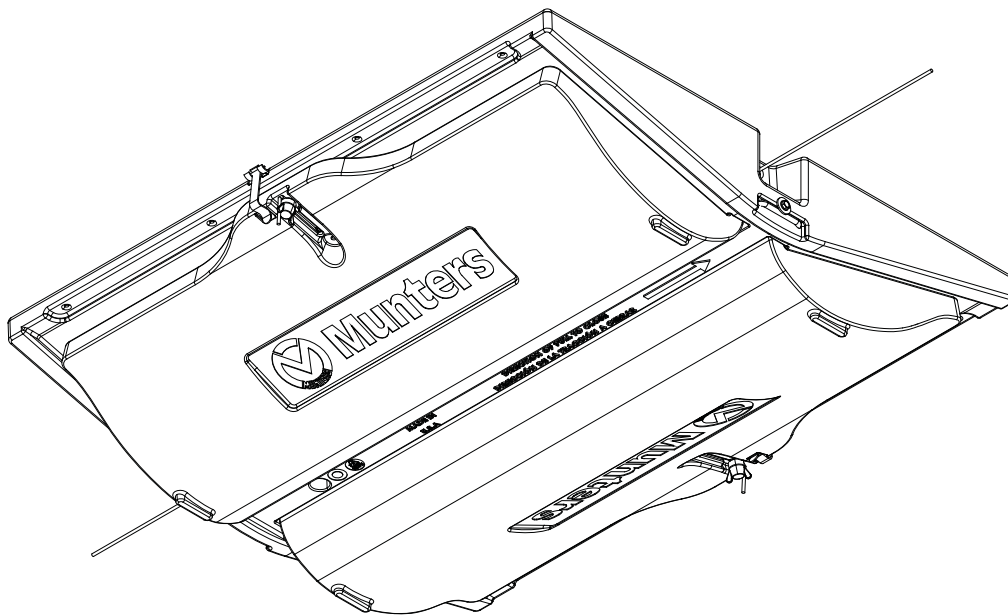


Top View



Bottom View

# USER'S MANUAL and INSTALLATION GUIDE

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## THANK YOU

Thank you for purchasing a BI28/BI48 Ceiling Inlet from Munters. Our equipment is designed to be the highest performing, highest quality equipment you can buy. With the proper installation and maintenance it will provide many years of service.

## PLEASE NOTE

To achieve maximum performance and insure a long life from your Munters product it is essential that it be ***installed and maintained properly***. Please read all instructions carefully before beginning installation.

## WARRANTY

For Warranty claims information see the "Warranty Claims and Return Policy" form QM1021 available from the Munters Corporation office at +1-800-227-2376 or by e-mail at [aghort.info@munters.com](mailto:aghort.info@munters.com).

### Conditions and Limitations:

- Products and Systems involved in a warranty claim under the "Warranty Claims and Return Policy" shall have been properly installed, maintained and operated under competent supervision, according to the instructions provided by Munters Corporation.
- Malfunction or failure resulting from misuse, abuse, negligence, alteration, accident or lack of proper installation or maintenance shall not be considered a defect under the Warranty.

## UNPACKING THE EQUIPMENT

Before beginning installation, check the overall condition of the equipment. Remove packing materials, and examine all components for signs of shipping damage. Any shipping damage is the customer's responsibility and should be reported immediately to your freight carrier.

### Each BI28M/BI48M includes:

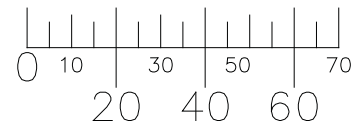
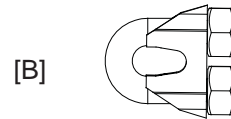
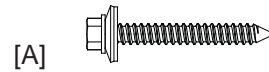
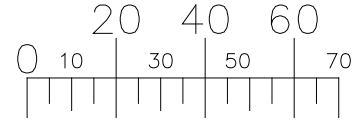
- 1 – Plastic Frame with 2 doors attached
- 1 – Insulation Stop, 304,8 mm tall
- 1 – Fiberglass Rod (BI48M) only
- 1 – Hardware package as follows:

#### **HP1240 for BI28M**

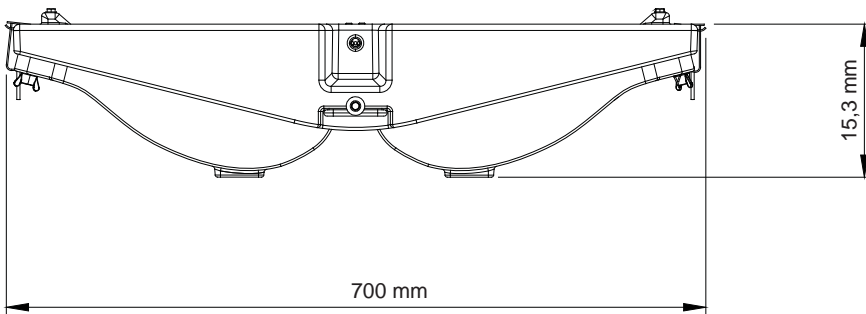
- [A]....8 – #9- 15 x 38,1 mm Hex Head Screw
- [B]....1 – 4,7 mm Dia. Cable Clamp

#### **HP1248 for BI48M**

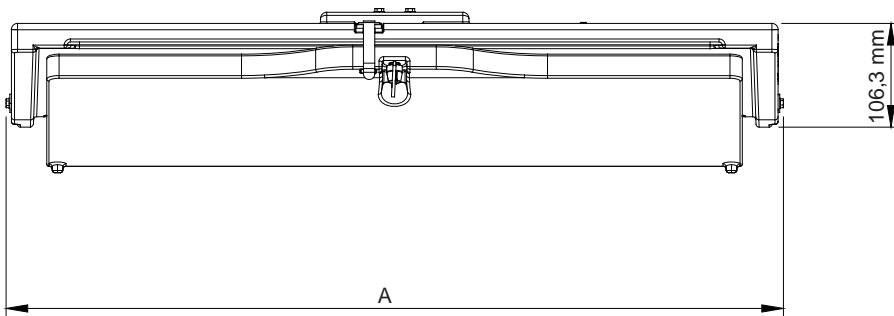
- [A]....12 – #9 - 15 x 38,1 mm Hex Head Screw
- [B]....1 – 4,7 mm Dia. Cable Clamp
- [C]....4 – 6,3 mm Dia. Retainer Clips



## DIMENSIONS



**End View**

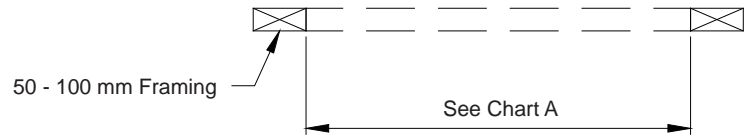


**Side View**

Inlet	A
BI28	798,5 mm
BI48	1331,9 mm

**Step 1**

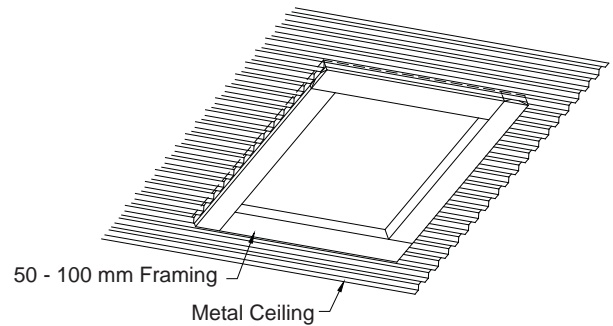
Construct a framed opening in ceiling according to Chart A and fasten to trusses or bracing between trusses. Trim out framing with 'J'-trim if a metal ceiling is used. **See Figure 1A and 1B.** If inlet is being installed in a house with a Tri-Ply ceiling, construct frame as shown in **Figure 1C.**



**Figure 1A**

Inlet	Width	Length
BI28	647,7 mm	647,7 mm
BI48	647,7 mm	1181,1 mm

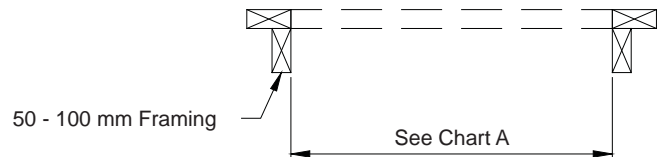
**Chart A**



**Figure 1B**

**IMPORTANT NOTE**

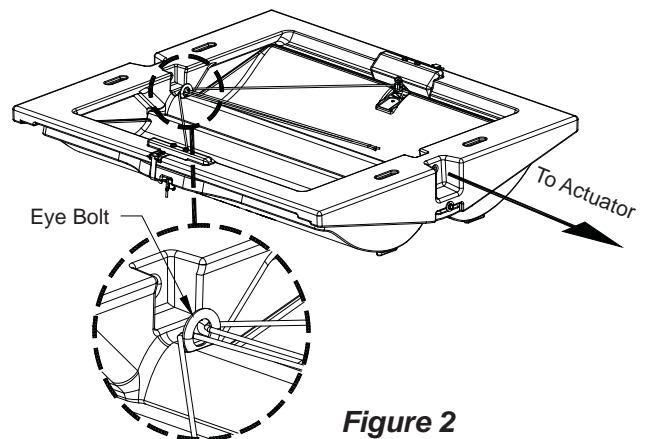
If installing inlets near heaters, it is recommended to install the BI28/BI48 inlet at a location far enough from heaters that will give a maximum temperature of 65.5°C. This should be approximately 610 - 915 mm from the heater.



**Figure 1C**

**Step 2**

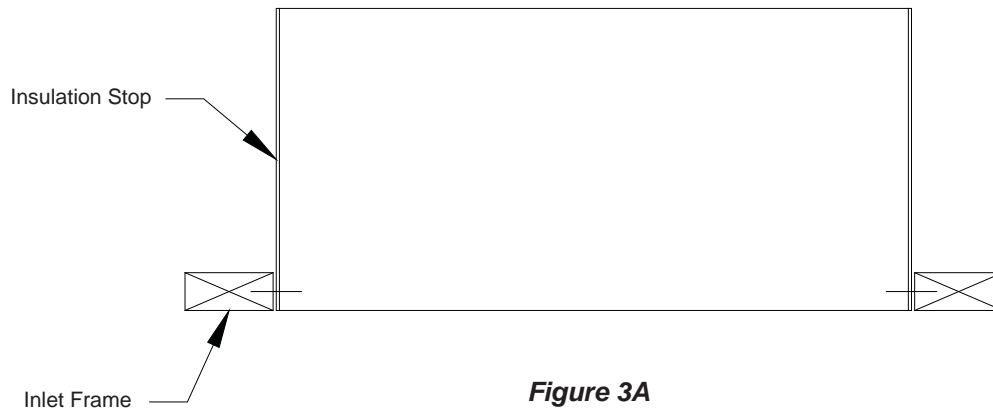
The hardware should already be installed as shown in **Figure 2.** The Lift Lines should be turned towards the actuator and the Eye Bolt will be away from the actuator.



**Figure 2**

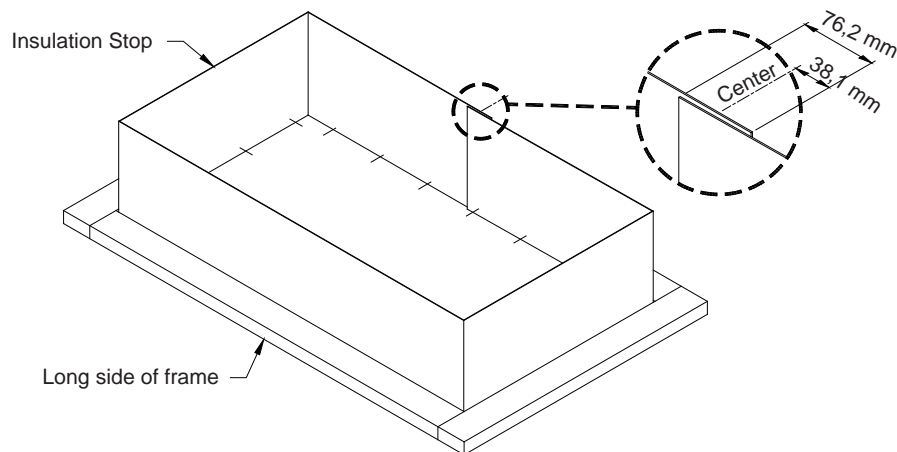
### Step 3A

For the BI28, install the provided insulation stop into the framed opening as shown using screws or staples (not Provided). **See Figure 3A.**



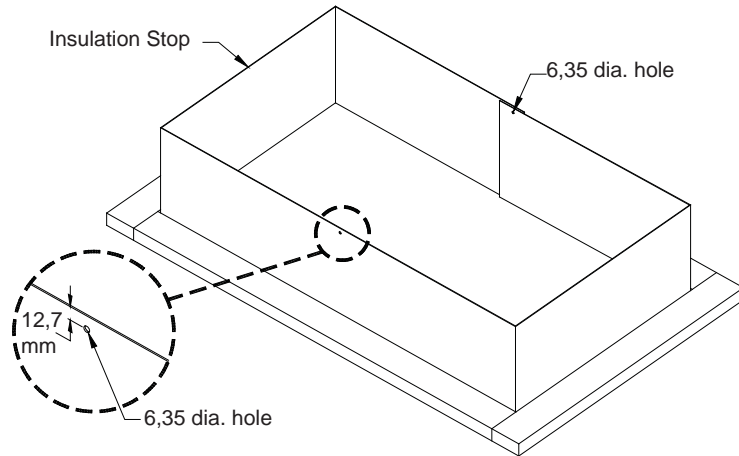
### Step 3B

For the BI48, find the center of the long side of the framing and start installing the insulation stop 38,1 mm from the center, so that the insulation stop overlaps the center of the opening. When the insulation stop is completely installed the 2 ends of the stop should overlap by 76,2 mm and the center of the overlap should be at the center of the long side of the framing. Use screws or staples (not provided) to fasten the insulation stop in place. **See Figure 3B and 3A.**



### Step 3C

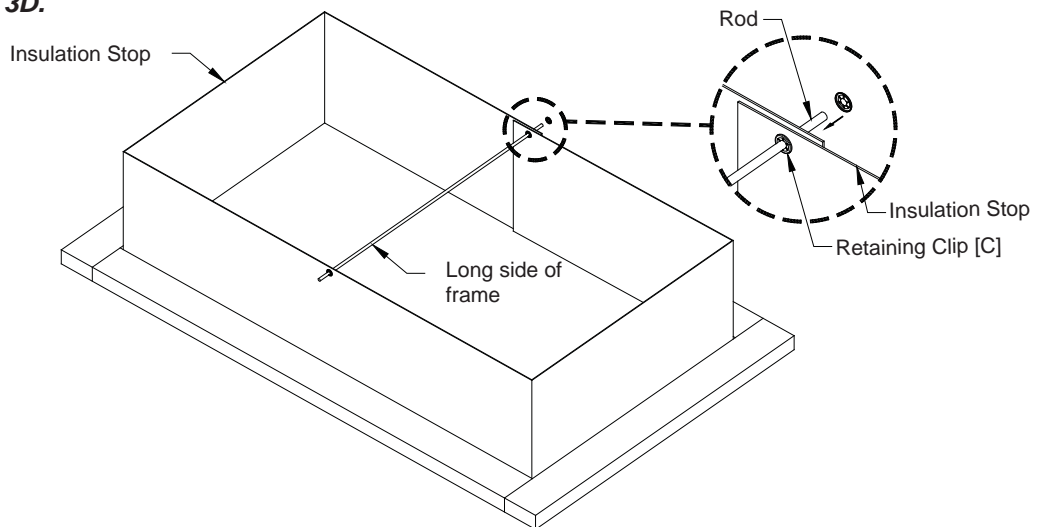
At the middle of the long side of the insulation stop, 12,7 mm down from the top, drill or punch a 6,35 mm dia. hole on each side of the insulation stop. See **Figure 3C**.



**Figure 3C**

### Step 3D

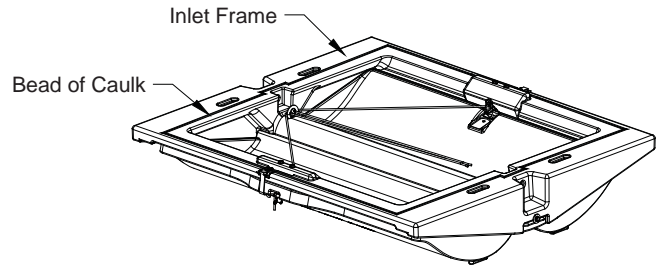
Install (1) Retaining Clip [C] on each end of the fiberglass rod. The Retaining Clip should be 38,1 mm from the end of the rod. Then insert the end of the rod through the new hole in the insulation stop from the inside out. Insert the other end of the rod through the hole in the other side of the insulation stop. Install the remaining Retaining Clip [C] on each end of the fiberglass rod, so that the insulation stop is between 2 of the clips. See **Figure 3D**.



**Figure 3D**

#### Step 4

Apply bead of caulk around top of inlet as shown in **Figure 4A**. Position inlet into the framed opening and attach inlet to framing using (8) Hex Head Screws [A] provided. **See Figure 4B**. Be careful not to over tighten as this may pull the frame out of shape.



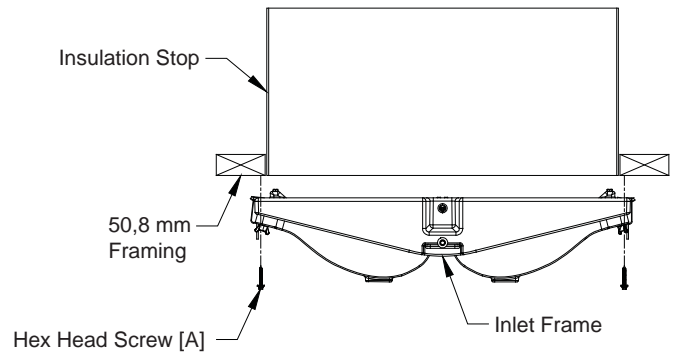
**Figure 4A**

#### Step 5

To ensure an airtight fit, caulk around outside of framing and inlet.

#### Step 6

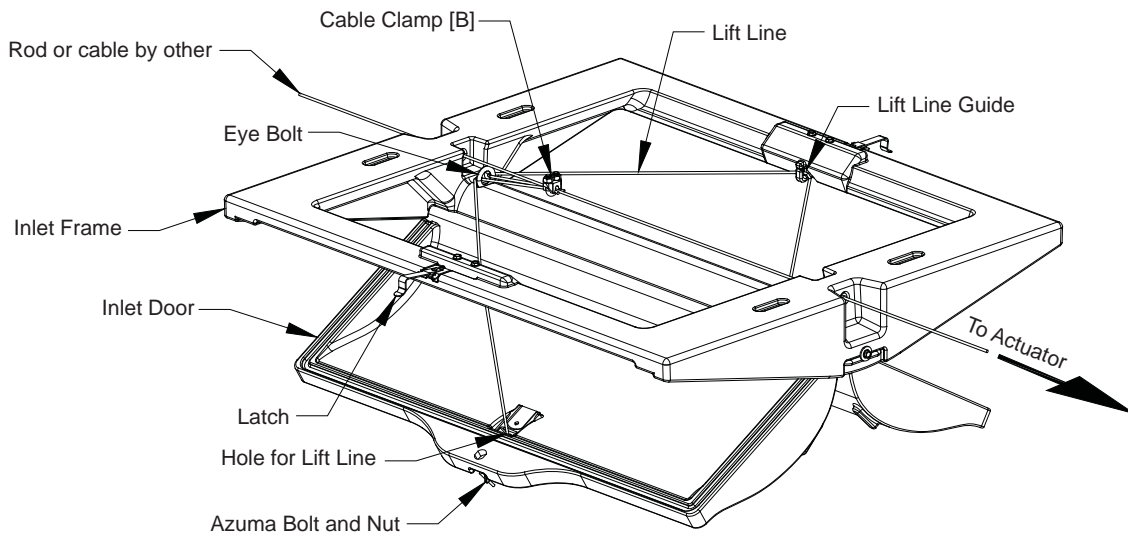
Proceed to routing the main actuator cable or rod through the holes in the inlet frame. It is required to utilize a spring or weight on the actuator cable end opposite the actuator. Once the cable is routed and the actuator is in the open position, begin connecting the lift lines from each inlet door to the actuator cable using Cable Clamp [B] provided. **See Figure 5**.



**Figure 4B**

#### Step 7

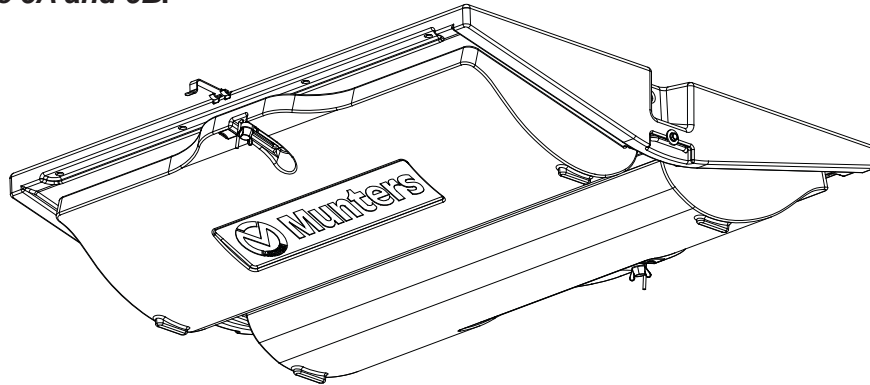
After lift lines for all inlets are connected and doors are adjusted as needed, caulk the hole in the door for the lift line, to prevent air leaks. **See Figure 5**.



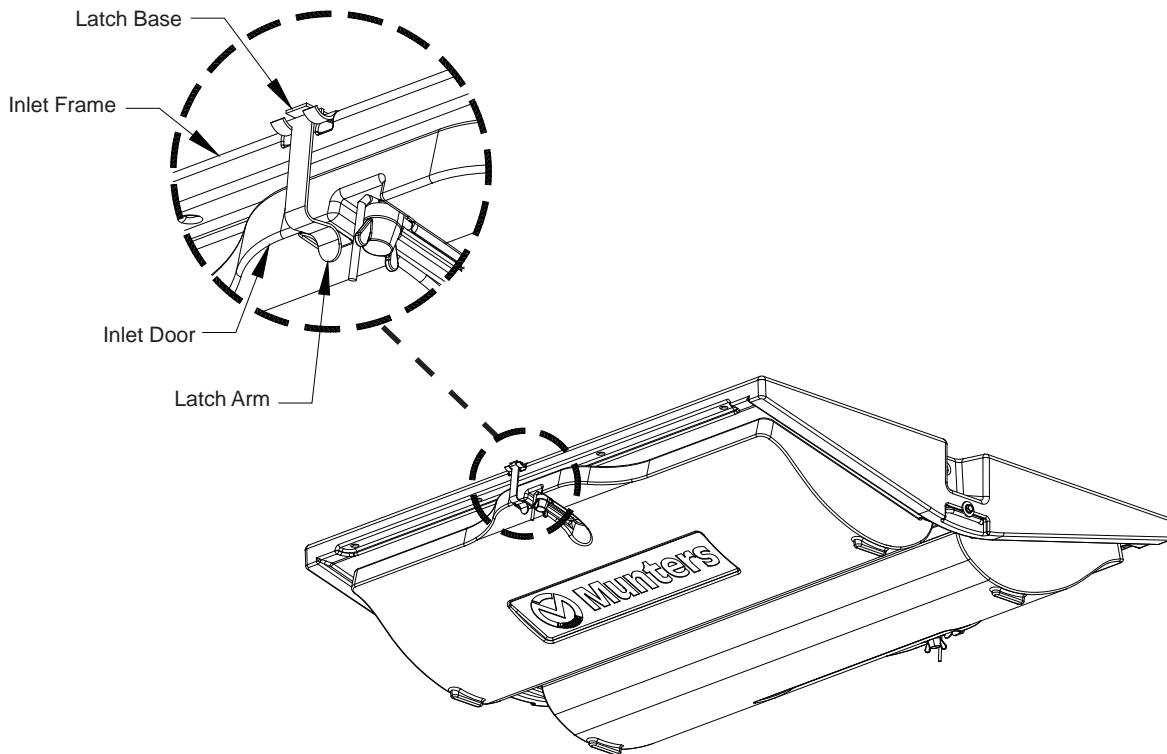
**Figure 5**

### Step 8

Latch is preinstalled near center of door. Rotate latch upward to unlock and downward to lock. When inlet is in normal operation, be sure latch is in up position so it does not interfere with door closing. **See Figure 6A and 6B.**



**Figure 6A**  
*Latch Shown in Open Position*

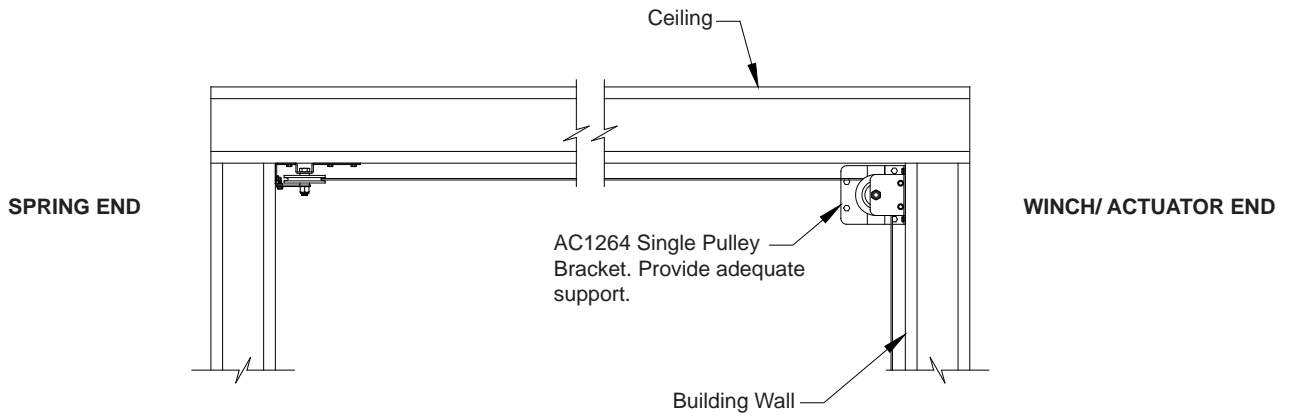


**Figure 6B**  
*Latch Shown in Closed Position*

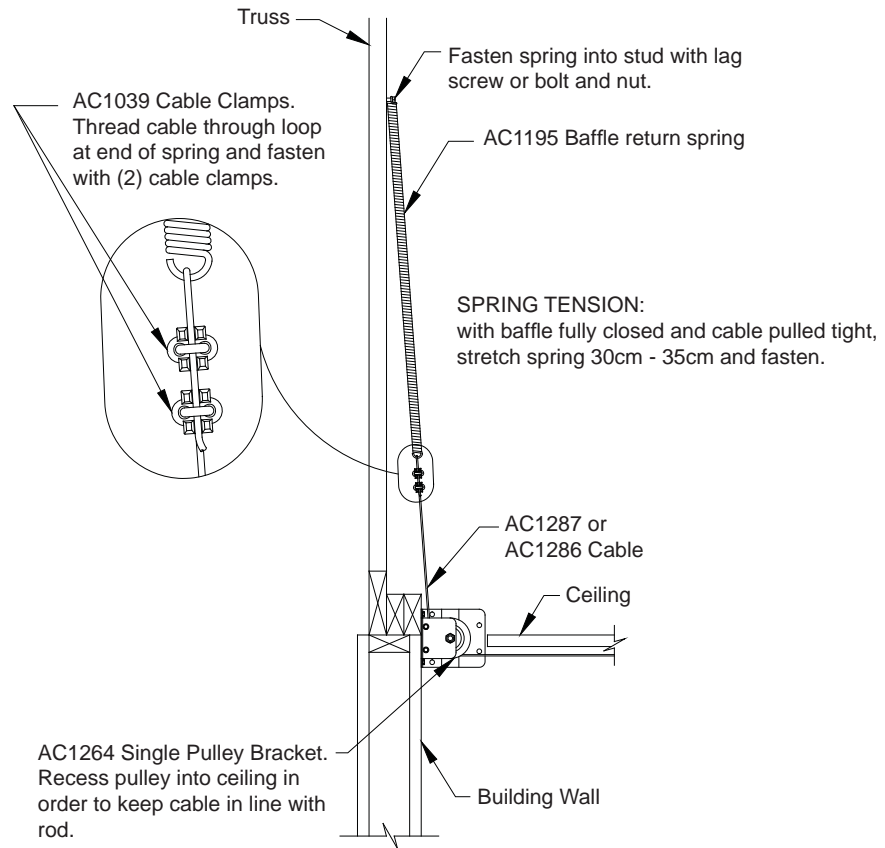


**Step 9**

Attach pulleys in line with the main rod or cable running through each BI28/BI48. **See Figure 7A and 7B.**



**Figure 7A**

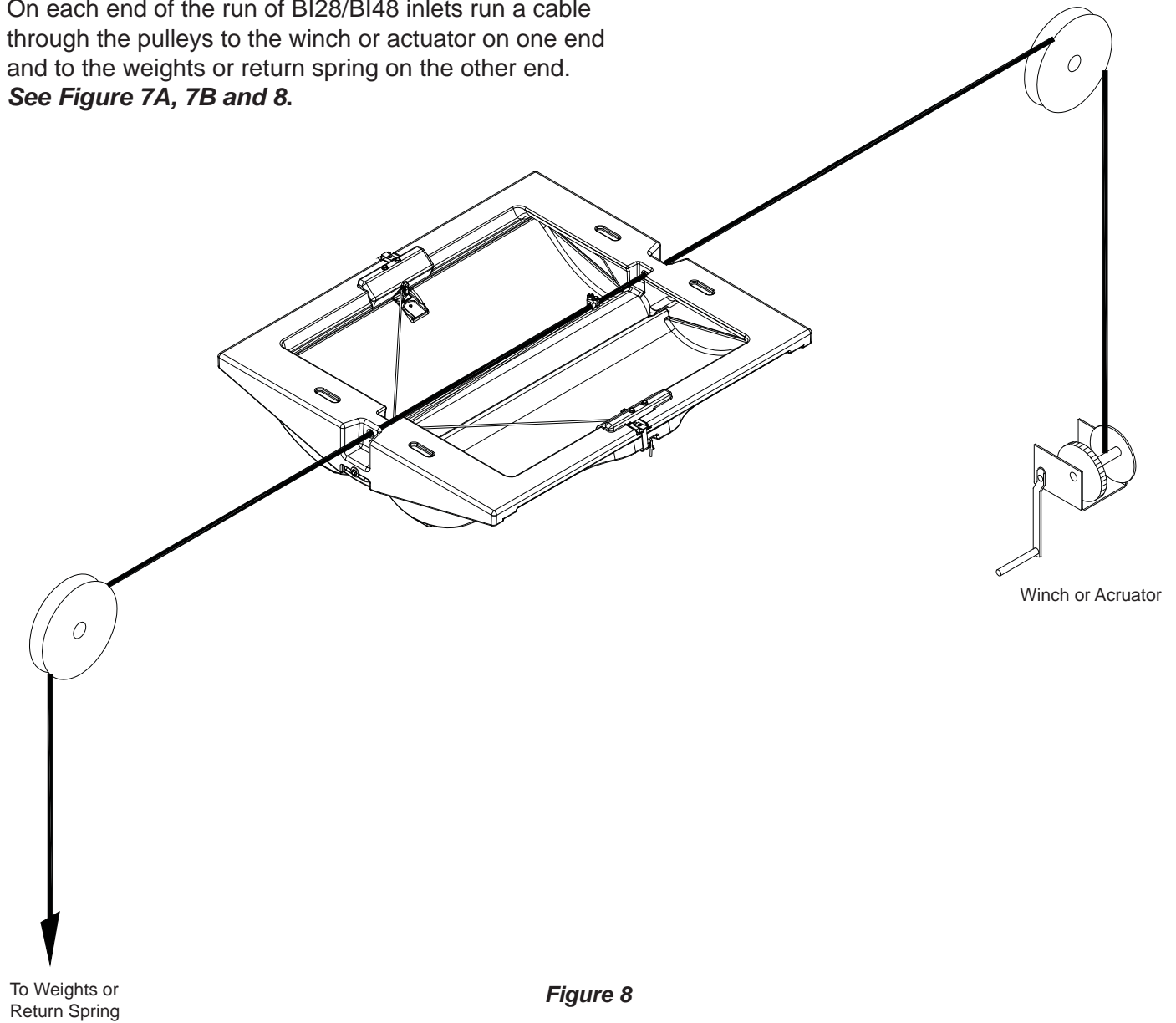


**Figure 7B**

### Step 10

On each end of the run of BI28/BI48 inlets run a cable through the pulleys to the winch or actuator on one end and to the weights or return spring on the other end.

**See Figure 7A, 7B and 8.**



**Figure 8**

### Step 11

With the winch or actuator at its fully closed position, check and readjust each BI28/BI48 door tightly closed. Use winch or actuator to open and close inlets a few times to make sure the doors open and close smoothly.

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#### Munters Corporation

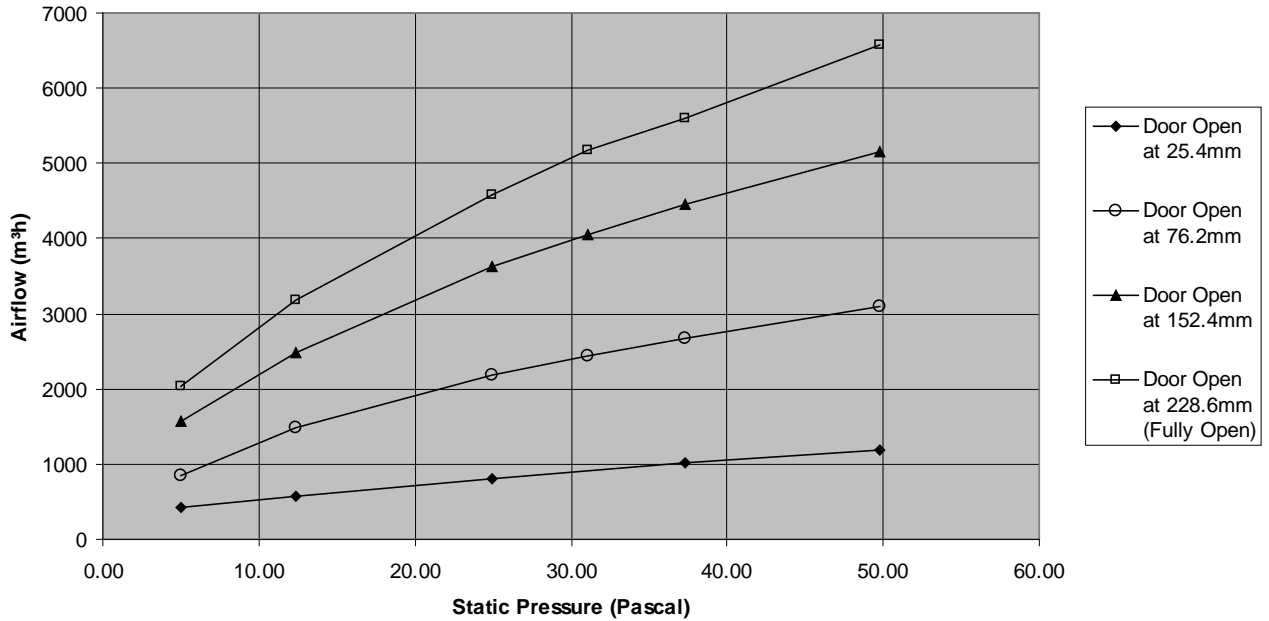
4215 Legion Dr. Mason, MI 48854-1036 USA  
Ph: +1 517 676-7070 Fax: +1 517 676-7078  
www.munters.us

**FORM: QM1110M**

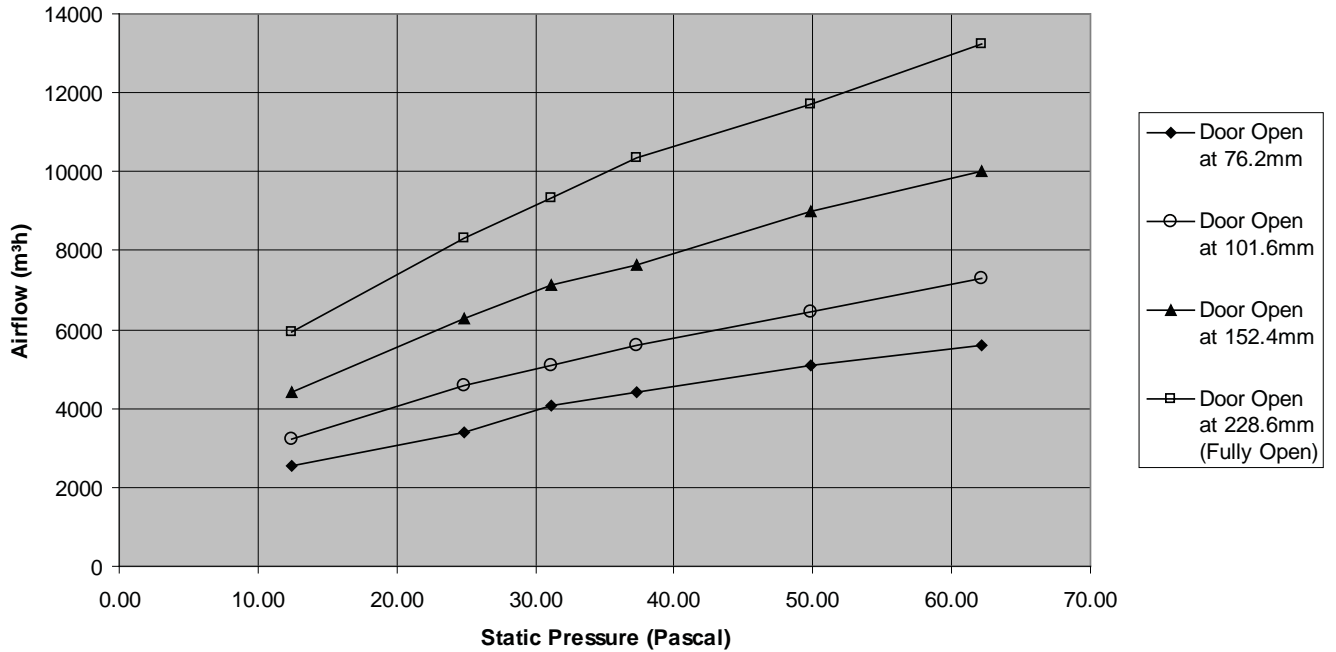
Rev. 1, November 2013  
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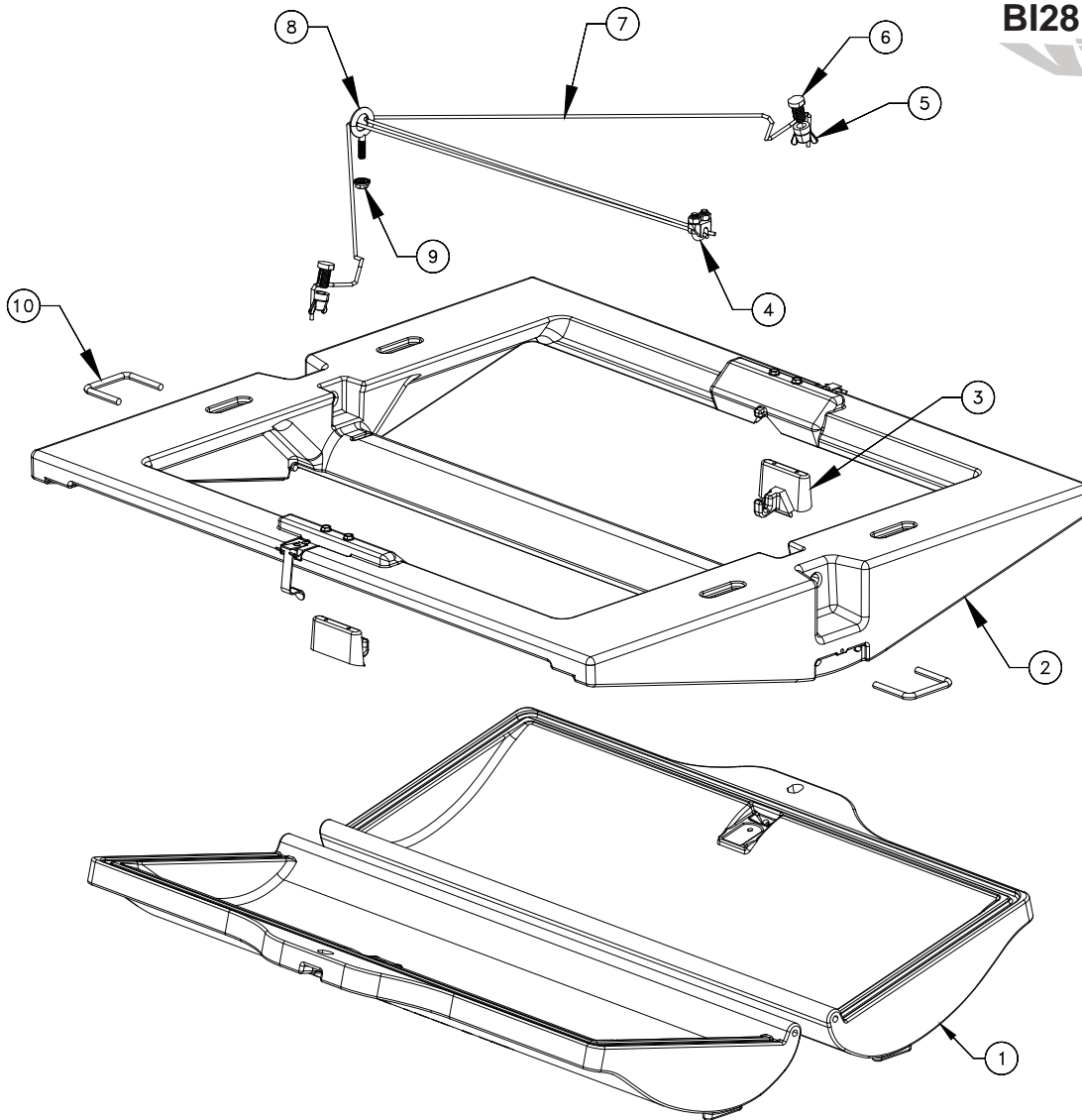
**PERFORMANCE DATA**

**BI28M, BI28M-01**



**BI48M, BI48M-01**





Item	Catalog Number		Part Name/Description	Qty
	BI28	BI48		
1	AC2635	AC2646	Inlet Door, Black Plastic	2
	AC2635-01	AC2646-01	Inlet Door, w/Insulation, Black, Plastic	2
2	AC2630	AC2641	Inlet Frame, Black Plastic	1
3	AC2640	AC2640	Lift Line Guide Insert, BI28/BI48, Black Plastic	2
4	AC1039	AC1039	4,76 mm Dia. Cable Clamp	1
5	AC0212	AC0212	Azuma Nut Only, Wing type, Blue Plastic	2
6	AC0211	AC0211	Azuma Bolt only, Split type, Blue Plastic	2
7	AC1009	---	1/8" x 36"L. Braided Lift Line; White	2
	---	AC1014	1/8" x 66"L. Braided Lift Line; White	2
8	KS2755	KS2755	6,35 mm - 20 x 50,8 mm L. Closed Eye Bolt, Stainless Steel	1
9	KN0702	KN0702	6,35 mm - 20 Hex Serrated Flange Nut, Stainless Steel	1
10	AC2645	AC2645	BI28/BI48 Inlet Door Hinge Pin, Stainless Steel	2