This will put horizontal arch 110 & ¼” from the ground, the top motor nozzles 98 & ¾” from the ground. Foam flex nozzle will then be 85” from the ground

**IF INSTALLING A DUAL MOTOR ARRAY- READ THE FOLLOWING STEPS-
IF NOT, SKIP TO STEP NUMBER 15**



7. If installing a single (1) dual motor, attach 10" blank & second motor on arch.

BEFORE RAISING

8. If installing multiple dual motors, install first three (3) motors on arch with 10" spacers.

RAISE ARCH AND SECURE IN PLACE

9. Secure middle dual motor loosely to single tube horizontal arch. Raise up and secure to 10" spacer
10. Erect vertical single tube legs and secure to horizontal.
11. Raise outer dual motors one at a time and secure to 10" spacer. Loosely attach u-bolts.

NOTE: IF SIDE MOTORS ARE BEING INSTALLED, OFFSET SINGLE TUBE LEGS MUST BE USED

12. Adjust single tube horizontal arch so that it is evenly spaced on both sides.
13. Secure single tubed arch to ground.
14. Secure dual motors to arch with u-bolts.
15. Locate the drivers side leg 58 inches from center line, level, square and anchor the legs. this will put driver side leg at 19" from outside of conveyor.

16. Using a lifting strap lift one of the side motors and mufflers with forklift and place 12" from top of side leg on the drivers side of the arch (81 & ½" from the ground) using the supplied stainless steel shims (if needed) to allow clearance for crossbeam U-Bolts. At this height, the bottom side column nozzle will be 34 & ½" above ground.

NOTE: If 4 side columns (2 sets) are being installed, the second set of motors (nearest exit of wash) should be 4" lower than the first set of motors (nearest entrance of wash)



17. Using a lifting strap lift one of the side motors and mufflers with forklift and place 12" from the top of side leg on the passenger side of the arch (81 & ½" from the ground) using the supplied stainless steel shims (if needed) to allow clearance for crossbeam U-Bolts. At this height, the bottom side column nozzle will be 34 & ½" above ground.

NOTE: If 4 Side columns (2 Sets) are being installed, the second set of motors (nearest exit of wash) should be 4" lower than the first set of motors (nearest entrance of wash).



18. Attach the center top nozzle in downward direction using 24" stainless steel extension.

NOTE: This only applies to sytems with three top motors. No 24" blank is used in a single top motor design.



19. Attach additional top nozzles at a 15 degree angle towards the center. (if applicable)

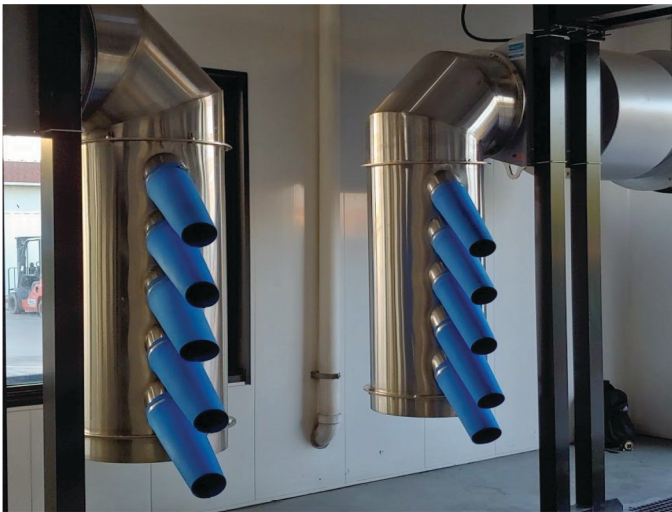


20. Attach side column elbows so that they are level and straight down.



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21. Align drivers and passengers side nozzles so that both are aligned directly at the center of the wash at a 15 degree angle toward entrance of wash.



22. Check all bolts for tightness.

23. Remove all protective wrapping from dryer.

24. Attach all side flex nozzles and top flex nozzles using stainless steel clamps.



25. Have a certified electrician make all necessary connections and test rotation. Motors should start sequentially to prevent overdraw of current. It is recommended starting the motor closest to the discharge before the inlet motor as this will reduce the load on the motor at startup.