**G1 SINGLE**

**PORTABLE REFRIGERANT RECOVERY UNIT**

**OIL-LESS, SINGLE CYLINDER**

---

**Features**
- Refrigerant-isolated crankcase eliminates bearing contamination
- Solid-mounted pistons eliminate wrist pins and bushing wear
- 7-inch, 10-blade turbine fan blasting 600 CFM of cooling air
- 550 PSI high pressure shut off for R410A
- Pumps direct liquid and vapor
- Simple, easy-to-use design; no purge cycle required
- Pumps virgin refrigerant; no oil required
- Field serviceable
- UL certified per ARI Standard 740-98

**Specifications**
- **Power:** 1/2 HP, 115 VAC, 60 Hz, 10 Amps
- **Weight:** 22 Lbs
- **Dimensions:** 11.38” L x 9.40” W x 10.30” H

**Applications**
- Commercial A/C
- Commercial Refrigeration
- Residential A/C
- Appliances
- Roof Top Units
- Ductless Splits
- Heat Pumps
- PTACs
- Vending Machines
- Ice Machines

---

**FOR USE WITH:**

- **Group III**
  - R12, R134a, R401C, R406A, R500
- **Group IV**
- **Group V**

---

**Recovery Diagram**

---

**RATED IN ACCORDANCE WITH ARI STANDARD 740-98**

<table>
<thead>
<tr>
<th>Refrigerant Groups</th>
<th>Push/Pull Liquid Refrigerant</th>
<th>Liquid Refrigerant</th>
<th>Vapor Refrigerant</th>
</tr>
</thead>
<tbody>
<tr>
<td>III</td>
<td>10.78 lbs./min.</td>
<td>8.53 lbs./min.</td>
<td>0.26 lbs./min.</td>
</tr>
<tr>
<td>IV</td>
<td>11.31 lbs./min.</td>
<td>5.83 lbs./min.</td>
<td>0.31 lbs./min.</td>
</tr>
<tr>
<td>V</td>
<td>12.14 lbs./min.</td>
<td>4.31 lbs./min.</td>
<td>0.26 lbs./min.</td>
</tr>
</tbody>
</table>
PORTABLE REFRIGERANT RECOVERY UNIT, OIL-LESS, TWIN CYLINDERS

**Manufactured by**

FOR USE WITH:

**Group III**  
R12, R134a, R401C, R406A, R500

**Group IV**  
R22, R401A, R409A, R401B, R412A, R411A,  
R408A, R509

**Group V**  

---

**Features**

- Suitable for high-volume recovery
- Twin cylinders/twin condensers
- Refrigerant-isolated crankcase eliminates bearing contamination
- Solid-mounted pistons eliminate wrist pins and bushing wear
- 7-inch, 10-blade turbine fan blasting 600 CFM of cooling air
- 550 PSI high pressure shut off for R410A
- Simple, two-valve operation; no purge cycle required
- Pumps direct liquid and vapor with no throttling required
- Pumps virgin refrigerant; no oil required
- Field serviceable

---

**Specifications**

- **Power:** 1/2 HP, 115 VAC, 60 Hz, 10 Amps
- **Weight:** 24 Lbs
- **Dimensions:** 13.75” L x 9.40” W x 10.30” H

**Applications**

- Commercial A/C
- Commercial Refrigeration
- Residential A/C
- Chillers
- Supermarkets
- Ocean Vessels
- Factory/Production Lines
- Pumping Stations
- Salvage Yards
- Ice Rinks
- Roof Top Units

---

**Recovery Diagram**

---

**Rated in Accordance with ARI Standard 740-98**

<table>
<thead>
<tr>
<th>Refrigerant Groups</th>
<th>Push/Pull Liquid Refrigerant</th>
<th>Liquid Refrigerant</th>
<th>Vapor Refrigerant</th>
</tr>
</thead>
<tbody>
<tr>
<td>III</td>
<td>16.59 lbs./min.</td>
<td>6.20 lbs./min.</td>
<td>0.61 lbs./min.</td>
</tr>
<tr>
<td>IV</td>
<td>17.58 lbs./min.</td>
<td>6.99 lbs./min.</td>
<td>0.55 lbs./min.</td>
</tr>
<tr>
<td>V</td>
<td>10.19 lbs./min.</td>
<td>3.47 lbs./min.</td>
<td>0.66 lbs./min.</td>
</tr>
</tbody>
</table>
Features: GS3700
• Fastest overall recovery rates in its class
• Rugged high density double walled housing
• Self purge to prevent cross contamination
• Pumps liquid or vapor at the same time
• Powerful 1 HP oil-less compressor
• Built in suction filter
• Low pressure shut-off
• High pressure shut-off for R410A

Features: GS3710
• Same as above
• Overfill sensor cord

Specifications
Power: 1 HP, 115 Volt, 50/60 Hz
Weight: 36 Lbs
Dimensions: 14.50” L x 8” W x 12” H

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

FOR USE WITH:
Group III  R12, R134a, R401C, R406A, R500

Direct Liquid/Vapor Recovery Diagram

Liquid Push-Pull Recovery Diagram

RATED IN ACCORDANCE WITH ARI STANDARD 740-98

<table>
<thead>
<tr>
<th>Refrigerant Groups</th>
<th>Push/Pull Liquid Refrigerant</th>
<th>Liquid Refrigerant</th>
<th>Vapor Refrigerant</th>
<th>Shut-Off Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>III</td>
<td>13.88 lbs./min.</td>
<td>4.74 lbs./min.</td>
<td>0.33 lbs./min.</td>
<td>10”</td>
</tr>
<tr>
<td>IV</td>
<td>15.80 lbs./min.</td>
<td>6.86 lbs./min.</td>
<td>0.49 lbs./min.</td>
<td>10”</td>
</tr>
<tr>
<td>V</td>
<td>15.36 lbs./min.</td>
<td>6.50 lbs./min.</td>
<td>0.51 lbs./min.</td>
<td>10”</td>
</tr>
</tbody>
</table>
PORTABLE REFRIGERANT RECOVERY UNIT

LV2000

For use with:
Group III  R12, R134a, R401C, R406A, R500

Features: LV2000
- Patented pump-out feature
- Patented compressor sight glass for monitoring of oil level and easy access compressor oil drain
- Electrical cord wrap
- Low cost
- Easy to use
- Attractive, compact design

Features: LV2001
- Same as above
- 3 positive shut-off hoses and liquid sight/glass

Specifications
Power: 8 Amps, 115 Volt, 60 Hz, 1PH (LV2000, LV2001)
4 Amps, 220 Volt, 50 Hz, 1PH (LV2002)
Unit Weight: 47 Lbs
Shipping Weight: 54 Lbs
Dimensions: 20" L x 10.50" W x 15" H
Connections: 1/4" MFL
Oil Charge: 150 Alkyl Benzene

Applications
- Commercial A/C
- Ice Machines
- Residential A/C
- Appliances

Liquid Recovery Diagram

Note: Always use a filter drier in vapor inlet of unit to protect the compressor and cro valve

CAUTION: Only connect the cylinder vapor line to the inlet valve. Liquid will damage the compressor.

Vapor Recovery Diagram

Note: Always fill the 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

<table>
<thead>
<tr>
<th>Refrigerant Groups</th>
<th>Push/Pull Liquid Refrigerant</th>
<th>Vapor Refrigerant</th>
<th>Shut-Off Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>GR III</td>
<td>10.25 lbs./min.</td>
<td>0.48 lbs./min.</td>
<td>10&quot;</td>
</tr>
<tr>
<td>GR IV</td>
<td>11.00 lbs./min.</td>
<td>0.46 lbs./min.</td>
<td>10&quot;</td>
</tr>
<tr>
<td>GR V</td>
<td>8.30 lbs./min.</td>
<td>0.33 lbs./min.</td>
<td>10&quot;</td>
</tr>
</tbody>
</table>

Fax: 215-638-9270 info@nrproducts.com Langhorne, Pa 19047
COMBINATION OIL-LESS REFRIGERANT RECOVERY UNIT AND VACUUM PUMP

Patented True Vacuum Pump Pulls 500 Microns!

FOR USE WITH
Group III  R12, R134A, R401C, R406A, R500

Features for REVAC
- Two units in one!
- 1 HP compressor (1.5 CFM)
- Accessory compartment
- Attractive tool box design
- True vacuum pump - 500 microns
- Manual or auto switching to system evacuation
- 1/4” hose adapters
- 053 drier supplied

Additional Features for REVAC-UL
- Tank overfill protection
- UL listed
- Comes with 3 hoses, a 50 lb. cylinder and sight glass
- Patented pump out feature

Specifications
Power: 1 HP, 12.5 Amps, 115 Volt, 60 Hz, 1PH
Unit Weight: 50 Lbs
Shipping Weight: 58 Lbs
Dimensions: 10.25” L x 22” W x 11” H
Connections: 3/8” MFL

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

Liquid Recovery Diagram

CAUTION: Do Not disconnect the liquid line to the recovery unit. The compressor could be damaged.

RATED IN ACCORDANCE WITH ARI STANDARD 740-98

<table>
<thead>
<tr>
<th>Refrigerant Groups</th>
<th>Push/Pull Liquid Refrigerant</th>
<th>Vapor Refrigerant</th>
<th>Shut-Off Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>GR III</td>
<td>12.35 lbs./min.</td>
<td>0.40 lbs./min.</td>
<td>10&quot;</td>
</tr>
<tr>
<td>GR IV</td>
<td>13.05 lbs./min.</td>
<td>0.42 lbs./min.</td>
<td>10&quot;</td>
</tr>
</tbody>
</table>

* May not be applicable for all refrigerant blends. Consult factory for proper application.
One Step Recovery
No Switching Hoses!
SUBCOOL FEATURE

Features
- One step recovery
- Automatic sensing of liquid and vapor
- No switching hoses
- Attractive tool box design
- Tool and accessory compartment
- Tank overfill protection
- Self clearing mode
- Comes with 4 positive shut-off hoses and 50 Lb. cylinder
- Automatic shut-off at 10" Vacuum
- 053 drier supplied

Specifications
- Power: 9 Amps, 115 Volt, 60 Hz, 1PH
- Unit Weight: 46 Lbs
- Shipping Weight: 59 Lbs
- Connections: 3/8" MFL
- Dimensions: 10.25" L x 22" W x 11" H

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

Recovery Diagram

RATED IN ACCORDANCE WITH ARI STANDARD 740-98

<table>
<thead>
<tr>
<th>Refrigerant Groups</th>
<th>Push/Pull Liquid Refrigerant</th>
<th>Vapor Refrigerant</th>
<th>Shut-Off Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>III</td>
<td>10.8 lbs/min.</td>
<td>0.35 lbs./min.</td>
<td>10&quot;</td>
</tr>
<tr>
<td>IV</td>
<td>11.5 lbs./min.</td>
<td>0.50 lbs./min.</td>
<td>0&quot;</td>
</tr>
</tbody>
</table>

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

Features

- 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

Specifications

Capacity: Liquid recovery / Recycling up to .60 lb./min.
Vapor recovery / Recycling up to .40 lb./min.
Power: 6.70 Amps, 115 Volt, 60 Hz, 1PH (RLV700)
4.5 Amps, 220 Volt, 50 Hz, 1PH, (RLV700E)
Unit Weight: 120 Lbs
Shipping Weight: 164 Lbs
Dimensions: 15” L x 16” W x 35” H
Vacuum: 10” Hg
Connections: 3/8” MFL
Oil Charge: 150 Alkyl Benzene

Applications

- Contractor shop
- Equipment room

Liquid and Vapor Recovery Diagram

For use with:
Group III R12, R134a, R401C, R406A, R500
Group IV R401A, R409A, R401B, R412A, R411A,
R408A, R509

* May not be applicable for all refrigerant blends. Consult factory for proper application.
The RAD700 is a recycling unit to be used on the job site in conjunction with a 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.

Features
- Easy to use
- 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

Specifications
Capacity: Liquid recovery/recycling rate of .35 lb./min.
Vapor recovery/recycling rate of .35 lb./min.
Power: 6.10 Amps, 115 Volt, 60 Hz, 1PH (RAD700)
3.5 Amps, 220 Volt, 50 Hz, 1PH, (RAD700E)
Unit Weight: 35 Lbs
Shipping Weight: 44 Lbs
Connections: 1/4” MFL
Dimensions: 15" L x 12" W x 12" H
Vacuum: 10” Hg

<table>
<thead>
<tr>
<th>Standard (R12)</th>
<th>RAD700</th>
<th>IRG2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>10 PPM</td>
<td>10 PPM</td>
</tr>
<tr>
<td>Acidity</td>
<td>1 PPM</td>
<td>1 PPM</td>
</tr>
<tr>
<td>Chloride</td>
<td>Pass</td>
<td>Pass</td>
</tr>
<tr>
<td>Oil Residue</td>
<td>0.02%</td>
<td>0.02%</td>
</tr>
<tr>
<td>Non-Condensables</td>
<td>2%</td>
<td>2%</td>
</tr>
<tr>
<td>Particulates</td>
<td>Pass</td>
<td>Pass</td>
</tr>
</tbody>
</table>

Applications
- Commercial A/C
- Commercial refrigeration
- Residential A/C
- Rooftop units

* May not be applicable for all refrigerant blends. Consult factory for proper application.
LV20

LARGE CAPACITY RECOVERY UNIT

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 HP 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.

Specifications
Air supply capacity: 40 CFM air at 100 PSI
Vapor recovery: 1.40 lbs./min.
Liquid recovery: 52 lbs./min.
Unit weight: 125 Lbs
Shipping weight: 158 Lbs
Dimensions: 28” L x 26” W x 45” H
Connections: 3/8” MFL Inlet, 3/8” MFL Outlet

Applications
- Best suited for the industrial application where plant air is available
- Ideal for marine application
- Excellent for quick recovery in supermarkets or food plant systems which cannot afford downtime

Rated in accordance with ARI Standard 740-98

<table>
<thead>
<tr>
<th>Refrigerant</th>
<th>Push/Pull Liquid Refrigerant</th>
<th>Liquid Refrigerant</th>
<th>Vapor Refrigerant</th>
<th>Shut-Off Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Groups</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>II</td>
<td>22 lbs./min.</td>
<td>9.4 lbs./min.</td>
<td>0.50 lbs./min.</td>
<td>15”</td>
</tr>
<tr>
<td>III</td>
<td>44 lbs./min.</td>
<td>16 lbs./min.</td>
<td>0.88 lbs./min.</td>
<td>15”</td>
</tr>
<tr>
<td>IV</td>
<td>52 lbs./min.</td>
<td>16 lbs./min.</td>
<td>1.25 lbs./min.</td>
<td>10”</td>
</tr>
<tr>
<td>V</td>
<td>20 lbs./min.</td>
<td>18 lbs./min.</td>
<td>1.26 lbs./min.</td>
<td>20”</td>
</tr>
</tbody>
</table>

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

For use with:
Group II  R114
Group III R12, R134a, R401C, R406A, R500

For use with:
Group II  R114
Group III R12, R134a, R401C, R406A, R500
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.

Specifications

<table>
<thead>
<tr>
<th>Power:</th>
<th>1.5 HP, 20 Amps, 230 Volt, 60 Hz, 1PH (LV5)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.5 HP, 16 Amps, 220 Volt, 50 Hz, 1PH (LV5E)</td>
</tr>
</tbody>
</table>

| Unit Weight: | 236 Lbs |
| Shipping Weight: | 267 Lbs |
| Dimensions: | 24” L x 22” W x 45” H |
| Connections: | 3/8” MFL Inlet, 3/8” MFL Outlet |

Applications

- Large field erected systems with long piping runs
- System requiring large vapor capacity
- Supermarkets
- Salvage yards

Liquid and Vapor Recovery Diagram

<table>
<thead>
<tr>
<th>Refrigerant Groups</th>
<th>Push/Pull Liquid Refrigerant</th>
<th>Liquid Refrigerant</th>
<th>Vapor Refrigerant</th>
<th>Shut-Off Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>III</td>
<td>27.50 lbs./min.</td>
<td>7.85 lbs./min.</td>
<td>1.00 lbs./min.</td>
<td>15”</td>
</tr>
<tr>
<td>IV</td>
<td>31.50 lbs./min.</td>
<td>10.25 lbs./min.</td>
<td>1.20 lbs./min.</td>
<td>10”</td>
</tr>
<tr>
<td>V</td>
<td>15.56 lbs./min.</td>
<td>7.8 lbs./min.</td>
<td>0.88 lbs./min.</td>
<td>22”</td>
</tr>
</tbody>
</table>

* May not be applicable for all refrigerant blends. Consult factory for proper application.
The LV8 recovery system is an air driven positive displacement pump which includes a 1.5 HP 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.

** Specifications **

- **Air Supply Capacity:** 10 CFM air at 100 PSI
- **Power:**
  - 1.5 HP, 10 Amps, 230 Volt, 60 Hz, 1PH, (LV8)
  - 1.5 HP, 8.5 Amps, 220 Volt, 50 Hz, 1PH, (LV8E)
  - 1.5 HP, 20 Amps, 115 Volt, 60 Hz, 1PH, (LV8/115)
  - 1.5 HP, 3 Amps, 460 Volt, 60 Hz, 3PH, (LV8/460)
- **Unit Weight:** 169 Lbs
- **Shipping Weight:** 202 Lbs
- **Dimensions:** 24" L x 22" W x 45" H
- **Connections:** 3/8" MFL Inlet, 1/2" FPT Outlet

** Applications **

- High pressure chillers
- Supermarkets
- Large packaged A/C units
- In factory units
- Salvage yards

** Liquid and Vapor Recovery Diagram **

**RATED IN ACCORDANCE WITH ARI STANDARD 740-98**

<table>
<thead>
<tr>
<th>Refrigerant Groups</th>
<th>Direct Liquid Refrigerant</th>
<th>Push/Pull Liquid Refrigerant</th>
<th>Vapor Refrigerant</th>
<th>Shut-Off Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>GR II</td>
<td>9.20 lbs./min.</td>
<td>11.50 lbs./min.</td>
<td>0.22 lbs./min.</td>
<td>15&quot;</td>
</tr>
<tr>
<td>GR III</td>
<td>15.00 lbs./min.</td>
<td>30.10 lbs./min.</td>
<td>0.30 lbs./min.</td>
<td>15&quot;</td>
</tr>
<tr>
<td>GR IV</td>
<td>16.50 lbs./min.</td>
<td>32.45 lbs./min.</td>
<td>0.29 lbs./min.</td>
<td>10&quot;</td>
</tr>
</tbody>
</table>

* May not be applicable for all refrigerant blends. Consult factory for proper application.
The VR11 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 HP belt-driven vacuum pump rated at 40 microns and 10.6 cfm. 

**Rated in accordance with ARI Standard 740-98.**

**Unit Includes**

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

**Specifications**

- Vapor recovery: 0.86 lbs./min.
- Liquid recovery: Push/Pull 84 lbs./min.
- Vacuum capacity: 29" Hg (20 AMP Service Required)
- Power: 1 HP, 18.50 Amps, 115 Volt, 1PH, (VR11)
  
1 HP, 6 Amps, 220 Volt, 50 Hz, 1PH, (VR11E)

**Applications**

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

**Liquid Recovery Diagram**

Liquid recovery is done by using the push-pull method as shown in the diagram above. 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 from 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.

Once all the liquid has been recovered, the remaining vapor can be extracted with the recovery unit as shown in the diagram above.

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 lb./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 Lbs of vapor will remain. This is less than 1% of the total charge, which meets EPA requirements.
RECOVERY UNITS

Specifications
Liquid Capacity: 5 lbs./min.
Unit Weight: 76 Lbs
Shipping Weight: 112 Lbs
Dimensions: 24” L x 22” W 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.

Liquid Recovery Diagram - LP13

Specifications
Vapor Capacity: 1.5 lbs./min.
Vacuum: 0 psig
Unit Weight: 95 Lbs.
Shipping Weight: 131 Lbs
Dimensions: 24” L x 22” W 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 100 PSI.

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.

Vapor Recovery Diagram - VR13
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 Lb cylinders are emptied & under vacuum in less than 25 minutes. The TS4 control panel is simple and easy to use.

**Specifications**

| Power: | 30 Amps, 230 Volt, 60 Hz, 1PH, (TS4) |
| Weight: | 375 Lbs |
| Dimensions: | 55” L x 27” W x 40” H |

Unit is supplied with four 3’ x 3/8” hoses and one 8’ x 3/8” hose.

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 HP 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 lb cylinders. Any cylinder with one or two valves can be used.

**DESICCANT**

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

Shipping Weight: 32 Lbs
Liquid Refrigerant Pumps

**PRACTICAL APPLICATIONS FOR LIQUID REFRIGERANT PUMPS**

**Recovery - system to cylinder transfer:**
Fast, safe and portable liquid refrigerant removal without venting. Saves wear and 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.

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

**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.

**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.

**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.

**LP11**
This fast and trouble free 1/2 HP 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.**

**LP12**
This 1/3 HP, 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.

**LP22**
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 approximately 20 pounds per minute and is supplied with a 1/2 HP motor.

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

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

---

**Dimensions**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Capacity</th>
<th>Power</th>
<th>Dimensions (In.)</th>
<th>Connections (In.)</th>
<th>Use with Refrigerants</th>
<th>Weight (Lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LP11</td>
<td>30 Lbs/Min</td>
<td>1/2 HP, 115 V, 60 Hz</td>
<td>10 L x 6 W x 8 H</td>
<td>3/4 Male Hose</td>
<td>R11, R113</td>
<td>12.5</td>
</tr>
<tr>
<td>LP12</td>
<td>16 Lbs/Min</td>
<td>1/3 HP, 115 V, 60 Hz</td>
<td>12 L x 6 W x 8 H</td>
<td>1/2 FPT</td>
<td>R12</td>
<td>18.5</td>
</tr>
<tr>
<td>LP22</td>
<td>20 Lbs/Min</td>
<td>1/2 HP, 115 V, 60 Hz</td>
<td>12 L x 10 W x 8 H</td>
<td>3/8 FPT</td>
<td>R11, R12, R22, R113, R123, R500, R502, R134a &amp; Blends</td>
<td>33</td>
</tr>
<tr>
<td>LPO</td>
<td>1.2 Gal/Min</td>
<td>1/2 HP, 220 V, 50 Hz</td>
<td>12 L x 10 W x 8 H</td>
<td>3/8 FPT</td>
<td>Transfers Refrigeration Oil</td>
<td>31</td>
</tr>
</tbody>
</table>

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

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Liquid Refrigerant Pumps

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.

<table>
<thead>
<tr>
<th>Refrigerant No.</th>
<th>Density Lb./Gal.</th>
</tr>
</thead>
<tbody>
<tr>
<td>114</td>
<td>12.0</td>
</tr>
<tr>
<td>12</td>
<td>10.8</td>
</tr>
<tr>
<td>502</td>
<td>10.2</td>
</tr>
<tr>
<td>113</td>
<td>13.0</td>
</tr>
<tr>
<td>500</td>
<td>9.5</td>
</tr>
<tr>
<td>11</td>
<td>12.2</td>
</tr>
<tr>
<td>22</td>
<td>9.8</td>
</tr>
<tr>
<td>121</td>
<td>N/A</td>
</tr>
<tr>
<td>123</td>
<td>12.3</td>
</tr>
<tr>
<td>134a</td>
<td>10.2</td>
</tr>
<tr>
<td>404</td>
<td>8.9</td>
</tr>
<tr>
<td>507</td>
<td>8.9</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Diameter of Smallest Passage On Inlet Side of the Pump (Inches)</th>
<th>Hose Size I.D. (Inches)</th>
<th>Rated Flow Lbs./Min. Ideal Conditions(^1)</th>
<th>Approx. Flow Lbs./Min. With Equalizer Line(^2)</th>
<th>Approx. Flow Lbs./Min. Without Equalizer Line(^3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.22</td>
<td>3/8</td>
<td>38</td>
<td>20</td>
<td>10 - 15</td>
</tr>
<tr>
<td>0.22</td>
<td>1/2</td>
<td>38</td>
<td>24</td>
<td>12 - 18</td>
</tr>
<tr>
<td>0.62</td>
<td>5/8</td>
<td>130</td>
<td>40</td>
<td>20 - 30</td>
</tr>
<tr>
<td>0.75</td>
<td>3/4</td>
<td>130</td>
<td>90</td>
<td>45 - 60</td>
</tr>
</tbody>
</table>

\(^1\) 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. 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.

Refrigerants can be void of lubricants and 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 an 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.
Vacuum Pumps

GLOBESAVER™

- Dual intake connections
- Two stage design: second stage starts pump at a lower pressure to pull a deeper ultimate vacuum
- Ergonomic sure-grip handle
- High vacuum rating
- Gas ballast feature: helps keep the pump oil clean by reducing condensation of moisture

<table>
<thead>
<tr>
<th>Vacuum Pump</th>
<th>GVP3</th>
<th>GVP6</th>
<th>GVP12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Free Air Displacement (CFM)</td>
<td>3</td>
<td>6</td>
<td>12</td>
</tr>
<tr>
<td>Stages</td>
<td>2 stage rotary vanes</td>
<td>2 stage rotary vanes</td>
<td>2 stage rotary vanes</td>
</tr>
<tr>
<td>Field Blankoff</td>
<td>15 microns</td>
<td>15 microns</td>
<td>15 microns</td>
</tr>
<tr>
<td>Intake Male Flare (In.)</td>
<td>1/4 MFL x 3/8 MFL</td>
<td>1/4 MFL x 3/8 MFL</td>
<td>3/8 MFL x 1/2 MFL</td>
</tr>
<tr>
<td>Horsepower</td>
<td>1/4</td>
<td>1/2</td>
<td>1/2</td>
</tr>
<tr>
<td>RPM</td>
<td>1440 @ 50 Hz, 1730 @ 60 Hz</td>
<td>1440 @ 50 Hz, 1730 @ 60 Hz</td>
<td>115/220</td>
</tr>
<tr>
<td>Voltage</td>
<td>115</td>
<td>115/220</td>
<td>115/220</td>
</tr>
<tr>
<td>Oil Capacity</td>
<td>14.0 Oz.</td>
<td>34 Oz.</td>
<td>34 Oz.</td>
</tr>
<tr>
<td>Length (In.)</td>
<td>14</td>
<td>16.93</td>
<td>18.89</td>
</tr>
<tr>
<td>Width (In.)</td>
<td>5.71</td>
<td>5.71</td>
<td>5.71</td>
</tr>
<tr>
<td>Height (In.)</td>
<td>10.5</td>
<td>10.43</td>
<td>11.81</td>
</tr>
<tr>
<td>Unit Weight (Lbs.)</td>
<td>23</td>
<td>31</td>
<td>39</td>
</tr>
<tr>
<td>Shipping Weight (Lbs.)</td>
<td>27</td>
<td>38</td>
<td>49</td>
</tr>
</tbody>
</table>

TEZ8

- Three intake connections
- 5-second oil change™
- High speed turbine fan keeps pump and oil cool
- Exhaust system vents moisture remotely (standard garden hose connection) without breaking vacuum
- Wide, low stance prevents accidental tipping
- TEZOM cartridges are available in the following quantities:

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TZM1PK</td>
<td>TEZ8 Oil Cartridge (1 Cartridge)</td>
</tr>
<tr>
<td>TZM3PK</td>
<td>TEZ8 Oil Cartridge (3 Cartridges/Pack)</td>
</tr>
<tr>
<td>TZMCRT</td>
<td>TEZ8 Oil Cartridge (24 Cartridges/Carton)</td>
</tr>
</tbody>
</table>

TEZ8 is Manufactured by

18
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

<table>
<thead>
<tr>
<th>Model</th>
<th>Nominal Cap (Lbs.)</th>
<th>Water Cap (Lbs.)</th>
<th>PSI</th>
<th>Max. Recovery Cap @ 80% (Lbs.)</th>
<th>Valves</th>
<th>Weight (Lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NC30</td>
<td>30</td>
<td>26.2</td>
<td>400</td>
<td>24</td>
<td>One 2 Port</td>
<td>16</td>
</tr>
<tr>
<td>NC30U</td>
<td>30</td>
<td>26.2</td>
<td>400</td>
<td>24</td>
<td>One 2 Port</td>
<td>17</td>
</tr>
<tr>
<td>NC50</td>
<td>50</td>
<td>47.7</td>
<td>400</td>
<td>40</td>
<td>One 2 Port</td>
<td>28</td>
</tr>
<tr>
<td>NC50U</td>
<td>50</td>
<td>47.7</td>
<td>400</td>
<td>40</td>
<td>One 2 Port</td>
<td>29</td>
</tr>
<tr>
<td>NC100</td>
<td>125</td>
<td>122</td>
<td>300</td>
<td>100</td>
<td>One 2 Port</td>
<td>51</td>
</tr>
<tr>
<td>NC100U</td>
<td>125</td>
<td>122</td>
<td>300</td>
<td>100</td>
<td>One 2 Port</td>
<td>52</td>
</tr>
<tr>
<td>NC240</td>
<td>240</td>
<td>240</td>
<td>250</td>
<td>192</td>
<td>Two 1 Port</td>
<td>80</td>
</tr>
<tr>
<td>NC240U</td>
<td>240</td>
<td>240</td>
<td>250</td>
<td>192</td>
<td>Two 1 Port</td>
<td>81</td>
</tr>
<tr>
<td>NC1000</td>
<td>1000</td>
<td>1000</td>
<td>260</td>
<td>800</td>
<td>Two 1 Port</td>
<td>391</td>
</tr>
</tbody>
</table>

1With float switch  2With float gauge  3Available in 400 Lb. pressure

### R11 LARGE RECOVERY CYLINDERS

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-condensable purge tap, float switch.

<table>
<thead>
<tr>
<th>Model</th>
<th>Nominal Cap (Lbs.)</th>
<th>Water Cap (Lbs.)</th>
<th>PSI</th>
<th>Max. Recovery Cap @ 80% (Lbs.)</th>
<th>Valves</th>
<th>Weight (Lbs.)</th>
<th>Use With</th>
</tr>
</thead>
<tbody>
<tr>
<td>N250T</td>
<td>250</td>
<td>250</td>
<td>165</td>
<td>200</td>
<td>Two 1 Port</td>
<td>107</td>
<td>VR11</td>
</tr>
<tr>
<td>N665T</td>
<td>665</td>
<td>665</td>
<td>200</td>
<td>532</td>
<td>Two 1 Port</td>
<td>265</td>
<td>VR11</td>
</tr>
</tbody>
</table>

### VERY HIGH PRESSURE RECOVERY CYLINDERS

<table>
<thead>
<tr>
<th>Model</th>
<th>Nominal Cap (Lbs.)</th>
<th>Water Cap (Lbs.)</th>
<th>Max. Recovery Cap @ 80% (Lbs.)</th>
<th>Valves</th>
<th>Weight (Lbs.)</th>
<th>Use With</th>
</tr>
</thead>
<tbody>
<tr>
<td>NC23</td>
<td>28</td>
<td>23.8</td>
<td>23</td>
<td>One 1 Port</td>
<td>43</td>
<td>R13, R23, R503 — LP13, VR13</td>
</tr>
<tr>
<td>NC80</td>
<td>106</td>
<td>89</td>
<td>84</td>
<td>One 1 Port</td>
<td>113</td>
<td>R13, R23, R503 — LP13, VR13</td>
</tr>
</tbody>
</table>
### TANK ALARM

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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Power</th>
<th>Dimensions L x W x H (In.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA1</td>
<td>120 Volt, 15 Amps, 60 Hz</td>
<td>1.74 x 2.33 x 4.33</td>
</tr>
</tbody>
</table>

### HOSE KIT

FOR USE WITH R11 & R113

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Unit Weight (Lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HK11</td>
<td>3/4&quot; Hoses (3), with accessories for use with LP1 1 20</td>
<td>20</td>
</tr>
</tbody>
</table>

### SIGHT GLASS

Flow indication and moisture sensing

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Connection (In.)</th>
<th>Length (In.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SG14</td>
<td>1/4 MFL x 1/4 FFL</td>
<td>3.06</td>
</tr>
<tr>
<td>SG38</td>
<td>3/8 MFL x 3/8 FFL</td>
<td>3.25</td>
</tr>
</tbody>
</table>

### TANK ADAPTERS

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NC50FLOAT</td>
<td>Replacement float mechanism for positive shut-off cylinders (30 lb, 50 lb)</td>
</tr>
<tr>
<td>NULVTANK P</td>
<td>4 Pin male amp x 3 pin female Brad Harrison connectors. Adapts NRP 30 Lb and 50 Lb tanks to an OZ, Thermal, Reklame, Aes-Ntron and CPS unit cords.</td>
</tr>
<tr>
<td>NOZTANK P</td>
<td>4 Pin female amp x 3 pin male Brad Harrison connectors. Adapts an OZ, Thermal, Reklame, Aes-Ntron and CPS</td>
</tr>
<tr>
<td>NULVP</td>
<td>Completes wiring for an 80% fill protective circuit. Compatible with Robinair, Sercon, Trane, Katy, CFC-TEK, Dupont and other manufacturers’ units</td>
</tr>
</tbody>
</table>

### FILTER/DRIER

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Connection (In.)</th>
<th>Length (In.)</th>
<th>Master Carton</th>
</tr>
</thead>
<tbody>
<tr>
<td>052</td>
<td>1/4 MFL x 1/4 FFL</td>
<td>4.75</td>
<td>25</td>
</tr>
<tr>
<td>053</td>
<td>3/8 MFL x 3/8 FFL</td>
<td>5.19</td>
<td>25</td>
</tr>
</tbody>
</table>

### FILTER-DRIER CORE

Fits 48 cu. in. filter shells

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Use With</th>
</tr>
</thead>
<tbody>
<tr>
<td>RH-48</td>
<td>High Capacity Refrigerant Recycling Filter Drier Core</td>
<td>RLV700, RAD700</td>
</tr>
</tbody>
</table>