

FIELD ASSEMBLY AND INSTALLATION INSTRUCTIONS

Thank you for purchasing a Coldstream product. We are dedicated, exclusively to manufacturing high quality refrigeration equipment. Efficient in design, construction, fast delivery, set-up, and superb customer service are what we are known for *since 1949*.

IMPORTANT!
CHECK FOR SHIPPING SHORTAGES OR DAMAGED GOODS.

READ THIS BEFORE YOU SIGN SHIPPING SLIP

SHORTAGES:

Check the number of packages to make sure they correspond with the number shown on the attached shipping slip. If in the event the a package is missing see “Consignee Notice” attached to your delivery as well as (pg. 2)

DAMAGED GOODS:

As you unload the packages watch for damaged items. Rough handling will show as smashed, crushed, or dented corners and broken or torn cardboard. Inspect these packages first, making a **note** on the **carrier’s bill of lading** *before* signing.

CLAIMS:

Coldstream Products Corp will **assist** our customers in collection of loss or damage claims. This willingness on our part **does not** make Coldstream Products Corp in any way responsible on liable for these collections or replacement of goods.

SHIPPING:

Every order we ship is handled with extreme care to ensure that the product is delivered fully and correctly, we carefully check then double-check. By following the same method we use on your end utilize the shipping slip provided with the product, you will see a spot that shows where our shipper has checked of the number and order of the packages, as they are loaded. Please make your own checks on this same form.

Consignee Notice

FOR YOUR PROTECTION

Prior acceptance of this shipment by the Transportation Company is acknowledgment that the articles delivered to them were in good condition and properly packaged. Here's how to handle damages and shortages:

1. Please insure piece count and delivery receipt matches. If agreement is reached please indicate piece count and sign name on delivery receipt.
2. If the count does not match please indicate on delivery receipt what was short, (be specific) and sign name.
3. If short pieces, contact Transportation Company immediately to locate pieces.
4. If short pieces do not show up in a few days, please contact Coldstream and we will advise.
5. All shortages must be reported within (10) days of receipt.
6. If shipment arrives damaged, please indicate the nature of damage on delivery receipt and sign name.
7. Please notify the transportation company that shipment was damaged.
8. Notify Coldstream Products Corp. At 1-800-394-1004 to start **intent to claim** process and request inspection to be done ASAP. (Claims after 60 days will not be processed).
9. If damaged shipment receipt is **collect or third party billing**, please contact Transportation Company immediately and request inspection within (60 days). It is the responsibility of the consignee to file claim with the Transportation Company.
10. Do not destroy packaging materials until the shipment has been inspected and claim settled.
11. If shipment is refused please contact Coldstream Products at 1-800-394-1004.

IMPORTANT

All returned shipments must have Return Authorization Number prior to shipping or shipment will be refused.

Call, write or email sales@coldstreamproducts.com for Return Authorization Number. All shipments returned for credit or exchange when error is not Coldstream's will be subject to a 25 per cent restocking charge. Prepayment of shipments must be authorized.

WARRANTY:

Coldstream Products Corp Warranty is a standard one (1) year manufacture's warranty covering all products against *defects and/or improper workmanship*.

Warranty does not protect customer from freight damage, careless/inappropriate installation, handling and care, lost or stolen items. For warranty claims call toll free 1-800-394-1004. Remember, have your serial number ready.

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INSTALLATION

PLEASE READ CAREFULLY BEFORE INSTALLING

This manual is provided with your Walk-In for your information. Although no single set of directions apply to every situation; some basic rules do apply.

** For special installations please contact the factory.*

Handling of Panels:

Your panels were inspected prior to delivery and loaded in first-rate condition, damage can occur if not properly handled, while unloading and assembling your new Walk-In. If packaging appears in good condition you may want to unpack products just prior to install to avoid damage.

- ✓ If ground is wet, panels should be stacked on a flat surface or platform to avoid contact with the ground.
- ✓ If panels are placed in outdoor storage, cover with moisture proof sheeting.
- ✓ While handling panels keep them flat to prevent denting and avoid resting them on their corner edges.
- ✓ Unpack the walls so they are organized into like groups.
- ✓ Always have a helper to ensure puny arms don't damage the panels.

Prepare your site:

Preparation is always the first step to a successful install.

- ✓ First be sure the area is clean and dry.
- ✓ If it is an inside installation adjacent to a wall allow enough space for proper ventilation. Approximate One (1)"
- ✓ Using a chalk line outline the perimeter of the structure and confirm its "square" by checking corner angles.

Tools Required:

- ✓ Camlock Wrench (Provided)
- ✓ Caulking Gun
- ✓ Caulk recommended **GE industrial silicone adhesive sealant (IS802)**
- ✓ Power Drill
- ✓ Saw (Floorless Models)

INSTALLATION

Floors:

When installing a floor it is imperative to have a level surface.

1. Check elevations in the area your installing. Shim all the low spots with a dense flat material.
2. Locate the panels marked floor.
3. Position floor panels inside chalk line. Fit tongue and groove when snug engage center Camlock.
4. Once floor is positioned and first Cam locked, turn remaining clamps and continue on to next floor panel.

Floorless:

Floor screed is used as a base for the tongue of the wall panels to connect.

1. Floor screed (Fig.1) is shipped in 12' lengths with one end mitered to 45°
2. Miter and cut floor screed to proper lengths as shown in the drawing provided in your packing slip.(Fig.2)
3. Once the screed is cut set it inside the caulk line layout from your area preparation.
4. At this time you will want to shim the screed to create a level surface. If excessive shimming is required because of poor floor conditions a grout filling should be applied.
5. To complete the install of screed, cover the seams at the corners with the provided corner kit.

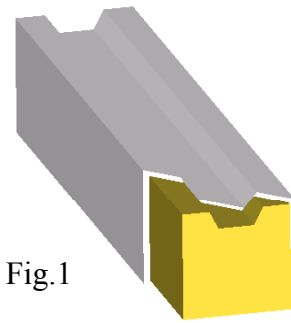


Fig.1

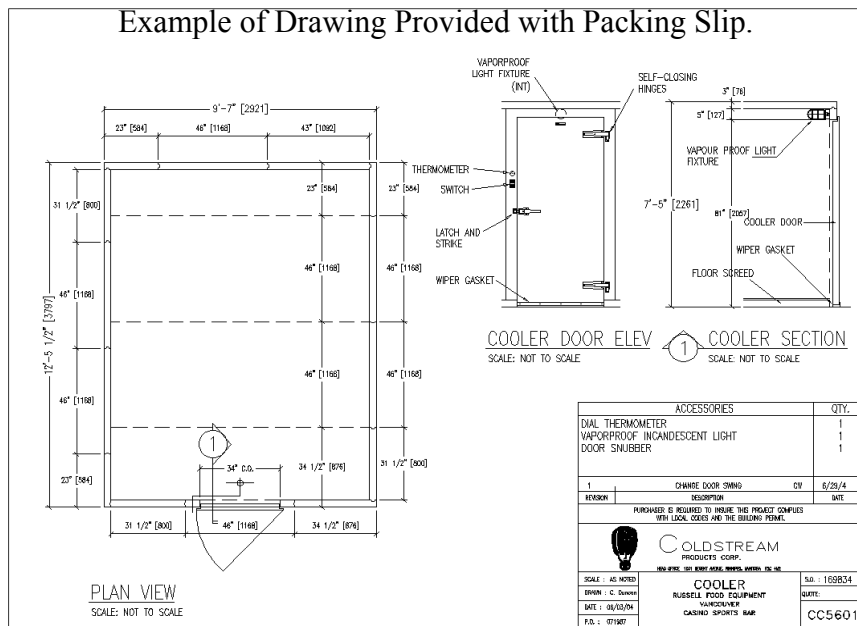


Fig.2

INSTALLATION

Walls & Doors:

1. After the Floor or Floor Screed has been installed you may begin to layout walls.
2. Working in a clockwise direction you should be able to erect one wall without clamping. (Be sure that the panels are placed exactly how provided drawing Fig.2 describes.)
3. Now that you have one wall upright begin the next by following the same direction. (Fig.3)
4. Install door section as if it were a wall (*Coldstream Doors are generally built to standard wall panel sizes.*) the door must be square and anchored down Fig.____.

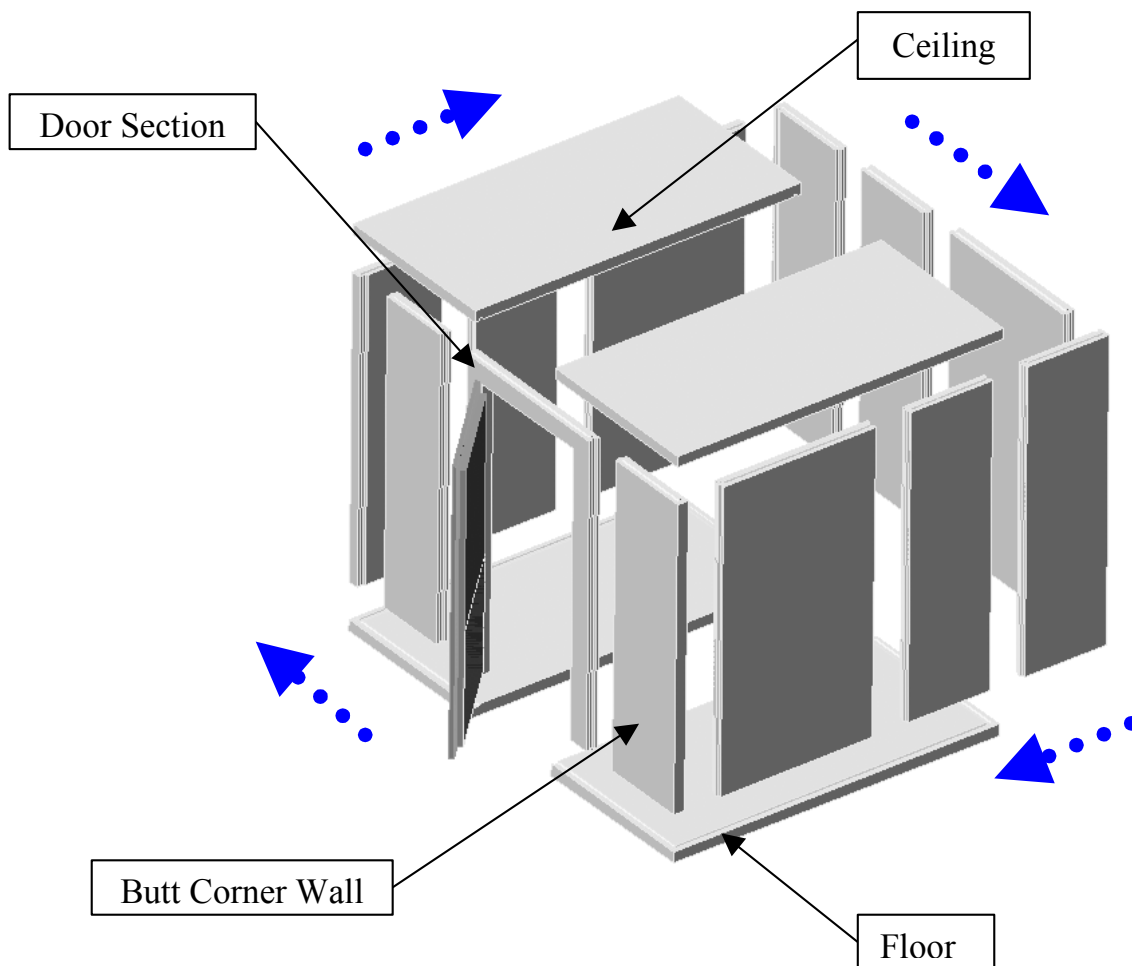


Fig.3

NOTE: when installing doors, do not remove the door from the doorjamb.

INSTALLATION

Ceilings:

It's good to be on top.

1. Now that the walls and door(s) are installed we can place the ceiling on the box.
2. Be sure your ceiling end panels are at the correct end. This can be deciphered from the label on the panels itself.

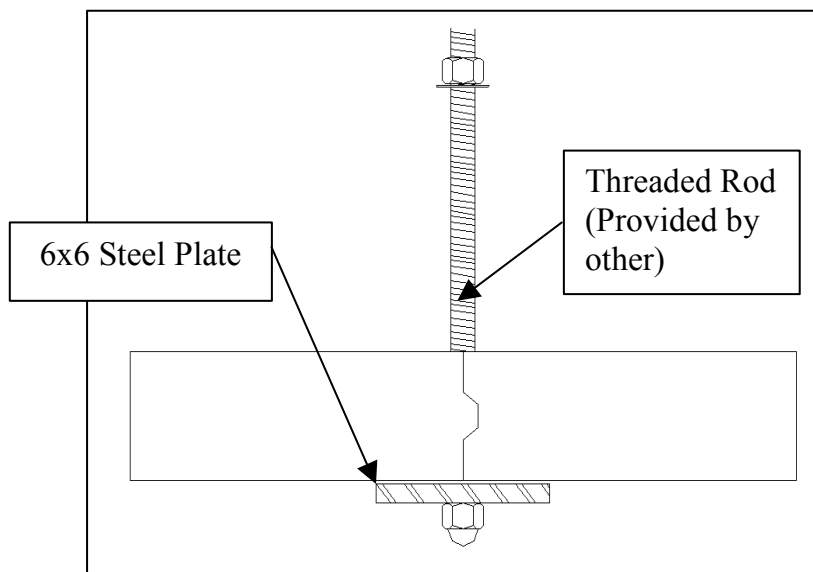


Fig.4

3. When a ceiling spans longer than 14'-0" the suspension kit (Fig.4) is installed between panels. These locations will be outlined on your drawing.
4. You can now adjust the entire box slightly by shifting the panels around a bit on the Floor/Screed.

INSTALLATION

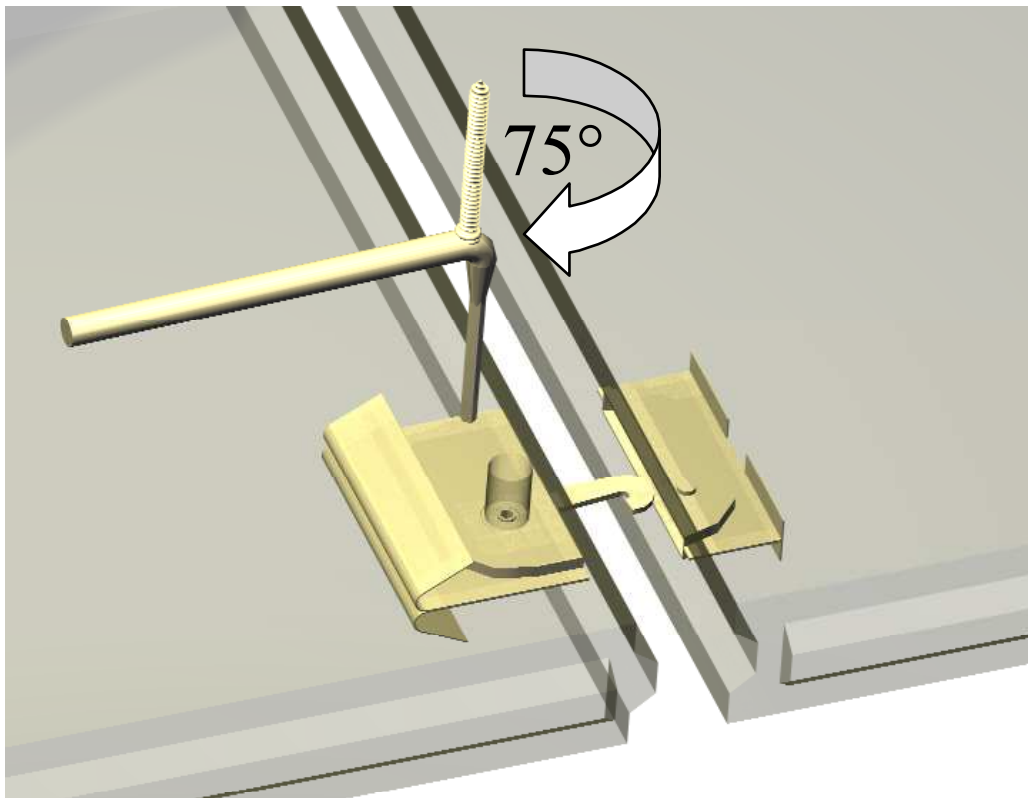
Cam Clamps:

The Cam Clamp is designed to be use once or twice in it's lifetime. Therefore repetitive locking and unlocking will strip the hex and pliers will be needed to adjust the clamps after. Never attempt to pull the panels together with the clamps. Panels should be snug when the locking takes place. If panels cannot be positioned by hand, a carpenters screw clamp is required.

Locking Down the Box:

1. When all the panels are properly positioned and corners square begin turning locking device. Fig.5
2. It's good to start clamping at one end of the box and continue to work in the same direction.
3. Once the panels are locked move on to the ceilings.

*Remember not to overturn the Cams they may strip!!!



*Be sure to **NOT** overturn cams!!*

Fig.5

INSTALLATION

Moisture Seal:

We've come this far lets' seal the deal.

It is extremely important to seal all the exterior joints as well as partition walls for Combination Boxes. To properly seal the box against moisture we recommend using a **GE industrial silicone adhesive sealant (IS802)** this product is available through Coldstream as an option.

1. Apply moisture seal. (Fig.6)

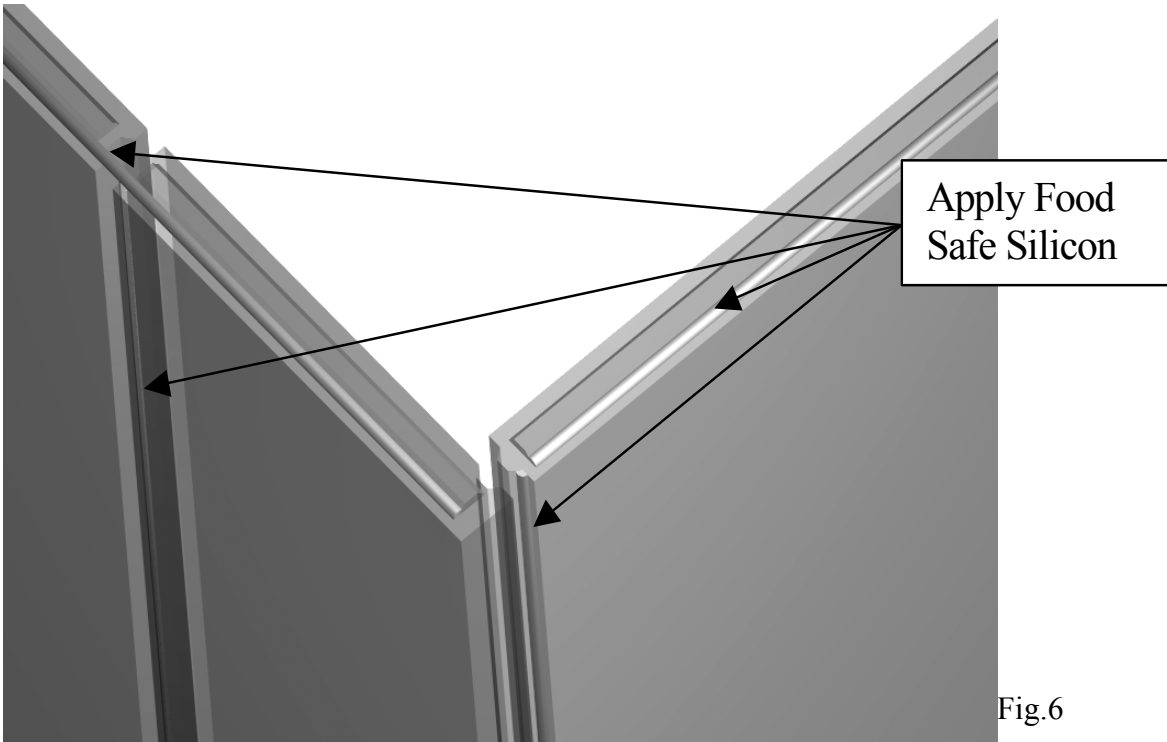


Fig.6

INSTALLATION

Electrical:

It is the owner's responsibility to have professional licensed electricians to properly connect the unit. These connections must follow the local building codes & building's electrical service for proper wire sizing and fusing. This information is located on the serial tag positioned inside the door.(Fig.7)

W/O# 883091			
COLDSTREAM PRODUCTS CORP. <small>WINNIPEG, MANITOBA R2C 4M2 PHONE: (204) 669-1201 www.coldstreamproducts.com</small>			
MODEL	<input type="text" value="WIDC"/>	SERIAL NO.	<input type="text" value="05C1002"/>
VOLTS	<input type="text" value="115"/>	HZ	<input type="text" value="60"/>
		PH	<input type="text" value="1"/>
TOTAL AMPS	<input type="text" value="1.50"/>	REFRIGERANT	<input type="text" value="0.0"/>
		OZ	<input type="text" value="0.0"/>
DESIGN PRESSURE: HIGH	<input type="text"/>	PSI	LOW <input type="text"/> PSI

MAX FUSE SIZE	<input type="text" value="15"/>	AMPS	TYPE	<input type="text" value="STD"/>
COMPRESSOR	<input type="text"/>	RLA	<input type="text"/>	LRA
	LOAD	VOLTS	AMPS	
LIGHT		115	1.5	

Fig.7

Each Coldstream Top-Mounted, Self-Contained refrigeration system requires two (2) service connections.

- ✓ Condensing unit requires a “service disconnect switch” prior to junction box on top of the walk-in.
- ✓ Interior light above the door, this powers the switch-light and door perimeter heaters (freezers only).

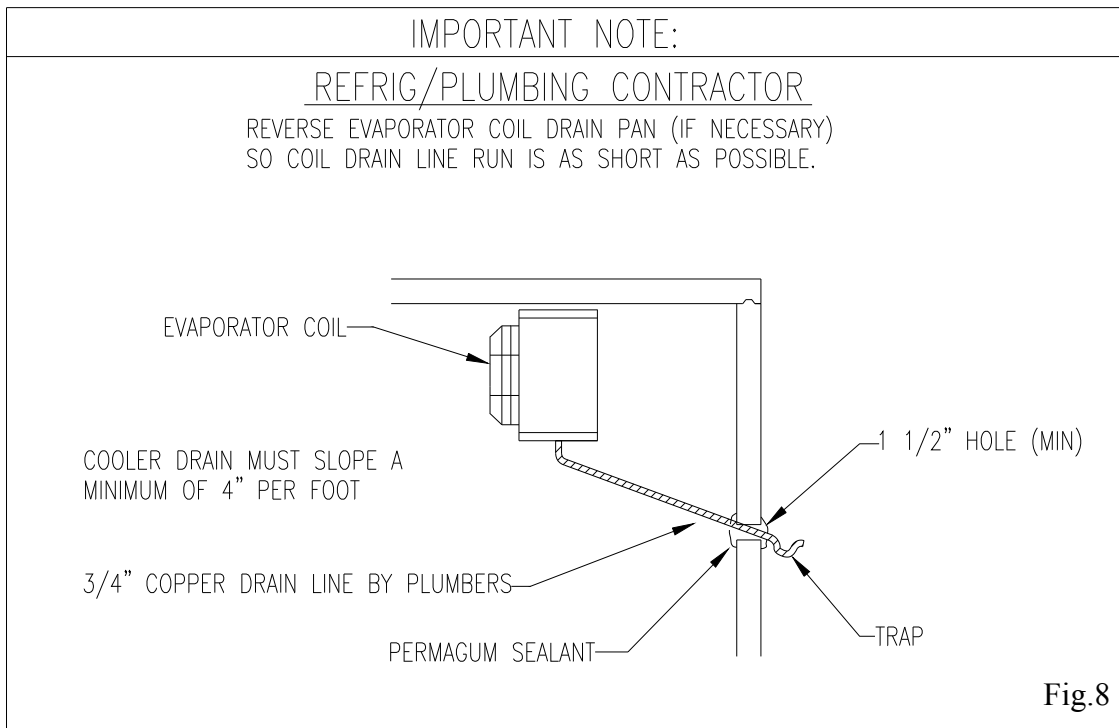
*See electrical specs in Appendix for your model.

INSTALLATION

Plumbing:

Coldstream “Top Drop Model” refrigeration units do not require drain connection. These units feature a coil that is raised above ceiling space to allow condensate to flow into pan near compressor and will be boiled off by hot refrigerant line.

Coldstream standard evaporator coils require a condensate drain line in the cooler and freezer. The drain line should be installed by a qualified refrigeration or plumbing contractor, and run to an exterior floor drain. A “P” trap (Fig.8) is required but not located inside the freezer. Freezer drain lines must be wrapped with heat tape to prevent freezing.



*Remember to review shelving layout to ensure drain will not cause conflicts.

INSTALLATION

Top Drop: (when equipped)

Top drop Units (Fig.9) are ceiling mounted all-in-one cooling units. They are easily installed by following these steps.

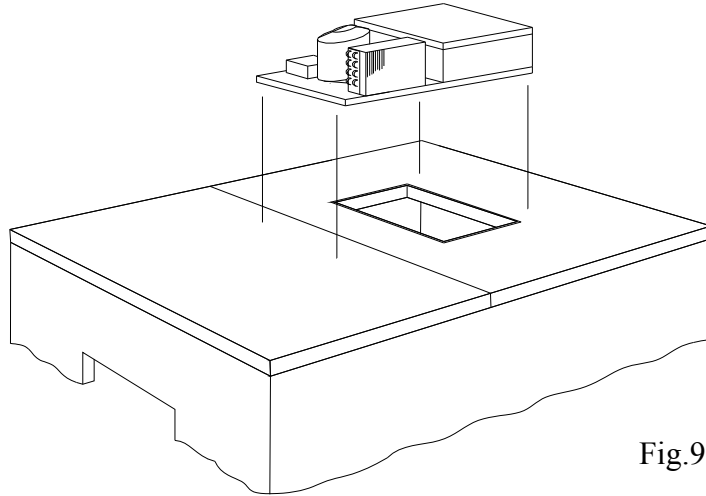


Fig.9

1. When positioning the unit on the precut opening be sure the Condensing Unit is facing away from the near wall.(Fig.10)

This will allow the airflow to reach the furthest wall.

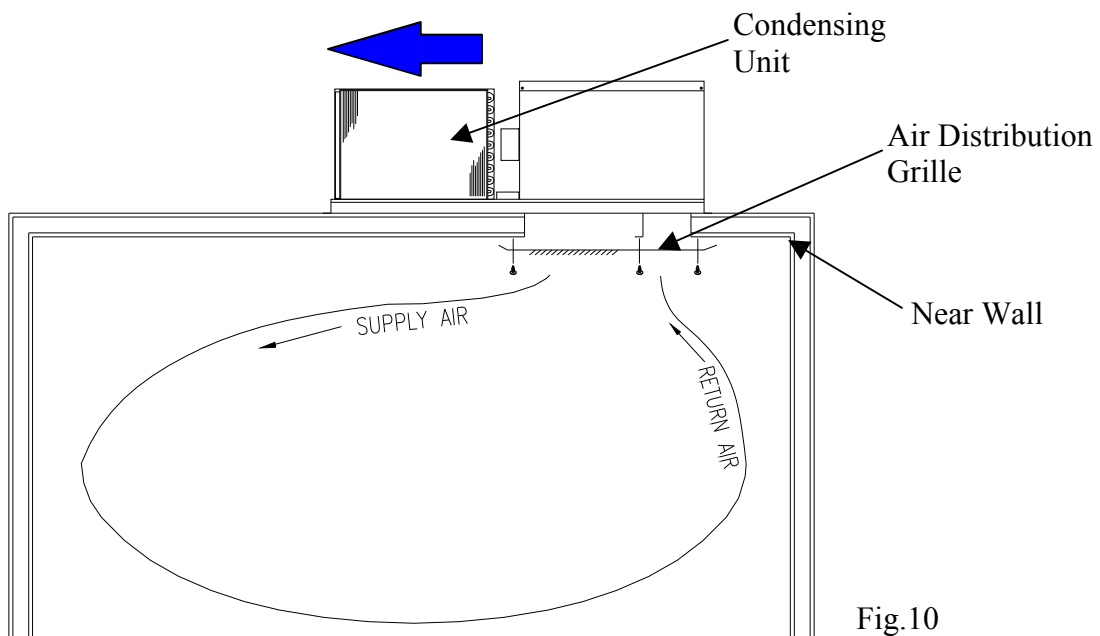


Fig.10

This will allow the airflow to reach the furthest wall.

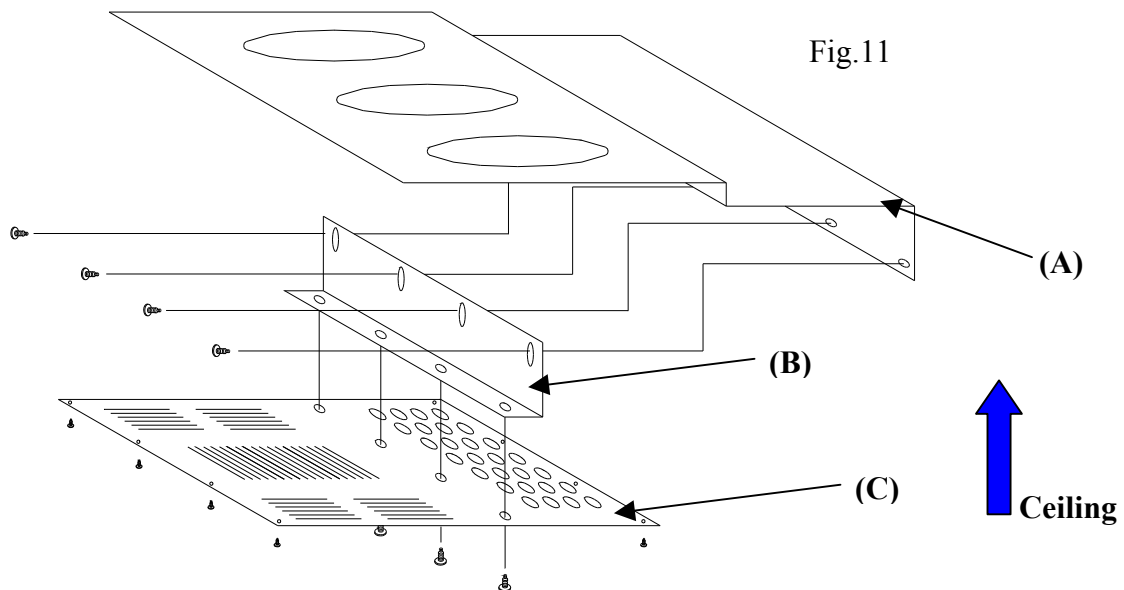
INSTALLATION

Top Drop: (cont'd)

2. Attaching the air distribution grill and divider.(Fig.11)

- ✓ Connect **(A)** Fan Plenum – *Factory Installed* to **(B)** Air Distribution Divider using four self-tapping screws.

Only tighten the screws when flange is flush with the ceiling



- ✓ Now attach **(C)** *White Side down* louvers on the Air Supply side to **(B)** again using four self-tapping screws.
- ✓ Once the **(C)** Air Distribution Grille is connected to the flange you can, with ten self-tapping screws, fasten it to the ceiling centered on cutout so there is approximately 1" overlap around the entire **(C)** Air Distribution Grille.

INSTALLATION

Top Drop: (cont'd)

3. Enclosure Assembly (Fig.12)

The purpose of the enclosure is aesthetic only. It does not affect the performance of the machine in *NOT* installed.

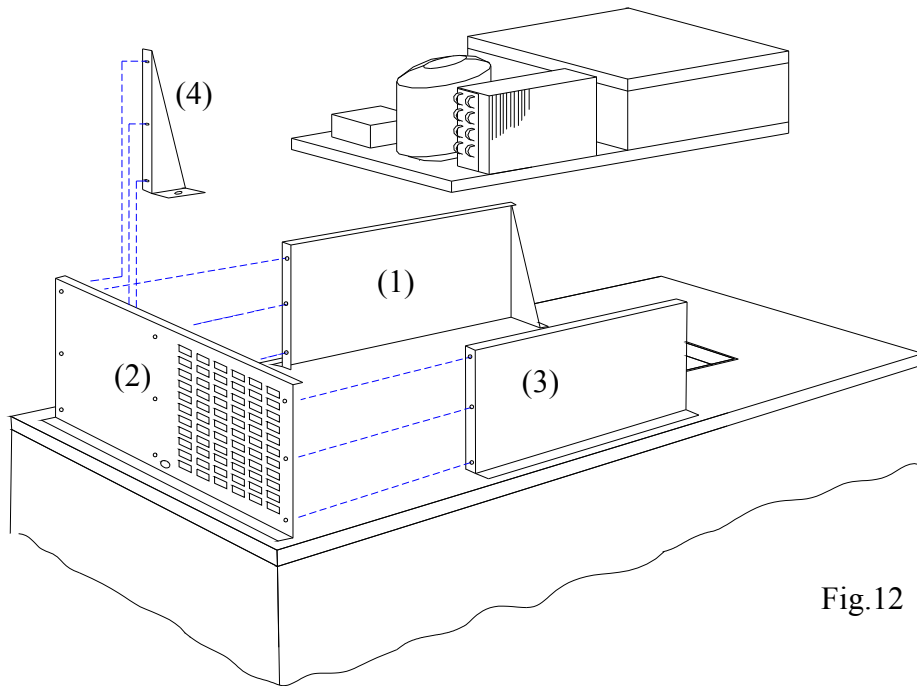


Fig.12

- ✓ Installing the Enclosure is simpler if pieces (1),(2),(3) & (4) are assembled ahead of time.

- ✓ Although the enclosure is three sided you may only want to install sides that are visible to the customer. If so you can substitute reinforcement gusset (4) instead of (1) and / or (3).

INSTALLATION

Top Drop: (cont'd)

4. Condenser Air Deflector

In the case of a combination Box that will be running one or more Top Drops in close proximity Coldstream can supply an Air Deflector. (Fig.13)

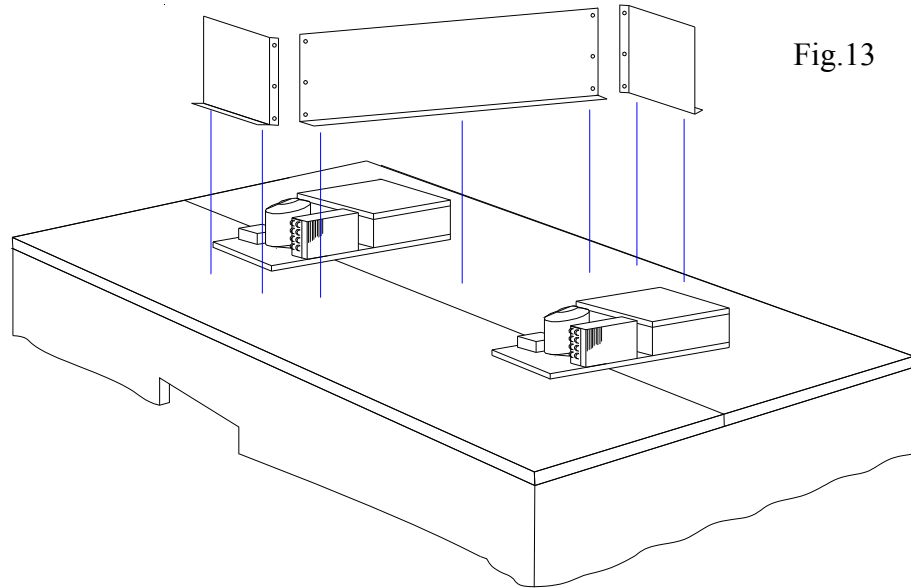


Fig.13

- ✓ Like the enclosure the deflector installs easier if assembled before hand.
- ✓ All three pieces are mandatory
- ✓ Because it keeps the warm air from one condenser entering the other NOT installing it will lead to a compromise in performance.

OPERATION AND MAINTENANCE

The Canadian Standards Association has approved your Coldstream product. The model and serial plate is mounted inside the room on back of the door. Refer to this before calling and for electrical information.

Start Up:

After the mechanical has been installed let entire system settle for approximately 24 hours this will allow fluids to settle ensuring a smooth operation.

- ✓ Power up the cooling system and let cool until proper operating temperatures are achieved.

This may take some time so make sure your food products can be stored temporarily.

- ✓ Once box is properly cooled switch on the power supply to the door heater cables. ***Not doing this can cause heater cables to burn out.***

Loading:

Loading your unit will result in a temporary rise in temperature.

Coldstream walk-in coolers/freezers refrigeration systems are designed to hold chilled products at 3°C to 4°C and hold already frozen products at -18°C or -23°C.

- ✓ It is important that all food products in the Coldstream unit be properly covered and contained to reduce product shrinkage and drying.
- ✓ Acidic or corrosive products (salad dressing, vinegars, etc.) must be sealed from direct air contact as the acidic vapors will quickly corrode the evaporator coils fins and bends.

Operation:

Coldstream controls and valves on top drop systems are factory preset. Adjustments are not necessary under normal conditions. However, in the event adjustments are needed, only a **qualified refrigeration technician** should make them. Field installed Coldstream condensing units & coils require a certified refrigeration technician to set controls on site for proper operation.

Operating Temperatures

Coolers: set to run at 3.3°C (38°F)

Freezers: set to run at -18°C (-10°F)

OPERATION AND MAINTENANCE

Operation: cont'd

Cooling cycles are controlled by the following sequence of events.

1. Temperature control mounted in the return air monitors air temperature in the box.
2. The control will open and close the solenoid valve in the refrigerant line leading into the compressor.
3. When the air is colder the valve will close this will cause pressure to drop in the lines and the compressor will shut down.
4. As the air temperature rises in the unit the valve will open allowing the fluid to return, pressure rises and compressor turns back on.
5. This system not only monitors your temperature but also acts a safety device halting operation if pressures rises or falls to preset values.

Defrost Cycle

Defrost cycles are necessary to prevent excessive frost build up on freezer evaporator coils. Freezers come with coil defrost timers mounted on the top panel. Upon electrical activation of the unit set the time of day on the defrost timer. If the proper timer of day is not entered, the freezer will still automatically defrost four (4) times per 24-hour period. However, the defrost cycle may engage at an inconvenient time. See inside the defrost timer panel for instructions. Contact our Sales Office during warrant period or a certified refrigeration technician. Defrost timers for coolers are available as an option.

TROUBLESHOOTING

Sometimes simple maintenance done by yourself or your staff can avoid costly service calls. Please review this troubleshooting section to see if any of the problems you are having are easy fixes.

<i>PROBLEM</i>	<i>CAUSE / REMEDY</i>
Prolonged excessive ice formation on evaporator coil.	<ul style="list-style-type: none"> ✓ High ambient humidity (failed A/C in building) ✓ Loading with high temp. or high moisture items(ie: Baked goods) ✓ Opening door excessively ✓ Door left open for prolonged periods
Water dripping from coils.	<ul style="list-style-type: none"> ✓ Coil drain kinked or frozen ✓ Evaporator pan frozen ✓ Drain line heater defective ✓ Coil drain plugged ✓ Coil drain outlet connection cracked or broken ✓ Loose drain connection
Frost or ice formation on product.	<ul style="list-style-type: none"> ✓ Excessively high humidity ✓ Coil fan delay defective, not shutting down on defrost ✓ Mixing frozen and unfrozen product together ✓ Door not sealing
Compressor is not running.	<ul style="list-style-type: none"> ✓ Electrical service off / breaker off ✓ High ambient temp. causing high pressure control to cut off ✓ Unit on defrost
Temperature too high.	<ul style="list-style-type: none"> ✓ Electrical service off / breaker off ✓ Door frame heaters not functioning ✓ Unit loaded with high temp. product ✓ Water supply to water cooled unit is off. ✓ Air cooled unit is plugged, dirty, or blocked
Condensation around exterior of door frame.	<ul style="list-style-type: none"> ✓ High ambient humidity ✓ Door frame heaters not functional ✓ Door gaskets not sealing tight to door frame ✓ Door not closing properly
Coil fan not operating.	<ul style="list-style-type: none"> ✓ Evaporator coil on defrost ✓ Electrical service, breaker, switch off ✓ Fan defective(only when one is running without the other
Compressor/condensing unit noisy.	<ul style="list-style-type: none"> ✓ Debris in or on condenser fan ✓ Ambient temp. too high (near 90°F)