Tools & Instruments

Totaline® P920-RECOVERY115
Oil-Less Refrigerant Recovery Unit

When dependability and durability is critical, choose the Totaline P920-RECOVERY115 Oil-Less Refrigerant Recovery Unit.

- With our patented 3/4hp Platinum Plus Compressor, the Totaline P920-RECOVERY115 is capable of recovering direct liquid. A larger 1-1/8” piston allows for movement of greater volumes of refrigerant. This feature saves your customer time when servicing a system.
- The larger piston also provides the Totaline Refrigerant Recovery Unit increased durability and longevity in the field.
- The simple operation consists of one-line-in, one-line-out technology. Easily self evacuate the lines to ensure air is not entering the recovery cylinder, then simply switch the valves to recover and go about your work. When recovery is done, evacuate the unit with a switch of the valve to ensure refrigerants are not cross contaminated.
- The Totaline Refrigerant Recovery Unit is designed with the technician in mind. The unit is compact with a low center of gravity. No worrying about this unit sliding around in the truck.
- With our compact design comes a lighter unit with extra ease of mobility. Weighing in at only 34 lbs, the unit can easily be carried up ladders or stairs to any jobsite.
- Totaline incorporates the latest technology in injection mold design with internal channels increasing airflow across the compressor head and motor.
- Field repairable with only one kit.
- Assembled in the U.S.A.

Ordering Information:
Part No. Description
P920-RECOVERY115 Oil-Less Refrigerant Recovery Unit

Accessories:
KIT006 Low Pressure Cut-Out Kit for 115v and 230v models.
KIT007 Tank Full Kit for 115v Models.

Replacement Parts:
C-032-F 3cu. Replacement Filter Drier
RGA502 Replacement Low Pressure Gauge
RGA802 Replacement High Pressure Gauge
CPK076 Compressor O-Ring Rebuild Kit
CPK077 Compressor Piston Rebuild Kit
CPK078 Compressor Head Rebuild Kit
RSC019 Shaft Seal - Compr. to Motor
CPK079 Complete Compressor Kit -
Contains all above except replacement gauges and filter drier.

Recovery Rates - Per ARI 740 Standard

<table>
<thead>
<tr>
<th>P920-RECOVERY115</th>
<th>R22</th>
<th>R410a</th>
<th>R134a</th>
<th>R407c</th>
</tr>
</thead>
<tbody>
<tr>
<td>Push/Pull Liquid</td>
<td>13.60lbs/min.</td>
<td>13.99lbs/min.</td>
<td>10.58lbs/min.</td>
<td>13.75lbs/min.</td>
</tr>
<tr>
<td>Direct Liquid</td>
<td>4.08lbs/min.</td>
<td>4.98lbs/min.</td>
<td>3.79lbs/min.</td>
<td>5.02lbs/min.</td>
</tr>
<tr>
<td>Direct Vapor</td>
<td>35lbs/min.</td>
<td>.23lbs/min.</td>
<td>.23lbs/min.</td>
<td>.31lbs/min.</td>
</tr>
</tbody>
</table>

Power requirements:
- 115 Model: 115VAC, 50/60 Hz, 1-phase, MIN CKT AMP 15, MAX Dimensions (LxWxH): 16-in x 10-in x 13-in
- Weight: 34-lbs/15.4-kg (shipping 38-lbs/17.2-kg)
- Safety limit switches: High pressure = 550-psi
- Low pressure = 10-in Hg (opt)
The HVAC/R professional’s best friend, Totaline Vacuum Pumps are affordable, reliable, built to last and available in three sizes: 1.8 CFM, 4 CFM and 7 CFM.

- High ultimate vacuum: 3 x 10⁻¹Pa (25 microns)
- Quick flow rate
- Portable, smaller and lighter in design
- Stable equipped with thermal protector
- Reliable force feed lubrication system
- Power plug easy connection with various plugs
- One year limited warranty

### Ordering Information:

**Replacement Parts:**
- C-032-F . . . . . . . . . . . . . 3cu. Replacement Filter Drier
- RGA502 . . . . . . . . . . . . Replacement Low Pressure Gauge
- RGA802 . . . . . . . . . . . . Replacement High Pressure Gauge
- CPK076 . . . . . . . . . . . . Compressor O-Ring Rebuild Kit
- CPK077 . . . . . . . . . . . . Compressor Piston Rebuild Kit
- CPK078 . . . . . . . . . . . . Compressor Head Rebuild Kit
- RSC019 . . . . . . . . . . . . Shaft Seal - Compr. to Motor
- CPK079 . . . . . . . . . . . . Complete Compressor Kit - Contains all above except replacement gauges and filter drier.
Tools & Instruments

REFRIGERANT RECOVERY

• Enjoy faster more reliable recovery — larger 3/4-hp oil free compressor easily services larger cooling systems.
• Finish sooner — 30% faster recovery rates versus our previous Totalvac design.
• Now has covers

More Durable
• Don’t “baby sit” the liquid recovery process — special ball discharge valve prevents slugging and premature compressor failure.
• Enjoy longer service life — switch halts recovery when A/C system is under a 10” vacuum to prevent excess wear to compressor components.
• Worry less — top handle shields valves, ports and gauges for better protection. Rugged double-walled plastic housing absorbs shock and abrasion.

Easier to Operate
• Simplify recovery — two hand valves perform self-evacuation and recovery in fewer steps.
• Start recovery then do other things — automatically halts vapor recovery when process is complete.
• Comfortably tote the compact 30-lb unit to your jobsite by its included shoulder strap.

Easy to Field Service
• Prevent downtime — compressor may be overhauled in the field with simple tools and readily available spare parts in about 30 minutes.

SPECIFICATIONS
Vapor Recovery 0.31-lb/min
Recovery Rates (R-22) Liquid Recovery 5.04-lb/min
Push/Pull 14.50-lb/min
Dimensions (L x W x H) 13.5” x 9” x 17”
Weight 30-lb 38-lb Shipping
Compressor 0.75-hp oil free
Power Supply: Unit is equipped with a flanged inlet power receptacle. Overseas models included an adapter
for different power cords. Recommended maximum length on 14 gauge power cord is 20 ft.
Included with Purchase
• Shoulder strap
• Now optional see below
• One 3-cubic inch in-line filter

Accessories
12RA680106.........................30 lb. Cylinder (Puron)
12RA680105.........................50 lb. Cylinder (Puron)
12RA680107.........................50 lb. Cylinder with liquid switch (Puron)

Optional Float Accessory Kit
KIT002 115V for P706.0001-L
KIT003 220V for P706.0002-L
Includes:
6 ft. float cable Full indicator light
Float By-pass switch Hard wiring instructions

<table>
<thead>
<tr>
<th>PART NO</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>P706-0001-L</td>
<td>with low pressure switch, 115/60/1</td>
</tr>
<tr>
<td>P706-0002-L</td>
<td>with low pressure switch, 220/50/1</td>
</tr>
</tbody>
</table>
Tools & Instruments

REFRIGERANT RECOVERY
EVAC COMMERCIAL™ OPEN DRIVE HIGH PRESSURE RECOVERY SYSTEM

Shaves hours off recovery times on chillers and large A/C or refrigeration systems.

FASTER SPEED
- Recovers 325-lb/min liquid and 6-lb/min vapor (R-22).

HIGH DURABILITY
- Rugged 3-Hp open drive compressor provides years of reliable service, even on refrigerants heavily contaminated with oil, air, moisture, and acids.

SERVICES MOST HP REFRIGERANTS
- R-12, R-22, R-114, R-134a, R-404, R-407, R-500, R-502, R-507, MP39 and other high pressure refrigerants or blends (does not service very high pressure refrigerants such as R-13 and R-23).

EASY OPERATIONS
- Purging lines and switching from liquid to vapor recovery modes simply involves turning three 3-way hand valves and rerouting a hose.

SPECIFICATIONS
- Liquid Push/Pull (R-22) 325 lb/min
- Vapor Rate (R-22) 6.0 lb/min
- Final Vacuum 15-in. Hg
- Motor 3 Hp
- Power: Controls 103-127 VAC, 50/60 Hz, 1p, 15A
- Connections 3/4" flare
- Dimensions (L x W x H):
  Electromechanical 32 in. x 29 in. x 45 in. (114 cm)
  Weight Electromechanical: 310 lb
- Shipping: 375lb.

Included with Purchase:
- 3 Ph units have separate 115V Controls Power cord.
- Two cords total.
- Two each 3/4-5/8" and 5/8-1/2" reducing fittings
- One 3/4" x 20 ft hose
- Two 3/4" x 10 ft hoses

Optional Accessories:
- Spare filter driers—48cu.in filter drier cores
- Compressor fluid, 1 gal
- 100, 250 and 1,000 lb tanks
- with 3/4" ports and dip tubes
- Custom sized ASME tanks

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>PART NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spare filter driers—48cu.in filter drier cores</td>
<td>FD-048-CR</td>
</tr>
<tr>
<td>Compressor fluid, 1 gal</td>
<td>OIL-POE-1G</td>
</tr>
<tr>
<td>100, 250 and 1,000 lb tanks</td>
<td>---</td>
</tr>
<tr>
<td>with 3/4&quot; ports and dip tubes</td>
<td>---</td>
</tr>
<tr>
<td>Custom sized ASME tanks</td>
<td>---</td>
</tr>
</tbody>
</table>
LOVAC outpaces other recover systems, especially when refrigerant is contaminated with moisture, oil, or noncondensibles

**FASTER SPEED**
- Recovers R-11 at 100-lb/min liquid and 0.66-lb/min vapor.

**NONCONDENSIBLES? NOT AN ISSUE!**
- LOVAC’s compressor works against very high head pressures and the water cooled condenser and subcools recovered refrigerant to minimize the effects of noncondensibles.

**HIGH DURABILITY**
- Rugged 2.0 Hp open drive compressor stands up to difficult recovery conditions better than vacuum pumps.

**REFRIGERANT COMPATIBILITY**
- Services all low pressure refrigerants. Switching between R-11, R-123, and R-113 simply involves evacuating the recovery unit, changing fluid and replacing two external filters.

**EASY OPERATION**
- Purging lines and switching from liquid to vapor recovery modes simply involves turning three valves and rerouting hoses.

**SPECIFICATIONS**

**Recovery Rates (R-11)**
- Open Drive Model
  - Liquid = 100-b/min
  - Vapor = 0.66-lb/min
- Final Vacuum: 29-in Hg
- Power: Recovery Unit
  - 103-127VAC, 1φ, 50/60 Hz, 1.5-hp, 10A
- Weight
  - Open Drive Model: 160-lbs
  - Shipping: 210-lbs
- Connections: 3/4” male flare fittings with ball valves
- Warranty 1-year Parts
- Dimensions (L x W x H)
  - Electromechanical: 23” x 27” x 34”

**Included with Purchase:**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>PART NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>One power cord 50 ft.</td>
<td>---</td>
</tr>
<tr>
<td>Two each 3/4-5/8” and 5/8-1/2” reducing fittings</td>
<td>---</td>
</tr>
<tr>
<td>-Two 48cu.in filter drier cores</td>
<td>FD-048-CR</td>
</tr>
<tr>
<td>-One 3/4” x 20 ft hose</td>
<td>075-020-HP-FB</td>
</tr>
<tr>
<td>-Two 3/4” x 10 ft hoses</td>
<td>075-010-HP-FB</td>
</tr>
</tbody>
</table>

**Optional Accessories:**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>PART NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>- 48-cu.in filter drier cores</td>
<td>FD-048-CR</td>
</tr>
<tr>
<td>Compressor fluid, 1 gal</td>
<td>OIL-POE-1G</td>
</tr>
<tr>
<td>440 and 880 lb recovery tanks with 3/4” ports</td>
<td>---</td>
</tr>
<tr>
<td>Tank float safety cables and adapters</td>
<td>---</td>
</tr>
</tbody>
</table>
## REFRIGERANT RECOVERY

**HANDIVAC™ HIGH CAPACITY OIL-LESS RECOVERY SYSTEM**

Extra condensing capacity and higher horsepower for faster refrigerant transfer rates and longer component life.

**High ARI Certified Recovery Rates (R-22)**

### SPEED ENHANCING FEATURES

- Dual 0.75 hp oil-less compressors double recovery rates for servicing commercial cooling units.
- Unit self-evacuates prior to performing recovery.
- Compressor pulls directly on liquid with safeties to protect against slugging.

### LESS MAINTENANCE

- Oil-free compressor lessens maintenance hassles. Easily switches between R-12, R-22, R-134a, R-500, R-502, R-409, R-410a, MP39 and other high pressure refrigerants and blends.
- Dual fans provide abundant air flow to properly cool the compressor motor & head as well as other internal components for longer service life.

### SAFETY FEATURES

- High head pressure shut off at 425-psi.
- Low pressure shut off at 15-in Hg.
- Operational 80% tank full float valve shut off.

**Push/Pull* direct liquid vapor**

**RTO-500**

- Push/pull rates using 3/8" hose.
- 25-lb/min
- 7.8-lb/min
- 0.62-lb/min
- 15° Hg
- Push/pull rates using 3/8" lines.

### SPECIFICATIONS

| Push/Pull (R-22)* | 25-lb/min |
| Direct Liquid (R-22) | 7.8-lb/min |
| Vapor (R-22) | 0.62-lb/min |
| Weight | 63-lbs (28.6 kg) |
| Motor 1.5 Hp | |
| Connections 3/8" Flare | |
| Dimensions (L x W x H) | 18" x 10" x 16" |
| Float Connection | 3-pin BH |
| Low-Pressure Switch | 15° Hg |

*Push/pull rates using 3/8" lines.

### Optional Accessories:

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>PART NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8&quot; male flare x 3/8&quot; female flare</td>
<td>RFD154</td>
</tr>
<tr>
<td>6-ft float cable and 3 pin (BH) connector</td>
<td>FVC-006</td>
</tr>
</tbody>
</table>

### PART NO. NOMENCLATURE

- **RTO** = Twin Oil-Less compressors
- **500** = HandVac System
- **XXX** = Float Cable Connection
- **F** = High Capacity Oil-Less recovery system
MITYVAC™ LIGHTWEIGHT OPEN DRIVE RECOVERY SYSTEM

Offers the additional speed and durability of an open drive compressor in a lightweight package.

ACCELERATES RECOVERY PROCEDURES TO SAVE LABOR AND REDUCE COOLING SYSTEM DOWNTIME

- 2.0-hp compressor moves refrigerant through a 1/2" port and valving system at sizzling rates of 55 lb/min liquid and 1.56-lb/min vapor (R-22).
- High capacity air cooled condenser with 700-cfm fan maintains recovery rates at high ambient temperatures.

RUGGED DESIGN OFFERS LONGER SERVICE LIFE AND GREATER FLEXIBILITY

- Open drive compressor is virtually impervious to the acids and contaminants that burnout hermetic or oil-less compressors.
- Services R-12, R-22, R-500, R-502, R-134a, MP39, R-409a, R-507 and other high pressure refrigerants and blends. Can be reprogrammed to service newly introduced refrigerants.

SIMPLE OPERATING PROCEDURES

- Purging lines and switching from liquid to vapor recovery modes simply involves turning three 3-way hand valves — no switching hoses is necessary.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Liquid Push/Pull (R-22): 55 lb/min</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapor Rate (R-22): 1.56 lb/min</td>
</tr>
<tr>
<td>Final Vacuum: 15 in. Hg</td>
</tr>
<tr>
<td>Weight: 145 lbs. (180 shipping)</td>
</tr>
<tr>
<td>Motor: 2.0 Hp</td>
</tr>
<tr>
<td>Connections: 1/2&quot; Flare</td>
</tr>
<tr>
<td>Dimensions: (L x W x H) 18&quot; x 14&quot; x 19&quot;</td>
</tr>
</tbody>
</table>

(46cm x 35cm x 48cm)

Included with Purchase

(HOSES NOT INCLUDED):

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>PART NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 ft. power cord</td>
<td>---</td>
</tr>
<tr>
<td>Two in-line 30cu.in filter driers</td>
<td>FD-030-50</td>
</tr>
<tr>
<td>Optional Accessories:</td>
<td></td>
</tr>
<tr>
<td>DESCRIPTION</td>
<td>PART NO.</td>
</tr>
<tr>
<td>Recovery hoses - four required:</td>
<td></td>
</tr>
<tr>
<td>1/2&quot; x 10 ft. hoses</td>
<td>050-010-HP-FB</td>
</tr>
<tr>
<td>1/2&quot; x 20 ft. hoses</td>
<td>050-020-HP-FB</td>
</tr>
<tr>
<td>Spare filter driers</td>
<td>FD-030-50</td>
</tr>
<tr>
<td>Recovery tanks (float valves optional)</td>
<td></td>
</tr>
<tr>
<td>-1000-lb capacity</td>
<td>CYL-0250</td>
</tr>
<tr>
<td>Tank float safety cables and adapters</td>
<td>CYL-1000</td>
</tr>
</tbody>
</table>

PART NO. NOMENCLATURE

MityVac Recovery Unit

E = Electro-mechanical Controls

115 = 100-127 VAC, 50/60 Hz, 1 Ph, 2.0 Hp, 20A
240 = 220-240 VAC, 50/60 Hz, 1 Ph, 2.0 Hp, 15A