

INTUITIVE DESIGN, ELEVATED EFFICIENCY, IMPROVED PERFORMANCE



Introducing Mastercool's enhanced Arctic Commander 2.0 line of R/R/R machines, 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Step into the future of R/R/R machines by bidding farewell to outdated models.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.

Fully responsive 10" touch screen command center...



Home Screen

allows for quick touch selection of options



Status Screen

for quick reference of resources



Tank Fill Screen

allows for visual, real time progress of tank filling process



Settings Screen

allows the user to select a default language, units, temperature, volume and weight measurement



Vacuum/Leak Test Screen

fully customizable options allows the user to personalize the times of vacuum and leak testing

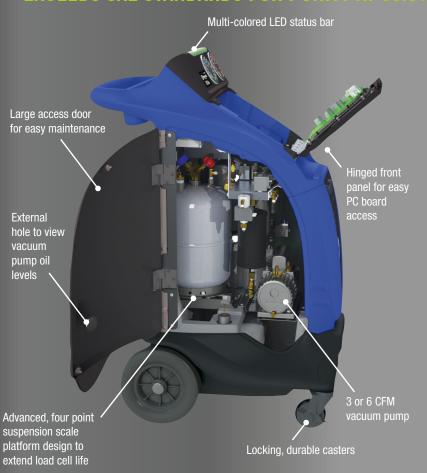


Maintenance Screen

offered only to authorized service technicians allowing for quick and easy diagnosis

Take a look under our hood...

EXCEEDS SAE STANDARDS FOR PURITY AT 98.5%





ALARMS

AUTO FILTER ALARM
Warns that a filter change is required

FULL TANK ALARM Notifies when tank is full

LOW REFRIGERANT ALARM Notifies when refrigerant is low



AUTOMATIC OIL DISCHARGE

Oil is automatically discharged during the recovery process. If oil is present, it will drain into a graduated container clearly displaying the amount of oil that was removed



AUTOMATIC VACUUM LEAK TEST

Checks for leaks during the vacuum phase. The operation will be interrupted and a warning will appear if leaks are found



WI-FI

Wi-Fi capability allows for real time, interactive communication and troubleshooting



ON-BOARD UNITS CONVERSION CALCULATOR

Easily convert between different units of measure



SELF-DIAGNOSTIC CHECK

Upon start-up, unit checks all of the integral functions of the machine



COMPACT DESIGN

The machine's compact design makes it easy to maneuver and requires minimal shop space



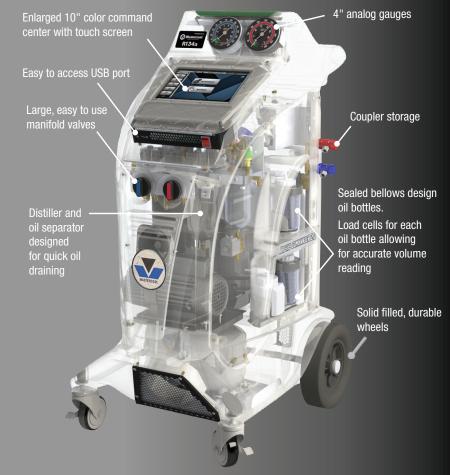
TANK HEATER

Provides quick charging at high or low temperatures



COOLING FAN

Dedicated PC board cooling fan keeps the PC board consistently cool



www.mastercool.com

R1234yf & HYBRID

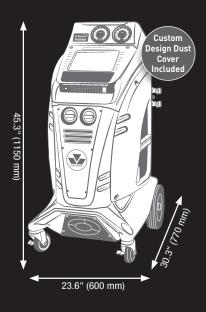
- **COMMANDER4100** (110V)
- > COMMANDER4100-E (220V)
- **COMMANDER4100-E-X** (220V)

without a refrigerant identifier

>> DESIGN CERTIFIED FOR COMPLIANCE WITH SAE J2843 <<

SPECIFICATIONS:

- Type of Refrigerant: R1234yf
- Service Procedure: Fully automatic or manual
- Voltage: 110 V / 60 Hz or 220 V / 50/60 Hz
- Scale Resolution: 0.02 lb (10 g)
- Oil Scale Resolution: 0.01 lb (5 g)
- Working Temperature Range: 50/120°F (10/49°C)
- Filter System: 1 filter for cleaning and water removal
- Vacuum Pump: 6 CFM (142 liter/min)
- Compressor: Hermetically sealed, 12cc, high pressure
- Recovery: 98.5% at 70 to 75°F (21 to 24°C) <30 minutes
- Recovery Cylinder: 30 lb (12.5 liters), refillable
- Charge Accuracy: ±0.5 oz. at 70 to 75°F (±15 g at 21 to 24°C)
- Hoses: 96" (250 cm)
- Couplers: R1234yf Manual
- Pressure Gauges: Class 1.0
- Cylinder Temperature Sensor: Integrated
- Cylinder Heater: Standard Equipment
- Shipping Dimensions (mm): 1346 (h) x 813 (w) x 965 (d)



FEATURES:

10" Color Command Center with Touch Screen		
Automatic and Manual Procedures		
Vehicle Refrigerant Database		
Automatic Vacuum Leak Test: Programmable		
Auto Oil Discharge		
Auto and Manual Air Purge		
Auto Filter and Full Tank Alarm		
Low Refrigerant Alarm		
Auto Oil Injection (220V models only)		
E-Printing Capability		
Hose Flushing		
Vehicle A/C System Flushing		
Cylinder Heater		

6 CFM Vacuum Pump
Refrigerant Identifier
Wi-Fi Capable
Multiple Languages
On-Board Unit Conversion Calculator
Cabinet Designed for Increased Air Flow
Large Analog Gauges
Hard Wired Power Cord
Hose Coupler Storage
Solid Durable Wheels with Locking Casters
Multi-Colored LED Status Bar
Automatic Self-Diagnostic Check
Made in USA



REFRIGERANT IDENTIFIER

Integrated state-of-the-art refrigerant identifier.



HOSE FLUSHING

Eliminates the chance of excess (non-insulating) oils being injected into the A/C system.

Utilized for service of hybrid vehicles



E-PRINTING CAPABILITY

For a comprehensive emailed report.



ONE BOTTLE*



STATUS LIGHT

Multi-colored LED status bar offers visual confirmation of machine progress.



REFRIGERANT DATABASE

Refrigerant capacities for US, European, Japanese and Korean makes and models

COMMANDER4100 Automatic R1234yf & Hybrid R/R/R Machine



^{* 220} V models will include 3 bottles. Two sealed bellows design bottles for selection of oils or dyes and one used oil bottle.

R134a & HYBRID

COMMANDER3100 (110V) < **COMMANDER3100-E** (220V) <

>> DESIGN CERTIFIED FOR **COMPLIANCE WITH SAE J2788 «**

SPECIFICATIONS:

- Type of Refrigerant: R134a
- Service Procedure: Fully automatic or manual
- Voltage: 110 V / 60 Hz or 220 V / 50/60 Hz
- Scale Resolution: 0.02 lb (10 g)
- Oil Scale Resolution: 0.01 lb (5 g)
- Working Temperature Range: 50/120°F (10/49°C)
- Filter System: 2 filters for cleaning and water removal
- Vacuum Pump: 6 CFM (142 liter/min)
- Compressor: Hermetically sealed, 12cc, high pressure
- Recovery: 98.5% at 70 to 75°F (21 to 24°C) <30 minutes
- Recovery Cylinder: 30 lb (12.5 liters), refillable
- Charge Accuracy: ±0.5 oz. at 70 to 75°F (±15 g at 21 to 24°C)
- Hoses: 96" (250 cm)
- Couplers: R134a Manual
- Pressure Gauges: Class 1.0
- Cylinder Temperature Sensor: Integrated
- Cylinder Heater: Standard Equipment
- Shipping Dimensions (mm): 1346 (h) x 813 (w) x 965 (d)



COMMANDER3100 Automatic R134a & Hybrid R/R/R Machine



HOSE FLUSHING

Utilized for service of



E-PRINTING CAPABILITY



ONE BOTTLE*



STATUS LIGHT



REFRIGERANT DATABASE

for US, European



FEATURES:
10" Color Command Center with Touch Screen
Automatic and Manual Procedures
Refrigerant Database
Automatic Vacuum Leak Test: Programmable
Auto Oil Discharge
Auto and Manual Air Purge
Auto Filter and Full Tank Alarm
Low Refrigerant Alarm
Auto Oil Injection (220V models only)
E-Printing Capability
Hose Flushing
Vehicle A/C System Flushing
Cylinder Heater

6 CFM Vacuum Pump Multiple Languages On-Board Unit Conversion Calculator Cabinet Designed for Increased Air Flow Large Analog Gauges Hard Wired Power Cord Hose Coupler Storage Solid Durable Wheels with Locking Casters Multi-Colored LED Status Bar Automatic Self-Diagnostic Check Made in USA

* 220 V models will include 3 bottles. Two sealed bellows design bottles for selection of oils or dyes and one used oil bottle.

R134a Fully Automatic

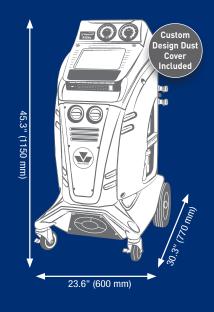
- > **COMMANDER2100** (110V)
- → **COMMANDER2100-E** (220V)
- >> DESIGN CERTIFIED FOR COMPLIANCE WITH SAE J2788 <<

SPECIFICATIONS:

- Type of Refrigerant: R134a
- Service Procedure: Fully automatic or manual
- Voltage: 110 V / 60 Hz or 220 V / 50/60 Hz
- Scale Resolution: 0.02 lb (10 g)
- Oil Scale Resolution: 0.01 lb (5 g)
- Working Temperature Range: 50/120°F (10/49°C)
- Filter System: 2 filters for cleaning and water removal
- Vacuum Pump: 6 CFM (142 liter/min)
- Compressor: Hermetically sealed, 12cc, high pressure
- 12cc, high pressureRecovery: 98.5% at 70 to 75°F

(21 to 24°C) <30 minutes

- Recovery Cylinder: 30 lb (12.5 liters), refillable
- Charge Accuracy: ±0.5 oz. at 70 to 75°F (±15 q at 21 to 24°C)
- Hoses: 96" (250 cm)
- Couplers: R134a Manual
- Pressure Gauges: Class 1.0
- Cylinder Temperature Sensor: Integrated
- Cylinder Heater: Standard Equipment
- Shipping Dimensions (mm): 1346 (h) x 813 (w) x 965 (d)



FEATURES:

10" Color Command Center with Touch Screen		
Automatic and Manual Procedures		
Refrigerant Database		
Automatic Vacuum Leak Test: Programmable		
Auto Oil Discharge		
Auto and Manual Air Purge		
Auto Filter and Full Tank Alarm		
Low Refrigerant Alarm		
Auto Oil Injection		
Cylinder Heater		
6 CFM Vacuum Pump		

Wi-Fi Capable	
Multiple Languages	
On-Board Unit Conversion Calculator	
Cabinet Designed for Increased Air Flow	
Large Analog Gauges	
Hard Wired Power Cord	
Hose Coupler Storage	
Solid Durable Wheels with Locking Casters	
Multi-Colored LED Status Bar	
Automatic Self-Diagnostic Check	
Made in USA	

THREE BOTTLES

Two sealed bellows design bottles for selection of oils or dyes.

One used oil bottle.

STATUS LIGHT

Multi-colored LED status bar offers visual confirmation of machine progress.



REFRIGERANT DATABASE

Refrigerant capacities for US, European, Japanese and Korean makes and models.

OPTIONAL UPGRADES:



E-PRINTING CAPABILITY

For a comprehensive emailed report.

E-Printer Factory Upgrade: COMMANDER2100-P (110V) COMMANDER2100-EP (220V) E-Printer Field Upgrade:

COMMANDER-EPRINTER

COMMANDER2100Fully Automatic R134a R/R/R Machine



R134a Semi-Automatic

COMMANDER1100 (110V) < **COMMANDER1100-E** (220V) <

>> DESIGN CERTIFIED FOR **COMPLIANCE WITH SAE J2788 «**

COMMANDER 1100

Semi-Automatic R134a R/R/R Machine



ONE BOTTLE



OPTIONAL UPGRADES:

E-PRINTING CAPABILITY



REFRIGERANT DATABASE

for US, European



E-Printer Factory Upgrade: **COMMANDER1100-P** (110V) **COMMANDER1100-EP** (220V)

> E-Printer Field Upgrade: **COMMANDER-EPRINTER**

Refrigerant Database Factory Upgrade:

COMMANDER1100-D (110V) **COMMANDER1100-ED** (220V)

Refrigerant Database Field Upgrade:

E-Printer and Refrigerant Database Factory Upgrade: **COMMANDER1100-PD** (110V) **COMMANDER1100-EPD** (220V)

SPECIFICATIONS:

- Type of Refrigerant: R134a
- · Service Procedure: Manual
- Voltage: 110 V / 60 Hz or 220 V / 50/60 Hz
- Scale Resolution: 0.02 lb (10 g)
- Working Temperature Range: 50/120°F (10/49°C)
- Filter System: 2 filters for cleaning and water removal
- Vacuum Pump: 3 CFM (70 liter/min)
- · Compressor: Hermetically sealed, 12cc, high pressure
- Recovery: 98.5% at 70 to 75°F (21 to 24°C) <30 minutes
- Recovery Cylinder: 30 lb (12.5 liters), refillable
- Charge Accuracy: ±0.5 oz. at 70 to 75°F $(\pm 15 \text{ g at } 21 \text{ to } 24^{\circ}\text{C})$
- Hoses: 96" (250 cm)
- Couplers: R134a Manual
- Pressure Gauges: Class 1.0
- Cylinder Temperature Sensor: Integrated
- Cylinder Heater: Standard Equipment
- Shipping Dimensions (mm): 1346 (h) x 813 (w) x 965 (d)



FEATURES:

0" Color Command Center with Touch Screen	Multiple Languages
Manual Procedures	On-Board Unit Conversion Calculator
automatic Vacuum Leak Test: Programmable	Cabinet Designed for Increased Air Flow
uto Oil Discharge	Large Analog Gauges
auto and Manual Air Purge	Hard Wired Power Cord
uto Filter and Full Tank Alarm	Hose Coupler Storage
ow Refrigerant Alarm	Solid Durable Wheels with Locking Casters
Cylinder Heater	Automatic Self-Diagnostic Check
CFM Vacuum Pump	Wi-Fi Capable

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