



Premier Touchless Drying Systems

OWNERS MANUAL

2210 Heldt Street Merrill, WI 54452 866-539-3100

www.premiertouchlessdryingystems.com



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Premier Dryer Introduction

Premier Touchless Drying Systems was established May 1st, 2001 by Jim VanDerGeest. Premier manufactures custom drying equipment for many industries all over the world. Many hours and years of experience of studying air flow and air distribution have made our dryer #1.

At Premier our customers are our partners. We provide our customers with the best answers and function ability of their particular setup, and help you set up the perfect dryer system for your project. We will provide you with great products and service, guaranteed. When it come to price, service, custom design, private labeling and dryer performance, go no further. Premier is your answer. Our positive and knowledgeable staff is here and ready to make your venture a profitable and enjoyable experience.

Sincerely,

A handwritten signature in black ink, appearing to read 'Jim VanDerGeest', with a stylized flourish above the name.

Jim VanDerGeest

Premier Warranty Policy

Premier companies warrantee policy

This warranty created for Premier companies is an agreement of all parties of services performed and parts manufactured within the sources of these companies. Premier warranty does not cover normal wear and tear to the depreciable parts, improper installation, neglect of Premiers preventative maintenance, misuse, abuse, negligence, third party damages natural acts of God or damages caused by the use of corrosive chemicals in the wash process.

*90 day warranty on Premier products from date of shipment

*2 year motor warrantee from date of purchase

Warrantee claim procedure

For a warrantee claim contact Premier @ 866-539-3100 and a Premier Representative will respond promptly on the procedure to follow next. In case of product defect/damage noticed upon receipt of shipment the product must be returned to Premier or pictures taken and noted at time of delivery by receiver and deliverer.

WARRANTY LIMITATIONS

THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, OR IMPLIED. THERE ARE NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ANY OTHER WARRANTIES THAT EXTEND BEYOND THIS LIMITED WARRANTY. PREMIER DOES NOT WARRANT ANY SPECIAL PRODUCT OR ITEM WHICH IS MANUFACTURED ACCORDING TO SPECIFICATIONS PROVIDED BY THE CUSTOMER. ITS AGENT OR REPRESENTATIVES UNDER NO CIRCUMSTANCES WILL PREMIER BE LIABLE FOR AN COSTS OF SHIPPING, TAXES, DISASSEMBLY, REMOVAL OR REINSTALLATION OF THE PRODUCT OR PRODUCTS OR ANY PART, INCLUDING, CONSEQUENTIAL DAMAGES OR LOSS TO OTHER PROPERTY, THE REMEDIES PROVIDED UNDER THIS LIMITED WARRANTY ARE EXCLUSIVE AND IN LIEU OF ALL OTHER REMEDIES AT LAW OR EQUITY.

No customer, distributor, sales person, dealer or other representative of Premier associated companies has the authority to alter or change these warranties either orally or in writing.

Premier Label Identification

Premier label identification

On all of the boxes you will find a sticker with the general info regarding the order including a company name, PO# and a WO#. One of the producer boxes you will see a “Hardware inside” sticker. Inside this producer box you will find a separate box with all the hardware and prints needed for the install.

A rectangular sticker with a black border and the text "HARDWARE INSIDE" in bold, black, uppercase letters.

Premier dryers also come with 6 stickers on each producer which are motor termination installation warrantee, made in the USA, tested by, wheel rotation, motor drain plug removal, and number identification for install.

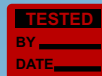
*Motor termination installation warrantee= Conduit or cable entrance must be on side or bottom side of box.



*Made in the USA=All of us at Premier are proud to say that your dryer is made in the USA!



*Tested by= Employee who built and tested your dryer on a specific date.



*Rotation= Signifies the rotation direction of the wheel inside the housing.



*Number= Represents the placement of that producer according to drawing included in the hardware box.

A white circle with the number "1" in black, bold, uppercase letters.

*Motor plug removal= Drain plug must be removed at lowest point during install.



Receiving and Delivery

Receiving and delivery

Once your order is completed a Premier Representative will contact their customer to confirm shipping location and date. It is up to the customer to have the equipment available to be able to handle the unloading of equipment. Pictures have been taken of the dryer during the construction and the packaging process to confirm that your dryer unit left in good condition and to account for missing parts that may have occurred during the shipment and installation process. If something is missing or damaged refer back to the warranty portion for direction.

Installation

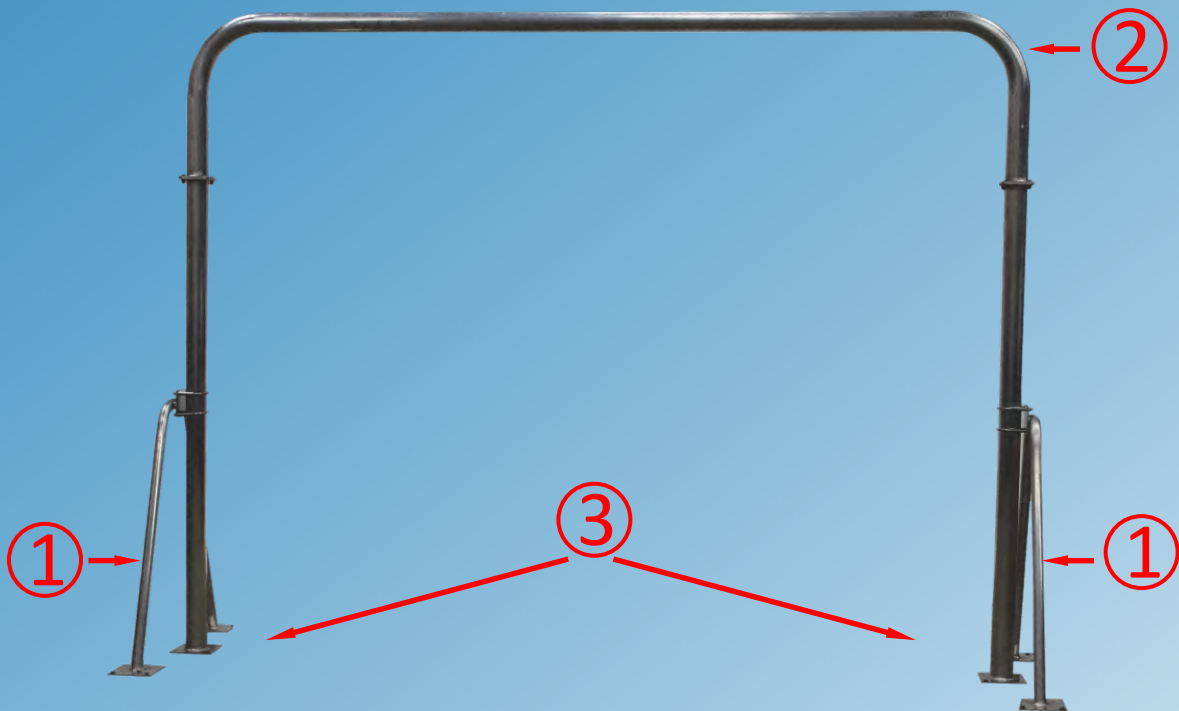
Installation (Premier recommended nozzle clearance is 90")

We recommend that a licensed electrician is contracted to perform all electrical installations. Always disconnect any electrical power potential before servicing any equipment. A lockout/tag out system is also recommended. Take into consideration your specific applications spacing requirements before installation of arch or beam supports. See page 11 for details.

Arch Assembly

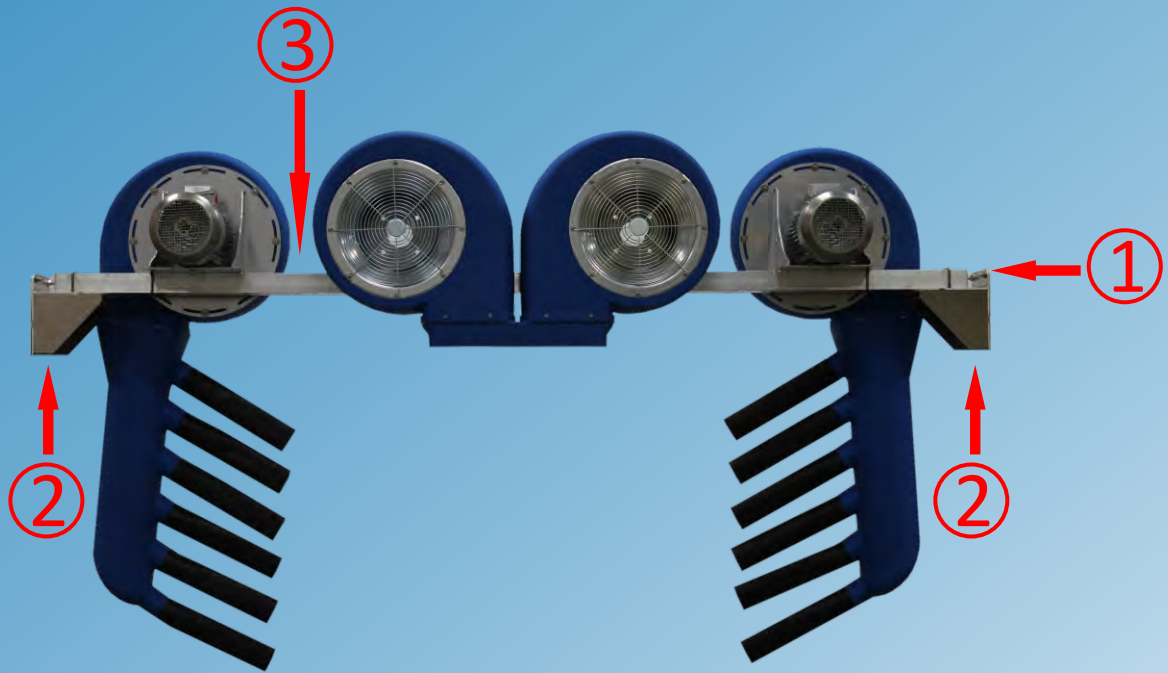
Arch assembly

- ① Take the two gussets install them to the vertical legs using the u bolts provided. Keep all hardware loose until arch is in final position and levels have been checked.
- ② Install top arch beam on top of vertical legs by using 3/8" hardware provided.
- ③ Place arch in desired position, check levels, tighten all hardware, mark holes for drilling on the floor; install 1/2" anchors, place arch on anchors and tighten down.



Interior Wall Mount

- ① The top of the wall mounting bracket will be 12" higher than the vehicle clearance while using our 5"x 3" beam. This will determine the height location of the wall mount bracket.
- ② Install the wall mount brackets on the wall by using customer supplied approved hardware per the specific wall application. Premier will include 6 square washers to place on the outside of the wall.
- ③ After the brackets are installed place the beam on the wall mount brackets and install supplied 3 x 5 u-bolts to secure the beam in place.



Exterior Wall Mount

Exterior wall mount

- ① The top of the mounting plate that secures to the wall will be 10.5" higher than the vehicle clearance while using our 5"x3" beam. Exterior wall mount with legs at top of leg will be 9" higher than vehicle clearance.
- ② The beam will be 2' 3" larger than documented door width. Place bracket up at desired height and place bracket approximately 5" away from door. Mark holes and use threaded rod (not included) to secure the brackets to the wall. Premier will include square washers to use on back side of wall.
- ③ Place beam on top of bracket and secure to pads using 3x5 ubolts provided.



Note: Exterior wall mount with legs is pictured

Producers

Producers

Notice suggested lifting holes on backplate gusset. Follow drawings on producer location during installation. Use provided ubolts to secure to beam or arch.



E-Trunk & Air Knife Install

Elephant trunk and Air knife install

Before install please reference our Premier recommended dimensions pages 11-18. Note all dimensions are a recommendation of Premier and can be adjusted to accommodate your specific application. Place e-trunk / air knife snug onto housing and drill out the four dimples on e-trunk/airknife through housing. Install using supplied $\frac{1}{4}$ -20 hardware. Supplied hose clamps will hold on the rubber e-trunk nozzles. You will have to remove housing from producer to install the air knife due to the small opening.

E-trunk



Air knife



Nozzle & Discharge Guard Install

Nozzle and discharge guard installation

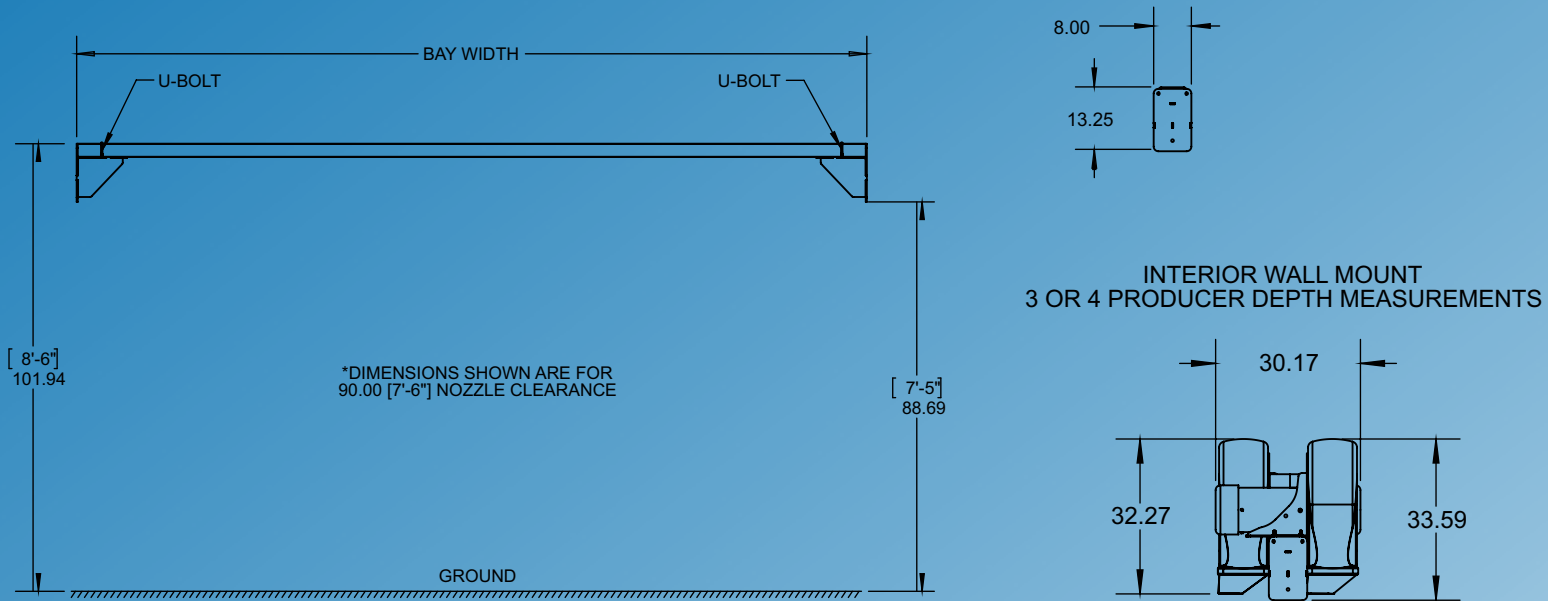
- ① Place nozzle snug onto bottom of housing.
- ② Drill 4 1/4" holes on the 4 dimple locations through nozzle and housing.
- ③ Place 4 bolts through housing and insert discharge guard with flanges facing out so you can get hand into insert holding plates. Tighten down.



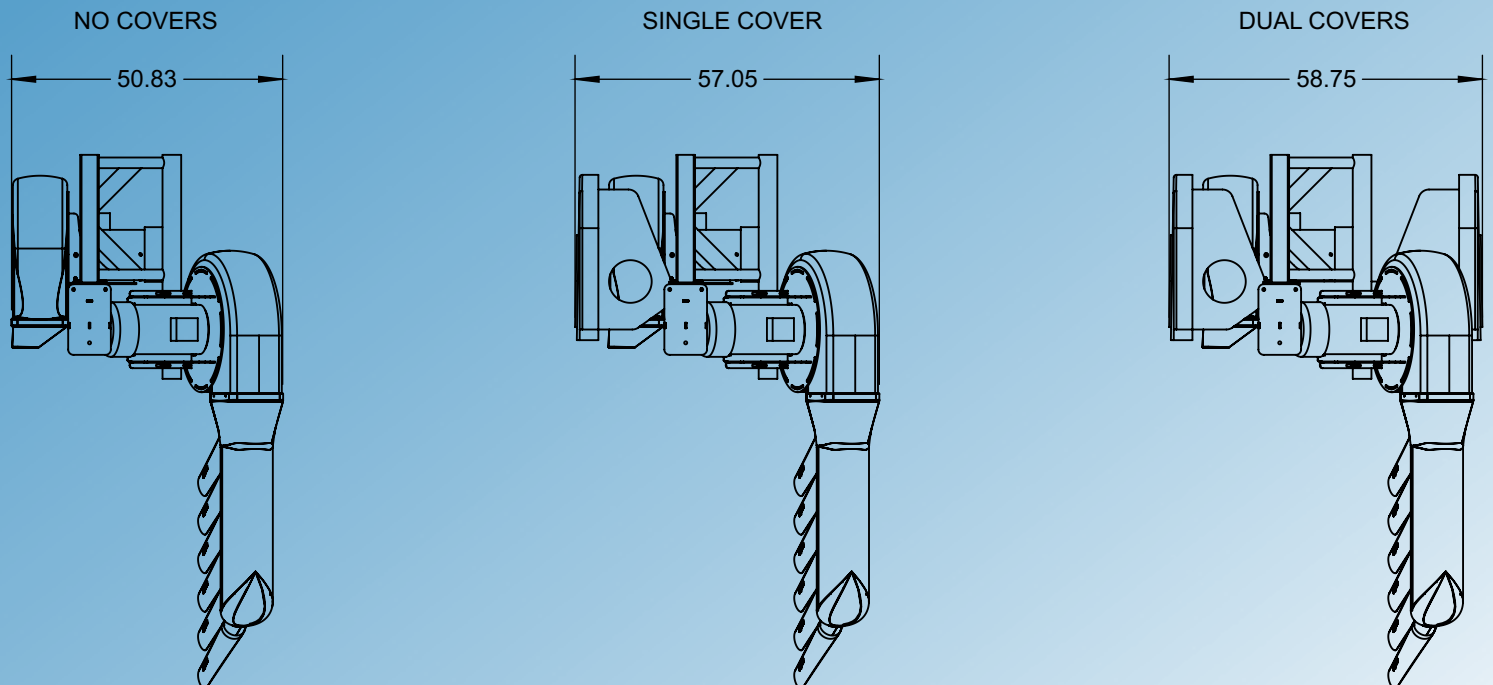
Dimensions & Distance

Premier recommendations for dryer installation.

INTERIOR WALL MOUNT DIMENSIONS

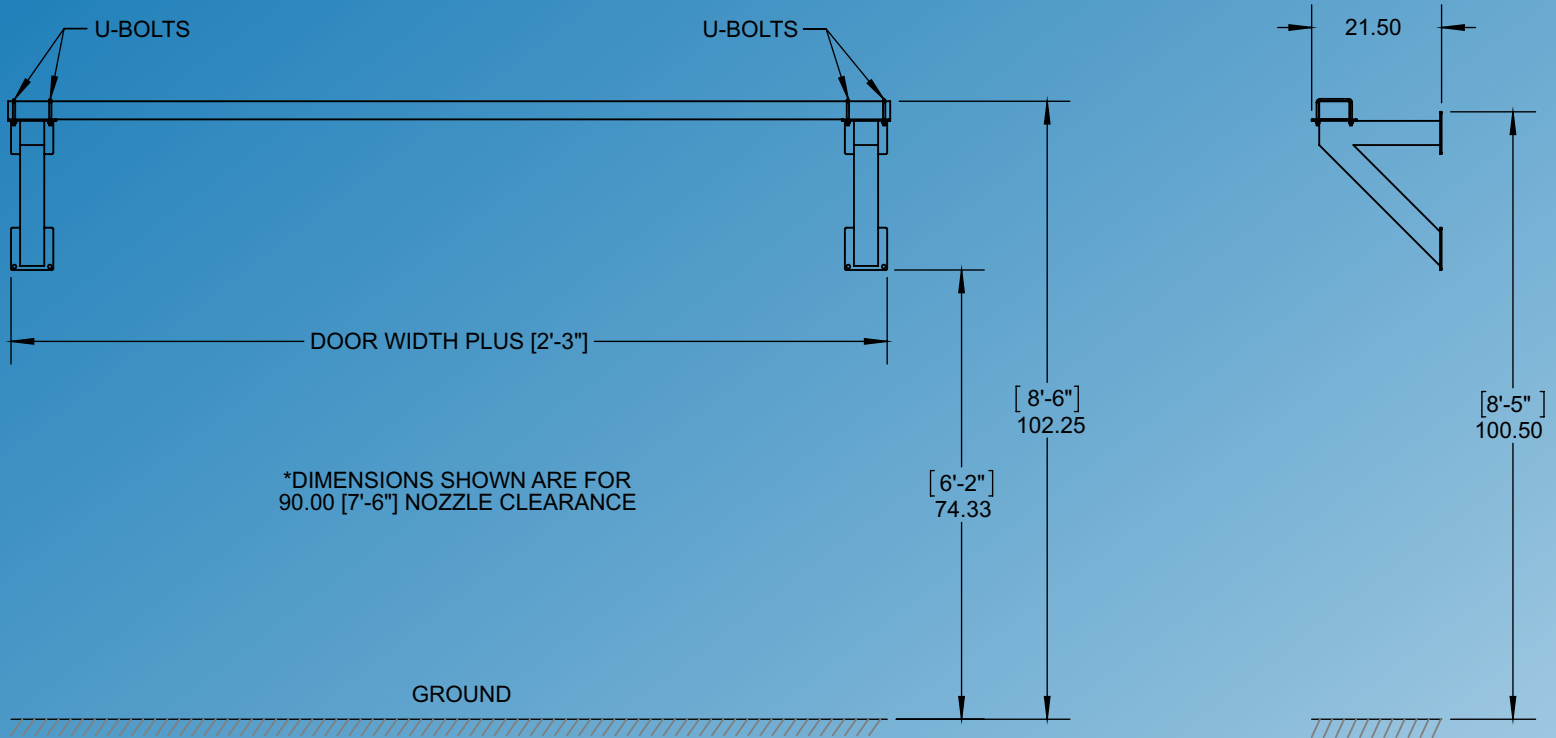


INTERIOR WALL MOUNT AIR KNIFE AND ELEPHANT TRUNK DEPTH MEASUREMENTS

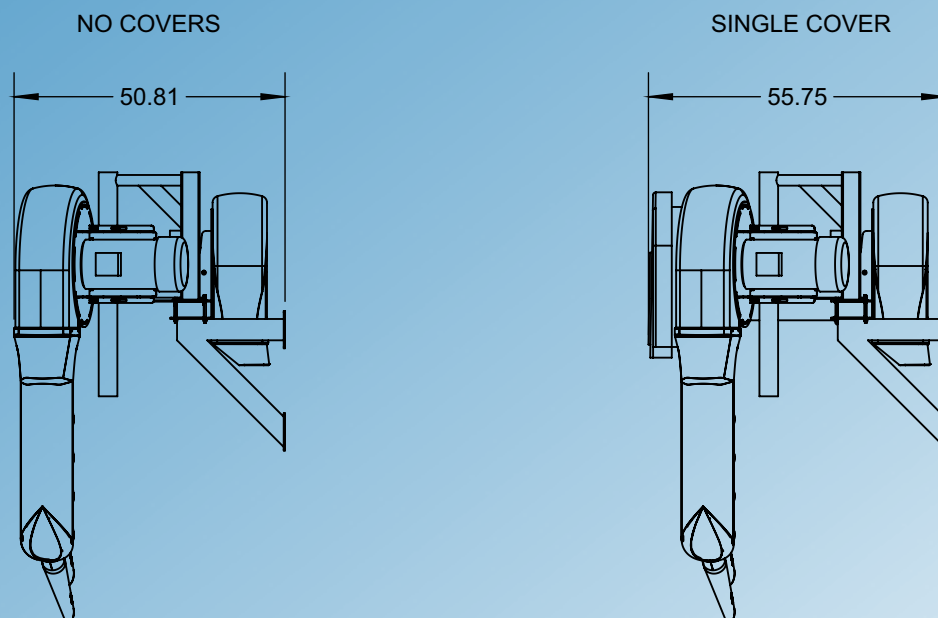


Dimensions & Distance

EXTERIOR WALL MOUNT DIMENSIONS



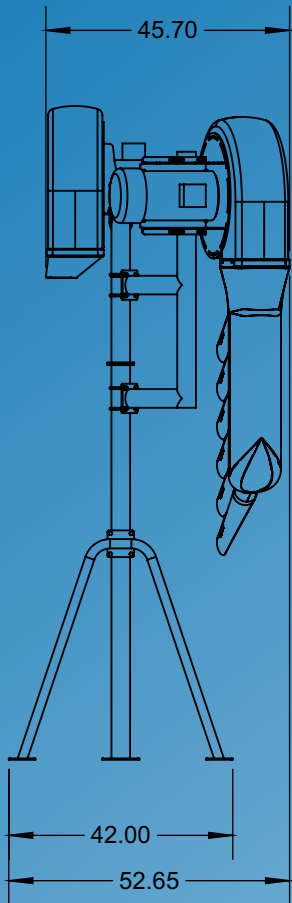
EXTERIOR WALL MOUNT AIR KNIFE AND ELEPHANT TRUNK DEPTH MEASUREMENTS



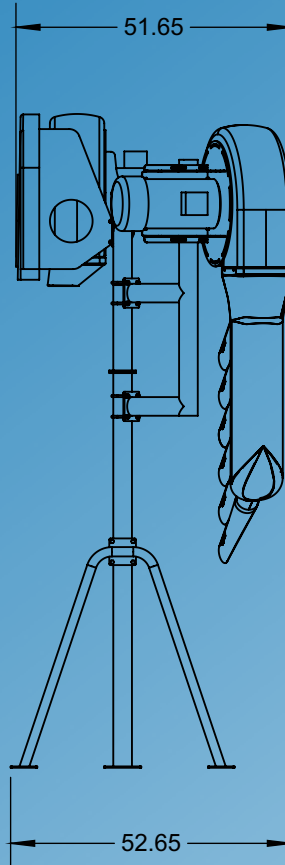
Dimensions & Distance

STANDARD ARCH DEPTHS

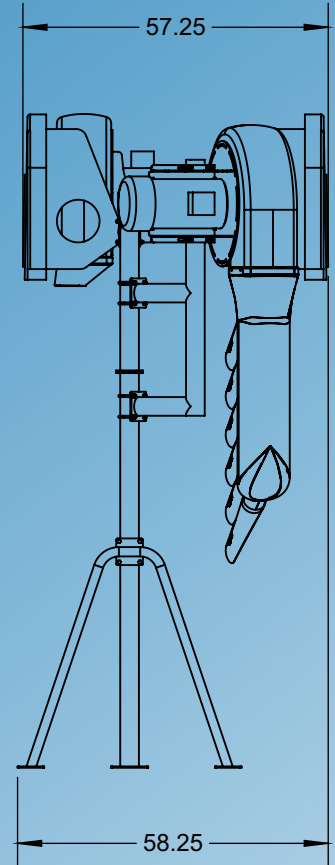
NO COVERS



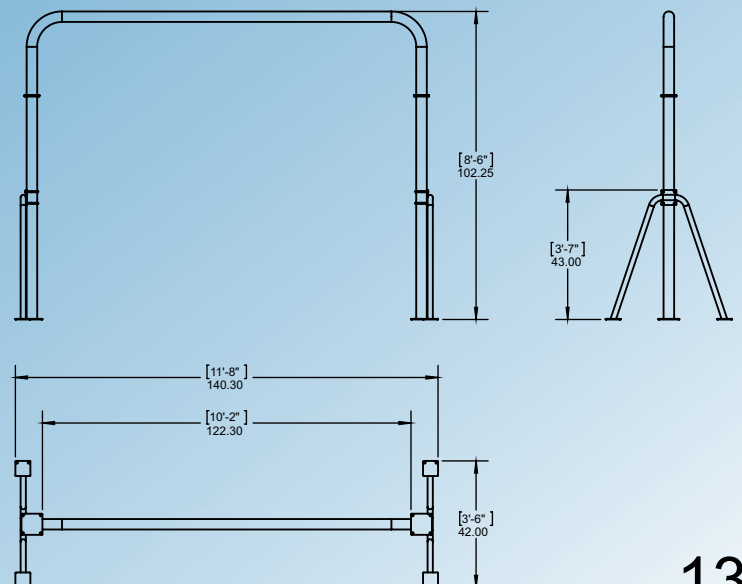
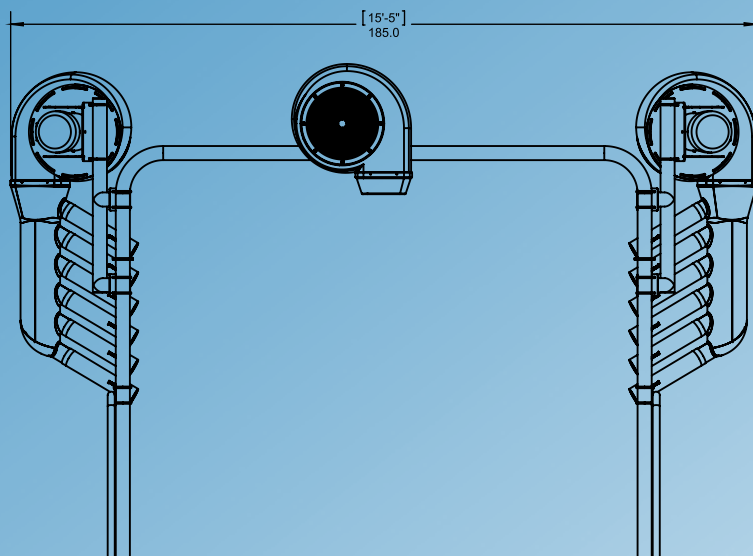
SINGLE COVER



DUAL COVERS

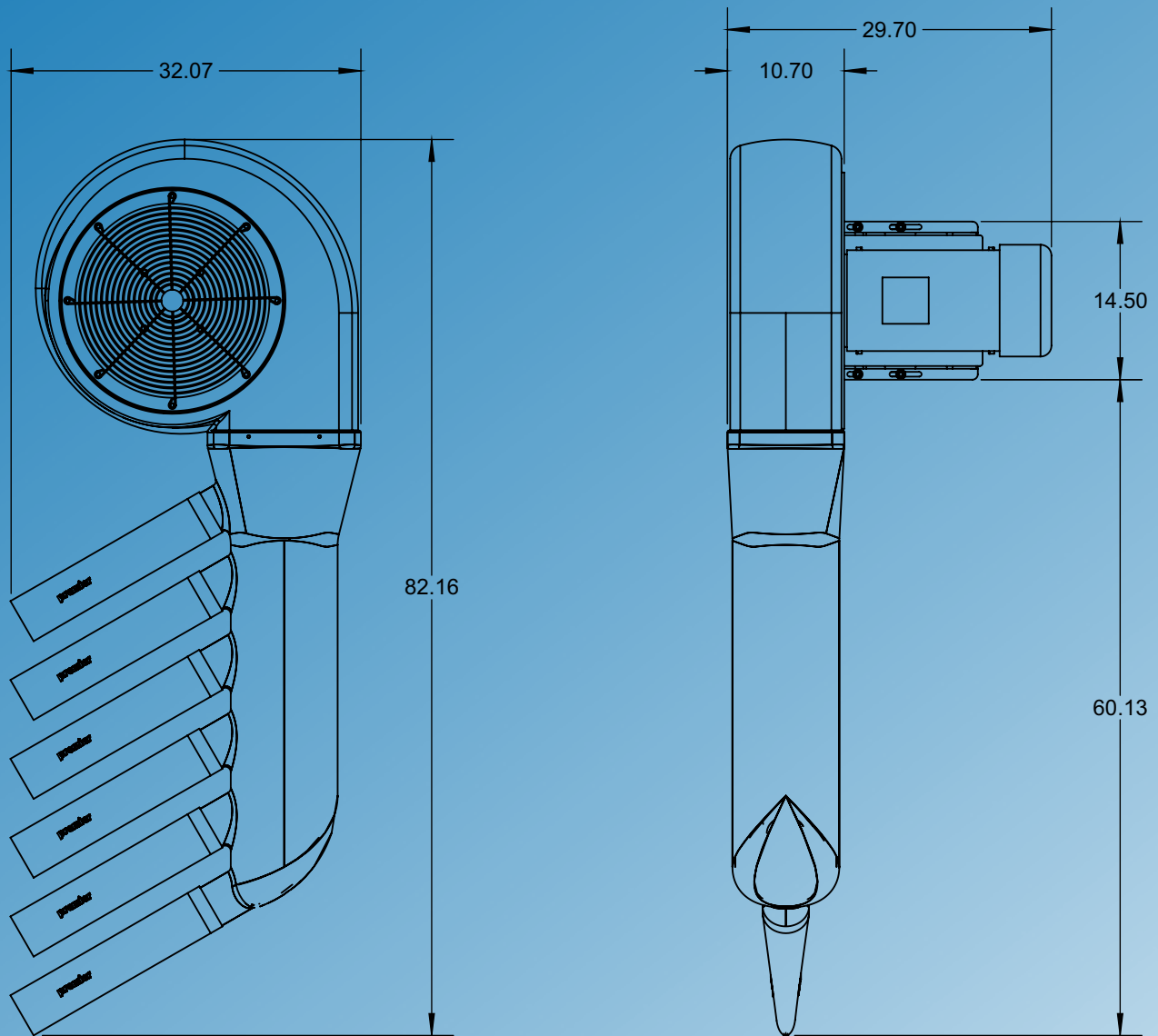


E-TRUNK RECOMMENDED WIDTH



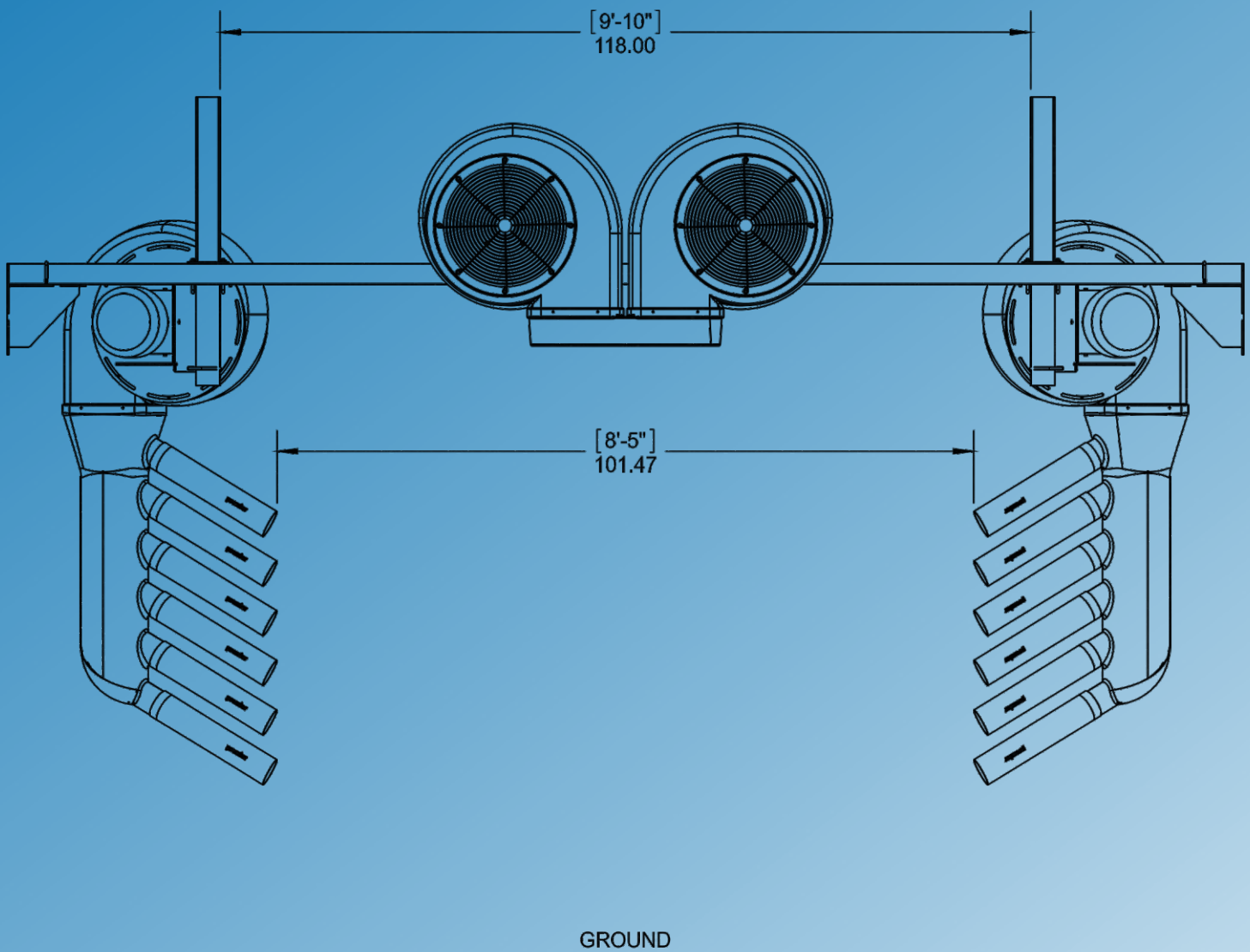
Dimensions & Distance

ELEPHANT TRUNK DIMENSIONS



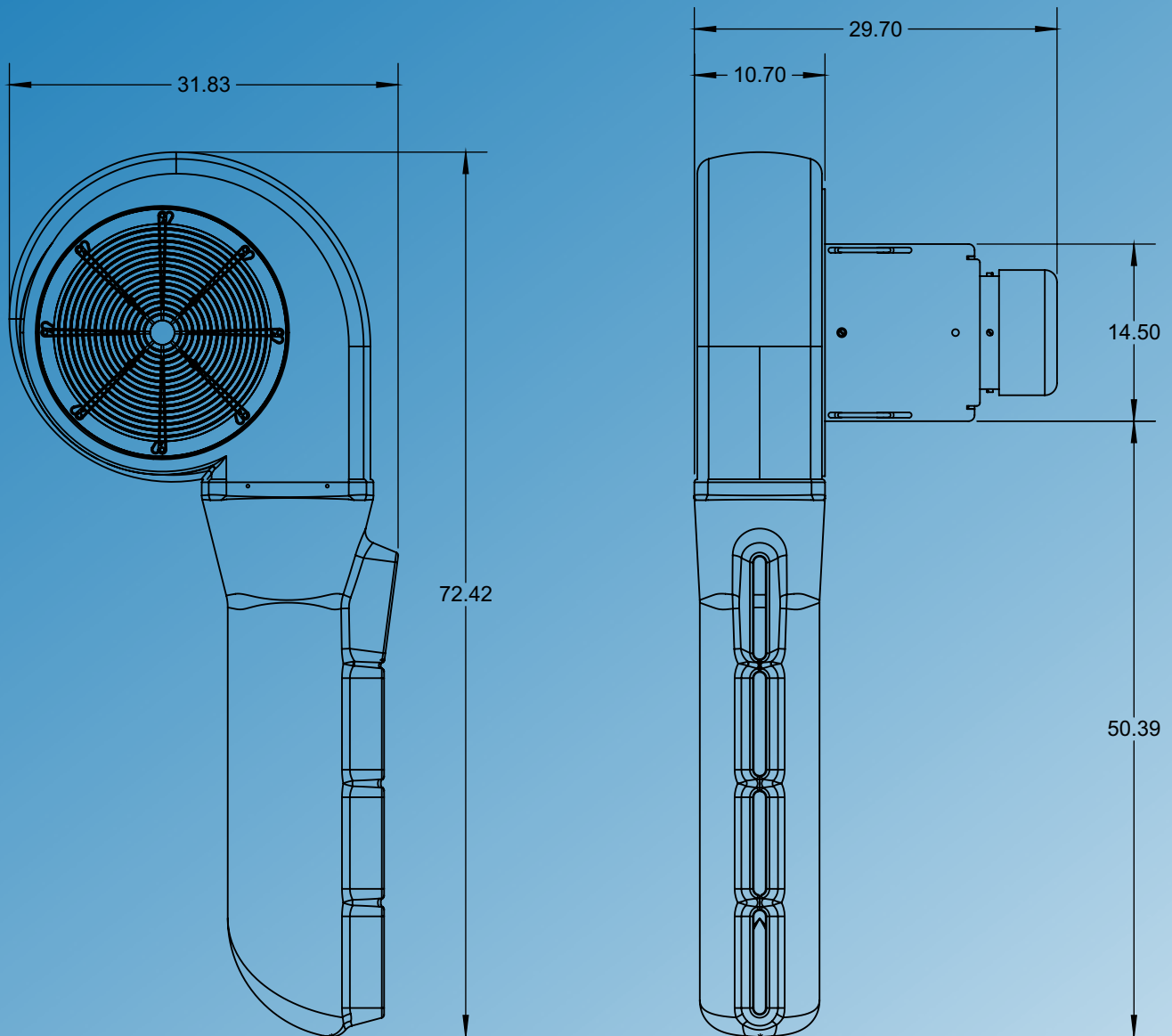
Dimensions & Distance

ELEPHANT TRUNK BRACKET DISTANCE



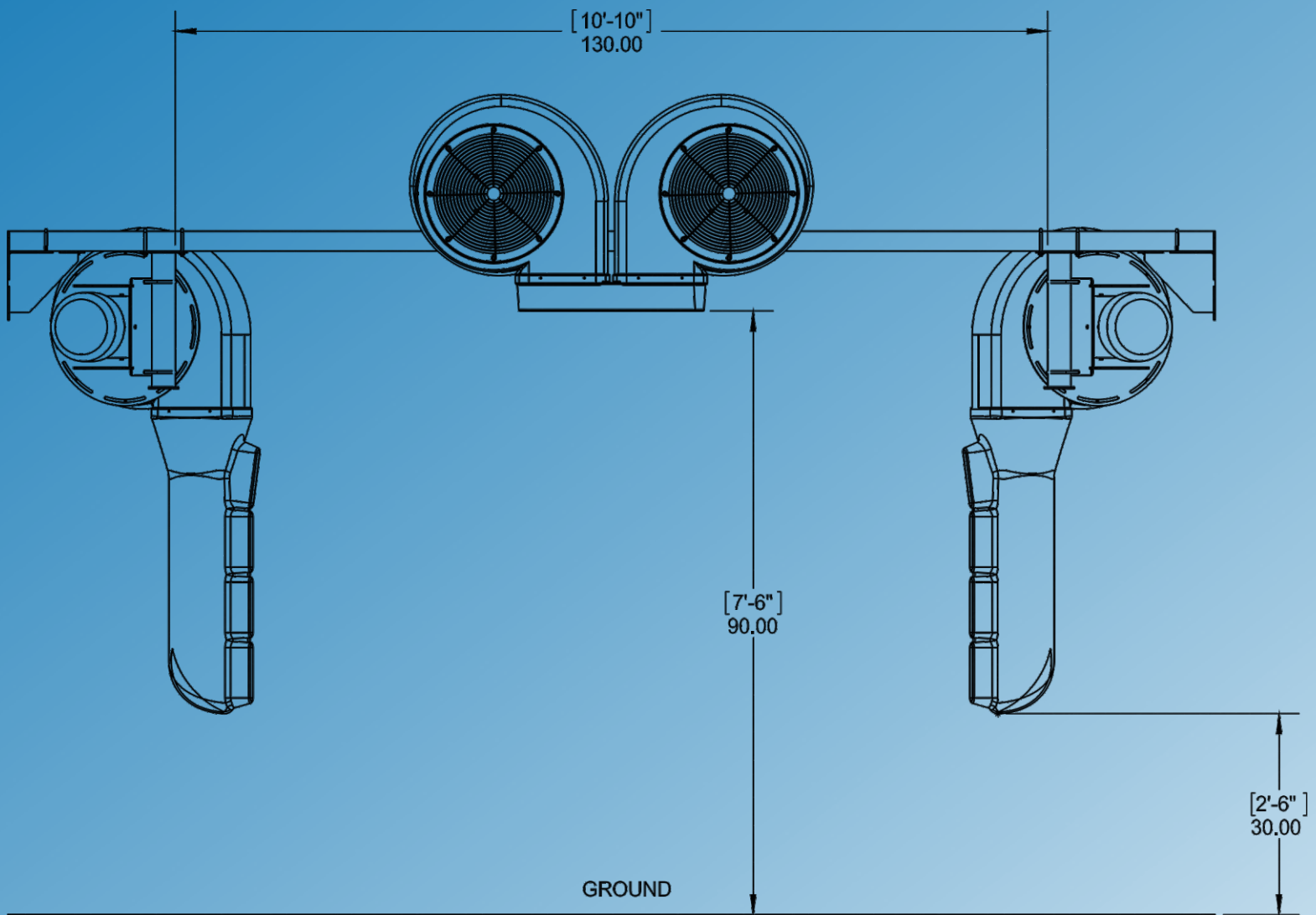
Dimensions & Distance

AIR KNIFE DIMENSIONS



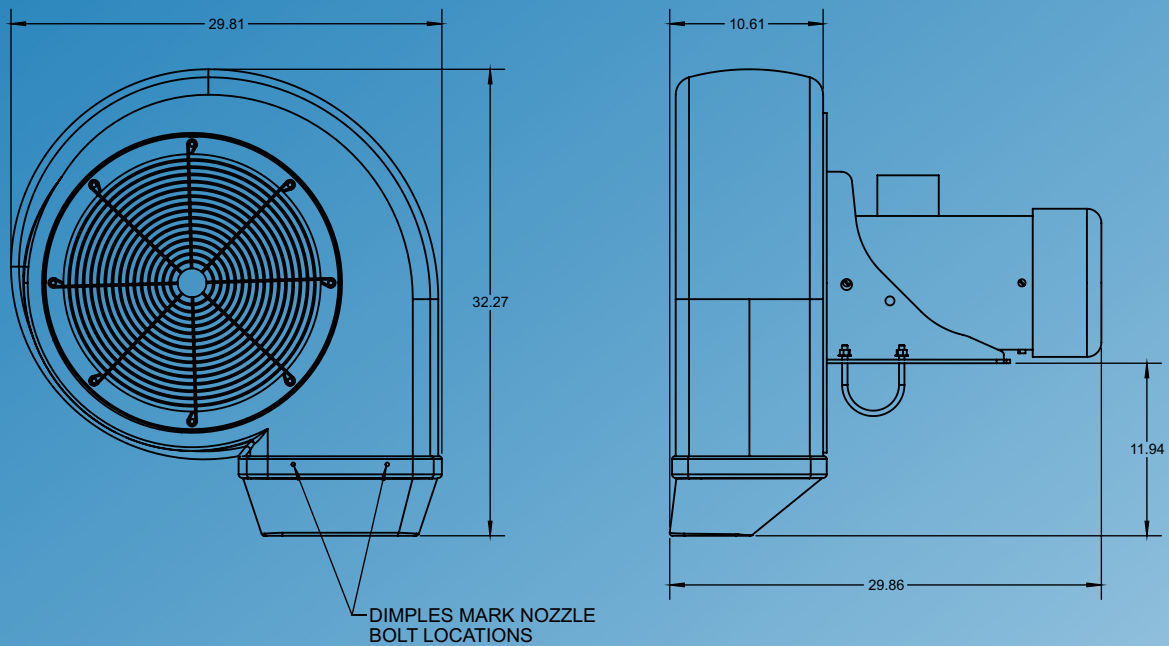
Dimensions & Distance

AIR KNIFE BRACKET DISTANCE

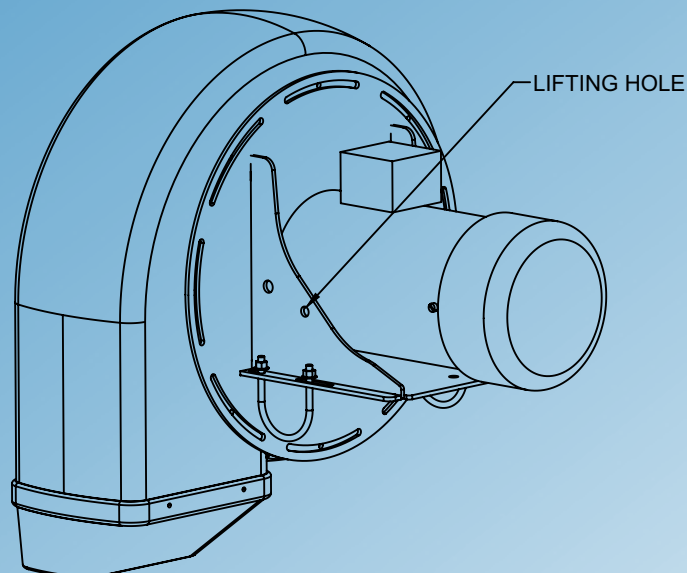


Dimensions & Distance

PRODUCER



PRODUCER LIFT HOLE DETAIL



Panel Installation

Panel installation

Premier recommends that a licensed electrician be contracted for the install services. Please see schematic print included with each panel for wiring diagrams and also the bill of materials for easy to find replacement parts if needed in future. All install methods must follow the local code guidelines of that specific install.

Start Up

Start up

* While power is off and locked out manually make sure the fan doesn't rub the inlet cone. Producer may be jarred or shifted during shipment process. If it does rub loosen the front 8 bolts and see if you can adjust cone so it doesn't rub. If this doesn't work you may need to loosen up wheel with a bushing puller and adjust accordingly.

*Make sure all hardware is tightened.

*Bump all motors to make sure that the rotation is correct. If incorrect switch the B and C phases on motor leads.

*Once running take voltage and amp readings on all three phases of each motor at the motors to assure correct installation.

Troubleshooting

Troubleshooting

Motor trips breaker or overload

*Have your license electrician inspect the voltages/amp readings at the motor, starter panel and at all the breakers. Check the rotation of the wheel. Overloads and wire sizes are sized properly according to you local code guidelines? Check all connections to make sure the motor is not single phasing and insure the voltages at all motors are correct on all three phases. After all this has been done by a competent licensed electrician and you haven't found cause contact your supplier/distributor for some additional support.

Motor won't start

*Have your licensed electrician check fuses and breakers, identify that the correct control voltage is being applied to the motor starter coil, inspect all wire connections, check line voltage prior to motor starter on all 3 phases, check load voltage after motor starter on all 3 phases and last check voltage at the motor on all 3 phases. Following these steps should identify the cause of the problem.

Replacement parts for your starter panel

*Each panel includes a schematic print with a bill of material to identify the parts/ part numbers for an easy transition for end user to find at their local electrical supplier store for a quick fix and to reduce down time. If you need to contact technical support there is a sticker in each panel with a L&S phone number as well as a MR# to reference that specific panel.

Vibration or noise coming from producer

*Inspect air intake and wheel to make sure it is clear of debris and not rubbing on inlet cone. Inspect the wheel for cracks on the wheel or on its welds and make sure that all bolts are securely fastened. If all of these are ok and problem still exists, shut down the producer immediately and give us a call to investigate the cause.

Maintenance

Maintenance

It is extremely important to stay on top of your dryer maintenance and inspections. Neglect on this could shorten the life of your dryer, cause damage to persons or equipment and create unnecessary down time. Below is a Premier's recommendation of a maintenance schedule. If a problem exists address the problem immediately.

*Daily inspections= Check dryers for any debris or obstructions that could damage or harm the operation and also listen for any vibrations or noises out of the normal.

*Weekly inspections= Check for loose bolts throughout dryer application and inspect the wheel for cracks and debris build up. If you detect loose bolts it is typically a sign of vibration in that producer. If you have a crack in a wheel shut that producer down immediately and replace. If you have debris build up on the wheel remove build up immediately. Debris build up will cause the wheel to become out of balance and that can cause your motor and wheel to fail.

*Monthly inspections= Check voltage and amp readings on all producers.

Cleaning

*Soapy water or household cleaners will work satisfactory on the powder coated and plastic surfaces. For aluminum surfaces industrial strength cleaners are recommended.

Thank you for your purchase of your new Premier touchless drying system.

Dryer Decibel Readings

DECIBEL READINGS / LEVELS: ALL READINGS MAY VARY WITH BAY TYPES, SURROUNDINGS AND VARIABLE TYPES OF CONSTRUCTIONS.

DISTANCE FROM BAY	30HP EXIT DOOR CLOSED	30 HP EXIT DOOR OPEN	60HP 4-15HP, 2- TRUNKS
10 FT.	76	89	95
20 FT.	72	87	89
30 FT.	70	82	84
40 FT.	66	78	79
50 FT.	66	78	78
60 FT.	64	75	76

*DECIBEL LEVELS MAY DROP 4 TO 5 DBA'S OR MORE WITH FULL COVER SURROUNDS OR SILENCER CONES, READINGS MAY VARY.

* THESE READING WERE CONCLUDED WITH PREMIER PLASTIC HOUSINGS. ALUMINUM HOUSINGS ARE ON THE AVERAGE OF 6 TO 8 DECIBELS LOUDER.

* USE OF VFD WILL DECREASE LEVELS

Dryer Motor Specs

10 HP PRODUCER

VOLTAGE

208 VAC FLA - 24.9 AMPS

230 VAC FLA - 22.5 AMPS

460 VAC FLA - 11.2 AMPS

SF AMPS 1.25/40

CFM'S - 4200

RPM 3490/ 60 HZ

AIR VELOCITY - 135 MPH

TEFC MOTORS/3PHASE

FRAME SIZE - 215 TC

TOTAL WEIGHT 230 LBS.

Efficiency Level - (Minimum) 88.5%
guaranteed efficiency

Nema NCM efficiency (Normal)
90.2%

15 HP PRODUCER

VOLTAGE

208 VAC FLA - 36.2 AMPS

230 VAC FLA - 32.8 AMPS

460 VAC FLA - 16.4 AMPS

SF AMPS 1.25/40

CFM'S - 4500

RPM 3500/ 60 HZ 2860/50HZ

AIR VELOCITY - 142 MPH

TEFC MOTORS/3PHASE

FRAME SIZE - 215 TC

TOTAL WEIGHT 230 LBS.

Efficiency Level - (Minimum) 88.5%
guaranteed efficiency

Nema NCM efficiency (Normal)
90.2%