

Chore-Time Warranty

Chore-Time Equipment warrants each new product manufactured by it to be free from defects in material or workmanship for one year from the date of initial installation by the original purchaser. If such a defect is found by Chore-Time to exist within the one year period, Chore-Time will, at its option, (a) repair or replace such product free of charge, F.O.B. the factory of manufacture, or (b) refund to the original purchaser the original purchase price, in lieu of such repair or replacement.

Conditions and limitations:

- 1. The product must be installed and operated in accordance with instructions published by **Chore-Time** or warranty will be void.
- 2. Warranty is void if all components of a system are not supplied by Chore-Time.
- 3. This product must be purchased from and installed by an authorized Chore-Time dealer or certified representative thereof, or the warranty will be void.
- 4. Malfunctions or failure resulting from misuse, abuse, negligence, alteration, accident, or lack of proper maintenance shall not be considered defects under this warranty.
- 5. This warranty applies only to systems for the care of poultry and livestock. Other applications in industry or commerce are not covered by this warranty.

Chore-Time shall not be liable for any **Consequential or Special Damage** which any purchaser may suffer or claim to have suffered as a result of any defect in the product. "**Consequential**" or "**Special Damages**" *as used herein include, but are not limited to, lost or damaged products or goods, costs of transportation, lost sales, lost orders, lost income, increased overhead, labor and incidental costs and operational inefficiencies.*

THIS WARRANTY CONSTITUTES CHORE-TIME'S ENTIRE AND SOLE WARRANTY AND CHORE-TIME EXPRESSLY DISCLAIMS ANY AND ALL OTHER WARRANTIES, INCLUDING, BUT NOT LIMITED TO, EXPRESS AND IMPLIED WARRANTIES AS TO MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE SOLD AND DESCRIPTION OR QUALITY OF THE PRODUCT FURNISHED HEREUNDER.

Any exceptions to this warranty must be authorized in writing by an officer of the company. Chore-Time reserves the right to change models and specifications at any time without notice or obligation to improve previous models.

CHORE-TIME EQUIPMENT, A Division of CTB, Inc. P.O. Box 2000 Milford, Indiana 46542-2000 U.S.A.

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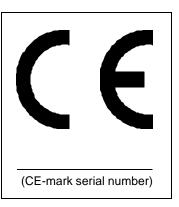
Support Information

The Turbo-Cool 6" Recirculating Evaporative Cooling System is designed to help cool livestock and poultry houses. The system is shipped unassembled. Using this equipment for any other purpose or in a way not within the operating recommendations specified in this manual will void the warranty and may cause personal injury.

This manual is designed to provide comprehensive planning, installation, operation, and parts listing information. The Table of Contents provides a convenient overview of the information in this manual. The Table of Contents also specifies which pages contain information for the sales personnel, installer, and consumer (end user).

IMPORTANT: **CE stands for certified Europe.** It is a standard which equipment must meet or exceed in ordered to be sold in Europe. **CE** provides a benchmark for safety and manufacturing issues. **CE is required only on equipment sold in Europe.**

Chore-Time Equipment recognizes CE Mark and pursues compliance in all applicable products. *Fill in the CE-Mark serial number in the blank space provided for future reference.*



Distributor and Installer Information

	ng information about your Product. ean, dry place for future reference.
Distributor's Name	
Distributor's Address	
	Date of Purchase
Installer's Name	
Installer's Address	
Installer's Phone	Date of Installation
System Specifications	

Safety Information

Caution, Warning and Danger Decals have been placed on the equipment to warn of potentially dangerous situations. Care should be taken to keep this information intact and easy to read at all times. Replace missing or damaged safety signs.

Using the equipment for purposes other than specified in this manual may cause personal injury and or damage to the equipment.

Safety–Alert Symbol

This is a safety–alert symbol. When you see this symbol on your equipment, be alert to the potential for personal injury. This equipment is designed to be installed and operated as safely as possible...however, hazards do exist.

Signal Words

Signal words are used in conjunction with the safety–alert symbol to identify the severity of the warning.

DANGER	indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.	
WARNING	. indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.	
CAUTION	. indicates a hazardous situation which, if not avoided, MAY result in minor or moderate injury.	







DANGER: Electrical Hazard

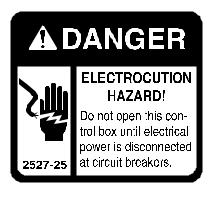
Disconnect electrical power before inspecting or servicing equipment unless maintenance instructions specifically state otherwise.

Ground all electrical equipment for safety.

All electrical wiring must be done by a qualified electrician in accordance with local and national electric codes.

Ground all non-current carrying metal parts to guard against electrical shock.

With the exception of motor overload protection, electrical disconnects and over current protection are not supplied with the equipment.



Technical Information

Required water supply: Humidity	2.0 gpm per 100 sq. ft. of pad at 100°F 20% Relative
Supply water pressure:	30 - 45 psi
Water Quality:	6 - 9 PH, salt concentration less than 40,000 ppm
Air Speed Through Pad:	Munters Celdek & Glacier Core 45°/15° pad 425 cfm/sq. ft.
	Munters Mi-T-Cool 500 cfm/sq. ft.
Required electrical service:	230 V. 1-Phs, 50/60 Hz. , 4.8 amp
Maximum pad length per pump:	50' at 60 Hz, 40' at 50 Hz.

Important

Chore-Time Equipment strongly recommends that a good alarm system should be installed in confinement buildings to warn of power failure and high temperature.

Chore-Time Equipment also recommends that an alternate power source be available for confinement buildings in case of power failure.

Tools Required for Installation

Socket Wrench • 1/2" & 5/16" Sockets • Drill and 5/16" Drill Bit • 1/2" Wrench • Teflon Tape PVC Cement • Utility Knife • Saw

Planning Information

Figure 1 shows recommended Evaporative Cooling Pads vs. Tunnel Fan locations.

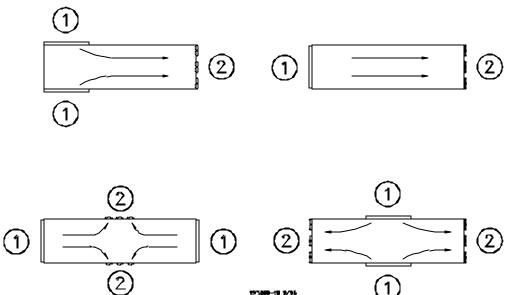


Figure 1. Possible Evaporative Cooling System Layouts (top view)

Key	Description
1	Cooling Pads
2	Tunnel Fans

Framing Information

Figure 2 shows two options for installing the cooling pad relative to the tunnel curtain and provides the required information for the Evaporative Cooling System opening.

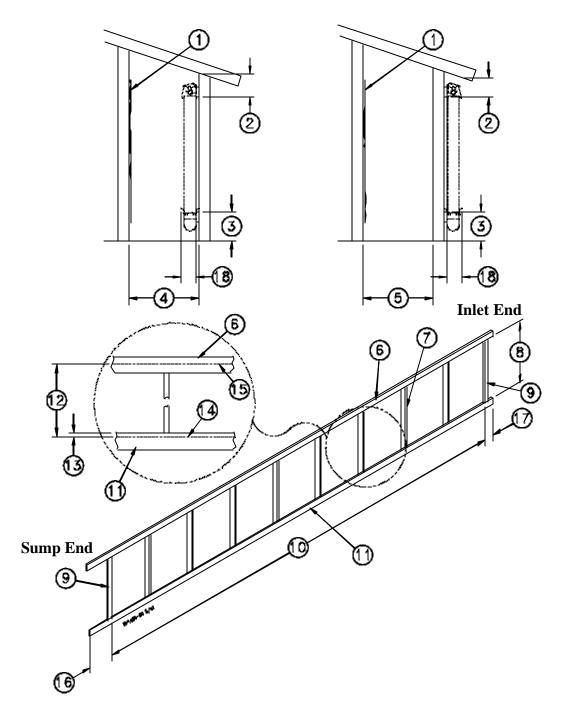
Notice the dimensional information included.

Frame the Pad opening using treated lumber.

- 1. Determine the location of the bottom stringer. See Figure 2, Item 3.
- Note: The maximum slope of the opening is 1-1/2" (3.8 cm) from the inlet end to the sump end. The sump end must be level or lower than the inlet end.
- Use screws to secure the bottom stringer to the studs. The lower 2" x 6" (50 x 152 mm) Stringer must be capable of supporting 30 lbs/ft. (4.2 kg/m).
- 2. Snap a chalk line on the lower stringer at the locations specified in **Figure 2**, Item 13. This chalk line will determine the location of the lag screws for the Trough Supports.
- 3. Determine the location of the top stringer. See **Figure 2**, Item 8. The distance between the top and bottom stringers should be approximately 1-1/2" (3.8 cm) less than the height of the Evaporative Cooling Pads.
- **Example**: for a 60" tall Evaporative Cooling Pad the distance between the stringers would be 60" (1-1/2") = 58-1/2".

Note: The slope (if any) of the top stringer must be the same as the bottom stringer.

4. Snap a chalk line on the top stringer at the locations specified in **Figure 2**, Item 12. This chalk line will determine the location of the Splash Plate lower holes.



Item	Description	Item	Description
1	Curtain	10	Width of Pad Bank
2	10" (250 mm) Minimum Clearance	11	2" x 6" (50 x 152 mm) Bottom Stringer
3	15" (38 cm) Minimum Clearance	12	Pad Height plus 2-3/4" (7 cm)
4	30" - 36" (76 - 91 cm) Walkway	13	1-1/4" (3.2 cm)
5	6" (15 cm) Minimum Clearance	14	Bottom Stringer Chalk Line
6	2" x 6" (50 x 152 mm) Top Stringer	15	Top Stringer Chalk Line
7	Studs	16	24" (61 cm) for Sump Assembly
8	Pad Height less 1-1/2" (38 mm)	17	9" (23 cm) for Inlet Assembly
9	End Framing	18	7-1/2" (19.1 cm)

Evaporative Cooling System Installation

Splash Plate and Pipe Hanger Installation

Secure the Splash Plates to the upper stringer, using a 10-16x1-1/2" screw at each end.

Note: The end holes in the Splash Plate must align with the chalk line and the end of the first Splash Plate must be flush with the inside of the end framing. See **Figure 3**.

Align the end mounting holes on the chalk line. See **Figure 3**.

Secure the Pipe Hangers to the stringer, through the Splash Plate, using (2) 10-16x1-1/2" screws. The lower hole in the Pipe Hanger should align with the chalk line on the stringer.

Hang remaining Splash Plates butting them tightly end to end. If the last Splash Plate is too long to fit within the end framing, cut as shown in **Figure 3**.

Note: The Splash Plates are pre-drilled for installation and for accurate spacing and locating the Pipe Hangers.

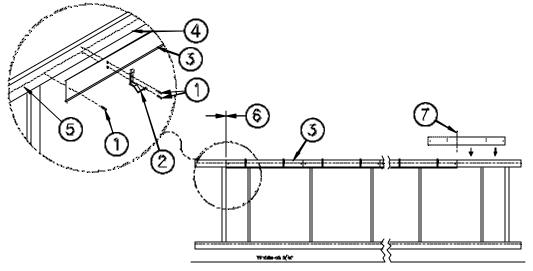


Figure 3. Splash Plate & Pipe Hanger Installation

Item	Description
1	10-16x1-1/2" Screw
2	Pipe Hanger
3	Splash Plate
4	Upper Stringer
5	Chalk Line
6	Flush with edge of end framing
7	Cut here if too long

Trough Installation

The Trough must be secured to the lower stringer. See the Framing Installation section for stringer specifications.

1. Mark the Trough Support locations.

The first and last Trough Supports must be positioned flush with the inside of the framed opening. The bolt hole should be aligned on the chalk line. See **Figure 4**.

The next Trough Support (at the sump end) must be positioned in 10" (25 cm). See **Figure 4**.

Space the remaining Trough Supports 20" (50 cm) apart.

The chalk line provides the proper vertical location of the lag screws.

- 2. Loosely secure the Trough Hangers, Trough Supports, and plastic washers to the lower stringer, as shown in **Figure 4**, using the 5/16 x 1-1/2" stainless steel lag screws.
- Note: Leave the Trough Supports loose to allow the Trough to be installed. See Figure 5, Step 1.

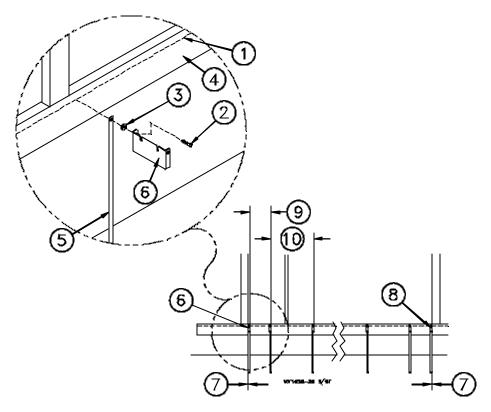


Figure 4. Trough Support and Hanger Installation

Item	Description
1	Chalk Line
2	5/16 x 1-1/2" S.S. Lag Screw
3	Nylon Washer
4	Bottom Stringer
5	Hanger

Item	Description
6	Trough Support (Left End)
7	Flush with edge of end framing
8	Trough Support (Right End)
9	10" (25 cm)
10	20" (50 cm)

3. The Trough should extend out past the last Trough Support at the Sump Assembly end at least 5" (12.7 cm)

The Trough should extend out past the last Trough Support at the inlet end at least 1" (2.5 cm).

The Trough will be cut to length after the End Assembly is installed.

Roll the Trough out flat on the floor below the Trough Hangers.

4. Beginning at one end, slide one side of the Trough between the stringer and the Trough Support. Make sure the Trough edge is up against the washer. See **Figure 5**, Step 1.

- 5. Tighten the lag screw to secure the Trough in place against the stringer. See **Figure 5**, Step 2. Repeat steps 4 5 for all Trough Supports.
- 6. Form a loop, using the Trough and Trough Hangers, as shown in **Figure 5**, Step 2.
- 7. Use the hole in the Trough Support and Trough Hanger as a guide to drill or punch a 5/16" (8 mm) hole in the Trough.
- Fasten the Trough and Trough Hanger to the Trough Support using the 5/16-18 x 1/2" bolt and 5/16" hex nut. Repeat steps 6 8 for each Trough Support.
- Wipe the inside of the Trough at the Trough End Assembly location to remove debris that may prevent proper sealing. Position the End Assembly against the outside of the Trough Support at the inlet end of the Trough. See Figures 6 & 7.

Position the Adjustable Clamp directly over the Trough End Assembly, orienting as shown in **Figure 6**, and tighten firmly.

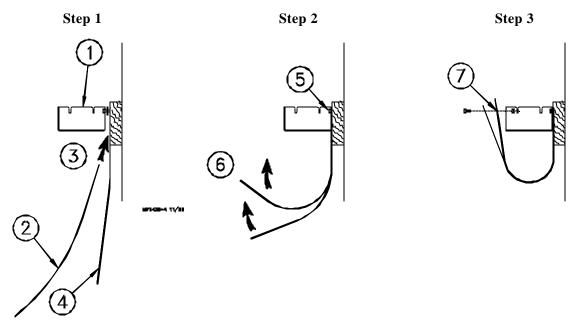
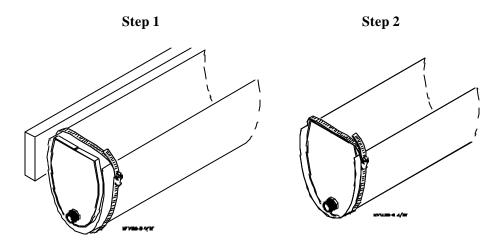


Figure 5. Trough Installation (end view)

Item	Description
1	Trough Support
2	Trough
3	Insert Trough between the Trough Support and the
	stringer.
4	Trough Hanger
5	5/16" x 1-1/2" Lag Screw
6	Wrap Trough and Trough Support to form loop.
7	Drill or punch a 5/16" (8 mm) hole through Trough.



Note: The Trough Support and Trough Hangers are not shown for clarity.

Figure 6. Trough End Assembly Installation

10. Connect the outlet end of the Water Level Regulator to the Trough End Assembly. See **Figure 7**.

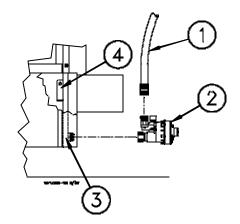


Figure 7. Inlet Installation

Item	Description
1	3/4" Garden Hose (not supplied)
2	Water Level Regulator
3	Trough End Assembly
4	Trough Support

End Panel Installation

The End Panels should be installed flush with the inside of the opening (at both ends).

- 1. Locate the top mounting hole (in the flange of the Upper End Panels) on the chalk line. This will properly align the hole for the Distribution Pipe with the Pipe Hangers. See **Figure 8**. Secure the Upper End Panels to the top stringer using the 10-16x1-1/2" Screws, as shown in **Figure 8**.
- 2. The Lower End Panels should overlap on the outside of the Upper End Panels to provide proper watershed.
- 3. Align mounting holes in the upper and lower end panels and secure the end panels to the frame using the 10-16x1-1/2" Screws.

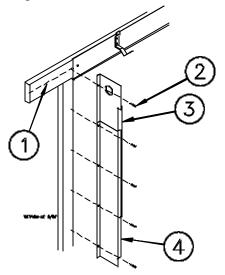


Figure 8. End Panel Installation

Item	Description	
1	Chalk Line on top stringer	
2	10-16 x 1-1/2" S.S. Screw	
3	Upper End Panel	
4	Lower End Panel	

Pad Support Installation

Set the Pad Supports on the Trough Hangers, as shown in **Figure 9**. The Pad Supports should extend to both End Panels.

Overlap the Pad Supports as required, depending on the Trough length.

Note: Sump components and End Panels not shown for clarity.

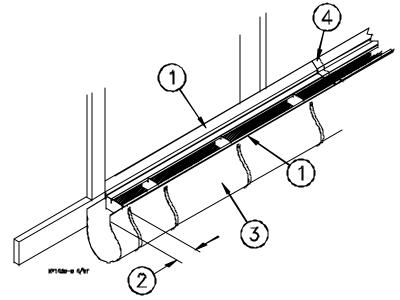


Figure 9. Pad Support Installation

Item	Description
1	Pad Support
2	5" (12.7 cm) Minimum at Sump End
3	Trough
4	Overlap 1" (2.5 cm) Minimum

Distribution Pipe Installation

1. Set a Distribution Pipe on the Pipe Hangers above the inlet end of the Trough.

Note: The belled end must be toward the sump end.

- Assemble the Distribution Pipes by inserting the straight end of one pipe into the belled end of another. It is not necessary to glue the Distribution Pipes together.
 IMPORTANT: The spray holes, in the Distribution Pipes, MUST all be aligned and pointing straight up.
- 3. Slide the straight end, of the Distribution Pipe directly above the Sump Base, through the End Panel (since the bell will not fit through the End Panel hole) and into the bell of the next Distribution Pipe.
- 4. Verify that the spray holes are in alignment, then install a $10-16 \times 1/2$ " S.S. Screw at each bell to secure the pipes together.
- Sump End: The distance from the End Panel to the end of the pipe bell should be approximately 10-1/2" (26.6 cm).

Inlet End: The Pipe should extend past the inlet end End Panel.

6. Install a 10-16 x 1/2" S.S. Screw in each spray hole that falls outside the End Panels (at either

end).

7. Insert at 2" Mechanical Gripper Plug in the end of the Distribution Pipe. See **Figure 10**.

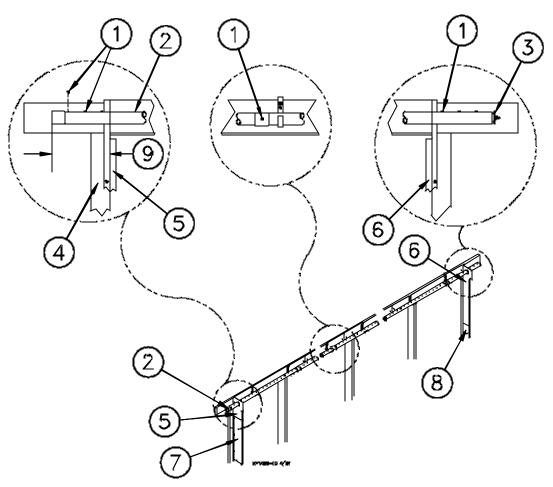


Figure 10. Distribution Pipe Installation

Item	Description		
1	10-16 x 1/2" S.S. Screw		
2	5' Distribution Pipe		
3	2" Mechanical Gripper Plug		
4	Framing		
5	Upper End Panel (R.H)		
6	Upper End Panel (L.H.)		
7	Lower End Panel (R.H.)		
8	Lower End Panel (L.H.)		
9	10-1/2" (26.6 cm) Approximately		

Sump Assembly Installation

- 1. Trim the Trough at the Sump end to 5" (12.7 cm) of overhang. Position the Sump Base at the sump end of the Trough, as shown in **Figure 11**. The Sump Base should set directly against the end Trough Support.
- Wipe the inside of the Trough at the sump end to remove debris that may prevent proper sealing.
 Secure the Sump Base in the end of the Trough, using an Adjustable Clamp, as shown in Figure 11.

15

The Sump Base must sit squarely on the floor or support surface.

3. Install the 3/4" x 4-3/4" PVC Pipe in the fitting inside the Sump Base. This pipe serves as the overflow pipe.

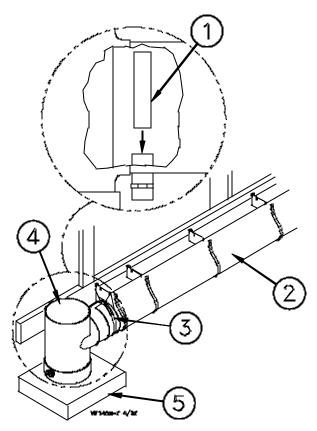


Figure 11. Sump Base Installation

Item	Description	
1	3/4" Overflow Pipe	
2	Trough	
3	Adjustable Clamp	
4	Sump Base	
5	Sump Support (not supplied)	

Sump Components Installation

Assemble the Sump Components as shown in **Figure 12**, beginning at the Pump. The lengths of 1-1/2" PVC Pipe (Item #6) will vary depending on desired Valve height, pad height, etc.

Note: The 1-1/2" PVC Tee slips <u>inside</u> the bell of the Distribution Pipe. Use teflon tape (not supplied) on threads as required. Use PVC glue on slip connections.

Plug the electrical cord into the receptacle (not supplied).

Note: Make sure the vent hose inside the electrical cord is not obstructed. Route the 1/4" Black Bleed Off Hose to a drain for waste water. Do not run the

bleed off hose back into the sump or trough.

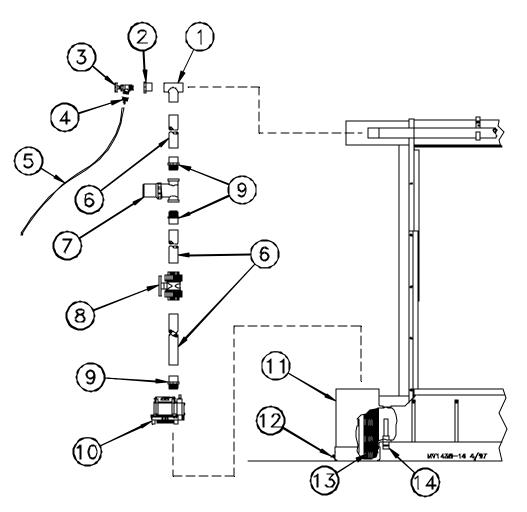


Figure 12. Distribution Pipe Installation

Item	Description
1	1-1/2" PVC Tee
2	1-1/2" x 3/4" PVC Reducer Bushing
3	3/4" Water Bleed-Off Valve
4	Hose Barb Cap
5	1/4" Black Bleed Off Hose
6	1-1/2" PVC Pipe
7	Strainer

Item	Description		
8	1-1/2" Union PVC Valve		
9	1-1/2" Adapter Valve		
10	1/3 H.P. 60 Hz. Pump		
11	Sump		
12	1-1/2" Mechanical Gripper Plug		
13	Sump Screen		
14	Overflow Drain		

Evaporative Cooling Pan and Cover Installation

1. Set the Evaporative Cooling Pads on the Pad Supports. See **Figure 13**. The top of the Pads should be against the Splash Plate and directly below the Distribution Pipe.

Make sure the Pads are properly oriented.

MUNTERS Pads: Refer to the directional arrows on the side of the pads.

GLACIER Pads: May have a blue stripe which indicates the top end of pads and the air inlet side of the pads.

If no stripe is present, refer to **Figure 14** to determine the proper pad orientation based on the direction of the pad flutes vs. direction of incoming air flow.

Begin installing pads at either end.

Make sure the first pad is against the End Panels.

Push Pads tightly together and keep as vertical as possible.

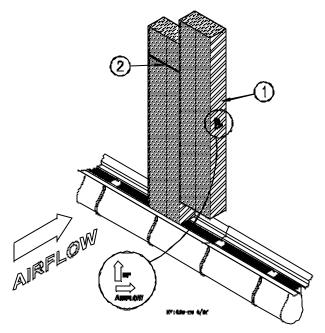


Figure 13. Pad Installation

Item	Description	
1	Munters Pad	
2	Glacier Pad	

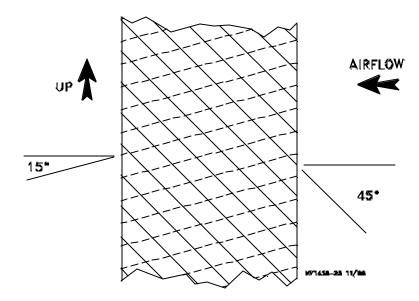
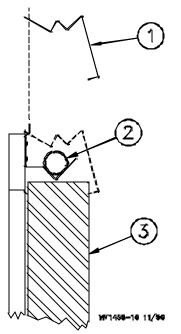


Figure 14. Pad Orientation (cut-away view of side of Pad)

- 2. Set the Covers on the Pipe Hangers, as shown in Figure 15, Step 1.
- 3. Slide the Cover Locks onto the Pipe Hangers, as shown in **Figure 15**, Step 2.
- 4. Repeat steps 1-3 until all the Evaporative Cooling Pads are installed. The Covers should butt end to end.
- 5. The Evaporative Cooling Pads may be trimmed as required using a handsaw, to fit inside the End Panels.







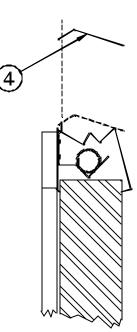


Figure 15. Cover and Cover Lock Installation

Item	Description	
1	Cover	
2	Distribution Pipe	
3	Evaporative Cooling Pad	
4	Cover Lock	

6. If the last Cover is too long, trim the Cover as shown in **Figure 16** and overlap it with the previous Cover. Use (2) 10-16 x 1/2" Screws to join the Covers together.

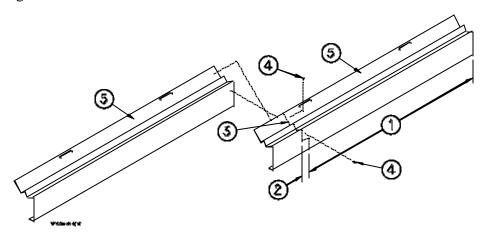


Figure 16. Cover Trimming and Assembly

Item	Description
1	Required Length of last Cover
2	2" (5 cm)
3	Cutting line
4	10-16 x 1/2" Screw
5	Cover

System Start-Up

- 1. Turn the Adjustment Knob on the Water Level Regulator clockwise to the fully closed position. Turn on the water supply.
- 2. The water level adjustment knob is on the back of the Regulator near the Chore-Time logo. To increase the water level turn the knob in the direction of the "I" or "+". To decrease the water level turn the knob in the direction of the "D" or "-". See **Figure 17**.

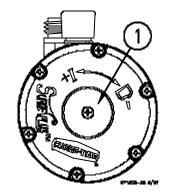


Figure 17. Water Level Regulator

Item	Description
1	Adjustment Knob (Water Level Regulator)

3. With the pump off (i.e. unplugged), Turn the Adjustment Knob on the Water Level Regulator Counter-clockwise to raise the water level to 1" (2.5 cm) below the top of the overflow pipe in the sump.

- 4. Open the valve in the pump discharge pipe.
- 5. Flush dirt and debri from the Trough by removing the Sump Drain Plug and the Sump Screen.
- 6. Flush dirt and debri out of the Distribution Pipe by running the Pump with the 2" Expansion Plug removed from the end of the Distribution Pipe.
- 7. Check that the Sump Screen is clean.
- 8. If bleed-off is to be used, start with a flow rate of .25 gpm per 100 sq ft of Evaporative Cooling Pad.

The correct amount of bleed-off depends on the amount of minerals and chemicals in the water.

The initial bleed off rate can be adjusted, but should be maintained high enough to prevent deposits on the face of the Evaporative Cooling Pad.

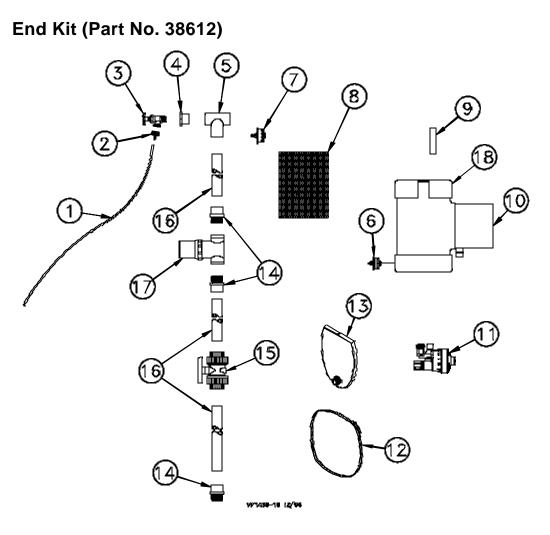
System Operation & Maintenance

1. Reduce the mineral and chemical build-up in water by;

a). bleeding water off the system. Begin by adjusting the Bleed-Off Valve to drain .25 gpm/100 sq ft of Cooling Pad while the Pump is running. Increase the bleed-off rate if minerals build up on the face of the Cooling Pad

b). draining all the water from the system once a week during operating season.

- 2. Shade the pads as much as possible to minimize algae growth.
- 3. Allow the pads to dry out completely once every 24 hours to kill algae.
- 4. Reduce the number of times the pad is wetted and dried out each day to maximize pad life.
- 5. Clean the strainer and the sump screen regularly to maintian a sufficient supply of water to the pads.
- 6. Periodically check the jets of water from the top of the Distribution Pipe. The jets should spray approximately 8" to 11" (20 to 28 cm) straight upward.
- 7. Keep the Distribution Pipe holes free of debris. Use a small wire to clean plugged holes. Clogged holes may cause dry streaks and lead to clogging of the pad.
- 8. Every three months, the entire water system should be drained and disinfected to help prevent algea growth.
- 9. If algae cannot be controlled by shading and disinfecting, a quaternary amine can be added to the water to prevent algae growth, do not use chlorine, bromine or any oxidizing boicide.
- 10. Regularly flush the Distribution Pipe by removing the 2" plug at the end of the pipe and allowing the pump to run.
- 11. Periodically, gently hose and brush deposits from the front of the pads.
- 12. Completely drain the system for winter storage. Remove the Sump Drain Plug. Remove the Pump.
- 13. Avoid contaminants such as dust, fertilizers, and harse cleaners.
- 14. The pH of the water being circulated through the system should be maintained at between 6 and 9 to prevent premature pad softening.
- 15. Check that Cooling Pads are installed correctly. See Figure 13 and Figure 14.



Part Listings

Item	Description	Part No.	Quantity
1	1/4" Black Bleed Off Hose	14454-144	1
2	Hose Barb Cap	24111	1
3	3/4" Bleed-off Valve	9255	1
4	1-1/2" x 3/4" Reducer Bushing	38672	1
5	1-1/2" PVC Tee	38618	1
6	1-1/2" Sump Drain Plug	38476	1
7	2" Distribution Pipe Plug	38621	1
8	Screen	38619	1
9	Overflow Pipe (3/4" x 4-3/4" PVC)	29107-6	1
10	Sump Tee Assembly	38471	1
11	Water Level Regulator	37147-6	1
12	S.S. Hose Clamp	38622	2
13	Trough End Assembly	38623	1
14	1-1/2" PVC Adapter	38627	3
15	1-1/2" PVC Valve w/Union	38626	1
16*	1-1/2" x 5' PVC Pipe	38677	-
17	Strainer	38731	1
18	Sump Cover (incl. with Item 10)	38473	-

*The 5' PVC Pipe is not supplied with the 6" Evaporative Cooling End Kit. It is included with the 6" Evaporative Cooling End Panels Kit (Part No. 38676).

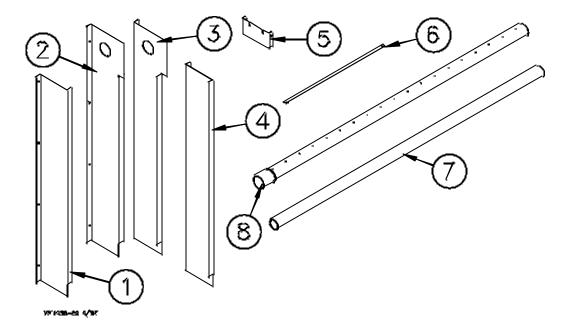
Distribution Kit (Part No. 38679-5* & 38679-20*)

Item	Description	Part No.	Qty 5'	Qty 20'
1	Distribution Pipe	38616	1	4
2	Cover Lock	38352	2	8
3	Pipe Hanger	38351	2	8
4	Trough Support	38354	3	12
5	Trough Hanger	38353	3	12
6	Splash Plate	38357	1	4
7	Pad Support	38358	2	8
8	Evaporative Pad Cover	38355	1	4
	5/16 x 1-1/2 SS Lag Screw	38617	3	12
	5/16-18 x 1/2 SS Bolt	4412-17	3	12
	5/16-18 SS Hex Nut	8543	3	12
	5/16 Nylon Flat Washer	7946	3	12
	#10 x 1-1/2 SS Screw	36703	6	24
	#10 x 1/2 SS Screw	38613	1	4

*The 38679-5 Distribution Kit includes appropriate components for a 5' evaporative cooling line. The 38679-20 Distribution Kit includes components for a 20' evaporative cooling line.

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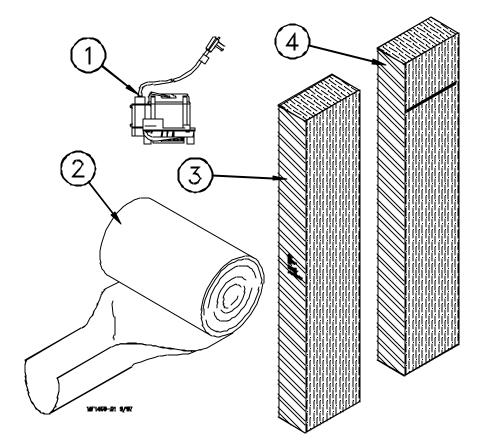
End Panels Kit (Part No. 38676)



Item	Description	Part No.	Quantity
1	Evap. End Lower Panel (L.H.)	38733-2	1
2	Evap. End Upper Panel (L.H.)	38356-2	1
3	Evap. End Upper Panel (R.H.)	38356-1	1
4	Evap. End Upper Panel (R.H.)	38356-2	1
5	Trough Support	38354	2
6	Trough Hanger	38353	2
7	1-1/2" x 5' PVC Pipe	38677	2
8	1-1/2" x 5' Distribution Pipe	38616	1
	#10 x 1/2 SS Screw	38613	18*
	#10 x 1-1/2 SS Screw	36703	17*
	5/16 x 1-1/2 SS Lag Screw	38617	5*
	5/16-18 x 1/2 SS Bolt	4412-16	5*
	5/16-18 SS Hex Nut	8543	5*
	5/16 Nylon Flat Washer	7946	5*

*Includes at least 3 extra pieces to cover any lost hardware.

Miscellaneous Components



Item	Description	Part No.
1	Pump	38480
2	Trough	
	10 foot System	38625-12
	15 foot System	38625-17
	20 foot System	38625-22
	25 foot System	38625-27
	30 foot System	38625-32
	35 foot System	38625-37
	40 foot System	38625-42
	45 foot System	38625-47
	50 foot System	38625-52
3	Cooling Pads: Munters Celdek 45°/15°	
	3 foot	38624-3
	4 foot	38624-4
	5 foot	38624-5
	6 foot	38624-6
	Cooling Pads: Munters Mi-T-Cool 45°/15°	
	3 foot	38751-3
	4 foot	38751-4
	5 foot	38751-5
	6 foot	38751-6
4*	Cooling Pads: Glacier 45°/15°	
	3 foot	38752-3
	4 foot	38752-4
	5 foot	38752-5
	6 foot	38752-6

*Blue mark or line is not present on all Glacier Cooling Pads.



Made to work. Built to last.

Revisions to this Manual

Page No. Description of Change

16,25

Removed information about installing a plug on the Pump, plug now supplied by vendor

Contact your nearby Chore-Time distributor or representative for additional parts and information.

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