



Sub-Zero® is a registered trademark of Sub-Zero Freezer Company, Inc. All rights reserved. Sub-Zero® is a registered trademark of Sub-Zero Freezer Company, Inc. All rights reserved. Sub-Zero® is a registered trademark of Sub-Zero Freezer Company, Inc. All rights reserved. Sub-Zero® is a registered trademark of Sub-Zero Freezer Company, Inc. All rights reserved.

SECTION 1

GENERAL INFORMATION

With all the features and options available today, it's important to know what you're getting. This section will help you understand the basic features of your Sub-Zero® refrigerator.

Learn more about Sub-Zero® by visiting our website at www.subzero.com.

For further information or assistance, contact:
Sub-Zero® Customer Support
800.523.3333

For further information or assistance, contact:
Sub-Zero® Customer Support
800.523.3333

GENERAL INFORMATION

Customer Support & Product Information

Phone Number
1-800-523-3333

Customer Support E-mail Address
customersupport@subzero.com

Office Hours
8:00 AM to 5:00 PM Central Time
www.subzero.com

Customer Support & Product Information

Monday through Friday

Customer Support & Product Information

Customer Support & Product Information

Sub-Zero® is a registered trademark of Sub-Zero Freezer Company, Inc. All rights reserved. Sub-Zero® is a registered trademark of Sub-Zero Freezer Company, Inc. All rights reserved. Sub-Zero® is a registered trademark of Sub-Zero Freezer Company, Inc. All rights reserved. Sub-Zero® is a registered trademark of Sub-Zero Freezer Company, Inc. All rights reserved.

Sub-Zero® is a registered trademark of Sub-Zero Freezer Company, Inc. All rights reserved. Sub-Zero® is a registered trademark of Sub-Zero Freezer Company, Inc. All rights reserved. Sub-Zero® is a registered trademark of Sub-Zero Freezer Company, Inc. All rights reserved. Sub-Zero® is a registered trademark of Sub-Zero Freezer Company, Inc. All rights reserved.

INTRODUCTION

This Sub-Zero Technical Service and Parts Manual (Job Aid Part #3757320) for the Model 315W is a compilation of information provided by the Scotsman Company and has been reprinted by Sub-Zero Freezer Company, Inc., with the permission of the Scotsman Company. This manual will provide the most recent service information about the model 315I. This information will enable the service technician to diagnose malfunctions, perform necessary repairs and return a model 315I appliance to proper operational status.

The service technician should read the complete instructions contained in this manual before initiating any repairs on a model 315I.

IMPORTANT SAFETY INFORMATION

Below are Product Safety Labels used in this manual. The "Signal Words" used are **WARNING** or **CAUTION**.

When reviewing this manual, please note these different Product Safety Labels placed at the beginning of certain sections of this manual. You must follow the instructions given in the boxes of the Product Safety Labels in order to avoid personal injury and/or product damage.

The sample Product Safety Labels below illustrate the precautions that should be taken when the signal word is observed.

! WARNING

INDICATES THAT HAZARDOUS OR UNSAFE PRACTICES COULD RESULT IN SEVERE PERSONAL INJURY OR DEATH.

! CAUTION

Indicates that hazardous or unsafe practices could result in minor personal injury, and/or product damage, and/or property damage.

In addition, please pay attention to the signal word "**NOTE**", which highlights information that is especially important for the topic being covered.

This manual is designed to be used by Authorized Service Personnel only. Sub-Zero Freezer Co., Inc. assumes no responsibility for any repairs made on Sub-Zero refrigeration units by anyone other than Authorized Service Technicians.

Information and images contained in this manual are the copyright property of Sub-Zero Freezer Company, Inc. Neither this manual nor any information or images contained herein may be copied or used in whole or in part without the express written consent of Sub-Zero Freezer Company, Inc.

© Sub-Zero Freezer Company, Inc, all rights reserved.



TABLE OF CONTENTS

	Page #
Section 1 - General Information	1-1
Introduction	1-2
Important Safety Information	1-2
Technical Assistance	1-2
Table of Contents	1-3
Warranty Information	1-4
Serial Number Tag Information	1-4
Model Description	1-5
Components / Features	1-5
Section 2 - Installation Information.....	2-1
Pre-Installation Considerations	2-2
Air	2-2
Water Supply	2-2
Water Quality	2-2
Electricity	2-3
Drain	2-3
Possible Need for Unit Removal	2-3
Moving the Unit	2-3
Unit Dimensions	2-3
Pre-Installation Specifications (Model 315I)	2-4
Installation	2-4
Leveling	2-4
Installation Instructions (Model 315I)	2-4
Pre-Installation Specifications (Model 315IP)	2-5
Installation	2-5
Installation Instructions (Model 315IP)	2-5
Kickplate / Grille Adjustment	2-6
Reversing Door Swing	2-6
Stainless Steel Door Panels	2-7
Door Panel Installation	2-7
Side Panels	2-8
90° Door Stop Installation	2-8
Hinge Cover Installation	2-8
Initial Start Up	2-9
Section 3 - Theory of Operation	3-1
Operating Systems	3-2
Refrigeration System	3-2
Water System	3-3
Electrical System	3-3
Operational Cycles	3-4
Ice Making (Freeze) Cycle	3-4
Harvest Cycle	3-5
What to Expect from the Model 315I	3-6
Ice	3-6
Storage	3-6
Run Time	3-6
Section 4 - Maintenance, Cleaning & Adjustments	4-1
Maintenance & Cleaning	4-2
The Five Things to Keep Clean	4-2
Cleaning Outside of Cabinet	4-2
Cleaning & Sanitizing Ice Storage Bin	4-2
Cleaning Ice Scoop	4-2
Cleaning Condenser	4-2
Cleaning Ice Making System	4-3
Winterizing the Ice Machine	4-4
Adjustments	4-5
Cube Size Control Adjustment	4-5
Bin Level Adjustment	4-6
Harvest Cycle Timer Adjustment	4-6
Section 5 - Component Access and Removal	5-1
Component Access and Removal	5-2
Warnings	5-2
Cautions	5-2
Exterior Components	5-3
Kickplate	5-3
Door Panel Mounting Hardware	5-3
Door Gasket	5-3
Door	5-4
Hinge	5-4
Bin Thermostat Control Knob	5-4
Control Panel Assembly	5-4
Inner Control Access Panel	5-5
Bin Trim Ring	5-5
Upper Cabinet Face Plate & Bin Seal	5-5
Decor Trim Gasket	5-5
Lower Cabinet Face Plate	5-6
Hinge Mount Support Bracket	5-6
Rear Panel	5-6
Cabinet / Shell	5-6
Components in Bin Area	5-7
Bin Thermostat Bracket	5-7
Curtain & Curtain Stiffener	5-7
Cube Chute	5-7
Spray Jet Assembly	5-7
O-Ring & Spray Bar	5-8
Circulating / Spray Pump Hoses	5-8
Reservoir Drain Hose	5-8
O-Ring & Stainless Steel Drain Nipple	5-8
Components Behind Panels & Shell	5-9
Inlet Water Valve	5-9
Harvest Cycle Timer	5-9
Terminal Board	5-9
Hot Gas Solenoid Coil	5-10
Drain Pump Pressure Switch (315IP Only)	5-10



Page

Circulating / Spray Pump.....	5-10
Bin Level Control.....	5-11
Cube Size Control	5-11
Reservoir Fill Tube.....	5-12
Drain Pump Assembly (315IP Only)	5-12
Condenser Fan Assembly	5-13
High-Side Filter-Drier.....	5-13
Evaporator Assembly	5-14
Hot Gas Valve	5-14
Compressor.....	5-15
Condenser.....	5-15

Section 6 - Parts Lists & Exploded Views 6-1

Cabinet	6-2
Major Assemblies	6-3
Condensing Unit	6-4
Reservoir	6-5
Control Box	6-6
Compressor.....	6-7

Section 7 - Troubleshooting Guide 7-1

Troubleshooting Guide	7-2
How to Use the Troubleshooting Guide	7-2
Troubleshooting Guide Layout	7-2
Guide	7-3

Section 8 - Technical Data Tables 8-1

Bin Capacity & Ice Production.....	8-2
Sealed System Information	8-2
Electrical Information	8-2

Section 9 - Wiring Diagrams & Schematics 9-1

Model 315I.....	9-2
Model 315IP	9-3



WARRANTY INFORMATION

This page contains a summary of the 2, 5 & 12 Year Warranty that is supplied with every Sub-Zero Appliance.

TWO, FIVE & TWELVE YEAR Warranty Summary

- Two year TOTAL PRODUCT warranty, *parts and labor.
- Five Year SEALED SYSTEM warranty, **parts and labor.
- Sixth through Twelfth year LIMITED SEALED SYSTEM warranty, sealed system **parts only.

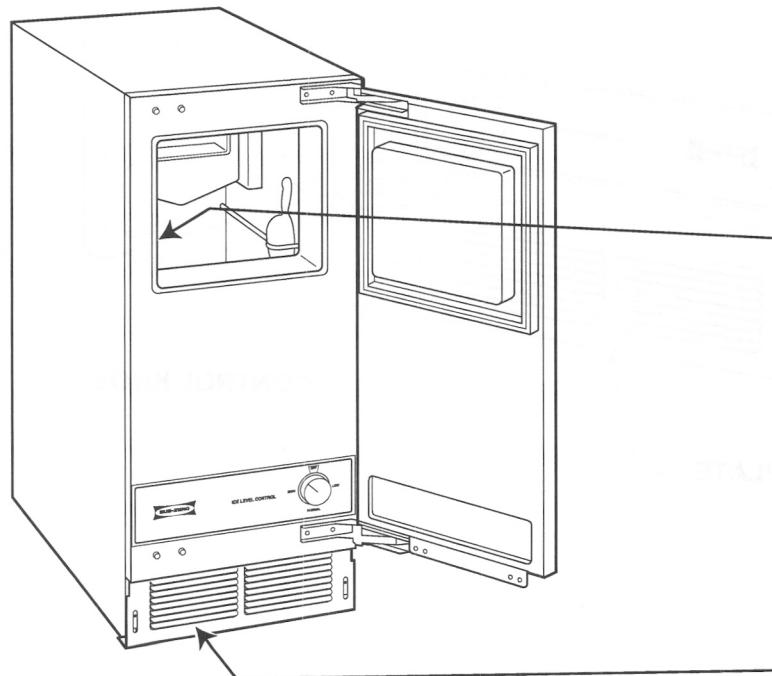
ONE & FIVE YEAR Non-Residential Warranty Summary (Example: Office, Yacht, etc.)

- One Year TOTAL PRODUCT warranty, *parts and labor.
- Five year LIMITED SEALED SYSTEM warranty, sealed system **parts only.

ONE & FIVE YEAR Display / Model Home Warranty Summary (Display units sold three years after date of manufacture)

- One Year TOTAL PRODUCT warranty, *parts and labor.
- Five year LIMITED SEALED SYSTEM warranty, sealed system **parts only.

Serial Number Tag Information:



Warranty Details:

- * Total Product Parts includes, but is not limited to the following:

Control, Circulating Pump, Switches, Fan Motor & Blade, Drain Tube, Wiring, Water Valve, Hot Gas Valve, Door hinges, Compressor Electricals, etc. . .

- ** Sealed System Parts include the following:

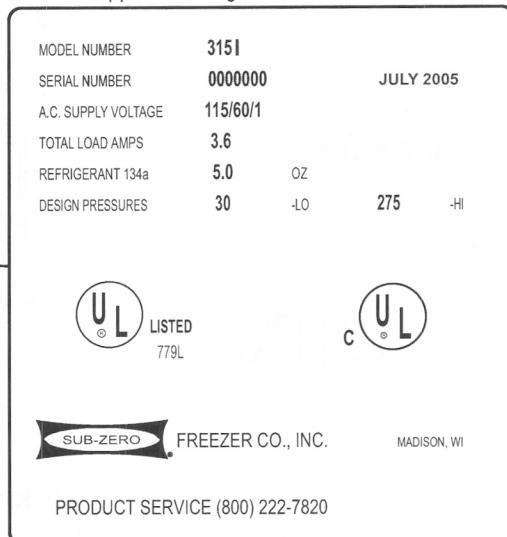
Compressor, Condenser, Evaporator, Filter-Drier, Heat-exchanger, All Tubing That Carries the Freon.

NOTE: Condenser Fan Motor, Freon, Solder and compressor electricals are NOT considered sealed system parts.

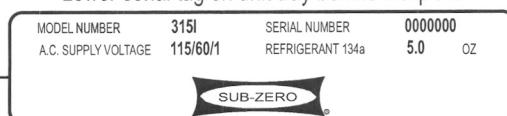
Warranty Notes:

- Sub-Zero Freezer Company, Inc. assumes no liability or responsibility for Sub-Zero products that have been altered in any way, including the use of parts and/or components not specifically approved by Sub-Zero.
- All warranties begin at the time of the unit's initial installation.
- All Warranty and Service information collected by Sub-Zero is arranged and stored under the unit serial number and/or customer name. Sub-Zero requests that you have the model and serial number available whenever contacting the factory or parts distributor.
- The serial number tag is located in two places, one on the left wall of the ice bin and one on the unit tray. (See Diagram below)

Upper serial tag on left side of ice bin



Lower serial tag on unit tray behind kickplate



MODEL DESCRIPTION

There are two 315I models with different drainage configurations, the *Model 315I* and *Model 315IP*:

The *model 315I* is a gravity drain model that requires a drain tube that is pitched down from the outlet at the back of the cabinet directly to the sanitary sewer drain.

The *model 315IP* has a built-in drain pump that will pump water up to a drain point (maximum 10' rise).

COMPONENTS / FEATURES

