

HVAC AIR CONDITIONING, REFRIGERATION, SERVICE TOOLS & EQUIPMENT



Corporate Office Manufacturing and USA Warehouse

For 40 years Mastercool has been supplying professional quality air conditioning service tools and equipment. As one of the fastest growing companies in this market, our primary goal is to drive new product innovation and technologies to make the every day work of the HVAC/R technician easier!

With our never-ending focus on innovation and new technology, Mastercool has been awarded many patents worldwide. Our products are currently being distributed in over 76 countries and growing everyday!

MASTERCOOL LOCATIONS:

Corporate Office, Manufacturing and USA Warehouse 1 Aspen Drive, Randolph, NJ 07869 USA

European Sales Office and Warehouse Zone Waas 2334 Laagstraat 19 9140 Temse, Belgium

Brazil Sales Office and Warehouse Rua Inácio Luis da Costa, 908 Pq. São Domingos 05112-010 - São Paolo - SP - Brasil

Australian Sales Office 3 Tozer Street Port Macquarie, NSW 2444 Australia



European Sales Office and Warehouse



Brazil Sales Office and Warehouse



Australian Sales Office

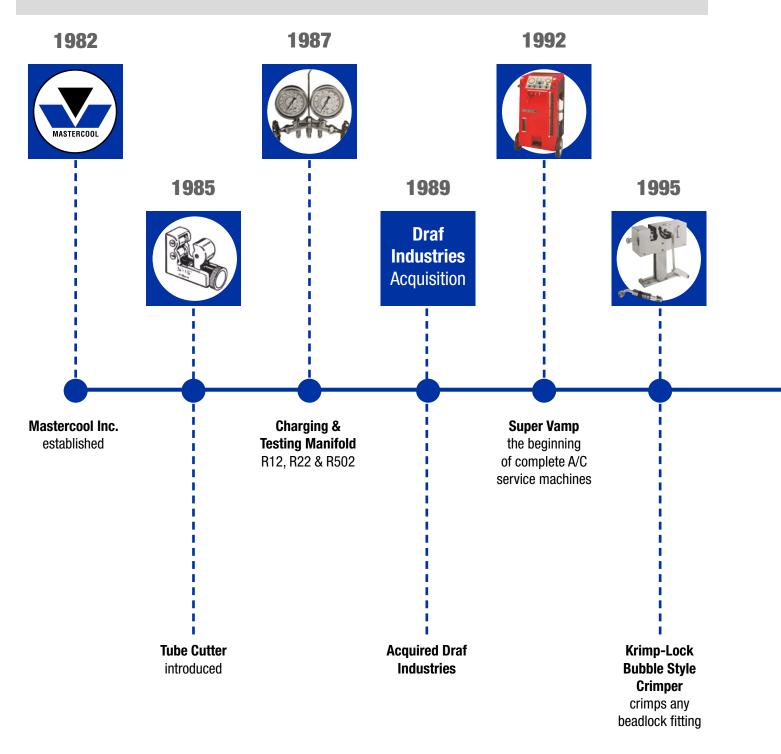




MASTERCOOL INC. a world leader in supplying professional air conditioning, service tools and equipment is celebrating 40 years since its inception in 1982.

Headquartered in the northeast United States, Mastercool was established with the objective of supplying superior quality products to automotive and HVAC technicians. Mastercool's name has become synonymous with "World Class Quality" and uniquely innovative product design. Formed as a family owned and operated company, in Randolph, New Jersey, Mastercool has now expanded with offices featuring full inventory and staff in Belgium, Brazil and Australia and distribution to over 76 countries.

The flexibility and support of a privately owned mid-sized company has allowed Mastercool to manufacture all of its products with the highest quality components and management systems. All products are checked and tested directly at our headquarters in

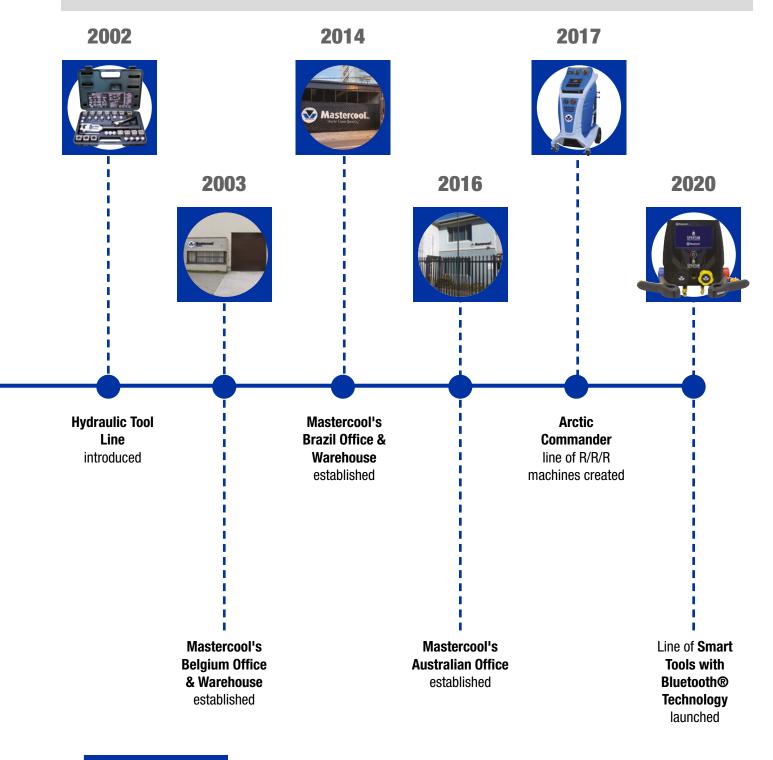




Randolph, New Jersey, USA.

The past few years have been specifically noteworthy with the addition of our Arctic Commander line of recovery/recycle/ recharge machines completely designed and assembled in the United States as well as the addition of a line of smart tools utilizing Bluetooth[®] wireless technology in coordination with our Mastercool Connect app. Adding to our wide range of products by focusing on new technology has always been a primary goal while driving product innovations to make the every day work of the technician easier.

We would like to thank all of our partners and distributors for their continued support as we celebrate Mastercool's past and look forward to the exciting future ahead.





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MASTERCOOL PRODUCTS ARE MADE/ASSEMBLED IN THE USA



Mastercool manufactures all of its products with the highest quality components and management systems. All products are checked and tested directly at Mastercool headquarters in Randolph, New Jersey, USA.

Certificate of Registration

Our products comply in every respect with the requirements set forth by SAE and EPA Standards as well as ARI Standard 740-98, EU Directives and PROP 65 guidelines.





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CHARGING & RECOVERY EQUIPMENT

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THE TWIN TURBO SERIES IS THE MOST COMPLETE SOLUTION TO YOUR RECOVERY NEEDS!







Approved for all Air Conditioning Refrigerants including A2L Mildly Flammable Refrigerants

Mastercool's addition to the recovery machine lineup takes the reliability of the 69000 series machines and enhances those features to allow for maximum recovery capacity while at the same time decreasing size and weight. The design of the double piston compressor and cooling by the largest fan and condenser in the market makes the 69300 series the most complete solution to your recovery needs!

FEATURES & BENEFITS:

- · Revolutionary double piston oil-less compressor
- · Safety high pressure switch
- · Simple internal structure for field service
- Largest volume recovery rate in market
- Approved for all air conditioning refrigerants including A2L mildly flammable refrigerants (i.e. R410A, R32, R1234yf)
- · Injection molded high density polyethylene case for maximum durability
- · Front cover has bumper guards built in to reduce damage to the control knobs

SPECIFICATIONS:

- 1/2 hp oil less compressor
- Recovery Rate:

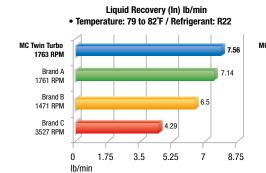


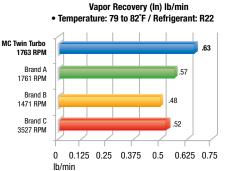
- Dimensions: 18" (I) x 10" (w) x 14" (h) (457 mm (l) x 254 mm (w) x 356 mm (h))
- Case Material is HDPE (High Density Polyethylene)
- Compatible refrigerants: All CFC, HCFC, and HFC's

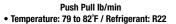
69300	115 V - 60 Hz	
69370	115 V - 60 Hz This unit offers all the same functions and features as the 69300. In addition it has a 6' 3 pole female float switch cable	
69500-DR	Filter Dryer	3
69100-104	Sight Glass	3 pole fema

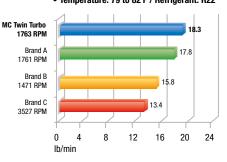


ale float switch cable









WWW.MASTERCOOL.COM

Spark Free combustible gas recovery machine





K COMPATIBLE WITH COMBUSTIBLE GASES

Approved for all Air Conditioning Refrigerants including A2L and A3 Flammable Refrigerants

This unit offers all the same functions and features as the 69300.

In addition:

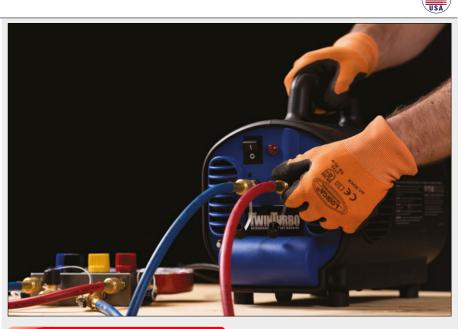
- Approved for all air conditioning refrigerants including A2L and A3 flammable refrigerants (i.e. R600a, R290)
- Compatible with all CFC, HCFC and HFC's
- Electric wiring and switches are sealed
- · Built with spark free components

69395

115 V - 60 Hz Spark Free Combustible Gas Recovery Machine







W COMPATIBLE WITH COMBUSTIBLE GASES

+Approved for all Air Conditioning Refrigerants including A2L and A3 Flammable Refrigerants+

Mastercool's "Mini Twin" all in one recovery machine is equipped with the same high quality twin piston compressor as the Twin Turbo series and has been designed to work in all applications. Whether you find yourself up a ladder, in a crawl space or just not looking forward to lugging around a heavy piece of equipment this is the right machine for you. Best of all, this machine has been constructed with the safest spark free component allowing for use with all combustible gases.

SPECIFICATIONS:

- 1/2 HP motor
- Operating Temperature: 0 to 50°C (32 to 122°F)
- Approved for all air conditioning refrigerants including A2L and A3 flammable refrigerants (i.e. R600a, R290)
- Compatible with all CFC, HCFC, HFC's, and Combustible gases
- Weight: 11 kg (24 lbs)
- Dimensions: 300 mm (I) x 200 mm (w) x 270 mm (h) (11.8" (I) x 7.9" (w) x 10.6" (h))

69400 115 V - 60 Hz



REFRIGERANT RECOVERY SYSTEM





These recovery systems are compact, lightweight and work with all refrigerants. They're ideal for commercial, residential or industrial appliance applications.

Our recovery systems offer a state-of-the-art 1/2 HP oil-less compressor with a built-in high volume cooling fan. This innovative design delivers maximum cooling efficiency which keeps the compressor working at high capacities in even the hottest climates. The compressor is also protected by an automatic low pressure cut-off switch that shuts off the unit once the recovery is complete. This AUTO SHUT-OFF feature eliminates the risk of compressor failure and reduces the user's need to monitor the entire recovery system.

All of our recovery systems offer our color-coded gauges with pressure readings in PSI, BAR and MPa. Our stainless steel ball valve designed manifold, controls the flow smoothly and quickly with only a 1/4 turn. With all of this protected by a reinforced hard plastic case, Mastercool's recovery systems will meet all your refrigerant recovery needs.

FEATURES:

- High performance oil-less compressor
- High volume cooling fan design
- Automatic low pressure cut-off switch
- Liquid compatible head-valve system
- · Safety high pressure cut-off switch
- Fully reinforced hard plastic casing

SPECIFICATIONS:

69115

- 1/2 HP oil-less compressor
- Recovery Rate
- direct vapor up to .44 lb/min (12 kg/h)
- direct liquid up to 2.6 lb/min (71 kg/h)
- push-pull up to 11.9 lb (326 kg/h)
- Operating Temp. Range: 32 to 122°F (0 to 50°C)
- Weight: 38 lbs (16 kg)
- Dimensions: 17" (I) x 10" (w) x 12" (h) (432 mm (I) x 254 mm (w) x 305 mm (h))
- Refrigerants: CFC's, HCFC's, HFC's

69000	115 V - 60 Hz
69115	115 V - 60 Hz This unit offers all the same functions and features as the 69000. In addition it has a 6' 3 pole female float switch cable



3 pole female float switch cable

69500 RECOVERYMATE



Speed up the recovery process! Remove unwanted moisture and separate oil from recovered refrigerant. (Use with any recovery machine.)

SPECIFICATIONS:

- · Lightweight and easy to carry
- 4-way ball valve manifold controls the flow smoothly and quickly with only 1/4 turn
- · Large capacity oil separator
- High performance dryer eliminates moisture from recovered refrigerant
- Extra large sight glass monitors refrigerant flow and changes color when a dryer change is necessary
- Rugged carrying case can stand on its own or be mounted on a wall or bench
 - Length: 15" / Width: 4" / Height: 17"
 - Weight: 12.25 lbs
 - Includes 60" nylon barrier hoses ((2) blue, (2) red, (1) yellow and (1) black)



MOBILE MENSTER

BRINGING OPTIMAL PERFORMANCE TO ANY ENVIRONMENT

Are you tired of struggling with limited options when it comes to servicing your field equipment? Look no further than the Mastercool Mobile Monster, the solution designed to handle even the toughest conditions while providing robust recovery (select models only) and efficient charging capabilities.

At Mastercool Inc., we understand that equipment resilience is crucial, regardless of the setting. That's why we've created the Mastercool Mobile Monster, a heavy-duty work station built to endure and excel in any environment, from challenging fieldwork to regular usage.

- UNMATCHED DURABILITY: With its rugged design and built-to-last construction, this unit is engineered to handle the harshest environments. Its robust steel framework (36 1/4 x 28 3/4 x 25") and reinforced components ensure optimal performance, even in the most demanding conditions.
- FIELD-READY MOBILITY: Say goodbye to equipment limitations. This unit is equipped with 4 extra-large 10" pneumatic off-road tires, enabling smooth navigation across
 rough terrains and challenging landscapes.
- STREAMLINED EFFICIENCY: This unit includes the equipment necessary to perform comprehensive operations ensuring minimal downtime and maximum productivity.

Don't compromise on equipment resilience, whether you're in the field or facing everyday challenges. Experience the unparalleled durability, mobility, and functionality of the Mastercool Mobile Monster.



91787 COMPLETE HEAVY-DUTY CHARGING/RECOVERY STATION (110V)

- 4-way aluminum manifold (1/4" SAE fittings) with digital gauges for precise calculations of over 90 refrigerants (86103-DG)
- 240 lb capacity black series electronic charging scale with long lasting 9V battery (98210-BL)
- 6 CFM, 2 stage black series vacuum pump stands up to the most grueling conditions (90066-2V-110-BL)
- Twin turbo refrigerant recovery machine with oil separation module, filter dryer and sight glass (69350)
- Nylon barrier hoses with standard (1/4" x 1/4") fittings (15' blue and red, 72" & 36" yellow, 36" black) meets EPA, SAE and UL requirements for containment of refrigerant (47961-200, 47963-200, 47722, 47364, 47362)



Black Series Electronic Charging Scale with Bluetooth® Wireless Technology 98210-BL

THE ULTIMATE DEVICE FOR CHARGING AND RECOVERING OF REFRIGERANT



CE

Mastercool's electronic charging scale with Bluetooth® wireless technology features an extra-large LCD display for easy reading from any angle and features three display modes (kgs, lbs, oz). With a high capacity of up to 243 lbs (110 kgs) it is easily one of the best on the market. Included in this package will be the capability to download our free Mastercool Connect app. This will allow for full mobility as activity can be easily viewed on all compatible hand-held smart devices.



CALIBRATION CERTIFICATE AVAILABLE UPON REQUEST

Durable and Portable

Strong aluminum base with a rugged, non-slip platform provides extra durability while working in any environment. The included compact and heavy-duty carrying case allows for easy portability to any job site.

Manufactured for Performance

The large 9 x 9" platform provides for easy weighing of refrigerant tanks with an accuracy of $\leq \pm 0.05\%$ of reading.

FUNCTIONS:

- CHARGE PROGRAMMING: Allows user to program desired quantities. Before charge is complete, an alarm will sound allowing ample time to turn off refrigerant supply
- PAUSE/CHARGE (Using the 98230 Charging Solenoid Module): This feature allows user to stop and continue charging
- TANK CAPACITY PROGRAMMING: EMPTY/FULL tank feature allows user to know the amount of refrigerant in the tank at any time
- REPEAT: Allows user to charge previously stored amount

CERTIFIED ELECTRONIC CHARGING SCALE 98211-B Black Series WITH BLUETOOTH® WIRELESS TECHNOLOGY

NEW CE OIML

OIML & CE Approved, Legal for Trade. Included in this package will be the capability to download our free Mastercool Connect app. This will allow for full mobility as activity can be easily viewed on all compatible hand-held smart devices.



FUNCTIONS:

- CHARGE PROGRAMMING: Allows user to program desired quantities. Before charge is complete, an alarm will sound allowing ample time to turn off refrigerant supply
- PAUSE/CHARGE (using the 98230 Charging Solenoid Module): This feature allows user to stop and continue charging
- TANK CAPACITY PROGRAMMING: EMPTY/FULL tank feature plug in power supply allows user to know the amount of refrigerant in the tank at any time
- REPEAT: Allows user to charge previously stored amount

SPECIFICATIONS:

· Accuracy class: III

Certificate

- Maximum capacity: 55 kg / 110 kg
- Minimum capacity: 400 g
- Verification scale interval: e = 20 g / 50 g
- Actual scale interval: d = 20 g / 50 g
- Maximum number of scale intervals: n = 2750 / 2200
- · Weighing range (s): multiple interval
- Temperature range: 0°C / +40°C
- Power supply voltage: 9 V battery; 9 V AC/DC
- Automatic shut-off: 3 hours
- Battery life: approximately 40 hours
- Platform: 22 x 22 cm (9 x 9")





WIRELESS REFRIGERANT CHARGING SCALE

CALIBRATION CERTIFICATE AVAILABLE UPON REQUEST

FEATURES:

- Wireless unit prevents unwanted tangles in wires
- Easily store the remote in the body of the platform
- · Keypad provides synchronization and zeroing
- · Extremely accurate weight sensor
- · Magnet on remote allows easy placement on fixtures
- · Battery life symbol for platform and remote constantly displayed on LCD
- · Wireless signal strength indicator conveniently displays on remote

FUNCTIONS:

- CHARGE PROGRAMMING:
- Allows user to program desired quantities. Before charge is complete, an alarm will sound allowing ample time to turn off refrigerant supply.
- PAUSE/CHARGE (98315 model only): This feature allows user to stop and continue charging.
- TANK CAPACITY PROGRAMMING:
- Empty/full tank feature allows user to know the amount of refrigerant in the tank at any time. • REPEAT (98315 model only):
- Allows user to charge previously stored amount.

SPECIFICATIONS:

98315 with solenoid

- Capacity: 243 lbs (110 kg)
- Accuracy: ≤±0.05% of reading
- Resolution: 0.05 lb / 0.5 oz / 0.01 kg
- 3 hrs auto off function
- Operating temperature: 32°F to 120°F (0°C to 49°C)
- · Battery life: approximately 20 hours
- 31 cm platform
- Accepts all US & EU standard cylinders

98310	Wireless Refrigerant Charging Scale
98315	Wireless Refrigerant Charging Scale with Solenoid





ELECTRONIC TANK HEATER BLANKET 98250

When remote is out of range the unit will automatically pause. This pause mechanism allows unit to restart when remote is back in range.

The Mastercool refrigerant tank heater blanket speeds up recharging time.

- Assures total discharge of refrigerant from 30 lb and 50 lb tanks. Heats tanks to 125°F resulting in maximum pressure of 185 psi for R134a
- · Quick working 300W heater element
- · An excellent complement to all Mastercool refrigerant scales
- 110 V

CHARGING SOLENOID MODULE 98230



The 98230 Charging Solenoid Module turns the 98210-BL ACCU-CHARGE II & 98211-B ACCU-CHARGE III into Automatic Programmable Scales!

This module allows the user to control the exact amount of refrigerant transferring to and from the A/C system. The compact design is battery powered (9V), lightweight, portable and works with all types of refrigerant. The 98230 with 1/4" x 1/4" fittings includes a short hose for tank connection, USB cord and 1/4" FL -1/2" ACME adapters.





98209 ELECTRONIC CHARGING SCALE

Contraction of the second seco

Slim design for easy storage

- Two keys for easy operation
- Unit change (grams & ounces)
- One touch tare weighing function
- Auto zero and auto off (after 3 hours)

SPECIFICATIONS:

- Capacity: 176 oz / 5000 g
- Sensitivity: 0.035 oz / 1 g
- Dimensions: 140 (w) x 185 (l) x 35 (h) mm
- Platform size: 120 mm
- Power source: 2 x AAA 1.5v battery

HIGH PRECISION CHARGING SCALE



CE

Indi Fricosion chanding Scale			
ercost	•	h precision charging scale accurately measures small cans of ise charge. Small cans of refrigerant attach directly to the scal	
	 Specially desig 36" hose with Built-in check Slim design for 	, ,	
	Large LCD disp	ypad for easy operation play accurately shows units in grams or ounces	
	Auto zero	weighing function	
THIS SIDE UP T Proj 20 grundenm 780 Broj 20 grundenm 780 Sittin 12 LOO Sec-SLSYD Beginn Verwalls OOL HHY SLBHY	 Resolution: 0.0 Accuracy: ≤ ± Dimensions: 5. Power source: Auto-off: after 	ounces (5000 grams) 135 ounces (1 gram))
AFFICIERANT CARE AFFICIERANT CARE CAH10 CAH10	98201-A	High Precision Charging Scale packaged in a Mastercool labeled cardboard box	
0098	98202-A	High Precision Charging Scale with storage for a 14 oz. refrigerant cylinder (sold separately) packaged in a custom molded plastic case	
and the second s	98202-A-600	High Precision Charging Scale packaged in a custom molded plastic case with a can of R600a refrigerant (14.8 oz (420 g))) Nur The State of St
	98202-A-290	High Precision Charging Scale packaged in a custom molded plastic case with a can of R290 refrigerant (13 oz (370 g))	R2R2 R2R2 PC: Naster: Nastered Mastered 190 PC: Nastered Nastered 190 PC: Nastered Nastered Nastered 190 PC: Nastered 1
	91050-600-12	R600a Refrigerant Cylinder (box of 12) 14.8 oz (420 g) can of R600a refrigerant	HIOPAN CAN BE CAN BE THE CAN BE T
	91050-290-12	R290 Refrigerant Cylinder (box of 12) 13 oz (370 g) can of R290 refrigerant	91050-290-12

DOT-APPROVED RECOVERY CYLINDERS

Features:

- Powder coated cylinder for high gloss, durable finish
- · Pre-charged cylinder provides a clean, dry interior
- 3/4" NPT opening accepts 80% fill float switch shut-off device
- Reusable and conforms to DOT-4BA400 specs and ARI guidelines

30 LB. DOT-APPROVED RECOVERY CYLINDERS



· Storage and transport of recovered refrigerant gases • Y-valve for liquid/vapor

· Collar design for ease of handling

- AUS Approved and TC Canadian Approved
- Relief valve pressure: 600 PSI / 4.1 MPa • Size (w x h): 9.125" x 17.52" • Nominal water capacity: >26.2 LB / 11.9 L • Standard spec.: DOT - 4BA400 • Service pressure: 400 PSI / 2.7 MPa
- Tare weight: 17.99 lb

Size (w x h): 12.25" x 18.78"

- ' MPa

 Air tightness test pressure: 400 PSI / 2.3 		Air tightness	test	pressure:	400	PSI /	2.7
--	--	---------------	------	-----------	-----	-------	-----

• Relief valve pressure: 600 PSI / 4.1 MPa

٠	Tank test pre	ssure: 800	PSI /	/ 5.5 MI
	A · · · · ·			

•	Tank	(test	pressure:	800 PSI /	/ 5.5	MPa

 Body 	material: HP295
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Model	62010 without float switch	62011 with float switch	62012 with float switch & 1/4" FL-M NCG Port	64010 without float switch	67010 with float switch	67011 with float switch	
Connection	1/4" FL-M (7/16-20)			1/2" ACME			
Color	yellow/gray			blu	e	yellow/blue	

50 LB. DOT-APPROVED RECOVERY CYLINDERS



Standard spec.: DOT - 4BA400 Sarvisa pressure: 400 DSI / 2.7 MPa	• Nominal water capacity: >47.7 LB / 21.6 L
 Service pressure: 400 PSI / 2.7 MPa 	 Tank test pressure: 800 PSI / 5.5 MPa
 Tare weight: 28.71 lb 	Air tightness test pressure: 400 PSI / 2.7 MPa
 Body material: HP325 or HP345 	

Model	63010 without float switch	65010 with float switch	66010 without float switch	66011 with float switch	66012 with float switch & 1/4" FL-M NCG Port
Connection	1/4" FL-M	(7/16-20)		1/2" ACN	1E
Color	yellow	//gray		yellow/gr	ay

100 LB. DOT-APPROVED RECOVERY CYLINDERS



 Size (w x h): 11.25" x 31.81" Standard spec.: DOT - 4BW400 Service pressure: 400 PSI / 2.7 MPa Tare weight: 50.5 lb Body material: HP325 	 Relief valve pressure: 600 PSI / 4.1 MPa Nominal water capacity: >92.5 LB / 41.9 Tank test pressure: 800 PSI / 5.5 MPa Air tightness test pressure: >87 PSI / 0.6 M

Iominal water capacity: >92.5 LB / 41.9 L ank test pressure: 800 PSI / 5.5 MPa

- ir tightness test pressure: >87 PSI / 0.6 MPa

Model	68010 without float switch
Connection	1/4" FL-M (7/16-20)
Color	yellow/gray

ENVIRO TANK (REFILLABLE CYLINDER)

30 LB. REFILLABLE CYLINDER



	bec.: DOT - 4BA400 ssure: 400 PSI / 2.7 MPa t: 19.9 lb	 Relief valve pressure: 600 PSI / 4.1 MPa Nominal water capacity: >30 LB / 13.6 L Tank test pressure: 800 PSI / 5.5 MPa Air tightness test pressure: >87 PSI / 0.6 MPa 	
Model		62020-WX	
Connection		1/4" FL-M (7/16-20)	
Color		white	

* available only for EPA registered chemical/reclaim companies



69LEGEND-HFC LEGEND SERIES™ HFC REFRIGERANT ANALYZER





DIAGNOSTIC REFRIGERANT ANALYZER FOR MULTIPLE HVAC AND REFRIGERATION APPLICATIONS

Clean air calibration is all you need to analyze your refrigerant in less than 2 minutes. No matter the application, the Legend HFC Refrigerant Analyzer is capable of measuring vapor or liquid refrigerant to confirm purity while detecting the presence of other harmful refrigerants or air.

- · Only mobile device to provide a high level of accuracy for measured refrigerants
- Accurate results within minutes
- Accuracy of ±1% of single component refrigerants
- · Blend analysis for measured R400 series refrigerants
- Vapor or liquid sampling
- Store test data on external USB drive
- · Internal thermal printer
- · Remote software updates for new refrigerants
- Supports 10 languages for global operations
- Low flow indications to alarm user if flow restrictor becomes clogged

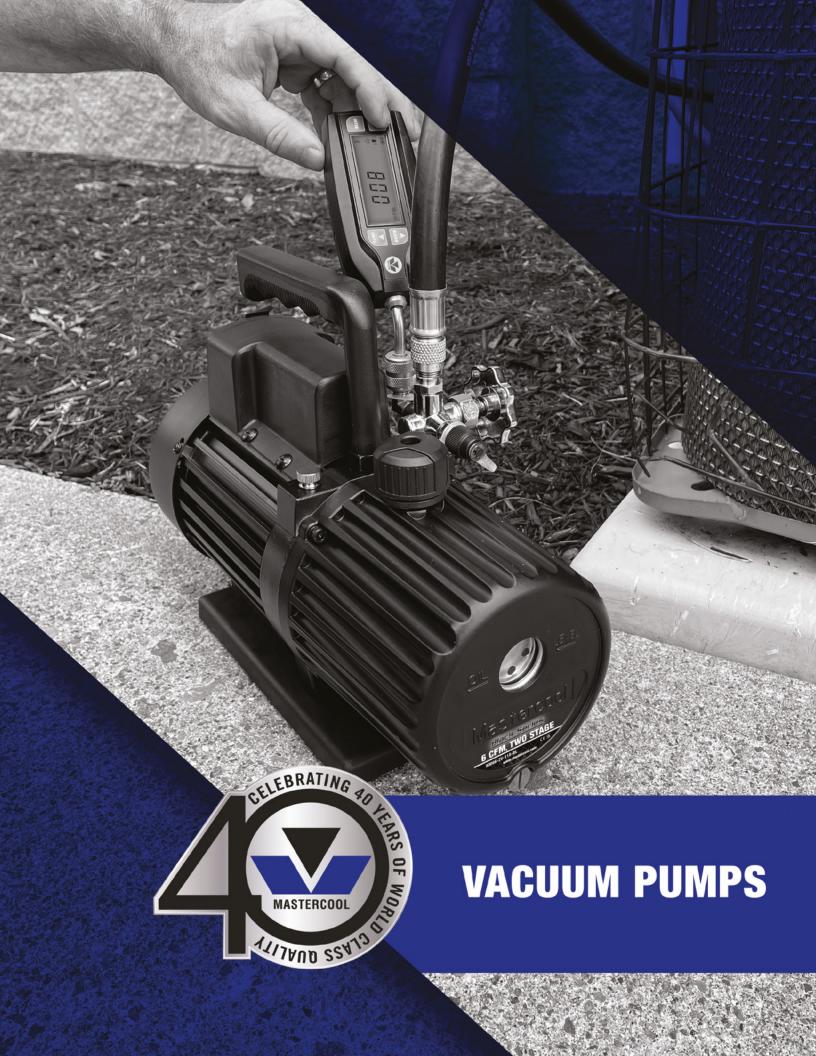
LEGEND HFC IS THE ANSWER!

Confirming a refrigerant is the right gas before service or use will ensure all systems effectively operate while protecting the customer and the technician. The use of a refrigerant analyzer creates a cleaner recovery process and reduces the amount of mixed gas recovered. Reducing mix gas recovery will ultimately cut

down on the amount of refrigerant that must be destroyed which helps improve the industries ecological footprint. A refrigerant analyzer is a valuable tool to safeguard users and equipment, while promoting recycling and reuse to protect the environment. The Legend HFC is the most advanced refrigerant analyzer in the market and provides the latest in NDIR technology to support refrigerant testing before use. Reduce the uncertainty and analyze every refrigerant before handling so you can ensure you are safeguarding yourself, your equipment, and the environment to certify the job is done right.

SPECIFICATIONS:

- Weight: Less than 10 lbs.
- · Analyzed Refrigerants: R22, R32, R134a, R404A, R407C, R410A, Hydrocarbons (HC) and Air
- Identified Refrigerants: R12, R1234yf, R408A, R409A, R417A, R421A, R421B, R422A, R422B, R422C, R427A, Hydrocarbons
- Accuracy: ±1% of indicated gases or better
- Power Requirements: 12 VDC @ 2A via 110/220 VAC, 50 60 Hz Adapter
- · Approvals: CE, UL and CUL
- User Interface: Graphic Display, Soft Keys, Built in Printer
- · Sample Gas Extraction: Pressure from cylinder or system
- Temperature Range: 50 120°F (10 49°C)
- Humidity: 0 95% RH non-condensing
- Test Sample Size: 5 g per test
- Test Pressure: 30 psig 500 psig





VACUUM PUMPS

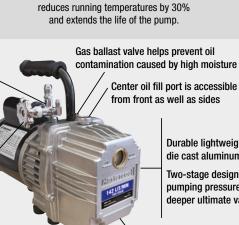
2 STAGE ELITE BALL BEARING DESIGN VACUUM PUMPS

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.



Manifold valve isolates pump from the system when testing for leaks. Includes three inlet ports -1/4", 3/8" SAE and 1/2" ACME on 5 and 7.5 CFM models

Internal check valve stops oil blowout in case of accidental power loss



BALL BEARING CARTRIDGE DESIGN

Center oil fill port is accessible

from front as well as sides

Durable lightweight die cast aluminum housing

Two-stage design allows lower pumping pressure resulting in deeper ultimate vacuum

Oil drain valve positioned at bottom of oil reservoir assures maximum drainage





5 CFM VACUUM PUMP



MODEL	90065
NO. OF STAGES	2
FREE AIR DISPLACEMENT	5 CFM
ULTIMATE VACUUM	25 Microns
MOTOR	1/3 HP
PUMP SPEED	1425 RPM 1725 RPM
ELECTRICAL SPECS	110 V / 60 HZ
WEIGHT	29 lbs
DIMENSIONS	14.5 x 6 x 11 x 9.5"

7 CFM VACUUM PUMP



	USA V
MODEL	90067
NO. OF STAGES	2
FREE AIR DISPLACEMENT	7.5 CFM
ULTIMATE VACUUM	25 Microns
MOTOR	1/2 HP
PUMP SPEED	1425 RPM 1725 RPM
ELECTRICAL SPECS	110 V / 60 HZ
WEIGHT	35.5 lbs
DIMENSIONS	16 x 6 x 11 x 9.5"



CE

2 STAGE <u>Black Series</u> VACUUM PUMPS

Mastercool's "Black Series" vacuum pumps are durable and time tested to stand up to the most grueling conditions and will provide years of reliable service. This vacuum pump provides the power and mobility necessary for a wide variety of applications.

- Refined cartridge machining process creates an improved surface finish extending the longevity of the pump life
- Expanded internal oil path creates less friction and ultimately less heat
- Upgraded seals insure maximum vacuum
- U.S. designed and tested





MODEL	STAGES	FREE AIR DISPLACEMENT	ULTIMATE VACUUM	MOTOR	PUMP Speed	ELECTRICAL SPECS	POWER	WEIGHT	DIMENSIONS IN CM
90063-2V-110-BL	2	3 CFM	15 Microns	1/3 HP	1720 RPM	110/220 V, 50/60 HZ	110 V Cable (US)	16 lbs	27 x 15 x 25
90066-2V-110-BL	2	6 CFM	15 Microns	1/2 HP	1720 RPM	110/220 V, 50/60 HZ	110 V Cable (US)	25 lbs	37.9 x 16.7 x 27.5
90068-2V-110-BL	2	8 CFM	15 Microns	3/4 HP	1720 RPM	110/220 V, 50/60 HZ	110 V Cable (US)	34.5 lbs	38 x 18 x 27
90612-2V-110-BL	2	12 CFM	15 Microns	1 HP	1720 RPM	110/220 V, 50/60 HZ	110 V Cable (US)	35.5 lbs	39 x 18 x 27

* PLEASE NOTE: The micron readings on all vacuum pumps represent optimal laboratory conditions. Field conditions may vary from these readings.



VACUUM PUMPS

SINGLE STAGE Black Series VACUUM PUMPS CE ELECTRICAL DIMENSIONS FREE AIR ULTIMATE PUMP MOTOR POWER WEIGHT MODEL STAGES DISPLACEMENT VACUUM SPECS SPEED IN CM 90059-BL 1 1.8 CFM 1/4 HP 1720 RPM 110/120 V, 60 HZ 110 V Cable (US) 14 lbs 27.5 x 12.5 x 25 80 Microns 3 CFM 90062-BL 1 80 Microns 1/4 HP 1720 RPM 110/120 V, 60 HZ 110 V Cable (US) 14 lbs 27.5 x 12.5 x 25 90066-BL 6 CFM 1/3 HP 1720 RPM 110/120 V, 60 HZ 110 V Cable (US) 1 80 Microns 20.5 lbs 35 x 13.2 x 26 Approved for all Air Conditioning Refrigerants including A2L and A3 Flammable Refrigerants <SPARK FREE> 6 CFM 80 Microns 1/3 HP 1720 RPM 110/120 V, 60 HZ 110 V Cable (US) 20.5 lbs 35 x 13.2 x 26 1 90066-BL-SF

SERVICE INFORMATION

	OIL CAPACITY	REPLACEMENT CARTRIDGE	SEAL SERVICE KIT
90065	18 oz	90165-R	90062-11-SEAL
90067	24 oz	90167-R	90062-11-SEAL
90063-2V-110-BL	8.5 oz	-	-
90066-2V-110-BL	15 oz	90166-B	-
90068-2V-110-BL	19 oz	90168-B	-
90612-2V-110-BL	18 oz	90112-B	-
90059-BL, 90062-BL	12 oz	-	-
90066-BL, 90066-BL-SF	18 oz	-	-

VACUUM PUMP OIL



90010-6	(Six) - 295 ml / 10 oz Bottles (90058, 90063-2V-BL)
90016-6	(Six) - 450 ml / 16 oz Bottles (90059-BL, 90062-BL)
90018-6	(Six) - 531 ml / 18 oz Bottles (90065, 90066-2V-BL, 90612-2V-BL, 90066-BL, 90066-BL-SF)
90024-6	(Six) - 708 ml / 24 oz Bottles (90067, 90068-2V-BL)
90032-6	(Six) - 946 ml / 32 oz Bottles
90128-4	(Four) - 3.7 liter / 1 gallon Bottles

EXHAUST HOSE ASSEMBLY FOR VACUUM PUMP



Mastercool's exhaust hose assembly is to be utilized with all Mastercool "Black Series" vacuum pumps. When working in tight quarters with minimal ventilation, the Mastercool exhaust hose assembly can be used to vent exhaust fumes by redirecting them to an exterior location. This assembly may be used with all vacuum pumps but is highly recommended when servicing systems running on A2L and A3 flammable refrigerants. **SPECIFICATIONS:**

- Clear plastic hose: Material: PVC / Inside diameter: 16 mm / Outside diameter: 19 mm / Length: 5 m
- Clamp Material: stainless steel
- Exhaust fitting for vacuum pump connection

90066-EX-HOSE Exhaust Hose Assembly for 1.8 CFM, 3 CFM and 6 CFM Vacuum Pumps

NEW



18 VOLT CORDLESS, 1.5 CFM, 2 STAGE VACUUM PUMP

 Reinforced base provides extreme shock resistance Air coded motor design allows for operation under high temperature conditions Air coded motor design allows for operation under high temperature conditions Accessible oil drain port & sight glass make both oil maintenance and accuracy easy Built-in device eliminates oil mist and an oil-gas separator at the air exhaust outlet prevents oil contamination in the air exhaust Built-in device eliminates oil mist and an oil-gas separator at the air exhaust outlet prevents oil contamination in the air exhaust Built-in device eliminates oil mist and an oil-gas separator at the air exhaust outlet prevents oil contamination in the air exhaust Built-in device eliminates oil mist and an oil-gas separator at the air exhaust outlet prevents oil contamination in the air exhaust Built-in device eliminates oil mist and an oil-gas separator at the air exhaust outlet prevents oil contamination in the air exhaust Built-in device eliminates oil mist and an oil-gas separator at the air exhaust outlet prevents oil contamination in the air exhaust Built-in device eliminates oil mist and an oil-gas separator at the air exhaust outlet prevents oil contamination in the air exhaust Built-in device eliminates oil mist and an oil-gas separator at the air exhaust outlet prevents oil contamination in the air exhaust Built-in device eliminates oil mist and an oil-gas separator at the air exhaust outlet prevents oil contamination in the air exhaust Built-in device eliminates oil mist and an oil-gas separator at the air exhaust outlet prevents oil contamination in the air exhaust Built-in device eliminates oil mist and an oil-gas separator at the air exhaust outlet prevents oil contamination in the air exhaust Built-in device eliminates oil mist and an oil-gas separator at the air exhaust outle			 Sure-grip nandle, e 	ergonomically designed for superior comfort and portability		
 Air cooled motor design allows for operation under high temperature conditions Pum runs with extremely high ultimate vacuum and low noise Accessible oil drain port & signt glass make both oil maintenance and accuracy easy Built-in device eliminates oil mist and an oil-gas separator at the air exhaust outlet prevents oil contamination in the air exhaust Built-in device eliminates oil mist and an oil-gas separator at the air exhaust outlet prevents oil contamination in the air exhaust Built-in device eliminates oil mist and an oil-gas separator at the air exhaust outlet prevents oil contamination in the air exhaust Built-in device eliminates oil mist and an oil-gas separator at the air exhaust outlet prevents oil contamination in the air exhaust Built-in device eliminates oil mist and an oil-gas separator at the air exhaust outlet prevents oil contamination in the air exhaust Built-in device eliminates oil mist and an oil-gas separator at the air exhaust outlet prevents oil contamination in the air exhaust Built-in device eliminates oil mist and an oil-gas separator at the air exhaust outlet prevents oil contamination in the air exhaust Built-in device eliminates oil mist and an oil-gas separator at the air exhaust outlet prevents oil contamination in the air exhaust Built-in device eliminates oil mist and an oil-gas separator at the air exhaust outlet prevents oil contamination in the air exhaust Built-in device eliminates oil mist and an oil-gas separator at the air exhaust outlet prevents oil contamination in the air exhaust Built-in device eliminates oil mist and an oil-gas separator at the air exhaust Built-in device eliminates oil mist and an oil-gas separator at the air exhaust Built-in BV 5006 bHz, 73 W Buttery Charger Built-10 240 V, 50-60 bHz, 73 W Buttery Char	II.					
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 Built-in device eliminates oil mist and an oil-gas separator at the air exhaust outlet prevents oil contamination in the air				, ,		
SPECIFICATIONS:						
 No. of stages: 2 Free air displacement: 1.5 CFM Motor CD R4V, 90 W Ultimate vacuum: 15 microns/3 Pa Oil capacity: 3.5 oz. Oil capacity: 3.5 oz. Oil capacity: 3.5 oz. Dimensions without battery: 9.9 x 3.7 x 6.1" Net weight: 7.9 lb Rechargeable Battery Li-ion 18 V 5.0 Ah Battery Charger Ointo 2.40V, 50-60 Hz, 73 W Output: 18 W10.44V 3A Mastercool does not recommend this pump be used with any other battery Mostercool does not recommend this pump be used with any other battery Mostercool does not recommend this pump be used with any other battery Mostercool does not recommend this pump be used with any other battery Mostercool does not recommend this pump be used with any other battery Mostercool does not recommend this pump be used with any other battery Mostercool does not recommend this pump be used with any other battery Mostercool does not recommend this pump be used with any other battery Mostercool does not recommend this pump be used with any other battery Mostercool does not recommend this pump be used with any other battery Mostercool does not recommend this pump be used with any other battery Mostercool does not recommend this pump be used with any other battery Mostercool does not recommend this pump be used with any other battery Moster charger and 3.5 oz of oil Moster charger and 3.5 oz of oil Moster charger and 3.5 oz of oil Moster chargeable Battery and Adapter sleeve Moster chargeable Battery Moster chargeable Battery Moster chargeable Battery Moster cool Rechargeable Battery <l< td=""><td></td><td>O Manterine Limite</td><td>in the air exhaust</td><td></td></l<>		O Manterine Limite	in the air exhaust			
 No. of stages: 2 Free air displacement: 1.5 CFM Motor CD R4V, 90 W Ultimate vacuum: 15 microns/3 Pa Oil capacity: 3.5 oz. Oil capacity: 3.5 oz. Oil capacity: 3.5 oz. Dimensions without battery: 9.9 x 3.7 x 6.1" Net weight: 7.9 lb Rechargeable Battery Li-ion 18 V 5.0 Ah Battery Charger Ointo 2.40V, 50-60 Hz, 73 W Output: 18 W10.44V 3A Mastercool does not recommend this pump be used with any other battery Mostercool does not recommend this pump be used with any other battery Mostercool does not recommend this pump be used with any other battery Mostercool does not recommend this pump be used with any other battery Mostercool does not recommend this pump be used with any other battery Mostercool does not recommend this pump be used with any other battery Mostercool does not recommend this pump be used with any other battery Mostercool does not recommend this pump be used with any other battery Mostercool does not recommend this pump be used with any other battery Mostercool does not recommend this pump be used with any other battery Mostercool does not recommend this pump be used with any other battery Mostercool does not recommend this pump be used with any other battery Mostercool does not recommend this pump be used with any other battery Moster charger and 3.5 oz of oil Moster charger and 3.5 oz of oil Moster charger and 3.5 oz of oil Moster chargeable Battery and Adapter sleeve Moster chargeable Battery Moster chargeable Battery Moster chargeable Battery Moster cool Rechargeable Battery <l< td=""><td></td><td>II MILLIDA (MARCH</td><td colspan="3">SPECIFICATIONS</td></l<>		II MILLIDA (MARCH	SPECIFICATIONS			
 Free air displacement: 1.5 CFM Motor: CC 18V, 90 W Ulticate vacuum: 15 microns/3 Pa Olli capacity: 3.5 oz. Dimensions without battery: 9.9 x 3.7 x 6.1" Net weight: 7.9 b Rechargeable Battery Li-ion 18 V 5.0 Ah Battery Charger Input 100-240 V, 50-60 Hz, 73 W Output: 18V/14.4V 3A * Mastercool does not recommend this pump be used with any other battery 90058-ALT-5A Complete Kit includes: 18 V cordless vacuum pump, 1/4" SAE port and 1/2" ACME adapter sleeve, standard 110V battery charger and 3.5 oz of oil 90058-ALT-5A Y cordless Vacuum Pump, 1/4" SAE port, 1/2" ACME adapter and 3.5 oz of oil 90058-BAT-5A Mastercool Rechargeable Battery 90058-BAT-5A Mastercool Battery Charger, 110V standard US cable 						
 Motor: DC 18V, 90 W Ultimate vacuum: 15 microns/3 Pa Oil capacity: 3.5 oz. Dimensions without battery: 9.9 x 3.7 x 6.1" Net weight: 7.9 lb Rechargeable Battery Li-ion 18 V 5.0 Ah Battery Charger Inductive Control of the start of the start			•	ent: 1.5 CFM		
90058-AAUT • Oil capacity: 3.5 oz. • Dimensions without battery: 9.9 x 3.7 x 6.1" • Net weight: 7.9 lb Rechargeable Battery • Li-ion 18 V 5.0 Ah Battery Charger • Input 100-240 V, 50-60 Hz, 73 W • Output: 18V/14.4V 3A • Mastercool does not recommend this pump be used with any other battery • Output: 18V/14.4V 3A • Mastercool does not recommend this pump be used with any other battery • 0058-AUT-5A Complete Kit includes: 18 V cordless vacuum pump, 1/4" SAE port and 1/2" ACME adapter sleeve, standard 110V battery charger and 3.5 oz of oil 90058-AAUT 18 V Cordless Vacuum Pump, 1/4" SAE port, 1/2" ACME adapter and 3.5 oz of oil 90058-BAT-5A Mastercool Rechargeable Battery 90058-BAT-5A Mastercool Rechargeable Battery 90058-CH Mastercool Battery Charger, 110V standard US cable						
 Of intensions without battery: 9.9 x 3.7 x 6.1" Of imensions without battery: 9.9 x 3.7 x 6.1" Net weight: 7.9 lb Rechargeable Battery Li-ion 18 V 5.0 Ah Battery Charger Input 100-240 V, 50-60 Hz, 73 W Output: 18V/14.4V 3A * Mastercool does not recommend this pump be used with any other battery 90058-AUT-5A Ootse-AAUT 18 V Cordless Vacuum Pump, 1/4" SAE port, 1/2" ACME adapter and 3.5 oz of oil 90058-BAT-5A 90058-BAT-5A 90058-BAT-5A 90058-BAT-5A 90058-CH Mastercool Battery Charger, 110V standard US cable 			• Ultimate vacuum: 1	15 microns/3 Pa		
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Rechargeable Battery Li-ion 18 V 5.0 Ah Battery Charger Input 100-240 V, 50-60 Hz, 73 W Output: 18V/14.4V 3A * Mastercool does not recommend this pump be used with any other battery 9058-AUT-5A Complete Kit includes: 18 V cordless vacuum pump, 1/4" SAE port and 1/2" ACME adapter, Mastercool designed rechargeable battery, Mastercool adapter sleeve, standard 110V battery charger and 3.5 oz of oil 9058-BAT-5A Mastercool Rechargeable Battery 9058-CH Mastercool Battery Charger, 110V standard US cable			Dimensions without	ıt battery: 9.9 x 3.7 x 6.1"		
 Li-ion 18 V 5.0 Ah Battery Charger Input 100-240 V, 50-60 Hz, 73 W Output: 18V/14.4V 3A Mastercool does not recommend this pump be used with any other battery 90058-AUT-5A Complete Kit includes: 18 V cordless vacuum pump, 1/4" SAE port and 1/2" ACME adapter, Mastercool designed rechargeable battery, Mastercool adapter sleeve, standard 110V battery charger and 3.5 oz of oil 90058-AAUT 18 V Cordless Vacuum Pump, 1/4" SAE port, 1/2" ACME adapter and 3.5 oz of oil 90058-BAT-KT-5A Mastercool Rechargeable Battery and Adapter Sleeve 90058-BAT-SA 90058-BAT-SA Mastercool Battery Charger, 110V standard US cable 						
 Li-ion 18 V 5.0 Ah Battery Charger Input 100-240 V, 50-60 Hz, 73 W Output: 18V/14.4V 3A Mastercool does not recommend this pump be used with any other battery 90058-AUT-5A Complete Kit includes: 18 V cordless vacuum pump, 1/4" SAE port and 1/2" ACME adapter, Mastercool designed rechargeable battery, Mastercool adapter sleeve, standard 110V battery charger and 3.5 oz of oil 90058-AAUT 18 V Cordless Vacuum Pump, 1/4" SAE port, 1/2" ACME adapter and 3.5 oz of oil 90058-BAT-KT-5A Mastercool Rechargeable Battery and Adapter Sleeve 90058-BAT-SA 90058-BAT-SA Mastercool Battery Charger, 110V standard US cable 			Rechargeable Batter	V		
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 Input 100-240 V, 50-60 Hz, 73 W Output: 18V/14.4V 3A Mastercool does not recommend this pump be used with any other battery 90058-AUT-5A Complete Kit includes: 18 V cordless vacuum pump, 1/4" SAE port and 1/2" ACME adapter, Mastercool designed rechargeable battery, Mastercool adapter sleeve, standard 110V battery charger and 3.5 oz of oil 90058-ALUT 18 V Cordless Vacuum Pump, 1/4" SAE port, 1/2" ACME adapter and 3.5 oz of oil 90058-BAT-KT-5A 90058-BAT-KT-5A 90058-BAT-KT-5A 90058-BAT-KT-5A 90058-BAT-SA 90058-BAT-SA 90058-BAT-SA 90058-BAT-SA Mastercool Battery Charger, 110V standard US cable 		C INTERNET	Rattery Charner			
 • Output: 18V/14.4V 3A • Mastercool does not recommend this pump be used with any other battery 90058-AUT-5A • Output: 18V/14.4V 3A • Mastercool does not recommend this pump be used with any other battery 90058-AUT-5A • Output: 18V/14.4V 3A • Mastercool does not recommend this pump be used with any other battery 90058-AUT-5A • Output: 18V/14.4V 3A • Mastercool does not recommend this pump be used with any other battery 90058-AUT-5A • Output: 18V/14.4V 3A • Mastercool does not recommend this pump be used with any other battery 90058-AUT-5A • Complete Kit includes: 18 V cordless vacuum pump, 1/4" SAE port and 1/2" ACME adapter sleeve, standard 110V battery charger and 3.5 oz of oil 90058-BAT-KT-5A 90058-BAT-KT-5A 90058-BAT-SA 90058-BAT-SA 90058-CH Mastercool Battery Charger, 110V standard US cable 	JEA 0	2100	, ,			
* Mastercool does not recommend this pump be used with any other battery 90058-AUT-5A Complete Kit includes: 18 V cordless vacuum pump, 1/4" SAE port and 1/2" ACME adapter, Mastercool designed rechargeable battery, Mastercool adapter sleeve, standard 110V battery charger and 3.5 oz of oil 90058-A-AUT 18 V Cordless Vacuum Pump, 1/4" SAE port, 1/2" ACME adapter and 3.5 oz of oil 90058-BAT-KT-5A Mastercool Rechargeable Battery 90058-BAT-KT-5A Mastercool Rechargeable Battery 90058-BAT-SA 90058-CH Mastercool Battery Charger, 110V standard US cable				•		
90058-CH 90058-AUT-5A 90058-AUT-5A 90058-AUT-5A 90058-AUT-5A 90058-AUT-5A 90058-AUT-5A 90058-AUT-5A 90058-AUT-5A 90058-AUT-5A 90058-AUT-5A 90058-AUT-5A 90058-BAT-KT-5A 90058-BAT-KT-5A 90058-BAT-KT-5A 90058-BAT-KT-5A 90058-BAT-SA 90058-BAT-SA 90058-CH	Statement of the local division in which the local division in which the local division is not the local division of the local division in which the local division is not the local division of the local division in the local dinted dintervision in the local division in the local divisi	N)	•			
90058-AUT-5A Complete Kit includes: 18 V cordless vacuum pump, 1/4" SAE port and 1/2" ACME adapter, Mastercool designed rechargeable battery, Mastercool adapter sleeve, standard 110V battery charger and 3.5 oz of oil 90058-AUT-5A 90058-A-AUT 18 V Cordless Vacuum Pump, 1/4" SAE port, 1/2" ACME adapter and 3.5 oz of oil 90058-BAT-5A 90058-BAT-KT-5A 90058-BAT-5A Mastercool Rechargeable Battery and Adapter Sleeve 90058-BAT-5A Mastercool Rechargeable Battery 90058-CH Mastercool Battery Charger, 110V standard US cable		00059 CH	mastercoor does no	a recommend uns pump be used with any other battery		
(without battery and adapter sleeve) 90058-BAT-KT-5A 90058-BAT-KT-5A 90058-BAT-SA 90058-BAT-SA 90058-CH 90058-CH 90058-CH 90058-CH		90030-Ch	90058-AUT-5A	adapter, Mastercool designed rechargeable battery, Mastercool adapter sleeve, standard		
90058-BAT-5A 90058-SL-MC 90058-SL-MC 90058-CH Mastercool Battery Charger, 110V standard US cable			90058-A-AUT			
90058-BAT-5A 90058-SL-MC 90058-CH Mastercool Battery Charger, 110V standard US cable	5 AN INCLUSION		90058-BAT-KT-5A	Mastercool Rechargeable Battery and Adapter Sleeve		
90058-BAT-5A 90058-SL-MC	AND STREET		90058-BAT-5A	Mastercool Rechargeable Battery		
			90058-CH	Mastercool Battery Charger, 110V standard US cable		
	90030-041-34	90030-9F-MP	90058-SL-MC	Adapter Sleeve to allow for use with Mastercool batteries		

ANALOG VACUUM GAUGE

98066 98065 98067-R	readings every tim • Large, 80 mm g • Indicator needle You can see if th • Barometric press conditions SPECIFICATIONS • Gauge size: 80 f • Units: inhg 30-0 • Atmospheric press	-
	98065	Analog vacuum gauge with 1/8" NPT male thread fitting Allows for mounting directly to manifold block
	98066	Analog vacuum gauge with 1/4" flare female swivel nut connection Allows for direct attachment to system or vacuum pump
	98067-R	Analog vacuum gauge with control valve 1/4" flare female x 1/4" flare male Allows for attachment to all connections and isolated leak testing



DIGITAL VACUUM GAUGES

98063-BT DIGITAL VACUUM GAUGE WITH BLUETOOTH® WIRELESS TECHNOLOGY







FEATURES:

- State-of-the-art glass beaded thermistor and temperature compensation
- · Sintered bronze inlet filter to protect the sensor
- . 5-digit LCD screen features an ultra-vibrant blue back-light allowing for easy readability
- · Chemical resistant sensor for ease of cleaning
- . Low battery icon displayed on the LCD indicates that the batteries are low and need to be replaced
- Calibration can be performed while in the field environment
- Audio and visual alarm when vacuum goes below a user adjustable set point
- Bluetooth® wireless technology provides communication to hand-held smart devices through the Mastercool Connect app

SPECIFICATIONS:

- Sensor: glass bead thermistor with temperature compensation
- Connection fitting: 1/4 SAE F-FL with stem depressor
- Operating temperature: 32 to 120°F (0 to 45°C)
- Vacuum units: Micron, Torr, mTorr, mmHg, mBar, Pa
- Range: 20,000 to 1 micron
- Accuracy: ±10% of reading (from 10,000 to 100 microns)
- Proof pressure: 450 psi
- Auto-off: automatic after 10 minutes, blue back-light after 3 minutes
- Power: 2 AA batteries included
- Battery life: 100+ continuous hours (depending on back-light use)
- Weight: 0.3 lb (0.13 kg) without batteries, 0.5 lb (0.23 kg) with batteries
- Dimensions: 1.9" x 6.3" x 1.4" (50 mm x 160 mm x 36 mm)

Specifications for Bluetooth® wireless technology:

- 260' (80m) maximum line-of-sight range
- Bluetooth[®] 4.2 and 5

DOWNLOAD OUR APP





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Optional Accessories

99333 1/4 FL-M x 1/4 FL-M x 1/4 FL-F Tee

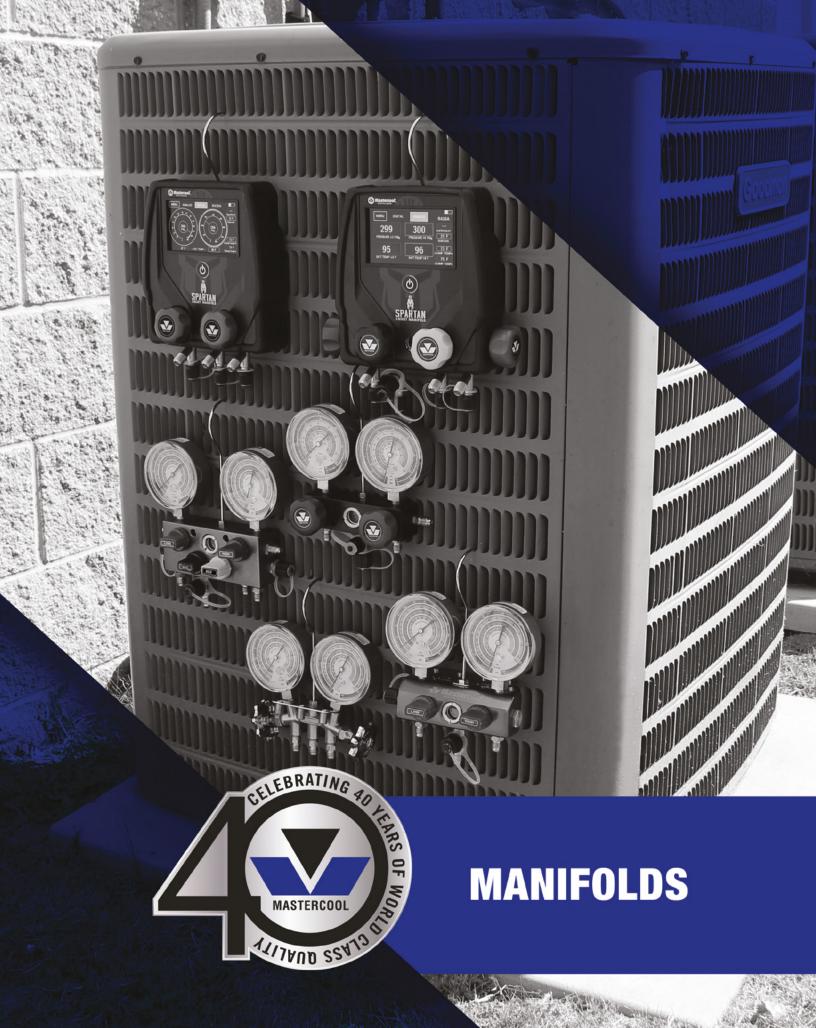
DIGITAL VACUUM GAUGE



SPECIFICATIONS:

- Response time: 250 mSec.
- Sensor cable: spiral cable extended to 6.5 feet (2.6 meter)
- Sensor: thermocouple sensor
- · Connection fitting: 1/4" flare female adapter
- Operating temperature: 32 to 120°F (0 to 45°C)
- Power: 9V DC battery (AC/DC Adapter optional)
- · Battery life: 36 hours
- · Low battery indicator: special ICON on LCD
- Vacuum units: micron, Torr, mTorr, mmHg, mBar, Pa
- Range: 20,000 to 1 micron
- Accuracy range*: ATM-1000 microns: $\pm 10\%$ of reading, 1000 100 microns: $\pm 7\%$ of reading, 100 1 micron: $\pm 5\%$ of reading
- * Unit accuracy refers to sensor specifications and is based on optimal laboratory conditions. Field operations may greatly deviate from these levels.

98061	Digital Vacuum Gauge packaged in a blow molded case
98061-C	Digital Vacuum Gauge packaged in a clamshell
Optional Access	ories
98061-SENSOR	Replacement Sensor
99334-110	110 V AC/DC Adapter
99333	1/4 FL-M x 1/4 FL-M x 1/4 FL-F Tee





JOIN THE SPARTAN REVOLUTION AND MOVE WITH US INTO THE FUTURE OF A/C DIAGNOSTICS AND SERVICE





4.3" Color LCD provides easy to read diagnostic information

Responsive Touchscreen

enables navigation with a quick tap of the finger

Bluetooth[®] Wireless Technology

allows information to be viewed on compatible hand-held smart devices via the Mastercool Connect app



Analog Dashboard

MENU DIGITAL ANALOG R410A 299 PRESSURE LO PSIG 95 SAT.TEMP LO F 96 SAT.TEMP H F 75 F CLAMP TEMPL

Digital Dashboard

MENU	UNITS		
PRESSURE:	TEMP:	VACUUM:	
PSIg	F	Micron	
Bar	C	mBar	
MPa		KPa	
KPa		Pa	
Kgcm2		Torr	

Units Dashboard

FEATURES:

- CLASS 1.0 GAUGE provides accurate, high quality readings
- 4.3" COLOR TOUCHSCREEN to navigate with a quick slide of the finger
- PREMIUM BUILT IN VACUUM SENSOR with a resolution down to 1 micron
- DISPLAYS PRESSURE, VACUUM, TEMPERATURE, and will automatically calculate superheat and subcool temperatures
- OVER 60 pre-programmed refrigerants included (see www.mastercool.com for complete list)
- BLUETOOTH WIRELESS TECHNOLOGY provides communication with the Mastercool Connect app to allow for full mobility as activity can be easily viewed on all compatible hand-held devices
- LOW BATTERY INDICATOR on the LCD shows when battery needs charging
- RECORD AND STORE UP TO 36 HOURS OF DATA to the manifold memory
- OPTIONAL PREMIUM TEMPERATURE CLAMP with K-type connector
- AUTO-OFF AFTER 30 MINUTES of inactivity helps to conserve battery life
- PRESSURE LEAK TEST FUNCTION displays delta for both vacuum and positive pressure measurements
- EASILY SWITCH BETWEEN DIGITAL AND ANALOG depictions of pressure and temperature
- SIMPLE CALIBRATION for ultimate utility

SPECIFICATIONS:

- Gauge: Class 1.0
- Pressure Display: psi, bar, MPa, kg/cm²
- Temperature Display: °F or °C
- Deep Vacuum Display: micron, mBar, kPa, Pa, Torr, mTorr, mmHg
- Sensing Resolution: 1 psi (.07 bar, .007 MPa, .07 kg/cm²)
- Sensing Accuracy: ±1 psi or 1% of reading (whichever is greater)
- Working Pressure: 0 to 725 psi (50 bar, 5 MPa, 52 kg/cm²)
- Proof Pressure: 1000 psi (70 bar, 7 MPa, 70 kg/cm²) (Tolerable pressure without internal damage)
- Refrigerant Temperature Range: -40 to 200°F (-40 to 93°C)
- Operating Temperature: 32 to 122°F (0 to 45°C)
- Temperature Accuracy: ±1°F (±0.5°C) between 32 to 160°F (0 to 71°C)
- Storage Temperature: 10 to 120°F (-12 to 49°C) (non-condensing)
- Vacuum Sensor: Range 20,000 to 1 micron
- Connections: 1/4" m-flare and 3/8" m-fl (vacuum hose connection (4 way only))
- · Power: Li-Ion rechargeable battery (USB type C connector supplied)
- · Battery Life: 30-36 hours normal use (25-30 hours with bluetooth enabled)
- Auto-Off: After 30 minutes, sleep mode 4 minutes

Specifications for Bluetooth[®] wireless technology:

- 260' (80m) maximum line-of-sight range
- Bluetooth[®] 4.2 and 5







MASTERCOOL CONNECT APP

Simply download the free Mastercool Connect app to begin receiving and analyzing data from any nearby Mastercool Spartan Smart Manifold.



Use the Spartan Smart Manifold and the Mastercool Connect App to:

- Provide all of the manifold's data remotely. Sit back in a comfortable location and watch the system's performance.
- Leak test for both pressure and vacuum. Check on the test's progress while performing other tasks away from the unit.
- Datalog the system's performance for up to 36 hours. Save all of the values of the system's performance throughout the day and overnight without having to manually record them. The app gives you a way to download the information from the manifold and forward the file to your favorite spreadsheet program for analysis.



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SPARTAN SMART MANIFOLD with Bluetooth® Wireless Technology



Mastercool's SPARTAN series smart manifold with Bluetooth® wireless technology is equipped with a 4.3" color touchscreen LCD, allowing the user to navigate through all of the screens and options with a quick tap of their finger. Now with a built-in premium vacuum sensor and an accuracy down to 1 micron, there is no need for additional equipment to properly diagnose and service your A/C system.



99923-BT-2



SPARTAN 2 WAY SMART MANIFOLD HIGH PRESSURE HOSES WITH TEMPERATURE BLACK VACUUM USB TYPE C CONNECTOR STANDARD CLAMP HOSE FITTINGS 99923-BT --1 -99923-BT-2 2 1 --99926-BT-2 60" 2 _ 1 >>POPULAR<< 99927-BT-2 72" 2 1 -

SPARTAN 4 WAY SMART MANIFOLD

99943-BT	-	-	-	1
99943-BT-2	-	2	-	1
99946-BT-2 >> POPULAR<<	60"	2	1	1
99947-BT-2	72"	2	1	1





	52036	Ergonomic Clamp-on K Type Probe – 3 ft (1 m)
	52108	Ergonomic Clamp-on K Type Probe – 10 ft (3 m)
	99923-CPORT	USB Type C Cable
	90413	R410A Straight Adapter 1/4" FL-M x 5/16" Swivel-F
	90416	R410A 1/4" SAE x 5/16 SAE (1/2" - 20 UNF) Swivel/Angle Adapter Fitting
	90411	1/4" x 5/16" Flex Adapter with Ball Valve
	99333	1/4" FL-M x 1/4" FL-M x 1/4" FL-F Tee
	99923-PB	Plastic Molded Case
946-BT-2		

WWW.MASTERCOOL.COM

CALIFORNIA STATE

NEW

Black Series Wini-fold Compact 2-way aluminum manifold

COMPACT MANIFOLD, WITH FRONT MOUNTED HOSE HOLDERS, ALLOWS FOR PRECISE CALCULATIONS IN THE PALM OF YOUR HAND

Mastercool's Black Series Mini-fold compact 2-way digital manifold gauge set effortlessly performs pressure and temperature calculations and displays them on a large blue back-lit LCD display. Constructed of the finest materials and machined with precision to the highest quality standards, this compact manifold provides automatic shutoff, units conversion, over range alarm, max and min values and refrigerants selection providing for a powerful tool for the hard-working technician.



FEATURES:

- Compact black anodized aluminum block with matte chrome fittings offer an extremely portable solution to fit the needs of every busy technician
- Easily perform pressure/temperature calculations for up to 91 different refrigerants including R134a, R410a and R22 refrigerants
- Unit conversion between MPa, kPa, bar, psi, kg/m2, inHg
- Large 4-digit "blue" back-lit LCD display provides vibrant readings in even the darkest of environments
- Displays alarm indication when over range, celcius or fahrenheit designation and low battery warning directly on the LCD screen
- Large sight glass for quick visual refrigerant checks
- Easy to grip knobs

INCLUDED REFRIGERANTS:

R12, R1234yf, R1234ze, R124, R125, R134a, R141B, R142B, R413A, R152A, R21, R218, R22, R23, R290, R32, R401A, R401B, R401C, R402A, R402B, R403A, R403B, R404A, R406A, R407A, R407B, R407C, R407D, R407E, R407F, R408A, R409A, R409B, R410A, R410B, R412A, R413A, R414A, R414B, R415B, R416A, R417A, R419A, R420A, R421A, R421B, R422A, R422B, R422C, R422D, R423A, R427A, R437A, R438A, R441A, R442A, R443A, R444A, R448A, R449A, R449B, R450A, R452A, R452B, R454B, R454C, R455A, R470B, R471A, R472A, R50, R500, R502, R503, R504, R507A, R508A, R508B, R509A, R513A, R515B, R600, R600a, R601, R601a, R740, R744

- 1/4" SAE flare fittings
- Front facing hose holder

Packaged in a zippered carry case	
Compact Manifold with gauges only	94103
Compact Manifold with 3-60" high pressure hoses	94661
Compact Manifold with 3-60" high pressure hoses with ball valves	94261

SPECIFICATIONS:

- Pressure range: Low pressure range: -14.5 – 500 psi (-0.1 – 3.4 MPa) High pressure range: -14.5 – 800 psi (-0.1 – 5.5 MPa)
- Resolution: 0.5 psi
- Accuracy: +/-0.5% FS
- Measurement units: MPA, kPa, bar, psi, kg/cm2, inHg
- Temperature units: °C/°F
- Over range alarm: display -OL-
- Operating temperature: 14° to 60°F (-10°C to 60°C)
- Battery: CR2450
- · Battery life: approximately 6 months
- Sampling rate: 1 second
- · Low battery indication: icon on LCD
- LCD Display: 30 mm x 17 mm
- Blue back-light: auto-off after 6 seconds



ALUMINUM 3/8" BORE 4-WAY BALL VALVE MANIFOLD GAUGE SETS

Exclusive 3/8" Ball Valve Design

- Full 3/8" bore all the way through the block increases flow over the standard block designs
- Ball valve rotates 90° between two teflon washers requiring little effort to turn, even under pressure
- Opens and closes quickly with only a quarter turn
- Visual knob position quickly indicates if valves are opened or closed
- Gauges offered in a wide variety of selections
- Color coordinated gauges for multi-refrigerant recognition
- Includes three 1/4" SAE nylon barrier hoses with manual ball valves and one 3/8" SAE black vacuum hose in plastic box



R410A, R22 & R404A BALL VALVE MANIFOLD SET WITH LARGE 3 1/8 GAUGES (PSI/°F)

36" HOSES	96336	
60" HOSES	96361 >>POPULAR<<	
72" HOSES	96372	
96303	4-way ball valve manifold with 3 1/8" gauges only	
58501	410A, R22, & R404A (PSI/°F) low side (3 1/8") replacement gauge	
58803	R410A, R22, & R404A (PSI/°F) high side (3 1/8") replacement gauge	

R404A, R407C, R507A & R134a BALL VALVE MANIFOLD SET WITH LARGE 3 1/8" GAUGES (PSI/BAR/°F)

36" HOSES	96536	
60" HOSES	96561	
72" HOSES	96572	
96503	4-way ball valve manifold with 3 1/8" gauges only	
54350	R404A, R407C, R507A & R134a (PSI/°F) low side (3 1/8") replacement gauge	
54500	R404A, R407C, R507A & R134a (PSI/°F) high side (3 1/8") replacement gauge	

R410A & R32 BALL VALVE MANIFOLD SET WITH LARGE 3 1/8" GAUGES (PSI/°F)

36" HOSES	95536	
60" HOSES	95561	
95203	4-way ball valve manifold with 3 1/8" gauges only	
51501	R410A, R32 (PSI/°F) low side (3 1/8") replacement gauge	
51803	R410A, R32 (PSI/F) high side (3 1/8") replacement gauge	

* All gauges above are available with shock resistant gauge protectors - to order, add -G after the Part#

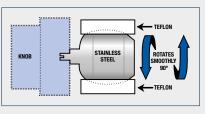
3/8" SAE REPLACEMENT BLACK VACUUM HOSE



ALUMINUM 3/8" BORE 2-3 WAY BALL VALVE MANIFOLD GAUGE SETS

Exclusive 3/8" Ball Valve Design

- Full 3/8" bore all the way through the block increases flow over the standard block designs
- Ball valve rotates 90° between two teflon washers requiring little effort to turn, even under pressure
- Opens and closes quickly with only a quarter turn
- · Visual knob position quickly indicates if valves are opened or closed
- Gauges offered in a wide variety of selections
- Color coordinated gauges for multi-refrigerant recognition
- · Includes nylon barrier hoses with manual ball valves in a plastic box



3-WAY 3/8" BALL VALVE MANIFOLD,



Hose Length	2-WAY 3/8" BALL VALVE MANIFOLD, (3) 1/4" SAE NYLON BARRIER HOSES WITH MANUAL BALL VALVES	3-WAY 3/8" BALL VALVE MANIFOLD, (3) 1/4" SAE NYLON BARRIER HOSES WITH MANUAL BALL VALVES, (1) 3/8" SAE VACUUM HOSE & 90° SWIVEL VACUUM BALL VALVE		
36"	59636	59836		
60"	59661	59861 >>POPULAR<<		
72"	59672 59872			
58203	Ball valve manifold with 3 1/8" gauges only			
58501	R410A, R22, & R404A (PSI/°F) low side (3 1/8") replacement gauge			
58803	R410A, R22, & R404A (PSI/°F) high side (3 1/8") replacement gauge			

R410A, R22 & R404A BALL VALVE MANIFOLD SET WITH LARGE 3 1/8" GAUGES (PSI/°F)

Optional 3/8" hose with special 90° 3/8" swivel ball valve for vacuum line makes 2-way into 3-way full control gauge set.



(PSI/°F) R41

Hose Length	2-WAY 3/8" BALL VALVE MANIFOLD, (3) 1/4" SAE NYLON BARRIER HOSES WITH MANUAL BALL VALVES MANUAL BALL VALVES MANUAL BALL VALVES MANUAL BALL VALVES MANUAL BALL VALVES MANUAL BALL VALVES MANUAL BALL VALVE MANIFOLD, (3) 1/4" SAE NYLON BARRIER HOSES WITH MANUAL BALL VALVES			
36"	51236 51436			
60"	51261 51461			
72"	51272 51472			
51203	Ball valve manifold with 3 1/8" gauges only			
51501	R410A, R32 (PSI/°F) low side (3 1/8") replacement gauge			
51803	R410A, R32 (PSI/F) high side (3 1/8") replacement gauge			

REPLACEMENT PARTS





90530 Ball valve only (3/8" FML x 3/8" FFL 90	0530	Ball valve only (3/8" FML x	(3/8" FFL 90	ľ)
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98225 Ball valve repair kit 58102-PBR Plastic carrying case

10A & R32 BALL	. VALVE MANIFO	LD SET WITH LA	ARGE 3 1/8"	GAUGES (P



ALUMINUM R410A & R32 2-WAY MANIFOLD GAUGE SETS



Hose connections are 1/4" SAE. Gauges are 3 1/8" in PSI & "F. Packaged in a clamshell.

	HOSE LENGTH (SET OF 3)	R410A HOSES STANDARD 1/4" SAE FITTINGS	R410A HOSES BALL VALVE CONTROL STANDARD 1/4" SAE FITTINGS
	36"	51136	51336
	60"	51161 >>POPULAR<<	51361
	72"	51172	51372
	51103	Aluminum 2-way manifold with 3 1/8" gauges only	
	51501	R410A, R32 (PSI-°F) low side (3 1/8") replacement gauges	
C-	51803	R410A, R32 (PSI-°F) high side (3 1/8") replacem	ient gauges
51161			

ALUMINUM R404A, R407C, R507A & R134a 2-WAY COMMERCIAL MANIFOLD GAUGE SETS



Hose connections are 1/4" SAE. Gauges are 3 1/8" in PSI, BAR & °F. Packaged in a clamshell.

	HOSE LENGTH (SET OF 3)	NYLON BARRIER HOSES STANDARD FITTINGS	NYLON BARRIER HOSES AUTO SHUT-OFF VALVES	NYLON BARRIER HOSES BALL VALVE
	36"	54136	54236	54336
	60"	54161	54261	54361
	72"	54172	54272	54372
	54103	Aluminum 2-way manifold with	3 1/8" gauges only	
	54350	R404A, R407C, R507A & R134a	(PSI/°F) low side (3 1/8") replacer	nent gauge
54161	54500	R404A, R407C, R507A & R134a	(PSI/°F) high side (3 1/8") replace	ment gauge

ALUMINUM R22, R404A & R410A 2-WAY MANIFOLD GAUGE SETS



Designed for high pressure R410A. Gauges are 3 1/8" in PSI, °F. Packaged in a clamshell.



HOSE LENGTH (SET OF 3)	R410A HOSES STANDARD 1/4" SAE FITTINGS	R410A HOSES BALL VALVE CONTROL STANDARD 1/4" SAE FITTINGS		
36"	57136	57336		
60"	57161 57361			
72"	57172 57372			
57103	Aluminum 2-way manifold with 3 1/8" gauges only			
58501	R410A, R22, & R404A (PSI- ${}^\circ\!\!F)$ low side (3 1/8") replacement gauges			
58803	R410A, R22, & R404A (PSI-°F) high side (3 1/8") replacement gauges			

2-WAY BRASS MANIFOLD GAUGE SETS

BRASS R12, R22 & R502 2-WAY MANIFOLD GAUGE SETS

Hose connections are 1/4" SAE. Gauges are 2 1/2" in PSI & °F. Packaged in a clamshell.



BRASS R404A, R407C, R507A & R134a 2-WAY COMMERCIAL MANIFOLD GAUGE SETS



Hose connections are 1/4" SAE. Gauges are 3 1/8" in PSI, BAR & °F. Packaged in a clamshell.

	HOSE LENGTH (SET OF 3)	NYLON BARRIER HOSES STANDARD FITTINGS	NYLON BARRIER HOSES AUTO SHUT-OFF VALVES	NYLON BARRIER HOSES BALL VALVE
	36"	56136	56236	56336
	60"	56161 >> POPULAR<<	56261	56361
	72"	56172	56272	56372
A CONTRACTOR OF A CONTRACTOR O	56103	Brass 2-way manifold with 3 1/8" gauges only		
56161	54350	R404A, R407C, R507A & R134a (PSI-°F) low side (3 1/8") replacement gauge		nent gauge
	54500	R404A, R407C, R507A & R134a	(PSI-°F) high side (3 1/8") replace	ment gauge

BRASS R22, R404A & R410A 2-WAY MANIFOLD GAUGE SETS



Designed for high pressure R410A. Gauges are 3 1/8" in PSI, °F. Packaged in a clamshell.



HOSE LENGTH (SET OF 3)	R410A HOSES STANDARD 1/4" SAE FITTINGS	R410A HOSES BALL VALVE CONTROL STANDARD 1/4" SAE FITTINGS	
36"	59136	59236	
60"	59161 >>POPULAR<<	59261	
72"	59172	59272	
59103	Brass 2-way manifold with 3 1/8" gauges only		
58501	R410A, R22, & R404A (PSI-°F) low side (3 1/8") replacement gauge		
58803	R410A, R22, & R404A (PSI-°F) high side (3 1/8") replacement gauge		



R600a, R290 & R134a SPECIALTY MANIFOLDS (HYDROCARBONS)









93518-TP



• Large 3 1/8" gauges (PSI/°F) with easy to read temperatures scales

- Silicone dampened gauges smooth out needle movement
- Gauges can be easily recalibrated in the field to maintain accuracy
- Easy to grip knobs
- Constructed of the finest materials
- Machined with precision to the highest quality standards
- Packaged in a clamshell

R600a, R290 & R134a 2-WAY BRASS MANIFOLD SET

MADE IN

USA

33561	Brass 2-way manifold gauge set with 60" standard hoses with standard fittings
33518-TP >>popular<<	Brass 2-way manifold gauge set with (3) 18" thermoplastic service hoses (2 mm thermoplastic service hoses with ¼" SAE female swivel fittings for maximum precision on small capacity systems)
33524-TP	Brass 2-way manifold gauge set with (3) 24" thermoplastic service hoses (2 mm thermoplastic service hoses with ¼" SAE female swivel fittings for maximum precision on small capacity systems)
33503	Brass 2-way manifold with 3 1/8" gauges only
51350	R600a, R290, R134a (PSI/°F) low side (3 1/8") replacement gauge
51500	R600a, R290, R134a (PSI/°F) high side (3 1/8") replacement gauge

R600a, R290 & R134a 2-WAY ALUMINUM MANIFOLD SET

93561	Aluminum 2-way manifold gauge set with 60" standard hoses with standard fittings
93518-TP	Aluminum 2-way manifold gauge set with (3) 18" thermoplastic service hoses (2 mm thermoplastic service hoses with ¼" SAE female swivel fittings for maximum precision on small capacity systems)
93524-TP	Aluminum 2-way manifold gauge set with (3) 24" thermoplastic service hoses (2 mm thermoplastic service hoses with ¼" SAE female swivel fittings for maximum precision on small capacity systems)
51303	Aluminum 2-way manifold with 3 1/8" gauges only
51350	R600a, R290, R134a (PSI/°F) low side (3 1/8") replacement gauge
51500	R600a, R290, R134a (PSI/°F) high side (3 1/8") replacement gauge



SINGLE BALL VALVE MANIFOLDS

(packaged in a clamshell)



1/4" SINGLE BALL VALVE MANIFOLD WITH 3 1/8" GAUGES (PSI/F)				
	Refrigerant Scales	Gauge p/n (HP/LP)		
92103-53-1/4	R600a, R290, R134a	51350		
92103-55-1/4	R410A, R32	51501		

5/16" SINGLE BALL VALVE MANIFOLD WITH 3 1/8" GAUGES (PSI/°F)

	Refrigerant Scales	Gauge p/n (HP/LP)		
92103-55-5/16	R410A, R32	51501		
* Manifolda accombled wi	th acuse swords, add a. C			

* Manifolds assembled with gauge guards, add a -G

1/4" SINGLE BALL VALVE MANIFOLD WITH 3 1/8" GAUGES (PSI/°F) & 2 MM THERMOPLASTIC SERVICE HOSE WITH 1⁄4" SAE FEMALE SWIVEL FITTINGS

for maximum precision on small capacity systems

	Refrigerant Scales	Gauge p/n (HP/LP)	Thermoplastic Capillary Hose
92518-53-1/4TP >>POPULAR<<	R600a, R290, R134a	51350	18"
92524-53-1/4TP	R600a, R290, R134a	51350	24"



92518-53-1/4TP

ALUMINUM CO2 (R744) 2-WAY PISTON VALVE MANIFOLD (PSI/MPA)





- Free floating piston valve results in less wear and tear in comparison to market standard twisting piston valves
- O-ring with back-up o-ring allows for a better seal at high pressures
- Oil filled, class 1.0, 70 mm gauges with easy to read pressure scales
- Solid extruded aluminum body for long-lasting durability
- Large easy to grip knobs
- 1/4" SAE fittings
- Steel braided hoses for CO2 provide a leak free connection
- Assemblies packed in plastic carrying case
- Plastic carrying case, p/n 58102-PBR

R744 (PSI/MPa) low side (2 3/4") class 1.0 replacement gauge	55102-1400
R744 (PSI/MPa) high side (2 3/4") class 1.0 replacement gauge	55102-2400
Manifold with oil filled gauges only (1/4" SAE)	55103-A
Manifold (as above) with 3 - 60" braided hoses	55661-A



REPLACEMENT GAUGES

Mastercool offers one of the most extensive lines of high quality replacement gauges. Our wide variety of gauge scales are available in different sizes and styles. All of our gauges are designed with the **ANTI-FLUTTER** feature that reduces needle fluctuation and increases reading accuracy.

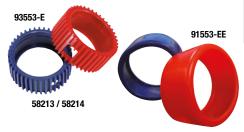
gauges are assigned with the An		High pressure	Low pressure	Diameter	Units	Refrigerant Scales	Gauge Class
		93500	93350	2 1/2"	PSI∕°F	R12, R22, R502	1.6
	5 12 12 5 12 12 12 10 12 10 10 10 10 10 10 10 10 10 10 10 10	55102-2400	55102-1400	2 3/4"	PSI/MPa	R744	1.0
		54500	54350	3 1/8"	PSI/°F	R404A, R407C, R507A, R134a	1.6
		58803	58501	3 1/8"	PSI/°F	R410A, R22, R404A	1.6
		51803	51501	3 1/8"	PSI/°F	R410a, R32	1.6
		51500	51350	3 1/8"	PSI/°F	R600a, R290, R134a	1.6

MANIFOLD REPLACEMENT PARTS



High pressure p/n	Low pressure p/n	Gauge Diameter	Units	Refrigerant Scales
DG-800	DG-500	1.4" x 0.65" LCD Display	MPA/kPA/Bar/PSI/ kg/cm2/inHg °F/°C	see page 10

GAUGE PROTECTORS



Mastercool gauge protectors are built to cushion shock due to rough handling. The unique ribbing deadens bumps and deflects shocks. Snug fitting. Color coded. All Mastercool manifold gauge sets are available with gauge protectors installed. To order, simply place a "-G" after any gauge set number.

2 1/2" (63 MM)	GAUGE PROTECTORS
93253-E	2 1/2" (63 mm) blue gauge protector
93503-E	2 1/2" (63 mm) red gauge protector
93553-E	2 1/2" (63 mm) set (red & blue)
3 1/8" (80 MM)	GAUGE PROTECTORS
3 1/8" (80 MM) 91253-EE	GAUGE PROTECTORS 3 1/8" (80 mm) red gauge protector
· · ·	

LENS



85253-E	2 1/2" (63 mm) lens
98251-E	3 1/8" (80 mm) lens

4-WAY MANIFOLD REPLACEMENT KNOBS

58211 / 58212 85212-R / 85211-R	4-WAY MANIF	4-WAY MANIFOLD REPLACEMENT KNOBS		
	58211	Blue knob		
	58212	Red knob		
	58213	Yellow knob		
Martin Contraction		58214	Black knob	
	2-WAY MANIF	OLD REPLACEMENT KNOBS		
		85211-R	Blue knob	
		85212-R	Red knob	
		93211-R	Black knob	



85200 DELUXE A/C SERVICE REPAIR KIT



	skets, depressors, o-rings and nylon guides for charging hoses and adapters.
Consists of:	
42010	1/4" gasket (10 pcs)
42014	1/4" depressor (10 pcs)
80034	0-ring for 82834 (10 pcs)
80034-1	High side nylon guide (5 pcs)
80134	0-ring for 82934 (10 pcs)
82010	Gasket for R134a hose (10 pcs)
82336	Gasket for 82335 (10 pcs)
83341	0-ring for R134a hose (10 pcs)
90336	Gasket for R12 shut-off valve (10 pcs)

92207 REFRIGERATION GASKET, DEPRESSOR ASSORTMENT KIT



Consists of:	
42010	1/4" gasket (6 pcs)
85511	3/8" hose gasket (1 pc)
42017	Screw type depressor (3 pcs)

PARTS FOR MANIFOLDS



PARTS FOR 2-V	VAY BRASS MANIFOLDS
34215	O-rings for brass manifolds
34216	Seal & seat assembly for brass manifolds
PARTS FOR 2-V	VAY ALUMINUM MANIFOLDS
85215	O-rings (4 pcs)
85216	Seal & seat assembly (2 pcs)
PARTS FOR BA	LL VALVE MANIFOLDS
95102-R-KIT	O-ring repair kit for 4 way ball valve manifold
58102-R-KIT	0-ring repair kit for 2 and 3 way ball valve manifold
98102-R-KIT	O-ring repair kit for single ball valve manifold



PREMIER IMIER ALLOA

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HOSES, ADAPTERS & ACCESSORIES

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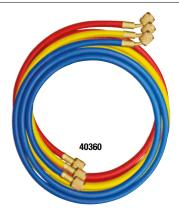
MADE IN USA



Mastercool uses only (GRADE 5 HOSE) with a selection of standard and nylon barrier for high pressure applications. Knurled brass nuts make finger tightening easy. Crimped with 8 segment dies for secure fit and maximum durability. Hoses are available in sets and a variety of lengths to meet all EPA, SAE and UL requirements for containment of refrigerant. Sets include one blue, one red and one yellow hose.

STANDARD & HIGH PRESSURE HOSES W/STANDARD FITTINGS (1/4" SAE)





R12, R502 Standar	rd Hoses, Wo	rking Pressure 600 PSI, Burst	3000 PSI	
HOSE LENGTH	36"	60"	72"	96"
Blue 1/4" x 1/4"	41361	41601	41721	41961
Yellow 1/4" x 1/4"	41362	41602	41722	41962
Red 1/4" x 1/4"	41363	41603	41723	41963
SETS 1/4" x 1/4"	40336	40360 >> POPULAR<<	40372	40396
R22, R32, R410A Nylon	Barrier Hose	s, Working Pressure 800 PSI, E	Burst 4000 PS	l
Blue 1/4" x 1/4"	47361	47601	47721	47961
Yellow 1/4" x 1/4"	47362	47602	47722	47962
Red 1/4" x 1/4"	47363	47603	47723	47963
Black 1/4" x 1/4"	47364	47604	47724	47964
SETS 1/4" x 1/4"	47336	47360 >>POPULAR<<	47372	47396
Black 1/4" hose w/(3/8" x 3/8" fitting)	48364	48604	48724	48964

STANDARD & HIGH PRESSURE HOSES W/AUTOMATIC SHUT-OFF VALVE FITTINGS (1/4" SAE)

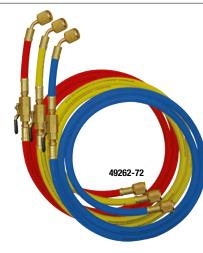


HOSE LENGTH	36"	60"	72"	96"
Blue 1/4" x 1/4"	45361	45601	45721	45961
Yellow 1/4" x 1/4"	45362	45602	45722	45962
Red 1/4" x 1/4"	45363	45603	45723	45963
Black 1/4" x 1/4"	N/A	N/A	N/A	N/A
SETS 1/4" x 1/4"	45336	45360 >> POPULAR<<	45372	45396
R22, R32, R41	OA Nylon Barrier Hose	es, Working Pressure 800 PSI, E	Burst 4000 PS	
Blue 1/4" x 1/4"	46361	46601	46721	46961
Yellow 1/4" x 1/4"	46362	46602	46722	46962
Red 1/4" x 1/4"	46363	46603	46723	46963
Black 1/4" x 1/4"	46364	46604	46724	46964
SETS 1/4" x 1/4"	46336	46360 >> POPULAR<<	46372	46396

Auto shut-off valves automatically retain refrigerant in the service hose when they are removed from the system, meets EPA, SAE and UL standards for containment of refrigerant.

STANDARD & HIGH PRESSURE HOSES W/MANUAL SHUT-OFF VALVE FITTINGS (1/4" SAE) >> RECOMMENDED FOR R410A <<





HOSE LENGTH	36"	60"	72"
Blue 1/4" x 1/4"	90263-36	90263-60	90263-72
Yellow 1/4" x 1/4"	90264-36	90264-60	90264-72
Red 1/4" x 1/4"	90265-36	90265-60	90265-72
SETS 1/4" x 1/4"	90262-36	90262-60	90262-72
R22, R32, R410A Nylor	n Barrier Hoses, Wo	rking Pressure 800 PSI, Burst 400	IO PSI
Blue 1/4" x 1/4"	49263-36	49263-60	49263-72
Yellow 1/4" x 1/4"	49264-36	49264-60	49264-72
Red 1/4" x 1/4"	49265-36	49265-60	49265-72
SETS 1/4" x 1/4"	49262-36	49262-60 >>POPULAR<<	49262-72
Red 1/4 x 5/16"	49265-36-JT	49265-60-JT	49265-72-JT
Blue 1/4 x 5/16"	49263-36-JT	49263-60-JT	49263-72-JT
SETS Red/Blue 1/4 x 5/16", Yellow 1/4 x 1/4"	49262-36-JT	49262-60-JT	49262-72-JT

HOSES



MADE IN USA

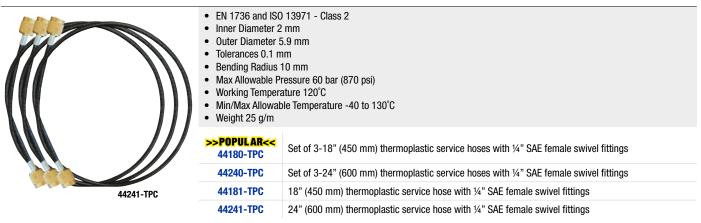
3/8" SAE REPLACEMENT BLACK VACUUM HOSE

94236

94136

HOSE LENGTH	36"	60"	72"
Without Ball Valve	94136	94160	94172
With Ball Valve	94236	94260	94272

THERMOPLASTIC SERVICE HOSE ASSEMBLIES FOR R600A AND R290 - ¼" SAE FEMALE SWIVEL FITTING



STEEL BRAIDED HOSES FOR CO2



Steel Braided Hoses, Working Pressure 2900 PSI, Burst 11600 PSI			
HOSE LENGTH	60"		
Steel Braided Hose for CO2	55601		
SET of 3 Steel Braided Hoses for CO2	55360		

SERVICE HOSE REPLACEMENT PARTS

	1/4" FITTING	SPRIN	G TYPE	SCREW TYPE	
	1/4 FITTING	GASKET DEPRESSOR		GASKET	DEPRESSOR
	CHARGING HOSES	42010-10	42014-10	42010-10	42017-10
i 🖉 🚽 🦂	SHUT-OFF VALVE	90336-10	N/A	N/A	N/A
	85511-10	3/8" GASKET for 85510	(can tap valve)		
	48010	3/8" GASKET for 3/8" he	DSE		



• Max Allowable Pressure 60 bar (870 psi)

Min/Max Allowable Temperature -40 to 266°F (-40 to 130°C)

• 2 mm thermoplastic capillary hose

• Working Temperature 248°F (120°C)

2MM HIGH PRESSURE CONTROL HOSES

- EN 1736 and ISO 13971 Class 2
- Inner Diameter 2 mm
- Outer Diameter 5.9 mm
- Tolerances 0.1 mm
- Bending Radius 10 mm

THERMOPLASTIC CAPILLARY TUBE ASSEMBLIES - STRAIGHT X 45° FITTINGS WITH DEPRESSOR

• Weight 25 g/m



2 mm thermoplastic capillary hose for maximum precision on small capacity systems					
44318	Set of 3-18" (450 mm) capillary hoses with straight x 45° fittings with depressor				
44324 Set of 3-24" (600 mm) capillary hoses with straight x 45° fittings with depressor					
44184-S45	18" (450 mm) capillary hose with straight x 45° fittings with depressor				
44244-S45	24" (600 mm) capillary hose with straight x 45° fittings with depressor				

THERMOPLASTIC CAPILLARY TUBE ASSEMBLIES - STRAIGHT X STRAIGHT FITTING



44124-STR	12" (30 cm) capillary hose assembly with straight x straight fittings
44184-STR	18" (45 cm) capillary hose assembly with straight x straight fittings
44244-STR	24" (60 cm) capillary hose assembly with straight x straight fittings
44484-STR	48" (120 cm) capillary hose assembly with straight x straight fittings
44604-STR	60" (150 cm) capillary hose assembly with straight x straight fittings

THERMOPLASTIC CAPILLARY TUBE ASSEMBLIES - STRAIGHT X 90° FITTING



2 mm thermoplastic capillary hose					
44124-ST	12" (30 cm) capillary hose assembly with straight x 90° fittings				
44184-ST	18" (45 cm) capillary hose assembly with straight x 90° fittings				
44244-ST	24" (60 cm) capillary hose assembly with straight x 90° fittings				
44484-ST	48" (120 cm) capillary hose assembly with straight x 90° fittings				
44604-ST	60" (150 cm) capillary hose assembly with straight x 90° fittings				

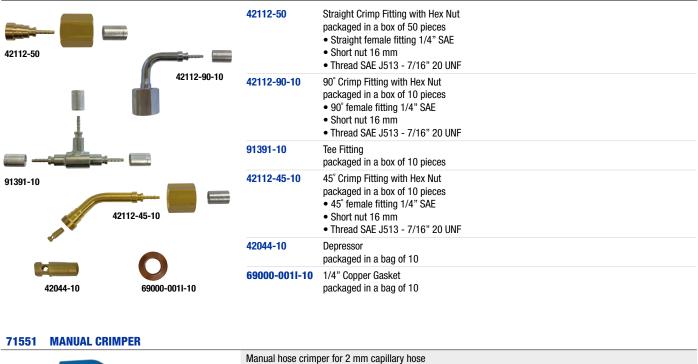
2MM THERMOPLASTIC CAPILLARY HOSE



44004-1000 2 mm thermoplastic capillary hose roll of 1000 inches (25 meters) 2 mm thermoplastic capillary hose roll of 2000 inches (50 meters) 44004-2000



CRIMP FITTINGS FOR 2 MM CAPILLARY HOSE





80013 CAPILLARY TUBE CUTTER



Capillary tube cutter for 2 mm capillary hose

44425 CAPILLARY TUBE KIT



All the components necessary to crimp your own capillary hoses housed in Mastercool's nylon backpack.

Kit consists of:

- 50 meters thermoplastic capillary hose (44004-2000)
- Manual crimper (71551)
- Capillary tube cutter (80013)
- Straight crimp fitting with hex nut (50 pieces) (42112-50)
- Depressor (10 pieces) (42044-10)



SHUT-OFF VALVES

Mastercool manufactures a complete line of shut-off valves for containment of refrigerant. EPA requires shut-off valves within 12 inches of the charging hose ends to prevent unnecessary venting of refrigerant. Using shut-off valves is much safer than allowing refrigerant to blow out during service.

90262-R 45° MANUAL SHUT-OFF VALVE SET





 Ball valve design with flexible hose controls refrigerant with a quarter turn of the valve handle. Meets SAE, EPA and UL requirements for containment of refrigerant. One hand operation. Screws onto charging hose end.

 45° Manual Shut-Off Valve Set Includes:

 90263-R
 Blue 1/4" x 1/4"

 90264-R
 Yellow 1/4" x 1/4"

 90265-R
 Red 1/4" x 1/4"

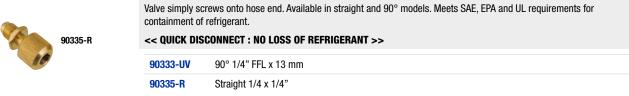
MANUAL SHUT-OFF BALL VALVES



For custom application, Mastercool offers swivel ball valves without the hoses. This valve may be used to add shut-off valves to recycling equipment, manifold sets, flushing equipment, etc.

904	30	1/4 x 1/4" Swivel Ball Valve
904	33	1/4" x 5/16" Swivel Ball Valve

AUTOMATIC SHUT-OFF VALVES



CONTROL VALVE

		NEW	ldeal for use on	charged systems. Eliminates refrigerant, oil or dye from spraying during connections.
-			90328	1/4" FFL x 1/4" MFL
TEN	ALL LAND	No. of Concession, Name	90328-5/16	5/16" FFL x 5/16" MFL
90328	90328-5/16	90329	90329	5/16" FFL x 1/4" MFL



91290 UNIVERSAL VALVE CORE REMOVER



Double ended for easy replacement of standard and GM R12 large bore valve cores.

Quickly removes while serves. Charges area includes six replacement serves

90376 VALVE CORE REMOVER W/VALVE CORES



QUICKIY ren	loves valve cores. Storage area includes six replacement access valve cores.
90377	Replacement Standard Valve Cores for 90376 (6 pieces of 0377-001)
90377-10	Standard Valve Core (10 pieces)
90377-20	Standard Valve Core (20 pieces)

91490 STANDARD VALVE CORE REMOVER/INSTALLER



Sturdy ball valve design controls refrigerant flow with 1/4 turn of the valve lever. Lever position also gives visual indication of whether valve is opened or closed.

1490-002 Standard Valve Core Shaft Only (Can be used w/ 91490/91491 body)

91490-K Replacement Tip & Pin for 91490, 91496 & 91499

91496 VALVE CORE REMOVER/INSTALLER WITH ACCESS PORT



Temporary removal of service valve core eliminates the restriction it creates and provides full flow of refrigerant and vacuum during recovery, evacuation and recharge. You will save valuable service time.

91498 UNIVERSAL VALVE CORE REMOVER/INSTALLER KIT



(for High Pressure Refrigerants) (410A)

Designed with a patented locking mechanism, the 91498 is the only valve core remover kit that has a safety nut allowing the technician to freely access the valve core without fighting high pressures. Packaged in a blow molded carrying case, this kit also offers 5/16" and 1/4" flare fittings for all refrigerant applications. **PATENT# 6,253,436**



91499 SUPERHEAT DETERMINATION SET (HVAC)



Special valve core remover/installer adapter allows replacement of damaged or faulty service valve cores without recharging the system. Valve replacement no longer requires time consuming refrigerant recovery. Calculation of superheat with excellent accuracy by reading refrigerant temperature and pressure from the same location in the system.



CHARGING ADAPTERS, REPLACEMENT GASKETS & DEPRESSORS

* Includes Access Valve Core (0377-001) - (90-110 PSI Opening) ** Includes Check Valve Core (0332-002) - (8-12 PSI Opening)

90° ADAPTERS

			REPLACEMENT	GASKET/O-RING	DEPRESSOR
	Α	90314*	1/4" MFL x 1/4" FFL with Valve Core	42010	42014
The second secon	А	90354*	1/4" MFL x 3/16" FFL (High Side) GM 1976 & Later	90369	90368

45° ADAPTERS



В В

A

	REPLACEMENT	GASKET/O-RING	DEPRESSOR
90924	1/4" MFL x 1/4" FFL	42010	42014
90927*	1/4" MFL x 3/16" FFL (High-Side)	90369	90368

STRAIGHT ADAPTERS

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emme	E
	F
	G H
	"

		REPLACEMENT	GASKET/O-RING	DEPRESSOR
С	90335-R	Shut-Off Valve 1/4" MFL x 1/4" FFL	90336	-
D	82634*	1/4" FFL x 1/2" ACME-M	90331	-
D	82634-M	1/4" FFL x 1/2" ACME-M without Valve Core	-	-
Е	90358*	1/4" MFL x 3/16" FFL (High-Side)	42010	42014
F	90274	1/4" MFL x 1/4" FFL Swivel	42010	42014
F	90332**	1/4" MFL x 1/4" FFL Anti-Blowback Fitting	42010	42014
F	90357	1/4" MFL x 3/16" FFL (High-Side) Swivel	90369	90368
G	90633	1/4" MFL x 1/4" MFL Union	-	-
G	82633	1/2" ACME-M x 1/2" ACME-M Union	-	-
Н	90413	Convert 1/4 to 5/16 SAE (1/2-20 UNF) Swivel Female Nut with Depressor	-	-

FLEX ADAPTERS

			REPLACEMENT	GASKET/0-RING	DEPRESSOR
	I	90356*	1/4" MFL x 1/4" FFL	42010	42014
J	J	90410	Convert 1/4 SAE Hose into 5/16 SAE, 1/2-20 UNF Swivel Connection for R410A	-	-
	К	90411	Flex Adapter with Ball Valve - convert 1/4 SAE hose into 5/16 SAE, 1/2-20 UNF swivel connection for R410A	-	-

ACCESS SERVICE TOOLS

				REPLACEMENT	GASKET/O-RING	DEPRESSOR
Contraction Contraction	L	L	90296*	1/4" MFL x 1/8" NPT	-	-
- HIMM - MINIM		L	80296*	1/2" ACME-M x 1/8" NPT	-	-

SWIVEL ADAPTERS

				REPLACEMENT	GASKET/O-RING	DEPRESSOR
		М	90416	R410A 1/4" SAE x 5/16 SAE (1/2" - 20 UNF) Swivel/Angle Adapter Fitting	-	-
M	N	Ν	82031	Vacuum Pump Swivel Adapter - screws onto existing 1/4" flare fitting and converts to 1/4"-FL and 1/2" ACME	-	-

TANK ADAPTER

0	0		REPLACEMENT	GASKET/O-RING	DEPRESSOR
	0	90637	3/4-16 x 1/4" FL	90638	-



MALE x MALE CONNECTORS

	82735	14 mm-M x M10 x 1.5-M Connector
	82736	14 mm-M x M12 x 1.75-M Connector
	82738	14 mm-M x 3/8" FL-M Connector
	83341	0-Ring for 82733, 82734, 82735 and 82736
82735	80234	0-Ring for 82634, 82634-M, 90364 and 90365

FEMALE x MALE CONNECTORS

82634

82635	1/2" ACME-F x 1/4" FL (7/16-20")-M R134a Adapter Coupler
82733	14 mm-F x 1/2" ACME-M Connector
90364	1/4" (7/16-20")-F x M10 x 1.5-M Adapter
90363	5/16" (1/2-20 UNF)-F x 1/4" FL-M Connector
82634	1/4" FL-F (7/16-20") x 1/2" ACME-M Connector
82634-M	1/4" FL-F (7/16-20") x 1/2" ACME-M R134a Connector
90366	1/4" SAE FL-F x 5/16" FL-M Connector

99333 "T" FITTING



1/4 FL-M x 1/4 FL-M x 1/4 FL-F Tee

HOSE CUTTERS



80011	Heavy Duty Ratchet Hose Cutter Ratcheted action makes this cutter extremely easy to operate resulting in quick, clean cuts. Cutting blade is made of special alloy, heat treated steel for long life. Cuts all rubber hoses and PVC pipe up to 1 1/2" (38 mm) 0.D. (Not recommended for PVC200)
80111	Replacement Blade for 80011
80013	Refrigerant Hose Cutter Makes quick, clean cuts. Cuts rubber automotive refrigerant hoses up to 1 1/2" 0.D.
80113	Replacement Blade for 80013

90925 CONDENSER FIN COMB



Cleans and straightens condenser and evaporator fins. Six sided head for 8, 9, 10, 12, 14 and 15 fins per inch applications.

85530 3-IN-1 SIDE MOUNT CAN TAP VALVE



This unique design covers 2 7/8" (R134a), 2 1/2" and 2" (OIL) charge cans. Includes 1/2" ACME-M and 1/4" FL-M ports. Internal safety check valve prevents system back flow.



MANUAL COUPLERS



Patented manual couplers adjust easily to R134a service ports with varying dimensions. All metal construction for extra durability. Patented, spring loaded depressor will not damage service valves. Can be removed from service ports regardless of knob position without losing refrigerant. Meets SAE, UL and EPA requirements for containment of refrigerant. Color coded. **PATENT# 5,370,359**

82834-E	High Side Manual R134a 1/4" FL-M x 16 mm Quick Coupler >>POPULAR<<
82934-E	Low Side Manual R134a 1/4" FL-M x 13 mm Quick Coupler >>POPULAR<<
82834	High Side Manual R134a 14 mm-F x 16 mm Quick Coupler
82934	Low Side Manual R134a 14 mm-F x 13 mm Quick Coupler
82834-3/8	High Side Manual R134a 3/8" FL-M x 16 mm Quick Coupler
82934-3/8	Low Side Manual R134a 3/8" FL-M x 13 mm Quick Coupler
80034	0-Ring for 16 mm Quick Coupler (10 pcs)
80134	0-Ring for 13 mm Quick Coupler (10 pcs)

QUICK COUPLERS



	Specially designed to work in the tightest quarters. Attaches to your existing 1/4" FL hoses and snaps easily to A/C service ports.		
66434-R	High Side R134a 1/4" FL-M x 16 mm Quick Coupler		
66534-R	Low Side R134a 1/4" FL-M x 13 mm Quick Coupler		
60034-10	0-Ring for 66434 (10 pcs)		
60134-10	0-Ring for 66534 (10 pcs)		

R1234yf COUPLERS



- Meets SAE J639 & J2888
- All metal construction for extra durability
- Color coded
- Allows recovery of entire refrigerant, including the space between the coupler and fitting

83834	High Side R1234yf 12 mm-F x 17 mm Coupler with Extended Disconnect Sleeve
83934	Low Side R1234yf 12 mm-F x 14 mm Coupler with Extended Disconnect Sleeve
67434	High Side R1234yf 12 mm-F x 17 mm Quick Coupler
67534	Low Side R1234yf 12 mm-F x 14 mm Quick Coupler





THE COMPLETE A/C DIAGNOSTIC TOOL



2251



52270



Part #	52251 System Analyzer	52253 Round Vane	52254 Antenna Type Meter (extends to 37")	52336 3 Ft. Clamp-on Thermocouple	52252 Pressure Transducer
	SYS	TEM ANALYZER	KITS in a blow molde	d plastic box	
52255	1	√	-	\checkmark	-
52260	√	-	√	\checkmark	-
52270	√	√	-	\checkmark	√
52280	√	-	√	\checkmark	√

Mastercool's A/C system analyzer is an all-in one tool that not only calculates critical information for the air conditioning system but also diagnoses basic system problems. The LCD display leads the technician through basic tests making service quicker and less complicated. The A/C system analyzer is able to calculate: actual superheat, subcool, target superheat, temperature split, dry bulb, wet bulb, relative humidity, dew point, air velocity and air flow volume.

The A/C system analyzer easily guides the technician in determining if the refrigerant charge is correct. No calculations or charts are needed. Easily save test results under a customer and technician name and even download the data for future reference.

FEATURES:

- Calculates actual superheat and subcool temperatures for the following refrigerants: R22, R114, R123, R124, R134a, R141B, R142B, R401A, R401B, R404A, R407A, R407B, R407C, R407D, R408A, R409A, R410A, R411A, R411B, R414A, R414B, R417A, R507A
- Provides all the functions of a high-end anemometer: airflow volume, air velocity, dry bulb temperature, wet bulb temperature, relative humidity and dew point
- Save results and download in Excel format for future use
- Optional pressure transducer for direct system readings
- Optional antenna type meter for any hard to reach locations

SPECIFICATIONS:

- Operating temperature: 32 to 122°F (0 to 50°C), humidity <80%
- Storage temperature: -4 to 122°F (-20 to 50°C), humidity <90%
- Dimensions with boot: 191mm x 93 mm x 41 mm
- Weight: (meter w/ batteries & round vane) 1.1 lb (500 g)
- \bullet Temperature display: $^\circ \! F$ and $^\circ \! C$
- Pressure display: PSI and Bar
- Back-lit LCD display
- Low battery indicator
- K-type thermocouple connection
- USB connection
- 6 AA batteries

All models available in multiple languages.

Please add the suffix below to the part number for the corresponding languages

- -ES: English and Spanish
- -EG : English and German
- -EF: English and French
- -EI: English and Italian
- -EP: English and Portuguese





52253 **ROUND VANE**



- Temperature Range/Resolution/Accuracy:
- -4 to 140°F (-20 to 60°C)
- 0.2°F (0.1°C)
- ±0.6°C (1.1°F) (-20 to 50°C (-4 to 122°F)),

±1.2°C (2.2°F) at other range-humidity Range/

- Resolution/Accuracy:
- 0.1% to 99.9% RH
- 0.1% RH
- ±3% RH (at 77°F (25°C), 10 to
- 90% RH), ±5% RH at other range
- Wind-speed Range/Resolution/Accuracy: • 0.6 to 32 m/s
- 0.1 m/s
- ±2% of full scale



Just two measurements with the probe will give the target temperature split and actual temperature split across the evaporator and compare the two.

ANTENNA TYPE METER 52254

- Temperature Range/Resolution/Accuracy: • -4 to 140°F (-20 to 60°C)
- 0.2°F (0.1°C)
- ±0.6°C (1.1°F) (-20 to 50°C

(-4 to 122°F)), $\pm 1.2^\circ C$ (2.2°F) at other range Humidity Range/Resolution/Accuracy:

- 0.1% to 99.9% RH
- 0.1% RH

• ±3% RH (at 25°C (77°F), 10 to 90% RH), ±5% RH at other range

Wind-speed Range/Resolution/Accuracy:

- 0.5 to 25 m/s
- 0.1 m/s
- ±(2% of reading +0.3 m/s)

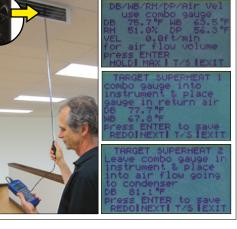
bulb, wet bulb, relative humidity, dew point, air velocity and air volume. Get target

Probe will

measure dry

superheat temperature by following screen instructions for two simple measurements

with the probe.



52252 PRESSURE TRANSDUCER

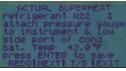
- Operating Pressure Range: 0-750 psi (0-52 bar)
- 1/4FL Swivel nut connection
- Accuracy: ±0.5, ±1% F.S.
- Operating Temperature: -40 to 100°C (-40 to 212°F)
- Certification: CE, Explosion-proof D EMC: EN50081-1/-2: EMS: EN50082-2

CLAMP-ON THERMOCOUPLE (extends 3 ft (1 m)) 52336



- Temperature Range/Resolution -40 to 250°F (-40 to 121°C)
- 0.2°F (0.1°C)





Pressure transducer and thermocouple will measure saturated temperature and actual temperature, to calculate actual superheat and subcool temperature.



System will compare target and actual superheat.



52236 AIRFLOW+PSYCHROMETER



Reads Humidity, Air Temperature, Dew Point, Wet Bulb, Air Velocity, Air Volume & BTU. The sensor is built into the remote fan and is protected by a rotating cap.

FEATURES:

- Auto-off with disabling capability
- Large back-lit LCD display
- Metric & inch unit selection
- Fast response & accurate reading
- Tripod mountable for extended use
- Dew Point & Wet Bulb
- Microprocessor circuitry
- 4 AAA batteries
- Professional remote vane
- · Low battery indicator

SPECIFICATIONS:

- *Temperature:* -4 to 140°F (-20 to 60°C) Accuracy: ±1°F (±0.6°C)
- Relative Humidity: 0 to 100% RH Accuracy: $\pm 3\%$ at 10 to 90% RH (cal. temp.) $\pm 5\%$ at other range
- Dew Point: -90 to 158°F (-68 to 70°C)
- Wet Bulb Temperature: -7.6 to 158°F (-22 to 70°C)
- Air Velocity: 0.3 to 35 m/s (1 to 114 ft/s)
- Air Volume: 0 to 99999 m3/s (0 to 99999 cfm)

52237 Data Logger CD & USB Cable for use with 52236 AirFlow+Psychrometer



52230 PEN TYPE HYGROMETER



- Rotating cap to protect sensor
- LCD digital display
- Temperature and humidity in °F or °C
- Max/Min record function
- · Data hold to capture readings
- Auto-off function
- SPECIFICATIONS:
- Size: 6.8" x 1.6" x 0.6" (17 x 4 x 1.5 cm)
- Sensor: Electronic capacitance polymer film
- Temp. Range: -4 to 140°F (-20 to 60°C)
- RH Range: 0 to 100%
- Accuracy: $\pm 3\%$ from 10 to 95% RH at 77°F (25°C) / $\pm 1\%$ from other RH range
- Resolution: 0.1°F / 0.1°C / 0.1%
- Storage Temp.: 14 to 140°F (-10 to 60°C) / Storage RH%: <95%
- Battery: (1) CR2032 (Lithium Coin Cell) / Battery life: 100 hrs.

• External temperature probe (optional)

· Microprocessor circuitry for reliability

· Data hold to capture readings

· Fast response, accurate reading



52233 DIGITAL PSYCHROMETER



- · Rotating cap to protect sensor
- LCD digital display
- Low battery indicator
- Max/Min record function
- Auto power off with disabling capability

SPECIFICATIONS:

- Temp. Range:
- RH% Range:
- Wet Bulb Range:
- Dew Point Range:
- Ext Temp. Range:
- Accuracy:
- Response Time:
- Pocket Size:
 - e: 0.9" (h) x 1.9" (w) x 7.0" (l) (2 x 5 x 18 cm) (2) 1.5V AAA battery

-4 to 122°F (-20 to 50°C)

-4 to 158°F (-20 to 70°C)

-6.88 to 122°F (-21.6 to 50.0°C)

-109.7 to 122°F (-78.7 to 50.0°C)

RH% 3% at 77°F (25°C)/Temp: 1°F (0.6°C)

0 to 100% RH

60 seconds

- Power:
- 52231 Probe for 52233

0

52238 DIGITAL SOUND LEVEL METER



- Automatic or manual ranging
- 4 measurement ranges from 40 to 130 dB
- 0.1dB resolution
- +/- 1.5 dB accuracy
- · Select fast or slow response times
- Select A or C weighting
- · Maximum hold function
- Record maximum or minimum measurements
- · Jacks provide AC analog output

52240 PROFESSIONAL HVAC/R CLAMP METER



- Multi-Function: Frequency count, diode check and alarm
- Current: (AC) 20 MA 600A
- Voltage: AC 200 mv 750V / DC 1V-1000V
- · Auto power off
- Frequency: 10Hz 2KHZ
- Ohms: (Resistance) 200m ohm-20K ohm
- · Peak data hold
- · Unit and sign display



TEMPERATURE MEASUREMENT

52225-MED MULTI-FUNCTION MEDICAL/SURFACE INFRARED THERMOMETER



- One second measurement provides for a quick response
- Non-contact for hygiene and comfort
- Surface mode to easily monitor an object temperature
- Fever alarm detects a temperature ≥99.5°F (37.5°C) under forehead mode
- Mute function
- . Large LCD with blue LED back-light for dark lit conditions
- 25 sets of measurement conditions for body temperature
- Easily switch between °F and °C
- Automatic shut-off after 1 minute to prolong battery life

SPECIFICATIONS:

• Temperature measurement range: Forehead mode: 93.2 to 108°F

	(34 to 42.2°C) <i>Surface mode:</i> -7.6 to 176°F (-22 to 80°C)	
Operating temperature range:	50 to 104°F (10 to 40°C), 15% to 85% RH	
Storage temperature range:	Stored at room temperature between -4 to 122°F (-20 to 50°C), RH≤85%; transportation temperature shall be less than 158°F (70°C), RH≤95%	
 Atmospheric pressure: 	800 to 1013 hPa	
Accuracy:	Forehead mode: $\pm 0.4^{\circ}F(0.2^{\circ}C)$ within 95 to 107.6°F (35 to 42°C) (ambient temp: 59 to 95°F (15 to 35°C), $\pm 0.5^{\circ}F$ (0.3°C) for other range Surface mode: $\pm 0.5^{\circ}F(0.3^{\circ}C)$ within 71.6 to 108°F (22 to 42.2°C), others $\pm 4\%$ or $\pm 4^{\circ}F(2^{\circ}C)$ whichever is greater	
Battery	AAA x 2 pcs (included)	
Battery life:	Around 3,000 continuous readings	
Blue LED back-light:	Automatically turned on after measurement and auto off after 5 seconds	
 Dimensions 	6.22 x 1.89 x 1.6"	













The 52224-A offers laser targeting accuracy, enhanced back-lit LCD display and an expanded temperature range. The compact design is simple to use and easy to store. **SPECIFICATIONS:**

3.5 oz including battery

• Non-contact temperature range: -58 to 1022°F (-50 to 550°C)

- Field of view:
- Display illumination:

• Weight:

- Target indicator:
- Emissivity:
- Resolution:
- Accuracy:
- Accuracy.
- Response time:
- Power off:
- Battery life:
- Included accessories:

12 : 1 Back-lit LCD color display

Circular laser spot 0.95 $0.1^{\circ}F / 0.1^{\circ}C$ $\pm 4^{\circ}F (2^{\circ}C) \text{ or } \pm 2\% \text{ of reading}$ 0.5 secondsAutomatic after 15 seconds Approximately 14 hours 2 AAA batteries, instruction manual, plastic molded case

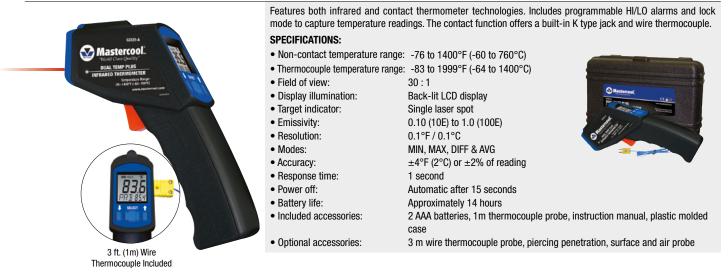


INFRARED THERMOMETER WITH CIRCULAR LASER 52224-CC





52225-A **DUAL TEMP PLUS INFRARED THERMOMETER**





52234-BT DIGITAL THERMOMETER/HYGROMETER with Bluetooth® Wireless Technology



Mastercool's Digital Thermometer/Hygrometer with Bluetooth® wireless technology works with our Mastercool Connect app to remotely provide dry bulb temperature, wet bulb temperature and relative humidity. Integrated into this unit is a high-performance ceramic antenna which offers maximum Bluetooth® wireless technology range. This digital thermometer/hygrometer will allow for varying the refrigerant charge in a system and seeing in real time how the supply parameters change.

The convenient clip, can easily be attached to a vent louver or register to see results more accurately. The mode key switches between dry bulb, wet bulb and relative humidity while the °C/°F key toggles between fahrenheit and celcius for easy to read calculations.

SPECIFICATIONS:

- Relative humidity (Tamb=73±9°F (23±5°C)): 1~99%, accuracy: ±3% from 20~80%, otherwise ±5%
- Dry bulb temperature (DBT): -4~150°F (-20~65°C), accuracy: ±4.5°F (±2.5°C)
- Wet bulb temperature (WBT): -4~150°F (-20~65°C), accuracy: ±4.5°F (±2.5°C)
- · Battery life: 40 hours continuous use, battery shelf life 8 months
- · Battery: one CR2032 lithium cell battery
- Dimensions: 2.2 x 2.1 x 1.7" (54.9 x 52.6 x 43 mm)
- Weight: 1.2 oz (35 g)
- Specifications for Bluetooth[®] wireless technology:
- 260' (80m) maximum line-of-sight range
- Bluetooth[®] 4.2 and 5

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THERMAL IMAGING WITH VISIBLE CAMERA 52325

THERMAN

(EAR

with carry case, micro SD card, CD, USB cord, batteries and instructions



- Focus free
- Superior measurement/accuracy
- Micro SD card storage
- · Reporting software included

SPECIFICATIONS:

- Thermal image resolution:
- Visual image resolution:
- Measurement range:
- Thermal sensitivity:
- Frame rate:
- · Field of view:
- · Emissivity range:
- Focus:
- LCD size:
- I CD·
- Image storage:
- Memory type:
- Sensor filter:
- Interface:
- Battery type:
- Battery life (with back-lit):
- Dimensions:

32 x 31 pixels 640 x 480 -4 to 662°F (-20 to 350°C) Accuracy (tamb=20 to 26°C): ±2% of reading, or 4°F (2°C) whichever is greater

- 0.1°F (0.1°C) 9 Hz 40 x 40 dea 0.95 default - adjustable 0.1 to 1 step 0.1
- Focus free 2.8" (71 mm) Color Stores up to 25,000 images, BMP format (typical 8G micro SD card) Micro SD card 8 to 14 um USB 3.6V Li-ion rechargeable battery
- 3 hours continuous use 3.73 x 2.91 x 9.20 inch



DOWNLOAD OUR APP





14.2

VISIBLE CAMERA:

Visual



Fusion



52226 DUAL TEMP INFRARED/PROBE THERMOMETER

The 52226 dual temp thermometer offers both infrared and contact probe technologies.

Infrared temperature range: -67 to 428°F (-55 to 220°C)
Probe temperature range: -67 to 626°F (-55 to 330°C)
Field of view ratio 1 : 1
Adjustable emissivity
Lock mode for hands free scanning
Minimum/maximum capture mode
Contact probe locks safely on the side of the unit

52227 POCKET INFRARED THERMOMETER



The 52227 pocket infrared thermometer offers accurate noncontact temperature measurement in a compact and easy to use size.

- Temperature range: -67 to 428°F (-55 to 220°C)
- Field of view ratio 1 : 1
- Adjustable emissivity
- Back-lit LCD display
- Minimum/maximum capture mode



52228 DIGITAL DIFFERENTIAL THERMOMETER



The 52228 digital differential thermometer provides instant measurements of TWO points. (T1, T2) and T1 – T2.

- Max hold functionData hold function
- Temperature in °F or °C
- AUX output jacks
- T1 T2 differential
- Temperature range: -50 to 1999°F (-50 to 1300°C)
- Type K thermocouple input
- Resolution: 1°F (1°C)
- Includes two 3 ft (1m) thermocouple probes

52229 HAND-HELD WATERPROOF DIGITAL THERMOMETER

- Measuring range: -58 to 572°F / -50 to 300°C
- Wide measurement range
- Maximum/minimum temperature memory
- Celsius and fahrenheit exchange
- · Data hold function
- High/Low temperature alarm setting
- Key tone for operation confirmation
- Stainless steel probe
- Foldaway stand



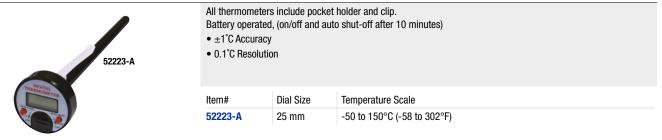


POCKET ANALOG DESIGNS



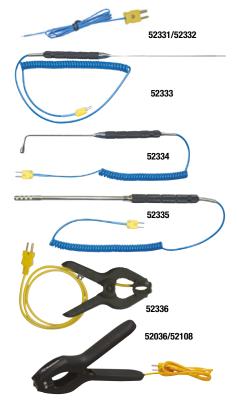
Item#	Dial Size	Temperature Scale
52220	25 mm	0 to 220°F
52161	35 mm	-40 to 160°F (-40 to 70°C)
91120	44.5 mm	0 to 220°F

POCKET DIGITAL DESIGN

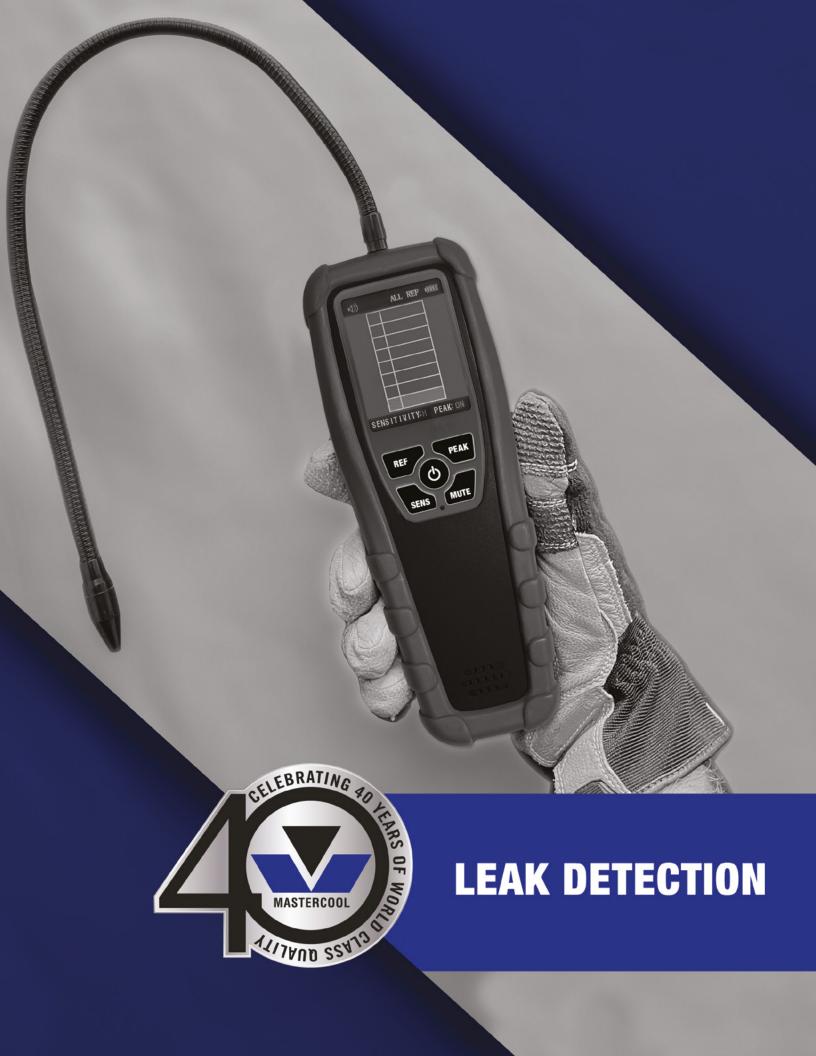


All thermometers include pocket holder and clip.

OPTIONAL THERMOCOUPLE PROBES



52331	Wire Probe - 3 ft (1 m)	
52332	Wire Probe- 10 ft (3 m)	
52333	Piercing Penetration Probe w/coil cord	
52334	Surface Probe w/coil cord	
52335	Air Probe w/coil cord	
52336	Clamp-On Probe - 3 ft (1 m)	
52036	Ergonomic Clamp-on K Type Probe (3 ft (1 m)) Mastercool's ergonomic clamp-on K type probe features a spring-loaded jaw for secure grip on pipes up to 1 5/8". The sturdy, hands-free design makes this the ideal tool for superheat/subcooling temperature measurement. This probe can used on any unit with a type K thermocouple input. • Maximum Clamp Size: 1 5/8" • Response Time: 3 seconds • Temperature Range: -40 to 250°F (-40 to 121°C) • Resolution: 0.2°F (0.1°C)	REF. CAN
52108	Ergonomic Clamp-on K Type Probe (10 ft (3 m))	





THE ONLY LEAK DETECTOR YOU WILL EVER NEED







LCD Display



- High sensitivity, fast response
- · Intelligent tip design senses environmental conditions to eliminate the potential of false alarms
- First progressive color LCD corresponds to the magnitude of the detected leak
- Detects: Combustible Gases, Hydrogen, Refrigerants (all CFC's, HCFC's & HFC's)

<< MEETS AND EXCEEDS J2791 (R134A), J2913 (R1234YF) AND EN 14624 >>

The 55800 leak detector employs a new metal oxide gas sensor for the detection of chlorofluorocarbon gases and blends. This tin oxide sensor is characterized by high sensitivity and a fast response, upon detecting the presence of extremely small levels of chlorofluorocarbon gases. Integrated into the design is a powerful microprocessor that automatically selects the best operating conditions for the sensor, to ensure optimum performance. The optimum sensor performance is maintained and monitored throughout the life of the sensor.

SPECIFICATIONS:

- Sensitivity: HIGH \ge 0.15 oz/yr (4.25 g/yr) / MEDIUM \ge 0.25 oz/yr (7 g/yr) / LOW \ge 0.5 oz/yr (14 g/yr) * based on optimal laboratory conditions
- Probe: Intelligent tip design that senses the condition of the environment, to eliminate the potential of false alarms. Flexible 16" probe for difficult to reach locations
- Display: Progressive LCD with vertical bars corresponding to the magnitude of the detected leak. Visual indication of the selected sensitivity range
- Refrigerants: Detects all refrigerants (CFC's, HCFC's, & HFC's), unit has been tested and approved to work with R1234yf as well as R32 and R410a
- · Sensor life: 2000 hours
- Operating temperature range: 0 to 140°F
- Power: Two (2) D Batteries
- · Battery life: 60 hours continuous use
- Weight: 1 lb. 8 oz

"SUPER SENSITIVE FUNCTION" allows the unit further sensitizing beyond the standard settings for locating small leaks with gases such as R1234yf and R407C

LCD FEATURES:

- WAIT: This indication flashes whenever the unit is in the wait mode. This could occur whenever the unit is turned on or interference is detected.
- READY: This indication appears when the unit is ready for use.
- INT: This indication appears whenever the microprocessor detects conditions that are not suitable for reliable leak detection. Excessive wind blowing, blocked probe (no air flow), burned out fan, or a missing or defective sensor that needs to be replaced.
- BATTERY SYMBOL: When the battery symbol becomes illuminated this is an indication that the battery is low and needs to be replaced.
- H M L: High, Medium and Low sensitivity ranges will be displayed accordingly based on the selection made on the keypad.
- SIGNAL LEVEL BARS: There are 10 vertical signal level bars on the display corresponding to the level of signal detected by the unit.
- ERROR SIGNALS: E1 through E9 indicates diagnostic signals.

KEYPAD FUNCTIONS:

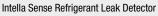
- ON/OFF: Press the ON/OFF button on the center of the keypad to turn the unit on or off.
- VOLUME/MUTE: Press the VOLUME/MUTE button to control the volume of the unit.
- H M L SENSITIVITY: Press the H M L SENSITIVITY button to select the desired sensitivity level.
- HOLD: Press the HOLD button to freeze the signal bars. Press the HOLD button again to disengage.
- PEAK: Press the PEAK button when multiple leaks are suspected as being present.

55800	IntellaSense Refrigerant Leak Detector packaged in a blow molded case with 2 "D" batteries, leak test vial and replacement filters
55800-FILTER	3 Replacement Filters
55800-VL	Leak Test Vial
55500-SEN	Replacement Sensor for 55800, 55900, 55975



Keypad





- Kit includes:
- Intella Sense Refrigerant Leak Detector
- Mini UV light (53513-UV)
- UV safety glasses (92398)
- 2 "D" batteries
- - Replacement filters (55800-FILTER)
 - Leak Test Vial (55800-VL)
 - Blow molded case (55800-PB)





Intella Sense III Combustible Gas Leak Detector is packaged in a blow molded case with 2 "C" batteries, leak test vial and replacement filters

· Response time: less than 1 second

• Operating temperature range: 0°F to 120°F

Sensor life: 2000 hours

<< MEETS AND EXCEEDS J2791 (R134A), J2913 (R1234YF) AND EN 14624 >>

SPECIFICATIONS

55975

- · Sensing element: heated tin oxide
- · Refrigerants: detects all refrigerants
- Battery: 2 "C" alkaline 6000 mAh batteries
- Ultimate sensitivity: 50 1000 ppm
- * based on optimal laboratory conditions PROBE:
- . Intelligent tip, with environment sensing element to eliminate the potential of false alarms
- Flexible 15.5 inch probe length for difficult to reach locations
- DISPLAY:

Six vertical LED's enabled selectively (red, yellow or green) to display the following information to the user such as:

- The relative signal level of the detected leak
- The selected sensitivity range (low, medium or high) of the unit
- Diagnostic information (low battery, interference/wait, contaminated atmosphere readiness of the unit or fault conditions of the unit)
- **KEYPAD CONTROLS:**

• ON/OFF, volume/mute, sensitivity for high, medium and low level selection, peak when multiple leaks are suspected DETECTS:

Acetone, Acetylene, Ammonia, Benzene, Butane, Butanel, Chlorine, Ethanel, Ethanel, Gasoline, Hexane, Hydrogen, Hydrogen Sulfide, Isobutane, Methane (natural gas), Methanol, Methyl Acetate, Methyl Chloride, Methyl Ether, Naptha, N-Butane, Pentane, Propane, Propanol, Sulfer Dioxide and Trichloroethane





ELECTRONIC LEAK DETECTION

56100



The Raptor Refrigerant Leak Detector offers state-of-the-art features and micro-processing technology while the design sensor delivers an accurate and instantaneous response. Packaged in a blow molded case with 2 "C" batteries and sensor tip.

FEATURES:

- Digital signal micro processor
- · Visual leak level indicator
- Reset function and keypad control
- · Sensitivity level adjustment
- Battery test function
- Variable frequency audible alarm
- Meets and exceeds SAE J1627

SPECIFICATIONS:

- 3 levels of sensitivity (5 levels of detection)
- Detects leaks as small as 1/10 oz per year* *based on optimal laboratory conditions
- · Detects all refrigerants (CFC's, HCFC's, HFC's)
- Power: 2 "C" batteries • Probe: flexible 16" (43 cm)

56200

with UV Blue Light

>>POPULAR<<



The Raptor Refrigerant Leak Detector with UV Blue Light offers state-of-the-art features and micro-processing technology while the design sensor delivers an accurate and instantaneous response. An ultra bright UV light is built into the end of the probe allowing for both electronic and UV leak detection of even the toughest leaks. Packaged in a blow molded case with UV glasses, 2 "C" batteries and sensor tip.

FEATURES:

- · Digital signal micro processor
- Mute function
- Visual leak level indicator
- · Reset function and keypad control
- Battery test function
- Sensitivity level adjustment
- Ultra bright UV/blue LED light
- Variable frequency audible alarm
- Meets and exceeds SAE J1627

SPECIFICATIONS:

- 6 levels of sensitivity (15 levels of detection)
- · Detects leaks as small as 1/10 oz per year* *based on optimal laboratory conditions
- Detects all refrigerants (CFC's, HCFC's, HFC's)
- · Power: 2 "C" batteries
- Probe: flexible 16" (43 cm)



COMPLETE ELECTRONIC & UV LEAK DETECTION KITS

The ultimate solution for all your A/C leak detection needs.



- 56300 Kit includes: 56200 "Raptor" electronic leak Detector with UV blue light, UV dye injector w/25 application dye cartridge, dye injector connection hose w/ 1/4" FL adapter, dye cleaner & UV safety glasses, comes in a custom molded carrying case
- 56310 Kit includes: 56200 "Raptor" electronic leak detector with UV blue light, UV dye injector w/10 application dye cartridge, dye injector connection hose w/ 1/4" FL adapter, dye cleaner & UV safety glasses, comes in a custom molded carrying case
- 56400 Kit includes: 56200 "Raptor" electronic leak detector with UV blue light, refillable dye injector, dye injector connection hose w/ 1/4" FL adapter, 2 oz bottle of concentrated universal dye, UV safety glasses & dye cleaner, comes in a custom molded carrying case



>>POPULAR<<

55600-A Black Series INFRARED REFRIGERANT LEAK DETECTOR



PROVIDING A RELIABLE SOLUTION TO EFFICIENTLY FINDING SENSITIVE LEAKS

Mastercool's hand-held infrared refrigerant leak detector uses an infrared sensor to effectively identify halogenated gases. The ergonomic design and rugged construction provides effortless refrigerant leak detection all while allowing the technician to easily adjust sensitivity to adapt to different environments.

This superior IR (infrared) leak detector detects the refrigerant by scanning the area in a slow target scan mode. Moving the sensor back and forth until the alarm sounds; the IR sensor zeros out when held over a leak. This unit provides the same trigger conditions for all refrigerants which is an advantage over other technologies that work better for some refrigerants than others.

Packaged in a zippered carry case this kit includes the 55600-A infrared refrigerant leak detector, charging cable and replacement filters.



FEATURES:

- Innovative infrared sensor offers an extended sensor life of 10 years
- Easily select high, medium and low sensitivity levels with a maximum sensitivity up to 0.14 oz/yr
- Smart sensor technology allows for the selection of popular refrigerants such as R134a, R404a, R407C, R410A and R1234yf with a default setting that detects HFC's, HCFC's, CFC's, PFC's and HFO's
- Advanced TFT screen provides clear and easy readings using color graphics that show leakage, sensitivity, battery level and sensor fault indicators
- · Peak button indicates the maximum leak detected during measurements
- Auto-off function will automatically shut down the unit after 10 minutes
- Designed to meet EN14624, SAE1627, SAE2791 and SAE2913 standards

APPLICATIONS:

- Responds to all halogenated refrigerants including but not limited to: HFC's (R134a, R410A, R407C, R417A, R404A, R507, R23, R508B, R152a, R32) HCFC's (R22, R123, R124, R141b, R142b, R402A, R402B, R408, R409) CFC's (R11, R12, R13, R500, R502, R503) PFC's (PFC-14, PFC-116, PCF-218) HFO's (R1234yf)
- Responds to blends such as R410A and R407
- Detects SF-6 in high voltage circuit breakers
- Detects halogen gases in fire-extinguishing systems

SPECIFICATIONS:

- Sensor: UV spectrum absorption
- · Sensor life: 10 years
- Alarm mode: visual and audible
- Display: high resolution bright TFT active matrix LCD
- · Automatic shutdown: 10 minutes without operation
- Operating temperature: 14 to 125.6°F (-10 to 52°C)
- Operating relative humidity: 50% to 85% RH
- Storage temperature: -4 to 140°F (-20 to 60°C)
- Probe length: 14.37"
- Battery: rechargeable (6 hours of detection)
- Weight: 15 oz.
- Size: 7.8 x 3 x 1.5"



ELECTRONIC LEAK DETECTION

55745-BL Black Series INFRARED CO2 LEAK DETECTOR



EXTREMELY EFFECTIVE AT LOCATING CO2 LEAKS

Mastercool's hand-held CO₂ leak detector uses an advanced infrared sensor to effectively pinpoint R744 (CO2). The efficient design and rugged construction provides effortless leak detection all while allowing the technician to easily adjust sensitivity to adapt to different environments.

Packaged in a zippered carry case, this kit includes the infrared CO₂ leak detector, charging cable and replacement filters.



FEATURES:

- Flexible probe is easy to use and extremely effective at locating difficult leaks
- Advanced infrared sensor with a sensor life of 40,000 hours
- Easily select high, medium and low sensitivity levels
- Advanced TFT screen provides clear and easy readings using color graphics that show leakage, sensitivity, battery level and sensor fault indicators
- Peak button indicates the maximum leak detected during measurements
- Auto-off function will automatically shut down the unit after 10
 minutes
- Compliant to RoHS, SAE-J1627 and EN14624

SPECIFICATIONS:

- Sensor life: 40,000 hours
- Sensitivity: High < 350 ppm at 350 ppm ambient Low < 3500 ppm at 350 ppm ambient
- Alarm mode: visual and audible
- · Display: high resolution bright TFT active matrix LCD
- Automatic shutdown: 10 minutes without operation
- Reset time: <3 seconds
- Warm-up time: 30 seconds
- Response time: <1 second
- Refrigerants: R744 (CO2)
- Battery: rechargeable (8 hours of detection)
- Storage temperature: -20 to 60°C (-4 to 140°F)
- Operating temperature: -10 to 52°C (14 to 125.6°F)
- Humidity: maximum 90% RH (non-condensing)
- Probe length: 14.37"
- Weight: 15 oz.
- Size: 7.8 x 3 x 1.5"



53518-UV RECHARGEABLE 110 V HIGH INTENSITY LED UV FLASHLIGHT



- AAA battery holder provides backup power to flashlight (3 AAA batteries included)
- Battery life: 3 to 5 hours continuous leak detection
- Includes safety glasses and 110 V charger

SPECIFICATIONS:

- Lamp power: 2W
- \bullet 154 170 $\mu\text{W/cm2}$ which is compatible to a 50 watt UV flashlight
- UV wavelength: 390-400
- Illumination mode: on-off
- \bullet Battery: lithium li-ion, full discharge and cut-off discharge of 4.2V and 2.75V



53513-UV MINI UV FLASHLIGHT (LED)



- High intensity LED bulb UV illumination
- Easy grip texture
- · Aluminum body with anodized finish
- 25,000 hour bulb life
- 3 AAA batteries
- Includes safety glasses
- UV wavelength: 390-400

53515 MACH IV FLEXIBLE UV LIGHT (LED)



The Mach IV flexible UV light has 4 TRUE UV LEDS delivering a brilliant fluorescent glow.
Gets into tight areas easily.
Includes UV enhancing safety glasses
PATENT NO. 6,647,761

53515-BLight bulb53515-BAT-2CR2 lithium battery

STANDARD UNIVERSAL ULTRAVIOLET A/C DYES



<used with 53123, 53322, 92376 Injectors>

- 92699 Standard Universal Dye Six 1/4 oz (7.5 ml) packs - 1 application
 92708 Standard Universal Dye 8 oz (240 ml) ester (POE) oil base bottle.
 - 8 oz (240 ml) ester (POE) oil base bottle -32 applications
- 92732 Standard Universal Dye 32 oz (1 L) ester (POE) oil base bottle -128 applications

CONCENTRATED UNIVERSAL ULTRAVIOLET A/C DYES

53625



<used with 53223 Injector>

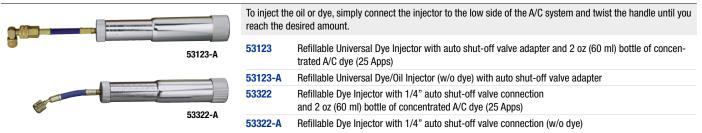
53825 Concentrated Universal Dye Cartridge replaceable cartridge (ester (POE) oil base) - 25 applications

<used with 53123, 53322, 92376 Injectors>

Concentrated Universal Dye 2 oz (60 ml) ester (POE) oil base bottle -25 applications



REFILLABLE UNIVERSAL OIL/DYE INJECTOR



53223 "CARTRIDGE TYPE" UNIVERSAL DYE INJECTOR



Adding dye with the 53223 is fast and easy, simply connect the injector to the low side of the A/C system and twist the handle to the next application line. The replaceable cartridge provides 25 applications of universal dye that is compatible with all systems. The injector hose comes complete with an auto shut-off valve adapter for 1/4" FL systems.





SERVICE ACCESSORIES & CONSUMABLES

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INNER NYLONLI



"MASTERCLEANSE" FLUSH MACHINE



Mastercool's "MASTERCLEANSE" large volume flush machines are designed to flush all HVAC/R and automotive systems. "MASTERCLEANSE" will be commonly used for the removal of all solids and residues caused by breakage of compressor or filters. Designed with durable roll-away wheels and handle, this machine can conveniently move as needed.

FEATURES:

- · Stainless steel ball valve controls
- 1/4" SAE connection
- Additional external container connection
- External nitrogen bottle connection
- Pump equipped with mechanical seal and PTFE gasket
- Mechanical filter present at suction side

SPECIFICATIONS:

- Pump flow rate: 4 g/min (16 l/min)
- Pump motor: 300 watts
- Pump horsepower: 110V/60 Hz - 0.4 HP, 220-240V/50/60 Hz - 0.28 HP
- Full load amperage: 110V/60 Hz 2.4 amps, 220-240V/50/60 Hz 1.7 amps
- Flush container: 2.6 gal (10 l)
- Hoses: 9 ft (3 m) flexible, clear coiled
- Dimensions:
- 15" (l) x 16" (w) x 24" (h) / with handle extended 36" (h) (381 mm (l) x 406 mm (w) x 609 mm (h) / with handle extended 914 mm (h))
- Weight: 42 lbs (19 kg)

Solvent based

69900 110 V / 60 Hz 69900-220 220-240 V / 50/60 Hz



A/C FLUSH SOLVENT



 Evaporates quickly 		
Leaks no residue		

Effectively removes debris and sludge from A/C components.

91049-32	32 oz. Flush Solvent
91049-32-6	6 pack - 32 oz. Flush Solvent
91049-128	1 Gallon Flush Solvent
91049-128-4	4 pack - 1 Gallon Flush Solvent

TOTAL A/C QUICK FLUSH



Specific fluid for the inner flushing of air conditioning and refrigeration systems

91051	Total A/C Quick Flush Kit	
91050	17 oz. Total A/C Quick Flush Can	
91050-6	6 Pack - 17 oz. Total A/C Quick Flush Can	



CE

Directive

NITROGEN PRESSURE REGULATOR



Mastercool's nitrogen regulator is specifically designed to meet the specifications of HVAC/R A/C systems. This single stage nitrogen regulator is used to test systems for leaks when they do not contain refrigerant.

- \bullet 1/4" SAE flare outlet port, with control valve, to keep pressure on the regulator at all times
- T-Handle for ease of pressure adjustment
- 63 mm (2 1/2") gauges with guards
 High pressure gauge 4400 psig (300 bar

Teflon Washer

97/23/EC Low pressure gauge 1000 psig (70 bar) 53001 Pressure Testing Regulator CGA580 (US) standard, 1/4 FL-M outlet connection 53010 Pressure Testing Regulator Kit Pressure testing regulator (53001), 38" yellow charging hose (47382), leak testing adapter (53042), R410a straight adapter 1/4 FL-M x 5/16 swivel-F (90413), blow molded case (53000-PB) **OPTIONAL ACCESSORIES** 90413 R410a Straight Adapter 1/4" FL-M x 5/16" Swivel-F 53042 Leak Testing Adapter 53000-42 Leak Testing Gauge 53000-70 Low Pressure Regulator Gauge 53000-300 **High Pressure Regulator Gauge** 47382 38" Yellow Charging Hose 93254-E Black Gauge Guard

ACCESSORIES



53314	Dye Remover 4 oz (120 ml)
53315	Service Labels 25 per pack, bright yellow label indicating that the system has been charged with UV Dye
92398	UV Enhancing Safety Glasses This is a must for protection against ultraviolet light during leak detection

90935 ALUM BOND (6.5 oz package)



A two-component epoxy formula highly concentrated with carefully selected pure aluminum particles, modified curing agents and special high quality additives to provide maximum strength, durability and ease of application. Alum Bond is aluminum filled epoxy specially formulated for repairing condenser coils, tanks, valves, pumps, castings, water jackets, radiators, etc., where non-rusting, non-magnetic aluminum finish is desired.

PHYSICAL PROPERTIES:

53000-W

- Hardness (Shore, ASTM D 1706): 83D
- Coefficient of thermal expansion: 40 x 10-6 cm/cm/°C
- Compression strength (ASTM D 695): 8600 psi (59 M Pa)
- Tensile strength (ASTM D 638): 3500 psi (24 M Pa)
- Maximum line pressure (after 5 hours application time): 650 psi





90936 HVAC SUPER PRO KIT (1.85 oz, 50g) packaged in a clamshell







LIFETIME SOLDERLESS BONDING FOR COPPER, BRASS & ALUMINUM

- Compatible with all refrigerants and oils
- Holds 850 psi of refrigerant pressure 12 minutes after bonding (20 minutes for aluminum)
- · Holds 1200 psi of refrigerant pressure fully cured
- In 12 minutes the bond will withstand 850 psi of refrigerant pressure
- · Bonding time in 1 minute for aluminum and is set in 4 minutes
- Approximately 2 hours is fully cured and will withstand 1200 psi of refrigerant pressure
- Starts to set up in 20 seconds and forms a solid bond in 3 minutes
- Makes approximately 200 bonds on 1/2 inch pipe
- Temperature Range -65° to 350°F (-54° to 176°C)
- Adherence Strength (ASTM 4541): Pull Apart 1500 foot pounds, Rotational 450 foot pounds

BLOWER FANS

⊗ Mastercoot	This multi-functional product allows equipment to not only work faster but more efficiently while also helping to extend its life.
	• 120 Volts, 60 Hz
	For indoor or outdoor use
MEEPTALE	 3 speed switch (high, medium, low)
	Built-in overload protection
	(2 pcs) 11 amp built-in grounded receptacles
	Housing material: impact resistant ABS
	8.5 ft cord length, SJTW 14AWG
	4-position adjustment feet
	1200 CFM BLOWER FAN• Moves air up to: 1200 CFM• Rated power: 2.0 Amp• Unit weight: 15.9 lbs
	200 CEM PLOWED FAN

- 300 CFM BLOWER FAN
- Moves air up to: 300 CFM
 - Rated power: 1.0 Amp
 - Unit weight: 11.5 lbs

20300-HTR HEATER ATTACHMENT FOR 300 CFM BLOWER FAN



- Mastercool's heater attachment for a 300 CFM blower fan transforms the blower fan into a proficient heater.
- 1320 Watts, 120 Volts
- 11 Amps, 5000 BTU
- Converts blower into a heater
- Clips securely onto the front of the blower and plugs into one of the outlets on the side of the blower
- 16 AWG SJT cord, grounded plug



Dilasteron

TUBE & HOSE FORMING



HYDRA-SWAGE



71600-A



Fabricates and expands copper, aluminum and soft steel tubing using hydraulic power. PATENT# 6,619,099

TUBE EXPANDING TOOL KIT (7 HEAD KIT) consists of expander heads 3/8, 1/2, 5/8, 3/4, 7/8, 1 and 1 1/8", hydra-swage 71601-A, adapter and inner-outer reamer

71650-A

TUBE EXPANDING TOOL KIT (10 HEAD KIT) consists of expander heads 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1 1/8, 1 3/8, 1 5/8, and 2 1/8", hydra-swage 71601-A, adapter and inner-outer reamer



71650-A

PART#	DESCRIPTION	TUBE O.D.
71601-A	Hydra-Swage	
71601-D	Adapter for 71601-A	
71685	Inner - Outer Reamer	
71600-PB	Molded Box for 71600-A, 71600-AM & 71650-A	
71600-03	Expander Head	3/8"
71600-04	Expander Head	1/2"
71600-05	Expander Head	5/8"
71600-06	Expander Head	3/4"
71600-07	Expander Head	7/8"
71600-08	Expander Head	1"
71600-09	Expander Head	1 1/8"
71600-11	Expander Head	1 3/8" (35 mm)
71600-13	Expander Head	1 5/8"
71600-17	Expander Head	2 1/8" (54 mm)

HYDRAULIC FLARING AND EXPANDING





71676

Mastercool introduces the newest members of its hand-held hydraulic line of tubing tools. These new kits are an upgrade to the existing hydra-swage expanding kits, allowing the user to easily make OEM flares with a pump of the handle.

71675 COMPLETE HYDRAULIC FLARING AND EXPANDING KIT (7 HEAD KIT) consists of expander heads 3/8, 1/2, 5/8, 3/4, 7/8, 1 and 1 1/8", hydra-swage 71601-A, adapter, inner-outer reamer and hydraulic flaring accessory 71680 packaged in a blow molded case

71676 COMPLETE HYDRAULIC FLARING AND EXPANDING KIT (10 HEAD KIT) consists of expander heads 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1 1/8, 1 3/8, 1 5/8, and 2 1/8", hydra-swage 71601-A, adapter, inner-outer reamer and hydraulic flaring accessory 71680 packaged in a blow molded case







71680 HYDRAULIC FLARING ACCESSORY



Add the 71680 to your existing Mastercool hydraulic expanding kits to allow for the ability to make OEM flares with a simple pump of the handle.

71700 HYDRAULIC FLARING & SWAGING TOOL





This kit features a hand-held hydraulic press that accurately flares & swages copper tubing. Once the die and adapter are secured in the fixture, a few pumps of the handle and you're done! This tool really takes the work out of swaging and flaring, especially on larger tube sizes.

The kit includes dies and adapters for flaring and swaging copper tubing sizes 1/4, 5/16, 3/8, 1/2, 5/8, 3/4 and 7/8." Comes in custom molded carrying case.

PATENT# 5,782,128





The copper tube is secured in the holding fixture by the forming dies. The hydraulic pump pushes in the forming adapter to fabricate the flare or swage.

71700-A	Flaring & Swaging Pump
71700-B	Yoke Assembly
71700-PB	Plastic Molded Box
71700-01	45° Flaring Cone
71700-04	1/4" Swaging Adapter
71700-05	5/16" Swaging Adapter
71700-06	3/8" Swaging Adapter
71700-08	1/2" Swaging Adapter
71700-10	5/8" Swaging Adapter
71700-12	3/4" Swaging Adapter
71700-14	7/8" Swaging Adapter
71700-104	1/4" Die Set
71700-105	5/16" Die Set
71700-106	3/8" Die Set
71700-108	1/2" Die Set
71700-110	5/8" Die Set
71700-112	3/4" Die Set
71700-114	7/8" Die Set
71685	Inner-Outer Reamer
70087	Steel Brush Thread Cleaner



ONLY ECCENTRIC FLARING TOOL ON THE MARKET TO COVER UP TO 7/8"



Make the perfect flare every time.

Keeping with tradition, Mastercool introduces the newest addition to our flaring tool line. This eccentric flaring tool is the only tool on the market to cover up to 7/8" making the job of the HVAC/R technician easier everyday! Its automatic torque release prevents cracking of copper caused by over flaring. Flares 6 sizes: 1/4, 3/8, 1/2, 5/8, 3/4, 7/8" 0.D. Tubing

Kit includes: 70059 eccentric flaring tool, 71685 inner-outer reamer, 70033 heavy duty tube



Railing allows yoke to smoothly travel while keeping the flaring tool and bar aligned

cutter for (1/8" - 1 1/8") 4 to 28 mm

Flares 6 sizes: 1/4, 3/8, 1/2, 5/8, 3/4, 7/8" 0.D. tubing



3/8" access drive allows for use with impact wrench

ECCENTRIC FLARING TOOLS



<< NEW AND IMPROVED >>

Aluminum design

70059

70060

- · Light weight and durable
- Automatic torque release
- 70057-A Flares 6 Sizes: 1/4, 5/16, 3/8, 1/2, 5/8 and 3/4" 0.D. tubing

70058-A Kit includes: 70057-A eccentric flaring tool, 71685 inner-outer reamer, 70033 heavy duty tube cutter for (1/8 – 1 1/8") 4 to 28 mm. 0.D. tubing (1/4 to 1" nominal)

70051 STANDARD 45° FLARING TOOL

Durable forged steel slip-on yoke. Flaring bar is hardened, highly polished and nickel chrome plated. Auto centering yoke features bearing driven hardened cone for easy flaring. Flares 7 sizes: 3/16", 1/4", 5/16", 3/8", 7/16", 1/2" and 5/8" 0.D. tubing.



70052 SLIDING DIE-BLOCK 45° FLARING TOOL

Uniquely designed flaring cone flares and burnishes in one easy operation. Slide-on yoke is simple to use. Hardened multi-size flaring bar speeds flaring time. Flares and burnishes 6 sizes: 3/16", 1/4", 5/16", 3/8", 1/2" and 5/8" 0.D. tubing.



70056 LARGE CAPACITY 45° FLARING TOOL

Flares large tube sizes. Hard chrome plated, swivel flaring cone makes flaring quick and easy. Flaring bar is hardened and nickel chrome plated. Flares 4 sizes: 5/8", 3/4", 7/8" and $1 \ 1/8$ " 0.D. tubing.





70091 45° FLARING & CUTTING TOOL SET

45° Flaring & Cutting Tool Set includes:

- 70033 Heavy Duty Tube Cutter for 1/8" to 1 1/8"
- 70051 Standard 45° Flaring Tool flares 7 sizes: 3/16", 1/4", 5/16", 3/8", 7/16", 1/2" and 5/8" O.D. tubing



70093 45° SLIDING DIE-BLOCK FLARING & CUTTING TOOL SET

Includes heavy duty tube cutter (70033) and sliding die-block flaring tool (70052.) Uniquely designed flaring cone flares and burnishes in one easy operation. Slideon yoke is simple to use. Hardened multi-size flaring bar speeds flaring time.

45° Sliding Die-Block Flaring & Cutting Tool Set includes:

- 70052 45° Flaring Tool flares and burnishes 6 sizes: 3/16", 1/4", 5/16", 3/8", 1/2" and 5/8" O.D. tubing
- 70033 Heavy Duty Tube Cutter for 1/8" to 1 1/8" O.D. tubing



45° FLARING, DOUBLE FLARING & CUTTING TOOL SET 70092

The 70092 tool set includes a heavy duty tube cutter for 1/8 to 1 1/8" tubing, standard 45° flaring tool flares 7 sizes: 3/16, 1/4, 5/16, 3/8, 7/16, 1/2 and 5/8" O.D. tubing and 5 double flaring adapters for 3/16, 1/4, 5/16, 3/8 and 1/2" O.D.

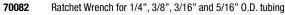


WIDE RANGE 45° FLARING & CUTTING TOOL SET 70094

Includes heavy duty tube cutter (70033) and wide range flaring tool (70054) with rugged forged steel slip-on yoke. Flaring bars are hardened, highly polished and nickel chrome plated.

Wide Range 45° Flaring & Cutting Tool Set includes:

- 70054 Flaring Tool flares 9 sizes: 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 5/8" and 3/4"
- 70033 Heavy Duty Tube Cutter for 1/8" to 1 1/8" O.D. tubing





70053 45° FLARING & SWAGING TOOL SET



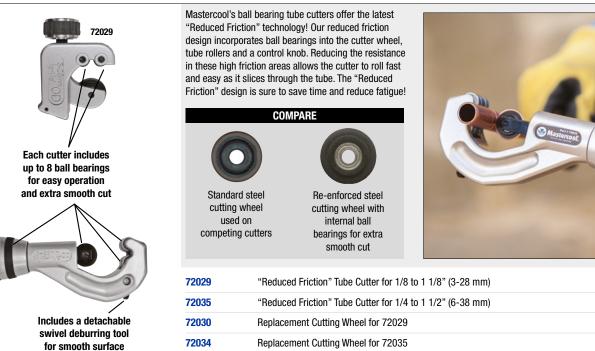
🕾 Mastercool

Durable forged steel slip-on yoke. Bars are chrome plated, hardened steel. Swages in close quarters where punch style cannot be used. Includes custom molded plastic box. 45° Flaring & Swaging Tool Set includes:

Two Flaring Bars covering 9 sizes: 1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8 and 3/4" O.D. Tubing. Five Swaging Adapters covering 7 sizes: 3/16, 1/4, 5/16, 3/8, 1/2, 5/8 and 3/4" O.D. Tubing.



BALL BEARING CUTTERS



TUBE CUTTERS

72035



Mastercool tube cutters are lightweight yet durable. Carbide steel cutting wheels work with hard and soft copper, aluminum, brass, thin wall steel and stainless steel. All cutters feature rollers with flare cut-off grooves to salvage as much old tubing material as possible.

70027	Mini Tube Cutter for 1/8 to 5/8" (3-16 mm) O.D. Tubing (1/8 to 1/2" Nominal)
70029	Mini Tube Cutter for 3/8 to 1 1/8" (4-28 mm) 0.D. Tubing (1/4 to 1" Nominal)
70033	Heavy Duty Tube Cutter for 1/8 to 1 1/8" (4-28 mm) 0.D. Tubing (1/4 to 1" Nominal)
70035	Heavy Duty Tube Cutter for 1/4 to 1 5/8" (6-40 mm) 0.D. Tubing (1/4 to 1 1/2" Nominal)
70037	Sliding Ratchet Tube Cutter for 1/4 to 2 3/4" Nominal), Triple Chrome Plated
70038	Sliding Ratchet Tube Cutter for 1/4 to 3 1/2" (6-89 mm) 0.D. Tubing (1/4 to 3" Nominal)



TUBE CUTTER KIT



70090 contains:

70027 Mini tube cutter for 1/8" to 5/8" 0.D. tubing (1/8" to 1/2" nominal) **70029** Midi tube cutter for 3/8" to 1 1/8" 0.D. tubing (1/4" to 1" nominal)

- 70033 Heavy duty tube cutter for 1/8" to 1 1/8" 0.D. tubing (1/4" to 1" nominal)
- 70090-A contains:
 - **70027** Mini tube cutter for 1/8" to 5/8" 0.D. tubing (1/8" to 1/2" nominal)
 - 70029 Midi tube cutter for 3/8" to 1 1/8" O.D. tubing (1/4" to 1" nominal)
 - **70033** Heavy duty tube cutter for 1/8" to 1 1/8" 0.D. tubing (1/4" to 1" nominal)
 - 70037 Heavy duty tube cutter for 1/4" to 2 5/8" 0.D. tubing (1/4" to 2 3/4" nominal)

RATCHET STYLE TUBE CUTTER



When you don't have swing room, ratchet action allows cutting all the way around the tubing easy.

70030 (1/4 to 7/8" 0.D. tubing) **70031** (5/16 to 1 1/8" 0.D. tubing)

70025 CAPILLARY TUBE CUTTER



Cuts all sizes of capillary tubes without collapsing the tube.

80021 PLUMBERS TYPE MINI CUTTER



Designed for applications with limited working space. Cuts soft copper, aluminum and thin wall steel tubing. Tube cutter for 1/8 to 7/8" (4-22 mm) 0.D. tubing. (1/8 to 3/4" nom.)

80121 Spare Cutting Wheel for 80021

REPLACEMENT CUTTER WHEELS

O 70028	0	0
	70034	70233

	Replacement Cutting Wheels for 70027 (10 pcs)
70028	heplacement outling wheels for 70027 (10 pcs)
70034	Replacement Cutting Wheels for 70029, 70030, 70031, 70033, 70035, 70037 (10 pcs + 1 holding screw)
70128	Carbide Cutting Wheel & Screw Set for 70027 includes: 2 spare cutting wheels and 1 holding screw
70134	Carbide Cutting Wheel and Screw Set for 70029, 70035. Includes: 2 spare cutting wheels and 1 holding screw
70138	Replacement Cutting Wheel for 70038 (1 per pkg.) Cut hard and soft copper, aluminum, brass, thin wall steel and stainless steel
70233	Tube Constrictor Wheel used with 70033 and 70035
70237	PVC Cutting Wheel for 70037. Cuts PVC and ABS
70238	Oversize PVC Cutting Wheel for 70038. Wheel is 1 5/8" diameter. Cuts PVC and ABS



70069-A 4-IN-1 LEVER STYLE TUBE BENDER



Complete 180° bend all metal multi-purpose tube bender for 3/16, 1/4, 5/16 and 3/8" 0.D. tubing.

SPRING STYLE TUBE BENDERS



Economical and effective tools for bending soft copper or aluminum tubing without kinks. Special nickel plated, spring steel is flared on one end for quick tube insertion. Each tool bends one size.

MODEL#	SIZE	LENGTH
70071	1/4"	10"
70072	5/16"	10"
70073	3/8"	10"
70074	1/2"	12"
70075	5/8"	14"
70077	3/4"	14"

70076 SPRING STYLE TUBE BENDER SET



Set of 5 spring benders for 1/4, 5/16, 3/8, 1/2 and 5/8" 0.D. tubing.

LEVER STYLE TUBE BENDERS





Open side design slips over tube at any point. Makes smooth short radius bends up to 180° with minimum effort. Calibrated to show angle of bend. Easy 90° start requires much less effort to make fast and accurate bends. Each tool bends one size.



MODEL #	OUTSIDE DIAMETER OF TUBING	NOMINAL SIZE	RADIUS TO CENTER OF TUBE
70061	1/4"	1/8"	9/16"
70062	5/16"	-	11/16"
70063	3/8"	1/4"	15/16"
70064	1/2"	3/8"	1 1/2"
70065	5/8"	1/2"	2 1/4"
70066	3/4"	5/8"	3"
70067	7/8"	3/4"	3"



70070 "Ratchet Style" TUBE BENDER KIT - 5 SIZES



- Hand-operated ratchet design bends tubes easily
- Bends 5 sizes: 3/8, 1/2, 5/8, 3/4 and 7/8" 0.D. soft tubing
- Includes heavy duty tube cutter for 1/8 to 1 1/8" O.D. tubing
- Includes inner-outer reamer for 3/16 to 1 1/2" 0.D. tubing
- Comes in custom molded case





Bends: 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8" O.D. tubing



PUNCH-TYPE SWAGING TOOLS



Enlarge one end of copper tubing to accept piece of original size tubing then solder together like a fitting. Tools are heat treated for durability.

70040	All-in-one swaging punch nickel-chrome finish. Swages 1/4, 5/16, 3/8, 1/2 and 5/8"
70048	Set of 5 swaging punches for 1/4, 5/16, 3/8, 1/2 and 5/8" O.D.
70049	Flaring bar and set of 5 punches for 1/4, 5/16, 3/8, 1/2 and 5/8" O.D. all in case

MODEL#	SIZE	LENGTH
70041	1/4"	1/8"
70042	5/16"	-
70043	3/8"	1/4"
70044	1/2"	3/8"
70045	5/8"	1/2"
70046	3/4"	5/8"
70047	7/8"	3/4"

70078 TORQUE WRENCH



Ensures accurate tightness of fittings, especially R410A. Kit in a blow molded case includes sizes: 17, 22, 24, 26, 27 and 29 mm.

Optional Wrench Sizes Available:

70078-19	19 mm	70078-28	28 mm
70078-25	25 mm	70078-32	32 mm



RATCHET WRENCHES



70081Steel Forged Wrench with Reversible Ratchet.
9/16", 1/2" hex, 1/4" and 3/16" square.

70082 Compact Chrome Satin Wrench specially designed for use in hard to reach places. 1/4, 3/8, 3/16 and 5/16" square ratchet.

70088 1/4" TUBE PIERCING PLIER



70088-TIP Replacement Tip for 70088

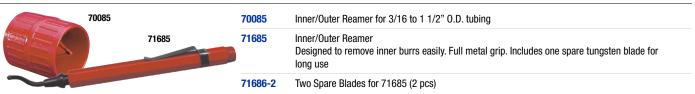
70083 PINCH-OFF PLIER



Specially designed for the refrigeration industry. Pinches off and locks on copper tubing. • Size: Throat 7"

- Depth 1"
- Jaw thickness 1/4"

INNER-OUTER REAMERS



70200-MSK MINI-SPLIT TOOL KIT



TUBING TOOL SELECTION CHART

Г

+ Tubing should be torch annealed before flaring.

	TYPES OF TUBING													
			COPPE	R					ST	EEL	S	STAINLES	S	
		Ту	oe K		Type L									
Type of Tool Size Range Tube O.D.	Annealed (Soft) Gen. Purpose	Annealed (Soft) Gen. Purpose	Soft	Hard	Soft	Hard	Type M	Annealed Aluminum (Soft)	Annealed Brass (Soff)	S.A.E. 1010 (Soft)	Brazed- Bundy GM	Annealed Soft	1/8 Hard	Titanium
Tube Cutters														
70027 1/8 - 5/8"	*	*	*	*	*	*	*	*	*	*	*	*	*	
70029 3/8 - 1 1/8"	*	*	*	*	*	*	*	*	*	*	*	*	*	
70033 1/8 - 1 1/8"	*	*	*	*	*	*	*	*	*	*	*	*	*	
70035 1/4 - 1 5/8"	*	*	*	*	*	*	*	*	*	*	*	*	*	
70039 3/8 - 2 5/8"	*	*	*	*	*	*	*	*	*	*	*	*	*	
72029 1/8 - 1 1/8"	*	*	*	*	*	*	*	*	*	*	*	*	*	
72035 1/4 - 1 1/2"	*	*	*	*	*	*	*	*	*	*	*	*	*	
45° Flaring & Expanding Tools														
70051 3/16 - 5/8"	*	*		*		+	*	*						
70052 3/16 - 5/8"	*	*		*		+	*	*						
70053 1/8 - 3/4"	*	*		*		+	*	*						
70054 1/8 - 3/4"	*	*		*		+	*	*						
70056 5/8 - 1 1/8"	*	*		*		+	*	*						
71600-A 3/8 - 1 1/8"	*	*		*		+	*	*						
71650-A 3/8 - 2 1/8 "	*	*		*		+	*	*						
71700 1/4 - 7/8"	*	*		*		+	*	*						
45° Double Flaring Tool 70092 3/16 - 1/2"	*			*			*	*		*				
Reaming and Deburring Tools														
70085 3/16 - 1 1/2"	*	*	*	*	*	*	*	*						
71685	*	*	*	*	*	*	*	*						
Bending Tools														
70061-70069 1/4 - 7/8"	*	*		*			*	*	*	*	*			
70071 - 70077 1/4 - 3/4"	*	*		*			*	*						
70070 3/8 - 7/8"	*	*		*			*	*	*	*	*			
Tube Constrictor 70233 1/8 - 1 5/8"	*	*		*			*	*						
Swaging Tools 70040 - 70049 1/4 - 7/8"	+	+		+			+	+						



MC-HANGER MASTERCOOL MAGNETIC HOOK



Mastercool's heavy-duty magnetic hanger is designed for use with any A/C manifold in the market. The MC-HANGER is constructed with a robust magnet that is capable of holding in excess of 50 lbs and finished with a black anodized exterior to ensure durability. The knob style allows the technician to securely hang any manifold for hands free operation while the bale provides added functionality on challenging surfaces such as hanging a manifold from underneath a steel car hood.

• Dimensions: 56 mm radius



MC-DISP STEEL DISPLAY



Steel display with light box to promote Mastercool products.

- Four tier cold rolled steel black display
- Adjustable shelves
- 900 x 410 x 1900 mm
- Each tier can bear 65 kg of weight
- Shipped with 220 V schuko plug, 110 V standard US transformer available upon request

MC-CRDBD-DISP-21 FULL COLOR CARDBOARD DISPLAY

- Cardboard display to promote Mastercool products.
 - Full color, 3 tier cardboard display
 - · Pegs included for hanging product on first tier
 - Dimensions: 1828 mm (h) x 508 mm (w) x 724 mm (d)





APPAREL



This T-shirt is made with 100% combed ringspun, preshrunk cotton material and features Mastercool's screenprinted logo on the front.

Adult-size solid-color cotton hat features Mastercool's embroidered logo on the front. Cloth strap with buckle closure in back.

MC-SHIRT-MS	Medium Silver T-Shirt
MC-SHIRT-LS	Large Silver T-Shirt
MC-SHIRT-XLS	Extra Large Silver T-Shirt
MC-SHIRT-MB	Medium Black T-Shirt
MC-SHIRT-LB	Large Black T-Shirt
MC-SHIRT-XLB	Extra Large Black T-Shirt
MC-HAT	Hat

MC-BANNER12-LG LARGE VINYL BANNER



Heavy-Duty vinyl banner with grommets for easy hanging.Dimensions: 48" (w) x 24" (h)

MC-SIGN12-SM CARDBOARD SIGN



COUNTERPAD-22 COUNTERPAD



Counterpad features a scratch resistant surface and non-slip base to provide durability.

• Dimensions: 20" (w) x 14" (h)

MC-BACKPACK MASTERCOOL BACKPACK



Mastercool branded backpack with top zip and adjustable shoulder straps. Pockets on all sides as well as a front velcro close pocket.



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