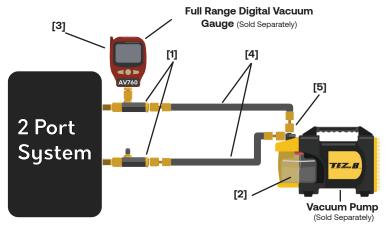


MegaFlow™ Basics Kit Quick Start Guide

How to setup the MegaFlow™ Basics Kit for optimal flow & fast evacuation



Note: Setup as shown requires 2x MegaFlow™ Basics Kits

Setup Notes - 2 Port Systems

- [1] Connect Valve Core Removal Tools to <u>all</u> available ports on the system <u>Always remove</u> valve cores for full unrestricted flow. (Use Part# MGABRO for 5/16" port systems)
- **[2]** Monitor oil condition visually <u>and</u> with a Full Range Digital Vacuum Gauge. <u>Change the oil when</u> the evacuation stalls.
- [3] Connect the vacuum gauge as far from the vacuum pump as possible (on a spare port, or side port of a Valve Core Removal Tool). <u>Vacuum does not equalize like pressure.</u>
- [4] Connect 1/2" hoses for maximum flow.
- [5] It is not necessary to use a manifold on a 2-port system. Connect directly to the Vacuum Pump for best flow.

See Reverse for Important Evacuation Tips

Recommended Evacuation Accessories & Products

Product	Description	Part No.
Vacuum Pump	TEZ8 8CFM Vacuum Pump w/ 5 second oil change	TEZ8
Valve Core Removal Tools	MegaFlow™ Valve Core Removal Tools (1/4" & 5/16")	MGAVCT (1/4") MGAVCR (5/16")
Vacuum-Rated Hoses	MegaFlow™ Vacuum-Rated 1/2" Hoses (6ft, 1/4" x 3/8" connections)	MH120006EAK
Full Range Vacuum Gauge	AV760 Full Range Wireless Digital Vacuum Gauge	AV760
Vacuum Pump Oil	TEZOM Micron Dry Vacuum Pump Oil	TZM1PK (1 cartridge) TZMGLN (1 Gal.)

MegaFlow™ Basics 1/4" Contents

Product	Part No.
(1) MegaFlow™ Valve Core Removal Tools (1/4")	MGAVCT
(1) 1/2" Vacuum-Rated hose (Black)	MH120006EAK

MegaFlow™ Basics 5/16" Contents

Product	Part No.
(1) MegaFlow™ Valve Core Removal Tools (5/16")	MGAVCR
(1) 1/2" Vacuum-Rated hose (Black)	MH120006EAK

Larger Jobs? Use MegaFlow™ SpeedKit-V for Multi Port (3+) Systems

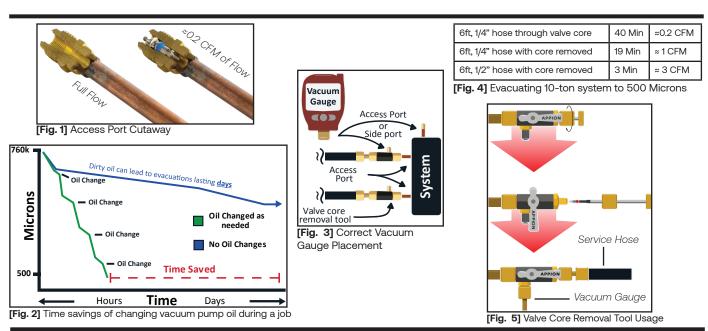
- MegaFlow[™] SpeedKit-V Part# SPDKIT-V Includes:
 - •(2) MegaFlow[™] Valve Core Removal Tools (1/4")
 - •(2) MegaFlow™ Valve Core Removal Tools (5/16")
 - •(2) 1/2" Vacuum-Rated hoses (Black)
 - •(1) Appion Speed-Y (3/8")
 - •(1) Appion Speed-Y (1/2")
 - •(1) SpeedKit Carry Bag (Backpack)





Important Evacuation Tips

- Remove valve cores before evacuation Valve Cores & Core Depressors block up to <u>90%</u> of all flow and will limit the flow of any vacuum pump to ≈0.2 CFM. [Fig. 1]
- Use as many 1/2" vacuum-rated hoses during evacuation as possible- Larger hoses have greater flow and will result in faster evacuation when used correctly.
- Connect hoses directly* to the Vacuum Pump Direct connections to the pump have better flow and less chance to leak compared to being connected to a manifold. *Except in cases of multi-port systems, see reverse
- Monitor condition of the oil during evacuation Vacuum pump oil is one of the biggest influences on the speed of an evacuation. Clean oil will allow the system to be evacuated to a much deeper vacuum than contaminated oil. Stalled evacuations are often the result of dirty, contaminated oil. A vacuum pump can only pull a vacuum as deep as the vapor pressure of its sealing oil. As the oil collects contaminants & moisture during evacuation, this vapor pressure rises. Clean oil restores vacuum pump efficiency & can save hours or days on an evacuation. Oil should be changed early & as needed for fast evacuation. [Fig. 2] This could be multiple times on one job!
- Use a Digital Vacuum Gauge to monitor progress The only way to verify a complete evacuation is with a digital vacuum gauge. A Full Range gauge is recommended for complete visibility.
- Connect the Vacuum Gauge to the system as far from the pump as possible For a system to be adequately dehydrated a deep vacuum must be achieved throughout the entire system, not just the point where the vacuum pump is connected. Unlike pressure, vacuum will not quickly equalize across all points of the system. For the most accurate reading of vacuum depth throughout the system, connect the vacuum gauge at an access port on the system that is farthest from the Vacuum Pump. [Fig. 3] It is possible for one end of the system to be evacuated to 1,000 microns while another end far from the vacuum pump can still be at 10,000 microns.
- <u>Do Not</u> use 1/4" hoses & <u>charging manifolds</u> for evacuation A standard 1/4" hose & manifold are not meant for evacuation and will <u>limit</u> the flow of <u>any</u> vacuum pump to ≈1 CFM (w/ valve core removed). [Fig. 4]
- <u>Do Not</u> run the Vacuum Pump for multiple jobs without changing the oil Dirty oil = slow evacuation and *can* damage the pump. <u>Oil should be changed when needed!</u>
- <u>Do Not</u> tighten hoses & port caps with tools Gaskets can be damaged if overtightened, creating a leak. Hand tight only!





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