



# ATLAS METAL

1135 N.W. 159th DRIVE, MIAMI, FLORIDA 33169

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TOLL FREE 800.762.7565

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## FROST TOP - WF SERIES

### Service and Installation Manual

Please read this manual completely before attempting to install or operate this equipment!  
Notify carrier of damage! Inspect all components immediately. See page 1.



DROP-IN FROST TOP  
REFRIGERATED, SELF-CONTAINED  
OR REMOTE



Effective Date: 03/2024  
IMPORTANT INFORMATION  
READ BEFORE USE

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## RECEIVING AND INSPECTING THE EQUIPMENT

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1. VISUALLY INSPECT THE SHIPPING CRATE. DAMAGE SHOULD BE NOTED AND REPORTED TO THE DELIVERING CARRIER.
2. IF DAMAGED, OPEN AND INSPECT CONTENTS WITH CARRIER.
3. IF CRATE IS NOT DAMAGED AND THERE IS CONCEALED DAMAGE TO THE EQUIPMENT, NOTIFY THE CARRIER. NOTIFICATION MUST BE MADE VERBALLY AND IN WRITING.
4. REQUEST AN INSPECTION BY THE SHIPPING COMPANY FOR THE DAMAGED EQUIPMENT WITHIN 10 DAYS FROM RECEIPT OF THE EQUIPMENT
5. FREIGHT CARRIERS CAN SUPPLY THE NECESSARY FORMS ON REQUEST.
6. SAVE ALL CRATING MATERIALS UNTIL INSPECTION HAS BEEN MADE OR WAIVED.

## SERIAL NUMBER LOCATION

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THE SERIAL AND MODEL# CAN BE FOUND ON THE CONDENSING UNIT ENCLOSURE - SEE OPERATORS SIDE CONTROL PANEL WHEN CALLING ATLAS FOR PARTS AND SERVICE. ALWAYS HAVE THIS INFORMATION AVAILABLE.

SERIAL #: \_\_\_\_\_

MODEL #: \_\_\_\_\_

INSTALLATION DATE: \_\_\_\_\_



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Project: \_\_\_\_\_  
Item No.: \_\_\_\_\_  
Quantity: \_\_\_\_\_

## DROP-IN SERVING EQUIPMENT



### FROST TOP

Refrigerated,  
Self-Contained

- WF-2
- WF-3
- WF-4
- WF-5
- WF-6

### SPECIFICATIONS

**TOP:** Constructed of 14 gauge, type 304 stainless steel, die stamped with a raised perimeter bead. There shall be a solid vinyl gasket under the beaded edge to form a seal to the counter top, thus preventing seepage or marring of the counter top.

**FROST TOP:** Constructed of 14 gauge, type 304 stainless steel, one piece construction, all welded, ground and polished to a uniform finish. The top is formed to stand 1" above the counter top and is provided with a 1/2" full perimeter gutter to collect condensation; a 1" I.P.S. drain is provided. The frost top has copper tubing firmly soldered to the exterior bottom.

**INSULATION:** The pan is fully insulated with high density fiberglass and polystyrene, 1-1/2" thick, and enclosed with an 18 gauge galvanized steel outer case.

**REFRIGERATION SYSTEM:** The compressor housing shall be fabricated from 14 gauge galvanized steel and bolted to the base of the unit. A fully self-contained condensing unit is provided with a hermetically sealed compressor. The system is fully charged with CFC free refrigerant and ready to operate.

**NOTE:** Proper ventilation must be provided in counter.

**ELECTRICAL:** The unit will be wired for 15 amps., 120 volt, single phase operation with an on/off switch and pilot light. A 6' long 3-wire cord and plug (NEMA 5-15P) will be provided.

*Specifications subject to change without notice.*

### STANDARD FEATURES

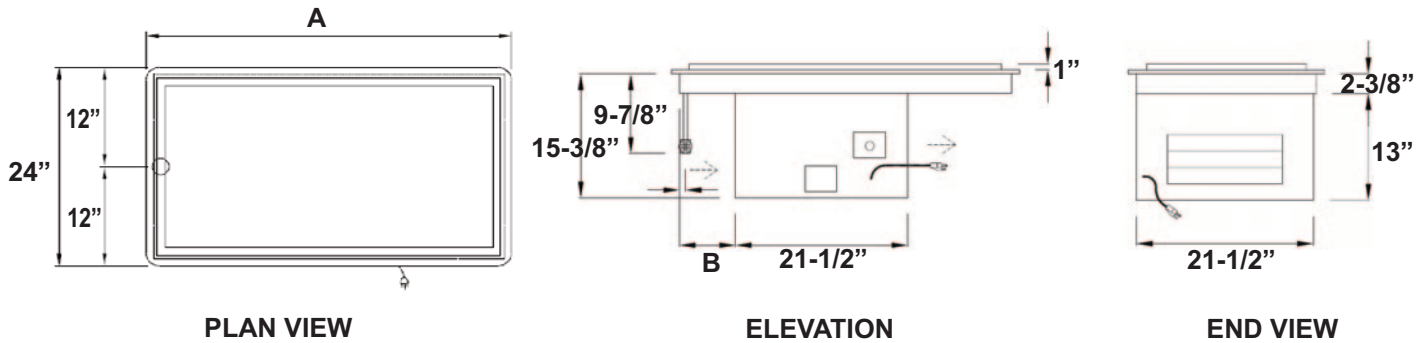
- "Quick" frost top, stands 1" above counter for attractive display - ideal for pre-plated cold food
- Fully insulated for maximum efficiency and energy savings
- Factory applied gasket - makes installation a snap and seals units to the counter top, thus eliminating seepage
- 1-Year Parts & Labor Warranty
- NSF Certified and UL Listed

### ACCESSORIES

- **5YW** - 5-Year Compressor Warranty
- **WFFT** - Flush recessed top for frost top units
- **RS** - Remote on/off switch for counter mounting
- **RDVE** - Rear Drain Valve Extension
- \* **220 Volt - 50 Cycle** Compressor

\*Please see Operation & Installation Manual for ALL operation and maintenance details.

\* Units with these accessories are not currently UL listed.



MODEL	"A"	"B"	FROST TOP SIZE	ELECTRICAL CHARACTERISTICS	CUT-OUT REQUIRED	SHIP WT. (LBS.)
WF-2	29-3/4" (75.5cm)	6" (15.2cm)	19-1/2" X 25-1/4" (49.5 X 64.1cm)	3.9amps. - 120V - 1/5HP	22-1/4" X 28" (56.5 X 71.1cm)	171 (77.6kg)
WF-3	43-1/2" (110.4cm)	7" (17.7cm)	19-1/2" X 39" (49.5 X 99cm)	6.8amps. - 120V - 1/4HP	22-1/4" X 41-3/4" (56.5 X 106cm)	207 (93.9kg)
WF-4	57-1/4" (145.4cm)	7" (17.7cm)	19-1/2" X 52-3/4" (49.5 X 133.9cm)	9.8amps. - 120V - 1/3HP	22-1/4" X 55-1/2" (56.5 X 140.9cm)	236 (107kg)
WF-5	71" (180.3cm)	7" (17.7cm)	19-1/2" X 66-1/2" (49.5 X 168.9cm)	10.7amps. - 120V - 1/2HP	22-1/4" X 69-1/4" (56.5 X 175.8cm)	263 (119.3kg)
WF-6	84-3/4" (215.2cm)	7" (17.7cm)	19-1/2" X 80-1/4" (49.5 X 203.8cm)	10.7amps. - 120V - 1/2HP	22-1/4" X 83" (56.5 X 210.8cm)	328 (148.8kg)

REFRIGERATION CHART						
MODEL	HP	REF.	OZ.	LOW PSIG.	HIGH PSIG.	BTU M10 90A
WF-2	1/5	134A	6	8	150	505
WF-3	1/4	134A	8	8	155	1070
WF-4	1/3	134A	10	8	155	1285
WF-5	1/2	134A	12	8	155	1285
WF-6	1/2	134A	16	8	160	2140

MODEL	WT. LESS COMP. (LBS.)
WFX-2	130 (59kg)
WFX-3	160 (72.6kg)
WFX-4	190 (86.2kg)
WFX-5	217 (98.4kg)
WFX-6	252 (114.3kg)

**WFX - REFRIGERATED FROST TOP WITHOUT COMPRESSOR**

Units include Refrigerated Frost Top, Cap Tube & Drier (for hook up in field by others)

**COMPRESSORS FOR REMOTE INSTALLATIONS**

- 2029** - 1/5 HP for WFX-2
- 2029-17JP** - 1/4 HP for WFX-3
- 2029-27JL** - 1/3 HP for WFX-4
- 1800-4214** - 1/2 HP for WFX-5 & 6

# FROST TOP

## WF SERIES

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### INSTALLATION

Provide the correct counter cut-out opening (see chart below) and drop in. The vinyl gasket assures complete seating. A non-toxic silicone seal may be used between the gasket and counter top (not required).

Note: Units are supplied with a nipple and gate valve to be connected for draining.

MODEL NUMBER	CUT-OUT SIZE
WF-2	22 1/4 X 28
WF-3	22 1/4 X 41 3/4
WF-4	22 1/4 X 55 1/2
WF-5	22 1/4 X 69 1/4
WF-6	22 1/4 X 83

The unit should be level for draining purposes. When installing unit in a counter, it is recommended that the operator side of the counter be completely open for air circulation. When this is not possible, such as in an island counter, it is recommended that two grill openings are provided approximately 18" x 18" of free air for intake and exhaust at the opposite ends of the counter.

The unit is supplied with a power cord and NEMA plug. Refer to the data plate on the compressor housing for the amperage and voltage information. Use a licensed electrician when installing power source.

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### OPERATION

This unit should be turned on one hour before serving and turned off after completing the serving period. There is an on/off switch located on the compressor housing. It may take a while for the frost to cover the entire surface (depending on the humidity). The compressor runs continuously to maintain a layer of frost.

**The unit should not operate 24/7.**

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### MAINTENANCE

**NEVER CLEAN PANS WITH A CHLORIDE BASED PRODUCT. CHLORIDES OR IMPROPER CLEANING COULD SCAR, MARK AND/OR CORRODE SURFACE. DO NOT USE STEEL WOOL OR ABRASIVE PRODUCTS. TO CLEAN USE SOAPY WARM WATER, RINSE THOROUGHLY TO REMOVE ALL RESIDUES. FAILURE TO MEET THESE CONDITIONS WILL VOID WARRANTY. CLEAN CONDENSER COIL REGULARLY.**



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**IMPORTANT INFORMATION PLEASE READ  
WF-SERIES  
FROST TOP OPERATING INSTRUCTIONS**

The unit requires proper ventilation for the refrigeration system, which must be provided for during installation. The compressor unit required regular cleaning to keep the unit free of dust and dirt building up on the condenser coils.

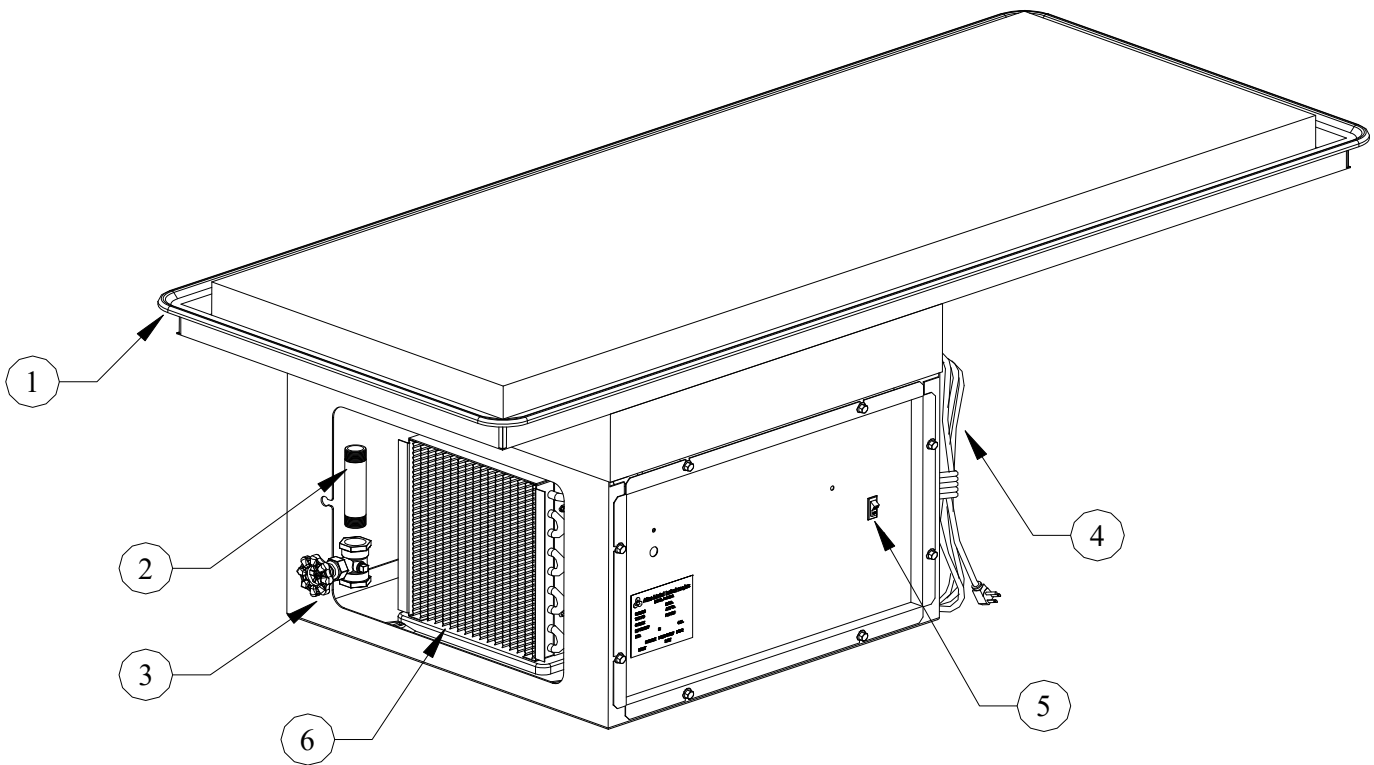
This unit must be placed in an environment with minimal air flow over the stainless steel surface plate. Air currents directly over the frost plate created by ceiling fans, air conditioning vents, doorways and the alike, will prevent the unit from frosting properly. Check first for air currents in the room if frost patterns are not optimal.

This WF unit has been inspected at room temperature for frost plate flatness. During the refrigeration/frosting process, the stainless surface can contract and bow. If there is a layer of frost across the surface area of the plate, the WF unit is operating to specification and does not require service.

The factory must be contacted to receive authorization to perform in-field service on the WF unit. This must be done prior to the work being done. If service is requested, the factory will ask you to confirm that the checks for air circulation and frost patterns on the stainless plate have been conducted. If the service agency finds the unit to be deficient, the factory will assume responsibility for the cost of the repair. If the factory determines that the WF unit is within the established dimensional and performance standards, the service agency will be instructed to bill you directly.

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## PARTS LIST FROST TOP WF SERIES



**WF-4 SHOWN**

ITEM NUMBER	PART NUMBER	DESCRIPTION
1	7002-0+Model #	Vinyl Bead Gasket (Not Shown)
2	1012-02902	3/4" x 4 PVC Nipple
3	1012-0906	Ball Valve
4	1003-0	Power Cord with Plug.
5	1069-1	14 Amps. Toggle Switch
6	2029-0	1/5 H.P. Compressor (WF-2).
	2029-17JP	1/4 H.P. Compressor (WF-3).
	2029-27JL	1/3 H.P. Compressor (WF-4 & 5).
	2001-4	1/2 H.P. Compressor (WF-6).
7	2027-0	0.031 Cap Tube for 1/5 Compressor Only. (Not Shown)
8	2026-0	0.042 Cap Tube for 1/4, 1/3 & 1/2 Compressor. (Not Shown)
9	2025-0	Drier





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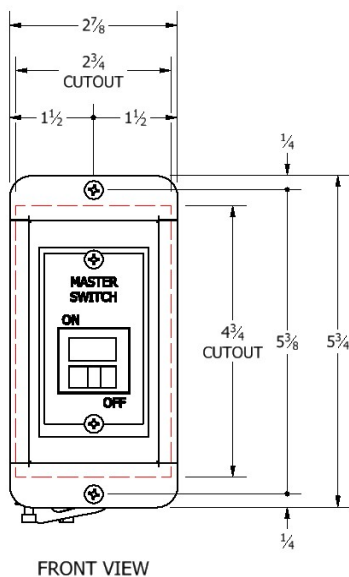
Subsidiary of Mercury Aircraft, Inc.

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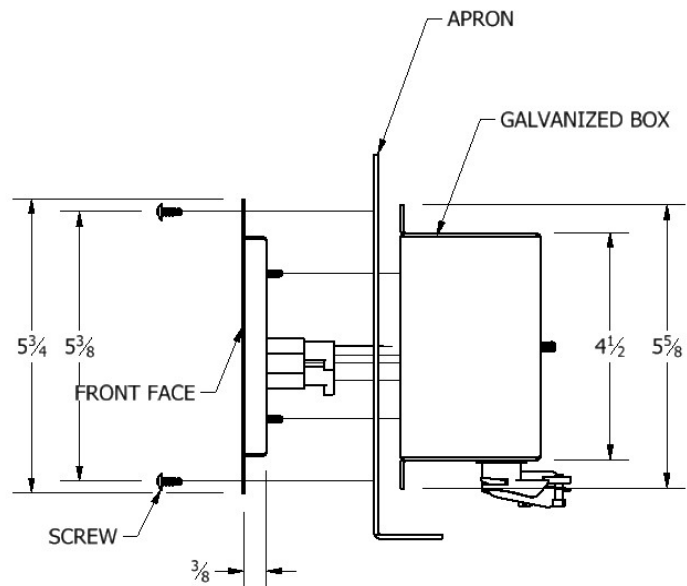
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## COLD UNITS-REMOTE INSTALLATION

### Cut-Out dimensions



FRONT VIEW

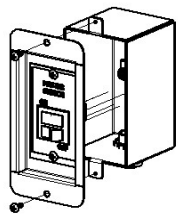


SIDE VIEW

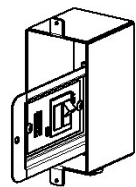
## INSTALLATION OF THE REMOTE CONTROL COLD UNITS

Provide the correct Cut-Out opening for the remote control panel (picture above).  
Remove control box from the bottom of the unit.

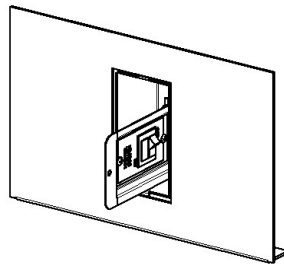
- 1) Remove screws from front of control panel.
- 2) Placed control panel inside of the box.
- 3) Mount the galvanized box behind the apron.
- 4) Mount S/S front plate to the Cut-Out in apron.
- 5) Add the screws to the front panel.



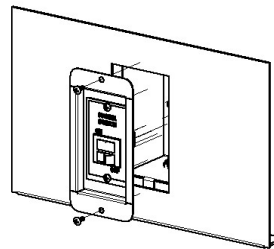
STEP-1 VIEW



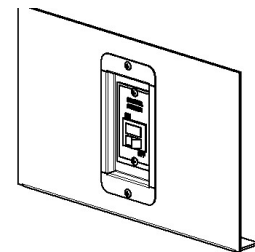
STEP-2 VIEW



STEP-3 VIEW



STEP-4 VIEW



STEP-5 VIEW

The unit is ready to be connected to the electrical receptacle. Refer to the data plate on the control panel for the amperage and voltage information. Use a licensed electrician when installing power source.





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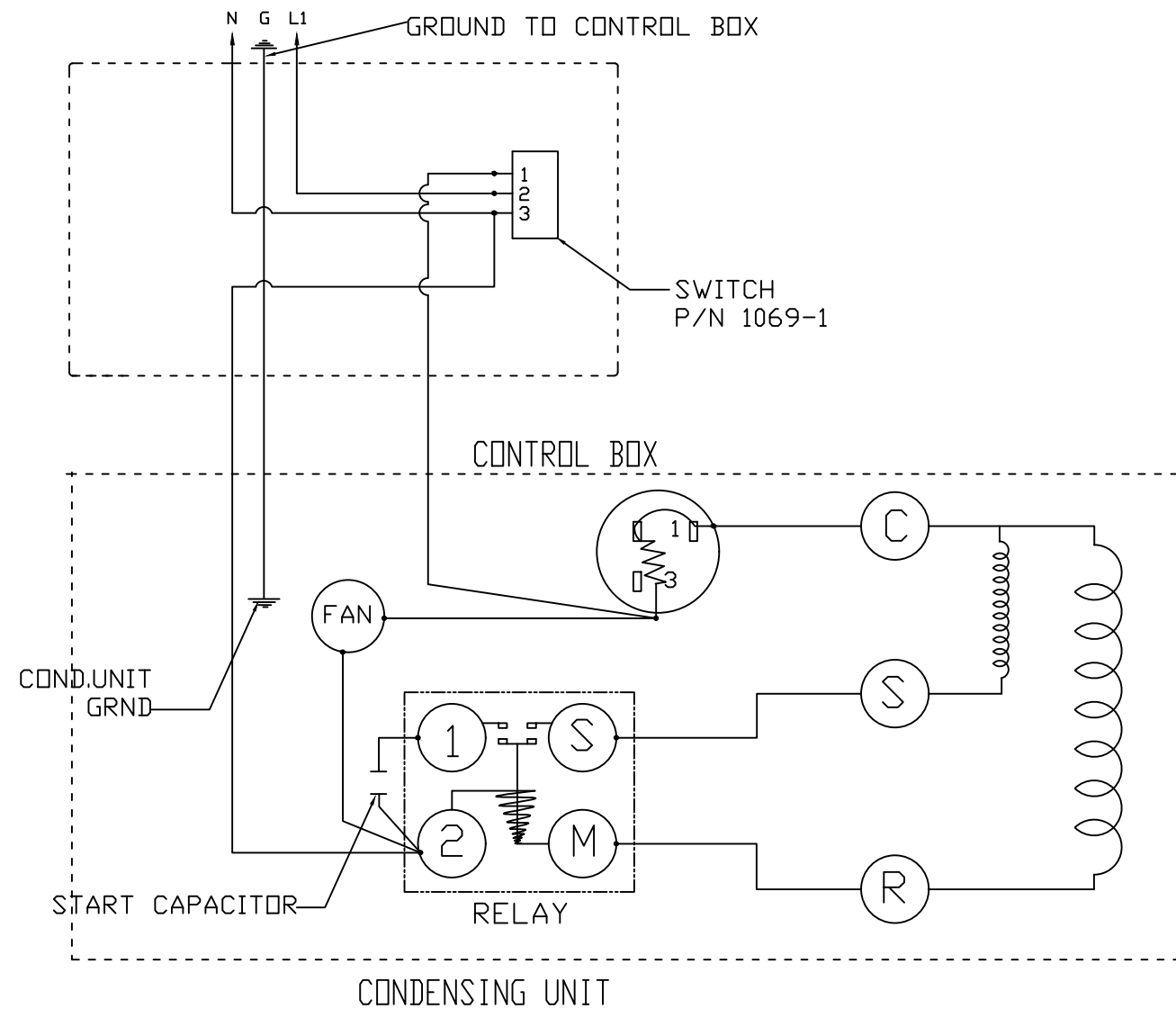
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## Refrigerated Drop-In Trouble Shooting Guide

<b>Symptom</b>	<b>Probable Cause</b>
Unit will not run	Unit not plugged in.
	No power at receptacle.
	Thermostat and or switch not in the on position.
	Unit may be in a defrost cycle (if supplied) wait approximately 20 min. Call factory for service at 1-800-762-7565
Condenser runs but short cycles	Condenser coil dirty
	Inadequate ventilation. Call factory for service at 1-800-762-7565
	Condenser coil dirty.
Condenser runs constantly.	Inadequate ventilation.
	Unit installed in a hot location Call factory for service at 1-800-762-7565
	<b>NOTE: WF series runs constantly.</b>
Food product not cold enough.	Food product must be chilled to 33-35 deg. when placed in unit.
	Air movement over food product.
	Food product not being stirred or rotated.
	Call factory for service at 1-800-762-7565



120 VOLTS

- WF-2-----1/5 H. P.
- WF-3-----1/4 H. P.
- WF-4-5-----1/3 H. P.
- WF-6-----1/2 H. P.

REVISION HISTORY

REV	DESCRIPTION	DATE	BY
1	ON CAD	09-04-08	MHA
2			
3			
4			
5			

*These plans are the exclusive property of Atlas Metal Industries Inc. Any unauthorized use without written consent of Atlas Metal Industries Inc., is strictly prohibited.*



DATE: 09.04.08	SIZE: B	CUSTOMER: WF-ELECTRICAL SCHEMATIC	
DRAWN BY: MHA		REFERENCE: WF-2-3-4-5-6 ELEC. SCHEMATIC	
CHECKED BY: NS		P.O. #: -----	DRAWING No. -----
		JOB #: -----	SCALE: 3/4" = 1'-0" SHEET No. 1 OF 1



**A T L A S M E T A L**

## **LIMITED WARRANTY**

Atlas Metal Industries, Inc. warrants to the Purchaser of this product that the same shall be free from defects in the workmanship and material for a period of one year from the date of original installation of the equipment, but not to exceed eighteen (18) months after date of shipment from factory. During this period of time Atlas Metal Industries, Inc. will replace all defective parts and will pay for authorized replacement labor. Replacement and installation of such parts and labor shall be provided only upon prior written authority of Atlas Metal Industries, Inc.

**The Refrigeration** warranty is for a twenty (20) month time period and includes supplying the compressor at a no charge basis provided the damage to the compressor was not caused by the customer or end user. Authorized replacement labor will be paid for a period of one year from date of installation. Freight costs for defective unit to and from Atlas Metal Industries, Inc. are not included, and all defective parts must be returned to the factory freight prepaid for evaluation. **ALL WARRANTY LABOR MUST BE AUTHORIZED BY ATLAS METAL INDUSTRIES, INC. PRIOR TO THE ACTUAL WORK BEING DONE.** This warranty does not apply to any equipment or any part thereof, which has been subjected to shipping damage, improper voltage, alteration, abuse or misuses, and does not cover loss of food, other products, or damage to property due to mechanical or electrical malfunction.

**THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. SELLER DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY OF THE GOODS OR THE FITNESS OF THE GOODS FOR ANY PURPOSE AND BUYER AGREES THAT THE GOODS ARE SOLD "AS IS."**



**A T L A S M E T A L**

## **WARRANTY INFORMATION**

**In order to have your invoice approved for payment by the factory, please note the following:**

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**An authorization number must be obtained from the factory prior to performing any warranty service.**

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**Atlas Metal will not approve excessive labor due to poor access to the unit being serviced. If design does not allow reasonable access, contact the factory.**

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**All travel time that exceeds 100 miles round trip must be authorized by the factory.**

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**Thank You:  
Warranty service Dept.**



**A T L A S M E T A L**

## **FOR UNITS LESS A COMPRESSOR**

The warranty for units less a compressor cover defects in workmanship. It covers service for said defects.

Because of the wide variety of refrigerants, install variables, and location differences, service for units less a compressor does not include installation, or defects resulting from installation.

Atlas is not responsible for customer hook up, installation, refrigeration variances, refrigeration performance, and other issues related to the installation and/or hook up of the sites refrigeration system to the unit less compressor.

Atlas is proud to continue to offer technical phone support free of charge, as well as help coordinate service calls. All service calls, authorizations, and charges must be assumed by the requestor.

Before purchasing a unit less compressor, be sure to have communicated all technical aspects of the details to the Atlas sales team. This includes but not limited to refrigerants, electrical conditions, and dimensions of installation.