



VACUUM PUMPS

A2L
COMPATIBLE



90066-2V-220-BL



90066-2V-220SVBL

90063-2V-220-BL

90068-2V-220-BL

90065-220 Elite Ball Bearing Vacuum Pump 119 lit/min (Two Stage)

90067-220 Elite Ball Bearing Vacuum Pump 178 lit/min (Two Stage)

90059-220-BL **BLACK SERIES** 42 lit/min Vacuum Pump (Single Stage)

90066-220-BLSF **BLACK SERIES** SPARK FREE 142 lit/min Vacuum Pump (Two Stage)

90063-2V-220-BL **BLACK SERIES** 70 lit/min Vacuum Pump (Two Stage)

90066-2V-220-BL **BLACK SERIES** 142 lit/min Vacuum Pump (Two Stage)

90068-2V-220-BL **BLACK SERIES** 198 lit/min Vacuum Pump (Two Stage)

90612-2V-220-BL **BLACK SERIES** 283 lit/min Vacuum Pump (Two Stage)

All vacuum pumps are also available with solenoid valve and vacuum gauge

DESIGNED SPECIFICALLY FOR EXPLOSIVE ENVIRONMENTS

<<ATEX CERTIFIED>>

90066-220-BLSF-ATEX Black Series Spark Free 142 lit/min Vacuum Pump (Two Stage) with 440 ml (15 oz) vacuum pump oil



- Approved for all air conditioning refrigerants including A2L and A3 flammable refrigerants
- U.S. designed and tested
- Gas ballast valve helps prevent oil contamination caused by high moisture
- Thermally protected motor with on/off rocker switch
- Manifold valve isolates pump from the system when testing for leaks. Includes 3 inlet ports, 1/4", 3/8" SAE and 1/2" ACME



RECOVERY MACHINES

DESIGNED SPECIFICALLY FOR EXPLOSIVE ENVIRONMENTS

<<ATEX CERTIFIED>>

- Spark free components ensures safe operation when working with flammable refrigerants
- Safety high pressure cut-off switch automatically stops operation if pressure levels exceed safe limits
- Spark free dual-piston oil-less compressor delivers maximum recovery efficiency while reducing size and weight
- High volume cooling fan prevents overheating and ensures a consistent performance
- Largest volume recovery rate in the market
- Works with all refrigerants including CFCs, HCFCs, HFCs and A2L and A3 flammable refrigerants

69395-220-ATEX Automatic ATEX Approved Spark Free Refrigerant Recovery Machine

69395-220-EU-ATEX Manual ATEX Approved Spark Free Refrigerant Recovery Machine

69395-220-ATEX

69395-220-EU-ATEX



TWINTURBO
REFRIGERANT RECOVERY MACHINE

- Revolutionary double piston oil-less compressor
- Largest volume recovery rate in the market
- All refrigerants including R410A



69300-220

69395-220

69400-220 Mini Twin Turbo Refrigerant Recovery Machine (220 V – 50/60 Hz)

- Engineered for all refrigerants including combustible gases
- Spark-free components ensure safe use when recovering combustible gases including A2L and A3 flammable refrigerants (r410a, r1234yf)
- Dual piston 1/2 hp oil-less compressor for reliable recovery performance
- Compact and lightweight design is easy to transport

69300-220
220 V – 50/60 Hz

69395-220 HVAC Spark Free Combustible Gas Recovery Machine 220V – 50/60Hz
• Compatible with all CFC, HCFC and HFC's including A2L and A3 flammable refrigerants





A2L COMPATIBLE

Black Series Mini-fold

COMPACT MANIFOLD WITH PRECISE CALCULATIONS IN THE PALM OF YOUR HAND

- Compact black anodized aluminum block with chrome fittings
- Pressure/Temperature calculations for up to 91 refrigerants including R454b, R32 and R410a refrigerants
- Unit conversion between MPa, kPa, bar, psi, kg/cm², inHg, celcius or fahrenheit designation

94661

Mini-fold Compact 2-Way Manifold with 3-60" high pressure hoses in a zippered carry case

94261-413-E

Mini-fold Compact 2-Way Manifold with 3-150cm high pressure ball valve hoses and 5/16" adapters in a zippered carry case

JOIN THE SPARTAN REVOLUTION

Color touchscreen display, built-in electronic vacuum sensor and data logging

99923-BT-2 2 Way Smart Manifold with Bluetooth® Wireless Technology & (2) Clamps

99926-BT-2 2 Way Smart Manifold with Bluetooth® Wireless Technology, 60" High Pressure Hoses, Standard Fittings and (2) Clamps

99943-BT-2 4 Way Smart Manifold with Bluetooth® Wireless Technology & (2) Clamps

99946-BT-2 4 Way Smart Manifold with Bluetooth® Wireless Technology, 60" High Pressure Hoses, Standard Fittings, Black Vacuum Hose and (2) Clamps

ALUMINUM MANIFOLD, CLASS 1.0 GAUGES

93661-EB1 2-Way Piston Valve Manifold
80 mm Class 1.0 Gauges
R22, R407C, R32, R410A
3-150 cm hoses

ALUMINUM MANIFOLD, ISOBUTANE GAUGES

92661-RB 2-Way Piston Valve Manifold,
80 mm Gauges
R1270, R290, R600a
3-150cm ball valve hoses

ALUMINUM MANIFOLD, 80 MM GAUGES

96261-EBA1-JT-E 4-Way Aluminum Manifold,
80 mm Class 1.0 Gauges
R410A, R32
3-150 cm ball valve hoses

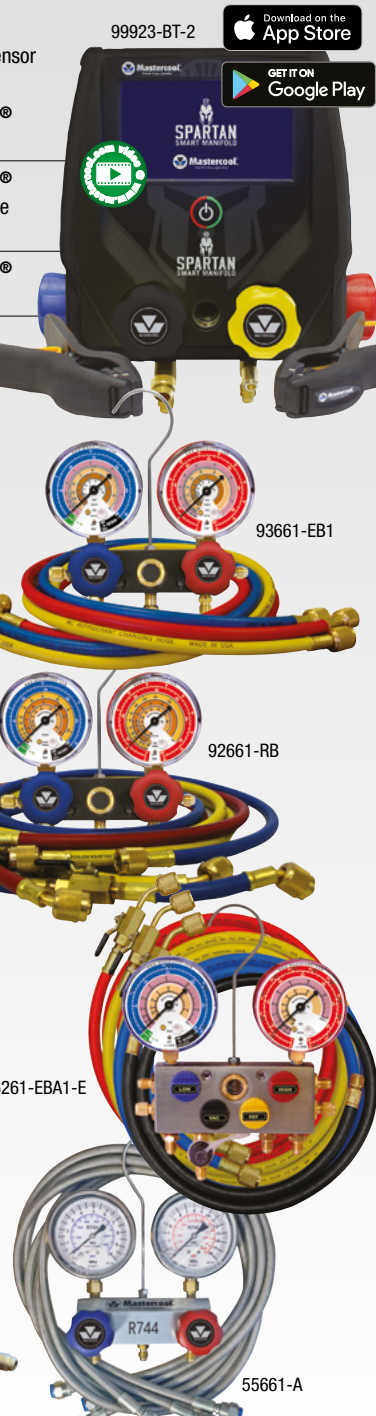
CO2 (R744) MANIFOLD

55661-A 2-Way Piston Valve Manifold,
70 mm class 1.0 oil filled gauges
3 - 150cm steel braided hoses

CO2 (R744) COUPLERS

84834-C02 High side R744 coupler

84934-C02 Low side R744 coupler



HOSES

- Auto shut-off valves automatically retain refrigerant in the service hose when they are removed from the system, meet EPA, SAE, and UL standards for containment of refrigerant.
- Suitable for A1-A2L and A3 refrigerants

46360

Set of 150 cm Nylon Barrier Hoses with Automatic Shut-off Valve Fittings (1/4" SAE)

For the complete line of Mastercool hoses visit www.mastercool.com

SERVICE TOOLS

91498 Universal Valve Core Remover/Installer Kit (for high pressure refrigerants) R410A



91496 Valve Core Remover/Installer with Access Port



81390 Universal O-Ring Pick & Valve Core Remover Installer



STRAIGHT AND 90° QUICK CONNECTORS

9016CE* Straight Coupler (45° Flare) 1/4" Female x 1/4" Male

9017CE* 90° Elbow Coupler (45° Flare) 1/4" Female x 1/4" Male

9026CE* Straight Coupler (45° Flare) 5/16" Female x 5/16" Male

9027CE* 90° Elbow Coupler (45° Flare) 5/16" Female x 5/16" Male



*only available through Mastercool Belgium

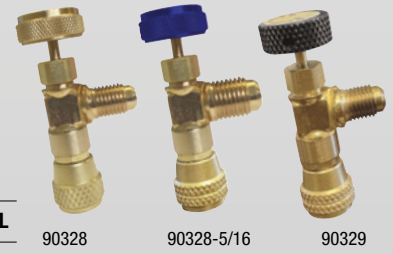
CONTROL VALVES

Mastercool control valves are ideal for use on charged systems. The valves eliminates refrigerant, oil or dye from spraying during connections.

90328 1/4 FFL x 1/4" MFL

90328-5/16 5/16" FFL x 5/16" MFL

90329 5/16" FFL X 1/4" MFL



MC-HANGER

Mastercool Heavy-Duty Magnetic Hanger



DIAGNOSTIC TOOLS

- 52230 Pen Type Hygrometer**
- Temperature Range: -4 to 140°F (-20 to 60°C)
 - Accuracy: ±3% from 10 to 95% RH at 77°F (25°C)



- 52233 Digital Psychrometer**
- Temperature Range: -4 to 122°F (-20 to 50°C)
 - Accuracy: RH% 3% at 77°F (25°C)



- 52236 Airflow+ Psychrometer**
- Temperature: -4 to 140°F (-20 to 60°C) / Accuracy: ±1°F (±0.6°C)
 - Air Velocity: 0.3 to 35 m/s (1 to 114 ft/s)



- 52228 Digital Differential Thermometer**
- Type K Thermocouple Input
 - Temp. Range: -50 to 1999°F (-50 to 1300°C)
 - Resolution: 1°F (1°C)
 - Includes two 3 ft Thermocouple Probes



- 52229 Handheld Waterproof Digital Thermometer**
- Measuring Range -58 to 572°F / -50 to 300°C
 - Maximum / minimum temperature memory
 - Data hold function
 - Stainless steel probe



THERMOMETERS

- 52224-A Infrared Thermometer (12:1)**
- Temperature Range: -58 to 1022°F (-50 to 550°C)
 - Display Illumination: Backlit LCD Color display
 - Target Indicator: Circular Laser



- 52224-CC Infrared Thermometer w/Circular Laser (12:1)**
- Temperature Range: -76 to 1400°F (-60 to 760°C)
 - Display Illumination: Backlit LCD Color display
 - Target Indicator: Circular Laser

- 52224-D Multi-Laser Infrared Thermometer (12:1)**
- Temperature Range: -76 to 1400°F (-60 to 760°C)
 - Display Illumination: Backlit LCD Color display
 - Target Indicator: Eight Laser

- 52234-BT Digital Thermometer/Hygrometer with Bluetooth® Wireless Technology**
- Mastercool Connect app remotely provides:
 - Relative humidity (Tamb=23±5°C): 1~99%, accuracy: ±3% from 20~80%, otherwise ±5%
 - Dry bulb temperature (DBT) : -20 to +65°C
 - Wet bulb temperature (WBT) : -20 to +65°C



A2L COMPATIBLE

55800



ELECTRONIC LEAK DETECTION

IntelliSense REFRIGERANT LEAK DETECTOR

- High Sensitivity, Fast Response
- Meets and Exceeds J2791 and J2913
- Detects: CFC, HCFC, HFC, A2L, A3 refrigerants

- 55800 IntelliSense Refrigerant Leak Detector** with 2 "D" batteries, leak test vial and replacement filters in blow molded box

IntelliSense III COMBUSTIBLE GAS LEAK DETECTOR

- Detects Combustible Gases
- Ultimate Sensitivity: 50 – 1000 ppm

- 55975 IntelliSense III Combustible Gas Leak Detector** in blow molded case with 2 "C" batteries, leak test vial and replacement filters



55975

COMPATIBLE WITH COMBUSTIBLE GASES

- 56100 Raptor Refrigerant Leak Detector**



56100

56200

- 56200 Raptor Refrigerant Leak Detector with UV Blue Light**

Black Series

PROVIDING A RELIABLE SOLUTION TO FINDING SENSITIVE LEAKS

- Infrared sensor with extended sensor life of 10 years
- Maximum sensitivity up to 0.14 oz/yr
- Designed to meet EN14624, SAE1627, SAE2791 and SAE2913 standards
- Select popular refrigerants such as R134a, R404a, R407C, R410A and R1234yf with a default setting detecting all HFC's, HCFC's, CFC's, PFC's and HFO's

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



55600-A

EXTREMELY EFFECTIVE AT LOCATING CO₂ LEAKS

- Infrared sensor with sensor life of 40,000 hours
- Easily select high, medium and low sensitivity levels
- Compliant to RoHS, SAE-J1627 and EN14624

- 55745 Infrared Refrigerant CO₂ Leak Detector** packaged in a zippered carry case

55745

RECOVERY TANKS

* more tank options available, visit www.mastercool.com



- Y-valve for liquid/vapor
- Storage & transport of recovered refrigerant gases
- Raised collar for ease of handling and protection
- Tanks Conform to PED and ADR regulations
- CE and TÜV approved

62010-EUGRN

62010-EUGRN

12.5 Liter Recovery Tank

- Connection: 1/4" FL-M (7/16-20)
- Size (w x h): 228 mm x 516 mm
- Tare Weight: 8 kg

63010-EUGRY

27.2 Liter Recovery Tank

- Connection: 1/4" FL-M (7/16-20)
- Size (w x h): 298 mm x 613 mm
- Tare Weight: 15.7 kg

62010-EURED*

12.5 Liter Recovery Tank

- Connection: 1/4" FL-M (7/16-20)
- Size (w x h): 228 mm x 516 mm
- Tare Weight: 8 kg

*only available through Mastercool Belgium



NEW

63010-EUGRY

62010-EURED

PRESSURE GAUGES

DG-90328

Digital pressure gauge with 1/4" schrader opener includes adapter and carrying bag



CHARGING SCALES

- 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

98310 Wireless Refrigerant Scale without solenoid

98315 Wireless Refrigerant Scale with solenoid



98310

HIGH PRECISION CHARGING SCALE

- Specially designed for R600a and R290
- 7/16"-28 hex cylinder adapter included
- 36" thermoplastic capillary hose with 1/4" swivel female fittings
- Built-in check valve will hold any remaining refrigerant within capillary hose

98201-A

High Precision Charging Scale (only)

98202-A

High Precision Charging Scale with storage for a 14 oz. refrigerant cylinder (sold separately)

98202-A-COMP

High precision Charging Scale with storage for cylinder and EU adapters

98202-A-600

High Precision Charging Scale with a can of R600a refrigerant

98202-A-290

High Precision Charging Scale with a can of R290 refrigerant



98201-A

91050-600-12

R600a Refrigerant Grade Isobutane C4H10 (14.8 oz (420 g) cylinder) packaged 12 per box

91050-290-12

R290 Refrigerant Grade Propane C3H8 (13 oz (370g) cylinder) packaged 12 per box



91050-600-12



VACUUM GAUGES

93105 Deep Vacuum Isolation Valve Assembly Kit

- 3-way ball valve with independent valves to isolate two of the ports
 - 1/4" flare male and female ports on each end
 - 1/4" flare male side port
- Working pressure up to 600 PSI
- Adapters included: 90° elbow (1/4 flare male to 1/4 flare female) 90° elbow (1/4 flare male to 5/16 flare female), straight adapter (3/8 flare male to 1/4 flare female)



98063-BT

Digital Vacuum Gauge with Bluetooth® Wireless Technology

Mastercool's compact hand-held digital vacuum gauge with Bluetooth® wireless technology utilizes new sensor technology with state of the art glass beaded thermistor and temperature compensation. Communication to hand-held smart devices through the Mastercool Connect app. Range: 20.000 to 1 micron



98210-BL

The Ultimate Device for Charging and Recovering of Refrigerant

- Accepts all US & EU standard cylinders
- Capacity: 243 lbs (110 kg)
- Accuracy: $\pm 0.05\%$ of reading
- Resolution: 0.05 lb / 0.5 oz / 0.01 kg

Black Series

98210-BL

Electronic Charging Scale with Bluetooth® Wireless Technology



NITROGEN PRESSURE REGULATOR

All The Tools Necessary For Testing A System

This single stage nitrogen regulator is used to test systems for leaks when they do not contain refrigerant.

- 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)
- Low pressure gauge 1000 psig (70 bar)



53020 Pressure Testing Regulator Kit (Central Europe including Spain and Portugal)

53030 Pressure Testing Regulator Kit (UK)

53050 Pressure Testing Regulator Kit (Italy)

53060 Pressure Testing Regulator Kit (LH Threads)

NITROGEN REGULATOR TO TEST CO2 SYSTEMS

53002-200-DIN* (Germany)

53002-200-NF* (France)

53003-200* (England)

53005-200* (Italy)



CO2 PRESSURE REGULATOR

53007-100-CO2*

*only available through Mastercool Belgium

SUPER PRO KIT

90936 HVAC Super Pro Kit

Lifetime Solderless Bonding For Copper, Brass & Aluminum

- Makes Hundreds of Bonds

- Makes the same number of bonds as 1 1/2 lbs of braze at approximately 25% of the cost of 15% silver braze
- Use with standard copper or brass fittings
- Single Part Formula – Easy to Use and No Mixing Required
- Uses Standard ASE Fittings – No Expensive Tools or Special Fittings Required
- For all repairs and new installations



OXYTURBO SET 90*

Useful, lightweight and practical oxypropane welding kit

Equipped with:

- MAXY GAS cartridge
- L 110 bar OXYGEN cylinder
- Mignon oxygen reducer
- 2 m hoses with connections
- 80 L lance and tip
- Igniter
- 4-tip single block star
- Protective goggles
- Multi-purpose wrench
- Filler metal with de-oxidant
- Handle with adjusting taps and no-return integrated oxygen and gas valves



MAXYGAS & OXYGEN cylinders available separately

*only available through Mastercool Belgium



FLUSH



91051

91050

- Specific fluid for the inner flushing of air conditioning and refrigeration systems
- O-Ring safe
- Non-Flammable
- Non-Corrosive

91051 Total A/C Quick Flush Kit

91050 17.6 oz. Total A/C Quick Flush Can

69900-220

"Mastercleanse" Flush Machine

Commonly used for removal of all solids and residues caused by breakage of compressor or filters.

- 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



REFRIGERANT IDENTIFIER



69LEGEND-HFC

Legend Series™ HFC Refrigerant Analyzer

- 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
- 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

SWAGING AND FLARING TOOLS



EASILY MAKE OEM FLARES WITH A PUMP OF THE HANDLE...

71680

Hydraulic Flaring Accessory

Add the 71680 to your existing Mastercool hydraulic expanding kit to allow for the ability to make OEM flares

71675

Complete Hydraulic Flaring & 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, adapter, inner-outer reamer and hydraulic flaring accessory 71680 in blow molded case

71676

Complete Hydraulic Flaring & Expanding Kit (10 Head Kit)

Same as 71675 plus 1 3/8", 1 5/8", 2 1/8" expander heads



71710

Hydraulic Flaring & Swaging Tool

- Secure the die and adapter, pump the handle a few times, and the job is complete
- Hydraulic power makes flaring and swaging a breeze
- Includes dies and adapters for copper tubing sizes: 1/4", 5/16", 3/8", 1/2", 5/8", 3/4" and 7/8" inch
- Comes with a custom molded carrying case

71600-A

Hydra-Swage Tube Expanding Tool Kit to 1 1/8"

Consists of: expander heads 3/8", 1/2", 5/8", 3/4", 7/8", 1", and 1 1/8", hydra-swage 71601, small adapter and inner-outer reamer.

71650-A

Hydra-Swage Tube Expanding Tool Kit to 2 1/8"

TUBING TOOLS

TUBE WORKING ACCESSORIES

70078 Torque Wrench

70079 Adjustable Torque Wrench



FLARING TOOLS

70057-A Eccentric Flaring Tool
1/4, 5/16, 3/8, 1/2, 5/8, 3/4"

70058-A Eccentric Flaring Tool Kit
Includes 70057-A, 71685 & 70033

70059 Eccentric Flaring Tool -
Flares 6 sizes 1/4, 3/8, 1/2, 5/8, 3/4, 7/8"
"Only Tool On the Market to Cover up to 7/8"

70060 Eccentric Flaring Tool Kit
Includes 70059, 71685 & 70033

70053 Flaring and Swaging Adapter Tool Kit
Durable forged steel slip-on yoke. Bars are chrome plated, hardened steel. Swages in close quarters where punch style cannot be used.

70094 Wide Range 45° Flaring and Cutting Tool

TUBE CUTTERS & KITS

70025 Capillary Tube Cutter

70027 Tube Cutter for 1/8 to 5/8" O.D. Tubing

70031 Ratchet Style Tube Cutter for 5/16 to 1 1/8" O.D. Tubing

70033 Heavy Duty Tube Cutter for 1/8 to 1 1/8" O.D. Tubing

70090-A 4 Piece Tube Cutter Kit (70027, 70029, 70033 & 70037)

72029 "Reduced Friction" Tube Cutter for 1/8 to 1 1/8"

72035 "Reduced Friction" Tube Cutter for 1/4 to 1 1/2"



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TUBE BENDERS & ACCESSORIES

70069-A 4-in-1 Bender
3/16", 1/4", 5/16" & 3/8" O.D. tubing

70070 "Ratchet Style" Tube Bender Kit
• Bends: 3/8, 1/2, 5/8, 3/4 and 7/8" O.D. soft tubing
• Includes heavy duty tube cutter for (1/8 – 1 1/8" O.D. tubing)
• Includes inner-outer reamer for (3/16 – 1 1/2" O.D. tubing)

70070-RD Reverse Direction Bending Adapter