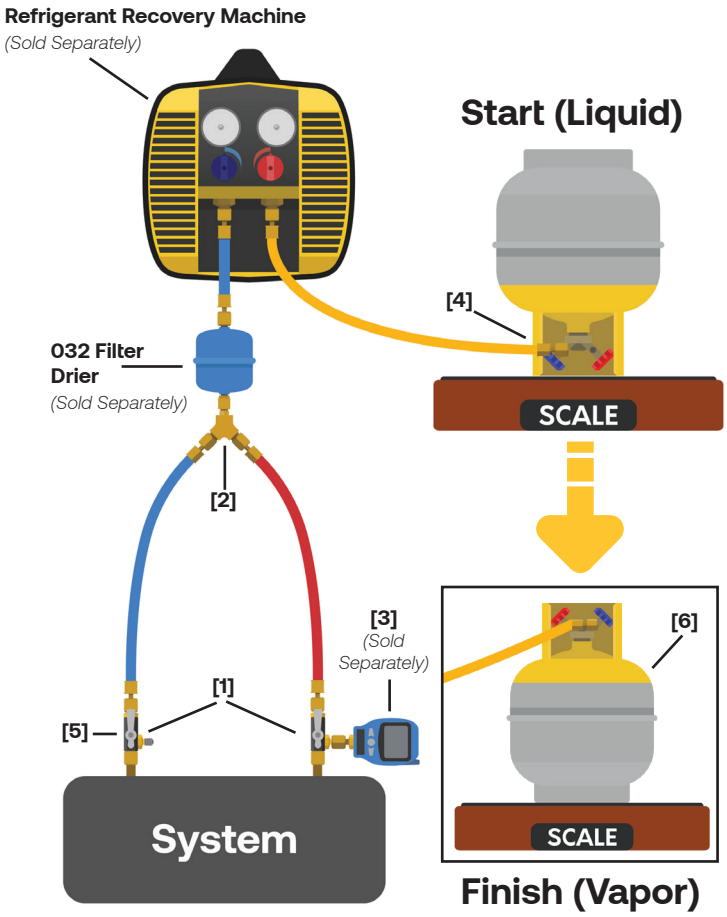
Refrigerant Recovery

MegaFlow™ SpeedKit-R
Quick Start Guide

Advancements in technology have made it possible to perform refrigerant recovery *without a traditional gauge manifold set*. This setup offers benefits such as better flow & faster recovery speeds, fewer potential leak points, less equipment to carry to a jobsite, and a reduction in total added lineset (and refrigerant loss).

How to setup the MegaFlow™ SpeedKit-R



Setup Notes

[1] Connect Valve Core Removal Tools to both ports on the system - Always remove valve cores for full unrestricted flow. (Use ***MGAVCR*** for 5/16" port systems)
[2] Connect the Appion Speed-Y as shown between system hoses & recovery machine.
[3] A compound digital pressure 'stub' gauge *(Sold Separately)* will indicate when the EPA required Level of Evacuation (eg. 10-15 inHg) has been reached.
[4] Connect to the ***vapor port*** of the recovery cylinder and rotate the cylinder upside down to improve cooling and avoid the restrictive liquid dip tube. Cylinder must be rotated right-side-up at the end of the process.

Continue the recovery process as normal. Use the ball valves on the valve core removal tools to switch from liquid to vapor recovery.

[5] Open the vapor ball valve once all liquid refrigerant has been recovered.
[6] Rotate the cylinder right-side-up when recovery has reached vapor-only to reduce the amount of refrigerant left in the output hose.

Important Safety Tip: *Always rotate the recovery cylinder in a direction that will tighten the fitting to avoid unexpected refrigerant release.*

Recommended Recovery Accessories & Products

Product	Description	Part No.
Recovery Machine	G5Twin Refrigerant Recovery Machine	G5TWIN
Compound Digital Stub Gauge	PT500 Compound 29inHg to 500 PSI Wireless Pressure & Temperature Gauge	PT500
Filter Drier	Size 032 Filter Drier (1/4" Flare Fittings)	***Contact Wholesaler***

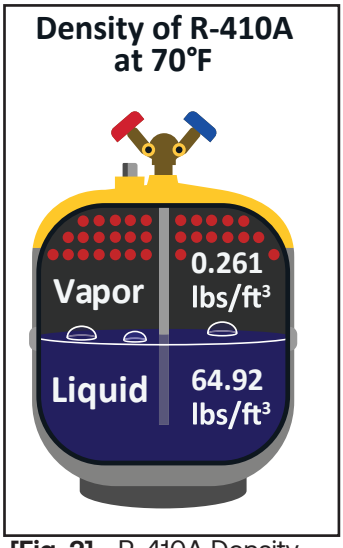
MegaFlow™ Speed Kit Contents

Product	Part No.
(4) MegaFlow™ Valve Core Removal Tools	MGAVCT *(1/4")* MGAVCR *(5/16")*
(2) MegaFlow™ 3/8" Recovery Hoses	MH380006EAR *(Red)* MH380006EAB *(Blue)*
(1) MegaFlow™ 3/8" Filter Drier Hose	MH380001BAB
(1) MegaFlow™ 3/8" Recovery Output Hose	MH380004AAY
(1) Appion Speed-Y	SPDY14 *(1/4")*
(1) Speed Kit Carry Bag (Backpack)	PK7520

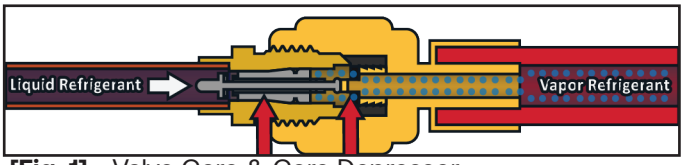
See Reverse for Important Recovery Tips

Important Recovery Tips

- **Evacuate the Recovery Cylinder -** Recovery cylinders should be evacuated to 500 microns prior to use to remove non-condensables and contaminants, as well as improve the initial transfer of refrigerant.
- **Always purge hoses prior to recovery** - This will reduce/prevent non-condensables from entering the recovery tank.
- **Remove Input Restrictions** - Valve cores & core depressors block about 90% of all flow and act as metering devices during recovery. By removing these restrictions, it allows the machine to pump liquid refrigerant and with the full flow it was designed for. **[Fig. 1]**
- **Use 3/8" hoses** - Standard 1/4" hoses are extremely restrictive and will slow the recovery process.
- **Pump liquid refrigerant first** - Liquid refrigerant is significantly more dense than vapor and is therefore much more efficient to pump. **[Fig. 2]** The G5Twin is designed to pump straight liquid with no throttling!
- **Clean input fitting debris screen before every use** - The screen can become clogged with debris and reduce performance. **[Fig. 3]**
- **Use a new inline Filter Drier on every job** - A filter drier protects the compressor against damage when pumping refrigerant. This is especially important on burnout systems.
- **Fully open both valves on the G5Twin** - The G5Twin was designed to run with the onboard valves fully open. **[Fig. 4]** If it is necessary to throttle the G5 in order to 'quiet' the machine, that is typically an indication that restrictions are present in the setup. With all restrictions removed, recovery should be quiet and fast.
- **Connect to the vapor port on the recovery tank** - This will avoid the restrictive liquid dip tube on the liquid port. **[Fig. 5]**
- **Fully open the valve on the recovery tank** - a partially opened valve will create an output restriction, slow recovery speeds, and create noisy recovery.

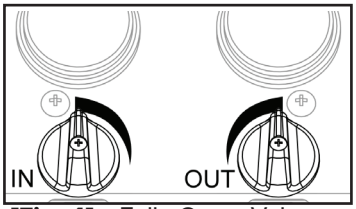


[Fig. 2] - R-410A Density

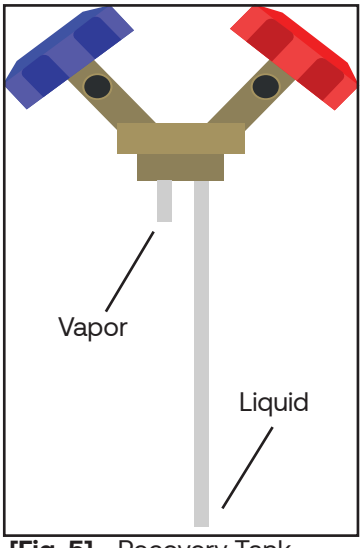


[Fig. 1] - Valve Core & Core Depressor


[Fig. 3] - Clogged Filter Screen



[Fig. 4] - Fully Open Valves on the G5Twin



[Fig. 5] - Recovery Tank Valves

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