

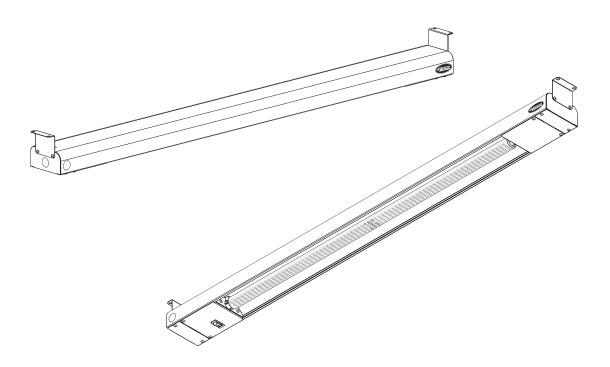




Narrow Display Light NLL Series

Installation and Operating Manual

P/N 07.04.595.00



A WARNING

Do not operate this equipment unless you have read and understood the contents of this manual! Failure to follow the instructions contained in this manual may result in serious injury or death. This manual contains important safety information concerning the maintenance, use, and operation of this product. If you're unable to understand the contents of this manual, please bring it to the attention of your supervisor. Keep this manual in a safe location for future reference.

ADVERTENCIA

No opere este equipo al menos que haya leído y comprendido el contenido de este manual! Cualquier falla en el seguimiento de las instrucciones contenidas en este manual puede resultar en un serio lesión o muerte. Este manual contiene importante información sobre seguridad concerniente al mantenimiento, uso y operación de este producto. Si usted no puede entender el contenido de este manual por favor pregunte a su supervisor. Almacenar este manual en una localización segura para la referencia futura.

A AVERTISSEMENT

Ne pas utiliser cet équipement sans avoir lu et compris le contenu de ce manuel! Le non-respect des instructions contenues dans ce manuel peut entraîner de graves blessures ou la mort. Ce manuel contient des informations importantes concernant l'entretien, l'utilisation et le fonctionnement de ce produit. Si vous ne comprenez pas le contenu de ce manuel, veuillez le signaler à votre supérieur. Conservez ce manuel dans un endroit sûr pour pouvoir vous y référer plus tard.

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IMPORTANT OWNER INFORMATION

Record the model number, serial number, voltage, and purchase date of the unit in the spaces below (specification label located on the side of the unit). Please have this information available when calling Hatco for service assistance.

Model No. ______

Serial No. _____

Voltage _____

Date of Purchase

Register your unit!

Completing online warranty registration will prevent delay in obtaining warranty coverage. Access the Hatco website at **www.hatcocorp.com**, select the *Parts & Service* pull-down menu, and click on "Warranty Registration".

Business 8:00 AM to 5:00 PM

Hours: Central Standard Time (C.S.T.)

(Summer Hours: June to September -

8:00 AM to 5:00 PM C.S.T. Monday through Thursday 8:00 AM to 2:30 PM C.S.T. Friday)

Telephone: (800) 558-0607; (414) 671-6350 E-mail: partsandservice@hatcocorp.com

Fax: (800) 690-2966 (Parts and Service)

(414) 671-3976 (International)



24 Hour 7 Day Parts and Service Assistance available in the United States and Canada by calling (800) 558-0607.

Additional information can be found by visiting our web site at **www.hatcocorp.com**.

INTRODUCTION

Hatco NLL Series Narrow Display Lights provide effective and stylish lighting for non-critical food holding and display areas. The narrow housing of the NLL Series is ideal for installation in tight spaces.

NLL Series Narrow Display Lights are products of extensive research and field testing. The materials used were selected for maximum durability, attractive appearance, and optimum performance. Every unit is inspected and tested thoroughly prior to shipment.

This manual provides the installation, safety, and operating instructions for NLL Series Narrow Display Lights. Hatco recommends all installation, operating, and safety instructions appearing in this manual be read prior to installation or operation of a unit.

Safety information that appears in this manual is identified by the following signal word panels:



WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to personal injury.



A

Read the following important safety information before using this equipment to avoid serious injury or death and to avoid damage to equipment or property.

A WARNING

ELECTRIC SHOCK HAZARD:

- Units require a hardwired connection to on-site electrical system. Connection must be properly grounded and of correct voltage, size, and configuration for electrical specifications of unit. Contact a qualified electrician to determine and install proper electrical connection.
- Turn OFF power switch, turn off power at circuit breaker, and allow unit to cool before performing any cleaning, adjustments, or maintenance.
- DO NOT submerge or saturate with water. Unit is not waterproof. Do not operate if unit has been submerged or saturated with water.
- Unit is not weatherproof. Locate unit indoors where the ambient air temperature is a minimum of 70°F (21°C).
- Do not install unit above a steam table or other steam generating appliance.
- · Do not steam clean or use excessive water on the unit.
- This unit is not "jet-proof" construction. Do not use jetclean spray to clean this unit.
- · Do not clean unit when it is energized or hot.
- Use only Genuine Hatco Replacement Parts when service is required. Failure to use Genuine Hatco Replacement Parts will void all warranties and may subject operators of the equipment to hazardous electrical voltage, resulting in electrical shock or burn. Genuine Hatco Replacement Parts are specified to operate safely in the environments in which they are used. Some aftermarket or generic replacement parts do not have the characteristics that will allow them to operate safely in Hatco equipment.

A WARNING

This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved. [Ce produit doit êter instalê selon le code d'installation pertinent, par une personne qui connaît bien le produit et son fonctionnement ainsi que les risques inhêrents.]

This unit is not intended for use by children or persons with reduced physical, sensory, or mental capabilities. Ensure proper supervision of children and keep them away from the unit.

Make sure all operators have been instructed on the safe and proper use of the unit.

Use only Hatco-approved LED light tubes that are specifically designed for food holding areas. Using LED light tubes not designed for food holding areas could result in personal injury and/or food contamination.

This unit must be serviced by qualified personnel only. Service by unqualified personnel may lead to electric shock or burn.

This unit has no "user-serviceable" parts. If service is required on this unit, contact an Authorized Hatco Service Agent or contact the Hatco Service Department at 800-558-0607 or 414-671-6350; fax 800-690-2966; or International fax 414-671-3976.

NOTICE

Use non-abrasive cleaners and cloths only. Abrasive cleaners and cloths could scratch finish of unit, marring its appearance and making it susceptible to soil accumulation.

Make sure to install LED light tube in proper orientation to prevent damage to light tube. Refer to MAINTENANCE section for details.

This unit is intended for commercial use only — NOT for household use.

MODEL DESIGNATION

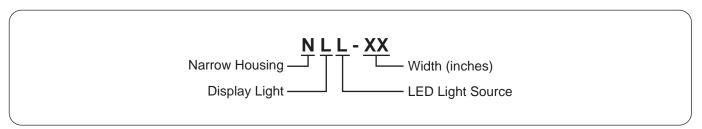


Figure 1. Model Designation



MODEL DESCRIPTION

NLL Series Narrow Display Lights consist of a narrow-style steel housing that is ideal for installation in tight spaces. They are equipped with LED (light-emitting diode) light tubes that provide bright display lighting to bring focus on the product below. Controls consist of an illuminated Power On/Off switch located on the underside of the unit on one end. Finish options include stainless steel, several powdercoated colors, gloss finishes, and plated finishes.

NLL Series Narrow Display Lights are available in widths from 30" (762 mm) to 60" (1524 mm) in six inch increments. They are supplied with mounting brackets for under-shelf mounting. Optional, non-adjustable tubular stands are available for countertop mounting (refer to the OPTIONS AND ACCESSORIES section for details).

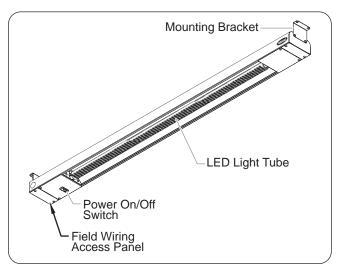


Figure 2. NLL-48 Model

SPECIFICATIONS

Electrical Rating Chart

Model	Volts	Watts	Amps	Shipping Weight
NLL-30	120	10	0.08	12 lbs. (5 kg)
NLL-36	120	10	0.08	13 lbs. (6 kg)
NLL-42	120	14	0.12	14 lbs. (6 kg)
NLL-48	120	14	0.12	15 lbs. (7 kg)
NLL-54	120	20	0.17	17 lbs. (8 kg)
NLL-60	120	20	0.17	18 lbs. (8 kg)

NOTE: Specification label located on the side of the unit. See label for serial number and verification of unit electrical information.

Dimensions

Model	Width	Depth	Height
	(A)	(B)	(C)
NLL-XX	30–60"	4"	2"
	(762–1524 mm)	(102 mm)	(51 mm)

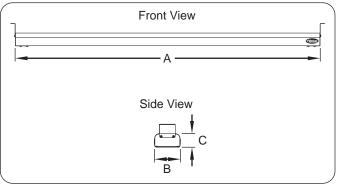


Figure 3. Dimensions



General

Use the information in this section to install a NLL Series Narrow Display Light.

A WARNING

ELECTRIC SHOCK HAZARD:

- Units require a hardwired connection to on-site electrical system. Connection must be properly grounded and of correct voltage, size, and configuration for electrical specifications of unit. Contact a qualified electrician to determine and install proper electrical connection.
- Do not install unit above a steam table or other steam generating appliance.

This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved. [Ce produit doit êter instalê selon le code d'installation pertinent, par une personne qui connaît bien le produit et son fonctionnement ainsi que les risques inhêrents.]

- 1. Remove the unit from the carton.
- NOTE: To prevent delay in obtaining warranty coverage, complete online warranty registration. See the IMPORTANT OWNER INFORMATION section for details.
- 2. Remove tape and protective packaging from all surfaces of the unit.
- 3. Install the unit in the desired location. Refer to the "Installing the Unit" procedure in this section.

NOTE: LED display lights cannot be installed over a steam table.

Installing the Unit

Use the following procedure to install the unit using the supplied mounting brackets. Refer to the OPTIONS AND ACCESSORIES section near the back of this manual for other installation options.

- Attach the included mounting brackets to each end of the unit using the screws provided.
- Fasten the mounting brackets on each end of the unit to the underside of a shelf or other overhead mounting surface using appropriate fasteners (not supplied by Hatco).
 - Make sure the unit is facing the desired direction with the wire leads on the proper side before fastening the unit to the overhead surface.

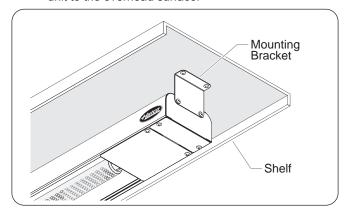


Figure 4. Under-Shelf Installation

Have a qualified electrician make the appropriate electrical connections. Refer to the wiring diagram supplied with the unit.

OPERATION

General

Use the following information to operate a NLL Series Narrow Display Light.

A WARNING

Read all safety messages in the IMPORTANT SAFETY INFORMATION SECTION before operating this equipment. Startup

 Move the Power On/Off switch to the "On" position. The LED light tube will illuminate.

Shutdown

- 1. Move the Power On/Off switch to the "Off" position.
- Perform the "Daily Cleaning" procedure in the MAINTENANCE section of this manual.

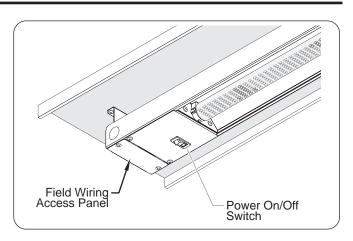


Figure 5. NLL Series Power On/Off Switch



General

NLL Series Narrow Display Lights are designed for maximum durability and performance with minimum maintenance.



ELECTRIC SHOCK HAZARD:

- Turn OFF power switch, turn off power at circuit breaker, and allow unit to cool before performing any cleaning, adjustments, or maintenance.
- DO NOT submerge or saturate with water. Unit is not waterproof. Do not operate if unit has been submerged or saturated with water.
- · Do not steam clean or use excessive water on the unit.
- This unit is not "jet-proof" construction. Do not use jetclean spray to clean this unit.
- · Do not clean unit when it is energized or hot.
- Use only Genuine Hatco Replacement Parts when service is required. Failure to use Genuine Hatco Replacement Parts will void all warranties and may subject operators of the equipment to hazardous electrical voltage, resulting in electrical shock or burn. Genuine Hatco Replacement Parts are specified to operate safely in the environments in which they are used. Some aftermarket or generic replacement parts do not have the characteristics that will allow them to operate safely in Hatco equipment.

This unit has no "user-serviceable" parts. If service is required on this unit, contact an Authorized Hatco Service Agent or contact the Hatco Service Department at 800-558-0607 or 414-671-6350; fax 800-690-2966; or International fax 414-671-3976.

Cleaning

To preserve the finish of the unit as well as maintain performance, it is recommended that the unit be cleaned daily.

NOTICE

Use non-abrasive cleaners and cloths only. Abrasive cleaners and cloths could scratch finish of unit, marring its appearance and making it susceptible to soil accumulation.

- Turn off the unit, turn off power at the circuit breaker, and allow the unit to cool.
- Wipe down all metal surfaces using a non-abrasive, damp cloth. Stubborn stains may be removed with a nonabrasive cleaner. Hard to reach areas should be cleaned with a small brush and mild soap.
- 3. Wipe dry the entire unit using a non-abrasive, dry cloth.

Replacing an LED Light Tube

Use the following procedure to replace an LED light tube.

A WARNING

Use only Hatco-approved LED light tubes that are specifically designed for food holding areas. Using LED light tubes not designed for food holding areas could result in personal injury and/or food contamination.

- Turn off the unit, turn off power at the circuit breaker, and allow the unit to cool.
- Carefully twist the old LED light tube and pull down to remove it from the sockets on each end.

NOTICE

Make sure to install LED light tube in proper orientation to prevent damage to light tube.

- Locate the new LED light tube and orient the tube so the end with the "LIVE END" marking corresponds with the yellow "LIVE END" label on the unit.
- Align the tabs on each end of the new LED light tube with the channels on each socket, and push the tube up into the sockets.
- Carefully twist the LED light tube in the sockets until it "snaps" into position with the LED lights pointing down.

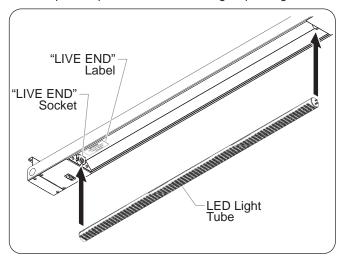


Figure 6. Replacing an LED Light Tube

The following replacement LED light tubes are available from Hatco:

24" LED Light Tube = P/N 02.30.153.00, 10 W (Models NLL-30 and NLL-36)

36" LED Light Tube = P/N 02.30.154.00, 14 W (Models NLL-42 and NLL-48)

48" LED Light Tube = P/N 02.30.143.00, 20 W (Models NLL-54 and NLL-60)



TROUBLESHOOTING GUIDE



A WARNING

This unit must be serviced by qualified personnel only. Service by unqualified personnel may lead to electric shock or burn.

ELECTRIC SHOCK HAZARD: Turn OFF power switch, turn off power at circuit breaker, and allow unit to cool before performing any cleaning, adjustments, or maintenance.

Symptom	Probable Cause	Corrective Action
Unit is turned on, but not	Circuit breaker tripped.	Reset circuit breaker.
working.	LED light tube burned out.	Replace LED light tube. Refer to procedure in MAINTENANCE section.
	Power On/Off switch defective.	Contact Authorized Service Agent or Hatco for assistance.
	Supply voltage to unit is incorrect.	Verify the supply voltage to the unit matches the unit specifications.
	Internal electrical malfunction.	Contact Authorized Service Agent or Hatco for assistance.
Light is inadequate.	LED light tube partially burned out.	Replace LED light tube. Refer to procedure in MAINTENANCE section.
	Unit mounted too high above target area.	Lower unit, putting effective light closer to target.
	Supply voltage to unit is incorrect.	Verify the supply voltage to the unit matches the unit specifications.



OPTIONS AND ACCESSORIES

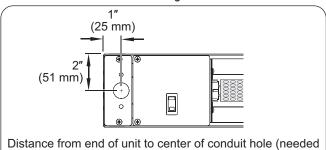
Non-Adjustable Tubular Stands

Tubular stand mounting permanently attaches the unit to a countertop or serving table. All wiring may be concealed within one of the tubular stands.

Aluminum, non-adjustable tubular stands are available in heights of 10", 12", 14", and 16" (254, 305, 356, and 406 mm).

NOTE: Tubular stands cannot be retrofitted in the field.

NOTE: If wiring is to be concealed, a 1" (25 mm) diameter hole must be provided in the mounting surface centered under the stand containing the wire leads.



for 1" [25 mm] diameter hole cutout in mounting surface).

Figure 7. Countertop Conduit Hole Dimension

- 1. Position the unit upside-down on a flat surface.
- NOTE: Units for this application are supplied with the conduit attached to one side of the unit. Conduit should not be removed.
- If applicable, route the flexible conduit through the center of one of the stands.

- Pull the conduit-side stand up against the unit and secure the stand to the unit using the screws supplied. Align the other stand with the mounting holes at the other end of the unit and secure the stand to the unit using the screws supplied.
- 4. If applicable, route the flexible conduit through the 1" (25 mm) diameter hole cut into the mounting surface.
- 5. Secure the stands to the mounting surface.

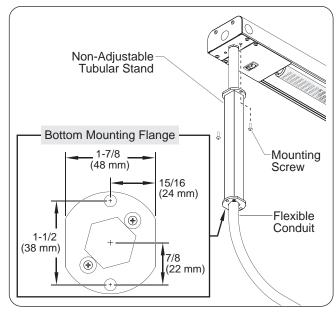


Figure 8. Tubular Stand Mounting



LIMITED WARRANTY

1. PRODUCT WARRANTY

Hatco warrants the products that it manufactures (the "Products") to be free from defects in materials and workmanship, under normal use and service, for a period of one (1) year from the date of purchase when installed and maintained in accordance with Hatco's written instructions or 18 months from the date of shipment from Hatco. Buyer must establish the Product's purchase date by registering the Product with Hatco or by other means satisfactory to Hatco in its sole discretion.

Hatco warrants the following Product components to be free from defects in materials and workmanship from the date of purchase (subject to the foregoing conditions) for the period(s) of time and on the conditions listed below:

a) One (1) Year Parts and Labor PLUS One(1) Additional Year Parts-Only Warranty:

Conveyor Toaster Elements (metal sheathed)
Drawer Warmer Elements (metal sheathed)
Drawer Warmer Drawer Rollers and Slides
Strip Heater Elements (metal sheathed)
Display Warmer Elements (metal sheathed air heating)
Holding Cabinet Elements (metal sheathed air heating)
Heated Well Elements — HWB Series (metal sheathed)

 b) One (1) Year Parts and Labor PLUS Four (4) Years Parts-Only Warranty on pro-rated terms that Hatco will explain at Buyer's request:

3CS and FR Tanks

c) One (1) Year Parts and Labor PLUS Nine (9) Years Parts-Only Warranty on:

Electric Booster Heater Tanks Gas Booster Heater Tanks

d) Ninety (90) Day Parts-Only Warranty:

Replacement Parts

THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR PATENT OR OTHER INTELLECTUAL PROPERTY RIGHT INFRINGEMENT. Without limiting the generality of the foregoing, SUCH WARRANTIES DO NOT COVER: Coated incandescent light bulbs, fluorescent lights, heat lamp bulbs, coated halogen light bulbs, halogen heat lamp bulbs, xenon light bulbs, LED light tubes, glass components, and fuses; Product failure in booster tank, fin tube heat exchanger, or other water heating equipment caused by liming, sediment buildup, chemical attack, or freezing; or Product misuse, tampering or misapplication, improper installation, or application of improper voltage.

2. LIMITATION OF REMEDIES AND DAMAGES

Hatco's liability and Buyer's exclusive remedy hereunder will be limited solely, at Hatco's option, to repair or replacement using new or refurbished parts or Product by Hatco or a Hatcoauthorized service agency (other than where Buyer is located outside of the United States, Canada, United Kingdom, or Australia, in which case Hatco's liability and Buyer's exclusive remedy hereunder will be limited solely to replacement of part under warranty) with respect to any claim made within the applicable warranty period referred to above. Hatco reserves the right to accept or reject any such claim in whole or in part. In the context of this Limited Warranty, "refurbished" means a part or Product that has been returned to its original specifications by Hatco or a Hatco-authorized service agency. Hatco will not accept the return of any Product without prior written approval from Hatco, and all such approved returns shall be made at Buyer's sole expense. HATCO WILL NOT BE LIABLE. UNDER ANY CIRCUMSTANCES, CONSEQUENTIAL OR INCIDENTAL DAMAGES, INCLUDING BUT NOT LIMITED TO LABOR COSTS OR LOST PROFITS RESULTING FROM THE USE OF OR INABILITY TO USE THE PRODUCTS OR FROM THE PRODUCTS BEING INCORPORATED IN OR BECOMING A COMPONENT OF ANY OTHER PRODUCT OR GOODS.



NOTES



NOTES

HATCO AUTHORIZED PARTS DISTRIBUTORS

ALABAMA

Jones McLeod Appl. Svc 205-251-0159

Birmingham

ARIZONA

Service Solutions Group 602-234-2443

Phoenix

Byassee Equipment Co 602-252-0402 Phoenix

CALIFORNIA

Industrial Electric Commercial Parts & Service, Inc. Huntington Beach 714-379-7100

Chapman Appl. Service

619-298-7106 San Diego

P & D Appliance

P & D Appliance Commercial Parts & Service, Inc. S San Francisco 650-635-1900

COLORADO

Hawkins Commercial Appliance 303-781-5548 Englewood

FLORIDA

Whaley Foodservice Repair Jacksonville 904-725-7800

3Wire Nass Service Co., Inc. 407-425-2681

B.G.S.I.

Pompano Beach

954-971-0456

Comm. Appliance Service

813-663-0313 Tampa

GEORGIA

TWC Services Mableton 770-438-9797

Heritage Service Group

866-388-9837 Norcross

Southeastern Rest. Svc. Norcross 770-446-6177

Burney's Comm. Service, Inc. Honolulu 808-848-1466

Food Equip Parts & Service

808-847-4871 Honolulu

ILLINOIS

Parts Town

708-865-7278 Lombard

Eichenauer Elec. Service

217-429-4229

Midwest Elec. Appl. Service 630-279-8000

Cone's Repair Service

Moline 309-797-5323

INDIANA

GCS Service Indianapolis 317-545-9655

Electric Motor Service Co 319-323-1823

Davenport

Goodwin Tucker Group

515-262-9308 Des Moines

KENTUCKY

Service Solutions Group

859-254-8854 Lexinaton

Service Solutions Group 502-451-5411 Louisville

LOUISIANA

Chandlers Parts & Service Baton Rouge 225-272-6620

MARYLAND

Electric Motor Service

410-467-8080 Baltimore

GCS Service

301-585-7550 Silver Spring

MASSACHUSETTS

Ace Service Co., Inc. Needham 781-449-4220

MICHIGAN

Bildons Appliance Service Detroit 248-478-3320

Commercial Kitchen Service 517-893-4561 Bay City

Midwest Food Equip. Service

616-261-2000 Grandville

MINNESOTA

GCS Service

800-345-4221 Plymouth

MISSOURI

General Parts 816-421-5400 Kansas City

Commercial Kitchen Services St. Louis 314-890-0700

Kaemmerlen Parts & Service 314-535-2222 St. Louis

NEBRASKA

Anderson Electric 402-341-1414

Omaha

NEVADA

Burney's Commercial

702-736-0006 Las Vegas

Hi. Tech Commercial Service N. Las Vegas 702-649-4616

NEW JERSEY

Jay Hill Repair

973-575-9145 Fairfield

Service Plus

Flanders 973-691-6300 **NEW YORK**

Acme American Repairs, Inc.

718-456-6544 Brooklyn

Alpro Service Co.

718-386-2515 Brooklyn

Appliance Installation

716-884-7425 Buffalo

Duffy's Equipment Services, Inc. Buffalo 800-836-1014

3Wire Northern

Plattsburgh 800-634-5005

Duffy's Equipment Services, Inc. 800-836-1014 Sauguoit

J.B. Bradv. Inc.

Syracuse 315-422-9271

NORTH CAROLINA

Authorized Appliance Charlotte 704-377-4501

OHIO

Akron/Canton Comm. Svc. Inc. 330-753-6635

Service Solutions Group
513-772-6600

Commercial Parts and Service 614-221-0057 Columbus

Electrical Appl. Repair Service

Brooklyn Heights 216-459-8700

E. A. Wichman Co.

Toledo 419-385-9121

OKLAHOMA

Hagar Rest. Service, Inc

Oklahoma City 405-235-2184

Krueger, Inc. Oklahoma City 405-528-8883

OREGON

Ron's Service, Inc.

Portland 503-624-0890

PENNSYLVANIA

Elmer Schultz Services

215-627-5401 Philadelphia

FAST Comm. Appl. Service 215-288-4800

Philadelphia Appliance Installation & Service

412-809-0244

610-376-5444

401-331-1163

Pittsburgh

K & D Service Co.

717-236-9039 Harrisburg Electric Repair Co.

Reading

RHODE ISLAND Marshall Electric Co.

Providence SOUTH CAROLINA

Whaley Foodservice Repair W. Columbia 803-803-791-4420

TENNESSEE

Camp Electric Memphis 901-527-7543

GCS Service Fort Worth

800-433-1804

Armstrong Repair Service 713-666-7100 Houston

Cooking Equipment Specialist

888-866-9276 Mesauite

Refrigerated Specialist, Inc 888-866-9276 Mesquite

Commercial Kitchen Repair Co. San Antonio 210-735-2811

UTAH

La Monica's Rest. Equip. Service Murray 801-263-3221

VIRGINIA

Daubers

Norfolk 757-855-4097

Daubers Springfield 703-866-3600

WASHINGTON

3Wire Restaurant Appliance

Seattle 800-207-3146

WISCONSIN

A.S.C., Inc.

Madison 608-246-3160

A.S.C., Inc. Milwaukee 414-543-6460

CANADA

ALBERTA

Key Food Equipment Service 780-438-1690 Edmonton

BRITISH COLUMBIA

Key Food Equipment Service 604-433-4484 Vancouver

Key Food Equipment Service 250-920-4888 Victoria

MANITOBA

Air Rite, Inc. Winnipeg 204-895-2300

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EMR Services, Ltd. Moncton

ONTARIO

R.G. Henderson Ltd.

Toronto

416-422-5580 Choquette - CKS, Inc.

Ottawa

QUÉBEC

Choquette - CKS, Inc.

Choquette - CKS, Inc. 514-722-2000 Montreal

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www.hatcocorp.com

Register your unit online! See IMPORTANT OWNER INFORMATION

section for details.