



2024 AUTOMOTIVE PROMOTION

INTUITIVE DESIGN, ELEVATED EFFICIENCY,
IMPROVED PERFORMANCE

ARCTIC COMMANDER 2.0 NEW

RECOVERY/RECYCLE/RECHARGE MACHINES

Mastercool's enhanced Arctic Commander 2.0 line of R/R/R machines is the culmination of years of expertise in the industry. Our team of engineers have focused on intuitive design, elevated efficiency, and improved performance to set a higher standard. Experience effortless navigation through detailed function screens with the spacious 10" color touchscreen command center. Through the expansion of internal plumbing and reduction of restrictions, we've achieved remarkable improvements in recovery and charge times. These units will recover 98.5% of the refrigerant in a vehicle which exceeds the SAE standards for purity and is the fastest in the industry. Don't take our word for it, the Arctic Commander 2.0 has undergone rigorous ETL testing, affirming its position as one of the most precise machines on the market. Official test results demonstrate an astonishing accuracy level, with desired charge and recovery quantities achieved with an impressive 1 gram deviation. Step into the future of R/R/R machines by bidding farewell to outdated models. Replace your aging equipment with the cutting-edge Arctic Commander 2.0 and experience the next level of performance.



COMMANDER4100	Automatic R1234yf & Hybrid R/R/R Machine
COMMANDER3100	Automatic R134a & Hybrid R/R/R Machine
COMMANDER2100	Fully Automatic R134a R/R/R Machine
COMMANDER1100	Semi-Automatic R134a R/R/R Machine
COMD-RRR-KITA	Combo Kit includes COMMANDER3100 & COMMANDER4100 with (2) free universal dye injectors (53123 & 53123-YF)
COMD-RRR-KIT-2A	Combo Kit includes COMMANDER2100 & COMMANDER4100 with (2) free universal dye injectors (53123-YF)
COMD-RRR-KIT-3A	Combo Kit includes COMMANDER1100 & COMMANDER4100 with (2) free universal dye injectors (53123 & 53123-YF)



R134a **MOBILE MONSTER**

91788 R134a Mobile Monster

- 4-way aluminum manifold (86103)
- Black series electronic charging scale (98210-BL)
- 6 CFM, 2 stage black series vacuum pump (90066-2V-110-BL)
- Twin Turbo refrigerant recovery machine (69350)
- Nylon barrier hoses with standard (1/4" x 1/4") fittings (200" blue and red, 72" & 36" yellow, 36" black) (47961-200, 47963-200, 47722, 47364, 47362)
- High-side manual R134a 1/4" FL-M x 16 mm Coupler (82834-E)
- Low-side manual R134a 1/4" FL-M x 13 mm Coupler (82934-E)
- 1/2 acme-f x 1/4" fl-m R134a adapter (82635)

MANIFOLDS



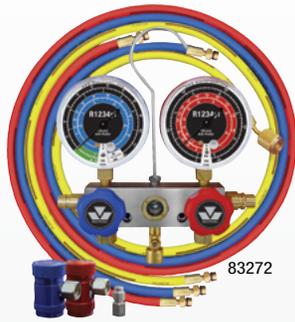
98660-PROM



89661-PRO



89661-AYF



83272



MC-HANGER

R1234yf/R134a MANIFOLDS

- 89661-AYF** R1234yf/R134a Aluminum Manifold Gauge Set: 3-60" R134a standard hoses, R134a manual couplers, R1234yf couplers, 1/2" acme-m x 1/2" acme-f LH thread adapter, (2) 12 mm-m x 14 mm-f R1234yf adapters
- 66661-AYF** R1234yf/R134a Brass Manifold Gauge Set: 3-60" R134a standard hoses, R134a economy couplers, R1234yf quick couplers, 1/2" acme-m x 1/2" acme-f LH thread adapter, (2) 12 mm-m x 14 mm-f R1234yf adapters

R1234yf MANIFOLDS

- 83272** R1234yf Aluminum Manifold: R1234yf couplers with 72" hoses
- 81661** R1234yf Brass Manifold: R1234yf couplers with 60" hoses

R134a BRASS MANIFOLDS

- 66661** R134a Brass Manifold: standard couplers with 3-60" hoses
- 66773** R134a Brass Manifold: standard couplers with 3-72" hoses

DUAL R12, R134a ALUMINUM MANIFOLDS

- 98660-PROM** Dual R12, R134a Aluminum Manifold: standard couplers with 2 sets of 60" hoses in plastic box with free 85530
- 98661-PRO** Dual R12, R134a Aluminum Manifold: manual couplers with 2 sets of 60" hoses in plastic box with free 85530

R134a ALUMINUM MANIFOLD, 3 1/8" GAUGES

- 89172** 2 Way R134a Aluminum Manifold: manual couplers with 72" hoses

R134a ALUMINUM MANIFOLDS, 2 1/2" GAUGES

- 89660-PRO5** R134a Aluminum Manifold: 60" hoses, standard couplers w/ free 85530
- 89661-PRO** R134a Aluminum Manifold: 60" hoses, manual couplers w/ free 85530
- 89661-LV** R134a Aluminum Manifold, 60" hoses, manual couplers and 10 application mini dye injector
- 89660-LV** R134a Aluminum Manifold, 60" hoses, standard couplers and 10 application mini dye injector

MC-HANGER Mastercool Heavy-Duty Magnetic Hanger



Black Series Mini-fold

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

- 84472** R134a Mini-fold Compact 2-Way Manifold with 3-72" hoses and R134a manual couplers (82834, 82934) in a zippered carry case
- 82172** R1234yf Mini-fold Compact 2-Way Manifold with 3-72" hoses and R1234yf manual couplers (83834, 83934) in a zippered carry case

- 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/cm², 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



82172

COUPLERS

- 67434** High Side R1234yf Quick Coupler
- 67534** Low Side R1234yf Quick Coupler
- 82834** High Side R134a Manual Coupler
- 82934** Low Side R134a Manual Coupler
- 83834** High Side R1234yf Coupler
- 83934** Low Side R1234yf Coupler
- 82834-SL** High Side R134a Manual Safety Lock Coupler
- 82934-SL** Low Side R134a Manual Safety Lock Coupler
- 83736-K** Deluxe R134a/R1234yf Conversion Kit
- 84834-C02** High Side R744 Coupler
- 84934-C02** Low Side R744 Coupler



84834-C02

84934-C02

SERVICE TOOLS

- 85510** R134a Piercing Design Can Tap Valve
- 85512** R134a Self-Sealing Can Tap Valve
- 85525** R134a Piercing Design Recharge Kit
- 85535** R134a Self-Sealing Design Recharge Kit
- 85510-YF** R1234yf Piercing Design Can Tap Valve
- 85512-YF** R1234yf Self-Sealing Can Tap Valve
- 85525-YF** R1234yf Piercing Design Recharge Kit
- 85535-YF** R1234yf Self-Sealing Design Recharge Kit



85512-YF

85512

REFRIGERANT RECOVERY

69100	Complete A/C Recovery System
69360-YF	R1234yf Complete Twin Turbo Recovery Machine includes 30 lb DOT tank, sight-glass, R1234yf low side coupler, oil drain bottle & R1234yf blue & yellow hose
69360-22	Twin Turbo Recovery Machine for Refrigeration Trucks
69365	R134a Complete Twin Turbo Recovery Machine with 50 lb DOT Tank for bus and fleet applications
69372	R134a/R1234yf Complete A/C Recovery Set
69400-CON	Refrigerant Recovery Machine for Contaminated R134a and R1234yf



COMPATIBLE WITH COMBUSTIBLE GASES

COMPATIBLE WITH COMBUSTIBLE GASES

VACUUM PUMPS & SCALES



90063-2V-110-BL 90066-2V-110-BL 90068-2V-110-BL

90065	Elite Ball Bearing Vacuum Pump 5 CFM Two Stage
90059-BL	BLACK SERIES 1.8 CFM Vacuum Pump (Single Stage)
90062-BL	BLACK SERIES 3 CFM Vacuum Pump (Single Stage)
90066-BL	BLACK SERIES 6 CFM Vacuum Pump (Single Stage)
90066-BL-SF	BLACK SERIES SPARK FREE 6 CFM Vacuum Pump (Single Stage)
90063-2V-110-BL	BLACK SERIES 3 CFM Vacuum Pump (Two Stage)
90066-2V-110-BL	BLACK SERIES 6 CFM Vacuum Pump (Two Stage)
90068-2V-110-BL	BLACK SERIES 8 CFM Vacuum Pump (Two Stage)
90612-2V-110-BL	BLACK SERIES 12 CFM Vacuum Pump (Two Stage)
90058-A-AUT	18 Volt Cordless, 1.5 CFM, 2 Stage Vacuum Pump
90058-AUT-5A	18 Volt Cordless, 1.5 CFM, 2 Stage Vacuum Pump Kit
98210-BL	BLACK SERIES Electronic Charging Scale with Bluetooth® Wireless Technology

COMBO KITS



55900-COMBOKIT
Electronic Leak Detector Combo Kit
Includes Dual R134a/R1234yf Manifold and Electronic Leak Detector



90066-SF KIT
Dual R134a and R1234yf Evacuation and Charging Combo Kit

REFRIGERANT IDENTIFIERS

69134-A
Refrigerant Identifier for R134a



691234YF-MINI
Mini ID Refrigerant Identifier for R1234yf

- Keeps equipment safe
- Prevents contamination
- Detects air contamination

REFRIGERANT RECOVERY CYLINDERS

- 67010** 30 lb Refrigerant Recovery Cylinder with float switch
- 66011** 50 lb Refrigerant Recovery Cylinder with float switch



VALVE CORE TOOLS



58490-YF

- 58490 Universal R12/R134a Master Kit covers all R12 and R134a system valve cores for Standard, JRA, Eaton and GM large bore

- 58490-YF Universal R1234yf Master Kit

- 81290 R134a Universal Large Bore w/Core Remover

- 81490 R134a Valve Core Remover Installer

- 91290 Universal Valve Core Tool 91290



LEAK DETECTION



56200



- 56100 Raptor Refrigerant Leak Detector
 - 3 levels of sensitivity (5 levels of detection)
- 56200 Raptor Refrigerant Leak Detector with UV Blue Light
 - 6 levels of sensitivity (15 levels of detection)



55900

IntellaSense II REFRIGERANT LEAK DETECTOR

55900

IntellaSense II Refrigerant Leak Detector, 2 "D" Batteries, leak test vial & replacement filters

- Meets and exceeds J2791 & J2913
- Detects all refrigerants
- Sensitivity as low as ≥ 0.50 oz/yr

FLUSH

- 53376 R134a Visual Inspection Sight Glass with R134a Quick Couplers

- 53376-YF R1234yf Visual Inspection Sight Glass with R1234yf Quick Couplers

- 53377 R134a Visual Inspection Sight Glass with R134a Manual Couplers

- 53377-YF R1234yf Visual Inspection Sight Glass with R1234yf Manual Couplers



53376

53376-YF

Black Series

PROVIDING A RELIABLE SOLUTION TO FINDING SENSITIVE LEAKS

- Innovative infrared sensor offers an extended sensor life of 10 years
- Maximum sensitivity up to 0.14 oz/yr
- Designed to meet EN14624, SAE1627, SAE2791 and SAE2913 standards
- Smart sensor technology allows for the selection of popular refrigerants such as R134a, R404a, R407C, R410A and R1234yf with a default setting that detects all HFC's, HCFC's, CFC's, PFC's and HFO's

55600-A Black Series Infrared Refrigerant Leak Detector packaged in a zippered carry case



55600-A

NEW

UV LEAK DETECTION

- 53351 Professional UV Leak Locator Kit
 - Rechargeable UV Flashlight Kit (53518-UV) (110V Charger) includes: rechargeable UV light, batteries, battery holder,

- 53451-110 2 oz concentrated universal A/C fluorescent dye (25 applications) (53625), refillable 2 oz dye injector (53123), 4 oz dye remover (53314), 25 service information labels, UV safety glasses

- 53513-UV Mini UV Flashlight

- 53516 4 Bulb Flex Wand Flashlight

- 53518-UV Rechargeable UV Flashlight

- 53583 Mini UV Flashlight (53513-UV) Kit includes: 1 oz die injector with replaceable 1 oz die cartridge (10 applications), low side hose, R12 adapter, UV safety glasses, service information labels



53516



53513-UV

53583

53451-110

OILS/DYES/INJECTORS

- 82375 R134a Oil Injector

- 53123 UV Dye Injector (Refillable Type)

- 53123-YF Refillable R1234yf Oil/Dye Injector comes complete with a R1234yf coupler

- 53223 UV Dye Injector (Cartridge Type)

- 92707 Hybrid A/C Compressor Oil

- 53615-A Auto A/C Master Leak Shield (1 oz can) (does not contain refrigerant)

- 53909 Mini Auto A/C Master Leak Shield Dye Injector "Cartridge type" 1 oz injector, low side hose and R12 adapter

- 53910 Auto A/C Master Leak Shield 1 oz replacement cartridge

- 53593 Mini UV Flashlight Kit includes: 53513-UV mini UV flashlight, "cartridge type" 1 oz injector with auto A/C master leak shield sealant with dye, low side hose, R12 adapter, UV safety glasses, service information labels



53123

53123-YF

YF COMPATIBLE

53909

YF COMPATIBLE

53615-A

53223

53593

53910

TEMPERATURE MEASUREMENT

- 52220 1" Analog Thermometer 0 to 220°F
- 52223-A 1" Digital Thermometer -58 to 302°F
- 52224-A-SP 12:1 Infrared Thermometer with Circular Laser -58 to 1022°F with free 52220
- 52224-CC 12:1 Infrared Thermometer with Circular Laser -76 to 1400°F
- 52225-MED Multi-Function Medical/Surface Infrared Thermometer
- 52234-BT Digital Thermometer/Hygrometer with Bluetooth® Wireless Technology

THERMAL IMAGING CAMERA

52325
Thermal Imaging Camera with carry case, 8 gb micro SD card, CD, USB cord, batteries and instructions



COOLING SYSTEM TESTING

- 43300 14 Piece Universal Cooling System Pressure Test Kit includes hand pump, thermometer and 12 adapters (No.'s 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13) to fit most popular domestic and import cars and trucks
- 43301-A 27 Piece Master Radiator Pressure Test Kit includes 1 blue radiator cap test connector R123/R125, 1 black radiator cap test connector R123/R124, 1 thermometer, 1 universal radiator cap, 1 vacuum purge and refill tool, coolant hose and additional installation accessories, hand pump and 19 adapters (No.'s 2, 3, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 19, 21, 22 and 23) to fit most popular domestic and import cars and trucks
- 43302 25 Piece Master Cooling System Pressure Test Kit includes blue and black radiator cap test connectors, hand pump, thermometer and 21 adapters (No.'s 2, 3, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23) to fit most popular domestic and import cars and trucks
- 43305 10 Piece Cooling System Pressure Test Adapter Kit (Adapter update kit to be used with 43300) includes blue and black radiator cap test connectors, 8 adapters (No.'s 14, 15, 16, 17, 18, 19, 20, 21) to fit most popular domestic and import cars and trucks
- 43306 Heavy Duty Cooling System Pressure Test & Refill Kit includes heavy duty vehicle adapters, pressure test regulator, vacuum refill attachment with tubing in a plastic case
- 43012 Cooling System Vacuum Purge and Refill Kit includes vacuum gauge, sealing collar, valve, quick coupling, venturi style vacuum, 3 rubber gaskets, coolant hose and drain hose
- 43013 Vacuum Type Cooling System Filler Kit includes vacuum purge and refill tool, coolant hose, 1 universal radiator cap
- 43014 Vacuum Type Cooling System Filler Kit includes vacuum gauge, shop air connector, air valve, venturi style vacuum, conical adapter, coolant hose with connector and coolant valve, drain hose
- 43705 Refractometer includes storage case, fluid dropper and calibration screw driver
- 43301-PTA Universal Cooling System Adapter Kit



BLOWER FANS

- 21200-A 1200 CFM Blower Fan
 - Moves air up to: 1200 CFM
 - 4-position adjustment feet
- 20300-A 300 CFM Blower Fan
 - Moves air up to: 300 CFM
 - 4-position adjustment feet
- 20300-HTR Heater Attachment for 300 CFM Blower Fan



BRAKE TOOLS

- 43050** Air Powered Brake Caliper Wind Back Tool Kit
Pneumatic single piston press shaft operation allows one technician to perform the brake job
- 43051** Air Powered Brake Caliper Wind Back Tool
- 43058** Drum Brake Hold-Down Spring Pliers



A/C HOSE CRIMPERS

- 71500-A** Hydra-Krimp Deluxe A/C Hose Crimper
- 71550** A/C Hose Crimper Kit



NITROGEN PRESSURE REGULATOR

- 53010-AUT** Pressure Testing Regulator Kit
- 53001 nitrogen pressure regulator
 - 38" yellow charging hose
 - Leak testing adapter
 - High side standard R134a 1/4" FL-M x 16mm economy coupler
 - Blow molded case
- 53042-YF** Leak Testing Adapter For R1234yf



TUBE WORKING TOOLS

- 70027** Mini Tube Cutter
- 70030** Ratchet Style Tube Cutter
- 70033** Heavy Duty Tube Cutter (1/8" to 1 1/8")
- 70053** Flaring & Swaging Tool Set
- 70069-A** 4 IN 1 Tube Bender
- 70092** Cutting, Flaring & Double Flaring Tool Set
- 71100** ISO Metric Bubble Flaring Tool Set
- 72300** Push Connect & Double Flaring Tool Set
- 72400** GM Fuel Line Flaring Tool Set
- 72450** Double & Metric Bubble Flaring Tool Set
- 72475** Universal Hydraulic Flaring Tool Set
- 72480** 37" Flaring & Double Flaring Hydraulic Tool Kit
- 72485** Universal Hydraulic Flaring Tool Set with 3/8" and 1/2" GM Transmission Cooling Line Die and Adapter Sets
- 71098** 37" Flaring & Double Flaring Adapter Set
- 71099-TC** 3/8" GM Transmission Cooling Line Die & Adapter Set
- 71099-06** 3/8" GM Transmission Cooling Line Adapter
- 71099-16** 3/8" GM Transmission Cooling Line Die
- 71099-TC8** 1/2" GM Transmission Cooling Line Die & Adapter Set
- 71099-08** 1/2" GM Transmission Cooling Line Adapter
- 71099-18** 1/2" GM Transmission Cooling Line Die



DIAGNOSTIC SMOKE MACHINES

Compact, heavy-duty design for years of reliable service

- 43060-EV** EVAP Diagnostic Smoke Machine (with internal compressor)
- 43060-HD** Heavy Duty Truck Diagnostic Smoke Machine
- 43060-TB** Turbo/Intake Diagnostic Smoke Machine (with internal compressor)
- 43065** Dual Evap/High Pressure Diagnostic Smoke Machine (with internal compressor)
- 43070** Dual Evap/High Pressure Diagnostic Smoke Machine (with internal compressor) With Truck Adapter Accessory Kit



• INCLUDES INTERNAL COMPRESSOR •

• INCLUDES INTERNAL COMPRESSOR •

ADAPTER KITS

- 43060-UHA** Heavy Duty/Truck Smoke Machine Universal Cooling System Adapter Kit
- 43060-UTA** High Pressure/Turbo Smoke Machine Universal Cooling System Adapter Kit

