

NEW VACUUM PUMP/VACUUM GAUGE

Mastercool's new vacuum pump design reduces operating temperatures over 65%!

Heat is the #1 enemy to the durability and performance of any vacuum pump. After investing countless hours in lab testing, consulting specialty engineers and thousands of field technician calls, Mastercool has designed a new series of cooler more efficient vacuum pumps. By achieving cooler operating temperatures the performance and life of the oil, cartridge and motor are greatly improved. The new design incorporates a fully field serviceable pump cartridge, deep fin heat dissipating cartridge cover, high volume fan and cooling tunnel. The results of the new design improvements have increased the heat transfer rate by three to four times the conventional methods. Increasing the heat transfer rate reduces the operating temperature which delivers a longer more efficient pump performance!

MODEL	NO. OF STAGES	FREE AIR DISPLACEMENT	ULTIMATE VACUUM	MOTOR	PUMP SPEED	ELECTRICAL SPECS	SHIPPING WEIGHT	DIMENSIONS IN CM
90080	2	1.5 CFM	50 Microns	1/6 HP	3450 RPM	110 V / 60 HZ	15 lbs.	29.5 x 11.5 x 21.5 x 18

SERVICE INFORMATION	1.5 CFM
OIL CAPACITY	10 oz
REPL. CARTRIDGE	90280



*High Volume Cooling Fan
Improves Performance!*



Patent Pending

98061 DIGITAL VACUUM GAUGE

As a professional technician the assurance of a deep vacuum on a system is imperative. The main problem with many small handheld units is their inaccuracy and durability. Although the thermocouple sensor has been proven to be much more accurate and durable than the thermister type, the problem has been the inconvenience of a cumbersome tabletop unit. Mastercool is introducing a hand held unit using thermocouple technology. This vacuum gauge has been designed with the technician's field environment in mind, allowing for self-calibration and a sensor that will not be damaged by small mists of oil. The Mastercool unit allows for a target vacuum range to be programmed with a light sensor indicator. Now you have the freedom to continue with your other work and come back to the system once you see the indicator light signaling your target vacuum.

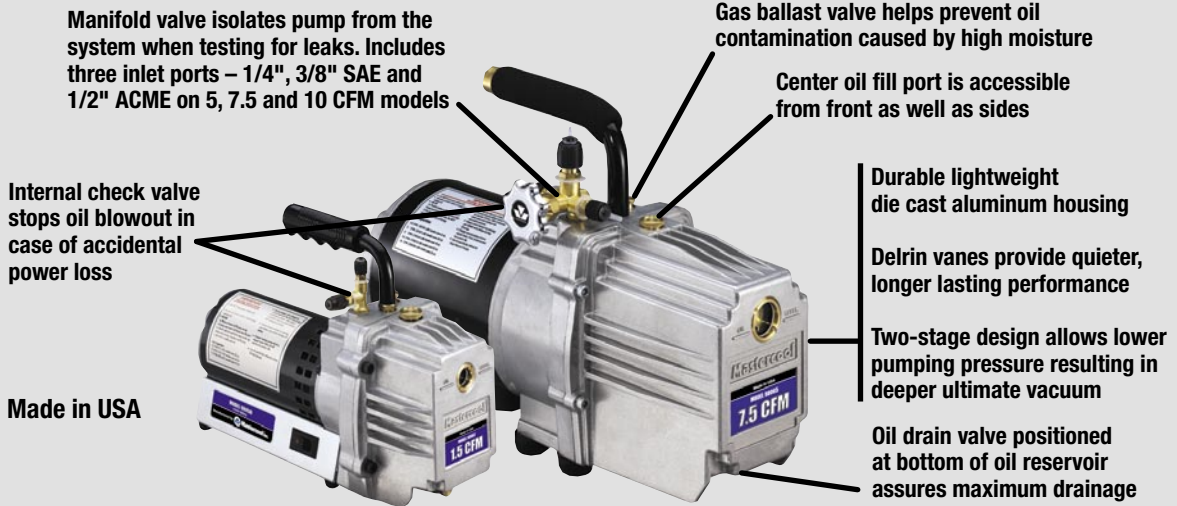
SPECIFICATIONS:

Response Time:	250 mSec.
Sensor Cable:	Spiral cable extended to 3 feet long
Sensor:	Thermocouple sensor
Connect Fitting:	1/4" female flare
Operating Temperature:	32 to 120°F (0 to 45°C)
Power:	9V battery
Battery Life:	15 hours
Low Battery Indicator:	Special ICON on LCD
Vacuum Units:	Micron, mTorr, mmHg, mBar, Pa, InHg



ROTARY VANE DEEP VACUUM PUMPS

A good quality vacuum pump is an integral tool for complete A/C service. Mastercool vacuum pumps are durable and time tested. They stand up to the most grueling conditions and will provide years of reliable service. Mastercool offers a complete selection of pumps. Regardless of your service requirements, Mastercool has a model for your application.



90062

90062 2 CFM VACUUM PUMP (ONE STAGE)

This model is ideal for smaller sized systems (less than 3 lb charge capacity). The inlet ports include 1/4" SAE and 1/2" ACME (for automotive R134a systems).

NO OF STAGES	FREE AIR DISPLACEMENT	ULTIMATE VACUUM	PUMP MOTOR	PUMP SPEED	ELECTRICAL SPECS	SHIPPING WEIGHT
1	2 CFM	70 MICRONS	1/3HP	1725RPM	110 / 60HZ	28 lbs



90065

90065 5 CFM VACUUM PUMP (TWO STAGE)

This model is an excellent choice for small to medium sized systems (2.5 lb to 10 lb charge capacity). This two stage pump features a manifold valve to isolate it from the system and three inlet ports: 1/4" FL, 3/8" FL and 1/2" ACME (for automotive R134a systems).

NO OF STAGES	FREE AIR DISPLACEMENT	ULTIMATE VACUUM	PUMP MOTOR	PUMP SPEED	ELECTRICAL SPECS	SHIPPING WEIGHT
2	5 CFM	25 MICRONS	1/3HP	1725RPM	110 / 60HZ	32 lbs



90067

90067 7.5 CFM VACUUM PUMP (TWO STAGE)

This model is the choice for medium sized and larger systems (5 lb and above capacity). The 1/2 horsepower motor makes cold condition start up quick and easy. This two stage pump features a manifold valve to isolate it from the system and three inlet ports: 1/4" FL, 3/8" FL and 1/2" ACME (for automotive R134a systems).

NO OF STAGES	FREE AIR DISPLACEMENT	ULTIMATE VACUUM	PUMP MOTOR	PUMP SPEED	ELECTRICAL SPECS	SHIPPING WEIGHT
2	7.5 CFM	25 MICRONS	1/2HP	1725RPM	110 / 60HZ	34 lbs



Mastercool[®]
"World Class Quality"

90070 10 CFM VACUUM PUMP (TWO STAGE)

This model is ideal for large systems. The 1/2 horsepower motor makes cold condition start up quick and easy. This quiet running two stage pump features a three-port manifold valve for system isolation, (1/4" FL, 3/8" FL & 1/2" ACME).

NO OF STAGES	FREE AIR DISPLACEMENT	ULTIMATE VACUUM	PUMP MOTOR	PUMP SPEED	ELECTRICAL SPECS	SHIPPING WEIGHT
2	10 CFM	25 MICRONS	1/2HP	1725RPM	110/60HZ	36 lbs

90070



PUMP#	90062	90065	90067	90070
OIL CAPACITY	24 oz	18 oz	24 oz	22 oz
REPLACEMENT CARTRIDGE	90152	90156	90157	90170

VACUUM PUMP OIL

PART# DESCRIPTION

- 90010-6** Case of Six (10 oz bottles)
- 90018-6** Case of Six (18 oz bottles)
- 90024-6** Case of Six (24 oz bottles)
- 90032-6** Case of Six (32 oz bottles)
- 90128-4** Case of Four (1 gallon bottles)



98060 VACUUM GAUGE

A durable, self contained battery powered vacuum gauge which displays the level of vacuum on a ten LED color coded readout. It allows for readings in ten segments from atmosphere to 50 microns. The unique design of the **98060** allows for inline connection through the system or directly at the vacuum pump.



VACUUM PUMPS/ECONOMY SERIES

90059 1.5 CFM VACUUM PUMP (SINGLE STAGE)

- High Efficiency One Stage 1.5 CFM Pump
- Easy Access Oil Fill Port
- Ultimate Vacuum 100 Microns
- 1/6 HP 110 Volt Motor
- Gas Ballast Valve Helps Prevent Oil Contamination
- Weight – 16 lbs
- Internal Check Valve on Pump Access Fitting Prevents Oil Blowout
- Oil Capacity – 6 oz

90059



90066 5 CFM VACUUM PUMP (TWO STAGE)

- High Efficiency Two Stage 5 CFM Pump
- Internal Check Valve on Pump Access Fitting Prevents Oil Blowout
- Ultimate Vacuum 25 Microns
- Manifold Valve Isolates Pump from the System when Testing for Leaks
- Easy Access Oil Fill Port
- 3 Inlet Port Sizes: 1/4", 3/8" SAE & 1/2" ACME
- 1/3 HP 110 Volt Motor
- Gas Ballast Valve Helps Prevent Oil Contamination
- Weight – 38 lbs
- Oil Capacity – 8 oz

90066



82031 VACUUM PUMP SWIVEL ADAPTER

"T" style adapter screws onto existing 1/4" flare fitting and converts to 1/4"-FL and 1/2" ACME.



VACUUM PUMP SOLENOID SWITCH

This adapter will screw onto a 1/4" FL inlet port on the vacuum pump. Plug the pump into the adapter and plug the adapter into an outlet. Operate the pump using the adapter switch. This adapter will eliminate vacuum loss and oil backup.

90160-100 100V 50/60 Hz

90160-220 220V 50/60 Hz



91200 AIR OPERATED LIGHT DUTY VACUUM PUMP

Requires 4.5 CFM/90 PSI shop air. No moving parts, no oil required, 1.3 CFM air displacement venturi type pump will pull up to 29 inches of vacuum (Hg.) at sea level. Includes 1/4" flare (R12) connection and 1/2" ACME (R134a) connection.

