

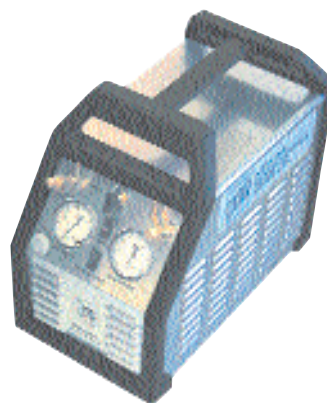
NATIONAL REFRIGERATION PRODUCTS

GS2000

Oil-less Refrigerant Recovery Unit

For use with:

- GROUP III** R12, R134a, R401C, R406A and R500
GROUP IV R401A, R409A, R401B, R412A, R411A, R407D, R22, R411B, R502, R407C, R402B, R408A and R509
GROUP V R407A, R404A, R402A, R507, R407B and R410A



GlobeSaver™
SERIES

GS2000 & GS2001 Units

Features

- Pumps Liquid or Vapor Directly
- 1/2 H.P. Oil Less Compressor
- Patented Pump Out Feature
- EPA and ARI Certified
- Easy to Use
- High Impact Protective Handle & Frame
- Rugged Design with Louvered Aluminum Housing
- Unique 4-Way Air Over Condenser Design
- GS2001 also Features Auto Shut-Off at 80% Cylinder Full, and Hoses Included
- 052 Drier Supplied

Applications

- Commercial A/C
- Commercial Refrigeration
- Roof Top Units
- Ice Machines
- Residential A/C
- Appliances

Specifications

Power: 8A, 115V, 60HZ, 1PH
Unit Weight: 37 lbs. **Shipping Weight:** 44 lbs.
Dimensions: 10 1/2" W x 15" H x 18" D
Available: 4A, 220V, 50HZ, 1PH
Connections: 1/4" MFL

GS2000 & GS2001 Recovery Diagrams

DIAGRAM 1:

Liquid & Vapor Recovery

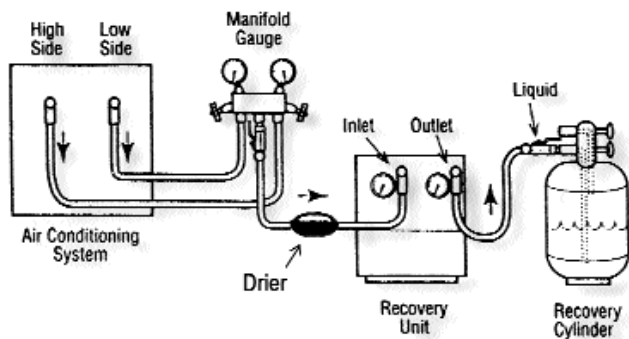
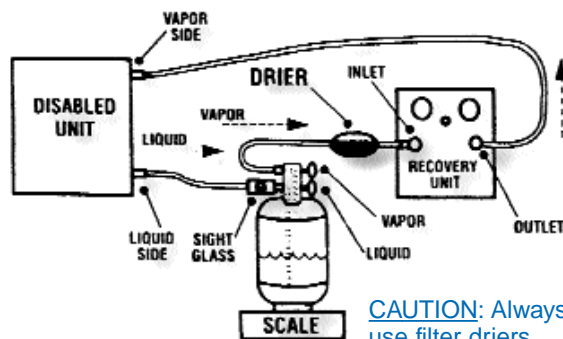


DIAGRAM 2:

Optional Liquid Recovery - Push/Pull

Note: Always fill cylinder by weight to a maximum of 80% or use cylinder with float switch.



CAUTION: Always use filter driers

RATED IN ACCORDANCE WITH ARI STANDARD 740-98



| REFRIGERANT GROUPS | DIRECT LIQUID REFRIGERANT | PUSH/PULL LIQUID REFRIGERANT | VAPOR REFRIGERANT | SHUT-OFF VACUUM |
|--------------------|---------------------------|------------------------------|-------------------|-----------------|
| GR III | 2.49 lbs./min | 9.79 lbs./min | .37 lbs./min | 15" |
| GR IV | 3.24 lbs./min | 11.38 lbs./min | .24 lbs./min* | 15" |
| GR V | 4.19 lbs./min | 11.95 lbs./min | .42 lbs./min | 15" |

* High temperature vapor rate: .33 lbs./min

NATIONAL REFRIGERATION PRODUCTS

LV2000

Portable Refrigerant
Recovery Unit

For use with:

GROUP III R12, R134a, R401C, R406A and R500**GROUP IV** R401A, R409A, R401B, R412A, R411A, R407D, R22,
R411B, R502, R407C, R402B, R408A and R509**GROUP V** R407A, R404A, R402A, R507, R407B and R410A

LV2000 & LV2001 Units

Features

- Patented Pump Out Feature
- Patented Compressor Sight Glass for Monitoring of Oil Level and Easy Access Compressor Oil Drain
- Electrical Cord Wrap
- EPA and ARI Certified
- Low Cost
- Easy to Use
- Attractive, Compact Design
- Portable
- LV2001 also Features 3 Positive Shut Off Hoses and Liquid Sight/Glass

Applications

- Commercial A/C
- Commercial Refrigeration
- Roof Top Units
- Ice Machines
- Residential A/C
- Appliances

Specifications

Power: 8A, 115V, 60HZ, 1PH*Unit Weight:* 47 lbs *Shipping Weight:* 54 lbs*Dimensions:* 15"H x 10-1/2"W x 20" D*Available:* 4A, 220V, 50HZ, 1PH, Model LV2002*Connections:* 1/4" MFL*Oil Charge:* 150 Alkyl Benzene

LV2000 & LV2001 Recovery Diagrams

DIAGRAM 1:

Liquid Recovery

NOTE: Always use filter drier in vapor inlet of unit to protect compressor and cro valve.

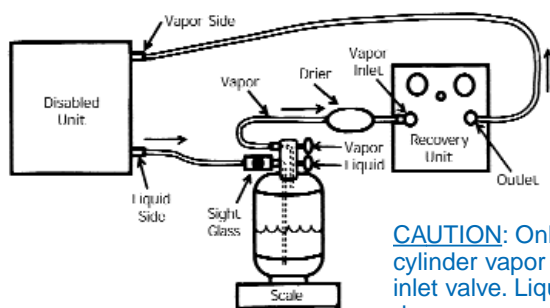
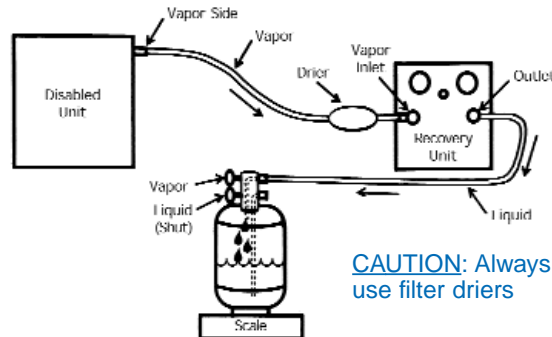


DIAGRAM 2:

Vapor Recovery

NOTE: Always fill cylinder by weight to a maximum of 80% or use cylinder with float switch.



RATED IN ACCORDANCE WITH ARI STANDARD 740-98



| REFRIGERANT GROUPS | PUSH/PULL LIQUID REFRIGERANT | VAPOR REFRIGERANT | SHUT-OFF VACUUM |
|--------------------|------------------------------|-------------------|-----------------|
| GR III | 10.25 lbs./min | .48 lbs./min | 10" |
| GR IV | 11.00 lbs./min | .46 lbs./min | 10" |
| GR V | 8.30 lbs./min | .33 lbs./min | 10" |

NATIONAL REFRIGERATION PRODUCTS

REVAC Combination Oil-less Refrigerant Recovery Unit & Vacuum Pump

Certified to ARI 740-98

Can also be used with most refrigerant blends.*

Patented True Vacuum Pump - Pulls 500 Microns!



REVAC Unit & REVAC-UL

REVAC Features

- Two Units in One!
- Recovery Unit/Vacuum Pump
- 1 H.P. Compressor
- Accessory Compartment
- Attractive Tool Box Design
- True Vacuum Pump - 500 microns
- EPA and ARI Certified
- Manual or Auto Switching to System Evacuation
- 1/4" Hose Adapters
- 053 Drier Supplied

Applications

- Commercial A/C
- Commercial Refrigeration
- Roof Top Units
- Ice Machines
- Residential A/C
- Appliances
- Vending Machines

Specifications

Power: 12.5A, 115V, 60HZ, 1PH

Unit Weight: 50 lbs.

Shipping Weight: 58 lbs.

Dimensions: 22" W x 11" H x 10 1/4" D

Connections: 3/8" MFL

REVAC UL Features

- Two Units in One!
- Recovery Unit/Vacuum Pump
- 1 H.P. Compressor
- Accessory Compartment
- Attractive Tool Box Design
- True Vacuum Pump - 500 microns
- EPA and ARI Certified
- Tank Overfill Protection
- UL Listed
- Comes with 4 Hoses and 50 lb. Cylinder and Sight Glass
- Patented Pump Out Feature
- EPA and ARI Certified
- Manual or Auto Switching to System Evacuation
- 1/4" Hose Adapters
- 053 Drier Supplied

REVAC Recovery Diagrams

DIAGRAM 1:

Liquid Recovery

NOTE: **Do Not** connect liquid line to recovery unit. Compressor could be damaged.

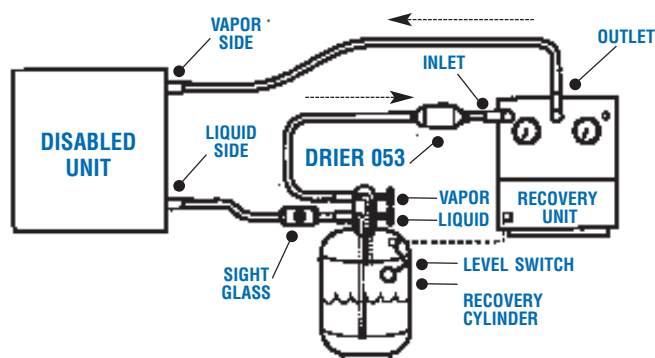
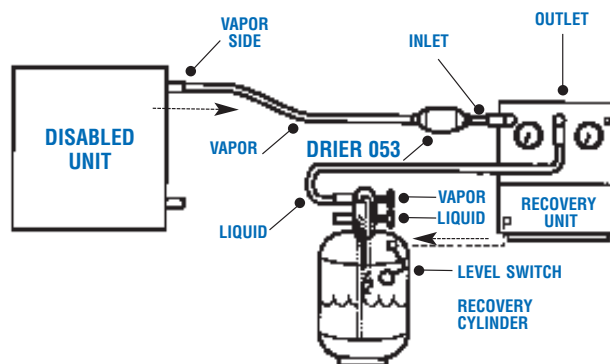


DIAGRAM 2:

Vapor Recovery & System Evacuation



RATED IN ACCORDANCE WITH ARI STANDARD 740-98



| REFRIGERANT GROUPS | PUSH/PULL LIQUID REFRIGERANT | VAPOR REFRIGERANT | SHUT-OFF VACUUM |
|--------------------|------------------------------|-------------------|-----------------|
| GR III | 12.35 lbs./min | .40 lbs./min | 10" |
| GR IV | 13.05 lbs./min | .42 lbs./min | 10" |

* May not be applicable for all refrigerant blends. Consult factory for proper application.

NATIONAL REFRIGERATION PRODUCTS

AUTOMATIC

**Totally Automatic
Oil-less Refrigerant
Recovery Unit**

CERTIFIED TO ARI 740-95

For use with R12, R22, R502, R134a & Blends*

One Step Recovery—No Switching Hoses!

**GlobeSaver™
SERIES**

AR1UL Unit

Features

- One Step Recovery
- Automatic Sensing of Liquid and Vapor
- No Switching Hoses
- Attractive Tool Box Design
- Tool/Accessory Compartment
- Tank Overfill Protection
- Self Clearing Mode
- Comes with 4 Positive Shut-Off Hoses and 50 lb. Cylinder
- UL Listed
- Automatic Shut-Off At 10" Vacuum
- 053 Drier Supplied

Applications

- Commercial A/C
- Commercial Refrigeration
- Roof Top Units
- Ice Machines
- Residential A/C
- Appliances
- Vending Machines

Specifications

Power: 9A, 115V, 60HZ, 1PH

Unit Weight: 46 lbs.

Shipping Weight: 59 lbs.

Connections: 3/8" MFL

Dimensions:

22" W x 11" H x 10 1/4" D

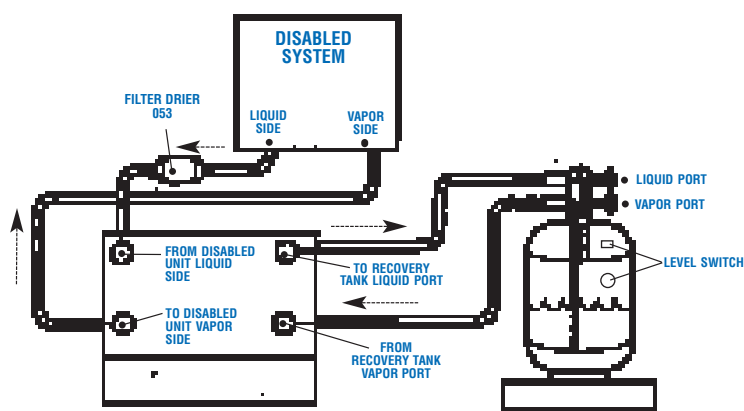
**Subcool
feature**



AUTOMATIC Recovery Diagram

DIAGRAM:

Liquid & Vapor Recovery



RATED IN ACCORDANCE WITH ARI STANDARD 740-95

ARI AIR-CONDITIONING & REFRIGERATION INSTITUTE



| NRP MODEL | REFRIGERANT | LIQUID REFRIGERANT RECOVERY RATES (lbs./min.) | VAPOR REFRIGERANT RECOVERY RATES (lbs./min.) | SHUT-OFF VACUUM |
|-----------|-------------|---|--|-----------------|
| AR1UL | R12 | 10.0 | .42 | 10" |
| AR1UL | R22 | 11.5 | .50 | 0" |
| AR1UL | R134a | 10.8 | .35 | 10" |
| AR1UL | R502 | 11.7 | .50 | 10" |

* May not be applicable for all refrigerant blends. Consult factory for proper application.

NATIONAL REFRIGERATION PRODUCTS

Model FF1 Portable Refrigerant Recovery Unit — For Use with R12, R22, R502, R134a & Blends* **Model FF1UL Portable Refrigerant Recovery Unit** — For Use with R12, R22, R502, R134a & Blends*



**Subcool
feature**



FF1 Unit

Features

- New Subcool Feature for Cylinder Cooling under High Ambient Conditions
- Electrical Cord Wrap
- Patented Compressor Sight Glass for Monitoring of Oil & Easy access Compressor Oil Drain
- Recovers Liquid & Vapor the Same Way - No Need to Change Hoses
- Light Weight
- EPA & ARI Certified
- Easy to Use
- 053 Drier Supplied
- Built-in Sight Glass

Applications

- Commercial A/C
- Commercial Refrigeration
- Roof Top Units
- Ice Machines
- Residential A/C
- Appliances

Specifications

Power:
7.70A, 115V, 60 HZ, 1PH
Unit Weight: 47 lbs.
Shipping Weight: 54 lbs.
Dimensions:
12"H x 12"W x 15"D
Connections: 3/8" MFL
Oil Charge:
150 Alkyl Benzene

FF1UL Unit

Features

- UL Listed
- New Subcool Feature for Cylinder Cooling under High Ambient Conditions
- Electrical Cord Wrap
- Patented Compressor Sight Glass for Monitoring of Oil & Easy Access Compressor Oil Drain
- Recovers Liquid & Vapor the Same Way - No Need to Change Hoses
- EPA & ARI Certified
- Light Weight
- Easy to Use
- Tank Overfill Protection
- Comes with 4 Positive Shut-off Hoses, 50 lb Cylinder
- 053 Drier Supplied
- Built-in Sight Glass

Applications

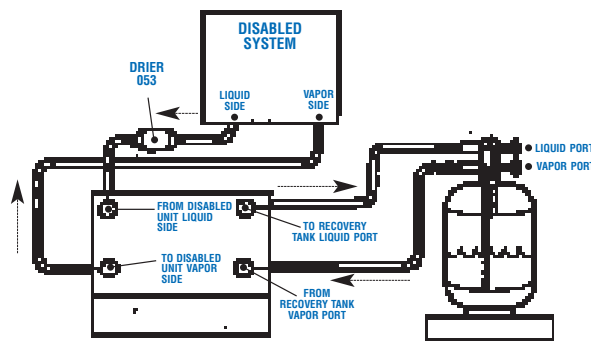
- Commercial A/C
- Commercial Refrigeration
- Roof Top Units
- Ice Machines
- Residential A/C
- Appliances

Specifications

Power:
7.70A, 115V, 60 HZ, 1PH
Unit Weight: 48 lbs.
Shipping Weight: 59 lbs.
Dimensions:
12"H x 15"W x 12"D
Connections: 3/8" MFL
Oil Charge:
150 Alkyl Benzene

FF1/FF1UL Recovery Diagram

- Liquid flows from the disabled unit liquid side to the inlet of the FF1 marked "FROM DISABLED UNIT LIQUID SIDE."
- It is discharged out of the FF1 outlet valve marked "TO RECOVERY TANK LIQUID PORT" into the liquid port of the recovery cylinder.
- The vapor side of the disabled system is pressurized by the outlet valve marked "TO DISABLED UNIT VAPOR SIDE."
- The recovery cylinders internal pressure is reduced by pulling vapor off the top through the inlet valve marked "FROM RECOVERY TANK VAPOR PORT."
- This allows the refrigerant to flow freely into the cylinder.



RATED IN ACCORDANCE WITH ARI STANDARD 740-98



| REFRIGERANT GROUPS | PUSH/PULL LIQUID REFRIGERANT | VAPOR REFRIGERANT | SHUT-OFF VACUUM |
|--------------------|------------------------------|-------------------|-----------------|
| GR III | 10.50 lbs./min | .48 lbs./min | 10" |
| GR IV | 8.40 lbs./min | .50 lbs./min | 10" |

* May not be applicable for all refrigerant blends. Consult factory for proper application.

NATIONAL REFRIGERATION PRODUCTS

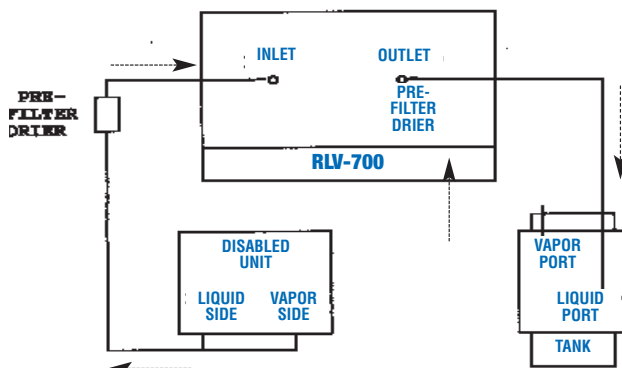
RECYCLING UNITS

RLV700 Liquid and Vapor Recovery/Recycling Unit —**For Use with R12, R22, R502, R134a & Blends***

The Model RLV700 is a recycling unit to be used in the contractor shop or in an equipment room. It is designed to recycle refrigerant in batches up to 160 pounds, to a quality within the IRG2 standard. The RLV700 has been tested in accordance with ARI-740 standard and certified to ARI.

**RLV700 Unit****Features**

- EPA and ARI Certified
- UL Listed
- Easy to Use
- Patented Pump Out Feature
- Recycles Liquid and Vapor the Same Way - No Need to Change Hoses
- Filters Out Acids, Moisture, Oil, Chlorides, Particulate, and Disposes of Non-Condensables to IRG2 Quality up to 160 lbs. before a Filter Change is Required
- Patented Compressor Sight Glass and Oil Drain
- Comes With 2 Positive Shut-Off Hoses, 50 lb Cylinder & Liquid Sight Glass
- Electrical Cord Wrap
- Tank Overfill Protection
- 053 Filter Drier Supplied

**RLV700 Recovery Diagram****Applications**

- Contractor Shop
- Equipment Room

Specifications*Capacity:*

• Liquid Recovery / Recycling up to .60 lb./min.

• Vapor Recovery / Recycling up to .40 lb./min.

Power:

6.70A, 115V, 60HZ, 1PH

Unit Weight: 120 lbs.

Shipping Weight: 164 lbs.

Dimensions:

35"H x 16"W x 15"D

Vacuum: 10" Hg

Available: 4.5A, 220V, 50HZ, 1PH, RLV700E

Connections: 3/8" MFL

Oil Charge:

150 Alkyl Benzene

**RAD700 Liquid and Vapor Recycling Add On Unit —****For Use with R12, R22, R502, R134a & Blends***

The RAD700 is a recycling unit to be used on the job site in conjunction with a GS2000, LV2000, LV1, ULV1, LV1C, LV1CUL, GS1, GS1UL, GS2, REVAC, and AR1UL or other recovery units. It is designed to recycle refrigerant in batches of 40lbs., to a quality within the IRG2 standard. The RAD700 has been tested in accordance to the ARI-740 standard and is certified to ARI.

**RAD700 Unit****Features**

- Easy to Use
- EPA and ARI-740 Certified
- UL Listed
- Recycles Liquid and/or Vapor. No Need to Change Hoses
- Recycles to IRG2 Standard in 40 lbs. Batches before a Filter Change is Required
- Low Cost and Portable for Job Site Recycling
- Efficient Compact Design
- Easily Accessible Contaminants Drain
- Convenient Electrical Cord Wrap
- 052 Drier Supplied

Applications

- Commercial A/C
- Commercial Refrigeration
- Residential A/C
- Roof Top Units

Specifications*Capacity:*

Liquid Recovery / Recycling

Rate of .35 lbs/min

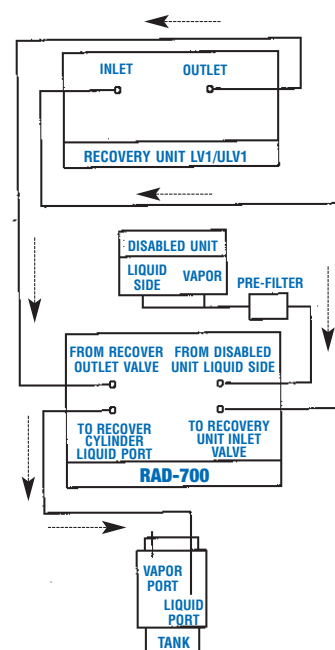
Vapor Recovery / Recycling

Rate of .35 lbs/min

Unit Weight: 35 lbs.

Shipping Weight: 44 lbs.

Connections: 1/4" MFL

Recovery Diagram

Power: 6.10A, 115V, 60HZ, 1PH

Dimensions: 12"H x 12"W x 15"D

Vacuum: 10" Hg

Available: 3.5A, 220V, 50HZ, 1PH, RAD700E

Standard (R12)**RAD700/RLV-700****IRG2**

| | | |
|------------------|--------|--------|
| Water | 10 PPM | 10 PPM |
| Acidity | 1 PPM | 1 PPM |
| Chloride | Pass | Pass |
| Oil Residue | .02% | .02% |
| Non-Condensables | 2% | 2% |
| Particulates | Pass | Pass |

* May not be applicable for all refrigerant blends. Consult factory for proper application.

NATIONAL REFRIGERATION PRODUCTS

LV20 Large Capacity Recovery Unit —

For Use with R12, R22, R114, R500,
R502, R134a & Blends*



LV20 Unit

Applications

- This unit is best suited for the industrial application where plant air is available.
- This unit is ideal for marine application.
- Excellent for quick recovery in supermarkets or food plant systems which cannot afford down time.

Specifications

Capacity:

- Vapor: 1.40 lbs./min
- Air Supply: 40 CFM air at 100 PSI
- Liquid: 52 lbs./min

Unit Weight: 125 lbs. Shipping Weight: 158 lbs.

Dimensions: 26"W x 28"L x 45"H

Connections: 3/8" MFL Inlet, 3/8" MFL Outlet

To recover 200 lbs. or more, in high pressure systems.

The LV20 is designed for larger installations to transfer large quantities of liquid refrigerant.

The unit is mobile and mounted on a rugged steel frame for easy handling.

The LV20 can pump clean or contaminated refrigerant liquid or vapor quickly and reliably without risk of damages due to slugging or running dry.

The transfer system is an air driven oil-less positive displacement pump. The LV20, which includes a condenser/subcooler coil, will pump vapor and condense it for faster transfer.

The transfer unit can also be effectively used to charge systems with refrigerant. 40 CFM of compressed air at 100 PSI is required to operate the LV20 effectively.

With a lower air CFM or pressure, the capacity of the unit decreases. If plant air is not available, a 15 H.P. air compressor can be used.

The LV20 does not require electric power. The condenser fan air motor is factory piped to the air regulator. The two stage standard pumping feature allows for refrigerant recovery to 25" vacuum if required.

The LV20 is supplied with a unique patented condenser pump out system to avoid unnecessary venting of refrigerants.

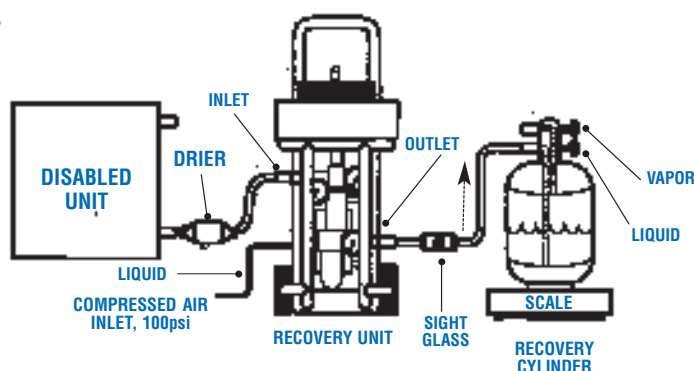
The LV20 is also available in a base mounted configuration. This version, Model LV20B, is convenient when it is necessary to carry the unit through small passages or access hatches.

Filter Drier 163F supplied

LV20 Recovery Diagram

DIAGRAM:

Liquid and Vapor Recovery



RATED IN ACCORDANCE WITH ARI STANDARD 740-95



| NRP MODEL | REFRIGERANT | PUSH/PULL LIQUID REFRIG. RECOVERY (lbs./min.) | LIQUID REFRIGERANT RECOVERY RATES (lbs./min.) | VAPOR REFRIGERANT RECOVERY RATES (lbs./min.) | SHUT-OFF VACUUM |
|-----------|-------------|---|---|--|-----------------|
| LV20 | R114 | 22 | 9.4 | .50 | 15" |
| LV20 | R12 | 48 | 17.0 | 1.20 | 15" |
| LV20 | R134a | 44 | 16.0 | .88 | 15" |
| LV20 | R22 | 52 | 16.0 | 1.25 | 10" |
| LV20 | R500 | 45 | 16.0 | 1.25 | 15" |
| LV20 | R502 | 49 | 18.0 | 1.40 | 15" |

* May not be applicable for all refrigerant blends. Consult factory for proper application.

NATIONAL REFRIGERATION PRODUCTS

LV8 Commercial Liquid and Vapor Recovery Unit —

For Use with R12, R22, R114, R500, R502, R134a & Blends*



LV8 Unit

Applications

- High Pressure Chillers
- Supermarkets
- Large Packaged A/C Units
- In Factory Units
- Salvage Yards

Specifications

Capacity:

- Air Supply: 10 CFM air at 100 PSI

Power: 1.5 H.P., 230V, 60HZ, 10A

Unit Weight: 169 lbs. **Shipping Weight:** 202 lbs.

Dimensions: 22"W x 24L x 45"H

Available:

1.5 H.P., 8.5A, 220V, 50HZ, 1PH, LV8E,
and 1.5 H.P., 20A, 115V, 60HZ, 1PH, LV8/115
and 1.5 H.P., 3A, 460V, 60HZ, 3PH, LV8/460

Connections: 3/8" MFL Inlet, 1/2" FPT Outlet

U.S. Patent Number: 5,020,331

The LV8 recovery system is an air driven positive displacement pump which includes a 1.5 H.P. oil-less air compressor to power it.

The LV8, which includes a condenser/sub cooler coil, will pump vapor and condense it for faster transfer.

Any recovery cylinder with one or two valves can be used. The NRP LV8 is very easy to use because it will pump either refrigerant liquid or vapor in the same way.

There is no need to change piping or setting of the unit. There is no risk of slugging the pump or risk of damage by running the pump dry. The LV8 will recover systems to 20" Hg vacuum.

The transfer unit may also be used very effectively to charge systems with refrigerant.

The LV8 can be used with plant air at 10 cfm, 100 psi when available, instead of unit mounted air compressor.

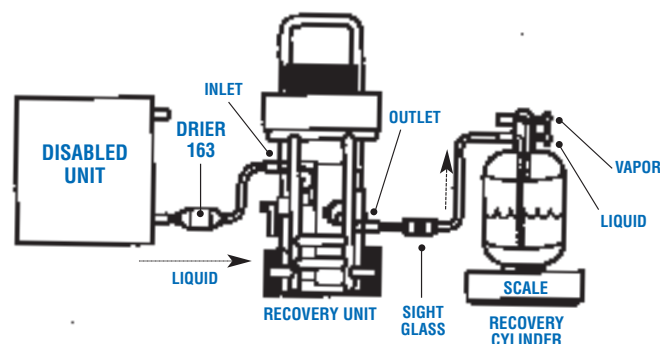
The unit is supplied with a unique patented condenser pump out system to avoid unnecessary venting of refrigerant.

C163F filter drier is supplied.

LV8 Recovery Diagram

DIAGRAM:

Liquid and Vapor Recovery



RATED IN ACCORDANCE WITH ARI STANDARD 740-98

ARI AIR-CONDITIONING & REFRIGERATION INSTITUTE



| REFRIGERANT GROUPS | DIRECT LIQUID REFRIGERANT | PUSH/PULL LIQUID REFRIGERANT | VAPOR REFRIGERANT | SHUT-OFF VACUUM |
|--------------------|---------------------------|------------------------------|-------------------|-----------------|
| GR II | 9.20 lbs./min | 11.50 lbs./min | .22 lbs./min | 15" |
| GR III | 15.00 lbs./min | 32.10 lbs./min | .30 lbs./min | 15" |
| GR IV | 16.50 lbs./min | 32.45 lbs./min | .29 lbs./min | 10" |

* May not be applicable for all refrigerant blends. Consult factory for proper application.

NATIONAL REFRIGERATION PRODUCTS

LV5 Commercial Liquid and Vapor Recovery Unit —

For Use with R12, R22, R502, R134a and Blends*



LV5 Unit

Applications

- Large Field Erected Systems with Long Piping Runs
- Systems Requiring Large Vapor Capacity
- Supermarkets
- Salvage Yards

Specifications

Capacity:

- Power: 1.5 H.P., 230V, 60Hz, 20A

Unit Weight: 236 lbs. Shipping Weight: 267 lbs.

Dimensions: 22"W x 24L x 45"H

Available: 1.5 H.P., 16A, 220V, 50Hz, 1PH, LV5E

Connections: 3/8" MFL Inlet, 3/8" MFL Outlet

The LV5 is designed for commercial installations. It consists of a belt-driven open-type compressor, which will recover systems to 20" Hg vacuum.

The LV5 has been designed to be simple to operate and service.

The unit is mobile with all components mounted on a sturdy steel frame. It utilizes a rugged open compressor which eliminates all problems related to the handling of contaminated refrigerant. Any recovery cylinder with one or two valves can be used.

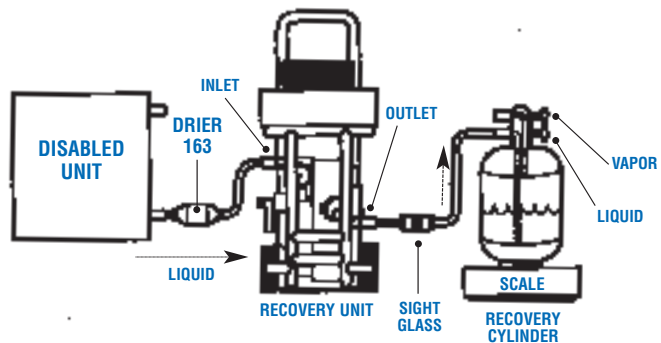
For large systems, the LV5 can work as a supplementary unit to handle vapor recovery in combination with liquid recovery pump.

C163F filter drier is supplied.

LV5 Recovery Diagram

DIAGRAM:

Liquid and Vapor Recovery



RATED IN ACCORDANCE WITH ARI STANDARD 740-95



| NRP MODEL | REFRIGERANT | PUSH/PULL LIQUID REFRIG. RECOVERY | LIQUID REFRIGERANT RECOVERY RATES | VAPOR REFRIGERANT RECOVERY RATES | SHUT-OFF VACUUM |
|--------------|-------------|--------------------------------------|--------------------------------------|-------------------------------------|--------------------|
| | | RATE | (lbs./min.) | (lbs./min.) | |
| LV5 | R12 | 33.50 | 9.00 | 1.10 | 15" |
| LV5 | R134a | 27.50 | 7.85 | 1.00 | 15" |
| LV5 | R22 | 31.50 | 10.25 | 1.20 | 10" |
| LV5 | R502 | 29.00 | 10.25 | 1.50 | 15" |

* May not be applicable for all refrigerant blends. Consult factory for proper application.

NATIONAL REFRIGERATION PRODUCTS

VR11 Transportable Recovery System —

For Use with R11, R113, & R123

The VR11 Unit is designed for complete removal of R11, R113 or R123.

The unit is easily transportable, and can be used for both liquid and vapor recovery.

The VR11 will help you recover the refrigerant charge from a chiller to meet the requirements of the Clean Air Act.

The VR11 will evacuate the chiller to 29" Hg vacuum using its 1 H.P. belt-driven vacuum pump rated at 40 microns and 10.6 cfm.



The unit comes standard with the following items:

- 1 - NC50U Recovery Cylinder for Vapor
- 1 - 15 foot 3/4" hose
- 2 - 10 foot 3/4" hoses
- 1 - 6 foot 1/4" hose
- 1 - Relief valve, set at 20 psig to purge non-condensables, if required
- 1 - C165 Filter Drier

VR11 Unit

Applications

- Low pressure chillers
- Transportable by van or truck
- Easily movable within equipment and mechanical rooms

Specifications

Capacity:

- Vapor: .86 lbs./min
- Liquid: Push/Pull 84 lbs./min
- Vacuum: 29" Hg

**Note: 20 AMP Service Required*

Power: 1 H.P., 18.50A, 115V, 60 Hz, 1PH

Unit Weight: 246 lbs. **Shipping Weight:** 296 lbs.

Dimensions: 26"W x 28L x 45"H

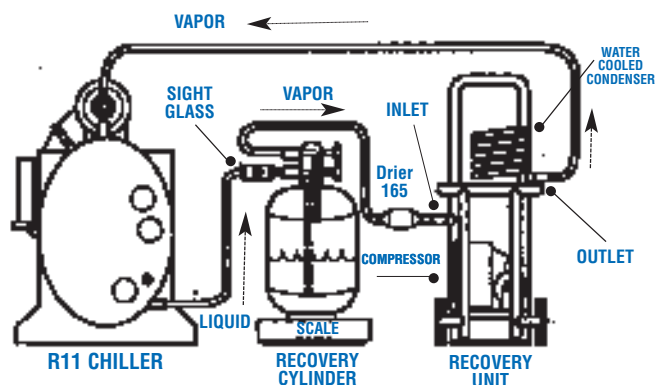
Available: 1 H.P., 6A, 220V, 50Hz, 1PH, VR11E

Connections: 5/8" MFL



Rated in accordance with
ARI Standard 740-98

Liquid Recovery Diagram #1



Liquid Recovery

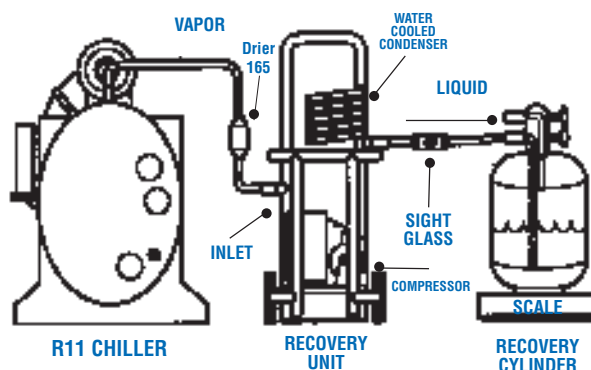
Liquid recovery is done by using the push-pull method as shown in Diagram #1. A lower pressure is created in the recovery cylinder which forces the liquid refrigerant from the chiller into the cylinder.

The pumping rate will increase if the chiller pressure is raised to 5 to 10 psig by raising the water temperature. The rate will also improve if a 3/4" or 1" connection is used at the chiller.

The VR11 includes one 50 pound recovery cylinder NC50U with a float-type shut-off switch. This switch will shut off the VR11 when the recovery cylinder is 80% full.

Additional, larger tanks, NRP model N250T, N665T etc. can be purchased separately if required.

Vapor Recovery Diagram #2



Pounds of Vapor Left in a 350 Ton Chiller at Various Vacuum Levels (Diagram)

Vapor Recovery

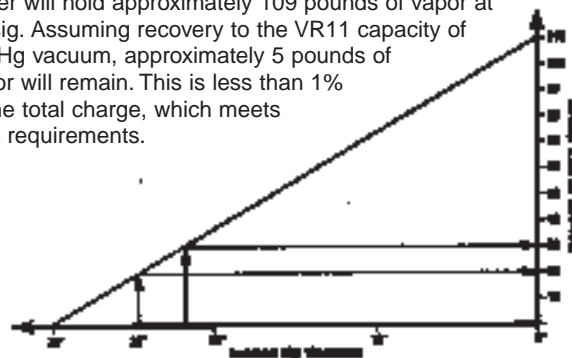
Once all the liquid has been recovered, the remaining vapor can be extracted with the recovery unit as shown in Diagram #2. The VR11 utilizes a water cooled condenser which requires approximately 3 gpm of water between 40°F and 75°F.

As with liquid recovery, the recovery time is improved if the connections at the chiller are changed to 3/4" or 1".

R11 Vapor must also be recovered to meet EPA requirements

To illustrate the need to recover both liquid and vapor, take an example of a 350 ton chiller which has a charge of about 600 pounds of R11.

The chiller, which is about 15 feet long, has a combined evaporator/condenser volume of about 300 cubic feet. From standard refrigerant tables, 0 psig R11 vapor weighs .364 lbs/ft³. After removing all the R11 liquid (about 500 lbs.), the chiller will hold approximately 109 pounds of vapor at 0 psig. Assuming recovery to the VR11 capacity of 29" Hg vacuum, approximately 5 pounds of vapor will remain. This is less than 1% of the total charge, which meets EPA requirements.



NATIONAL REFRIGERATION PRODUCTS

LP13 Recovery Unit —

For use with R13, R23, R508A, R503 and R508B



LP13 Unit

Specifications

Liquid Capacity: 5 lbs./min

Unit Weight: 76 lbs.

Shipping Weight: 112 lbs.

Dimensions: 22"W x 24"L x 45"H

The LP13 pump will recover at a rate of 5 pounds per minute depending on available air pressure and CFM. The LP13 includes an oil-less air driven pump which requires 30 CFM of air at 100 PSIG.

Use only with cylinders rated to 2000 PSI working pressure.

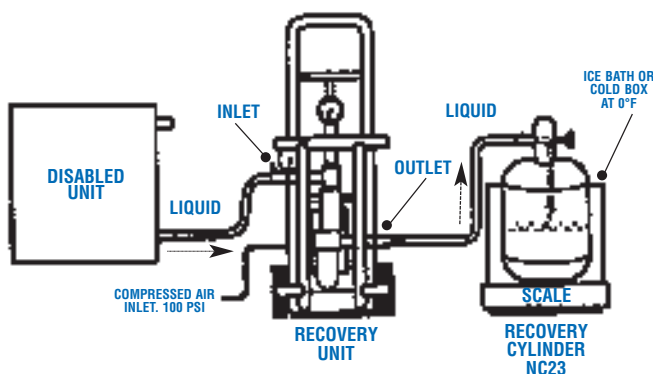
The LP13 pump will not transfer vapor, but will not be damaged if it runs with vapor only.

Two 6 ft. braided hoses with 5/16" SAE connections are included.

LP13 Recovery Diagram

DIAGRAM:

Liquid Recovery



VR13 Recovery Unit —

For use with R13, R23, R508A, R503 AND R508B
Certified to ARI Standard 740-98, Category VI



VR13 Unit

Specifications

Vapor Capacity: 1.5 lbs./min

Vacuum: 0 psig

Unit Weight: 95 lbs.

Shipping Weight: 131 lbs.

Dimensions: 22"W x 24"L x 45"H

The VR13 recovery unit will recover at a rate of 1.5 pounds per minute. Recovery rate will vary with compressed air and refrigerant pressure. The VR13 includes an oil-less, air driven pump which requires 30 CFM of air at 100PSI.

Use only with cylinders rated to 2000 PSI working pressure.
The VR13 will not pump liquid refrigerant.

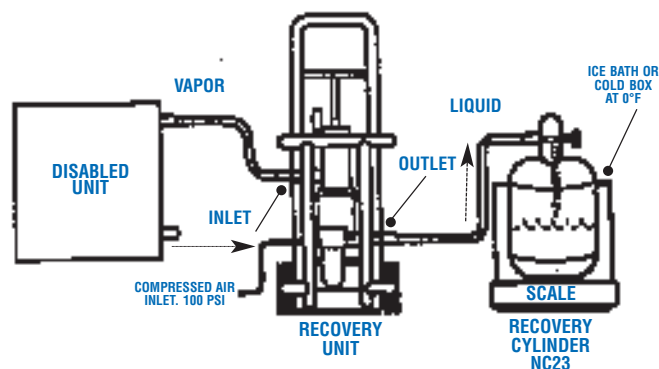
Recovers systems to 0 psig as required by the EPA

Two 6 ft. braided hoses with 5/16" SAE connections are included.

VR13 Recovery Diagram

DIAGRAM:

Vapor Recovery



NATIONAL REFRIGERATION PRODUCTS

TS4 Refrigerant Transfer Station — For use with R12, R22, R500, R502, R134a and Blends*



TS4 Unit

Specifications

Power: 30A, 230V, 60 Hz, 1 PH

Weight: 375 pounds

Dimensions: 27"W x 55"L x 40"H

Unit is supplied with four 3' x 3/8" hoses and one 8' x 3/8" hose.

Available: 30A, 220V, 50Hz, 1PH, TS4E

The Most Practical Transfer Station for the Wholesaler. Practical participation in reclamation programs can begin in the warehouse. NRP's TS4 unit allows the wholesaler or contractor to consolidate small cylinders of refrigerant into large reclamation cylinders.

The TS4 unit consists of two 1 1/2 H.P. compressors, a condenser coil and a fan. It is supplied with four 3' x 3/8" hoses and one 8' x 3/8" hose. All the components are mounted on a rugged steel cart.

The transfer unit top holds four 50 pound cylinders. Any cylinder with one or two valves can be used.

The TS4 will pump liquid or vapor in the same way without resetting the unit. There is no risk of damage by running the pump dry or slugging it.

The TS4 evacuates refrigerant from cylinders to 4" vacuum and automatically shuts off. The TS4 can be field adjusted to evacuate cylinders to a lower vacuum level if required.

The unit is supplied with a unique patented pump-out system to avoid venting or mixing of different refrigerants.

Easy to use:

1. Connect cylinders.
2. Turn power on.
3. The TS4 will stop automatically when the tanks to be emptied are under vacuum.

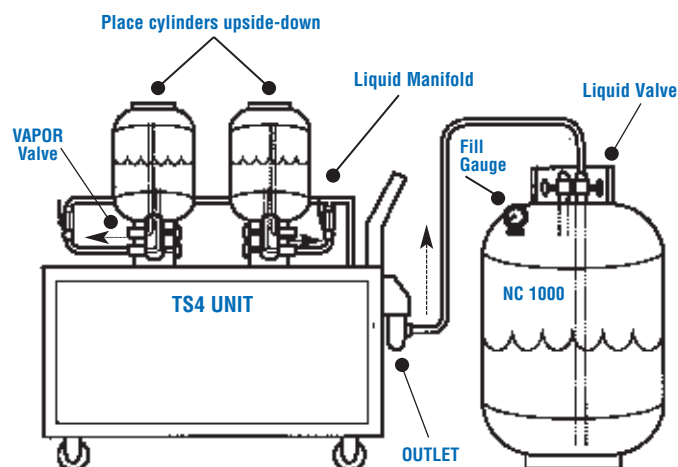
Needs little maintenance. Trouble-free for wholesaler personnel. Just clean mesh strainer as needed.

Versatile Transfers from single valve or dual valve cylinders into larger single valve or dual valve cylinders.

Will prevent mixing refrigerants. Patented pump-out system evacuates the transfer station before pumping a different refrigerant.

Fast Four 30 or 50 pound cylinders are emptied and under vacuum in less than 25 minutes. The TS4 control panel is simple and easy to use.

Vapor Recovery Diagram



DR30 Industrial Drier — For use with R11, R12, R22, R113, R500, R502, 134a & Blends*

The DR30 will dry up to 20,000 pounds of refrigerant to 10 PPM. The DR30 is the best answer to high moisture problems in refrigerant charges of 200 pounds or more.

The DR30 is convenient—there is no need to change blocks. Fill this drier with NRP 30 pound desiccant charge, part number MS30, then cycle refrigerant to be dried, until desired level of moisture is maintained.

Unit Weight: 217 lbs.

Shipping Weight: 247 lbs.

MS30

MS30 desiccant can be used with R11, R12, R22, R113, R500, R502, R134a and Blends.

One 30 pound charge of MS30 will remove and hold approximately 5 pounds of water.

Shipping Weight: 32 lbs.



DR30



MS30

* May not be applicable for all refrigerant blends. Consult factory for proper application.

NATIONAL REFRIGERATION PRODUCTS

LIQUID REFRIGERANT PUMPS

PRACTICAL APPLICATIONS FOR LIQUID REFRIGERANT PUMPS

I. Recovery - system to cylinder transfer:

Fast, safe and portable liquid refrigerant removal without venting. Saves wear to tear on vapor recovery units. Liquid pump and small vapor recovery unit does the job of a large recovery machine at a fraction of the cost. Upgrading unsealed recovery systems to sealed units. Permanent recovery pump installations

II. Charging - cylinder to system transfer:

Fast, safe and portable filling systems, on production line or in the field. Charging system to 300 PSI differential.

III. Consolidation - cylinder to large cylinder transfer:

Permits emptying of small cylinders on the spot and reusing or returning to the customer. When the cylinder will be reused for the same refrigerant, the residual vapors (4% of cylinder capacity) can be left behind. Reduces number of cylinders required in inventory. Reduces freight and paperwork for reclaim programs.

IV. Distribution - large cylinder to service cylinder transfer:

Economic purchase of refrigerant. Simplifies handling and storage for service fleet. Fill cylinder(s) in refrigerant processing plants.

V. Filtration - refrigerant or oil in cylinders or systems:

Circulate through filter/drier to clean liquids. Reduce down time by filtering with system on line. Extend service intervals and reduce maintenance.

Flow Ratings:

Liquid pumps are typically rated in gallons/min. and their capacity is determined by measurements made on water or light oils. To convert from gpm to lbs./min. multiply the gpm rating by the density (lb/gal) of the refrigerant (chart below). Since vapor is almost always present, the actual flow is often quite a lot lower. Tests have indicated that a refrigerant pump capacity is reduced by 5 to 40% due to vapor displacing the liquid in actual field conditions where restrictions have been minimized. A sub cooler on the suction side reduces vapor formation and is an effective way of increasing flow rate.

| Refrigerant No. | 114 | 12 | 502 | 113 | 500 | 11 | 22 | 121 | 123 | 134a | 404 | 507 |
|-----------------|------|------|------|------|-----|------|-----|-----|-----|------|-----|-----|
| Density lb./gal | 12.0 | 10.8 | 10.2 | 13.0 | 9.5 | 12.2 | 9.8 | | | | | |

Maximizing Capacity:

Using a larger pump often will not yield higher flow rates because a larger pump merely creates more vapor that displaces the liquid. The following chart can be used as a guide to determine the maximum practical pump size to install.

| Diameter of smallest passage on inlet side of the pump (inches) | Flare size I.D. inches | Rated flow lbs./min. ideal conditions (1) | Approx. flow lbs./min. with equalizer line (2) | Approx. flow lbs./min. without equalizer line (2) |
|---|------------------------|---|--|---|
| .22 | 3/8 | 38 | 20 | 10 - 15 |
| .22 | 1/2 | 38 | 24 | 12 - 18 |
| .62 | 5/8 | 130 | 40 | 20 - 30 |
| .75 | 3/4 | 130 | 80 | 45 - 60 |

(1) Rated flow is with a vapor pressure equalizer line and no vaporization present

(2) Typical flow for average hook up using a vapor pressure equalizer line

(3) Without a vapor pressure equalizer line, flow will also be dependent on discharge pressure and can be less than half of rated flow.

Special pumps are available in sizes rated to 275 lb/min.

If an equalizer cannot be used, keep flow rates per minute to less than 2.5% of the tank's capacity. For example a 1,000 lb. cylinder can handle up to 25 lbs./min. without excessive cavitation, depending on temperature and inlet line restrictions.

Extended Life:

Larger motors are available for higher pressure operation, but the best method is an efficient one that reduces the line restrictions to minimize load on the pump and motor and maximizes net flow rate.

Lubrication can be void of lubricants and refrigerants provide very little lubrication to the pump. Modular Products Inc. liquid refrigerant pumps are designed and constructed such that the wearing components minimize the need for lubrication.

Cavitation is inevitable when pumping low boiling point liquids and some pump damage may occur. Cavitation damage looks like pitting erosion of the parts on the inlet side of the pump, especially on sharp edges. Many Modular Products, Inc. liquid refrigerant gear pumps that have been in service for extended periods of time show no evidence of such damage when used properly.

Chemical attack of components is possible. Elastomers must be compatible with the refrigerant being pumped and compressor oils. Acids such as HF and HCL form when water is present. Decomposition can form dangerous by-products (mostly acids) and is generally due to exposing the refrigerant to high temperatures from flames, heater or motor burnouts. The pump should be cleaned thoroughly if exposed to acids to reduce corrosion damage. If in process the pump will continuously be exposed to high concentrations of acids consider using a Modular Products, Inc. stainless steel pump configured for liquid refrigerant pumping.

Solids such as rust, welding debris, dirt, wood chips etc. are invitation to pump seizure, use a 40 mesh strainer on the inlet to protect the pump.

Storage always add some compressor oil to pump and seal and/or cap all ports and lines from atmosphere to reduce rust and corrosion between use.

NATIONAL REFRIGERATION PRODUCTS

LIQUID REFRIGERANT PUMPS

LP11 Liquid Refrigerant Pump —

For use with R11 and R113

To recover 100 lbs. or more.



This fast and trouble free 1/2 H.P. self-priming pump has a flow rate of 30 pounds of R11 per minute. It is well suited for large commercial applications that have a charge of several hundred pounds to sometimes more than 1000 pounds of R11 or R113.

The LP11 pump should never be run with vapors or the seals will be damaged. The LP11 pump has BUNA-N seals and a maximum discharge pressure of 40 PSI.

The LP11 must not be used with R12 or other high pressure refrigerants.

For best results use NRP Hose Kit Model HK11 and place the pump at a lower elevation than the chiller.

Not for use with R123 which will damage the BUNA-N seals.

Specifications

Capacity: 30 lbs./min

Power: 1/2 H.P., 115V, 60HZ

Unit Weight: 12.5 Lbs.

Shipping Weight: 13.5 Lbs.

Dimensions: 6"W x 10"L x 8"H

Connections: 3/4" Male Hose

LP12 Liquid Refrigerant Pump —

For use with R12

To recover 100 lbs. or more.

This 1/3 H.P., maintenance free, self-lubricating vane pump has a flow rate of approximately 16 pounds of R12 per minute. The LP12 has a working pressure of 200 PSI and should not be used to transfer R22 or R502. The net positive suction head is -6 feet.



Specifications

Capacity: 16 lbs./min

Power: 1/3 H.P., 115V, 60HZ

Unit Weight: 18.5 Lbs.

Shipping Weight: 20 Lbs.

Dimensions: 6"W x 12"L x 8"H

Connections: 1/2" FPT

LP22 Liquid Refrigerant Pump —

For use with R11, R12, R22, R113, R123, R500, R502, R134a & Blends*

To recover 100 lbs. or more.



The LP22 is a gear pump with neoprene seals and a MOP of 300 PSI with a DWP of 150 PSI. This self-lubricated pump has a flow rate of 20 pounds per minute and is supplied with a 1/2 H.P. motor.

3/8" or 1/2" hoses are required.

Specifications

Capacity: 20 pounds per minute

Power: 1/2 H.P., 115V, 60HZ

Unit Weight: 33 Lbs.

Shipping Weight: 37 Lbs.

Dimensions: 10"W x 12"L x 8"H

Connections: 3/8" FPT

Available: 1/2 H.P., 220V, 50HZ, LP22E

LPO Model

To transfer refrigeration oil.

Recovers 1.2 gal. per minute



The LPO is a gear pump which works like our LP22 model. It has a MOP of 200 PSI and a differential pressure of 100PSI. It is supplied with a 1/2 H.P. motor.

Specifications

Capacity: 1.2 gal./min

Power: 1/2 H.P., 115V, 60HZ

Unit Weight: 31 Lbs.

Shipping Weight: 35 Lbs.

Dimensions: 10"W x 12"L x 8"H

Available: 1/2 H.P., 220V, 50Hz, LPOE

Connections: 3/8" FPT

* May not be applicable for all refrigerant blends.
Consult factory for proper application.

RECOVERY CYLINDERS

Standard cylinders for use with R11, R12, R22, R113, R114, R134a, R500, R502 and Blends*

Very high pressure cylinders for use with R13, R23, and R503

All NRP recovery cylinders meet ARI guidelines and DOT specifications.

It is very important to evacuate the recovery cylinders and purge the hoses to avoid introducing non-condensables in cylinders which would increase the discharge pressure. Also, a separate cylinder must be used for each type of refrigerant to avoid cross contamination.

Caution: for safety reasons it is very important to fill all cylinders by weight in accordance with the cylinder supplier's instructions and ARI guidelines.

- Do not overfill cylinders. Do not fill to more than 80% of the cylinder's rated capacity.
- Do not mix different refrigerants in one cylinder. Mixtures cannot be separated.
- Always wear rubber gloves and safety goggles when transferring refrigerant.
- Always use cylinders approved for recovery.
- Cylinder for use with R410A must be DOT spec 4BA400.
- NC30, NC30U, NC50, NC50U are **approved for R410A**.



STANDARD RECOVERY CYLINDERS

| MODEL | NOMINAL CAP (lbs) | WATER CAP (lbs) | MAXIMUM RECOVERY CAP @80% (lbs) | VALVES | USE WITH: |
|----------------------------|-------------------|-----------------|---------------------------------|------------|--|
| NC30 | 30 | 26.2 | 24 | One 2 Port | Standard Recovery Units |
| NC30U (with Float Switch) | 30 | 26.2 | 24 | One 2 Port | GS2001, LV2001 LV1CUL, FF1UL, GS1UL, AR1UL, ULV2CMPT (Other Units with Float Cords) |
| NC50 | 50 | 47.7 | 40 | One 2 Port | Standard Recovery Units |
| NC50U (with Float Switch) | 50 | 47.7 | 40 | One 2 Port | GS2001, LV2001 LV1CUL, FF1UL, ULV2CMPT, GS1UL, AR1UL, VR11 (Other Units with Float Cords) |
| NC100 | 125 | 122 | 100 | One 2 Port | Standard Recovery Units |
| NC240 | 240 | 240 | 192 | Two 1 Port | Standard Recovery Units |
| NC240U (with Float Switch) | 240 | 240 | 192 | Two 1 Port | Units with Overfill Protection |
| NC1000 (with Float Gauge) | 1,000 | 1,000 | 800 | Two 1 Port | Standard Recovery Units |

R11 LARGE RECOVERY CYLINDERS

| | | | | | |
|---------------------------|-----|-----|-----|------------|------|
| N250T (with Float Switch) | 250 | 250 | 200 | Two 1 Port | VR11 |
| N665T (with Float Switch) | 665 | 665 | 532 | Two 1 Port | VR11 |

Models N250T and N665T are supplied with protective collars (top and bottom), 0-100 PSIG gauge, pressure relief valve, sight glass @ 1/3 and 2/3 levels, non-condensible purge tap, float switch.

VERY HIGH PRESSURE RECOVERY CYLINDERS

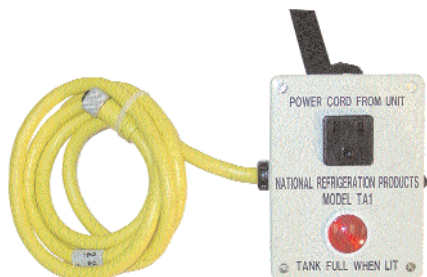
| | | | | | |
|------|-----|------|----|------------|-----------------------------|
| NC23 | 28 | 23.8 | 23 | One 1 Port | R13, R23, R503 – LP13, VR13 |
| NC80 | 106 | 89 | 84 | One 1 Port | R13, R23, R503 – LP13, VR13 |

* May not be applicable for all refrigerant blends. Consult factory for proper application.

NATIONAL REFRIGERATION PRODUCTS

ACCESSORIES

TA1 Tank Alarm



Features

The **TA1** provides positive shut-off for recovery units without tank overfill protection. With power cord-to-tank adapters (see below) the **TA1** can be used on any tank utilizing a float. The **TA1** comes with 5 feet of float cord and a velcro strap for easy mounting.

Specifications

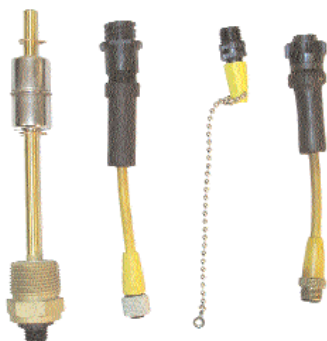
Power:

- 120 VAC
- 15 AMPS
- 60 Hz

Enclosure Size:

- 4.33" High
- 2.33" Wide
- 1.74" Deep

Tank Adapters



NC50 Float - Replacement float mechanism for positive shut-off cylinders (30#, 50#)

NULV Tank P - (4) Pin male amp by (3) pin female Brad Harrison connectors, it adapts NRP 30lbs and 50lbs tanks to an OZ, Thermal, Reklame, Aes-Ntron and CPS unit cords.

NOZ Tank P - (4) Pin female amp by (3) pin male Brad Harrison connectors, it adapts an OZ, Thermal, Reklame, Aes-Ntron and CPS

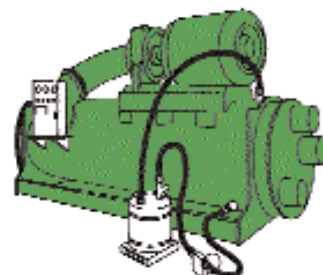
NULVP - Completes wiring for an 80% fill protective circuit, is compatible with Robinair, Sercon, Trane, Katy, CFC-TEK, Dupont and other manufacturers' units.

Hose Kit

For use with R11 and R113

HK11

(3) 3/4" Hoses with Accessories for use with LP11 Pump
Unit Weight - 20 lbs.



Sight Glass

SG14 Sight Glass 1/4"

1/4" MFL x 1/4" FFL

SG38 Sight Glass 3/8"

3/8" MFL x 3/8" FFL



Filter/Drier

052 - Filter Drier

1/4" MFL x 1/4" FFL
Master Carton - 25 Pcs

053 - Filter Drier

3/8" MFL x 3/8" FFL
Master Carton - 25 Pcs



RH - 48 Filter Core

High Capacity Refrigerant Recovery
Recycling Filter Drier Core
Fits 48 cu. in. filter shells.
For Use with RLV700 & RAD700.



NATIONAL REFRIGERATION PRODUCTS

1/4" REFRIGERANT HOSES

NRP Charging Hoses are nylon lined, have low porosity and exceed Goodyear specifications for permeability. They are UL approved. Suitable for R12, R134a, R22, R500, R502, R410A and HCFC blends.



Max W.P. 800 Psi
Burst 4000 Psi

| Part No. | Color | Length* |
|----------|--------|---------|
| N36R | Red | 36" |
| N36B | Blue | |
| N36Y | Yellow | |
| N48R | Red | 48" |
| N48B | Blue | |
| N48Y | Yellow | |
| N60R | Red | 60" |
| N60B | Blue | |
| N60Y | Yellow | |
| N72R | Red | 72" |
| N72B | Blue | |
| N72Y | Yellow | |
| N96R | Red | 96" |
| N96B | Blue | |
| N96Y | Yellow | |
| N144R | Red | 12' |
| N144B | Blue | |
| N144Y | Yellow | |
| N300R | Red | 25' |
| N300B | Blue | |
| N300Y | Yellow | |
| N600R | Red | 50' |
| N600B | Blue | |
| N600Y | Yellow | |

1/4" POSITIVE SHUT-OFF REFRIGERANT HOSES



| Part No. | Color | Length* |
|----------|--------|---------|
| NBV36Y | Yellow | 36" |
| NBV60Y | Yellow | 60" |
| NBV72Y | Yellow | 72" |

1/4" HOSE KITS Contains 1 each Red, Blue and Yellow Hose.



| Part No. | Length* |
|----------|---------|
| N36RBY | 36" |
| N48RBY | 48" |
| N60RBY | 60" |
| N72RBY | 72" |
| N96RBY | 96" |

1/4" REFRIGERANT HOSES WITH BALL VALVE



Refrigerant hose with ball valve for positive shut-off of refrigerant flow. Can be connected to other hose lengths.

| Part No. | Hose Size | Length* |
|----------|-----------|---------|
| N6BV | 1/4" | 6" |
| N10BV | 1/4" | 10" |

*Consult NRP for custom lengths on all refrigerant hoses.

NATIONAL REFRIGERATION PRODUCTS

3/8" HEAVY DUTY BLACK REFRIGERANT HOSES



Max W.P. 800 psi
Burst 4000 psi

| Part No. | Length* | Fittings |
|-----------|---------|------------------------|
| NHD3836S | 36" | 2-straight connections |
| NHD3848S | 48" | |
| NHD3860S | 60" | |
| NHD3872S | 72" | |
| NHD3896S | 96" | |
| NHD38144S | 12' | |
| NHD38300S | 25' | |
| NHD38600S | 50' | |

UL approved. Suitable for R12, R134a, R22, R500, R502, R410A & HCFC blends.

CORE REMOVER TOOL



CRT

1/4" Schrader Core Removal Tool provides system access without venting.

| Part No. | Description | Quantity |
|----------|-----------------------|----------|
| CRT | Core Remover Tool | 1 |
| CD5555 | CRT O-Ring Repair Kit | 1 |

SHUT-OFF VALVES



NBV14MM

These simple but effective ball shut-off valves make tank and unit switching easy and fast. Valves close the hoses and prevent unnecessary venting connections.

| Part No. | Description | Quantity |
|----------|---------------------|----------|
| NBV14MM | 1/4" MFL x 1/4" MFL | 1 |
| NBV14FM | 1/4" FFL x 1/4" MFL | 1 |

PRESSURE GAUGES



| Part No. | Description | Color |
|----------|--|-------|
| N2000 | High Side Pressure Gauge 0-500# | Red |
| N2001 | Low Side Compound Gauge, 30" - 120# | Blue |
| N2002 | Low Side Gauge 30" - 120# R507, R404A, R134a | Blue |
| N2003 | High Side Gauge 0 - 500# R507, R404A, R134a | Red |
| N2004 | High Side Gauge 0 - 800# R22, R407C, R410A | Red |
| N2005 | Low Side Gauge 30" - 250# R22, R407C, R410A | Blue |

HOSE ACCESSORIES



NH06KIT

| Part No. | Description | Quantity |
|----------|--|----------|
| NH06KIT | 3/8" Seal Gasket 10 pcs., Depressor 10 pcs., 1/4" Seal Gasket 10 pcs., 3/8" Finger Tight O-Ring Cap 2 pcs., Valve Core 5 pcs., Plastic Valve Core Tool 2 pcs., 1/4" Finger Tight O-Ring Cap 6 pcs. | 1 |
| NABKIT | Anti-Blow Back Fitting Repair Kit | 1 |
| NH05001 | Barb Head with O-Ring, Replacement O-Rings | |
| NH03016 | 1/4" Hose Gaskets | 10/pack |
| NH05007 | Valve Cores | 5/pack |
| NH01013 | Hose Depressors | 10/pack |
| | 3/8" Hose Gaskets | 10/pack |

*Consult NRP for custom lengths on all refrigerant hoses.

NATIONAL REFRIGERATION PRODUCTS

1/4" ANTI-BLOW BACK REFRIGERANT HOSES



| Part No. | Color | Length* |
|----------|--------|---------|
| NAB36R | Red | 36" |
| NAB36B | Blue | |
| NAB36Y | Yellow | |
| NAB48R | Red | 48" |
| NAB48B | Blue | |
| NAB48Y | Yellow | |
| NAB60R | Red | 60" |
| NAB60B | Blue | |
| NAB60Y | Yellow | |
| NAB72R | Red | 72" |
| NAB72B | Blue | |
| NAB72Y | Yellow | |

1/4" ANTI-BLOW BACK REFRIGERANT HOSE KITS



| Part No. | Length* |
|----------|---------|
| NAB36RBY | 36" |
| NAB48RBY | 48" |
| NAB60RBY | 60" |
| NAB72RBY | 72" |

1/4" ANTI-BLOW BACK HOSE ADAPTERS



Automatically shuts off the hose to reduce a loss of refrigerant.

| Part No. | Description |
|----------|---|
| NABS | Straight ABB Adapter, 1/4" FFL x 1/4" MFL |
| NAB45 | 45° ABB Adapter, 1/4" FFL x 1/4" MFL |
| NAB90 | 90° ABB Adapter, 1/4" FFL x 1/4" MFL |

1/4" HEAVY DUTY BLACK REFRIGERANT CHARGING/ VACUUM HOSES



Max W.P. 800 psi
Burst 4000 psi

Suitable for R12, R134a, R500, R502, R410A and HCFC blends.
Pulls 75 microns vacuum or better.

| Part No. | Length* |
|----------|---------|
| NHD1436 | 36" |
| NHD1448 | 48" |
| NHD1460 | 60" |
| NHD1472 | 72" |

1/4" POSITIVE SHUT-OFF HEAVY DUTY REFRIGERANT HOSES

NHD1436BV



| Part No. | Length* |
|-----------|---------|
| NHD1436BV | 36" |
| NHD1448BV | 48" |
| NHD1460BV | 60" |
| NHD1472BV | 72" |

*Consult NRP for custom lengths on all refrigerant hoses.

NATIONAL REFRIGERATION PRODUCTS

COIL CLEANER - KLEEN BRITE



KB1G

Kleen Brite's acid-based condenser cleaner and brightener is formulated to make difficult jobs easy. Fast acting and safe when used as directed, it makes dirty fins and coils look like new. Safe on all metals. (Pink color)

| Part No. | Description | Quantity |
|--------------|-----------------------------------|----------|
| KB1G | Kleen Brite, 1 Gallon Container | 1 |
| KB2G | Kleen Brite, 2.5 Gallon Container | 1 |
| KB55G | Kleen Brite, 55 Gallon Container | 1 |

COIL CLEANER - KLEEN COIL



KN1G

A favorite with service technicians. Kleen Coil is a non-acidic and self-rinsing evaporator cleaner that safely cleans away grime, oil, grease and dirt quickly. Kleen Coil is easy to use because no rinsing is required. Safe on all metals. (USDA Authorized - Green color)

| Part No. | Description | Quantity |
|--------------|----------------------------------|----------|
| KN1G | Kleen Coil, 1 Gallon Container | 1 |
| KN2G | Kleen Coil, 2.5 Gallon Container | 1 |
| KN55G | Kleen Coil, 55 Gallon Container | 1 |

COIL CLEANER - ALKA KLEEN



AN1G

Save money with the strongest non-acid condenser cleaner and brightener on the market. Alka Kleen's heavy duty foaming formula can be diluted to cover larger areas economically. Removes heavy grease, dirt, smoke, film and insects. Safe on all metals. (Blue color)

| Part No. | Description | Quantity |
|--------------|----------------------------------|----------|
| AN1G | Alka Kleen, 1 Gallon Container | 1 |
| AN2G | Alka Kleen, 2.5 Gallon Container | 1 |
| AN55G | Alka Kleen, 55 Gallon Container | 1 |

COIL CLEANER - MULTI KLEEN



MK1G

N4860

Use Multi Kleen to clean condenser or evaporator coils, metal cabinets, refrigeration parts and components. Strong yet gentle for metal when used as directed. Multi Kleen is a product that does it all. (Yellow color)

| Part No. | Description | Quantity |
|--------------|-----------------------------------|----------|
| N4860 | Multi Kleen, 18 Oz. Aerosol | 1 |
| MK1G | Multi Kleen, 1 Gallon Container | 1 |
| MK2G | Multi Kleen, 2.5 Gallon Container | 1 |
| MK55G | Multi Kleen, 55 Gallon Container | 1 |

ICE MACHINE CLEANERS



NS1G

NS16OZ

- Removes scaled deposits from storage bins, tops, bottoms and the side extrusions found on ice machines.
- Made to Manitowoc specification (Nickel Safe)
- USDA Authorized (Nickel Safe)

| Part No. | Description | Size |
|---------------|--------------------------------------|----------|
| NS16OZ | Nickel Safe Ice Machine Cleaner | 16 Oz. |
| NS1G | Nickel Safe Ice Machine Cleaner | 1 Gallon |
| NIMC | General Purpose, Ice Machine Cleaner | 8 Oz. |
| NIMC1G | General Purpose, Ice Machine Cleaner | 1 Gallon |

COIL FLUSH



Specifically formulated for use after a compressor failure or burnout in refrigeration and air conditioning systems.
Replaces R11, R12, chlorinated and flammable solvents.
Breaks down carbon deposits, sludge, tar, oil and grease.

Product Advantages

- CFC Free
- Non-chlorinated
- Low V.O.C.
- Phased evaporation rate
- Non-flammable
- Leaves no residue
- Will not contaminate oil or refrigerant
- Biodegradable
- Eliminates any acids
- Safe and easy to use

| Part No. | Description | Size |
|-------------|---|---------------|
| CF20 | Internal Coil System Cleaner and Acid Remover | 1/5/55 Gallon |
| CF40 | Internal Coil Cleaner and Acid Remover for cascade and super low temp systems | 1/5/55 Gallon |

QWIKCHECK, QWIKSHOT INJECTOR & QWIKSHOT

Performs on-site refrigerant and oil acidity tests on operating systems, burnouts, and recovered refrigerant. Tests to ARI-700. Limit of 1 PPM.



Product Advantages

- Simple color change
- Meets EPA venting rules
- Works with all refrigerants
- Results in 5 seconds
- Field test existing systems
- Throw-away design
- Tests to 1 PPM
- Compatible with all oils
- Low cost
- Connects to service valve

| Part No. | Description | Quantity |
|----------------|--|----------|
| NQT2000 | 5 Second Acid Test for Refrigerant & Oil | 1 |

This preventative maintenance tool allows the technician to perform annual preventative maintenance acid removal without breaking down the system.



Product Advantages

- Rugged aluminum construction
- Holds one QwikShot treatment
- Used with standard manifold gauge
- Drip proof, no spill design

| Part No. | Description | Quantity |
|----------------|---|----------|
| NQT2510 | Performs Preventative Maintenance on Operating Hermetic Units | 1 |

Removes acid from oil and component surfaces leaving no residue or contamination in the system.



Product Advantages

- Concentrated-4 treatments per box
- Use only as much as you need
- Leaves no residue or contamination
- Safe for all refrigeration components
- Treats up to 12 Ton Unit
- Works with all refrigerants and oils
- Can treat charged hermetic units

| Part No. | Description | Quantity |
|----------------|-----------------------|----------|
| NQT2500 | QwikShot Acid Removal | 4/Box |

NATIONAL REFRIGERATION PRODUCTS

BLAST KLEEN Condenser Coil Cleaner



Instantly penetrates and dissolves grease, oil and dirt deposits. No washing, wiping or flushing. Heavy spray cleans through mechanical and chemical solvent action. Evaporates leaving no oily or greasy film. Safe to use on insulated and painted surfaces. Citrus scented.

| Part No. | Description | Net Weight |
|--------------------|------------------------------------|------------|
| BLAST KLEEN | Blast Kleen Condenser Coil Cleaner | 19 Oz. |

FOOD GRADE SILICONE



Prevents sticking and grinding on ice machine freezing plates, feed racks, conveyors, dairy machinery, knives and other processing equipment. Made with FDA approved ingredients. Formulated for use in food-processing applications. This spray deposits a thin even film of silicone which is tasteless, odorless and non-toxic. It may be used on food contact surfaces and in direct contact with food in such a manner that no more than 10 PPM is imparted to food, milk excluded.

| Part No. | Description | Net Weight |
|--------------|---------------------|------------|
| N4840 | Food Grade Silicone | 10.5 Oz. |

PENETRATING LUBRICANT



Penetrates and frees rusted parts, nuts, bolts, electrical switches, control cables and locks, etc. Lubricates, stops squeaks and binds. Prevents rust and corrosion on all metals. Protects machinery, tools and instruments. It is non-toxic and non-irritating. Will not harm rubber, paint or plastic. Contains no acrylic, kerosene derivatives or silicones.

| Part No. | Description | Net Weight |
|--------------|-----------------------|------------|
| N4855 | Penetrating Lubricant | 12 Oz. |

ELECTRICAL CONTACT CLEANER



Cleans precision, electrical and electronic equipment. Instant solvent and cleaning action quickly removes grease and dust. Restores and maintains original efficiency of electrical contacts.

| Part No. | Description | Net Weight |
|--------------|----------------------------|------------|
| N4830 | Electrical Contact Cleaner | 16 Oz. |

ELECTRIC MOTOR CLEANER



Instantly penetrates, dissolves grease, oil and dirt deposits. No washing, wiping or flushing. Heavy spray cleans through mechanical and chemical solvent action. Evaporates leaving no oily or greasy film. High dielectric constant. Excellent for all kinds of electrical equipment including electric motors, generators, oil burners and fans.

| Part No. | Description | Net Weight |
|--------------|------------------------|------------|
| N4835 | Electric Motor Cleaner | 16 Oz. |

NATIONAL REFRIGERATION PRODUCTS

SPRAY ADHESIVE



A contact adhesive for permanent or temporary bonding of most surfaces. It can be used on paper, foil, cardboard, cloth, leather, glass, mylar, acetate sheet, foam rubber, urethane foam, styrofoam and light metal sections. To form a permanent bond, simply spray a uniform film over both bonding surfaces, allow one minute for surface to become tacky and then press together. Temporary bonds can be made by application to only one surface.

| Part No. | Description | Net Weight |
|----------|----------------|------------|
| N4820 | Spray Adhesive | 10 Oz. |

LEAK DETECTORS



NRP leak detectors are designed for fast and easy location of gas leaks. NRP Blue leak detector can be used down to -30°F. NRP fluorescent leak detector is well suited for poorly lit areas. NRP clear leak detector is extra thick to stay in place and can be utilized down to -5°F. NRP gas leak detectors are easy to use because of their high viscosity and foaming characteristics.



| Part No. | Description | Net Weight |
|----------|---|------------|
| NLDB | Blue Leak Detector Spray | 16 Oz. |
| NLDB1G | Blue Spray Refill | 1 Gallon |
| NLDC | Clear Leak Detector with Dauber | 8 Oz. |
| NLDC1G | Clear Leak Detector Refill | 1 Gallon |
| NLDF | Fluorescent Leak Detector with Dauber | 8 Oz. |
| TB32OZ | True Blue, High Viscosity, Low Temp Leak Detector | 32 Oz. |

OILERS

Zoom Spout Oiler

NRP's all purpose turbine oil for use on: electric motors, bushings, tools, linkages, hinges, heaters, bearings, air conditioners, engines, fans, switches, shafts, etc.

- Paraffin base/non-gumming
- Rust and oxidation inhibited
- Use on electric motor bearings (1/5 to 5 H.P.)
- Withstands high temperatures
- A must for heaters and blowers



Zoom Spout Rust Buster

NRP's "Rust Busting" solution loosens rusty or corroded parts in seconds. Rust Buster quickly frees "frozen" fittings, bolts, nuts, shafts, bushings, etc.

- Ideal for reaching hard-to-reach spots
- No lingering odor

| Part No. | Description | Quantity |
|----------|------------------------|----------|
| DO1 | Zoom Spout Oiler | 12/Case |
| DR1 | Zoom Spout Rust Buster | 12/Case |

NATIONAL REFRIGERATION PRODUCTS

DEGREASERS



- Environmentally friendly, heavy duty cleaner and degreaser.
- Fast drying, non-conductive, leaves no residue, with no water rinse needed.
- Citrus scented.

| Part No. | Description | Quantity |
|----------------|--------------------------------|----------|
| NDS1G | HD Degreasing Solvent | 1 Gallon |
| NDS17OZ | HD Degreasing Solvent, Aerosol | 17 Oz. |

WATER TREATMENT



- Biocide for use in industrial recirculating water cooling towers.
- Destroys and prevents the growth of algae, bacteria and fungi.
- Concentrated formula for economical use.

| Part No. | Description | Quantity |
|--------------|-----------------|----------|
| NAD1G | Algae Destroyer | 1 Gallon |

INDUSTRIAL SCALE DISSOLVER AND INHIBITOR



Scale Dissolver and Inhibitor

- Removes severe build up of lime and scale in cooling towers and evaporative condensers.
- When dissolved, PH color indicator is activated.
- Contains metal corrosion inhibitors.

| Part No. | Description | Quantity |
|--------------|-------------------------------|----------|
| NSR1G | Scale Dissolver and Inhibitor | 1 Gallon |
| NSR5G | Scale Dissolver and Inhibitor | 5 Gallon |

COMMERCIAL SCALE REMOVER AND DISSOLVER



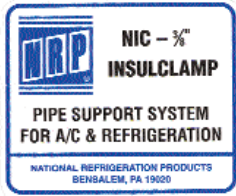
Lime Out

- Utilized for multi-purpose and scale removal of water coils, pipes, steam tables, ice machines, aluminum equipment and much more.
- No fume formula.

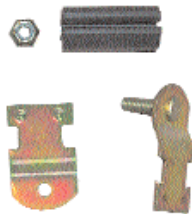
| Part No. | Description | Quantity |
|----------------|-----------------------------|----------|
| LIMEOUT | Scale Remover and Dissolver | 1 Gallon |

NATIONAL REFRIGERATION PRODUCTS

INSULCLAMPS



NIC-1/4

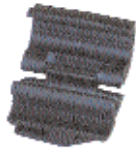
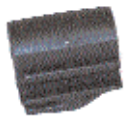


Insulclamps provide a simple yet excellently engineered solution to the problem of effective pipe support in the air conditioning and refrigeration industries.

- Complete range of 14 sizes to fit 1/4" to 4-1/8" OD pipes
- Insulates against heat loss and reduces vibrations
- Plastic inserts are designed to withstand temperatures between -22°F and +257°F
- Easy and quick to install with integral lock nuts
- All metal parts are zinc plated and color passivated to resist corrosion
- Fixes to standard channel

| Part No. | Description | Quantity |
|-----------|-------------|----------|
| NIC-1/4 | 1/4" OD | 1 |
| NIC-3/8 | 3/8" OD | 1 |
| NIC-1/2 | 1/2" OD | 1 |
| NIC-5/8 | 5/8" OD | 1 |
| NIC-3/4 | 3/4" OD | 1 |
| NIC-7/8 | 7/8" OD | 1 |
| NIC-1-1/8 | 1-1/8" OD | 1 |
| NIC-1-3/8 | 1-3/8" OD | 1 |
| NIC-1-5/8 | 1-5/8" OD | 1 |
| NIC-2-1/8 | 2-1/8" OD | 1 |
| NIC-2-5/8 | 2-5/8" OD | 1 |
| NIC-3-1/8 | 3-1/8" OD | 1 |
| NIC-3-5/8 | 3-5/8" OD | 1 |
| NIC-4-1/8 | 4-1/8" OD | 1 |

QUICK POSITIONING CLIPS



The QPC is a fast and effective pipe support system designed to save the installer time and money with its ease of use features.

- Available in 8 sizes from 1/4" to 1-3/8"
- No tools required, easy installation to channel
- Positive fixing, simply twist clip through 90°
- Fits all standard channels
- Clip has insulation value
- Material withstands temperatures from -22°F to +275°F
- 10 pieces per bag

| Part No. | Description | Quantity |
|-----------|-------------|----------|
| QPC-1/4 | 1/4" OD | 10 |
| QPC-3/8 | 3/8" OD | 10 |
| QPC-1/2 | 1/2" OD | 10 |
| QPC-5/8 | 5/8" OD | 10 |
| QPC-3/4 | 3/4" OD | 10 |
| QPC-7/8 | 7/8" OD | 10 |
| QPC-1-1/8 | 1-1/8" OD | 10 |
| QPC-1-3/8 | 1-3/8" OD | 10 |

NATIONAL REFRIGERATION PRODUCTS

CORK INSULATION TAPE



NRP cork insulation tape will prevent condensation and dripping of cold pipes. Cork insulation tape can be used in a wide range of applications for wrapping cold or hot pipes, valves and fittings from -20°F to +160°F. NRP cork insulation tape assures you easy and long lasting installation. Tape stays flexible to -20°F and no extra adhesives are needed. NRP rubberized cork tape adheres firmly to metal and to itself.

Specifications:

Composition: Synthetic Rubber-Asphalt

Filler: Cork, contains no asbestos

Solids: Approximately 99.8% (ASTM C771-74)

Color: Black (ASTM D1729-69)

Weight: Approximately 6 lbs. per gallon

Odor: Slight, non-contamination to sweet butter

Water Absorption: 0.02% (ASTM 1056)

Thermal Conductivity: 1.26 BTU/hr.(sq.ft.)

(°F/in.) (ASTM C177-76)

Temperature Range: -20°F to +190°F

| Part No. | Description | Size | Case Qty. |
|-------------|-------------------------------|----------------|-----------|
| NRP1 | 30' roll, 1/8" thick, 2" wide | 1-30' Roll/Box | 12 |

FOAM INSULATION TAPE



NRP foam insulation tape will prevent pipe condensation when used as recommended. Can be used in a wide range of applications for wrapping cold and hot pipes, valves and fittings up to 180° F. NRP Foam Insulation Tape assures you an easy and long lasting installation because of its specially formulated adhesive. NRP pressure sensitive tape adheres firmly to metal and to itself.

Physical Properties

Thermal Conductivity: 0.27 K Factor. (ASTM C 177)

Water Absorption, by volume: 0.2% (ASTM C 209)

Thickness to Prevent Pipe Sweat

| Air Temperature & Relative Humidity | Pipe Temperature | |
|-------------------------------------|-------------------------------|------------------------------|
| | 50°F | 35°F |
| 80°F & 50% RH | Single Layer | 50% Overlap |
| 80°F & 70% RH | 50% Overlap plus Single Layer | 50% Overlap plus 50% Overlap |

| Part No. | Description | Size | Case Qty. |
|-----------|-------------------------------|----------------|-----------|
| N5 | 30' roll, 1/8" thick, 2" wide | 1-30' Roll/Box | 12 |

SEALING GUM & CORDS



NRP Sealing Gum and Cords can be easily pressed in place by hand to seal out air and moisture. NRP Sealing Gum adheres to clean and dry wood, metal, plastic and glass. It can also be painted.

Specifications

Base: Non-drying, synthetic polymers

Filler: Inert materials

Color: Off-White/Grey

Odor: Non-contaminating to sweet butter

Wt. Per Gallon: 13 lbs.

High resistance to: Water, water vapor, physical shock, temperature (service range -30°F to +220°F), mild acids and bases.

Excellent adhesion to: Wood, metal, plastic and glass.

Consistency: Soft, pliable, thumbable. Consistency is tested with standard penetrometer according to ASTM D217 using 300 gram cone.

Cone penetration, 5 seconds @ 77°F: 11.0-15.0 mm. Modeling clay, a material of similar consistency, tests 6.2. The higher readings show greater penetration and a softer material.

Application

NRP Sealing Gum and Cords are designed to seal refrigeration cabinets and display cases as well as around room air conditioners. It can also be used in a number of commercial or industrial applications to seal metal buildings, trailers and mobile homes, etc.

| Part No. | Description | Case Qty. |
|--------------|--|-----------|
| NRP2 | Sealing Gum. 2 lbs slug per box. | 24 |
| NRP38 | Sealing Cords. 3/8" diameter bead. 25 ft. roll. Individually boxed. | 12 |

MOTORS



CAST IRON, 1-SPEED
SINGLE ROTATION VIEWED
OPPOSITE SHAFT END

51 Frame—3 1/2" Diameter Shaded Pole Single Shaft for Refrigerators, Freezers, Display Cases & Walk-Ins

UL RECOGNIZED
CSA CERTIFIED

Features

- All Angle Operation
- Quiet Operation
- Side Pad Mounting
- 60/50 Hertz
- Long Life Unit Sleeve Bearings
- UL Recognized
- Permanent Lubrication
- 25" Leads
- Continuous Air Over
- Impedance Or Overload Protection
- Packed 12 Per Carton
- CSA Certified

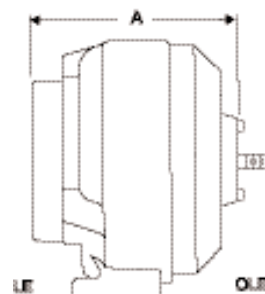
1550 RPM

1/4" THREADED SHAFT – 1/2" LONG

| PART NO. | WATTS OUTPUT | ROT | VOLTS | AMPS | A | SHIP WT. LBS. 12 PER CARTON |
|----------|-----------------|-----|---------|------|--------|--------------------------------|
| NRP5111 | 2.5 | CW | 115 | .30 | 2 1/2" | 29 |
| NRP5211 | 4 | CW | 115 | .40 | 2 1/2" | 29 |
| NRP5212 | 4 | CCW | 115 | .40 | 2 1/2" | 29 |
| NRP5221 | 4 | CW | 208-230 | .20 | 2 1/2" | 29 |
| NRP5222 | 4 | CCW | 208-230 | .20 | 2 1/2" | 29 |
| NRP5311 | 6 | CW | 115 | .50 | 2 1/2" | 37 |
| NRP5312 | 6 | CCW | 115 | .50 | 2 1/2" | 37 |
| NRP5411 | 9 | CW | 115 | .80 | 3" | 41 |
| NRP5412 | 9 | CCW | 115 | .80 | 3" | 41 |
| NRP5421 | 9 | CW | 208-230 | .40 | 3" | 41 |
| NRP5422 | 9 | CCW | 208-230 | .40 | 3" | 41 |
| NRP5811 | 16 | CW | 115 | 1.10 | 3 1/4" | 47 |
| NRP5812 | 16 | CCW | 115 | 1.10 | 3 1/4" | 47 |
| NRP5821 | 16 | CW | 208-230 | .60 | 3 1/4" | 47 |
| NRP5822 | 16 | CCW | 208-230 | .60 | 3 1/4" | 47 |

MOTOR CROSS REFERENCE

| PART NO. | STEVECO | MARS | CPC | EMERSON | GRANGER | GE NUMBER |
|----------|---------|-------|---------|---------|---------|--------------|
| NRP5111 | S5111 | D5111 | MTG5111 | — | 3M472 | 5KSP51AL611 |
| NRP5211 | S5211 | D5211 | MTG5211 | RF115 | 3M275 | 5KSP51AL511 |
| NRP5212 | S5212 | O5212 | MTG5212 | RF103 | 3M274 | 5KSP51AL513 |
| NRP5221 | S5221 | O5221 | MTG5221 | — | — | 5KSP51AL512 |
| NRP5222 | S5222 | O5222 | MTG5222 | — | — | 5KSP51AL514 |
| NRP5311 | S5311 | O5311 | MTG5311 | RF117 | 3M630 | 5KSP51CL501 |
| NRP5312 | S5312 | O5312 | MTG5312 | RF116 | 3M269 | 5KSP51CL502 |
| NRP5411 | S5411 | O5411 | MTG5411 | RF108 | 3M285 | 5KSP51ECL551 |
| NRP5412 | S5412 | D5412 | MTG5412 | RF118 | 3M284 | 5KSP51ECL553 |
| NRP5421 | S5421 | O5421 | MTG5421 | RF110 | 3M286 | 5KSP51ECL552 |
| NRP5422 | S5422 | O5422 | MTG5422 | RF109 | 3M283 | 5KSP51ECL554 |
| NRP5811 | S5811 | O5811 | MTG5811 | RF112 | 3M473 | 5KSP51GL581 |
| NRP5812 | S5812 | O5812 | MTG5812 | RF111 | 3M475 | 5KSP51GL583 |
| NRP5821 | S5821 | O5821 | MTG5821 | RF114 | 3M474 | 5KSP51GL582 |
| NRP5822 | S5822 | O5822 | MTG5822 | RF113 | 3M476 | 5KSP51GL584 |



NATIONAL REFRIGERATION PRODUCTS

CONDENSER FAN MOTORS



CAST IRON CONDENSER FAN MOTORS COMMERCIAL — HEAVY DUTY DESIGN

UL RECOGNIZED
CSA CERTIFIED

NRP 35 and 50 watt condenser fan motors replace GE11 and 21 frame series motors, as well as E.M.S. manufactured motors.

Designed for commercial refrigeration units, large air conditioning units and high air volume applications.

1500 RPM

| PART NO. | WATTS OUTPUT | ROT | VOLTS | AMP | WT. | SHAFT | REPLACES EMS MODEL |
|----------|--------------|-----|---------|-----|-----|--------------|--------------------|
| NRP254 | 35 | CW | 115 | 1.4 | 5.0 | 1/4 X 20 THD | ESPL35EM1 |
| NRP255 | 35 | CCW | 115 | 1.4 | 5.0 | 1/4 X 20 THD | ESPL35EMR1 |
| NRP256 | 35 | CW | 208-230 | .70 | 5.0 | 1/4 X 20 THD | ESPL35EM2 |
| NRP257 | 35 | CCW | 208-230 | .70 | 5.0 | 1/4 X 20 THD | ESPL35EMR2 |
| NRP258 | 50 | CW | 115 | 1.7 | 7.0 | 3/8 X 1 1/2 | ESPL50EM1 |
| NRP259 | 50 | CCW | 115 | 1.7 | 7.0 | 3/8 X 1 1/2 | ESPL50EMR1 |
| NRP260 | 50 | CW | 208-230 | .85 | 7.0 | 3/8 X 1 1/2 | ESPL50EM2 |
| NRP261 | 50 | CCW | 208-230 | .85 | 7.0 | 3/8 X 1 1/2 | ESPL50EMR2 |

EVAPORATOR FAN MOTORS

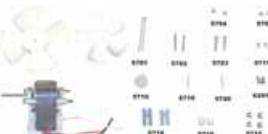
REVERSIBLE FAN MOTOR



For a motor, complete with adapters and hardware, purchase NRP5700K kit. Fits standard units and Bohn, Uppco, Singer & GE33. Also replaces ACME700 & Gemline's EM670 motors.

| Part No. | Description |
|----------|--|
| NRP5700 | Reversible Fan Motor, 1/100 H.P., 120V, 3000 RPM |

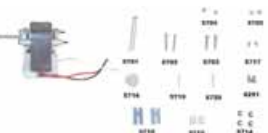
REVERSIBLE FAN MOTOR KIT



Fits standard units and Bohn, Uppco, Singer & GE33. Also replaces ACME700 & Gemline's EM670 motor kits. For the motor only, purchase NRP5700.

| Part No. | Description |
|----------|--|
| NRP5700K | Reversible Fan Motor Kit, 1/100 H.P., 120V, 3000 RPM |

REVERSIBLE FAN MOTOR KIT



Shaft adapts from 3/16" to 1/4", 5/16" or hubless. Fits standard units and Bohn, Uppco, Singer, Hill & GE33. Also replaces ACME750 motor kit.

| Part No. | Description |
|----------|---|
| NRP5750 | Reversible Fan Motor Kit, 1/50 H.P., 120V, 3000 RPM |

DUAL VOLTAGE REVERSIBLE MOTOR KIT



Shaft adapts from 3/16" to 1/4", 5/16" or hubless. Fits standard units and Bohn, Uppco, Singer, Hill & GE33. Also replaces ACME7502 motor kit.

| Part No. | Description |
|----------|---|
| NRP57502 | Dual Voltage Reversible Motor Kit, 1/45 H.P., 120/240V, 1.3/0.52A |

NATIONAL REFRIGERATION PRODUCTS

AIR-ACETYLENE EQUIPMENT

FEATHER FLAME ACETYLENE KITS



Economically priced air fuel kit which has a tip design that produces excellent flame characteristics for soldering and light brazing.

Contains NHA12 hose, NEA1G regulator, NAA1 handle and NBA4 tip.

| Part No. | Tip No. | Regulator Fitting |
|----------|---------|-------------------|
| NKA37H | NBA4 | "B" Cylinder |

TARGET® TORCH ACETYLENE KITS



Kits feature the very hot compact adjustable Target Tips for professional soldering and brazing applications. Kits also include a quick disconnect handle, UL listed regulator, hose and accessories.

| Part No. | Tip No. | Regulator Fitting |
|----------|-------------|-------------------|
| NKX4B | NGA5, NGA14 | "B" Fitting |
| NKX5B | NGA5 | "B" Fitting |
| NKX6MC | NGA3, NGA8 | "MC" Fitting |

TARGET® TIPS



NGA3

- Very hot turbine flame
- Tips have a filter and removal orifice
- Tips fit NGG-4 handle
- Interchangeable with other quick disconnect style tips
- Unique mixer design cuts brazing time by 30% over conventional tips
- Adjustable tips that do not burn up
- Made of heavy stainless steel and brass

| Part No. | Flame Diameter | Soft Solder | Silver Solder |
|----------|----------------|-----------------|---------------|
| NGA3 | 1/4" | 1/4" - 1" | 1/8" - 1/2" |
| NGA5 | 5/16" | 3/4" - 1-1/2" | 1/4" - 3/4" |
| NGA8 | 3/8" | 1" - 2-1/2" | 1/2" - 1" |
| NGA11 | 7/16" | 1-1/2" - 3-1/4" | 3/4" - 1-1/2" |
| NGA14 | 1/2" | 2" - 4" | 1" - 2" |
| NGA32 | 3/4" | 3" - 6" | 1-1/2" - 4" |

ACET-O-LOTE TIPS (THREADED, SCREW-IN)



NBA3

- Quiet, adjustable flame
- Fits NAA1 handle
- Economically priced
- Replaces Prestolite®, Uniweld®

| Part No. | Flame Diameter | Soft Solder |
|----------|----------------|--------------|
| NBA1 | 1/16" | 1/16" - 1/8" |
| NBA2 | 1/8" | 1/8" - 1/4" |
| NBA3 | 3/16" | 1/4" - 1/2" |
| NBA4 | 1/4" | 1/2" - 1" |
| NBA5 | 5/16" | 1" - 1-1/2" |
| NBA6 | 7/16" | 2" - 4" |

EZE-LITE TIPS



NGA3L

- Innovative spark igniting turbine flame tip ignites with the push of a button
- Interchangeable with other quick disconnect style tips
- Removable / cleanable orifice
- Tips fit NGG-4 handle

| Part No. | Flame Diameter | Soft Solder | Silver Solder |
|----------|----------------|-------------|---------------|
| NGA3L | 1/4" | 1/4" - 1" | 1/8" - 1/2" |
| NGA8L | 3/8" | 1" - 2-1/2" | 1/2" - 1-1/2" |
| NGA14L | 1/2" | 2" - 4" | 1" - 2" |

NATIONAL REFRIGERATION PRODUCTS

AIR-ACETYLENE EQUIPMENT

SNAP-IN STYLE HANDLE



- This handle has a quick disconnect to rapidly change tips
- Comfortable grooved handle is made of very durable materials
- Uses 3/8-24 LH "A" hose fittings
- The Target® Torch handle will work with all "NGA" style tips

Part No.

NGG4

Description

Target® Torch Snap-In Style Handle

SCREW-IN STYLE HANDLE



- This handle has the adjustment valve in front for single hand operation
- Needle valve design enables very fine flame adjustments
- This torch will keep your tips burning efficiently in drafts, winds and adverse conditions
- Made with quality brass and durable materials
- Uses standard 3/8-24 LH "A" size hose fittings
- Acet-O-Lite® torch will work with all "NBA" style tips

Part No.

NAA1

Description

Acet-O-Lite® Screw-In Style Handle

ACETYLENE REGULATORS



NEA1G

- UL Listed regulators, manufactured of solid brass, are made for rugged use.
- Specially designed conical seat and neopropene diaphragm
- The inlets have filters to prevent dirt from entering the regulator
- "A" hose fitting 3/8-24 LH

Part No.

NEA1G

NEA2G

Description

B Cylinder Connection

MC Cylinder Connection

ACETYLENE HOSE



NHA36

- Hose assemblies are made of quality 7/16" OD x 3/16" ID single ply fabric reinforced grade R hose
- Has 200 PSI working pressure

Part No.

NHA36

NHA312

NHA325

Description

Hose 6' Long with "A" 3/8-24 Connections

Hose 12' Long with "A" 3/8-24 Connections

Hose 25' Long with "A" 3/8-24 Connections

SNAP ADAPTOR



Adapts the NRP wide variety of threaded pencils, brushes or Target® Tips to torch handles with snap-in design.

Part No.

NBR5665

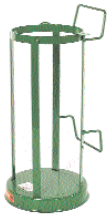
Description

Quicky-Adapter

NATIONAL REFRIGERATION PRODUCTS

AIR-ACETYLENE EQUIPMENT

ACETYLENE STANDS



NC800

- Heavy duty steel stand with hose rack, support base and handle
- Ideal stand for air-acetylene kits

| Part No. | Description |
|----------|---------------------------------|
| NC800 | For MC Size Acetylene Cylinders |
| NC850 | For B Size Acetylene Cylinders |

CYLINDER ADAPTER MC TO B



| Part No. | Description |
|----------|---------------------------|
| NBRS364 | MC Cyl. to B Reg. Adapter |

CYLINDER ADAPTER B TO MC



| Part No. | Description |
|----------|---------------------------|
| NBRS365 | B Cyl. to MC Reg. Adapter |

OXY-FUEL EQUIPMENT

"125" WELDING / BRAZING KITS



- Handle has rear valves and is UL Listed
- Includes welding handle regulators, 12' hose and 2 brazing tips for numerous applications
- Kits are prematched to different tank sizes and portable carts and carrying stands are available.

| Part No. | Description |
|----------|-----------------|
| NKA125M | Kit for MC Tank |
| NKA125B | Kit for B Tank |

STUBBY STYLE WELDING / BRAZING KITS



- Stubby style tips have a short heavy duty design which maximizes movement in close areas
- Includes a UL torch, regulators, 12' hose and 2 stubby tips for tight areas
- Torch is compact and durable
- Various other tips are available

| Part No. | Description |
|------------|--|
| NKA700M | Stubby Style Kit for MC Tank |
| NKA700M12P | Stubby Style Kit for MC Tank with Plastic Cart |

NATIONAL REFRIGERATION PRODUCTS

OXY-FUEL EQUIPMENT

WELDING & BRAZING TORCH



| Part No. | Description |
|----------|--|
| NTW141TA | Welding Torch with "A" Hose Fittings and Rear Valve Design |

STUBBY STYLE WELDING & BRAZING TORCH



- Front needle valves give precise flame control
- "A" hose fittings
- Use with Stubby-style 2033 or Standard-style 3033 tips
- Compact durable construction

| Part No. | Description |
|----------|---|
| NTC15WA | Compact Brazing Torch with "A" Hose Fitting |

REPLACEMENT WELDING / BRAZING / HEATING TIPS (Standard Size)



N30333

| Part No. | Description | Brazing Capacity |
|----------|----------------------------|------------------|
| N30331 | Replacement Welding Tip #1 | 1/4 to 1" |
| N30333 | Replacement Welding Tip #3 | 1/2 to 1-3/8" |
| N3033H15 | Heating Tip (Small) | Up to 1-1/2" |
| N3033H30 | Heating Tip (Medium) | Up to 3" |

- Fits all NRP oxy-fuel handles



N3033H30

| Part No. | Description | Brazing Capacity |
|----------|-----------------------|------------------|
| N32001 | W-200 Welding Tip #1 | 1/4 to 1" |
| N32002 | W-200 Welding Tip #2 | 1/2 to 1-3/8" |
| N325015 | W-200 Heating Tip #15 | Up to 1-1/2" |
| N325030 | W-200 Heating Tip #30 | Up to 3" |

- Fits Prestolite® oxy-fuel handles

STUBBY STYLE WELDING & BRAZING TIPS



N2033

- Fits all NRP oxy-fuel handles
- Rugged and designed for commercial applications
- Short heavy duty design
- Gives up close control and maximizes movement in tight areas
- Made of brass and copper



N2033H15

| Part No. | Description | Brazing Capacity |
|----------|-----------------------|------------------|
| N20330 | Welding & Brazing Tip | 3/16 to 3/4" |
| N20331 | Welding & Brazing Tip | 1/4 to 1" |
| N20333 | Welding & Brazing Tip | 1/2 to 1-3/8" |



N2066T

| | | |
|----------|-------------|--------------|
| N2033H15 | Heating Tip | Up to 1-1/2" |
| N2066T00 | Twin Tip | Up to 1-1/2" |
| N2066T0 | Twin Tip | Up to 1" |
| N2066T1 | Twin Tip | Up to 2" |



N2077G

| | | |
|----------|---------------|--------------|
| N2077G00 | G Brazing Tip | Up to 1/2" |
| N2077G0 | G Brazing Tip | Up to 1" |
| N2077G1 | G Brazing Tip | Up to 1-1/2" |
| N2077G2 | G Brazing Tip | Up to 2" |
| N2077G3 | G Brazing Tip | Up to 3" |



N2011F

| | | |
|----------|--------------|--------------|
| N2011F6 | Flex Tip 6" | Up to 1-1/2" |
| N2011F10 | Flex Tip 10" | Up to 1-1/2" |

NATIONAL REFRIGERATION PRODUCTS

OXY-FUEL EQUIPMENT

REPLACEMENT CUTTING TIPS



N23201

Part No.

N23200
N23201
N23202

Description

Replacement Cutting Tip, Small #0
Replacement Cutting Tip, Medium #1
Replacement Cutting Tip, Large #2

CUTTING ATTACHMENT



Part No.

NTC23CAT

Description

Cutting Attachment with 2320 #1 Tip (N23201)

OXY-FUEL REGULATORS



NEO25A

These UL listed regulators are manufactured from durable brass with a neopropene rubber diaphragm, inlet filters and conical seat design. NRP regulators give the constant and accurate gas flow that is needed by professionals.

Part No.

NEA25MA
NEA25BA
NEO25A

Description

Dual Gauge Acetylene Regulator for MCTank
Dual Gauge Acetylene Regulator for B Tank
Dual Gauge Oxygen Regulator

DUAL OXY-ACETYLENE HOSES



NSW12A

Part No.

NSW12A
NSW25A

Description

Dual Oxy-Acetylene Hose Kit, 12' x "A" Fittings
Dual Oxy-Acetylene Hose Kit, 25' x "A" Fittings

PROPANE / MAPP SWIVEL TORCHES



- Hot turbine flame
- Used with either propane or MAPP® gas
- 360 degree tip rotates to any position

- Heavy duty brass regulator
- Stainless steel tip ends
- Instant ignitor available with NGP360L

Part No.

NGP360R
NGP360L

Description

Swivel Torch for Disposable Cylinders
Swivel Torch for Instant Ignitor

LEAK DETECTOR



Leak detector for use with disposable propane or MAPP® gas cylinders. The flame, when adjusted to heat the reactor plate, quickly changes color as the search hose passes a refrigerant leak.

Features

- 24" search hose
- Blackened shell to easily observe flame color
- Replacement parts available

Part No.

NGP18R

Description

Leak Detector

NATIONAL REFRIGERATION PRODUCTS

OXY-FUEL EQUIPMENT

OXY-FUEL CYLINDER STAND & CART

NC1200P



NC1300


Part No.
NC1200P
NC1300
Description

Plastic Stand for 20 cu. ft. Oxygen and 10 cu. ft. MC Acet.

Steel Cart for 40 cu. ft. Oxygen and 40 cu. ft. B Acetylene

NITROGEN REGULATOR



- Heavy duty regulator delivers pressure and volume most requested by professionals
- Forged brass body

Part No.
NEN450F
Description

1/4" Flare Male Outlet Fitting

REPLACEMENT GAUGES



- Quality gauges for the NRP air acetylene, oxygen and fuel regulators

Part No.
NMA8016F
NMA8016
NSTE331
NSTE332
NSTE357
NSTE334
Description

Flat Gauge for NEA1G

1-1/2" 0 - full

Upright Gauge

1-1/2" 0 - full

For NEA25 Series

2" 0 - 30#

For NEA25 Series

2" 0 - 400#

For NEO25 Series

2" 0 - 100#

For NEO25 Series

2" 0 - 4000#

SINGLE FLINT LIGHTER



N3011

Part No.
N3011
N3011X
Description

Single Flint Lighter (Flint Included)

Renewal Flints (5 Each)

CYLINDER WRENCH


Part No.
NMA2
Description

Cylinder Wrench

ADAPTER (TORCH / REGULATOR TO HOSE)



NBRS341

Part No.
NBRS341
NBRS342
Description

"A" LHF to "B" LHM


"A" RHF to "B" RHM

REACTOR PLATE



Part No.
NDA8A
Description

Reactor for NGP18R


SAWS

|  | Part No. | Description | Quantity |
|---|--------------------------|---------------------------------------|----------|
| | NRE30014 | 14" Wood/PVC Handsaw | 1 |
| | NRE80175 | Pistol Grip Mini Hacksaw | 1 |
| | NRE80314 | 5-Pack Metal Cutting Mini Hack Blades | 1 |


WRENCHES / PLIERS

|  | Part No. | Description | Quantity |
|---|--------------------------|------------------------------|----------|
| | NRE82240 | 10" Slip Joint Pliers | 1 |
| | NRE82250 | 12" Slip Joint Pliers | 1 |
| | NRE57771 | 10" Adjustable Pipe / Wrench | 1 |

SCREWDRIVERS

|  | Part No. | Description | Quantity |
|---|--------------------------|---|----------|
| | NRE10653 | Slotted Screwdriver 7-3/4" x 3" x 9/64" | 1 |
| | NRE80105 | Slotted Insulated Screwdriver 7" x 3" x 9/64" | 1 |
| | NRE10721 | Slotted Screwdriver 9-3/4" x 5" x 1/4" | 1 |
| | NRE47758 | Slotted Screwdriver 9-3/4" x 5" x 9/64" | 1 |
| | NRE48250 | Slotted Insulated Screwdriver 9-3/4" x 5" x 9/64" | 1 |
| | NRE10776 | Phillips #1 7-3/4" x 3" x 3/16" | 1 |
| | NRE33133 | Phillips #1 Insulated 7-3/4" x 3" x 3/16" | 1 |
| | NRE10783 | Phillips #2 8-3/4" x 4" x 9/64" | 1 |
| | NRE33140 | Phillips #2 Insulated 8-3/4" x 4" x 9/64" | 1 |

HAMMERS/FILES

|  | Part No. | Description | Quantity |
|---|--------------------------|--------------------------------|----------|
| | NRE42916 | 16 oz. Claw Hammer Steel Shank | 1 |
| | NRE22341 | 8" Mill Bastard File | 1 |

NATIONAL REFRIGERATION PRODUCTS

SLOTTED SCREWDRIVERS Cushion Grip Handle



| Part No. | Description | Quantity |
|----------|---------------------------|----------|
| N9001 | 3/16" x 3" Round Shank | 1 |
| N9002 | 3/16" x 6" Round Shank | 1 |
| N9003 | 1/4" x 1-1/4" Round Shank | 1 |
| N9004 | 1/4" x 4" Round Shank | 1 |
| N9005 | 1/4" x 6" Round Shank | 1 |
| N9006 | 5/16" x 6" Round Shank | 1 |
| N9007 | 3/8" x 8" Round Shank | 1 |
| N9009 | 1/4" x 4" Square Shank | 1 |
| N9010 | 5/16" x 6" Square Shank | 1 |
| N9011 | 3/8" x 8" Square Shank | 1 |

PHILLIPS SCREWDRIVERS Cushion Grip Handle



| Part No. | Description | Quantity |
|----------|------------------|----------|
| N9013 | 4" - #1 Head | 1 |
| N9014 | 1-1/4" - #2 Head | 1 |
| N9015 | 4" - #2 Head | 1 |
| N9016 | 6" - #3 Head | 1 |

POCKET SCREWDRIVER



| Part No. | Description | Quantity |
|----------|-------------------|----------|
| N9024 | Slotted 1/8" x 2" | 1 |

SIXPAC & STUBBY by Picquik



SUPER8



STUBBY

| Part No. | Description | Quantity |
|------------------|--|----------|
| SUPER8 | Super8 - (6") 8 in 1 Screwdriver w/6 (3-1/2") Powerbits | 1 |
| STUBBY | Stubby - (3-1/2") 6 in 1 Screwdriver w/6 (1.3") Insert Bits | 1 |
| EXTENSION | Extension - 5" Bit Extension | 1 |
| N95001 | SAE Allen Key Multipack with 7/64", 1/8", 9/64", 5/32", 3/16", 7/32" | 1 |
| N95003 | Torx Multipack with T-15, T-20, T-25, T-27, T-30, T-40 | 1 |
| N95004 | Torx Security Multipack with T-8, T-10, T-20, T-25, T-27 | 1 |
| N95006 | Phillips Multipack with 0, 1, 2, 3 | 1 |
| N95008 | SAE Slotted Multipack with 5/32", 3/16", 1/4", 9/32" | 1 |

NATIONAL REFRIGERATION PRODUCTS

PLIERS



N9045



N9053



N9057

N9086
N9087

| Part No. | Description | Quantity |
|----------|---|----------|
| N9045 | 6" Diagonal Cutter | 1 |
| N9046 | 7" Diagonal Cutter | 1 |
| N9048 | 8" Lineman | 1 |
| N9049 | 6" Long Nose w/Cutter | 1 |
| N9050 | 6" Needle Nose | 1 |
| N9053 | 6" Slip Joint | 1 |
| N9054 | 6-1/2" Tongue and Groove with 5 adjustments | 1 |
| N9055 | 9-1/2" Tongue and Groove with 5 adjustments | 1 |
| N9056 | 12" Tongue and Groove with 7 adjustments | 1 |
| N9057 | 8" Angle Nose | 1 |
| N9058 | 10" Tongue and Groove with 7 adjustments | 1 |
| N9086 | 9-1/2" Griplock® Tongue and Groove Plier | 1 |
| N9087 | 12" Griplock® Tongue and Groove Plier | 1 |

FILES & FILE HANDLES



N9074



N9075



N9076



N9077

| Part No. | Description | Quantity |
|----------|------------------------|----------|
| N9074R | 12" Flat Bastard | 1 |
| N9075R | 12" Half Round Bastard | 1 |
| N9076R | 12" Round Bastard | 1 |
| N9077 | File Handle | 1 |

COMBINATION WRENCHES



| Part No. | Description | Quantity |
|----------|--|----------|
| N9073 | 9 Piece Set 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4" | 1 |

ADJUSTABLE WRENCHES Phosphate with Ergo Plastic Grip



| Part No. | Description | Quantity |
|----------|-----------------------------|----------|
| D74PH | 4" with Vinyl Cushion Grip | 1 |
| D76PH | 6" with Vinyl Cushion Grip | 1 |
| D78PH | 8" with Vinyl Cushion Grip | 1 |
| D710PH | 10" with Vinyl Cushion Grip | 1 |
| D712PH | 12" with Vinyl Cushion Grip | 1 |

NATIONAL REFRIGERATION PRODUCTS

FLARE NUT WRENCH



| Part No. | Description | Quantity |
|----------|---|----------|
| N9051 | Flare Nut Wrench for 1/4" & 3/8" Fittings | 1 |
| N9052 | Flare Nut Wrench for 1/2" & 5/8" Fittings | 1 |

BALL JOINT SEPARATOR



| Part No. | Description | Quantity |
|----------|---------------------------|----------|
| N9063 | Ball Joint Separator, 12" | 1 |

QUIKREAD POWER TAPES BY LUFKIN



N9060

Rugged & durable. Exclusive No-Drift locking action for accurate readings. Easy to read vertical numbering. Decimal equivalents for fast calculations.

| Part No. | Description | Quantity |
|----------|---------------------|----------|
| N9060 | 16' Tape, 3/4" wide | 1 |
| N9061 | 25' Tape, 1" wide | 1 |

LEVEL



| Part No. | Description | Quantity |
|----------|----------------------------|----------|
| N9064 | Torpedo Level, 9" Aluminum | 1 |

NUT DRIVERS



N9082M



N9021

| Part No. | Description | Quantity |
|----------|--|----------|
| N9018 | 1/4" | 1 |
| N9019 | 5/16" | 1 |
| N9021 | 3/8" | 1 |
| N9082M | 1/4", Extra-long, Magnetic | 1 |
| N9083M | 5/16", Extra-long, Magnetic | 1 |
| N9071 | 7 Piece Set, 3/16", 1/4", 5/16", 11/32", 3/8", 7/16", 1/2" | 1 |

AVIATION SNIPS




N9044


| Part No. | Description | Quantity |
|----------|-------------------------------|----------|
| N9042 | Right Cut | 1 |
| N9043 | Left Cut | 1 |
| N9044 | Straight Cut | 1 |
| NP6510-L | Offset Left and Straight Cut | 1 |
| NP6510-R | Offset Right and Straight Cut | 1 |
| NP6716-B | Bulldog Aviation Snip | 1 |

NATIONAL REFRIGERATION PRODUCTS


RATCHET WRENCHES

|  | Part No. | Description | Quantity |
|---|----------|---|----------|
| | N0999 | 4-Way, 1/4" x 3/16" x 5/16" x 3/8", 5 1/2" Offset Style - 25 Degrees | 1 |
| | N1000 | 4-Way, 3/16" x 1/4" x 5/16" x 3/8" | 1 |
| | N1001 | 2-Way, 1/2" x 3/8" | 1 |


VICE GRIPS

|  | Part No. | Description | Quantity |
|---|----------|---------------------------------|----------|
| | N007R | 7" Locking Plier, Straight Jaw | 1 |
| | N010R | 10" Locking Plier, Straight Jaw | 1 |

PINCH-OFF TOOL

|  | Part No. | Description | Quantity |
|--|----------|---------------------------|----------|
| | N00RR | 7" Locking Pinch-Off Tool | 1 |

SCREWDRIVER BIT SET

|  | Part No. | Description | Quantity |
|---|----------|--------------------------------|----------|
| | N0015 | 10 Piece Bit Set Contains: | 1 |
| | | Magnetic Bit Holder | |
| | | Square Bits #2, #3 | |
| | | Phillips Bits 1-#1, 2-#2, 1-#3 | |
| | | Slotted Bits 1 ea #6, #8, #10 | |

NATIONAL REFRIGERATION PRODUCTS

NUT SETTERS



N0013

| Part No. | Description | Quantity |
|----------|-----------------------------------|----------|
| N0012 | 3/8" Magnetic Chuck, 1-7/8" Long | 1 |
| N0013 | 1/4" Magnetic Chuck, 1-5/8" Long | 1 |
| N0014 | 5/16" Magnetic Chuck, 1-5/8" Long | 1 |

HEX KEY WRENCHES



N0051



N9008

| Part No. | Description | Quantity |
|----------|-----------------------------|----------|
| N0051R | 5 Pieces, 5" Long | 1 |
| N0081R | 8 Pieces, 3" Long | 1 |
| N0091R | 9 Pieces, 4" Long | 1 |
| N3400R | 11 Pieces, Short Arm Set | 1 |
| N3600R | 9 Pieces, 6" Long | 1 |
| N3800R | 7 Pieces, 12" Long | 1 |
| N9008R | 8 Pieces, T-Handle, 9" Long | 1 |

SCRAPERS & AWLS



N2425



N0485



N9041



N9065

| Part No. | Description | Quantity |
|----------|----------------------------|----------|
| N2425 | Chisel Scraper, 1-1/4" W | 1 |
| N2426 | Putty Scraper, 3" W | 1 |
| N0485 | Gasket Scraper | 1 |
| N9041 | Scratch Awl | 1 |
| N9065 | 5 Piece Punch & Chisel Set | 1 |

UTILITY KNIFE



DMKH6H



N66385

| Part No. | Description | Quantity |
|----------|--|----------|
| DMK6H | Utility Knife with Retractable Blade | 1 |
| RBDMK6H | Replacement Blades for DMK6H | 5 |
| N66372 | Heavy Duty 8 Point Breakaway Blades | 5 |
| N66375 | Heavy Duty Auto-Lock 8 Point Breakaway Knife | 1 |
| N66378 | 13 Point Breakaway Blades - 5 Pcs. | 1 |
| N66385 | Deluxe Auto-Lock 13 Point Breakaway Knife | 1 |

NATIONAL REFRIGERATION PRODUCTS

CAULKING GUN



| Part No. | Description | Quantity |
|----------|--------------|----------|
| N28CG | Caulking Gun | 1 |

GREASE GUNS



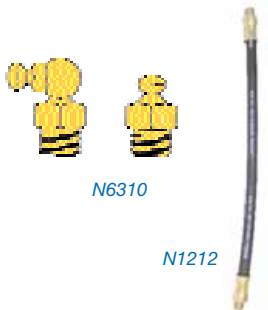
| Part No. | Description | Quantity |
|----------|-------------------------------|----------|
| N3100 | Grease Gun | 1 |
| N3132 | Mini Grease Gun Tube & Nozzle | 1 |
| N0531 | Grease Gun Coupler, 1/8" NPT | 1 |

GREASE CARTRIDGES



| Part No. | Description | Quantity |
|----------|------------------------|----------|
| N3124 | Grease Cartridge | 1 |
| N3127 | Mini Grease Cartridges | 2 |

GREASE FITTINGS



| Part No. | Description | Quantity |
|----------|---|----------|
| N6310 | 29 Piece Assortment: 1/8" Pipe Thread 8 pcs., 1/4 " 28 Straight 12 pcs., 1/8" Pipe Thread 90° Angle 4 pcs., 1/4" 90° Angle 5 pcs. | 1 |
| N6312 | 1/8" Pipe Thread Straight Fitting | 8 |
| N1212 | 12" Grease Hose | 1 |
| N1218 | 18" Grease Hose | 1 |

NATIONAL REFRIGERATION PRODUCTS

NRP labels and tags provide an easy and accurate means of identifying recovery cylinders and their contents. This enables the contractor and the reclaimer to quickly handle and manage refrigerant stocks for transportation, reprocessing and reuse. All labels have a self-adhesive backing.

LARGE RECOVERED REFRIGERANT LABELS



Measures 5" x 10-1/2" (5 per pack). Meets DOT requirements for transporting refrigerants. All recovered refrigerant labels are designated with color code and shipping classification.

| Part No. | Refrigerant |
|----------|-------------|
| NL11 | R11 |
| NL12 | R12 |
| NL22 | R22 |
| NL123 | R123 |
| NL134a | R134a |
| NL502 | R502 |

EQUIPMENT LABELS

Measures 2" x 4" (5 per pack).

| Part No. | Equipment Labels |
|----------|------------------|
| NRE23 | For R23 |
| NRE134a | For R134a |
| NRE401A | For R401A |
| NRE401B | For R401B |
| NRE402A | For R402A |
| NRE402B | For R402B |
| NRE404A | For R404A |
| NRE406A | For R406A |
| NRE407A | For R407A |
| NRE407B | For R407B |
| NRE407C | For R407C |
| NRE408A | For R408A |
| NRE409A | For R409A |
| NRE410A | For R410A |
| NRE507 | For R507 |

SMALL RECOVERED REFRIGERANT LABELS



Measures 3" x 4" (10 per pack).

| Part No. | Refrigerant |
|----------|-------------|
| NR11 | R11 |
| NR12 | R12 |
| NR22 | R22 |
| NR123 | R123 |
| NR134a | R134a |
| NR502 | R502 |

REFRIGERANT CYLINDER TAG



Part No. _____
NRT

Measures 4" x 9" (5 per pack). Wire tie for fastening to valve collar. For shipping R-12, R-22, R-114, R500 and R502.

CERTIFICATE OF REMOVAL LABEL



Part No. _____
NL1

Measures 3" x 4" (10 per pack). To identify that the refrigerant has been properly removed from a cooling unit, for disposal, in accordance with the 1990 Clean Air Act amendment requirements.

NATIONAL REFRIGERATION PRODUCTS

SPRAYERS



N4768

| Part No. | Description | Quantity |
|----------|-----------------------------|----------|
| N4768 | 1 Pint Hand Sprayer | 1 |
| N1985 | 1/2 Gallon Sprayer (Orange) | 1 |
| 1910V | Parts Kit For N1985 | 1 |
| 955690 | Nozzle Body For N1985 | 1 |
| N956090 | Poly Nozzle For N1985 | 1 |

BRUSHES



N2311



N2411



N2421

| Part No. | Description | Quantity |
|----------|------------------------------|----------|
| N2310 | Curved Handle Wire Brush | 1 |
| N2311 | Shoe Handle Wire Brush | 1 |
| N2411 | 2" Flat Varnish Brush | 1 |
| N2421 | Parts Cleaning Brush | 1 |
| N2422 | Tampico Parts Cleaning Brush | 1 |

SHOP TOWELS & RAGS



N3125

| Part No. | Description | Quantity |
|----------|------------------------|----------|
| N1200 | Cotton Rags, 5 Pieces | 1 |
| N3125 | Shop Towels, 10 Pieces | 1 |

SOLID BRAID ROPE Polyester. Hi-strength, Low-stretch



N120

| Part No. | Description | Quantity |
|----------|--------------------|----------|
| N120 | 1/2" Rope, 50 Feet | 1 |
| N380 | 3/8" Rope, 50 Feet | 1 |

TROUBLE LIGHTS & EXTENSION CORDS



N5200

| Part No. | Description | Quantity |
|----------|---------------------------------------|----------|
| N5200 | Trouble Lamp, 25 Ft Cord, 13A, 125V | 1 |
| N5201 | Trouble Lamp, 50 Ft Cord, 13A, 125V | 1 |
| N5229 | Extension Cord, 50 Ft, 15A, 125V | 1 |
| N5230 | Triple Tap Extension Cord (3 Outlets) | 1 |

INSPECTION MIRRORS




NUK20


| Part No. | Description | Quantity |
|----------|---------------------------|----------|
| NUC20 | Telescoping Round Mirror | 1 |
| NUC2H | Refill Head for NUC20 | 1 |
| NUK20 | Telescoping Square Mirror | 1 |
| NUK2H | Refill Head for NUK20 | 1 |

NATIONAL REFRIGERATION PRODUCTS




TOOL BOXES & TOTE TRAYS

|  | Part No. | Description | Quantity |
|---|------------------------|--|----------|
| | N26000 | Handy Tote | 1 |
| | N5444 | Compartment Box with Lid & Handle 13-3/8" x 2" x 9-1/4" | 1 |
| | P9081 | 20" Plastic Tool Box with Lift-Out Tray | 1 |


TOTES

|  | Part No. | Description | Quantity |
|---|------------------------|---|----------|
| | NBTOTE | Blue Tool Tote, Canvas, 6"x6"x12" Long | 1 |
| | NWTOTE | White Tool Tote, Canvas, 6"x6"x12" Long | 1 |


TOOL POUCHES & BELTS

|   | N9078 | | |
|--|-----------------------|--------------------------|----------|
| | Part No. | Description | Quantity |
| | N9078 | Leather Belt, 30" - 46" | 1 |
| | N9079 | Cotton Belt, 20" - 48" | 1 |
|  | N9080 | Electrician's Tool Pouch | 1 |


SAND CLOTH

|  | Part No. | Description | Quantity |
|---|-----------------------|--------------|----------|
| | 66510 | 10 Yard Roll | 1 |
| | 66525 | 25 Yard Roll | 1 |


COPPER CLEANING PADS

|  | Part No. | Description | Quantity |
|---|-----------------------|--|----------|
| | A1210 | Scotch Brite™ Cleaning Pads, 4.5" x 6" | 1 |

CLEAR PVC TUBING FDA Approved

|  | Part No. | Description | Quantity |
|---|----------------------|-------------|----------|
| | 14VT | 1/4" | 100 Ft |
| | 38VT | 3/8" | 100 Ft |
| | 12VT | 1/2" | 100 Ft |
| | 58VT | 5/8" | 100 Ft |
| | 34VT | 3/4" | 100 Ft |
| | 78VT | 7/8" | 50 Ft |
| | 1VT | 1" | 25 Ft |

CONDUIT

|  | Part No. | Description | Quantity |
|---|----------------------------|--|----------|
| | 12SEALTITE | 1/2" Non-Metallic Liquid Tight Conduit | 100 Ft |
| | 34SEALTITE | 3/4" Non-Metallic Liquid Tight Conduit | 100 Ft |

NATIONAL REFRIGERATION PRODUCTS

RINGS Insulated



| Part No. | Wire Size | Stud Size | Quantity |
|----------|-----------|-----------|----------|
| N6236L | 22 - 18 | 8 | 50 |
| N6272L | 16 - 14 | 6 | 50 |
| N6216L | 16 - 14 | 10 | 50 |
| N6252L | 12 - 10 | 10 | 50 |
| N6253L | 12 - 10 | 1/4 | 50 |
| N6257N | 8 | 1/4 | 25 |

BUTT CONNECTORS Insulated



| Part No. | Wire Size | Quantity |
|----------|-----------|----------|
| N6232L | 22 - 18 | 50 |
| N6217 | 16 - 14 | 24 |
| N6217L | 16 - 14 | 50 |
| N6231 | 12 - 10 | 19 |

BULLET PLUGS AND RECEPTACLES Insulated



| Part No. | Wire Size | Size | Quantity |
|----------|-----------|------------|----------|
| N6285L | 16 - 14 | Plug .157 | 50 |
| N6286L | 16 - 14 | Receptacle | 50 |

SLIP-ONS Female, Insulated



| Part No. | Wire Size | Tab Size | Insulated | Quantity |
|----------|-----------|----------|-----------|----------|
| N6235L | 22 - 18 | .250 | yes | 50 |
| N6214C | 16 - 14 | .250 | no | 100 |
| N6218 | 16 - 14 | .250 | yes | 24 |
| N6218L | 16 - 14 | .250 | yes | 50 |
| N6251 | 12 - 10 | .250 | yes | 19 |
| N6251L | 12 - 10 | .250 | yes | 50 |
| N6282L | 22 - 18 | .187 | yes | 50 |
| N6281L | 16 - 14 | .187 | yes | 50 |

TERMINAL BLOCKS



| Part No. | Description | Quantity |
|----------|---|----------|
| N6183 | 6 Position, 20 Amp, 250V, Maximum Wire Size 14 AWG | 1 |
| N6185 | 10 Position, 20 Amp, 250V, Maximum Wire Size 14 AWG | 1 |
| N6187 | 14 Position, 20 Amp, 250V, Maximum Wire Size 14 AWG | 1 |
| N6193 | 6 Position, 30 Amp, 600V, Maximum Wire Size 12 AWG | 1 |
| N6195 | 10 Position, 30 Amp, 600V, Maximum Wire Size 12 AWG | 1 |

NATIONAL REFRIGERATION PRODUCTS

SLIP-ONS Male, Insulated



| Part No. | Wire Size | Tab Size | Quantity |
|----------|-----------|----------|----------|
| N6219 | 16 - 14 | .250 | 24 |

SLIP-ONS Fully Insulated



N6229L*



N6233L

| Part No. | Wire Size | Tab Size | Type | Quantity |
|----------|-----------|----------|------|----------|
| N6229L* | 16 - 14 | .250 | F | 50 |
| N6233L | 16 - 14 | .250 | F | 50 |
| N6234L | 16 - 14 | .250 | M | 50 |

*With insulated grip

FLAG FEMALE SLIP-ONS



N6213C



N6224C



N6277N

| Part No. | Wire Size | Size | Insulated | Quantity |
|----------|-----------|------|-----------|----------|
| N6213C | 16 - 14 | .250 | No | 100 |
| N6277N | 16 - 14 | .250 | Yes | 25 |
| N6224C | 12 - 10 | .250 | No | 100 |

FLAG FEMALE SLIP-ON FOR COMPRESSORS



N6271



N6258C



N6270L

| Part No. | Wire Size | Size | Quantity |
|----------|-----------|----------|----------|
| N6271 | 18 - 16 | .090 Pin | 17 |
| N6258C | 16 - 14 | .250 | 100 |
| N6270L | 12 - 8 | .250 | 50 |

SPADES Insulated



N6255L



N6227L

| Part No. | Wire Size | Stud Size | Quantity |
|----------|-----------|-----------|----------|
| N6237L | 22 - 18 | 8 | 50 |
| N6274L | 16 - 14 | 6 | 50 |
| N6227L | 16 - 14 | 8 | 50 |
| N6228L | 16 - 14 | 10 | 50 |
| N6255L | 12 - 10 | 10 | 50 |

SPRING SPADES Insulated



N6238L

| Part No. | Wire Size | Stud Size | Quantity |
|----------|-----------|-----------|----------|
| N6238L | 22 - 18 | 8 | 50 |
| N6239L | 16 - 14 | 8 | 50 |
| N6276L | 16 - 14 | 6 | 50 |

NATIONAL REFRIGERATION PRODUCTS

TAB ADAPTERS



N6210



N6212



N6211C

| Part No. | Description | Stud Size | Quantity |
|----------|-------------------|-----------|----------|
| N6210 | 1 Male / 1 Female | .250 | 24 |
| N6211C | 2 Male / 1 Female | .250 | 100 |
| N6212 | 2 Male / 1 Female | .250 | 24 |

TAP CONNECTORS



| Part No. | Wire Size | Quantity |
|----------|-----------|----------|
| N6241 | 18 - 14 | 9 |

DEAD END CONNECTORS Insulated



N6223L

| Part No. | Wire Size | Quantity |
|----------|-----------|----------|
| N6222L | 22 - 14 | 50 |
| N6223L | 18 - 10 | 50 |
| N6250N | 18 - 8 | 25 |

TERMINAL KITS In plastic box



| Kit Part No. | 6211 | 6213 | 6216 | 6217 | 6218 | 6224 | 6231 | 6251 | 6252 | 6255 | 6227 |
|--|------|------|------|------|------|------|------|------|------|------|------|
| N6200A Qty Included in Kit 16 - 14 wire range, stud sizes 8 and 10 | 15 | 20 | 10 | 10 | 15 | - | - | - | - | - | 10 |
| N6200D Qty Included in Kit 12 - 10 wire range, stud size 10 | 10 | - | - | - | - | 10 | 10 | 10 | 10 | 15 | - |

TERMINAL REPAIR KIT



Kit Includes

- Set of three color coded wires with brass cylinder & stainless steel set screws
- Application wrench

| Part No. | Description | Quantity |
|----------|---|----------|
| TLC310 | 10 Gauge Compressor Stake On Repair Kit | 1 |
| TLC312 | 12 Gauge Compressor Stake On Repair Kit | 1 |

NATIONAL REFRIGERATION PRODUCTS

NYLON CABLE TIES



| Part No. | Color | Length | Maximum Diameter | Tensile Strength | Quantity |
|----------|-------|--------|------------------|------------------|----------|
| N6261L | W | 5" | 1-1/16" | 30 Lbs. | 50 |
| N6262BC | B | 7" | 1-3/4" | 50 Lbs. | 100 |
| N6262BM | B | 7" | 1-3/4" | 50 Lbs. | 1000 |
| N6262L | W | 7" | 1-3/4" | 50 Lbs. | 50 |
| N6262M | W | 7" | 1-3/4" | 50 Lbs. | 1000 |
| N6263BC | B | 11" | 3" | 50 Lbs. | 100 |
| N6263BD | B | 11" | 3" | 50 Lbs. | 500 |
| N6263D | W | 11" | 3" | 50 Lbs. | 500 |
| N6263L | W | 11" | 3" | 50 Lbs. | 50 |
| N6264N* | W | 7" | 1-3/4" | 50 Lbs. | 25 |
| N6265BC | B | 14" | 3-1/2" | 50 Lbs. | 100 |

*Has mounting hole

CABLE TIES



| Part No. | Description | Quantity |
|----------|---|----------|
| L30175 | Cable Tie, 175 Lbs. Tensile, 34" Long | 50 |
| L48175 | Cable Tie, 175 Lbs. Tensile, 48" Long | 50 |
| L24175 | Cable Tie, 175 Lbs. Tensile, 24" Long, UV Black | 50 |

CABLE TIE MOUNTS



| Part No. | Description | Quantity |
|----------|-----------------------|----------|
| N6269L | 1.1" Adhesive Backing | 50 |


NYLON CABLE CLAMPS




| Part No. | Pipe OD | Width | Thickness | Quantity |
|----------|---------|-------|-----------|----------|
| N5381 | 1/8" | 3/8" | .05" | 54 |
| N5382 | 1/4" | 3/8" | .05" | 45 |
| N5383 | 3/8" | 3/8" | .05" | 41 |
| N5384 | 1/2" | 3/8" | .05" | 39 |
| N5385 | 5/8" | 1/2" | .06" | 37 |

NATIONAL REFRIGERATION PRODUCTS


HOOK-UP WIRE UL Listed, Stranded

|  | Part No. | Length | No. Strands | Gauge | Capacity | Color |
|---|----------|--------|-------------|-------|----------|-------|
| | N632B | 48' | 26 | 16 | 600V | Black |
| | N632R | 48' | 26 | 16 | 600V | Red |
| | N632W | 48' | 26 | 16 | 600V | White |
| | N633B | 48' | 19 | 14 | 600V | Black |
| | N633R | 48' | 19 | 14 | 600V | Red |
| | N633W | 48' | 19 | 14 | 600V | White |
| | N634B | 48' | 19 | 12 | 600V | Black |
| | N634R | 48' | 19 | 12 | 600V | Red |
| | N634W | 48' | 19 | 12 | 600V | White |
| | N635B | 48' | 19 | 10 | 600V | Black |
| | N635R | 48' | 19 | 10 | 600V | Red |
| | N635W | 48' | 19 | 10 | 600V | White |
| | N631B | 48' | 19 | 8 | 600V | Black |
| | N631R | 48' | 19 | 8 | 600V | Red |


THERMOSTAT WIRE

|  | Part No. | Length | Wire size | Color |
|--|----------|--------|-----------|-------|
| | N6336 | 40' | 18/3 | Brown |
| | N6337 | 40' | 18/5 | Brown |
| | | | | |

SJT SERVICE CORD UL Listed

|  | Part No. | Length | Wire size | Capacity |
|---|----------|--------|-----------|----------|
| | N6341 | 20' | 16/3 | 300V |
| | N6343 | 20' | 14/3 | 300V |
| | | | | |

ROMEX WIRE 2 Conductor & Ground

|  | Part No. | Length | Wire size |
|---|----------|--------|-----------|
| | N6345 | 20' | 14/2 |
| | N6346 | 50' | 14/2 |
| | N6348 | 50' | 12/2 |

NATIONAL REFRIGERATION PRODUCTS

WIRE NUTS



Color-coded connector shells are made from high dielectric, smooth polypropylene plastic to eliminate porosity and surface cracking. Resists practically all chemical action – unaffected by gasolines, oils, diluted acids and alkaline solutions. Heat resistant up to 105°C (221°F).

| Part No. | Description | Quantity |
|---------------|----------------------------|----------|
| N6291C | 22 -16 Gray, Non-Winged | 100 |
| N6292C | 22 - 14 Blue, Non-Winged | 100 |
| N6293C | 18 -14 Orange, Non-Winged | 100 |
| N6294C | 18 - 10 Yellow, Non-Winged | 100 |
| N6295 | Assorted | 55 |
| N6296C | 18 - 8 Red, Winged | 100 |

HEAT SHRINK TUBING



| Part No. | Length | Quantity |
|--------------|-----------------------------|----------|
| N6370 | Assorted 6" Lengths. | 12 |
| | Includes: 1/8" Black 2 Pcs. | |
| | 1/8" White 2 Pcs. | |
| | 1/4" Black 2 Pcs. | |
| | 1/4" White 2 Pcs. | |
| | 1/2" Black 2 Pcs. | |
| | 1/2" White 2 Pcs. | |

CABLE STAPLES



| Part No. | Description | Quantity |
|--------------|-----------------------------------|----------|
| N0274 | 1/2" x 1" Cable Staples, 350 Pcs. | 1 |

CABLE MARKERS



Made of vinyl impregnated cloth and mounted on dispenser cards in a portable book. All markers are designed for both above and below ground applications.

| Part No. | Description | Quantity |
|--------------|---------------------|----------|
| N1002 | "A-Z" and "0-15" | 1 |
| N1003 | "#1 - #45" | 1 |
| N1009 | "1-2-3" and "A-B-C" | 1 |

NATIONAL REFRIGERATION PRODUCTS

TEST LEADS & CLIPS



N5042

| Part No. | Description | Quantity |
|----------|--|----------|
| N5031 | 8 Pieces, Color Coded | 8 |
| N5032 | 18" Jumper Wire | 2 |
| N5035 | 2" Alligator Clips | 4 |
| N5036 | 20 Amp Test Clip, 2-7/16" L, 5/8" Spread | 2 |
| N5042 | E-Z Hook, Large 18 Ga. | 2 |
| N6025 | Compressor Lead Kit | 3 |



N5031



N5032



N5035



N5036

ELECTRICAL PLUGS & ADAPTERS



N0179

| Part No. | Description | Quantity |
|----------|---|----------|
| N0179 | Plastic Handle Plug With Flexible Spring Prongs, 2 Pole, 2 Wire, 13/32" Cord Hole 15A-125V | 2 |
| N0419 | Ground Adapter, Vinyl Construction, Polarized, 15A-125V | 2 |
| N2867 | Armored Plug, Male, 2 Pole, 3 Wire, 15A-125V | 1 |
| N2887 | Armored Connector Female, 2 Pole, 3 Wire, 15A-125V | 1 |



N2867



N2887

ELECTRICAL TAPE



| Part No. | Description | Quantity |
|----------|---|----------|
| N5255 | All Purpose Vinyl Tape, 3/4" X 66' Roll | 1 |






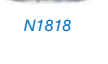


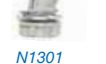







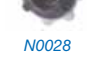

LIGHT BULBS ROUGH SERVICE






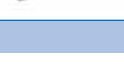


| Part No. | Wattage | Quantity |
|----------|---------|----------|
| N5231 | 75 W | 1 |
| N5232 | 100 W | 1 |

NATIONAL REFRIGERATION PRODUCTS


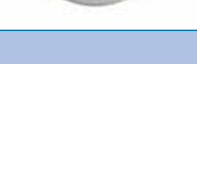

CONDUIT FITTINGS

| | | | Part No. | Description | Quantity |
|---|--|--|----------|--|----------|
|  N1311  N1320  N0310 | | | N1311 | BX Connector, 1/2" Knockouts, 3/8" Trade Size | 25 |
| | | | N1315 | 90° Connector, Steel Cover 1/2" Knockouts, 3/8" Trade Size | 3 |
| | | | N1318 | Duplex Connector, Clamp Type 1/2" Knockouts, 3/8" Trade Size | 2 |
|  N1308  N1307  N1818 | | | N1320 | Romex Connector, Clamp Type, 1/2" Knockouts, 3/8" Trade Size | 25 |
| | | | N1327 | Split Bolt Connector, #8 Wire | 3 |
|  N1301  N1328 | | | N1301 | 1/2" Offset Nipple | 2 |
| | | | N1303 | 1/2" Straight Conduit Bushing | 2 |
|  N0028  N0331 | | | N0028 | 1/2" Plastic Bushing | 5 |
| | | | N0331 | Anti-Short Bushing, 14/2, 14/3, 12/2 | 35 |
|  N0310  N1304 | | | N0310 | Reducing Washer, 3/4" x 1/2" | 28 |
| | | | N1304 | 1" One Hole EMT Strap | 8 |
|  N1305  N1306 | | | N1305 | 1-1/4" One Hole EMT Strap | 8 |
| | | | N1306 | 1/2" One Hole EMT Strap | 20 |
|  N1307  N0273 | | | N1307 | 3/4" One Hole EMT Strap | 12 |
| | | | N0273 | Insulated Romex Staples 1/2" x 1" | 50 |
|  N0028  N0331 | | | N0274 | Romex Staples 1/2" x 1" | 350 |

NON-METALLIC LIQUID TIGHT CONDUIT FITTINGS



| | | | Part No. | Description | Quantity |
|---|--|--|----------|--------------------------|----------|
|  LT7500  LT7501  LT7504  LT7505  LT7508  LT7509 | | | LT7500 | 1/2" Straight Connection | 1 |
| | | | LT7501 | 3/4" Straight Connection | 1 |
| | | | LT7504 | 1/2" 90° Connection | 1 |
| | | | LT7505 | 3/4" 90° Connection | 1 |
| | | | LT7508 | 1/2" 45° Connection | 1 |
| | | | LT7509 | 3/4" 45° Connection | 1 |

HVAC WHIPS

| | | | Part No. | Length | Wire Size | Connector | Quantity |
|---|--|--|----------|-----------|-----------|-----------|----------|
|  N63124  N63126  N63344 N63346 | | | N63124 | 1/2" x 4' | #10 | 1/2" | 1 |
| | | | N63126 | 1/2" x 6' | #10 | 1/2" | 1 |
| | | | N63344 | 3/4" x 4' | #8 | 3/4" | 1 |
| | | | N63346 | 3/4" x 6' | #8 | 3/4" | 1 |

NATIONAL REFRIGERATION PRODUCTS

ELECTRICAL BOXES

|   | Part No. | Description | Quantity |
|--|----------|--|----------|
| | N0360 | Utility Box, 2-1/8" x 4" x 1-7/8" Deep, 1/2" Knockouts | 1 |
| | N0361 | Utility Box, 2-1/8" x 4" x 2-1/8" Deep, 1/2" Knockouts | 1 |
| | N0362 | 1900 Shallow Box, 4" x 4" x 1-1/2" Deep, 21.0 Cu. In., 1/2" and 3/4" Knockouts | 1 |
| | N0363 | 1900 Deep Box 4" x 4" x 2-1/8" Deep, 30.3 Cu. In., 1/2" and 3/4" Knockouts | 1 |
| | N0364 | Octagon Box 4" x 4" x 1-1/2" Deep, 1/2" and 3/4" Knockouts | 1 |

ELECTRIC BOX & SWITCH COVERS

|         | Part No. | Description | Quantity |
|--|----------|--|----------|
| | N0365 | Toggle Switch Utility Cover, 2-1/8" x 4-1/8", Plated Finish | 1 |
| | N0366 | Duplex Receptacle Cover, 2-1/8" x 4-1/8", Plated Finish | 1 |
| | N0367 | Blank Utility Cover, 2-1/8" x 4-1/8", Plated Finish | 1 |
| | N0368 | Toggle Duplex Cover, 4" Square, Plated Finish | 1 |
| | N0369 | Square Cover / Duplex Receptacle, 4" Square, Plated Finish | 1 |
| | N0371 | Square Cover, Blank, 4" x 4", Plated Finish | 1 |
| | N0372 | Octagonal Cover, Blank, 3-5/8" x 3-5/8", Plated Finish | 1 |
| | N0373 | Oil Burner Cover, 4" x 2-1/8", Red Finish | 1 |
| | N0374 | Gas Burner Cover, 4" x 2-1/8", Red Finish | 1 |
| | N0375 | Utility Box Cover, 250V Receptacle, 2-1/8" x 4-1/8", Plated Finish | 1 |
| | N0377 | Single Toggle Utility Cover, 4" Square | 1 |
| | N0384 | Weatherproof Box with Switch & Cover, 4-9/16" x 2-7/8" x 2-1/8" | 1 |

FUSE & UTILITY COVER

|  | Part No. | Description | Quantity |
|---|----------|---|----------|
| | N0381 | Fuse / Outlet & Cover, 1/2 Hp, Single Pole Switch, 125V | 1 |

NATIONAL REFRIGERATION PRODUCTS

ELECTRICAL RECEPTACLES



| Part No. | Description | Quantity |
|-----------------------|---|----------|
| N0270 | Duplex Receptacle, 2 Pole, 3 Wire, 15A-125V | 1 |
| N0877 | Duplex Receptacle, 2 Pole, 3 Wire, 20A-125V | 1 |
| N1876 | Single Receptacle, 2 Pole, 3 Wire, 20A-250V | 1 |



WALL SWITCHES



| Part No. | Description | Quantity |
|-----------------------|--|----------|
| N0777 | On-Off, 15A, 120V | 1 |
| N1238 | Wall Switch, Silent, 1 Pole, 20A-120/277V AC | 1 |
| N1262 | Wall Switch, Silent, 2 Pole, 15A-120/277V AC | 1 |

TOGGLE SWITCHES All switches rated 10/15A, 125/250 V



| Part No. | Description | Quantity |
|-----------------------|--------------------------|----------|
| N0447 | SPST, Bat Handle, On-Off | 1 |
| N0453 | DPDT, On-On | 1 |
| N0454 | SPDT, On-On | 1 |
| N0455 | DPST, On-Off | 1 |
| N0494 | DPDT, On-Off-On | 1 |

NATIONAL REFRIGERATION PRODUCTS

SHEET METAL SCREWS Hex Head, Slotted Steel, Zinc-Plated



| Part No. | Length (In.) | Size | Quantity |
|----------|--------------|------|----------|
| N6843H | 1/2" | #8 | 84 |
| N6845H | 3/4" | #8 | 70 |
| N6846H | 1" | #8 | 58 |
| N6853H | 1/2" | #10 | 62 |
| N6855H | 3/4" | #10 | 52 |
| N6856H | 1" | #10 | 47 |
| N6858 | 1-1/2" | #10 | 34 |
| N6859 | 2" | #10 | 24 |
| N6865 | 3/4" | #12 | 38 |
| N6866 | 1-1/2" | #12 | 33 |

SHEET METAL SCREWS Self-Piercing, Steel, Zinc-Plated



| Part No. | Length (In.) | Size | Quantity |
|----------|--------------|------|----------|
| N6933C | 1/2" | #8 | 100 |
| N6933M | 1/2" | #8 | 1000 |

SHEET METAL SCREWS TEKS Self-drilling, Steel, Zinc-Plated



| Part No. | Length (In.) | Size | Quantity |
|----------|--------------|------|----------|
| N6943C | 1/2" | #8 | 100 |
| N6943D | 1/2" | #8 | 500 |
| N6945C | 3/4" | #8 | 100 |
| N6945D | 3/4" | #8 | 500 |
| N6955C | 3/4" | #10 | 100 |
| N6955D | 3/4" | #10 | 500 |

HEX HEAD CAP SCREWS Grade 2 Steel, Zinc-Plated, USS



| Part No. | Length (In.) | Size | Quantity |
|----------|--------------|------------|----------|
| N6601 | 3/4" | 1/4" - 20 | 24 |
| N6602 | 1" | 1/4" - 20 | 23 |
| N6603 | 1-1/2" | 1/4" - 20 | 17 |
| N6621 | 3/4" | 5/16" - 18 | 17 |
| N6622 | 1" | 5/16" - 18 | 15 |
| N6623 | 1-1/2" | 5/16" - 18 | 15 |
| N6641 | 3/4" | 3/8" - 16 | 11 |
| N6642 | 1" | 3/8" - 16 | 10 |
| N6643 | 1-1/2" | 3/8" - 16 | 8 |
| N6644 | 2" | 3/8" - 16 | 6 |

NATIONAL REFRIGERATION PRODUCTS

STOVE BOLTS Steel, Zinc-Plated



| Part No. | Length (In.) | Size | Quantity |
|----------|--------------|------------|----------|
| N6401 | 1/2" | 3/16" - 24 | 33 |
| N6402 | 3/4" | 3/16" - 24 | 30 |
| N6403 | 1" | 3/16" - 24 | 25 |
| N6412 | 3/4" | 1/4" - 20 | 20 |
| N6413 | 1" | 1/4" - 20 | 17 |
| N6414 | 1-1/2" | 1/4" - 20 | 14 |
| N6415 | 2" | 1/4" - 20 | 12 |
| N6416 | 2-1/2" | 1/4" - 20 | 10 |

MOLLY SCREWS



| Part No. | Wall Thickness | Hole Size | Quantity |
|----------|----------------|-----------|----------|
| N7302 | 1/2" | 1/4" | 6 |
| N7303 | 3/4" | 1/4" | 6 |

TOGGLE BOLTS Steel, Zinc-Plated



| Part No. | Length (In.) | Bolt Size | Hole Size | Quantity |
|----------|--------------|-----------|-----------|----------|
| N7033 | 4" | 3/16" | 1/2" | 6 |
| N7034 | 4" | 1/4" | 5/8" | 5 |
| N7036X | 4" | 3/8" | 7/8" | 4 |
| N7063 | 6" | 3/16" | 1/2" | 5 |
| N7066X | 6" | 3/8" | 7/8" | 4 |

HEX SOCKET SET SCREWS



| Part No. | Assortment Includes | Quantity |
|----------|----------------------------------|----------|
| N6000 | 1/4" - 20, 5/16" - 18, 3/8" - 16 | 16 |
| N6001 | #8 - 32, #10 - 32, 1/4" - 28 | 23 |

FLAT WASHERS Zinc-Plated, USS Classification



| Part No. | Nominal Washer Size | Quantity |
|----------|----------------------|----------|
| N6700A | Assortment (6 Sizes) | 107 |
| N6701 | 3/16" | 127 |
| N6702 | 1/4" | 86 |
| N6703 | 5/16" | 45 |
| N6704 | 3/8" | 34 |
| N6706 | 1/2" | 16 |

NATIONAL REFRIGERATION PRODUCTS

FENDER WASHERS



| Part No. | O.D. | Nominal Size | Quantity |
|------------------------|--------|--------------|----------|
| N6722 | 1-1/4" | 1/4" | 23 |
| N6722C | 1-1/4" | 1/4" | 100 |
| N6724 | 1-1/2" | 3/8" | 18 |

SPLIT LOCK WASHERS



| Part No. | Nominal Washer Size | Quantity |
|-----------------------|---------------------|----------|
| N6731 | 1/4" | 85 |
| N6732 | 5/16" | 70 |
| N6733 | 3/8" | 48 |

FLAT WASHERS



| Part No. | Size | Quantity |
|-----------------------|------|----------|
| N38WL | 3/8" | 50 |

FINISHED HEX NUTS Steel, Zinc-Plated



| Part No. | Size | Quantity |
|-----------------------|------------|----------|
| N6501 | 1/4" - 20 | 57 |
| N6502 | 5/16" - 18 | 37 |
| N6503 | 3/8" - 16 | 26 |
| N6505 | 1/2" - 13 | 11 |

HEX NUTS Steel, Zinc-Plated



| Part No. | Size | Quantity |
|------------------------|-----------|----------|
| N38HNL | 3/8" - 16 | 50 |

MACHINE SCREW HEX NUTS #2 Steel, Zinc-Plated



| Part No. | Size | Quantity |
|------------------------|--|----------|
| N6500A | Assortment #6 - 32, #8 - 32, #10 - 32 | 60 |

NATIONAL REFRIGERATION PRODUCTS

COTTER PINS



| Part No. | Size | Quantity |
|----------|---|----------|
| N6011 | Assorted - 1/16" x 1", 3/32" x 1-1/2", 1/8" x 1-1/2" | 66 |

WALL ANCHOR KITS



| Part No. | Description | Quantity |
|----------|---|----------|
| N7104BC | Red Anchors with #8 x 1" Screws & 3/16" Drill Bit | 100 |
| N7106BC | Green Anchors with #10 x 1" Screws & 1/4" Drill Bit | 100 |
| N7124BC | Orange Flanged Anchors with #10 x 1" Screws & 1/4" Drill Bit | 100 |

MOTOR SHAFT KEYS



| Part No. | Size | Quantity |
|----------|----------------------------|----------|
| N6101 | Assortment (4 sizes) Small | |
| | 1/8 x 1-1/4" | 2 |
| | 3/16 x 1-1/8" | 4 |
| | 1/4 x 1-3/4" | 2 |
| | 3/16 x 1/4 x 1-1/8" | 2 |
| N6102 | Assortment (3 sizes) Large | |
| | 1/4 x 1-3/4" | 3 |
| | 5/16 x 3" | 2 |
| | 3/8 x 3" | 2 |

HOSE CLAMPS Stainless steel housings & bands. Screws are plated steel.



| Part No. | S.A.E. No. | Diameter Range | | Quantity |
|----------|------------|----------------|-------|----------|
| | | Min. | Max. | |
| N6202 | — | .25" | .62" | 6 |
| N6203 | 6 | .44" | .78" | 6 |
| N5410 | 10 | .56" | 1.06" | 6 |
| N5416 | 16 | .81" | 1.50" | 6 |
| N5420 | 20 | .81" | 1.75" | 6 |
| N5424 | 24 | 1.06" | 2.00" | 6 |
| N5436 | 36 | 1.81" | 2.75" | 4 |

NATIONAL REFRIGERATION PRODUCTS

WORK GLOVES



| Part No. | Description | Quantity |
|--------------|--------------------------------|----------|
| A713 | 12" Long Blue Rubber Glove | 1 |
| A761 | Black Rubber Glove, Knit Wrist | 1 |
| A1321 | Unlined Brown Jersey Glove | 1 |
| R5234 | Industrial Leather Palm Glove | 1 |
| R5281 | Drivers Glove | 1 |
| R5286 | Unlined Leather Glove | 1 |
| R5287 | Lined Leather Glove | 1 |
| NGXL | Nitrile Gloves, Extra Large | 100 |

GOGGLES & MASKS



| Part No. | Description | Quantity |
|----------------|---------------------------------|----------|
| A30022 | Liquid Splash Goggles, Fog-Free | 1 |
| N164002 | UVEX Astrospec Safety Glasses | 1 |
| N8500V | Disposable Dust Mask | 5 |

FIRST AID KIT



| Part No. | Description | Quantity |
|--------------|------------------------|----------|
| N5290 | Personal First-Aid Kit | 1 |

NATIONAL REFRIGERATION PRODUCTS

A

| | |
|----------------------------|-------|
| Adapters | |
| Cylinder | 31 |
| Hose | 19 |
| Tank | 16 |
| Terminal Tab | 47 |
| Torch Handle | 30 |
| Torch Hose | 34 |
| Acid Test & Treatment Kits | 21 |
| Adhesive Spray | 23 |
| Aerosols | 22-23 |
| Air-Acetylene Equipment | 29-31 |
| Alligator Clips | 51 |
| Anchor Kits | 58 |
| Aviation Snips | 38 |
| Awls | 40 |

B

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| Ball Joint Separator | 38 |
| Belts, Utility | 44 |
| Blades, Utility Knife | 40 |
| Bolts | |
| Stove | 56 |
| Toggle | 56 |
| Boxes | |
| Electrical | 53 |
| Covers | 53 |
| Brazing Torch Equipment | 31-32 |
| Brushes | 43 |

C

| | |
|----------------------|----|
| Cable | |
| Clamps | 48 |
| Markers | 50 |
| Mounts | 48 |
| Staples | 50 |
| Ties | 48 |
| Cap Screws | 55 |
| Caulking Gun | 41 |
| Chemical Cleaners | 20 |
| Aerosol | 22 |
| Coil | 20 |
| Ice Machine | 20 |
| Scale Dissolver | 24 |
| Chisel Sets | 40 |
| Clamps | |
| Cable | 48 |
| Hose | 58 |
| Pipe | 25 |
| Clips | 25 |
| Conduit | |
| Fittings | 52 |
| Non Metallic | 44 |
| Connectors | |
| Butt | 45 |
| Dead End | 47 |
| Tap | 47 |
| Copper Cleaning Pads | 44 |

| | |
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| Core Remover | 18 |
| Cotter Pins | 58 |
| Cylinder | |
| Adapter | 31 |
| Recovery | 15 |
| Stand | 31 |
| Wrench | 34 |

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| Dead End Connectors | 47 |
| Degreaser | 24 |
| Dessicant | 12 |
| Drier | |
| Industrial | 12 |
| Filter | 16 |
| Dust Mask | 59 |

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|--------------------------------|-------|
| Electrical | |
| Box Covers | 53 |
| Boxes | 53 |
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| Ground Adapters | 51 |
| Plugs | 51 |
| Receptacles | 54 |
| Switches | 54 |
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| Bullet Plug & Receptacle | 45 |
| Butt | 45 |
| Dead End Connector | 47 |
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| Flag Female Slip-On | 46 |
| Flag Female Slip-On | |
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| Spade | 46 |
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G

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| Pressure | 18 |
| Refrigerant | 18 |
| Regulator | 34 |

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| Jersey | 59 |
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| Grease | |
| Cartridges | 41 |
| Fittings | 41 |
| Guns | 41 |
| Guns | |
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| Hook-Up Wire | 49 |
| Hoses | |
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K

| | |
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| Compressor Lead | 51 |
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| Hex Socket Set Screws | 56 |
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Motor Shaft Key

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Nut Setter

Nuts

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O

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Oilers

Oxy-Fuel Equipment

P

Pipe Clamps

Pressure Gauges

Pumps, Liquid Refrigerant

Propane Torch

Pliers

Phillips Screwdrivers

Pinch-Off Tool

PVC Tubing

Plugs, Electrical

Punch Set

R

Rags

Ratchet Wrenches

Receptacle Covers

Receptacles

Recovery Equipment

| | |
|-----------------------|----|
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|-----------------------|----|

Commercial

Cylinders

Liquid Pumps

Portable

Recycling

Refrigerant

Hoses

Labels

Tags

Romex Wire

Rope

S

Safety Glasses

Sand Cloth

Saws

Scale, Dissolver, & Remover

Scrapers

Screwdrivers

8 in 1

Bit Set

Phillips

Pocket

Slotted

Screws

Cap, Hex Head

Molly

Self-Piercing

Set, Hex Socket

Sheet Metal

Teks

Sealing Cord

Sealing Gum

Sealtite Connectors

Service Cords, SJT

Shut-Off Valves

Sight Glasses

Silicone, Food Grade

Snips, Aviation

Sprayers

Staples, Romex

Switches

Toggle

Wall

T

Tapes

Cork

Electrical

Foam

Measuring

Terminal

Blocks

Kits

Terminal Connectors

Butt

Dead End

Flag

Ring

Slip-On

Spade

Tab

Terminal Repair Kits

Test, Leads & Clips

Thermostat Wire

Ties, Cable

Toggle

Bolts

Switches

Tool

Belts

Box

Pouch

Tote

Bags

Trays

Torch Kits

Towels

Trouble Lights

Tubing

Heat Shrink

PVC

U

Utility Knife & Blades

V

Valves, Shut-Off

Vice Grips

Vinyl Tubing

W

Wall Anchor Kits

Wall Switches

Washers

Fender

Flat

Lock

Reducing

Water Treatment

Weatherproof Boxes

Welding/Brazing Equipment

Whips

Wire

Hook-Up

Nuts

Romex

Service Cord

Thermostat

Wrenches

Adjustable

Combination

Cylinder

Flare Nut

Hex Key

Pipe

Ratchet

NATIONAL REFRIGERATION PRODUCTS

| | | | | | | | | | |
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| 053..... | 16 | LIMEOUT..... | 24 | N0366..... | 53 | N1985..... | 43 | N325015..... | 32 |
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| N6228L | 46 | N631B | 49 | N6700A | 56 | N9007 | 36 | N95008 | 36 |
| N6229L | 46 | N631R | 49 | N6701 | 56 | N9008R | 40 | N956090 | 43 |
| N6231 | 45 | N632B | 49 | N6702 | 56 | N9009 | 36 | N96B | 17 |
| N6232L | 45 | N632R | 49 | N6703 | 56 | N9010 | 36 | N96R | 17 |
| N6233L | 46 | N632W | 49 | N6704 | 56 | N9011 | 36 | N96RBY | 17 |
| N6234L | 46 | N63344 | 52 | N6706 | 56 | N9013 | 36 | N96Y | 17 |
| N6235L | 45 | N63346 | 52 | N6722 | 57 | N9014 | 36 | NAA1 | 30 |
| N6236L | 45 | N6336 | 49 | N6722C | 57 | N9015 | 36 | NAB36B | 19 |
| N6237L | 46 | N6337 | 49 | N6724 | 57 | N9016 | 36 | NAB36R | 19 |
| N6238L | 46 | N633B | 49 | N6731 | 57 | N9018 | 38 | NAB36RBY | 19 |
| N6239L | 46 | N633R | 49 | N6732 | 57 | N9019 | 38 | NAB36Y | 19 |
| N6241 | 47 | N633W | 49 | N6733 | 57 | N9021 | 38 | NAB45 | 19 |
| N6250N | 47 | N6341 | 49 | N6843H | 55 | N9024 | 36 | NAB48B | 19 |
| N6251 | 45 | N6343 | 49 | N6845H | 55 | N9041 | 40 | NAB48R | 19 |
| N6251L | 45 | N6345 | 49 | N6846H | 55 | N9042 | 38 | NAB48RBY | 19 |
| N6252L | 45 | N6346 | 49 | N6853H | 55 | N9043 | 38 | NAB48Y | 19 |
| N6253L | 45 | N6348 | 49 | N6855H | 55 | N9044 | 38 | NAB60R | 19 |
| N6255L | 46 | N634B | 49 | N6856H | 55 | N9045 | 37 | NAB60RBY | 19 |

NATIONAL REFRIGERATION PRODUCTS

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