

ARCTIC COMMANDER

RECOVERY / RECYCLE / RECHARGE MACHINES



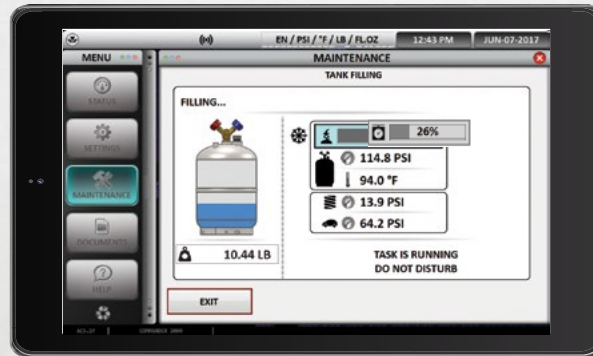
Mastercool® Inc.
"World Class Quality"

Mastercool introduces its new ARCTIC COMMANDER line of RRR machines. Equipped with the latest technology, all models come standard with an 8" command center. The graphic user interface (GUI) will enable navigation through all functions and features with the greatest of ease. There is no longer a need to read any external instructions or paper manuals, simply sit back, watch and learn how to use your machines. All machines are also equipped with Wi-Fi capabilities; allowing for real time, interactive communication and troubleshooting. **It's about time somebody introduced RRR machines for the 21st century!**

Fully responsive "touch screen" command center...



Home Screen
allows for quick touch selection of options



Tank Fill Screen
allows for visual, real time progress of tank filling process



Vacuum/Leak Test Screen
fully customizable options allows the user to personalize the times of vacuum and leak testing



Status Screen
for quick reference of resources



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



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



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



ON-BOARD INSTRUCTION MANUAL

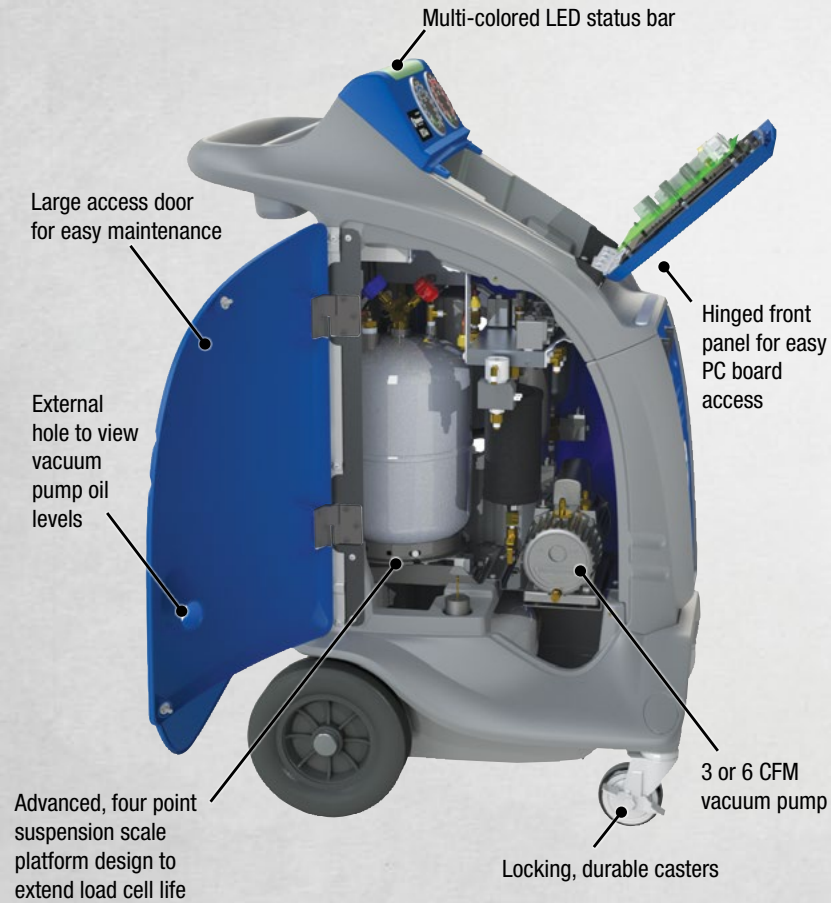
Watch and learn how to use the machine



SELF-DIAGNOSTIC CHECK

With a touch of a button, check all of the integral functions of the machine

Take a look under our hood...



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



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 an alarm will sound if leaks are found

R1234yf & HYBRID

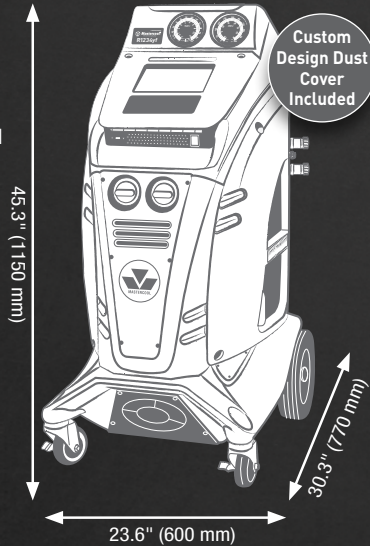
- › **COMMANDER4000** (110V) › **COMMANDER4000-X** (110V) without a refrigerant identifier
- › **COMMANDER4000-E** (220V) › **COMMANDER4000-E-X** (220V) without a refrigerant identifier

›› **DESIGN CERTIFIED FOR COMPLIANCE WITH SAE J2843** ‹‹

Per SAE J2843, the COMMANDER4000-X will work only in conjunction with an external refrigerant identifier

SPECIFICATIONS:

- Type of Refrigerant: R1234yf
- Service Procedure: Fully automatic or manual
- Voltage: 110 V / 60 Hz or 220 V / 50/60 Hz
- Scale Resolution: .02 lb (10 g)
- Oil Scale Resolution: .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 Speed: 95% 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
- Thermal Printer: Standard Equipment
- Pressure Gauges: Class 1
- Cylinder Temperature Sensor: Integrated
- Cylinder Heater: Standard Equipment
- Shipping Dimensions (mm): 1346 (h) x 813 (w) x 965 (d)



FEATURES:

8" Color Command Center with Touch Screen	6 CFM Vacuum Pump
Automatic and Manual Procedures	Refrigerant Identifier
Refrigerant Database	On-board Instruction Manual
Automatic Vacuum Leak Test: Programmable	Multiple Languages
Auto Oil Discharge	On-board Unit Conversion Calculator
Auto and Manual Air Purge	New Cabinet Design for Increased Air Flow
Auto Filter and Full Tank Alarm	Large Analog Gauges
Low Refrigerant Alarm	Hard Wired Power Cord
Auto Oil Injection (220V models only)	Hose Coupler Storage
Thermal Printer	Solid Durable Wheels with Locking Casters
Hose Flushing	Multi-colored LED Status Bar
Vehicle A/C System Flushing	Self-Diagnostic Check
Cylinder Heater	Wi-Fi Capable



REFRIGERANT IDENTIFIER

Integrated state-of-the-art Neutronics refrigerant identifier. (COMMANDER4000, COMMANDER4000-E)



HOSE FLUSHING

Eliminates the chance of excess (non-insulating) oils being injected into the A/C system. Utilized for service of hybrid vehicles.



THERMAL PRINTER

For a comprehensive, printed report.



ONE BOTTLE*

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.

COMMANDER4000 Series Automatic R1234yf & Hybrid RRR Machine



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

COMMANDER3000 Series Automatic R134a & Hybrid RRR Machine



HOSE FLUSHING

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

Utilized for service of hybrid vehicles.



THERMAL PRINTER

For a comprehensive, printed report.



ONE BOTTLE*

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.



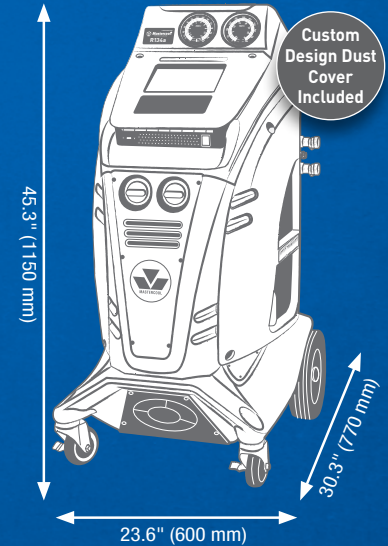
R134a & HYBRID

COMMANDER3000 (110V) ◀
COMMANDER3000-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: .02 lb (10 g)
- Oil Scale Resolution: .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 Speed: 95% 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
- Thermal Printer: Standard Equipment
- Pressure Gauges: Class 1
- Cylinder Temperature Sensor: Integrated
- Cylinder Heater: Standard Equipment
- Shipping Dimensions (mm): 1346 (h) x 813 (w) x 965 (d)



FEATURES:

8" Color Command Center with Touch Screen	6 CFM Vacuum Pump
Automatic and Manual Procedures	On-board Instruction Manual
Refrigerant Database	Multiple Languages
Automatic Vacuum Leak Test: Programmable	On-board Unit Conversion Calculator
Auto Oil Discharge	New Cabinet Design for Increased Air Flow
Auto and Manual Air Purge	Large Analog Gauges
Auto Filter and Full Tank Alarm	Hard Wired Power Cord
Low Refrigerant Alarm	Hose Coupler Storage
Auto Oil Injection (220V models only)	Solid Durable Wheels with Locking Casters
Thermal Printer	Multi-colored LED Status Bar
Hose Flushing	Self-Diagnostic Check
Vehicle A/C System Flushing	Wi-Fi Capable
Cylinder Heater	

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

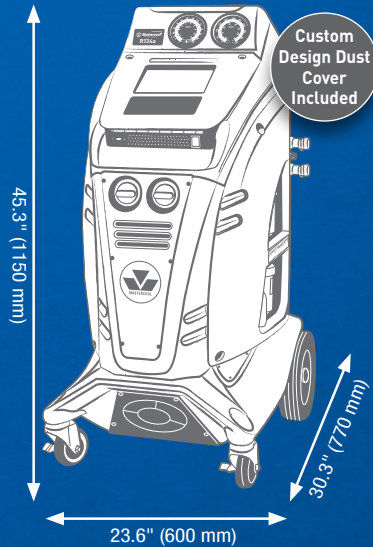
R134a FULLY AUTOMATIC

- › COMMANDER2000 (110V)
- › COMMANDER2000-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: .02 lb (10 g)
- Oil Scale Resolution: .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 Speed: 95% 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
- Cylinder Temperature Sensor: Integrated
- Cylinder Heater: Standard Equipment
- Shipping Dimensions (mm): 1346 (h) x 813 (w) x 965 (d)



FEATURES:

8" Color Command Center with Touch Screen	On-board Instruction Manual
Automatic and Manual Procedures	Multiple Languages
Refrigerant Database	On-board Unit Conversion Calculator
Automatic Vacuum Leak Test: Programmable	New Cabinet Design for Increased Air Flow
Auto Oil Discharge	Large Analog Gauges
Auto and Manual Air Purge	Hard Wired Power Cord
Auto Filter and Full Tank Alarm	Hose Coupler Storage
Low Refrigerant Alarm	Solid Durable Wheels with Locking Casters
Auto Oil Injection	Multi-colored LED Status Bar
Cylinder Heater	Self-Diagnostic Check
6 CFM Vacuum Pump	Wi-Fi Capable



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:



THERMAL PRINTER

For a comprehensive, printed report.

COMMANDER2000 Series Fully Automatic R134a RRR Machine



Thermal Printer Factory Upgrade:
COMMANDER2000-P (110V)
COMMANDER2000-EP (220V)
Thermal Printer Field Upgrade:
COMMANDER-PRINTER

R134a SEMI-AUTOMATIC

COMMANDER1000 (110V) ◀
COMMANDER1000-E (220V) ◀

COMMANDER1000 Series Semi-Automatic R134a RRR Machine

ONE BOTTLE
One used oil bottle.



OPTIONAL UPGRADES:

THERMAL PRINTER

For a
comprehensive,
printed report.



REFRIGERANT DATABASE

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



Thermal Printer Factory Upgrade:
COMMANDER1000-P (110V)
COMMANDER1000-EP (220V)

Thermal Printer Field Upgrade:
COMMANDER-PRINTER

Refrigerant Database Factory Upgrade:
COMMANDER1000-D (110V)
COMMANDER1000-ED (220V)

Refrigerant Database Field Upgrade:
COMMANDER-DB

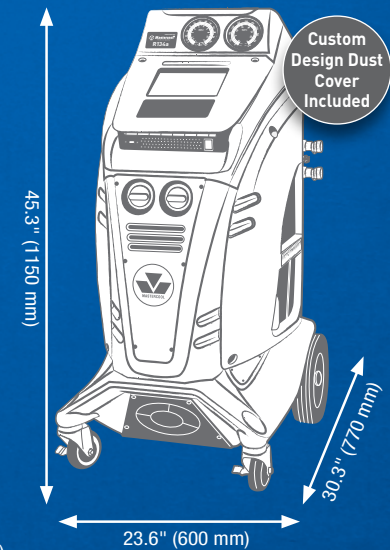
*Thermal Printer and Refrigerant Database
Factory Upgrade:*
COMMANDER1000-PD (110V)
COMMANDER1000-EPD (220V)



» DESIGN CERTIFIED FOR
COMPLIANCE WITH SAE J2788 ◀◀

SPECIFICATIONS:

- Type of Refrigerant: R134a
- Service Procedure: manual
- Voltage: 110 V / 60 Hz or 220 V / 50/60 Hz
- Scale Resolution: .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 Speed: 95% 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
- Cylinder Temperature Sensor: Integrated
- Cylinder Heater: Standard Equipment
- Shipping Dimensions (mm): 1346 (h) x 813 (w) x 965 (d)



FEATURES:

8" Color Command Center with Touch Screen
Manual Procedures
Automatic Vacuum Leak Test: Programmable
Auto Oil Discharge
Auto and Manual Air Purge
Auto Filter and Full Tank Alarm
Low Refrigerant Alarm
Cylinder Heater
3 CFM Vacuum Pump
On-board Instruction Manual

Multiple Languages
On-board Unit Conversion Calculator
New Cabinet Design for Increased Air Flow
Large Analog Gauges
Hard Wired Power Cord
Hose Coupler Storage
Solid Durable Wheels with Locking Casters
Self-Diagnostic Check
Wi-Fi Capable

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