



PUMPWORKS, INC.

LIQUID AND GAS TRANSFER TECHNOLOGY

A division of Global Liquid & Gas Transfer Technology

2277-49th Avenue North

Minneapolis, MN USA 55430

Tel 612-521-9331 800-431-4408 Fax 612-521-9397

www.pumpworksinc.com

REFRIGERATION CATALOG & tank DOT Hydrotest recertification



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To order, fill out centerfold order form

To send cylinders for DOT Hydro-Testing, fill out centerfold RMA form

**Mail to: PumpWorks, Inc.
2277 49th Avenue North
Minneapolis, MN 55430**

Fax to: 612-521-9397

Call: 1-800-431-4408

Distributors please call to set up an account for special pricing



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PumpWorks brings Linear Reciprocating Piston technology to all areas of the pump and compressor industry. Although the first successful product brought to market focused on fluid metering and transfer, Dual Solenoid Technology is adaptable to air and liquid compression and vacuum applications as well.

In our effort to continually improve and expand our products, we have developed a line of refrigeration tools and accessories which you will find detailed in this catalog.

For further information on any of these products, please visit our website at www.pumpworksinc.com or call 1-800-431-4408.

Mongoose THRUSTER™

Small Appliance Refrigerant Recovery System

System Advantages

- EPA APPROVED RECOVERY SYSTEM
- LIGHTWEIGHT – LESS THAN 11 LBS
- PUMPS BOTH LIQUID AND VAPOR
- FOR USE WITH ALL CATEGORY 3 REFRIGERANTS
- HERMETICALLY SEALED
- NO OIL REQUIRED, CAN RUN DRY
- ABLE TO PULL A VACUUM to 27"hg
- IDEAL FOR RECOVERY ON SYSTEMS WITH CHARGES OF 22 OZ AND LESS
- HANDLES LARGER LIQUID VOLUMES WITH USE OF A VAPOR BYPASS LINE
- SIMPLE, SAFE & FAST TO USE
- LOWER OPERATIONAL & LABOR COST
- RELIABLE & VERY DURABLE
- LOW MAINTENANCE & RENEWABLE
- START / STOP CAPABILITIES
- PUMP & MOTOR IN ONE PACKAGE
- FAN COOLED
- THERMAL OVERLOAD PROTECTION



Premium Repair Tool for Refrigeration Engineers

New technology in refrigerant transfer:

With only ONE moving part and two check valves, the magnetically driven linear piston pump is the lightest and the simplest electrically driven refrigerant transfer pump available. The presence of compressor oil or water in the refrigerant will not adversely affect the unit. Also, the pump is self-priming and guaranteed leak-proof.



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Patent #5,085,563

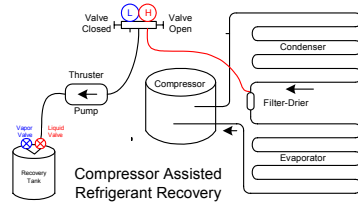
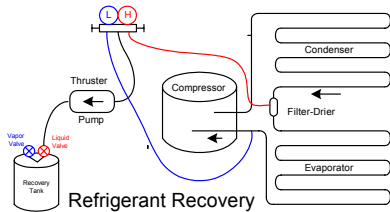
Performance Specifications

- Direct Liquid Transfer Pumping Rate is 1.5 lbs / min continuous duty
- Compatible with all refrigerants
- Vapor recovery rate: 0.1 lbs / min
- Liquid refrigerant is moved at 1.6 lbs / min
- Push/Pull refrigerant transfer is 5.5 lbs / min
- Dead Head Vapor 250 PSI, Liquid 50 PSI



Product Specifications

- Size: Width- 8” Height- 9” Depth- 8½”
- Weight: 11 lbs
- Inlet Outlet Fitting Size: 1/4” M Flair Fitting
- Power: 110 VAC, 60HZ, 150 Watts
- Float Switch Interlock Cable Length: 6’



Renewing of Pump: Elastomers are replaceable by PumpWorks, Inc. Call 1-800-431-4408 for RMA #

Limited Warranty—
Mongoose Thruster™ Liquid Refrigerant transfer pump is warranted against defects in workmanship and materials under normal use for one year.
PumpWorks, Inc. assumes no liability on the actual use of this equipment. Components subject to normal wear and tear, such as elastomeric components, are specifically excluded from this warranty.

LX THRUSTER™

Liquid Refrigerant Transfer

Pump Advantages

- LIGHTWEIGHT – 8 LBS
- RELIABLE AND VERY DURABLE
- SIMPLE, SAFE & FAST TO USE
- UL LISTED PUMP
- LOW MAINTENANCE & RENEWABLE
- HIGH LIQUID FLOW RATE
- START / STOP CAPABILITIES
- LIQUID PUMP IS VAPOR TOLERANT
- FOR USE WITH ANY REFRIGERANT
- PUMP & MOTOR IN ONE PACKAGE
- HERMETICALLY SEALED
- NO OIL REQUIRED, CAN RUN DRY
- LOWER OPERATIONAL & LABOR COST
- FLOAT SWITCH INTERLOCK / JUMPER
- ABLE TO PULL 16" Hg VACUUM



Premium Repair Tool for Refrigeration Service Technicians/Engineers

New technology in refrigerant transfer:

With only ONE moving part and two check valves, the magnetically driven linear piston pump is the lightest and the simplest electrically driven refrigerant transfer pump available. The presence of compressor oil or water in the refrigerant will not adversely affect the unit. Also, the pump is self-priming and guaranteed leak-proof.



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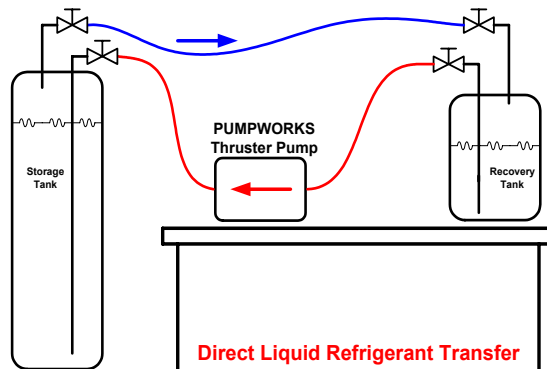
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Patent #5,085,563

Performance Specifications

- Direct Liquid Transfer Pumping Rate is 2.5 lbs / min
Continuous Duty with vapor bypass
- Compatible with all refrigerants
- Vapor push/pull 4 lbs/min (intermittent duty)

Product Specifications

- **Size:** Width- 8" Height- 9" Depth- 8½"
- **Weight:** 8 lbs
- **Inlet Outlet Fitting Size:** 3/8" FNPT or 1/4" M Flare Fitting
- **Power:** 110 Vac, 60Hz, 130 Watts
- **Float Switch Interlock Cable Length:** 6'



Renewing of Pump: Elastomers are replaceable by PumpWorks, Inc. Call 1-800-431-4408 for RMA #

Limited Warranty—

LX Thruster™ Liquid Refrigerant transfer pump is warranted against defects in workmanship and materials under normal use for one year. PumpWorks, Inc. assumes no liability on the actual use of this equipment. Components subject to normal wear and tear, such as elastomeric components, are specifically excluded from this warranty.

PT GRIPPER™

Process Tube Temporary Attachment Tool

The PT Gripper is the fastest, easiest and simplest means to connect to tubing for evacuating, flushing, recharging and pressure testing. This simple design assures a positive seal between the tubing and the hose connection. Temporary connections are a snap with one handed motion eliminating the need for soldering, brazing, or flaring a fitting, saving time and money.



Warning:

Only a certified service technician should use this tool on a refrigeration system.

Always wear PROPER SAFETY EQUIPMENT such as but NOT limited to GOGGLES when working with refrigerants.

Contact with refrigerants may cause injury.

Always keep connections and hoses pointed away from you and others.

If the system is under pressure, depressurize it using the manufacturer's instructions.

- 1. Be sure that the PT Gripper and tube are free from oil, scratches, debris and moisture.**
- 2. Cut tube off straight, making sure it is long enough to bottom out when installed into PT Gripper.**
- 3. Slide the appropriate size PT Gripper over tube until it bottoms out. Failure to do so may cause tool to leak or fall off during use.**
- 4. Adjust knurl nut on PT Gripper for proper tension so that the tool is firmly attached to tube.**
- 5. Connect the (charging, flushing or drain) hose to the threads on the top of the PT Gripper.**
- 6. If charging :**
 - Use crimping tool (not Included) to pinch off the tubing after charging is complete; close supply valve prior to removing PT Gripper; then solder the end of the process tube closed.**
- If flushing:**
 - With one or two PT Grippers, ensure that all of the pressure in the system is evacuated and the supply and receiver tank valves are closed prior to removing PT Gripper**
- 7. When PT Gripper is not in use, relax the compression on it by turning the knurl nut CCW. This prevents deformation of the neoprene elastomer which causes difficulty when connecting to the largest tube.**



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PT Gripper: Assorted Views & Uses

PT Gripper



Connect with low pressure plastic or Teflon tubing and refrigeration hose



Connect aluminum, copper or stainless steel tube and refrigeration hose



Connect with low pressure braided hose and refrigeration hose



PT Gripper and Crimping Tool

Performance Specifications

- Compatible with all refrigerants
- Liquid or vapor compatible
- Positive pressure or vacuum

Product Specifications

| <u>NAME</u> | <u>PW PART NUMBER</u> | <u>TUBE DIAMETER</u> |
|-----------------|-----------------------|----------------------|
| Small Gripper | SPTG | 1/8" to 1/4" |
| Medium Gripper | MPTG | 1/4" to 3/8" |
| Large Gripper | LPTG | 3/8" to 5/8" |
| X-Large Gripper | XLPTG | 5/8" to 1" |

To order additional tools or replacement parts, contact:
PumpWorks, Inc. 1-800-431-4408

Limited Warranty—

The PT Gripper™ Attachment Tool is warranted against defects in workmanship and materials under normal use for one year. PumpWorks, Inc. assumes no liability on the actual use of this equipment. Components subject to normal wear and tear, such as elastomeric components, are specifically excluded from this warranty.

REFRIGERANT CYLINDERS

Refrigerant Recovery/Transfer Storage Solution

Tank Advantages

- EASY TO HANDLE COLLAR DESIGN
- TWO-TONED COLORING
- RE-USABLE
- EASY STORAGE AVAILABLE FROM *PUMPWORKS, INC.* RACKING SYSTEMS
- 15# CYLINDER AVAILABLE WITH FLOAT SWITCH



Storage Solution for Refrigerant Recovery/Recycling:

Used for both the recovery and recycling of virtually any type of refrigerant, these cylinders from *PumpWorks, Inc.* are the ultimate in ease and safety.

Premium Storage Solution for Refrigeration Service Technicians/Engineers



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Performance Specifications

- 3/4" NPT opening that will accept 80% fill shut-off device
- 1/4" opening to accept air purge valve
- Powder-coated cylinder gives a high gloss, durable finish

Product Specifications

- LiquidVapor "Y" valve
- Available in 15#, 30# and 50# capacities



***For prices and availability please contact:
PumpWorks, Inc.: 1-800-431-4408***

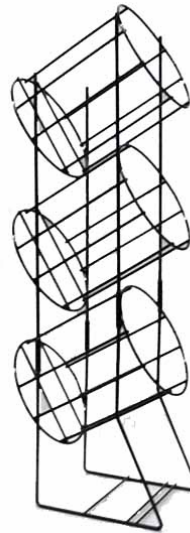
***Limited Warranty—
Your CYLINDER is warranted against defects in workmanship and materials
under normal use by its manufacturer. PumpWorks, Inc. assumes no liability
on the actual use of this equipment.***

CYLINDER RACKS

Refrigerant Recovery/Transfer Storage Solution

System Advantages

- TOUGH, DURABLE CONSTRUCTION
- SPACE-SAVING DESIGN
- VARIETY OF SIZES
- COMPATIBLE WITH 15# AND 30# CYLINDERS, INCLUDING VIRGIN CYLINDERS
- IDEAL FOR VEHICLE TANK STORAGE OR RACKING SYSTEMS
- QUICK RELEASE SAFETY STRAP TO SECURE TANKS



The Perfect Storage Solution:

PumpWorks, Inc. offers you a safe, sturdy line of racks for storage and transfer cylinders used in refrigerant recovery. These racks are the perfect solution to your storage needs!

Premium Storage Solution for Refrigeration Service Technicians/Engineers



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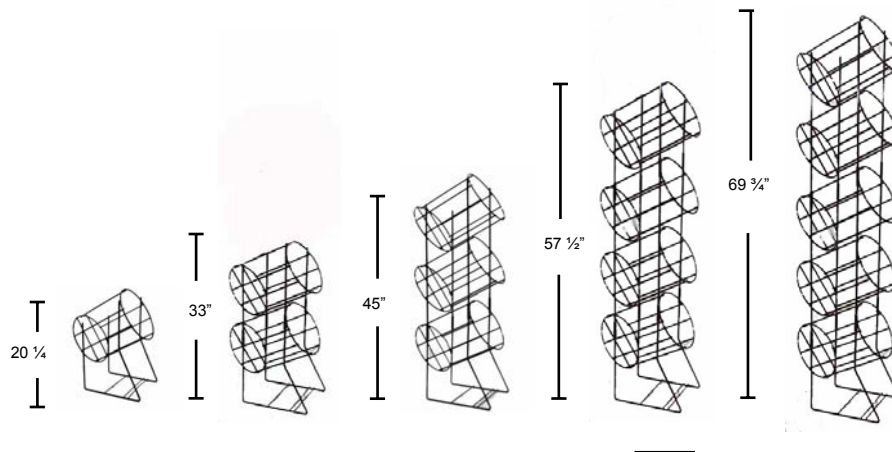
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Performance Specifications

- Vehicular mounting to bulkhead or racking system
- Stationary mounting on backside to wall
- Holds both 15# and 30# cylinders, including virgin cylinders

Product Specifications

- All 15-30# Racks are 11" wide and 16" deep
- All 50# Cylinder racks are 14" wide & 17 ¾" deep

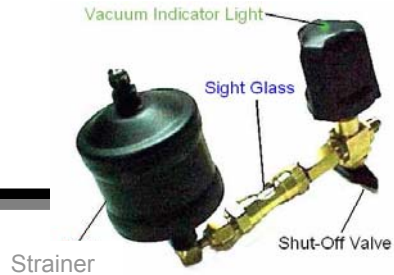


To order more racks please contact:
PumpWorks, Inc.: 1-800-431-4408

Limited Warranty—
Your Racking System is warranted against defects in workmanship and materials under normal use for one year.
PumpWorks, Inc. assumes no liability on the actual use of this equipment.
Components subject to normal wear and tear are excluded from this warranty.

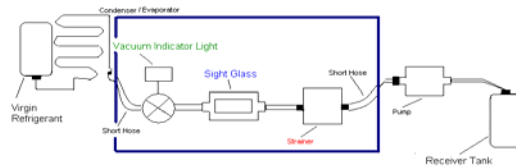
"BOSS"

Burn Out Flushing System



- ***Quick Connect**
- ***No Gauges Required**
- ***Visible Refrigerant Flow**
- ***Attached Strainer allows Faster & Cleaner Refrigerant Flow**
- ***Valve for shut-off and trouble shooting**

SYSTEM PROCEDURE



- Isolate component to be flushed
- Check pressure in receiver tank, bleed non-condensable gasses as required
- Attach the "BOSS" device as shown
- Start pump, open valves to receiver tank, inlet pressure switch will light
- Flood component with flushing refrigerant until liquid is visible in sight glass, shut off flushing refrigerant, position in an inverted position to allow liquid to drain towards pump
- Pump until pressure switch lights, then flood again
- Pump until pressure switch lights
- Continue to cycle fluid until no residue shows in sight glass, usually 2-3 times

Also available as a "Boss Kit"
(2 small, 2 medium PT Grippers
& Boss Burn-Out Tool)



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