

Round Floor Pocket



Operators Manual

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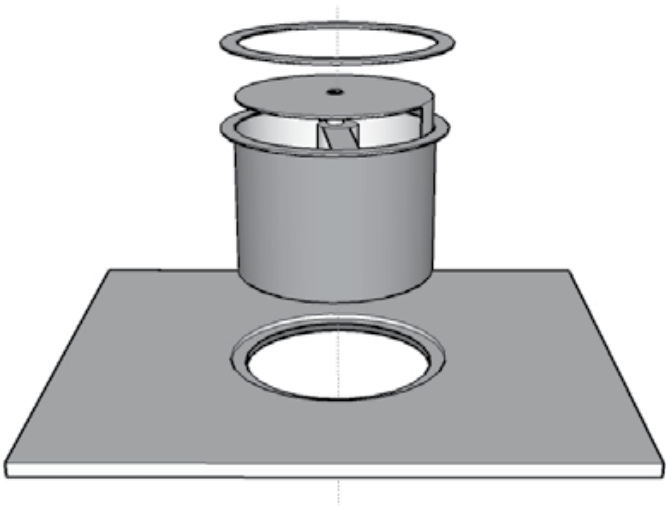
Introduction

The Ultratec Special Effects Floor Pocket is your solution to put your low-lying fog effect where you want it. It has been designed to operate in conjunction with the ECLIPSE (Low Fog Generator), and designed to be flush mounted into the stage floor.

The Round Floor Pocket is pneumatically powered and electrically controlled.

Features:

- Powder Coated, All Stainless Steel Chassis
- Pneumatically Operated/ Electronically Controlled
- DMX Control Available
- Open/ Close Speed Adjustable
- Mounts Flush w/ Stage Flooring
- 360 Degree or Directional Fog Distribution





Warnings!!

- 1.) Do not remove air lines while unit is pressurized / energized.
- 2.) Persons suffering from asthma or allergenic sensitivity may experience irritation, discomfort or allergic symptoms when exposed to fog effects.
- 3.) Ensure that this unit is grounded at all times. Failure to do so may result in serious injury.
- 4.) Use caution when walking around unit in the energized / up position. Unit could be a trip hazard.
- 5.) Keep hands and feet away from floor pocket opening when de-energizing unit to avoid pinching between the metal plates.
- 6.) Do not stand on the Floor Pocket top plate when in the up position as damage could occur to the non-rotating cylinder.



Safety Precautions!!

- 1.) Ensure that any operation of the machine is supervised by suitably trained and authorized personnel.
- 2.) Do not modify the machine or use a machine which has been damaged in any way.
- 3.) Allow sufficient air circulation around the machine at all times.
- 4.) Protect the machine from direct weather effects and wet locations.
- 5.) Only use fluids manufactured by Ultratec Special Effects.
- 6.) Do not continue to produce fog when visibility is reduced to 20" 50cm or below.
- 7.) Avoid directing fog output continuously at people.
- 8.) Ensure that adequate exhausting arrangements are available in the event of an emergency.
- 9.) Do not place hands near the floor pocket when operating.
- 10.) Do not stand on the floor pocket when operating.
- 11.) Fog effects can trigger smoke alarms and detectors. Please take suitable precautions to prevent false alarms.
- 12.) Slip Hazard!! Chilled fog can accumulate as liquid or moisture on the surrounding floor around the Floor Pocket opening.

Technical Specifications

POWER CONSUMPTION: 110V/ 220V, 50/60 Hz 1A/0.5A

POWER CABLE: 18/3 - 60" Long

POWER CONNECTOR: Grey Neutrik Power Con

AIR CONSUMPTION: Less then 1 CFM

AIR PRESSURE REQUIRED: 30 TO 100 PSI

AIR HOSE: 1/4" Poly Hose 60" long

AIR CONNECTOR: 1/4" Push lock style with 1/4" NPT termination

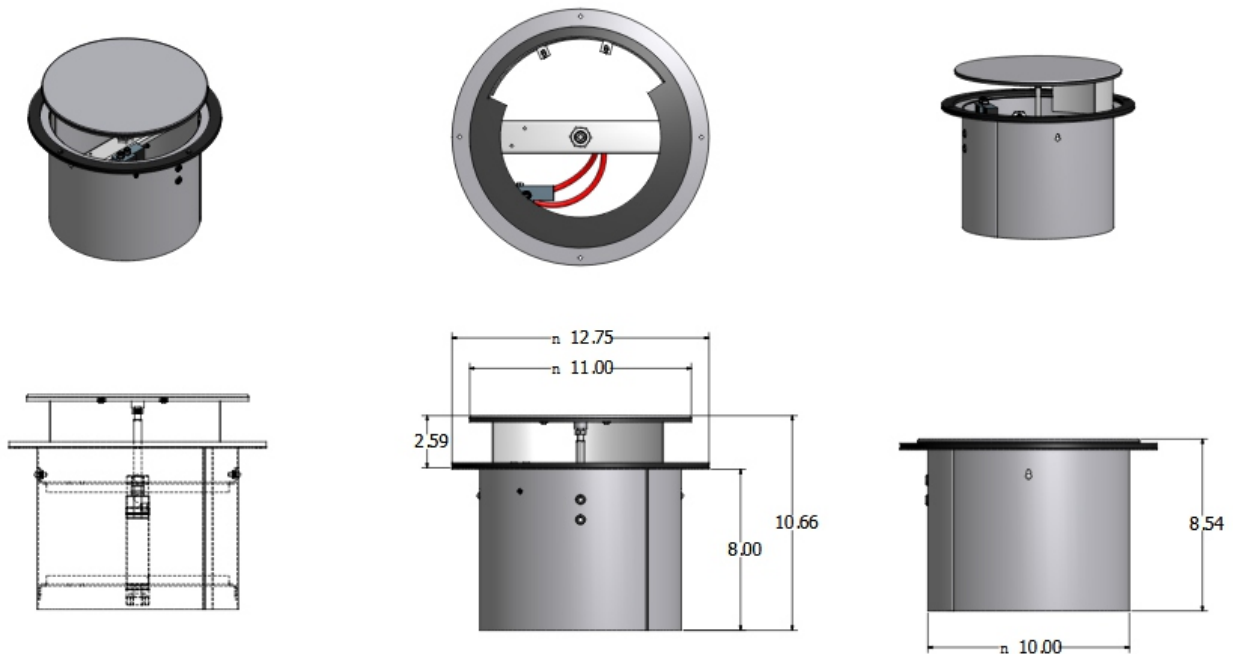
Included in packaging:

- Metal Mounting Ring
- 4 – 1 1/2" Screws

REGULATORY COMPLIANCE:

This product has been certified to CSA/UL Standards by QPS Canada Inc. or CE depending on market.

Technical Drawings



Installation

Using the supplied metal ring as a template, trace the inside and outside diameters in the desired installation location.

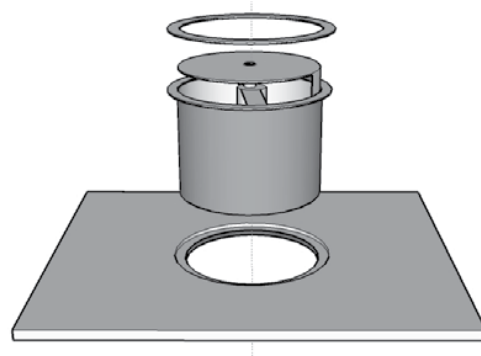
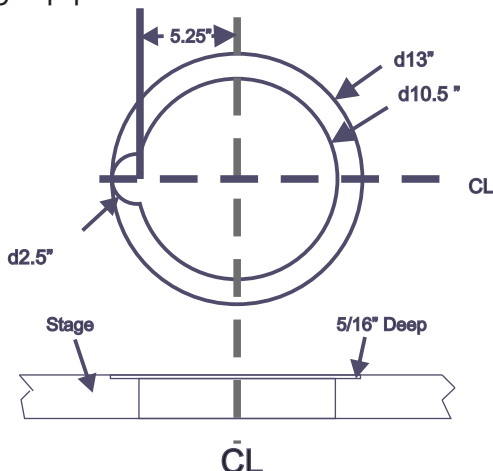
- 1.) Cut a 2 ½" hole through the stage 5 ¼" from desired center point.
- 2.) Cut a 10 ½" hole through the stage from center point. (The inner diameter of the template.)
- 3.) Using a router set at **5/16" deep** remove the material between the 10 1/2" hole and the 13" marking made using template. (The outer diameter of the template.)
- 4.) Set the floor pocket into the opening, paying attention to the direction of the fog diverter if used (See later in this manual).
- 5.) Place the metal ring onto the floor pocket aligning the mounting holes.
- 6.) Screw the ring and floor pocket to the floor using the supplied screws.
- 7.) Hook up power using the grey PowerCon Connector from the floor pocket and connecting to a controllable source.

DMX control can be obtained by using a DMX relay control like the CLF 2944 DMX Interface (110 Volt) or CLF-2943 LSG DMX Interface (220Volt).

- 8.) Hook up the compressed air hose from the floor pocket to a suitable supply of compressed gas. 30 TO 100 PSI

More on compressed gas sources later in this manual.

- 9.) Duct your floor pocket to the ECLIPSE Low Fog Generator. The Floor Pocket connects to either our 10" rigid pipe or 10" Flex Hose.



Operation

- 1) Energize the controllable power source to open / lift the Floor Pocket top plate.
- 2) De-energize the controllable power source to close / lower the Floor Pocket top plate.

NOTE: The rate of speed for opening and closing the floor pocket can be adjusted using the 2 flow valve adjustment screws located on the non -rotating cylinder.

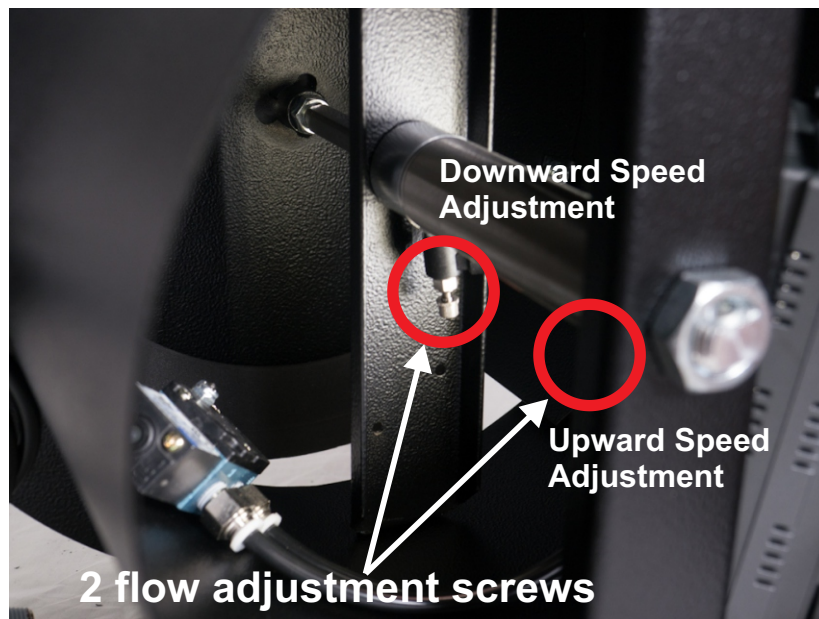
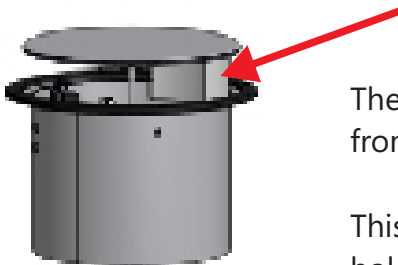


Photo of Floor Pocket As Seen From Below

Floor Pocket Directional Diverter



The Directional Diverter may be removed if 360 degree output from the floor pocket is desired.

This is done by removing the 2 nuts under the floor pocket lid that hold the diverter in place. Ideally this should be done before installation.

Compressed Gas Usage

One complete cycle (in & out) of the piston would use 4.2 cubic inches of volume at the recommended pressure of 30-100 psi. The compressed gas does not have to be air, you can use nitrogen or CO2 gas. CO2 is liquid in the tank so you can get a large volume from a small tank and regulator. A pressure regulator to drop the pressure is required. The number of cycles would depend on the volume of your tank. We offer a regulator and hose accessory to facilitate this. (see below).

CXP-1968 CO2 Regulator with 5 foot hose & High flow quick disconnect.

This unit is used to supply regulated CO2 gas to run an assortment of peripheral devices that require a source of compressed gas. It may be used to run a floor pocket on an ECLIPSE system. Shown here on a 5 pound CO2 tank, (*tank is not included.*)



Troubleshooting

If your floor pocket is not raising or lowering;

Check air pressure: Is air getting to the solenoid valve?

Check that the air line is connected to a suitable air source at the required pressure.

Speed control valve: Are the speed control valves allowing air to pass through?

Try adjusting the speed control valve, for the direction that the unit is not responding to.

Power to solenoid: Is power getting to the solenoid?

Check that unit is connected to a suitable power source and that power is present when trying to raise Floor Pocket and removed when trying to lower the Floor Pocket lid.

Freezing: Use dry air as moisture can freeze and impair valve or cylinder action.

Bent cylinder shaft: Stepping on lid can bend cylinder shaft.

Check that cylinder shaft is not bent. Replace the cylinder if it is bent.

Maintenance

Exterior

The casing of the Floor Pocket is stainless steel with a powder paint coating. To clean simply disconnect power source and wash with mild soap and warm water

Warranty

Hardware products come with a five-year warranty on parts and labor. If the unit in question has a material defect or fault that is caused in manufacturing, Ultratec Special Effects will provide free parts and labor to remedy the equipment. Ultratec Special Effects service department must be advised in a timely manner after defect appearance and the date of warranty request must be within five years of sale/purchase. Proof of sale and/or proof of purchase will be required for warranty to take effect.

Warranty service will be performed as follows: faulty parts will be repaired or replaced with the same or comparable parts, based on availability. Freight to our facility for warranty requests will be prepaid by the user/dealer. Upon completion of the repair, Ultratec Special Effects will return the unit via the most economical means available. Should you require the item express-returned, the user/dealer is responsible for indicating this request and for any difference in freight cost.

Warranty will be voided, and customer will lose all rights guaranteed by the warranty if any of the following are observed/occur:

If any non Ultratec Special Effects fluid is used at any point of operation.

If any adjustments or repairs are done to the machine in question by repair technicians not authorized by Ultratec Special Effects.

If our repair technicians observe any signs of incorrect handling/treating of machine in question.

Warranty services do not cause an extension of the warranty nor does a repaired product start a new warranty. This warranty only applies to the product supplied by Ultratec Special Effects, Ultratec Special Effects is not responsible for any losses, costs, or damages from the use of a defective product.

Any additional costs incurred are the responsibility of the Dealer and/ or the customer.

An RA (Return Authorization) number must be noted on the outside of each box being returned to our facility. Any package(s) without an RA number clearly marked, will not be accepted by our receiving department.

Export Distributors are required to carry out the warranty repair, parts will be supplied by Ultratec.

Please do not forget to remove any liquid from the machine when sending in for repair.

Please remember to include the RA Number on all items being shipped in for repairs.

To request a Return Authorization number please refer to our website - instructions below:

- 1) www.ultratecfx.com
- 2) Click on the SUPPORT tab along the top of the screen
- 3) Click on REQUEST RMA from the pull down
- 4) Fill in the required information
- 5) Click on "SEND" button

If you have any questions or require assistance please contact service at 519-951-3355/866-534-5557 or by email at Service@Ultratecfx.com.

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