

Origins Series

Service Manual 2008

Origin Series Models

SP18

ULN-95 Icemaker

ULN-98 Icemaker

SS-1095 Icemaker

U-CO29F

U-CO29A

ULN-29R

U-1075BEV

U-1075WC

U-CO1175

BI-2115



INTRODUCTION

Three generations of pride and quality manufacturing and design improvements are built into all U-Line products. The result: U-Line leads the market with innovative technology and superior craftsmanship.

This manual contains specific instructions for servicing the U-Line Products which include these models:

MODELS

SP18

ULN-95 Icemaker

ULN-98 Icemaker

SS-1095 Icemaker

U-CO29F

U-CO29A

ULN-29R

U-1075BEV

U-1075WC

U-CO1175

BI-2115

POTENTIAL PROBLEMS WITH HFC-134A

This service manual has been written to cover products manufactured with HFC-134A. HFC-134A compressors receive a synthetic based ester oil charge. The hygroscopic (water attraction) property of ester oil is many times greater than the mineral oils previously used with CFC-12. High system moisture causes the formation of acids and alcohol which can damage the compressor. Systems should not be left open for more than fifteen (15) minutes at any time as humidity from the air will enter the system. To ensure system dehydration, the system should be pulled down to 100 microns and vacuum pump oil (mineral oil) must not be allowed to enter the system.

Cleanliness of the system is extremely important. The presence of residues (chlorinated or greasy residues, mineral oil, or impurities) can lead to capillary tube restrictions, oil return problems and compressor damage. Do not use flux on brazed joints.

IMPORTANT

Check for the latest service related information at U-LineService.com. The Technical Knowledge base is continuously updated and can be accessed anytime. Each U-Line product has a unique method of installation, but it is consistent with U-Line's methods and requirement. Follow the installation guidelines for the U-Line product you are installing.

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SAFETY PRECAUTIONS

IMPORTANT

PLEASE READ all instructions completely before attempting to service the unit.

- Proper installation procedures must be followed if this unit is being initially installed, or is moved to a new location after being in service. An INSTALLATION GUIDE for your unit, providing complete installation information is available from U-Line Corporation directly, and must be consulted before any installation is begun. U-Line contact information appears on the rear cover of this guide.
- This unit requires connection to a grounded (three-prong), polarized receptacle that has been placed by a qualified electrician in accordance with applicable electrical codes.

Safety Alert Definitions

Safety items throughout this guide are labeled with a Danger, Warning or Caution based on the risk type:

A DANGER

Danger means that failure to follow this safety statement will result in severe personal injury or death.

Warning means that failure to follow this safety statement could result in serious personal injury or death.

Caution means that failure to follow this safety statement may result in minor or moderate personal injury, property or equipment damage.

General Precautions

Use this appliance for its intended purpose only and follow these general precautions along with those listed throughout this guide:

ADANGER

RISK OF CHILD ENTRAPMENT. Before you throw away your old refrigerator or freezer, take off the doors and leave shelves in place so that children may not easily climb inside.

WARNING

SHOCK HAZARD - Electrical Grounding Required.

- Never attempt to repair or perform maintenance on the unit until the electricity has been disconnected.
- Never remove the round grounding prong from the plug and never use a two-prong grounding adapter.
- Altering, cutting of power cord, removal of power cord, removal of power plug, or direct wiring can cause serious injury, fire and/or loss of property and/or life and will void the warranty.
- Never use an extension cord to connect power to the unit.
- Always keep your working area dry.

🕂 WARNING

Failure to use the Anti-Tip Kit when it is included with the product can cause serious personal injury. The Anti-Tip Kit must be installed before the unit is used.

- Use care when moving and handling the unit. Use gloves to prevent personal injury from sharp edges.
- If your model requires defrosting, DO NOT use any type of heater to defrost. Using a heater to speed up defrosting can cause personal injury and damage to the inner lining.

IMPORTANT

- Do not lift unit by door handle.
- Never install or operate the unit behind closed doors. Be sure front grille is free of obstruction. Obstructing free air flow can cause the unit to malfunction and may void the warranty.
- Failure to clean the condenser every three months can cause the unit to malfunction. This could void the warranty.
- Allow unit temperature to stabilize for 24 hours before use.
- If your model requires defrosting, never use an ice pick or other sharp instrument to help speed up defrosting. These instruments can puncture the inner lining or damage cooling unit.
- Use only genuine U-Line replacement parts. Imitation parts can damage the unit, affect its operation or performance and may void the warranty.

U-LINE CORPORATION LIMITED WARRANTY

U-Line Corporation warrants each U-Line product to be free from defects in materials and workmanship for a period of one year from the date of purchase; and warrants the sealed system (consisting of the compressor, the condenser, the evaporator, the hot gas bypass valve, the dryer and the connecting tubing) in each U-Line product to be free from defects in materials and workmanship for a period of five years from the date of purchase. During the initial one-year warranty period for all U-Line products U-Line shall: (1) at U-Lines option, repair any product or replace any part of a product that breaches this warranty; and (2) for all Marine, RV and Domestic U-Line products sold and serviced in the United States (including Alaska and Hawaii) and Canada, U-Line shall cover the labor costs incurred in connection with the replacement of any defective part. During years two through five of the warranty period for the sealed system, U-Line shall: (1) repair or replace any part of the sealed system that breaches this warranty; and (2) for all Marine, RV and Domestic U-Line products sold and serviced in the United States (including Alaska and Hawaii) and serviced in the United States (including Alaska and Havili) and Canada, U-Line shall cover the labor costs incurred in connection with the replacement of any defective part. All other charges, including transportation charges for replacements under this warranty and labor costs not specifically covered by this warranty, shall be borne by you. This warranty is extended only to the original purchaser of the U-Line product. The Registration Card included with the product should be promptly completed by you and mailed back to U-Line or you can register on-line at www.U-LineService.com.

The following are excluded from this limited warranty: installation charges; damages caused by disasters or acts of God, such as fire, floods, wind and lightening; damages incurred or resulting from shipping, improper installation, unauthorized modification, or misuse/abuse of the product; customer education calls; food loss/spoilage; door and water level adjustments (except during the first 90 days from the date of purchase); defrosting the product; adjusting the controls; door reversal; or cleaning the condenser.

If a product defect is discovered during the applicable warranty period, you must promptly notify either the dealer from whom you purchased the product or U-Line at P.O. Box 245040, Milwaukee, Wisconsin 53224 or at 414-354-0300. In no event shall such notification be received later than 30 days after the expiration of the applicable warranty period. U-Line may require that defective parts be returned, at your expense, to U-Lines factory in Milwaukee, Wisconsin, for inspection. Any action by you for breach of warranty must be commenced within one year after the expiration of the applicable warranty period.

This limited warranty is in lieu of any other warranty, express or implied, including, but not limited to any implied warranty of merchantability or fitness for a particular purpose; provided however, that to the extent required by law, implied warranties are included but do not extend beyond the duration of the express warranty first set forth above. U-Lines sole liability and your exclusive remedy under this warranty is set forth in the initial paragraph above. U-Line shall have no liability whatsoever for any incidental, consequential or special damages arising from the sale, use or installation of the product or from any other cause whatsoever, whether based on warranty (express or implied) or otherwise based on contract, tort or any other theory of liability.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.



PRODUCT LIABILITY POLICY

Field service technicians are authorized to make an initial assessment. If in the servicer's judgment the damage is the result of a product defect, the product would be removed and returned to U-Line in an unaltered condition. The dealer would then be authorized to permanently replace the enduser's product at no cost to the end-user. If in the servicer's judgment the damage is the result of installation issues (water connection/drain, etc.), the consumer would be so notified and the correction would be made by the servicer or installer without requiring removal of the product. Any claim for damages should be directed to the original installer.

Any U-Line unit involved in a property damage claim must remain unaltered and unrepaired, for evaluation. No service or repairs should be performed on any unit suspected to be involved in a property damage situation. If a unit has been altered or repaired in the field prior to U-Line's evaluation, any claim for damage may be declined.

If the unit in question is a U-Line CLR60, CLR2060, CLR2160 or CLRCO2075, CLRCO2175 with a drain pump, both the CLR60, CLR2060, CLR2160 or CLRCO2075, CLRCO2175 and the drain pump (regardless of the manufacturer) must be returned to U-Line Corporation.

If a unit is returned to U-Line, this evaluation will take approximately two (2) weeks. **No field service company is authorized to perform this evaluation**. When a Return Authorization Number is issued, and the unit has been boxed in a U-Line carton, U-Line should be contacted and then will make arrangements for shipping, or designate a truck line to have the unit shipped freight collect.

If U-Line's evaluation finds the unit, (or U-Line P60 pump) to be defective, causing the property damage, the damage claim will be reviewed by the U-Line Customer Assurance Department.

If U-Line's evaluation finds the unit not to be defective, does not repeat a failure or does not leak any water from the U-Line unit or U-Line P60 pump, all claims for damage will be declined.

When a product evaluation is needed, it is the customer's responsibility to assure that the unit is returned for evaluation. If the customer fails to do so, or has the unit repaired in the field prior to U-Line's evaluation, any claim for damage will be declined.

8900 N. 55th St. • P.O. Box 245040 Milwaukee, WI 53224-9540 414/354-0300 • Fax: 414/354-7905 Website: www.u-line.com

Leaders In Quality Undercounter Refrigeration



SERIAL NUMBER FORMAT

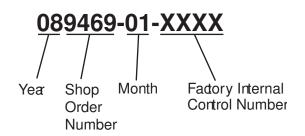
The serial number is divided into four segments. A typical serial number is 089469-01-0002.

The first two digits of the first segment, 08, represents the year the unit was made.

The next four digits of the first segment, 9469, represent the shop order number. Order number 9469 is assigned for the Model CLR2160 B-00 units.

The next two digit segment, 01, represents the month the unit was made.

The last four digit segment, XXXX, is a factory internal control number used at U-Line Corporation.



WARRANTY CLAIMS PROCEDURE

When submitting claims for warranty payment, please follow these guidelines.

You can use any form you would normally use to bill your customer (your own computer generated form, Narda, USA, etc.). Claims can also be filed on-line at www.u-lineservice.com.

The model and serial number **MUST** be on the claims. Claims will not be paid without a model and serial number.

If you work on more than one unit per service call please submit a separate claim for each unit.

We track all defects through warranty claims, so please be specific on what the repair was. If it is a system leak, please specify where the leak was.

Please be sure the claim is legible. If the claim form cannot be read, it will be returned, unpaid.

All ice maker parts are available as replacement parts and are stocked in our inventory. **Remember:** Door and water level adjustments are 90 day warranties only.

If you are changing out a unit please supply the model and serial number of both units (the unit being replaced and the new unit) and the R.A. number. Occasionally the customer does not return their warranty cards. In this case we use the date the unit was shipped to our distributor for a beginning warranty date. This may cause the claim to be rejected for a proof of purchase. If you want to check on a purchase date, you may contact the U-Line Corporation Customer Assurance Department at 1-800-779-2547. This will allow you to get a proof of purchase, if needed, before you submit the claim.

At U-Line, parts and labor claims are paid separately. Included in labor are freon and recovery charges, all other parts are handled by the parts department. We require that some parts be returned to us, so we may return them to our vendor. It will be noted on your packing list if we require you to return the part. If a part is to be returned please include a copy of the packing list and a copy of your claim. If the part was purchased at one of our part distributors, you must handle the part warranty with that company. For labor payment please send a readable copy of your claim to U-Line Corporation, P.O. Box 245040, Milwaukee WI, 53224-9540, or fax it to 414-354-5696. Claims can also be filed on-line at www.u-lineservice.com.

PROOF OF PURCHASE

Proof of Purchase and/or Proof of Install is an important part of the warranty claim process. Sometimes it is difficult to obtain a proper Proof of Purchase/Proof of Install for a number of different reasons:

- The customer does not have a copy (only the original).
- The customer has only their copy of the final Walk Through or sign-off of new construction.
- Other valid reasons that prevent your technician from leaving the job site with a suitable Proof of Purchase/ Proof of Install.

We understand the problem and have modified our Proof of Purchase policy to help you in these situations.

Effective immediately, if a copy of the Proof of Purchase/ Proof of Install is not available at the site, the technician should record the following information on the Labor Invoice:

- The name of the selling Dealer
- The date of purchase/installation
- The Order or Invoice number (if available)
- The type of document they saw, i.e. Store Receipt, Closing Papers, Sign-Off of Building Permit, Final Walk Through, etc.

If we have this information on the Labor Invoice, and we have the other information that is needed (correct Serial Number, type of repair, time spent on repairs, etc.), we will be able to process the invoice for you in a timely manner. $\bigcup_{\mathbb{D}} \underbrace{\mathbf{U-LINE}}_{\mathbb{C} \ \mathbb{C} \ \mathbb{C}$

PARTS LISTING

How to Order Replacement Parts

- 1. Refer to Service Parts and locate the illustration(s) for the model you are servicing.
- 2. Locate the desired part to be serviced and note the item number assigned to it.
- 3. Locate the item number within the parts list. Note the full description and the corresponding part number. If this is for a warranty unit, indicate and record the model and serial numbers.
- 4. When ordering parts, it will be necessary to supply Model Number, Serial Number, Part Number, Part Description and in some cases Color or Voltage.
- 5. U-Line requires the return of the parts listed below if replaced under warranty.
- Fan motors (condenser and evaporator)
- Temperature controls
- Water solenoid valves
- Pumps
- Control boards
- Ice maker motors
- Bypass solenoids
- Compressors (two years old or less lines soldered closed)

All warranty parts will be shipped at no charge as long as warranty status has been confirmed. We require that some parts be returned to U-line, so we may return them to our vendor. It will be noted on your packing list if we require you to return a part or if you may field scrap it. If U-Line requires a defective part to be returned, a prepaid shipping label will be included with your new replacement part. When returning parts enclose a copy of your packing list and a copy of your labor claim, showing the model and serial number, and tag or label the part with the nature of the defect. Our warranty records may not match the customer's information. In this case, a proof of purchase will be required. If you do not have the proof of purchase at the time the order is placed, the part will be sent net 15 days (COD if you don't have an open account with U-Line Corporation). When the proof of purchase is provided, we will credit your account (a check will be sent if the part was sent COD).

6. Parts may be ordered on-line, by FAX or phone:

www.U-LineService.com

FAX Number (414) 354-7905

Phone Number (414) 354-0300 or (800) 779-2547; press 3.

To expedite parts shipments, FAX all parts orders to: (414) 354-7905. Copy the FAX Parts Order Form, located in the back of this manual, when placing an order.

 Complete ice maker assembly replacement is not necessary because all ice maker parts are available as replacement parts and are stocked in our inventory.

REPLACEMENT PARTS: Use only genuine U-Line replacement parts. The use of non-U-Line parts can reduce ice rate, cause water to overflow from ice maker mold, damage the unit, and can void the warranty.



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CUSTOMER CALL GUIDE

U-Line's warranty does not cover customer education calls. It has been reported that as high as 50% of all service calls performed are customer education calls. The following guide has been developed to help answer frequently asked questions. It can be used by persons scheduling service calls. Things to consider before scheduling a service call:

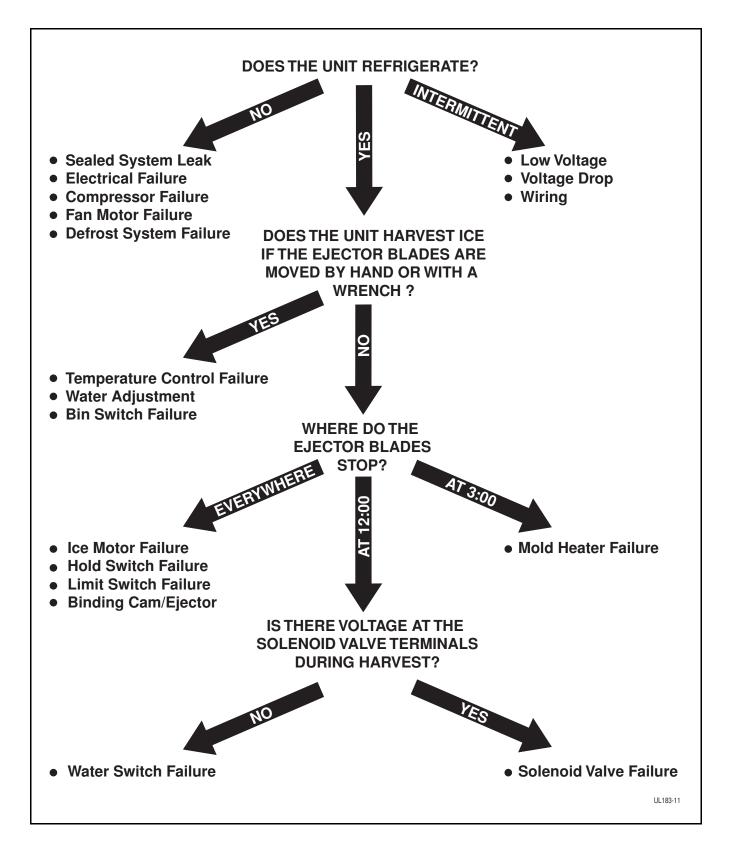
| Concern | Response |
|--------------------------------------|---|
| The unit is not cold enough. | • Are you familiar with the factory temperature specifications for your unit? Many factors can cause these temperatures to vary; ambient temperature, application, amount of use (number of times and length of time the door or drawers or opened and closed), etc. |
| | • Is the door or drawers sealing properly? If the door or drawer is not sealed properly, it allows heat into the unit. U-Line's warranty is 90 days for door or drawer adjustments. |
| | Has the door or drawers been left open? |
| | Is the condenser clean? U-Line's warranty does not cover cleaning the condenser. |
| | • Is the unit behind closed doors or the vent restricted? The front grille must be free of obstruction. |
| | Is the unit in an application of heavy usage? Heavy usage or high ambient temperatures will cause a unit to frost up. |
| | • Did you try adjusting the temperature to a colder level? Adjust to a colder level. Be sure to allow 24 hours between temperature control adjustments. |
| Temperature is too cold. | Check actual temperature versus set-point. |
| The unit is frosting up. | Are you familiar with the defrost technology of your unit? |
| | Is the door or drawers sealing properly? If the door or drawer is not sealing properly, it allows heat/humidity into the unit. U-Line's warranty is 90 days for door or drawer adjustments. |
| | Has the door or drawers been left open? |
| | Is the unit in an application of heavy usage? Heavy usage or high ambient temperatures will cause a unit to frost up. |
| The ice cubes are sticking together. | • Is the door or drawers sealing properly? This could cause the ice cubes to stick together. |
| | • Have you tried to shake the ice bucket? If the ice sits without being used, it will tend to stick together. Shaking the bucket will usually break the ice cubes apart. If the ice has been sitting for a long time, you should consider discarding it and make a fresh batch. |
| | Does the unit need to be defrosted? |
| Water is leaking out of the unit. | Have you checked the water connection to the unit? U-Line's warranty does not cover installation adjustments. |
| No ice or not enough ice. | • Are you aware of the factory specifications for ice production? |
| | Is the ice maker bin arm down? When the arm is up, the ice maker will not make ice. |
| | Is the door or drawers sealing properly? U-Line's warranty is 90 days for door adjustments. |

REFRIGERATION SYSTEM DIAGNOSIS GUIDE

| System Condition | Suction Pressure | Suction Line | Compressor Discharge | Condenser | Capillary Tube | Evaporator | Wattage |
|-------------------------|--|---------------------------------------|-------------------------------|--|--|---|-----------------------|
| Normal | Normal | Slightly below room temperature | Very hot | Very hot | Warm | Cold | Normal |
| Overcharge | Higher than normal | Very cold may frost heavily | Slightly warm to hot | Hot to warm | Cool | Cold | Higher than normal |
| Undercharge | Lower than normal | Warm-near room temperature | Hot | Warm | Warm | Extremely cold near inlet - Outlet below room temperature | Lower than normal |
| Partial Restriction | Somewhat lower than normal vacuum | Warm - near room temperature | Very hot | Top passes warm - Lower passes cool (near room temperature) due to liquid | Room temperature (cool) or colder | Extremely cold near inlet - Outlet below room temperature backing up | Lower than normal |
| Complete Restriction | In deep vacuum | Room temperature (cool) | Room temperature (cool) | Room temperature (cool) | Room temperature (cool) | No refrigeration | Lower than normal |
| No Gas | 0 PSIG to 25" | Room temperature (cool) | Cool to hot | Room temperature (cool) | Room temperature (cool) | No refrigeration | Lower than normal |



ICE MAKER DIAGNOSIS FLOW CHART



TROUBLESHOOTING

Never attempt to repair or perform maintenance on the unit until the main electrical power has been disconnected from the unit

Additional specific troubleshooting information can be found in Theory of Operation - Section 3, under the applicable model.

| Cause | | Remedy |
|--|-------------|---|
| Will not eject ice (water frozen) | | |
| 1. Control setting too cold. | 1. | Adjust control warmer (counterclockwise). |
| 2. Control inoperable (1-2 contacts | open) 2. | Replace control. |
| 3. Bin switch inoperable. | 3. | Replace bin switch. |
| 4. Limit switch defective (open). | 4. | Replace limit switch. |
| 5. Ice maker assembly motor stalled | l. 5. | Replace motor. |
| 6. Broken wire in ice maker circuit. | 6. | Repair or replace wiring. |
| 7. Water soaked cabinet insulation. | 7. | Replace foamed cabinet assembly. |
| 8. Dirty condenser. | 8. | Clean condenser. |
| Will not fill with water. | | |
| 1. Water supply valve closed. | 1. | Open water supply valve. |
| 2. Water switch inoperable (open). | 2. | Replace water switch. |
| 3. Solenoid valve inoperable. | 3. | Replace solenoid valve. |
| 4. Fill tube outlet frozen. | 4. | Defrost fill tube. |
| 5. Broken wire in water fill circuit. | 5. | Repair or replace wiring. |
| Will not stop making ice. | | |
| 1. Bin switch inoperable (closed). | 1. | Replace bin switch. |
| 2. Bin arm binding. | 2. | Lubricate bin arm pivot points or loosen bin arm lever screw. |
| Water will not stop filling. | | |
| 1. Water switch inoperable (closed |). 1. | Replace water switch. |
| 2. Solenoid valve inoperable. | 2. | Replace solenoid valve. |
| 3. Stalled ice maker motor. | 3. | Replace motor. |
| 4. Temperature control inoperable. continuous harvest cycle (contact | | Replace temperature control. |
| Ejector blades will not stop turr | ning. | |
| Control inoperable (1-2 contacts open). | will not 1. | Replace control. |
| 2. Hold switch inoperable. | 2. | Replace hold switch. |
| 3. Broken wiring. | 3. | Repair or replace wiring. |
| 4. Short in mold heater. | 4. | Replace heater. |



| Cause | Remedy |
|--|--|
| Low ice production. | - |
| 1. Control set too cold. | 1. Adjust control warmer (counterclockwise). |
| 2. Fan motor stalled. | 2. Replace fan motor. |
| 3. Ice cubes too large. | 3. Lower water fill adjustment. |
| 4. Dirty condenser. | 4. Clean condenser. |
| 5. Bypass valve stuck open (Frost Free units only). | 5. Replace bypass valve (Frost Free units only). |
| Not freezing (compressor and fan motors operating). | |
| 1. Little or no frost pattern on evaporator. | 1. Check for sealed system leak or restriction. |
| 2. Bypass valve stuck open (Frost Free units only). | 2. Replace bypass valve (Frost Free units only). |
| Not freezing (compressor not operating - fans operating). | |
| 1. Relay inoperable. | 1. Replace relay. |
| 2. Overload inoperable (open). | 2. Replace overload. |
| 3. Compressor inoperable. | 3. Replace compressor. |
| Not freezing (compressor and fans not operating). | |
| 1. Power cord not plugged in. | 1. Plug in power cord. |
| 2. On/Off switch in off position. | 2. Turn switch to on position. |
| 3. On/Off switch inoperable (open). | 3. Replace On/Off switch. |
| 4. Hold switch inoperable (open). | 4. Replace hold switch. |
| 5. Control inoperable (2-3 contacts open). | 5. Replace control. |
| 6. Broken wire in freeze circuit. | 6. Repair or replace wiring. |
| 7. Ejector blades not in freeze position (12:00) | Manually advance ejector blades to the 12:00 position (test ice maker and limit switch). |
| Compressor overheating. | |
| 1. Condenser air flow restricted. | 1. Remove restriction (clean condenser and grille). |
| 2. Condenser fan blade obstructed. | 2. Remove blade restriction. |
| 3. Condenser fan motor stalled. | 3. Replace fan motor. |
| 4. Compressor inoperable. | 4. Replace compressor. |
| Compressor will not stop operating. | |
| 1. Control set too cold. | 1. Adjust control warmer (counterclockwise). |
| 2. Control inoperable (2-3 contacts will not open). | 2. Replace control. |
| Control sensing bulb not sensing mold temperature. | Fully insert bulb into ice maker tube. Rout bulb away from compressor discharge tube. |
| 4. Evaporator fan stalled (Frost Free units only). | 4. Remove obstruction or replace motor. |

Section 2 - Troubleshooting



| Water leak (under unit). 1. Tighten fitting or replace fitting gasket and/or fitting. 1. Water supply line leaking at solenoid valve outlet. 2. Replace water line and fitting. 2. Water line leaking at solenoid valve outlet. 3. Tighten clamp or replace fill tube assembly. 3. Water line leaking at fill tube. 3. Tighten clamp or replace fill tube assembly. 4. Defrost drain line not in drain pan. 5. Replace water line. 5. Crack in water line. 5. Replace water line. Water leak (inside unit). 1. Remove obstruction. 2. Fill ice cup and fill tube out of alignment. 2. Align fill tube and fill cup. 3. Water level too high. 3. Adjust water level. 4. Defrost buildup. 4. Lice in drain trough (Frost Free units only) (see below). Excessive frost buildup. 1. Adjust door hinges or replace door gasket. 2. Door out of alignment. 2. Adjust door hinges. 3. Water soaked cabinet insulation. 3. Replace foamed cabinet assembly. 4. Light stays on when door is closed. 4. Repair or adjust light bracket. Noisy. 1. Carefully adjust tubing. 2. Fan blade touching shroud. 2. Adjust fan mounting or shroud. 3. Fan blade obstruction (wiring, foam insulation, packaging materia). 3. Remove obstruction. <t< th=""></t<> |
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| inlet.2.2.Water line leaking at solenoid valve outlet.2.3.Water line leaking at fill tube.3.4.Defrost drain line not in drain pan.4.5.Crack in water line.5.8.Replace water line.4.9.Crack in water line.5.9.Replace water line.5.9.Replace water line.9.9.Crack in water line.5.9.Replace water line.9.9.Crack in water line.1.9.Remove obstruction.2.1.Ice maker assembly fill cup obstructed.1.1.Ice maker assembly fill tube out of alignment.2.3.Water level too high.3.4.Defrost drain plugged (Frost Free units only).4.4.Ice in drain trough (Frost Free units only) (see below).Excessive frost buildup.1.1.Door out of alignment.2.2.Door out of alignment.3.3.Water soaked cabinet insulation.4.4.Light stays on when door is closed.4.Noisy.1.Carefully adjust tubing.1.Corper refrigeration tube touching cabinet.1.2.Fan blade touching shroud.3.3.Fan blade obstruction (wiring, foam insulation, packaging material).3.Ice buildup in drain trough or drainage problem.1.1.Obstructed drain cup or tube.1.1.Clear obstruction. </th |
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| 4. Defrost drain line not in drain pan.4. Position drain line in drain pan.5. Crack in water line.5. Replace water line.Water leak (inside unit).1. Remove obstruction.1. Ice maker assembly fill cup obstructed.1. Remove obstruction.2. Fill ice cup and fill tube out of alignment.2. Align fill tube and fill cup.3. Water level too high.3. Adjust water level.4. Defrost drain plugged (Frost Free units only).4. Ice in drain trough (Frost Free units only) (see below).Excessive frost buildup.1. Adjust door hinges or replace door gasket.2. Door out of alignment.2. Adjust door hinges.3. Water soaked cabinet insulation.3. Replace foamed cabinet assembly.4. Light stays on when door is closed.4. Repair or adjust light bracket.Noisy.1. Carefully adjust tubing.2. Fan blade touching shroud.3. Remove obstruction.3. Fan blade obstruction (wiring, foam insulation, packaging material).3. Remove obstruction.4. Deforder drain trough or drainage problem.1. Clear obstruction.1. Obstructed drain cup or tube.1. Clear obstruction. |
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| problem. 1. Clear obstruction. 1. Obstructed drain cup or tube. 1. Clear obstruction. |
| 1. Obstructed drain cup or tube. 1. Clear obstruction. |
| |
| only). |
| 3. Kinked drain tube. 3. Reroute drain tube. |
| 4. Drain trough spout and drain cup not aligned. 4. Align drain trough and drain cup. |
| Unit will not defrost (Frost Free units only). |
| 1. Bypass coil inoperable. 1. Replace bypass valve. |
| 2. Defrost timer inoperable. 2. Replace defrost timer. |
| 3. Bypass valve inoperable. 3. Replace bypass valve. |
| Fresh food temperature too cold. |
| 1. Temperature control set too cold. 1. Adjust control to warmer setting (counterclockwise). |
| 2. Bin/Freezer door not closing. 2. Adjust or replace door. |
| 3. Ice bucket not fully inserted. 3. Check for ice behind bucket and push ice bucket in place. |



REFRIGERATION SYSTEMS

Normal Vapor/Compression Cycle Refrigeration

- Refrigerant is pumped from the compressor to the condenser as a high pressure, high temperature vapor.
- As the refrigerant cools in the high pressure condenser, the vapor condenses to liquid. During this phase change, a great amount of heat is rejected with the help of the condenser fan.
- The liquid then flows to the dryer where is strained and filtered.
- From the dryer, the refrigerant flows through the capillary tube which meters the liquid refrigerant to

the evaporator. The pressure of the refrigerant is reduced to the evaporating, or low side, pressure.

- The reduction of pressure on the liquid refrigerant causes it to boil, or vaporize, until it reaches saturation temperature. As the low temperature refrigerant passes through the evaporator coil, it continues to absorb a lot of heat, causing the boiling action to continue until the refrigerant is completely vaporized. It is during this phase change that most heat is absorbed (the cooling takes place) in the refrigerator.
- The refrigerant vapor leaving the evaporator travels through the suction line to the compressor inlet. The compressor takes the low pressure vapor and compresses it, increasing both pressure and temperature. The hot high pressure gas is pumped out the discharge line and into the condenser. The cycle then repeats.

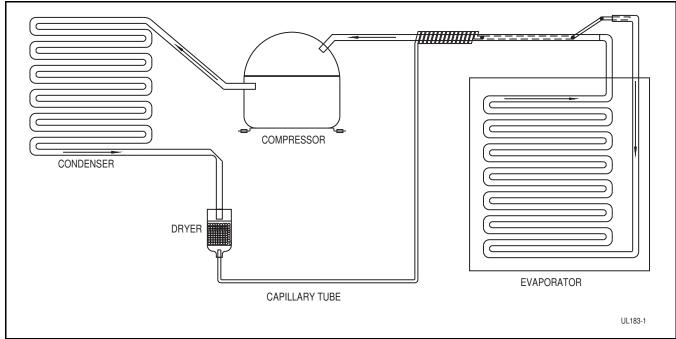


Figure 1. Normal Vapor/Compression Cycle Refrigeration System

Frost Free Refrigeration

COOLING MODE

- Bypass solenoid closed.
- Evaporator fan operating.
- Refrigerant flows through capillary tubes.
- Normal vapor/compression cycle refrigeration (see page 3-1).

DEFROST MODE

- Bypass solenoid valve open.
- Refrigerant flows through bypass system.
- Vapor flows from condenser to evaporator without a phase change.
- Drain heater on (U-CO29F only).

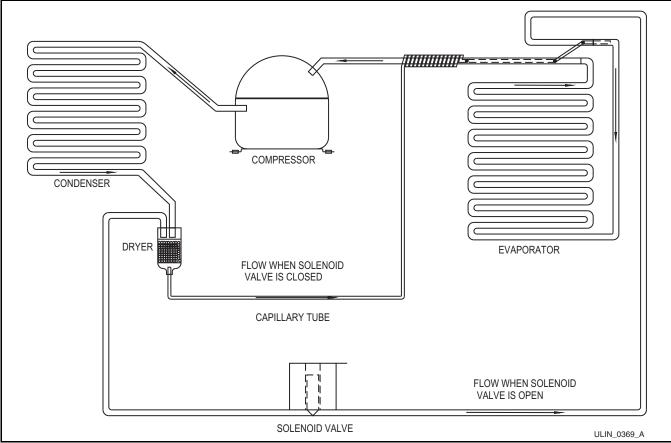


Figure 2. Frost Free Refrigeration System.



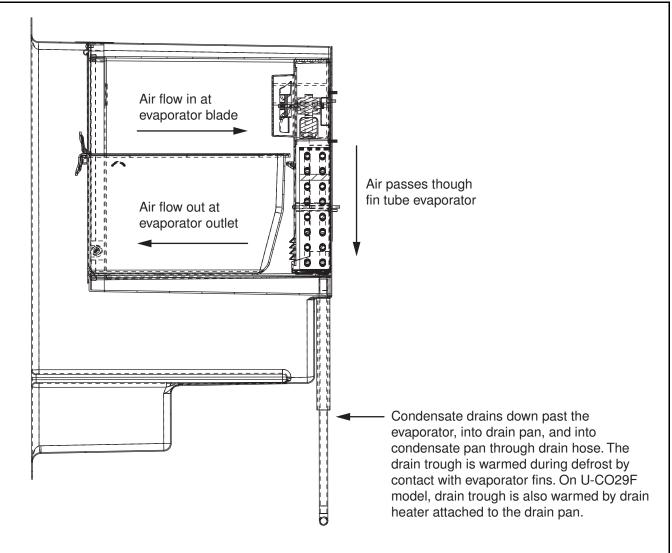


Figure 3. Frost Free Air Flow

COMPRESSOR/ELECTRICAL SPECIFICATIONS

Compressor Pins

To measure start winding resistance, measure across the C-S pins.

To measure run winding resistance, measure across the C-R pins. These pins should never measure any resistance to ground. This would indicate a shorted compressor.

Models ULN-95, ULN-98, SP18, U-CO29A, U-CO29R, SS-1095 - Figure 4

| EMI30HER Start winding resista EMI30HER Run winding resistar | |
|--|-------------------|
| SD39 Start winding resistance SD39 Run winding resistance | 11 OHMS 5 OHMS |
| EMI50HER Start winding resista EMI50HER Run winding resistar | |
| SD51 Start winding resistance SD51 Run winding resistance heater resistance 115 Volt Water valve coil resista | 80 OHMS |

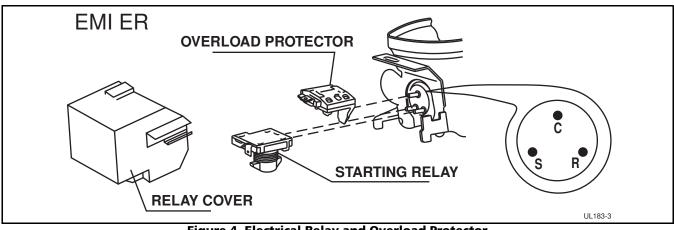
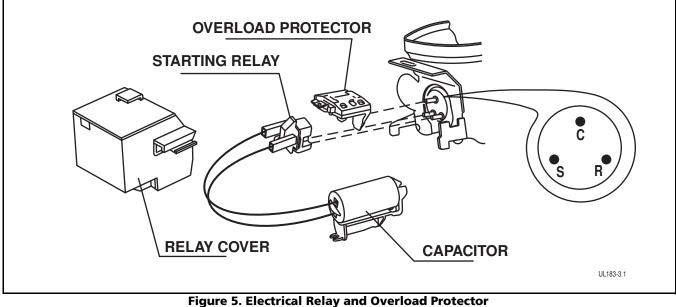


Figure 4. Electrical Relay and Overload Protector Models SP18, ULN-95, ULN-98, U-CO29A, U-CO29R & SS-1095

MODEL U-CO29F - Figure 5

| EMU45HSC Start winding resistance | 5.60 OHMS | 115 Volt Ice maker heater resistance | 80 OHMS |
|-----------------------------------|-----------|--------------------------------------|--------------|
| EMU45HSC Run winding resistance | 6.70 OHMS | 115 Volt Water valve coil resistance | 335 OHMS |
| | | 115 Volt Drain pan heater | 630-661 OHMS |



Model U-CO29F



MODELS U-1075BEV, U-1075WC- Figure 6

| EMI30HER Start winding resistance | 21.2 OHMS |
|-----------------------------------|-----------|
| EMI30HER Run winding resistance | 7.9 OHMS |

Model BI-2115 - Figure 6

| EMU45HSC Start winding resistance EMU45HSC Run winding resistance | 5.60 OHMS 6.70 OHMS |
|--|------------------------|
| 115 Volt Ice maker heater resistance | 80 OHMS |
| 115 Volt Water valve coil resistance | 335 OHMS |
| 115 Volt Drain pan heater | 630-661 OHMS |

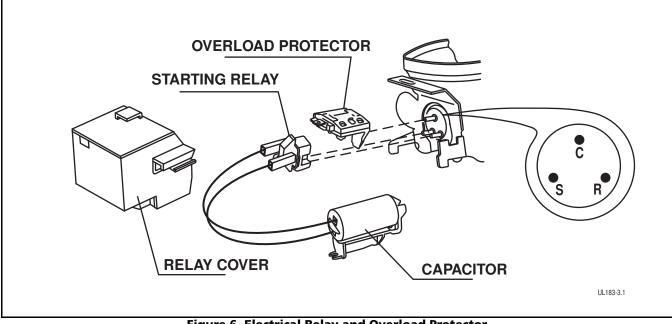


Figure 6. Electrical Relay and Overload Protector Models U-1075BEV, U-1075WC & BI-2015

ICE MAKER OPERATING CYCLES

Freeze Cycle (Figure 7)

- Temperature control terminals 2 and 3 are closed.
- Power to the compressor.
- Power to the condenser fan.

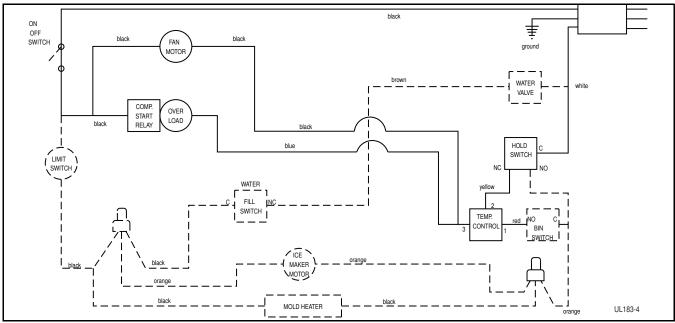


Figure 7. Freeze Cycle

Harvest-1 Cycle (Figure 8

- Temperature control terminals 2 and 3 are open 2 and 1 close.
 - 1 close.to the ice maker motor. If bin arm is up, the ice makerNo power to the compressor or condenser fan.will not harvest.

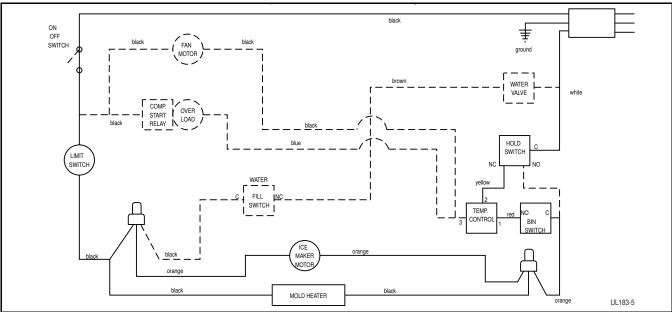


Figure 8. Harvest-1 Cycle (Hold Switch in Normal Position)

• If bin arm is down, power goes through bin arm switch

٠



Harvest-2 Cycle (Figure 9)

- Ice maker ejector blades reach approximately 2:00 position and cam depresses the hold switch. Power goes through the hold switch to the ice maker motor and mold heater.
- Ejector blades stall on ice and ice maker motor pulsates until mold heater warms and ice releases.

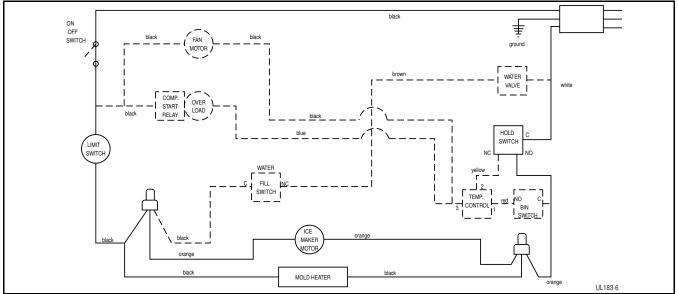


Figure 9. Harvest-2 Cycle (Hold Switch in Switched Position)

Water Fill Cycle (Figure 10)

- Ice maker ejector blades reach approximately 10:00 position and cam depresses the water fill switch.
- Power to the water valve. Ice maker mold fills.

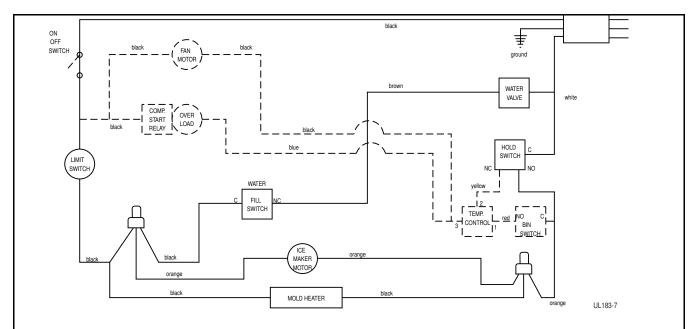


Figure 10. Water Fill Cycle

Eject Cycle

- Ejector blades push ice into bucket and stop at 12:00 position.
- Temperature control terminals 2 and 3 have closed during harvest cycle.
- Next freeze cycle begins with power to the compressor and condenser fan.



ICE MAKER OPERATING CYCLES (U-CO29F MODEL)

Note: The refrigeration system operates independently of the ice maker. This is a new design for U-Line. All other U-Line ice makers use a double throw control system where the unit is either in a freeze mode or harvest mode. In the U-CO29FF, the refrigeration system will cycle on and off depending on the temperature of the freezer. In most cases, this means the refrigeration system will be operating during the ice making and harvest modes. If the freezer control is set too warm, the refrigeration system may cycle off during ice making mode, slowing the ice production rate. If this happens, adjust the freezer control colder.

Freeze Cycle

- Ice maker thermostat (located behind grille) open.
- Freezer control closed and refrigeration system is operating.

Harvest Cycle - 1

- Ice maker thermostat closed.
- Refrigeration system operating.
- If bin arm is up, the harvest will not initiate.
- Power goes through the bin switch to the ice maker motor and mold heater.

Harvest Cycle - 2

- Ice maker ejector blades reach 2:00 position and cam depresses the hold switch.
- Ejector blades stall on ice and ice maker motor pulsates until mold heater warms and ice releases.
- Refrigeration system operating.

Water Fill Cycle

- Ice maker blades reach approximately 10:00 position and cam depresses the water fill switch.
- Power to the water valve. Ice maker mold fills.
- Refrigeration system operating.

Eject Cycle

- Ejector blades push ice into bucket and stop at 12:00 position.
- Ice maker temperature control opens.
- Refrigeration system still operating.

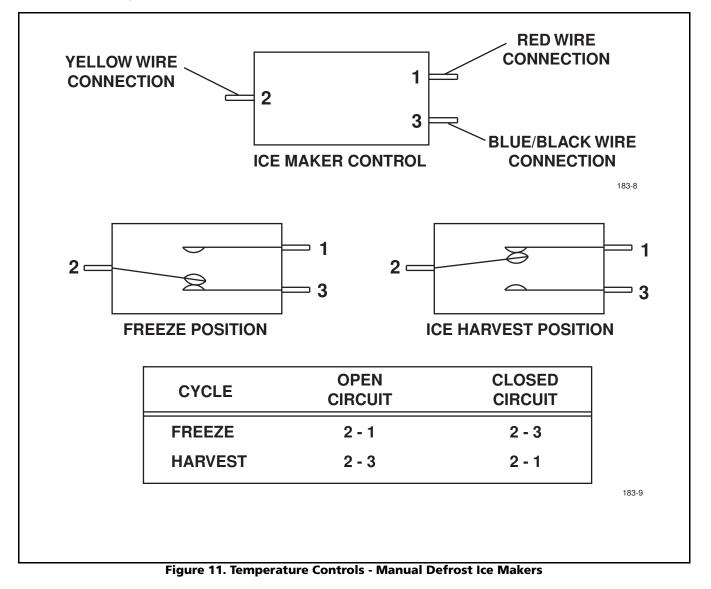


TEMPERATURE CONTROL SPECIFICATIONS

Double Throw Ice Maker Thermostat Numbers 4548, AR-19-12, 2636, 2690, 2691, 2717

These temperature controls are double throw, single pole controls. The sensing tube is inserted into the ice maker

mold and senses mold temperature. After ice is sensed in the mold, the 2-3 contacts open (stopping the compressor) and the 2-1 contacts are closed (starting the ice maker motor). The 2-3 contacts close (2-1 contacts open) before the end of the ice harvest cycle. The hold switch prevents power going back to the compressor. This prepares the control for the next cycle



LIMIT SWITCH SPECIFICATIONS

- Normally closed Bi-metal switch
- Open temperature: 104°F
- Close temperature: 83°F

The function of this switch is to open in the event of an overheating condition. This bi-metal thermostat is normally closed and does not initiate the ice harvest cycle. The ice harvest cycle is initiated by a double throw, single pole temperature located remotely from the ice maker assembly.

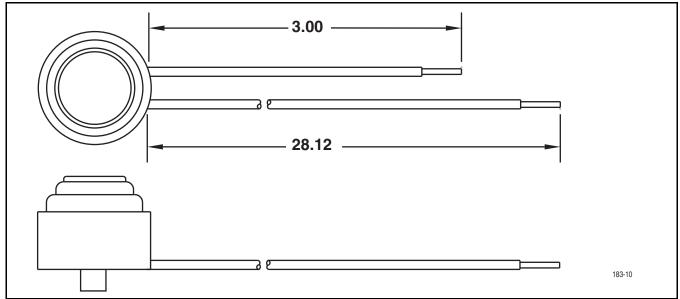


Figure 12. Limit Switch



REPLACING ICE MAKER ASSEMBLY (CO29F ONLY)

- 1. Unplug the unit from the main power source.
- 2. Disconnect ice maker wire harness at plug (1).
- 3. Remove control capillary tube from sensing tube on ice maker assembly (2).
- 4. Remove water inlet tube.
- 5. Remove front cover (3).
- 6. Advance the ejector blade to the 3 o'clock position by turning the 5/16" hex head on the small brass gear counterclockwise (4).

- 7. Remove three screws from wall of freezer housing (5).
- 8. Remove ice maker assembly.
- 9. Place new ice maker assembly into position and secure with three screws (5).
- 10. Reconnect wire harness at plug.
- 11. Insert control capillary tube into ice maker sensing tube.
- 12. Insert water inlet tube.
- 13. Apply Permagum® to all exit holes.
- 14. Install back panel.
- 15. Plug in unit and test.

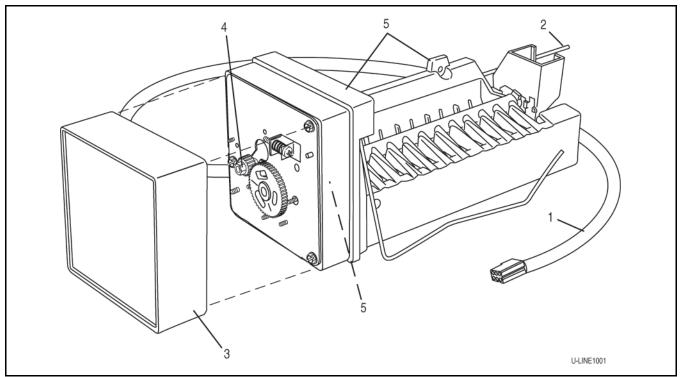


Figure 13. Ice Maker Assembly

REPLACING ICE MAKER ASSEMBLY (ALL MODELS EXCEPT CO29F)

- 1. Remove back panel.
- 2. Disconnect all wires at bell connectors (5 wires-Models 95, 98 or SP18; or Plug-Models BI2115, CO29A or CO1175).
- 3. Remove capillary tube from sensing tube on ice maker assembly.
- 4. Remove water inlet tube.
- 5. Advance ejector blades to the 3:00 position.
- 6. Remove screws from the side wall of evaporator.
- 7. Remove screws from the bottom of the evaporator plate.
- 8. Remove ice maker assembly from evaporator shelf.
- 9. Clean alumilastic from evaporator shelf.
- 10. Apply 1/4" layer of fresh alumilastic to heater side of new ice maker.
- 11. Replace parts in reverse order of removal.

- 12. Reconnect all wires.
- 13. Insert capillary tube into ice maker sensing tube.
- 14. Insert water inlet tube.
- 15. Apply permagum to all exit holes. Mount back panel.
- 16. Mount the back panel.

REPLACING MOLD AND HEATER ASSEMBLY (figure 14)

- 1. Remove ice maker assembly as described previously on this page.
- 2. Remove one stripper screw (1) and stripper.
- 3. Remove three face plate screws (2) and face plate.
- 4. Remove one screw (3) and detach limit switch from mold.
- 5. Detach heater leads (4).
- 6. Remove two screws (5) and mold from support housing.
- 7. To reassemble, replace parts in reverse order.
- 8. Install the ice maker assembly.

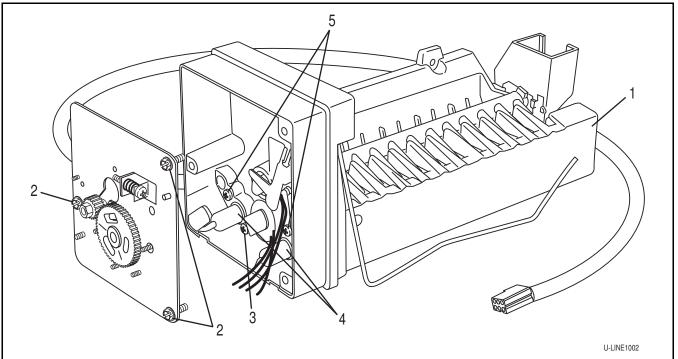


Figure 14. Mold and Heater Assembly



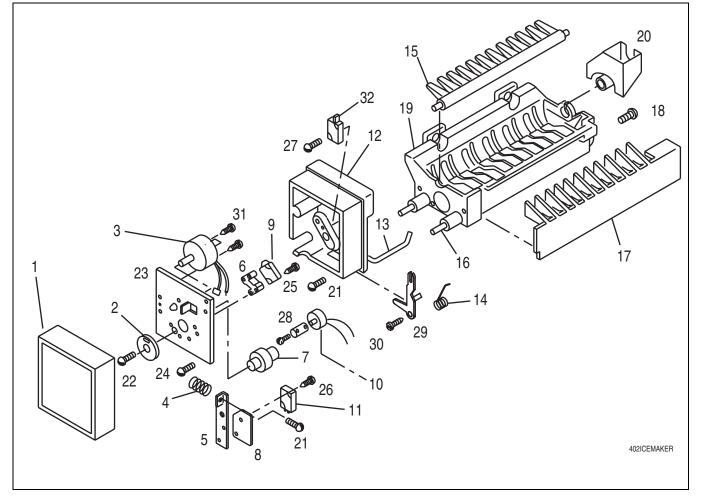
220 VOLT CONVERSION LIST

All models listed in this manual are equipped to run on 110/115 volt. The conversion kit parts listed here can be used to convert the following models to 220 volt:

- ULN-SP18
- ULN-95
- ULN-98
- SS-1095
- U-CO29A
- U-CO1175

| 110V P/N | 220 P/N | Description |
|-------------|----------|--|
| 5263-S | 5195 | Fan motor |
| 80-39015-00 | 628109 | I.M motor (ice makers) |
| 625843-S | 626069-S | Mold heater |
| 628123-5 | 618 | Mold heater assembly |
| 402 | 619 | lce maker assembly - Models SP18, 95, 98 |
| | 620 | Ice maker assembly - Models C029A, CO1175 |
| 2552A | 2555A | Water valve |
| 5402-S | 5404-S | Compressor (ice makers) |
| 150 | 650 | Faceplate assembly |
| 5414 | 5418 | Relay |
| 5413 | 5417 | Overload |



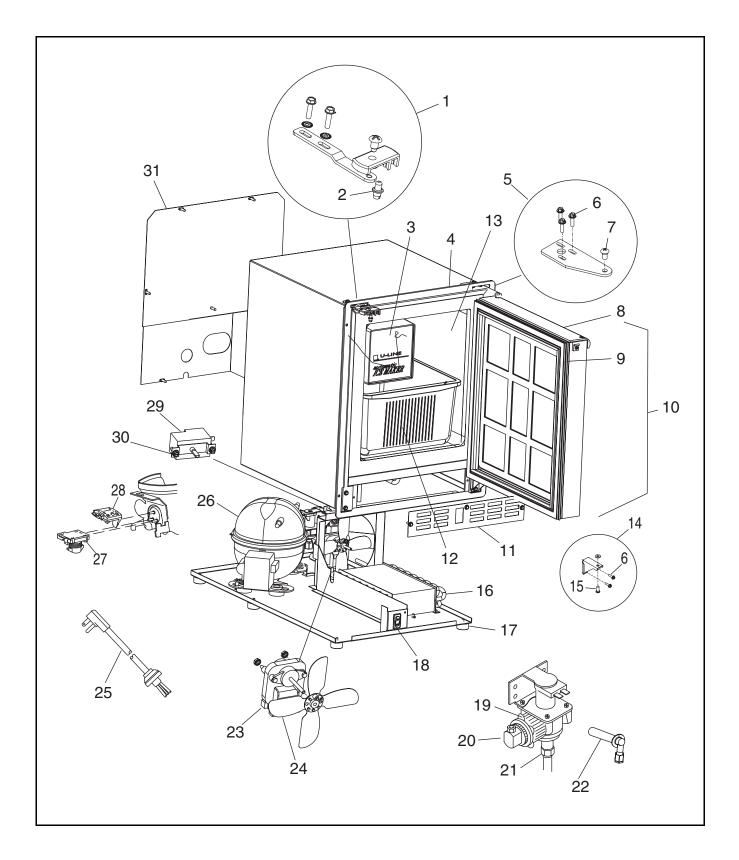




MODEL 402 ICE MAKER - MODELS SP18, 95, 98 & SS-1095

| Item | Part No. | Description | ltem | Part No. | Description |
|------|--------------|---------------------|--------------|-------------------|----------------------------|
| - | 402 | Ice Maker Assembly | 19 | 628123-S | Mold & Heater Assembly |
| - | 150 | Faceplate Assembly | 20 | 544304 | Water Cup |
| 1 | 627000 | Cover | 21 | 488372*†* | Screw, spring & housing |
| 2 | 628210*† | Gear | 22 | 488957*† | Screw, gear |
| 3 | 80-39015-00* | Motor | 23 | 11641*† | Faceplate |
| 4 | 627163*† | Spring | 24 | 41375 | Screw, plate |
| 5 | 625836*† | Valve, switch plate | 25 | 488361* | Screw, long, hold switch |
| 6 | 31403*† | Spacer, hold switch | 26 | 488362* | Screw, short, valve switch |
| 7 | 627302*† | Cam | 27 | 488360 | Screw, bin switch |
| 8 | 627680*† | Insulator | 28 | 625829 | Clamp |
| 9 | 2506* | Hold switch | 29 | 625830 | Arm lever |
| 10 | 2579 | Limit switch | 30 | 627199 | Screw, arm lever |
| 11 | 2506* | Valve switch | 31 | 488622*† | Screw, motor |
| 12 | 625827 | Support housing | 32 | 2506 | Bin switch |
| 13 | 2603 | Bin arm | | 628109 | 220V Motor |
| 14 | 627526 | Spring, bin arm | | 626069-S | 220V Mold Heater |
| 15 | 627375 | Ejector | | 618 | 220V Mold & Heater |
| 16 | 625843-S | Mold heater | | | Assembly |
| 17 | 31400 | Stripper | | 650 | 220V Faceplate Assembly |
| 18 | 489128 | Screw, stripper | | 619 | 220V Ice Maker Assembly |
| | | | Not | 2181 | Wiring harness |
| | | | shown | | |
| | | | Not shown | 5911E | Alumalastic |
| | | | * Included | in #150 face plat | te assembly |
| | | | † Included | in #80-39015-00 | motor. |
| | | | | | |
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MODEL SP18



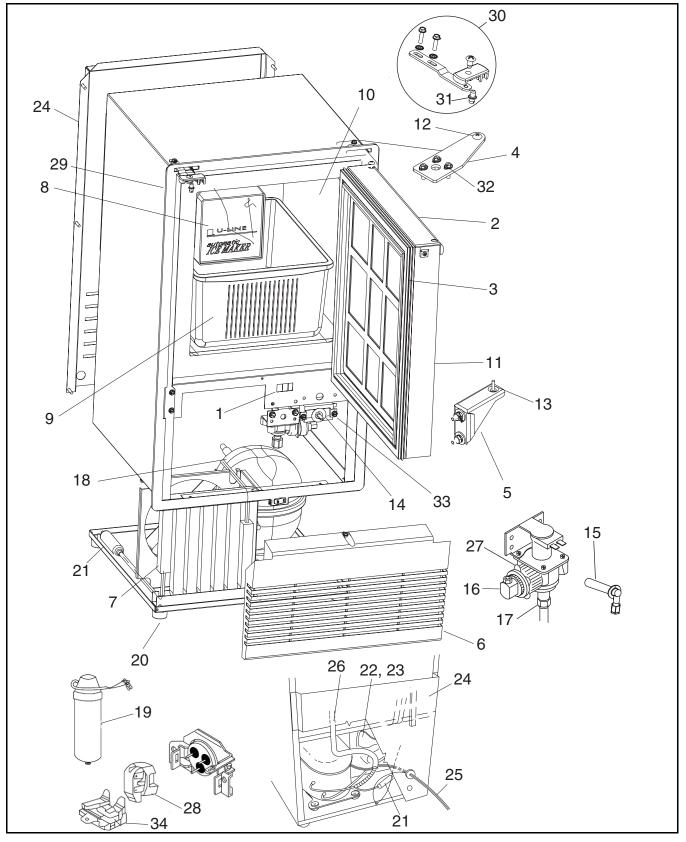


MODEL SP18

| Item | Part No. Black | Part No. White | Description | |
|---------|--------------------------|---------------------------|---|--|
| 1 | SP18B-TRAVELPIN | SLV-TRAVEL-PIN | Travel Pin Assembly | |
| 2 | 31476-BLK | 31476-SS | Pin only | |
| 3 | 402 | 402 | Ice Maker Assembly (see page 2 for parts) | |
| 4 | SP18B-FRAME | SP18-FRAME | Trim frame (includes rivets) | |
| 4 5 | 11698-SSB-S | 11698-SS-S | Trim Trame (includes rivets) Hinge Assembly, top (includes screws) | |
| 6 | 41915 | 41915 | | |
| 6 7 | 41915 41747-SSB | 41915 41747-SSS | Screw | |
| 8 | 31489-1-BLK | 41747-333 11777 | Pivot screw, top Door handle | |
| 8 9 | 31493-1-GRY | 31493-1-WHT | Gasket, door | |
| 9 10 | | | | |
| 10 | 95-DOORBG SP18-GRILLE | WH95M-DOOR SP18-GRILLE | Door Assembly Grille Assembly (includes screws) | |
| 12 | 31429 | 31429 | lce bucket | |
| 12 | 2182-S18-BLK | 2182-S18-KIT | Evaporator Assembly (includes drier and process tube) | |
| 13 | 11696-SSB-S | 11696-SS-S | Hinge Assembly, bottom (includes screws) | |
| 14 | 41785-SSB | 41747-SSS | Pivot Screw, bottom | |
| 15 | 2258-S | 2258-S | Condenser Assembly (includes drier and process tube) | |
| 10 | 41125 | 41125 | Feet, cabinet | |
| 17 | 2053 | 2053 | On/Off switch | |
| 18 | 2055 2552A | 2055 2552A | Water valve | |
| 20 | 41826 | 41826 | Brass fitting, 90° | |
| 20 | 41254 | 41254 | Plastic Nut & Sleeve Assembly | |
| 21 | 404-SP18 | 404-SP18 | Fill Tube Assembly | |
| 22 | 5263-S | 5263-S | Fan motor | |
| 23 | 5188 | 5188 | Fan blade | |
| 24 | 2264 | 2264 | Power cord | |
| 25 | 5402-S | 5402-S | Compressor Assembly (includes compressor grommet, | |
| 20 | J+02-J | relay, | relay, overload, drier and process tube) | |
| 27 | 5414 | 5414 | Relay | |
| 28 | 5413 | 5413 | Overload | |
| 29 | 2783 | 2783 | Control | |
| 30 | 41893-ZP | 41893-ZP | Screw, control | |
| 31 | 11811 | 11811 | Back panel | |
| Not | 2693 | 2693 | Drier | |
| Shown | | | | |
| Not | 2800 | 2800 | Process tube | |
| Shown | | | | |
| Not | 31021 | 31021 | Grommet, compressor | |

MODEL ULN-95 (1 OF 2)

BI95B, BI95WH, BCM95



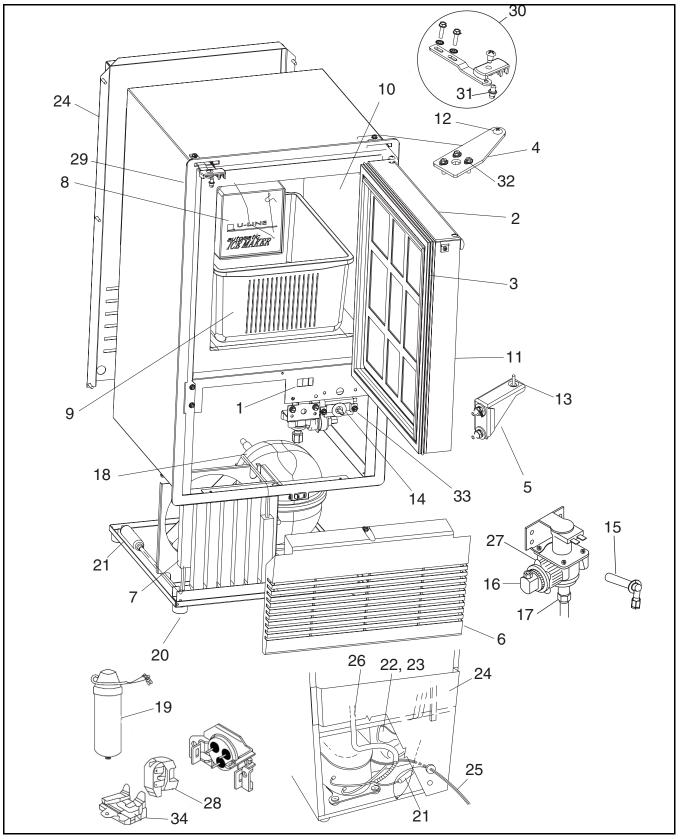
MODEL ULN-95 (1 OF 2)

BI95B, BI95WH, BCM95

| Item | Part No. BI95B | Part No. BI95WH | Part No. BCM95 | Description |
|--------------|-------------------|--------------------|-------------------|--|
| 1 | 2053 | 2053 | 2053 | On/Off switch |
| 2 | 31489-1-BLK | 31489-1-KIT | 31489-1-BLK | Door handle |
| 3 | 31493-1-GRY | 31493-1-WHT | 31493-1-GRY | Gasket, door |
| 4 | 11697-ST-BLK | 11697-ST-KIT | 11697-ST-BLK | Hinge, top |
| 5 | 11695-S-BLK | 11695-S-KIT | 11695-S-BLK | Hinge, bottom |
| 6 | 11662-BLK | 11662-KIT | 11662-BLK | Grille |
| 7 | 2628-S | 2628-S | 2628-S | Condenser Assembly |
| 8 | 402 | 402 | 402 | Ice Maker Assembly (see page 2 for parts) |
| 9 | 31429 | 31429 | 31429 | lce bucket |
| 10 | 2182-S-BLK | 2182-S-KIT | 2182-S-BLK | Inner Liner Assembly/ Evaporator |
| 11 | 95-DOORBLK | 95-DOORKIT | 80-17112-01 | Door Assembly |
| 12 | 41785-SSB | 41785-SSW | 41785-SSB | Pivot screw, top |
| 13 | 41747-SSB | 41747-SSW | 41747-SSB | Pivot screw, bottom |
| 14 | 2783 | 2783 | 2783 | Control |
| 15 | 404-95 | 404-95 | 404-95 | Fill Tube Assembly |
| 16 | 405 | 405 | 405 | Brass Fitting Assembly |
| 17 | 41254 | 41254 | 41254 | Plastic Nut & Sleeve Assembly |
| 18 | 5401-S | 5401-S | 5401-S | Compressor |
| 19 | 71005 | 71005 | 71005 | Capacitor |
| 20 | 41125 | 41125 | 41125 | Foot, cabinet |
| 21 | 2964 | 2964 | 2964 | Dryer |
| 22 | 5263-S | 5263-S | 5263-S | Fan motor |
| 23 | 5188 | 5188 | 5188 | Fan blade |
| 24 | 11444 | 11444 | 11444 | Back panel |
| 25 | 1855-1 | 1855-1 | 1855-1 | Power cord |
| 26 | 31154 | 31154 | 31154 | Insulator Tube Armaflex |
| 27 | 2552A | 2552A | 2552A | Water valve |
| 28 | 71004 | 71004 | 71004 | Relay |
| 29 | N/A | N/A | 11714-BLK | Trim Frame |
| 30 | N/A | N/A | BL-TRAVEL-PIN | Travel Pin Assembly |
| 31 | N/A | N/A | 31476-BLK | Travel pin only |
| 32 | 41893-BLK | 41893-ZP | 41893-BLK | Screw, hinge |
| 33 | 41893-ZP | 41893-ZP | 41893-ZP | Screw, control |
| 34 | 71603 | 71603 | 71603 | Overload |
| Not Shown | 2819 | 2819 | 2819 | Process Tube |
| Not Shown | 31021 | 31021 | 31021 | Grommet, compressor |

MODEL ULN-95 (2 OF 2)

BI95BTP, WH95TP, SS95



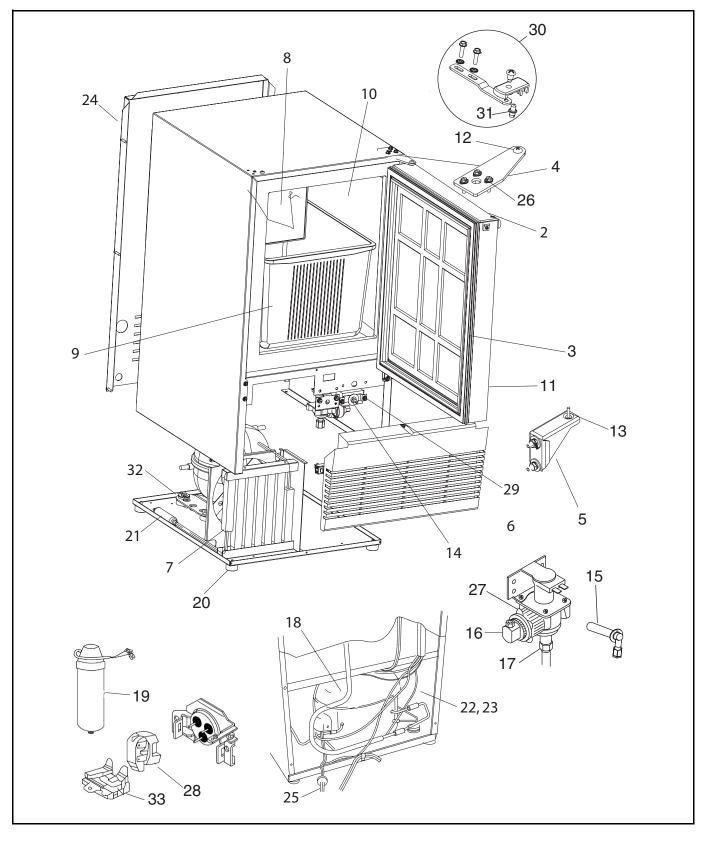
MODEL ULN-95 (2 OF 2)

BI95BTP, WH95TP, SS95

| ltem | Part No. BI95BTP | Part No. WH95TP | Part No. SS95 | Description |
|--------------|----------------------|--------------------|----------------------|-------------------------------------|
| 1 | 2053 | 2053 | 2053 | On/Off switch |
| 2 | 31489-1-BLK | 11777 | 31489-1-BLK | Door handle |
| 3 | 31493-1-GRY | 31493-1-WHT | 31493-1-GRY | Gasket, door |
| 4 | 11698-SSB-S | 11698-SS-S | 11698-SSB-S | Hinge, top |
| 5 | 11696-SSB-S | 11696-S-KIT | 11696-SSB-S | Hinge, bottom |
| 6 | 11662-BLK | 11662-SPL-KIT | 11662-BLK | Grille |
| 7 | 2628-5 | 2628-5 | 2628-5 | Condenser Assembly |
| 8 | 402 | 402 | 402 | Ice Maker Assembly |
| - | 102 | 102 | 102 | (see page 2 for parts) |
| 9 | 31429 | 31429 | 31429 | Ice bucket |
| 10 | 2182-S-BLK | 2182-S-KIT | 2182-S-BLK | Inner Liner Assembly/ Evaporator |
| 11 | 95-DOORBLK | WHT95M-DOOR | SS95-DOOR | Door Assembly |
| 12 | 41785-SSB | 41785-SSS | 41785-SSB | Pivot screw, top |
| 13 | 41747-SSB | 41747-SSW | 41747-SSB | Pivot screw, bottom |
| 14 | 2783 | 2783 | 2783 | Control |
| 15 | 404-95 | 404-95 | 404-95 | Fill Tube Assembly |
| 16 | 405 | 405 | 405 | Brass Fitting Assembly |
| 17 | 41254 | 41254 | 41254 | Plastic Nut & Sleeve Assembly |
| 18 | 5401-S | 5401-S | 5401-S | Compressor |
| 19 | 71005 | 71005 | 71005 | Capacitor |
| 20 | 41125 | 41125 | 41125 | Foot, cabinet |
| 21 | 2964 | 2964 | 2964 | Dryer |
| 22 | 5263-S | 5263-S | 5263-S | Fan motor |
| 23 | 5188 | 5188 | 5188 | Fan blade |
| 24 | 11444 | 11444 | 11444 | Back panel |
| 25 | 1855-1 | 1855-1 | 1855-1 | Power cord |
| 26 | 31154 | 31154 | 31154 | Insulator Tube Armaflex |
| 27 | 2552A | 2552A | 2552A | Water valve |
| 28 | 71004 | 71004 | 71004 | Relay |
| 29 | 11708-BLK | 11708-KIT | N/A | Trim Frame |
| 30 | BL-TRAVEL-PIN | SLV-TRAVEL-PIN | BL-TRAVEL-PIN | Travel Pin Assembly |
| 31 | 31476-BLK | 31476-SS | 31476-BLK | Travel pin only |
| 32 | 41941 | 41941 | 41941 | Screw, hinge |
| 33 | 41893-ZP | 41893-ZP | 41893-ZP | Screw, control |
| 34 | 71603 | 71603 | 71603 | Overload |
| Not Shown | 2819 | 2819 | 2819 | Process Tube |
| Not Shown | 31021 | 31021 | 31021 | Grommet, compressor |

MODEL ULN-98

BI98B, BI98WH, SS98



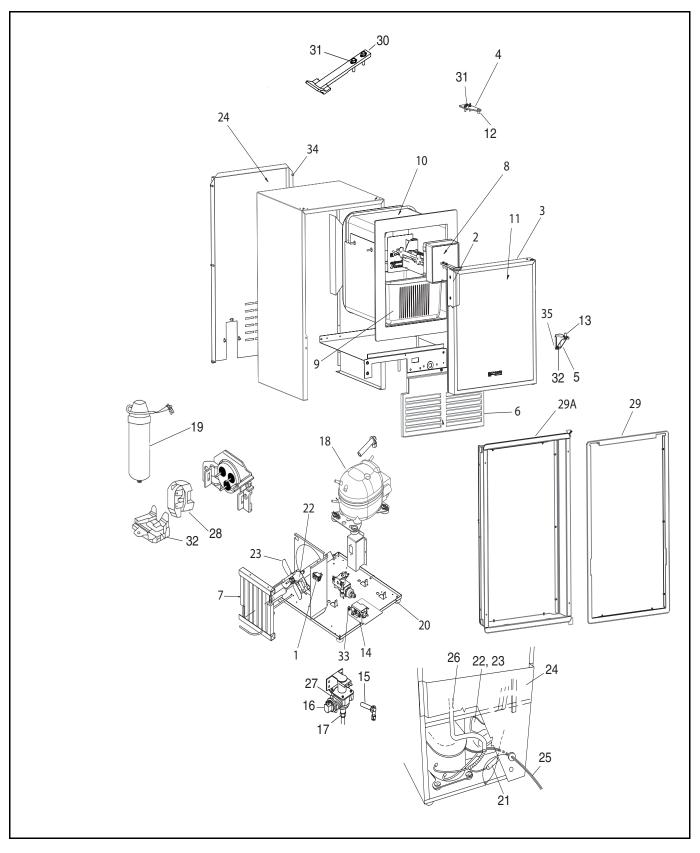


MODEL ULN-98

BI98B, BI98WH, SS98

| ltem | Part No. BI98B | Part No. BI98WH | Part No. SS98 | Description |
|--------------|-------------------|--------------------|------------------|--|
| 1 | 2053 | 2053 | 2053 | On/Off switch |
| 2 | 31489-2-BLK | 31489-2-KIT | 31489-2-BLK | Door handle |
| 3 | 31493-2-GRY | 31493-2-WHT | 31493-2-GRY | Gasket, door |
| 4 | 11697-ST-BLK | 11697-ST-KIT | 11698-SSB-S | Hinge, top |
| 5 | 11695-S-BLK | 11695-S-KIT | 11696-SSB-S | Hinge, bottom |
| 6 | 11661-BLK | 11661-KIT | 11661-BLK | Grille |
| 7 | 2628-S | 2628-S | 2628-S | Condenser Assembly |
| 8 | 402 | 402 | 402 | Ice Maker Assembly (see page 2 for parts) |
| 9 | 31430 | 31430 | 31430 | lce bucket |
| 10 | 2183-S-BLK | 2183-S-KIT | 2183-S-SS | Inner Liner Assembly/ Evaporator |
| 11 | 98-DOORBLK | 98-DOORKIT | SS98-DOOR | Door Assembly |
| 12 | 41785-SSB | 41785-SSW | 41785-SSB | Pivot screw, top |
| 13 | 41747-SSB | 41747-SSW | 41747-SSB | Pivot screw, bottom |
| 14 | 2783 | 2783 | 2783 | Control |
| 15 | 404-98 | 404-98 | 404-98 | Fill Tube Assembly |
| 16 | 405 | 405 | 405 | Brass Fitting Assembly |
| 17 | 41254 | 41254 | 41254 | Plastic Nut & Sleeve Assembly |
| 18 | 5401-S | 5401-S | 5401-S | Compressor |
| 19 | 71005 | 71005 | 71005 | Capacitor |
| 20 | 41125 | 41125 | 41125 | Foot, cabinet |
| 21 | 2964 | 2964 | 2964 | Dryer |
| 22 | 5263-S | 5263-S | 5263-S | Fan motor |
| 23 | 5188 | 5188 | 5188 | Fan blade |
| 24 | 11443 | 11443 | 11443 | Back panel |
| 25 | 1855-1 | 1855-1 | 1855-1 | Power cord |
| 26 | 41893-BLK | 41893-ZP | 41941 | Screw, hinge |
| 27 | 2552A | 2552A | 2552A | Water valve |
| 28 | 71004 | 71004 | 71004 | Relay |
| 29 | 41893-ZP | 41893-ZP | 41893-ZP | Screw, control |
| 30 | N/A | N/A | BL-TRAVEL-PIN | Travel Pin Assembly |
| 31 | N/A | N/A | 31476-BLK | Travel pin only |
| 32 | 31021 | 31021 | 31021 | Grommet |
| 33 | 71603 | 71603 | 71603 | Overload |
| Not Shown | 2800 | 2800 | 2800 | Process tube |

MODEL SS-1095



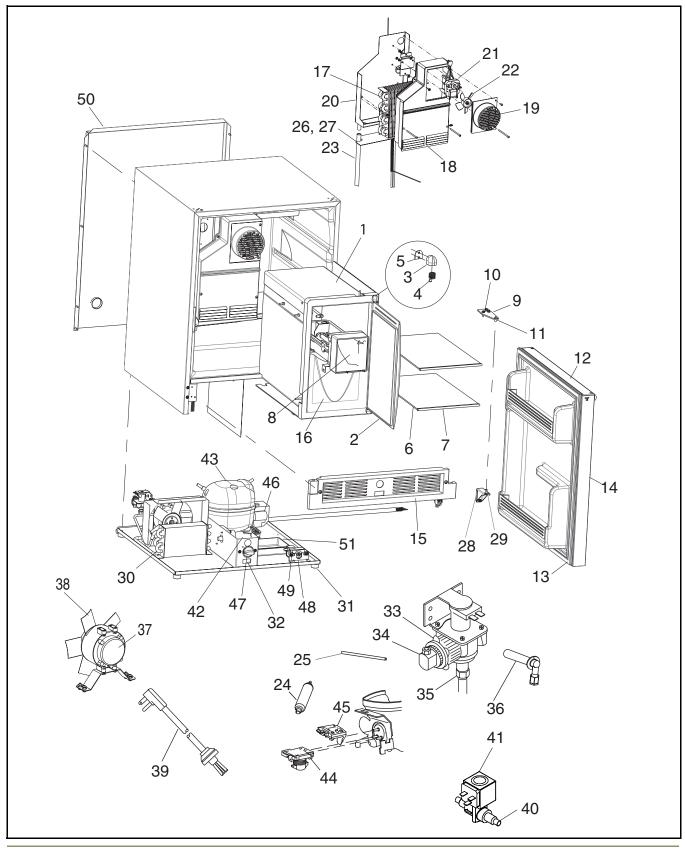


MODEL SS-1095

| Item | Part No. | Description | | | |
|--------------|-----------------|--|--|--|--|
| 1 | 2053 | On/Off switch | | | |
| 2 | 14206-S | Door handle | | | |
| 3 | 31493-1-GRY | Gasket, door | | | |
| 4 | 11698-SS-S | Hinge, top | | | |
| 5 | 11696-SS-S | Hinge, bottom | | | |
| 6 | 80-29017-02 | Grille, flush with door | | | |
| | 80-29017-01 | Grille, flush with cabinet & no frame | | | |
| 7 | 2628-S | Condenser Assembly | | | |
| 8 | 402 | Ice Maker Assembly (see page 2 for parts) | | | |
| 9 | 31429 | lce bucket | | | |
| 10 | 2182 | Inner Liner Assembly/ | | | |
| | | Evaporator | | | |
| 11 | 80-17106-03 | Door Assembly | | | |
| 12 | 41785-SS | Pivot screw, top | | | |
| 13 | 41747-SS | Pivot screw, bottom | | | |
| 14 | 2783 | Control | | | |
| 15 | 404-95 | Fill Tube Assembly | | | |
| 16 | 405 | Brass Fitting Assembly | | | |
| 17 | 41254 | Plastic Nut & Sleeve | | | |
| | | Assembly | | | |
| 18 | 5401-S | Compressor | | | |
| 19 | 71005 | Capacitor | | | |
| 20 | 41125 | Foot, cabinet | | | |
| 21 | 2964 | Dryer | | | |
| 22 | 5263-S | Fan motor | | | |
| 23 | 5188 | Fan blade | | | |
| 24 | 11444 | Back panel | | | |
| 25 | 1855-1 | Power cord | | | |
| 26 | 31154 | Insulator Tube Armaflex | | | |
| 27 | 2552A | Water valve | | | |
| 28 | 71004 | Relay | | | |
| 29 | 95SS-FRAME | Frame, flush to cabinet | | | |
| 29A | 95SS-FLUSHFRAME | Frame, flush to door assembly | | | |
| 30 | 26109-S | Travel Latch Assembly | | | |
| 31 | 41941 | Screw, hinge | | | |
| 32 | 71603 | Overload | | | |
| 33 | 41893-ZP | Screw, control | | | |
| 34 | 41342 | Screw, back panel | | | |
| 35 | 41787 | Nut, bottom hinge | | | |
| Not | 31021 | Grommet | | | |
| Shown | 2910 | Process Tubo | | | |
| Not Shown | 2819 | Process Tube | | | |



MODEL U-CO29F (1 OF 2)

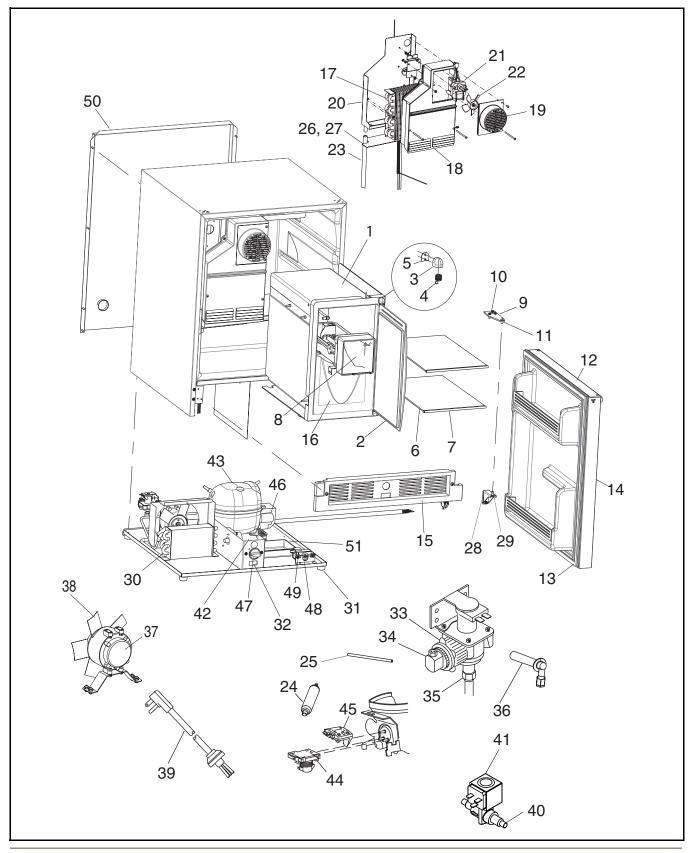




MODEL U-CO29F (1 OF 2)

| Item | Part No. Black | Part No. White | Description | |
|------|----------------|----------------|---|--|
| 1 | 80-35003-S | 80-35003-S | Freezer Housing Assembly | |
| 2 | 26069-S | 26069-S | Freezer Door Assembly | |
| 3 | 12013-S | 12013-S | Hinges, freezer door | |
| 4 | 42135 | 42135 | Spring, hinge, freezer door | |
| 5 | 42157 | 42157 | Tape, hinge, freezer door | |
| 6 | 40010-09 | 40010-09 | Glass shelf | |
| 7 | 31443-6 | 31443-6 | Trim, shelf front | |
| 8 | 402-CO29FF | 402-CO29FF | Ice Maker Assembly (see page 18 for parts) | |
| 9 | 11697-ST-BLK | 11697-ST-KIT | Hinge Assembly, top | |
| 10 | 41893-BLK | 41893-ZP | Screw, hinge | |
| 11 | 41785-SSB | 41785-SSW | Pivot screw, top | |
| 12 | 31489-3-BLK | 31489-3-KIT | Door handle | |
| 13 | 31493-3-GRY | 31493-3-KIT | Gasket, door | |
| 14 | 80-17014-01 | 80-17014-02 | Door Assembly | |
| 15 | 80-29014-01 | 80-29014-02 | Grille Assembly | |
| 16 | 26011 | 26011 | lce bucket | |
| 17 | 2334-FFS | 2334-FFS | Evaporator Assembly | |
| 18 | 11955 | 11955 | Cover, evaporator | |
| 19 | 11952 | 11952 | Cover, evaporator fan | |
| 20 | 2349 | 2349 | Drain Pan Assembly | |
| 21 | 5434 | 5434 | Fan motor, evaporator | |
| 22 | 31656 | 31656 | Fan blade, evaporator | |
| 23 | 41967-1 | 41967-1 | Drain tube | |
| 24 | 2692 | 2692 | Dryer | |
| 25 | 2800 | 2800' | Process tube | |
| 26 | 66005 | 66005 | Heater, drain pan | |
| 27 | 35014 | 35014 | Tape, drain pan heater | |
| 28 | 11695-S-BLK | 11695-S-KIT | Hinge Assembly, bottom | |
| 29 | 41747-SSB | 41747-SSW | Pivot screw, bottom | |
| 30 | 1893-FFS | 1893-FFS | Condenser Assembly | |
| | | | | |

MODEL U-CO29F (2 OF 2)

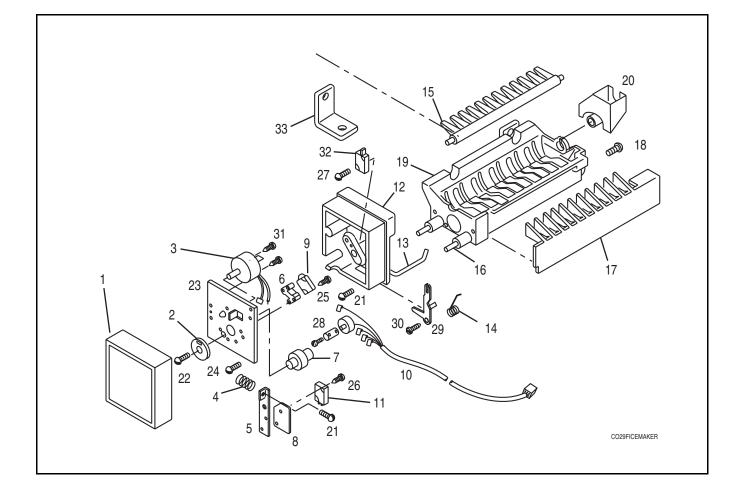




MODEL U-CO29F (2 OF 2)

| Item | Part No. Black | Part No. White | Description |
|------|----------------|----------------|-------------------------------|
| 31 | 41125 | 41125 | Foot, cabinet |
| 32 | 2053 | 2053 | On/Off switch |
| 33 | 2552A | 2552A | Water valve |
| 34 | 41826 | 41826 | Fitting, brass, 90° |
| 35 | 41254 | 41254 | Plastic Nut & Sleeve Assembly |
| 36 | 404FF | 404FF | Fill Tube Assembly |
| 37 | 5300 | 5300 | Fan motor |
| 38 | 5428 | 5428 | Fan blade |
| 39 | 2902 | 2902 | Power cord |
| 40 | 73002-FFS | 73002-FFS | Bypass Valve Assembly |
| 41 | 73002-2 | 73002-2 | Coil only, Danfoss |
| 42 | 68000 | 68000 | Defrost timer |
| 43 | 5408-FFS | 5408-FFS | Compressor Assembly |
| 44 | 71021 | 71021 | Relay |
| 45 | 71020 | 71020 | Overload |
| 46 | 71022 | 71022 | Capacitor |
| 47 | 2885-S | 2885-S | Control, refrigerator |
| 48 | 2792 | 2792 | Control, ice maker |
| 49 | 42003 | 42003 | Screw, control |
| 50 | 11545-1 | 11545-1 | Back panel |
| 51 | 31550-1-F | 31550-1-F | Drain pan |
| | | | |

MODEL 402-CO29FF

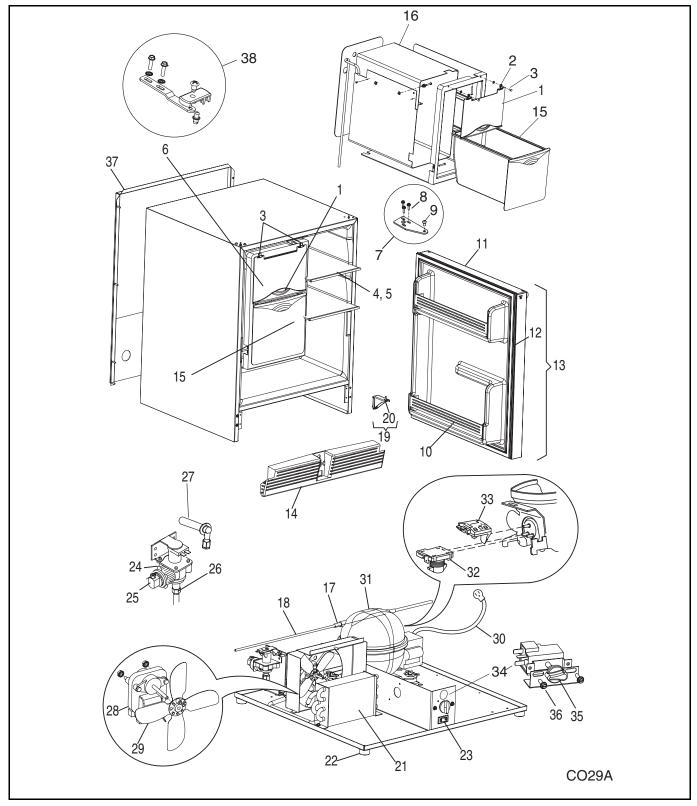




MODEL 402-CO29FF

| Item | Part No. | Description | Item | Part No. | Description |
|---------|--------------|------------------------------|--|-----------------|----------------------------|
| - | 402-29/1175 | Ice Maker Assembly | 19 | 628123-S-E29 | Mold & Heater Assembly |
| - | 150 | Faceplate Assembly | 20 | 544304 | Water Cup |
| 1 | 627000 | Cover | 21 | 488372*† | Screw, spring & housing |
| 2 | 628210* | Gear | 22 | 488957*† | Screw, gear |
| 3 | 80-39015-00* | Motor | 23 | 11641*† | Faceplate |
| 4 | 627163*† | Spring | 24 | 41375 | Screw, plate |
| 5 | 625836*† | Valve, switch plate | 25 | 488361* | Screw, long, hold switch |
| 6 | 31403*† | Spacer, hold switch | 26 | 488362* | Screw, short, valve switch |
| 7 | 627302*† | Cam | 27 | 488360 | Screw, bin switch |
| 8 | 627680* | Insulator | 28 | 625829 | Clamp |
| 9 | 2506* | Hold switch | 29 | 625830 | Arm lever |
| 9 10 | 2890** | Wire harness | 30 | 627199 | Screw, arm lever |
| 10 | 2506 | When harness Water switch | 31 | 488622*† | Screw, motor |
| | | | 32 | 2506* | Bin switch |
| 12 | 625827 | Support housing | 33 | 42166 | Support bracket |
| 13 | 2886 | Bin arm | Not | 31733 | Armaflex for sensor tube |
| 14 | 627526 | Spring, bin arm | Shown | 51755 | |
| 15 | 627375 | Ejector | | | |
| 16 | 625843-S | Mold heater | * Parts | included in 150 | faceplate assembly |
| 17 | 31400 | Stripper | * Parts included in 150 faceplate assembly. ** Includes the limit switch. | | |
| 18 | 489128 | Screw, stripper | | ded with 80-390 | |
| | | | | ueu with 60-390 | 15-00 110101. |

MODEL U-CO29A

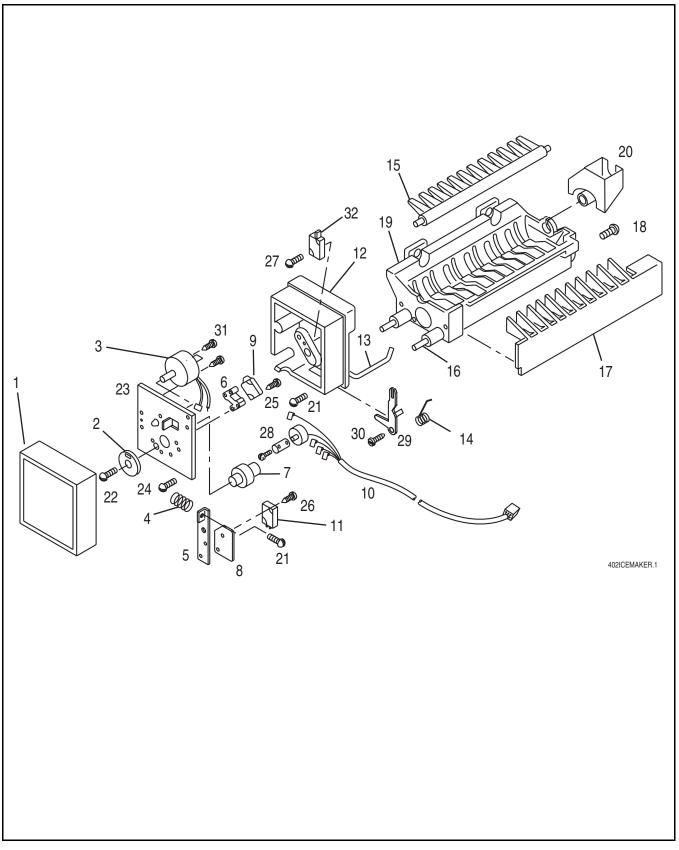




MODEL U-CO29A

| Item | U-CO29B-03 | U-CO29WH-03 | U-CO29B-00 | U-CO29WH-00 | Description |
|------|----------------|----------------|-------------|--------------|-------------------------------|
| 1 | 11957-S | 11957-S | 11957-S | 11957-S | Flap Door Assembly |
| 2 | 31463 | 31463 | 31463 | 31463 | Clamp, flap door |
| 3 | 31434-1 | 31434-1 | 31434-1 | 31434-1 | Snap rivets |
| 4 | 40010-09 | 40010-09 | 40010-09 | 40010-09 | Glass shelves |
| 5 | 31443-6 | 31443-6 | 31443-6 | 31443-6 | Trim, shelf front |
| 6 | 402-29/1175 | 402-29/1175 | 402-29/1175 | 402-29/1175 | Ice Maker Assembly |
| | | | | | (see page 4-22 for parts) |
| 7 | 11698-SSB-S | 11698-SS-S | 11697-STBLK | 11697-ST-KIT | Hinge Assembly, top |
| 8 | 41941 | 41941 | 41893-BLK | 41893-ZP | Screw, hinge |
| 9 | 41747-SSB | 41747-SSW | 41747-SSB | 41747-SSS | Pivot screw, top |
| 10 | 31521-2 | 31521-2 | 31521-2 | 31521-2 | Retainer, shelf |
| 11 | 31489-3-BLK | 11777-29 | 31489-3-BLK | 31489-3-KIT | Handle, door |
| 12 | 31493-3-GRY | 31493-3-WHT | 31493-3-GRY | 31493-3-WHT | Gasket, door |
| 13 | 80-17014-01 | 80-17031-02 | 80-17014-01 | 80-17014-02 | Door Assembly |
| 14 | 80-29014-01 | 80-29014-03 | 80-29014-01 | 80-29014-02 | Grille Assembly |
| 15 | 31687 | 31687 | 31687 | 31687 | Ice Bucket |
| 16 | 74000-75/29 | 74000-75/29 | 74000-75/29 | 74000-75/29 | Evaporator Assembly |
| 17 | 2693 | 2693 | 2693 | 2693 | Dryer |
| 18 | 2800 | 2800 | 2800 | 2800 | Process tube |
| 19 | 11696-SSB-S | 11696-S-KIT | 11695-S-BLK | 11695-S-KIT | Hinge Assembly, bottom |
| 20 | 41785-SSB | 41785-SSW | 41785-SSB | 41785-SSW | Pivot screw, bottom |
| 21 | 1893-S | 1893-S | 1893-S | 1893-S | Condenser Assembly |
| 22 | 41125 | 41125 | 41125 | 41125 | Foot, cabinet |
| 23 | 2053 | 2053 | 2053 | 2053 | On/Off switch |
| 24 | 2552A | 2552A | 2552A | 2552A | Water valve |
| 25 | 41826 | 41826 | 41826 | 41826 | Fitting, brass, 90° |
| 26 | 41254 | 41254 | 41254 | 41254 | Plastic Nut & Sleeve Assembly |
| 27 | 404FF | 404FF | 404FF | 404FF | Fill Tube Assembly |
| 28 | 5263-S | 5263-S | 5263-S | 5263-S | Fan motor |
| 29 | 5188 | 5188 | 5188 | 5188 | Fan blade |
| 30 | 2905 | 2905 | 2905 | 2905 | Power cord |
| 31 | 5402-S | 5402-S | 5402-S | 5402-S | Compressor Assembly |
| 32 | 5414 | 5414 | 5414 | 5414 | Relay |
| 33 | 5413 | 5413 | 5413 | 5413 | Overload |
| 34 | 2782 | 2782 | 2782 | 2782 | Control, refrigerator |
| 35 | 42067 | 42067 | 42067 | 42067 | Knob, control |
| 36 | 42003 | 42003 | 42003 | 42003 | Screw, control |
| 37 | 11545-1 | 11545-1 | 11545-1 | 11545-1 | Back panel |
| 38 | TRVL-PIN-CO29B | SLV-TRAVEL-PIN | N/A | N/A | Travel Pin Assembly |

MODEL 402-29/1175



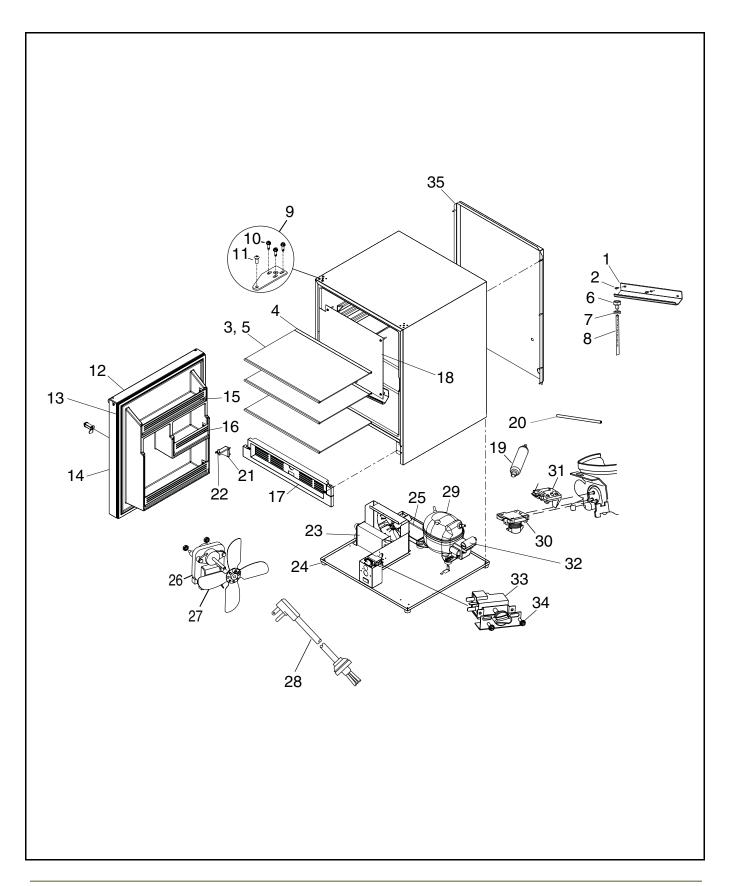


MODEL 402-29/1175

| Item Pa | rt No. | Description | Item | Part No. | Description |
|---------|--------------|-------------------------|--------------|------------------|----------------------------|
| _ | 402-29/1175 | Ice Maker Assembly | 25 | 488361* | Screw, long, hold switch |
| _ | 150 | Faceplate Assembly | 26 | 488362* | Screw, short, valve switch |
| 1 | 627000 | Cover | 27 | 488360 | Screw, bin switch |
| 2 | 628210* | Gear | 28 | 625829 | Clamp |
| 3 | 80-39015-00* | Motor | 29 | 625830 | Arm lever |
| 4 | 627163*† | Spring | 30 | 627199 | Screw, arm lever |
| 5 | 625836*† | Valve, switch plate | 31 | 488622*† | Screw, motor |
| 6 | 31403*† | Spacer, hold switch | 32 | 2506 | Bin switch |
| 7 | 627302*† | Cam | Not | 2506 | Bin switch |
| 8 | 627680* | Insulator | Shown | | |
| 9 | 2506* | Hold switch | Not | 628109 | 220V Motor |
| 10 | 2890** | Wire harness | Shown | | |
| 11 | 2506 | Water switch | Not Shown | 626069-S | 220V Mold & Heater |
| 12 | 625827 | Support housing | Not | 618 | 220V Mold & Heater Assy. |
| 13 | 2886 | Bin arm | Shown | 010 | 2200 Mold & Heater Assy. |
| 14 | 627526 | Spring, bin arm | Not | 650 | 220V Faceplate Assy. |
| 15 | 627375 | Ejector | Shown | | |
| 16 | 625843-S | Mold heater | Not | 619 | 220V Ice Maker Assy. |
| 17 | 31400 | Stripper | Shown | | |
| 18 | 489128 | Screw, stripper | Not | 5911E | Alumalastic |
| 19 | 628123-S-E29 | Mold & Heater Assembly | Shown | | |
| 20 | 544304 | Water Cup | | | |
| 21 | 488372*† | Screw, spring & housing | | | 0 faceplate assembly. |
| 22 | 488957*† | Screw, gear | | des the limit sv | |
| 23 | 11641*† | Faceplate | † Inclue | ded with 80-39 | 0015-00 motor. |
| 24 | 41375 | Screw, plate | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |



MODEL ULN-29R

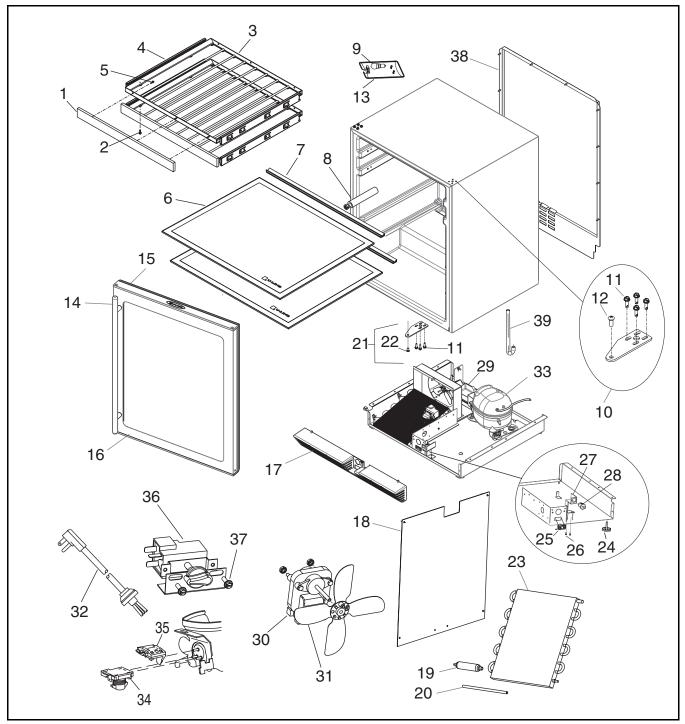




MODEL ULN-29R

| ltem | Part No. Black | Part No. White | Description |
|------|----------------|----------------|-----------------------------|
| 1 | 31391 | 31391 | Drain trough |
| 2 | 41885 | 41885 | Screws |
| 3 | 40010-08 | 40010-08 | Glass shelf, no logo |
| 4 | 25032-4 | 23052-4 | Trim, rear, glass shelf |
| 5 | 40010-07 | 40010-07 | Glass shelf, with logo |
| 6 | 11508 | 11508 | Funnel drain cup |
| 7 | 31578 | 31578 | Washer, drain tube |
| 8 | 31579 | 31579 | Drain tube |
| 9 | 11697-ST-BLK | 11697-ST-KIT | Hinge Assembly, top |
| 10 | 41893-BLK | 41893-ZP | Screw, hinge |
| 11 | 41747-SSB | 41747-SSW | Pivot screw, top |
| 12 | 31489-3-BLK | 31489-3-KIT | Door handle |
| 13 | 31493-3-GRY | 31493-3-WHT | Gasket, door |
| 14 | 29-DOORBLK | 29-DOORKIT | Door Assembly |
| 15 | 31521-2 | 31521-2 | Retainer, door shelf, long |
| 16 | 31521-3 | 31521-3 | Retainer, door shelf, short |
| 17 | 80-29014-01 | 80-29014-02 | Grille Assembly |
| 18 | 1960-S | 1960-S | Evaporator Assembly |
| 19 | 2693 | 2693 | Dryer |
| 20 | 2800 | 2800 | Process tube |
| 21 | 11695-S-BLK | 11695-S-KIT | Hinge Assembly, bottom |
| 22 | 41785-SSB | 41785-SSW | Pivot screw, bottom |
| 23 | 1893-S | 1893-S | Condenser Assembly |
| 24 | 41125 | 41125 | Foot, cabinet |
| 25 | 31550-1-F | 31550-1-F | Drain pan |
| 26 | 5263-S | 5263-S | Fan motor |
| 27 | 5188 | 5188 | Fan blade |
| 28 | 2305 | 2305 | Power cord |
| 29 | 70077-S | 70077-S | Compressor Assembly |
| 30 | 71010 | 71010 | Relay |
| 31 | 71009 | 71009 | Overload |
| 32 | 71008 | 71008 | Capacitor |
| 33 | 2766 | 2766 | Control |
| 34 | 42003 | 42003 | Screw, control |
| 35 | 11545-1 | 11545-1 | Back panel |
| | | | |

MODEL U-1075BEV

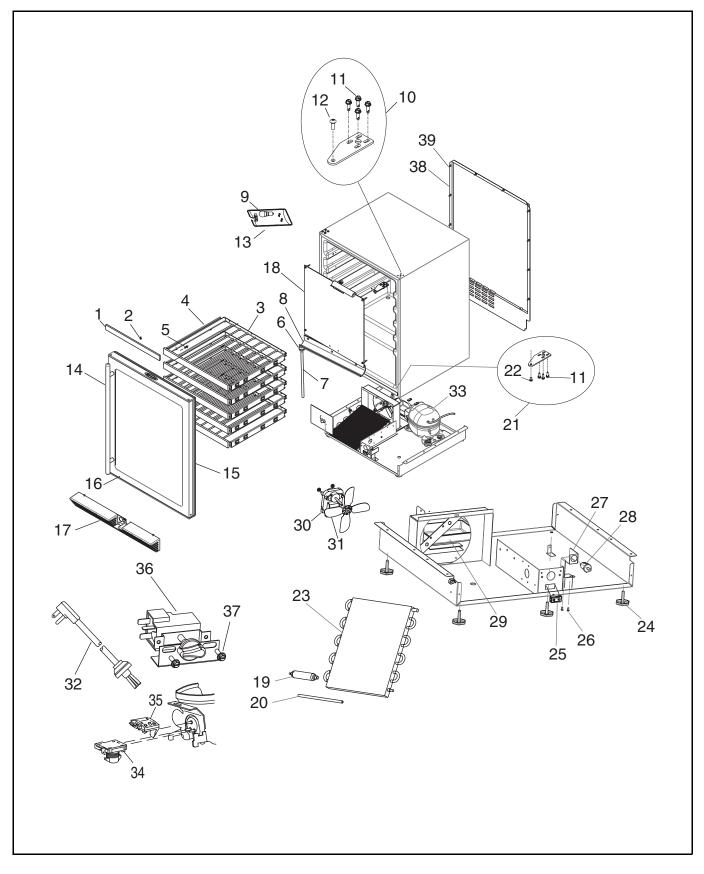




MODEL 1075BEV

| ltem | Part No. | Description | Item | Part No. | Description |
|------|-------------|---------------------------|-----------|-------------------|-----------------------------|
| 1 | 11988-03 | Wood front | 20 | 2800 | Process tube |
| 2 | 20041 | Screw | 21 | 14136-SB | Hinge Assembly, bottom |
| 3 | 18066 | Wine Rack Assembly | 22 | 41747-SSB | Pivot screw, bottom |
| 4 | 23026-03* | Slide | 23 | 1951-S | Condenser Assembly |
| 5 | 42106 | Screw (used on wood only) | 24 | 41319 | Leg, leveling |
| 6 | 40010-04 | Glass shelf | 25 | 2053 | On/Off switch |
| 7 | 25032-02 | Shelf trim, rear | 26 | 41259 | Screw, light switch bracket |
| 8 | 31154 | Armaflex | 27 | 14196 | Bracket, light switch |
| 9 | 31317 | Light bulb | 28 | 1916 | Light switch |
| 10 | 14136-ST | Hinge Assembly, top | 29 | 31550-1 | Drain pan |
| 11 | 20042-BLK | Screw, hinge | 30 | 5263-S | Fan motor |
| 12 | 41785-SSB | Pivot screw, top | 31 | 5188 | Fan blade |
| 13 | 11859 | Lens, light housing | 32 | 2315 | Power cord |
| 14 | 23011-03 | Door handle | 33 | 5400-S | Compressor Assembly |
| 15 | 31493-4-BLK | Gasket, door | 34 | 5412 | Relay |
| 16 | 80-17105-03 | Door Assembly, right-hand | 35 | 5411 | Overload |
| | 80-17105-13 | Door Assembly, left-hand | 36 | 2923 | Control (includes knob) |
| 17 | 11664 | Grille Assembly | 37 | 42003 | Screw, control |
| 18 | 2186-S | Evaporator Assembly | 38 | 11769 | Back panel |
| 19 | 2694 | Dryer | 39 | 28004 | Drain tube |
| | | | * Include | es left and right | slide & screws. |

MODEL 1075WC

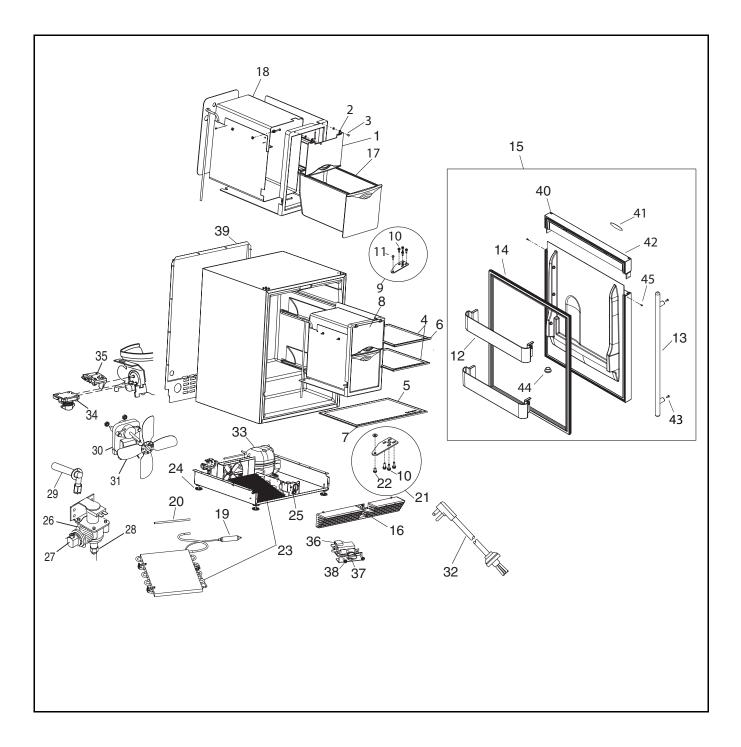




MODEL 1075WC

| ltem | Part No. | Description | Item | Part No. | Description |
|------|-------------|---------------------------|-------|-----------|-----------------------------|
| 1 | 11988-03 | Wood front | 21 | 14136-SB | Hinge Assembly, bottom |
| 2 | 4816 | Screw | 22 | 41747-SSB | Pivot screw, bottom |
| 3 | 18066 | Wine Rack Assembly | 23 | 1951-S | Condenser Assembly |
| 4 | 23026-03 | Slide Assembly (set of 2) | 24 | 41319 | Leg, leveling |
| 5 | 42106 | Screw (used on wood only) | 25 | 2053 | On/Off switch |
| 6 | 11508 | Drain cup | 26 | 41259 | Rivet, light switch bracket |
| 7 | 31579 | Drain tube | 27 | 14196 | Bracket, light switch |
| 8 | 31391-3 | Drain trough | 28 | 1916 | Light switch |
| 9 | 31317 | Light bulb | 29 | 31550-1 | Drain pan |
| 10 | 14136-ST | Hinge Assembly, top | 30 | 5263-S | Fan motor |
| 10 | 20042-BLK | Screw, hinge | 31 | 5188 | Fan blade |
| 12 | 41785-SSB | Pivot screw, top | 32 | 2315 | Power cord |
| 13 | 11859 | Lens, light housing | 33 | 5400-S | Compressor Assembly |
| 13 | 23011-03 | Door handle | 34 | 5412 | Relay |
| 15 | 31493-4-BLK | Gasket, door | 35 | 5411 | Overload |
| 15 | 80-17110-03 | Door Assembly, right-hand | 36 | 2767 | Control (includes knob) |
| 10 | 80-17110-13 | Door Assembly, left-hand | 37 | 42003 | Screw, control |
| 17 | 11664 | Grille Assembly | 38 | 11769 | Back panel |
| 18 | 2186-5 | Evaporator Assembly | 39 | 41342 | Screw, 8-32 x .62 |
| 10 | 2694 | Dryer | Not | 42125 | Hole cover, back panel |
| 20 | 2800 | Process tube | Shown | | |

U-CO1175

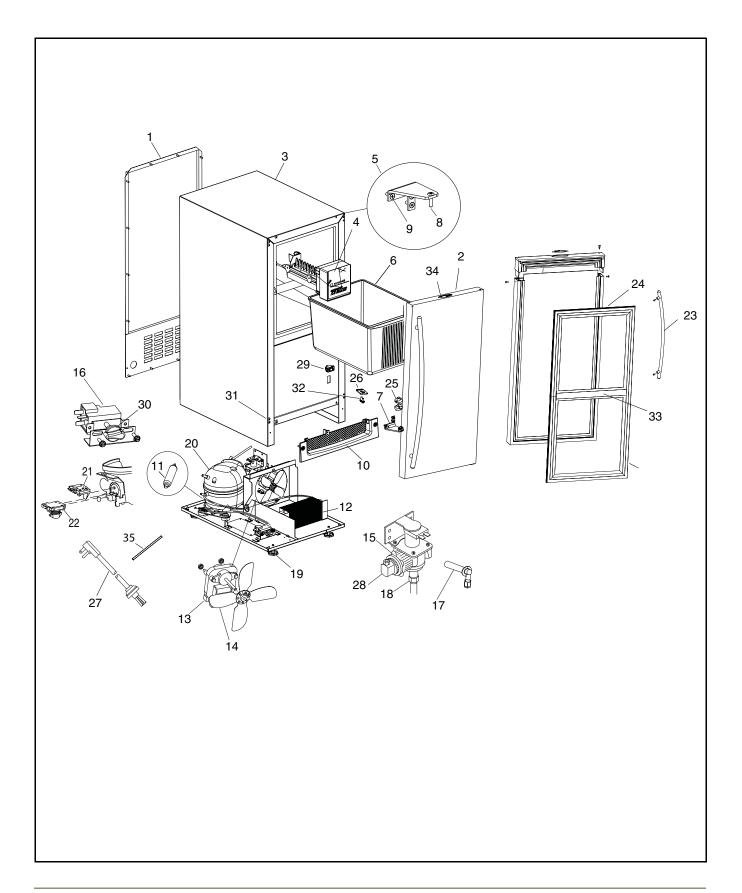




U-CO1175

| ltem | Part No. Black | Part No. Stainless Steel | Description |
|------|----------------|-----------------------------|--|
| 1 | 11957-S | 11957-S | Flap Door Assembly |
| 2 | 31463 | 31463 | Clamp, flap door |
| 3 | 31434-1 | 31434-1 | Snap rivet |
| 4 | 40010-10 | 40010-10 | Glass shelf |
| 5 | 40010-11 | 40010-11 | Glass shelf, wide |
| 6 | 31443-8 | 31433-8 | Trim, front, glass shelf |
| 7 | 31443-9 | 31433-9 | Trim, front, glass shelf, wide |
| 8 | 402-29/1175 | 402-29/1175 | Ice Maker Assembly (see page 22 for parts) |
| 9 | 11849-ST-BLK | 14136-ST | Hinge Assembly, top |
| 10 | 20042-BLK | 20042-BLK | Screw, hinge |
| 11 | 41785-SSB | 41785-SSB | Pivot screw, top |
| 12 | 26031 | 26031 | Shelf, door |
| 13 | N/A | 23011-03 | Towel Bar Handle Assembly |
| 14 | 31493-4-BLK | 31493-4-BLK | Gasket, door |
| 15 | 80-17051-11 | 80-17067-23 | Door Assembly, RH |
| | N/A | 80-17067-33 | Door Assembly, LH |
| 16 | 11664 | 11664 | Grille Assembly |
| 17 | 31687 | 31687 | lce Bucket |
| 18 | 74000-75/29 | 74000-75/29 | Evaporator Assembly |
| 19 | 2694 | 2694 | Dryer |
| 20 | 2800 | 2800 | Process tube |
| 21 | 11849-SB-BLK | 14136-SB | Hinge Assembly, bottom |
| 22 | 41747-SSB | 41747-SSB | Pivot screw, bottom |
| 23 | 1951-S | 1951-S | Condenser Assembly |
| 24 | 41319 | 41319 | Leg, leveling |
| 25 | 2053 | 2053 | On/Off switch |
| 26 | 2552A | 2552A | Water valve |
| 27 | 41826 | 41826 | Fitting, brass, 90° |
| 28 | 41254 | 41254 | Plastic Nut & Sleeve Assembly |
| 29 | 404FF | 404FF | Fill Tube Assembly |
| 30 | 5263-S | 5263-S | Fan motor |
| 31 | 5188 | 5188 | Fan blade |
| 32 | 2905 | 2905 | Power cord |
| 33 | 5402-S | 5402-S | Compressor Assembly |
| 34 | 5414 | 5414 | Relay |
| 35 | 5413 | 5413 | Overload |
| 36 | 2781 | 2781 | Control, refrigerator |
| 37 | 42067 | 42067 | Knob, control |
| 38 | 41893-ZP | 41893-ZP | Screw, control |
| 39 | 11769 | 11769 | Back panel |
| 40 | 31447-BLK | 31447-BLK | Hole Plug |
| 41 | 23029 | 23029 | Nameplate |
| 42 | 26077-01 | N/A | Handle Assembly |
| 43 | 20031 | 20031 | Screw, towel bar handle |
| 44 | 31309-BLK | 31309-BLK | Bushing |
| 45 | 41604 | N/A | Screw, handle |

MODEL BI-2115

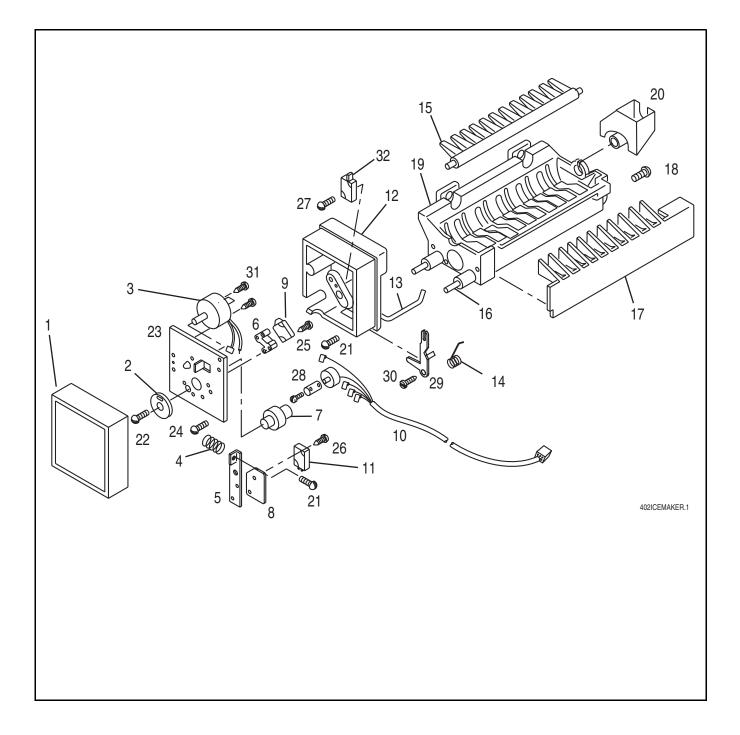




MODEL BI-2115

| Item | Part No. Black | Part No. White | Part No. Stainless Steel | Description |
|--------------|----------------|----------------|-----------------------------|---------------------------------------|
| 1 | 11964-01 | 11964-01 | 11964-01 | Back panel |
| 2 | 80-17073-01 | 80-17073-02 | 80-17073-03 | Door Assembly, RH Hinge |
| | N/A | N/A | 80-17073-13 | Door Assembly, LH Hinge |
| 3 | 80-10050-01-S | 80-10050-02-S | 80-10050-03-S | Evaporator/Cabinet Assembly |
| 4 | 402-B12015 | 402-B12015 | 402-B12015 | Ice Maker Assembly |
| | | | | (see page 32 for parts) |
| 5 | 11898-S-BLK | 11898-S-KIT | 11995-S-SS | Hinge Assembly, top, RH |
| 6 | 31430 | 31430 | 31430 | lce bucket |
| 7 | 11899-S-BLK | 11899-S-KIT | 11996-S-SS | Hinge Assembly, lower |
| 8 | 42096 | 42906 | 42906 | Pivot screw |
| 9 | 42101-BLK | 42101-ZP | 42101-SS | Screw, hinge |
| 10 | 80-29012-01 | 80-29012-02 | 80-29012-01 | Grille Assembly |
| 11 | 2694 | 2694 | 2694 | Dryer |
| 12 | 2303-02-S | 2303-02-S | 2303-02-S | Condenser Assembly |
| 13 | 5263-S | 5263-S | 5263-S | Fan motor |
| 14 | 5188 | 5188 | 5188 | Fan blade |
| 15 | 2552A | 2552A | 2552A | Water valve |
| 16 | 2780 | 2780 | 2780 | Control |
| 17 | 404-BI2X15 | 404-BI2X15 | 404-BI2X15 | Fill Tube Assembly |
| 18 | 41254 | 41254 | 41254 | Plastic Nut & Sleeve Assembly |
| 19 | 41319 | 41319 | 41319 | Leg, leveling |
| 20 | 5402-S | 5402-S | 5402-S | Compressor |
| 21 | 5413 | 5413 | 5413 | Overload |
| 22 | 5414 | 5414 | 5414 | Relay |
| 23 | 26071-01 | 26071-02 | 14160-01 | Door handle |
| 24 | 12094-04-S | 12094-06-S | 12094-05-S | Door gasket (includes #33) |
| 25 | 31673-S | 31673-S | 31673-S | Door Closer Assembly |
| 26 | 11901-1 | 11901-1 | 11994-BLK | Pivot plate |
| 27 | 2905 | 2905 | 2905-2 | Power cord |
| 28 | 41826 | 41826 | 41826 | Brass fitting, 90° |
| 29 | 2053 | 2053 | 2053 | On/Off switch |
| 30 | 42090-BLK | 42090-BLK | 42090-BLK | Knob, control |
| 31 | 41156-02 | 41156 | 41156 | Plug, threaded hole |
| 32 | 42161-ZP | 42161-ZP | 42161-ZP | Screw, pivot plate |
| 33 | 12095-04 | 12095-06 | 12095-05 | Gasket, horizontal |
| 34 | 23025 | 23025 | 23025 | Nameplate |
| 35 | 2800 | 2800 | 2800 | Process tube |
| Not Shown | N/A | N/A | 14159-01 | Commercial Handle (SS accessory only) |

MODEL 402-BI2015





MODEL 402-BI2015

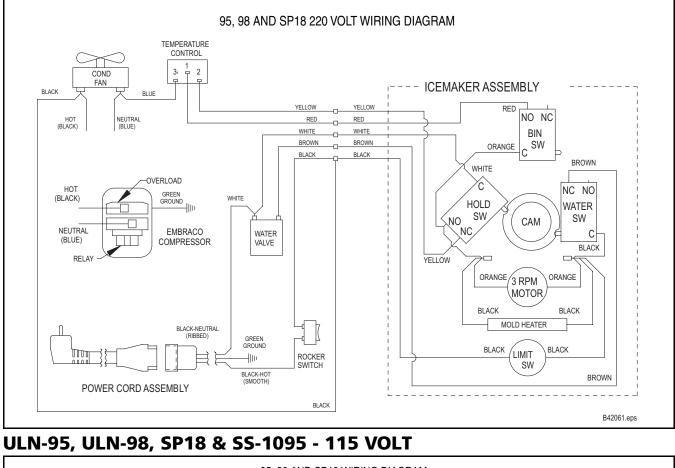
| ltem | Part No. | Description | Item | Part No. | Description |
|------|--------------|---------------------|---|----------|----------------------------|
| - | 402-BI2015 | Ice Maker Assembly | 19 | 628123-S | Mold & Heater Assembly |
| - | 150 | Faceplate Assembly | 20 | 544304 | Water Cup |
| 1 | 627000 | Cover | 21 | 488372*† | Screw, spring & housing |
| 2 | 628210*† | Gear | 22 | 488957*† | Screw, gear |
| 3 | 80-39015-00* | Motor | 23 | 11641*† | Faceplate |
| 4 | 627163*† | Spring | 24 | 41375 | Screw, plate |
| 5 | 625836*† | Valve, switch plate | 25 | 488361* | Screw, long, hold switch |
| 6 | 31403 | Spacer, hold switch | 26 | 488362* | Screw, short, valve switch |
| 7 | 627302*† | Cam | 27 | 488360 | Screw, bin switch |
| 8 | 627680* | Insulator | 28 | 625829 | Clamp |
| 9 | 2506* | Hold switch | 29 | 625830 | Arm lever |
| 10 | 2361** | Wire harness | 30 | 627199 | Screw, arm lever |
| 11 | 2506 | Water switch | 31 | 488622* | Screw, motor |
| 12 | 625827 | Support housing | 32 | 2506* | Bin switch |
| 13 | 2886 | Bin arm | | | |
| 14 | 627526 | Spring, bin arm | * Parts included in 150 faceplate assembly. | | |
| 15 | 627375 | Ejector | ** Includes the limit switch. | | |
| 16 | 625843-S | Mold heater | † Included with 89-29015-00 motor. | | |
| 17 | 31400 | Stripper | | | |
| 18 | 489128 | Screw, stripper | | | |
| | | | | | |
| | | | | | |

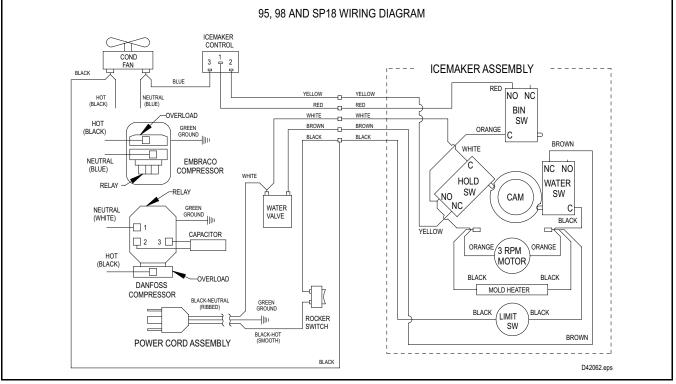


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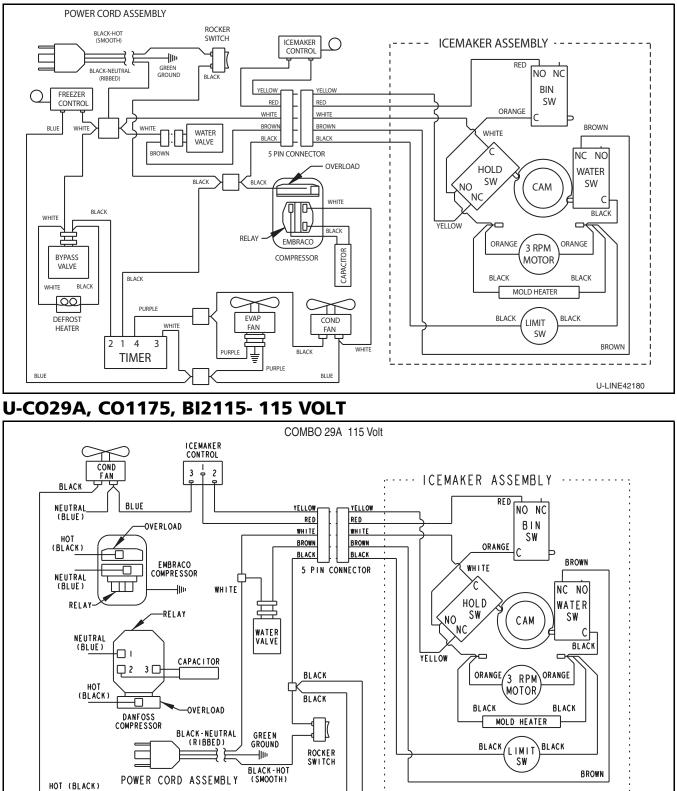


ULN-95, ULN-98, SP18 & SS-1095 - 220 VOLT





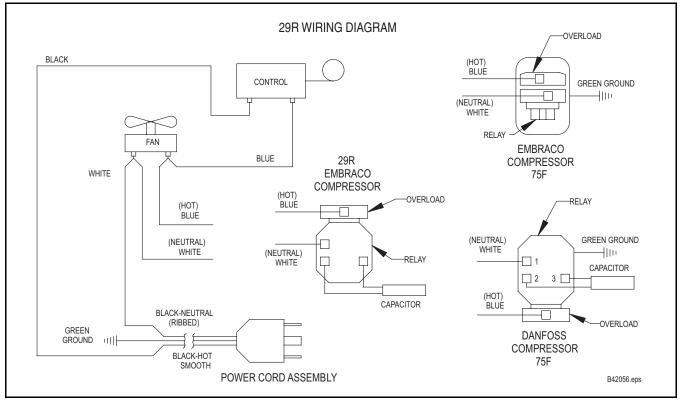
U-CO29F - 115 VOLT



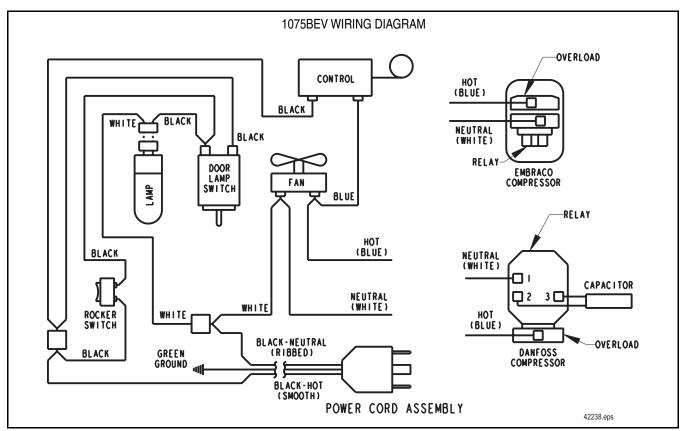
P/N 42133



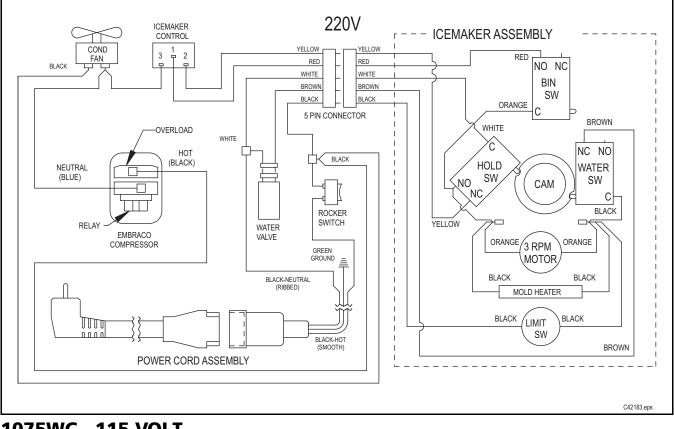
ULN-29R - 115 VOLT



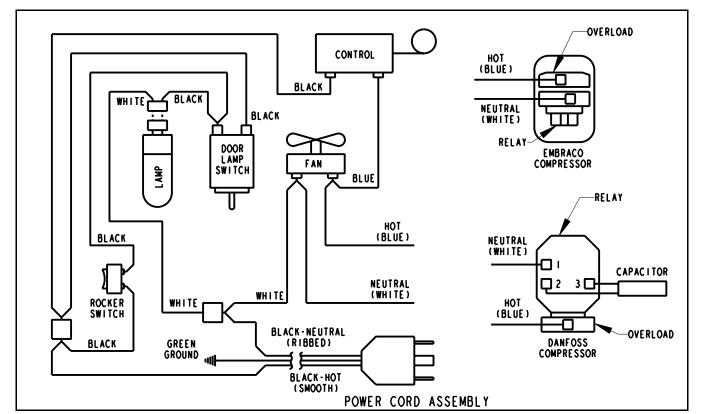
1075BEV - 115 VOLT



CO-29A, CO1175, BI-2115 - 220 VOLT



1075WC - 115 VOLT



Origins Series



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U-Line Corporation, located in Milwaukee, WI, is a family operated manufacturer of built-in undercounter ice makers, Combo® ice maker/refrigerators, Wine Captain® wine storage units, refrigerators, refrigerated drawers and refrigerator/freezers.

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