

MAHLE

ARCTICPRO® ACX LINE

Powerful models for your A/C service



WWW.MAHLE-AFTERMARKET.COM

ArcticPRO® ACX NEW GENERATION OF SERVICE UNITS

These units are cutting edge when it comes to connectivity and ease of maintenance—with Bluetooth and Wi-Fi, a large touch screen, a status monitoring app, and remote service.



E³ technology from MAHLE ensures A/C services are ecological, economical, and efficient. Workshops that choose A/C service units from MAHLE also benefit from our Europe-wide service network, technical support, thorough instruction, and comprehensive training.



The EGEA label stands for the quality and functionality of professional workshop equipment products. A device that has been developed and designed in accordance with the EGEA specification fulfills all legal requirements and safety standards. The label certifies that MAHLE develops high-quality and effective service units for workshops.

ALWAYS BY YOUR SIDE

The formula for A/C service units from MAHLE:

$E^3 = \text{Ecological} \times \text{Economical} \times \text{Efficient}$

E³ – FILL: Always ready for use, regardless of the vehicle and ambient temperature.
Benefit: Successful filling guaranteed.

E³ – PUMP: The internal cleansing process for the vacuum pump significantly extends oil change intervals. Up to 1,000 operating hours.
Benefit: Significantly reduced maintenance costs.

E³ – CONNECT: Complete recovery of refrigerant from hoses and couplings.
Benefit: No loss of expensive refrigerant.

ACX AND ATX MANAGER

For MAHLE A/C service units

ArcticPRO® and MAHLE FluidPRO®

Remote diagnostics and service support: anytime and anywhere



- Download the software directly onto your PC
- Connect the service unit to your PC via the USB port or, for new generation units, directly via Wi-Fi
- Remote Service will now start in the ACX Manager software
- Your MAHLE partner or authorized service partner can connect remotely to your MAHLE service unit using the serial number
- Your service partner will see all the values and details on his or her screen and will be able to check what's running on your service unit and whether any of the components are showing errors
- Your service partner can control the service unit and individual components or correct defects remotely

ArcticPRO® ACX 110 | ACX 210

**Weighs just 65 kg and is extremely compact:
our basic/lightweight models**

ADVANTAGES AT A GLANCE

Efficient and innovative—our line of ArcticPRO® A/C service units

Efficient and successful servicing, regardless of the vehicle and ambient temperature

USB interface for software updates, remote diagnostics.

Suitable for: **passenger cars as well as commercial, off-road, agricultural** (ArcticPRO® ACX 110 only), **and hybrid vehicles** (with optional kit)



R-134a & R-1234yf

With the ArcticPRO® ACX 110 the ArcticPRO® ACX 210 your workshop can advance to the highest technological level in air conditioning servicing without major investment, while also guaranteeing maximum protection for the environment. Seize this competitive advantage and get ahead of the competition!

These stations incorporate all the technical finesse of our large AC stations range. They are also compact, mobile and sturdy. Using ACX 110 and ACX 210 is simple and

intuitive, making them a perfect second unit or an ideal mobile solution.

The ACX 110 with optional Agricultural database is the perfect assistant to every agricultural and construction machinery engineer. The agricultural machine database and a special multi-stage program optimise the recharging process and fine-tune it to the specific requirements of AC units that are difficult to access using extended hoses.

FEATURES

- High Resolution display
- Stable metal housing
- Non condensable gas: Automatic check/manual release for ArcticPRO® ACX 110; Automatic for ArcticPRO® ACX 210
- Oil bottles: 2 (fresh oil, used oil)
- Nitrogen forming gas leak test (with optional external kit)

TECHNICAL DATA

- Dimensions: 532 x 617 x 957 mm
- Weight 65 kg
- Reservoir capacity: 12 l
- **OPTIONAL:**
Thermal printer for customer reports
Database for service data
Hybrid Function
Agricultural and construction machinery database (ACX 110 only)

ArcticPRO® ACX 320 | ACX 420

**Attractive price/performance ratio; accurate and fully automated work processes:
our entry-level units**

ADVANTAGES AT A GLANCE

Efficient and innovative—our line of ArcticPRO® A/C service units

Efficient and successful servicing, regardless of the vehicle and ambient temperature

USB interface, Wi-Fi, Bluetooth for remote diagnostics, software updates, and ASA connectivity

Suitable for: **passenger cars as well as commercial, off-road, agricultural, and hybrid vehicles**

LED light indicates status anywhere in the workshop

Ergonomic design: handle to open front of the unit; quick and time saving service



R-134a

ArcticPRO® ACX 320 is the enhance model, which provides you with the extraordinary MAHLE technology. Supplied for systems operating with R134a gas, it can easily be converted into R-1234yf(1) or the new R513a. The new interface design and the numerous online guides allow a customized use according to the workshops' needs and are just some of the strengths of this new line for the professionals that work daily in the A/C recharging service. The 7" Touchscreen interface makes the job setting easy and clear. A Bluetooth WiFi connection ensures constant updating and connecting the station to your printer for the service report at the end.

FEATURES

- High-performance vacuum pump
- 7" high visibility Touchscreen display
- ONETOUCH liftdoor system
- Database for service data
- Wifi connexion
- Autom. purging of non-condensing gas
- Oil bottles : 2 (fresh oil, used oil)

R-1234yf

Don't miss the new ArcticPRO® ACX 420 for R1234yf: looks simple, but is extremely performing. The ArcticPRO® ACX 420 is the A/C station for R-1234yf that has never been seen in the workshops. The accurate design is also expressed in the practical use of the ONETOUCH opening system. The 7" Touchscreen interface guides the less experienced operator and allows to the more-experienced user to maintain total control of the service, thanks to the various customization possibilities. The WIFI connection ensures constant updating and the possibility to print the REPORT at the end of service.

TECHNICAL DATA

- Dimensions: 620 x 720 x 1090 mm
- Weight 74 kg
- Reservoir capacity: 12 l
- **OPTIONAL:**
Oil Care containers
Thermal printer for customer reports
Hybrid Function
N-Leak test Function
Gas identifier
ASA connectivity via Windows PC Service
Agricultural and construction machinery database (only ACX 320)

ArcticPRO® ACX 350 | ACX 450

Convenient, fast, intuitive; meets the highest requirements in A/C servicing:
our professional units

ADVANTAGES AT A GLANCE

Efficient and innovative—our line of ArcticPRO® A/C service units

Efficient and successful servicing, regardless of the vehicle and ambient temperature

USB interface, Wi-Fi, Bluetooth for remote diagnostics, software updates, and ASA connectivity

Suitable for: passenger cars as well as commercial, off-road, agricultural, and hybrid vehicles

LED light indicates status anywhere in the workshop

Remote Display via a smartphone/tablet app (iOS & Android)

Ergonomic design: handle to open front of the unit; quick and time saving service



R-134a

ArcticPRO® ACX 350 is the perfect compromise for those who want a complete station, equipped with the UV Test function and the ArcticPRO® technologies, at a convenient price level. The New Oil bottle and the UV Tracer bottle are both equipped with Oil Care System. ArcticPRO® ACX 350 can be easily converted for managing the R-1234yf, or if necessary, also the new R513a, thanks to convenient conversion kits and special software. Easy to use, and equipped with all the basic ArcticPRO® functions, the ACX 350 model adds the possibility of TechPRO® self-diagnosis tools integration to enhance the management of particular maintenance functions, thus completing the functionality of the A/C Station itself.

FEATURES

- 7" high visibility Touchscreen display
- ONETOUCH liftdoor system
- Database for service data
- Oil Care containers
- Wifi connexion
- Autom. purging of non-condensing gas
- Oil bottles : 3 + 1 fresh oil (PAG), used oil, UV additive + POE

R-1234yf

ArcticPRO® ACX 450 is the complete station for R-1234yf and can be further upgraded with advanced functions, thanks to the integration with TechPRO® self-diagnosis tools. The station is also enriched by the UV Test function, with maximum efficiency thanks to the Oil Care system applied to the tracer container, as well as to the new oil one. Simple to use, thanks to the intuitive graphics of its touch interface, and due to its capacitive 7" display, that allows to operate even when wearing protective gloves. All updates, software and databases are self-installed via to the integrated Wifi connection.

TECHNICAL DATA

- Dimensions: 620 x 720 x 1090 mm
- Weight 74 kg
- Reservoir capacity: 20 l
- **OPTIONAL:**
Thermal printer for customer reports
Remote control via smartphone
N-Leak test Function
Gas identifier
ASA connectivity via Windows PC Service
VCI A/C diagnostics (SW & HW)
Agricultural and construction machinery database (only ACX 350)

ArcticPRO® ACX 380 | ACX 480

Maximum safety and high-end precision/First-class service at the touch of a button:
our premium units

ADVANTAGES AT A GLANCE

Efficient and innovative—our line of ArcticPRO® A/C service units

Efficient and successful servicing, regardless of the vehicle and ambient temperature

USB interface, Wi-Fi, Bluetooth for remote diagnostics, software updates, and ASA connectivity

Suitable for: passenger cars as well as commercial, off-road, agricultural, and hybrid vehicles

LED light indicates status anywhere in the workshop

Remote Display via a smartphone/tablet app (iOS & Android)

Ergonomic design: handle to open front of the unit; quick and time saving service



R-134a

ArcticPRO® ACX 380 is the Top Level A/C station in the series. You could not wish for more! It offers all the distinguishing characteristics of the line, adding the extreme comfort of the integrated POE oil circuit, necessary for those who frequently service hybrid or electric cars, alternating with cars with traditional engines. ACX 380, for R134a systems, is easily convertible into R-1234yf, or if necessary, also in the new R513a, as well as it is possible to extend its functions thanks to the optional integration with the instruments of self-diagnosis TechPRO®. The integration of our special app is innovative and useful, as it is able to control, service and remote the display.

FEATURES

- 7" high visibility Touchscreen display
- ONETOUCH liftdoor system
- Database for service data
- Wifi connexion
- Autom. purging of non-condensing gas
- Remote control via smartphone
- Oil bottles : 4 fresh oil (PAG & POE), used oil, UV additive

R-1234yf

ArcticPRO® ACX 480 is the flagship of the range. With ACX 480 it is possible to fully entrust the recharge service to the automated processes of the station, sure of an impeccable result and being able to devote to other activities in the meantime. The profitability of the top-up service is thus ensured. The integrated Wifi connection is the constant element of the entire line, which allows, in the case of ACX 480 to fully exploit all the innovative features. ACX 480 offers the integration with special APPs, which allow an absolutely innovative and practical management, as well as the integration with the TechPRO® diagnostic tool that enhance its field of action.

TECHNICAL DATA

- Dimensions: 620 x 720 x 1090 mm
- Weight 74 kg
- Reservoir capacity 20 l
- **OPTIONAL:**
N-Leak test Function
Gas identifier
ASA connectivity via Windows PC Service
VCI A/C diagnostics (SW & HW)
Agricultural and construction machinery database (only ACX 380)

ArcticPRO® ACX 255

Best-in-class with intelligent add-on function:
our premium unit



ADVANTAGES AT A GLANCE

Efficient and innovative—our line
of ArcticPRO® A/C service units

Efficient and successful servicing,
regardless of the vehicle and ambient
temperature

USB interface for software updates, remote
diagnostics.

Suitable for: **passenger cars as well as
commercial, off-road and hybrid vehicles**



ArcticPRO® ACX 255 VDA German Association of the
automotive Industry compliant approval for R1234yf.

The station is ready for the connection of the gas identifier.
An ample tank and the vacuum pump ensure a generous
capacity and excellent vacuum. The patented Injection
charging system guarantees a degree of accuracy far in
excess of the standard requirements.

FEATURES

- Incl. ACX RFID refrigerant analysis unit and TÜV certification
- VDA approved
- Color touch screen
- High-performance vacuum pump
- Database for service data
- Thermal printer for customer reports
- Emergency Stop Button
- Oil care system: hermetically sealed oil bottles

TECHNICAL DATA

- Dimensions: 700 x 700 x 1100 mm
- Weight 65 kg
- Reservoir capacity 20 l
- **OPTIONAL:**
Electronic car database

A/C service unit accessories for A/C servicing



ROU – RECOVERY ONLY UNIT

Removes unknown and contaminated
refrigerants from vehicle air conditioning
systems simply and safely

- **Ecological:** Professional and safe disposal protects
people and the environment.
- **Economical:** The ROU is immediately ready to use
together with an A/C service unit. No other materials
and supplies are required.
- **Efficient:** Our patented internal cycle guarantees
a fast service with a 95% recovery rate within 30 minutes.

It's all organized:

One call is all it takes—transport, analysis, and disposal—
automatically and with no paperwork.



ACX UNIVERSAL FLUSHING UNIT FOR REFRIGERANTS R134a AND R1234yf

Flushing tank with support for flexible usage—
entirely independent of the A/C service unit
location and model

- Ergonomically positioned: Control sight glass to check
flushing process and refrigerant purity.
- Flexible application: HP hose connector adapter set for
various A/C service units.
- Flushing adapter set (3/8" and 1/4") allows connection to
all standard flushing adapters for air conditioning systems or
to a system's individual components.
- Coupling adapter set for refrigerants R134a and R1234yf
to connect the LP coupling to the flushing unit.
- Optional: Protective storage cover.



IDX 500 REFRIGERANT GAS IDENTIFIER

Internal analysis unit for the
MAHLE ACX A/C service unit
for refrigerant R134a and R1234yf

- Quicker than previous model.
- Can detect mixtures of R134a - R1234yf at any concentration.
- Offers maximum protection to A/C service units.
- Safe analysis via LP coupling.
- Plug and play allows immediate integration with the unit.
- Simple, automatic operation and instant measurement result.
- Fully automated control via integrated software process.



Now also for
refrigerant R134a
For M.Y. < 2019

ACX RFID REFRIGERANT ANALYSIS UNIT

External analysis unit for the
MAHLE ACX A/C service unit
for refrigerant R1234yf

- Offers maximum protection to A/C service units.
- Safe analysis via LP coupling.
- Plug and play allows immediate integration with the unit.
- Simple, automatic operation and instant measurement result.
- Fully automated control via integrated software process.



A/C SERVICE UNITS

| | ACX 110 | NEW: ACX 320 | NEW: ACX 350 |
|--|-------------------------------------|---------------------------|---|
| Refrigerant | R134a | Convertible | Convertible |
| Convertible to refrigerant R1234yf | - | ■ | ■ |
| Convertible to refrigerant R513a | - | ■ | ■ |
| Vacuum pump | HPV 0.02 mbar | HPV 0.02 mbar | - |
| Refrigerant tank | 12 L | 12 L | 20 L |
| Compressor | 8 cc | 14 cc | 14 cc |
| Filter drier capacity | 75 kg | 100 kg | 150 kg |
| Recovery rate | >95% | >95% | >95% |
| Pressure sensors | LP | LP | Tank, LP, HP |
| Oil bottles | 2 (fresh oil, used oil) | 2 (fresh oil, used oil) | 3 + 1 fresh oil (PAG), used oil, UV additive + POE (in scope of delivery) |
| Oil care bottle (hermetically sealed oil bottles) | - | ▲ | ■ |
| Oil scales | - | 1 | 2 (fresh oil, used oil) |
| Operating temperature | 10°C to 50°C | 10°C to 50°C | 10°C to 50°C |
| Power supply | 230 V, 50 Hz, 800 W | 230 V, 50 Hz, 800 W | 230 V, 50 Hz, 800 W |
| Length of service hoses | 3 m | 4.5 m | 4.5 m |
| Optional: Extension of service hose to | 6 m | 7.5 m | 7.5 m |
| Display | B&W 35x200 4 lines/30 characters | 7" TFT color touch screen | 7" TFT color touch screen |
| Keypad | 4 direction keys, Enter, Esc. | Touch screen | Touch screen |
| Menu languages | 25 | 25 | 25 |
| Warranty | 24 months | 24 months | 24 months |
| Certifications | CE, PED | CE, PED | CE, PED |
| Noncondensable gases through air purge system | Automatic check/manual release | Automatic | Fully automatic |
| Automatic recovery and injection of refrigerant | ■ | ■ | ■ |
| Automatic recovery of compressor oil | ■ | ■ | ■ |
| Automatic injection of UV dye | - | - | ■ |
| Manual operating mode | ■ | ■ | ■ |
| Automatic hose compensation | ■ | ■ | ■ |
| E ³ - fill (always ready for use, regardless of the vehicle and ambient temperature) | ■ | ■ | ■ |
| E ³ - pump (vacuum pump oil change after 1,000 h.) | ■ | ■ | ■ |
| E ³ - connect (complete recovery of refrigerant from hoses and service couplings) | ▲ | ▲ | ■ |
| A/C performance test (for dynamic performance testing of the A/C system in only 10 minutes with a customer report) | ■ W/o printout | ■ | ■ |
| Remote Service (service support anytime, anywhere) | ■ | ■ | ■ |
| Tank pressure reading | ■ | ■ | ■ |
| Refrigerant analyzer | - | ▲ | ▲ |
| Compatibility with hybrid vehicles | ▲ | ▲ | ■ |
| Electronic car database | ■ | ■ | ■ |
| Agricultural and construction machinery database | ▲ | ▲ | ▲ |
| Nitrogen leak test, optional kit required | ■ | ■ | - |
| Nitrogen leak test—integrated connection, optional connector required | - | - | ▲ |
| Forming gas leak test, optional kit required | ■ | ■ | - |
| Forming gas leak test—integrated connection, optional connector required | - | - | ▲ |
| Status indicator lights | - | ■ | ■ |
| Thermal Printer | ▲ | ▲ | ▲ |
| NETWORK printout via Windows PC service | - | ■ | ■ |
| USB interface | ■ | ■ | ■ |
| Wi-Fi | - | ■ | ■ |
| Bluetooth | - | ■ | ■ |
| ASA connectivity via Windows PC service | - | ▲ | ▲ |
| VCI A/C diagnostics (SW & HW) | - | - | ▲ |
| Remote control via smartphone | - | - | ▲ |

■ = AVAILABLE ▲ = OPTIONAL



| | NEW: ACX 380 | ACX 210 | NEW: ACX 420 | NEW: ACX 450 | NEW: ACX 480 | ACX 255 |
|--|---|-------------------------------------|---------------------------|---|---|---|
| Refrigerant | Convertible | R1234yf | R1234yf | R1234yf | R1234yf | R1234yf |
| Convertible to refrigerant R1234yf | ■ | - | - | - | - | - |
| Convertible to refrigerant R513a | ■ | - | - | - | - | - |
| Vacuum pump | - | HPV 0.02 mbar | HPV 0.02 mbar | - | - | HPV 0.02 mbar |
| Refrigerant tank | 20 L | 12 L | 12 L | 20 L | 20 L | 20 L |
| Compressor | 14 cc | 8 cc | 14 cc | 14 cc | 14 cc | 14 cc |
| Filter drier capacity | 150 kg | 75 kg | 100 kg | 150 kg | 150 kg | 150 kg |
| Recovery rate | >95% | >95% | >95% | >95% | >95% | >95% |
| Pressure sensors | Tank, LP, HP | LP | LP | Tank, LP, HP | Tank, LP, HP | Tank, LP, HP |
| Oil bottles | 4 fresh oil, (PAG & POE), used oil, UV additive | 2 (fresh oil, used oil) | 2 (fresh oil, used oil) | 3 + 1 fresh oil (PAG), used oil, UV additive + POE (in scope of delivery) | 4 fresh oil, (PAG & POE), used oil, UV additive | 4 fresh oil, (PAG & POE), used oil, UV additive |
| Oil care bottle (hermetically sealed oil bottles) | ■ | - | ▲ | ■ | ■ | ■ |
| Oil scales | 4 | - | 1 | 2 (fresh oil, used oil) | 4 | 1 |
| Operating temperature | 10°C to 50°C | 10°C to 50°C | 10°C to 50°C | 10°C to 50°C | 10°C to 50°C | 10°C to 50°C |
| Power supply | 230 V, 50 Hz, 800 W | 230 V, 50 Hz, 800 W | 230 V, 50 Hz, 800 W | 230 V, 50 Hz, 800 W | 230 V, 50 Hz, 800 W | 230 V, 50 Hz, 800 W |
| Length of service hoses | 4.5 m | 3 m | 4.5 m | 4.5 m | 4.5 m | 3 m |
| Optional: Extension of service hose to | 7.5 m | 6 m | 7.5 m | 7.5 m | 7.5 m | - |
| Display | 7" TFT color touch screen | B&W 35x200 4 lines/30 characters | 7" TFT color touch screen | 7" TFT color touch screen | 7" TFT color touch screen | 4.3" TFT color touch screen |
| Keypad | Touch screen | 4 direction keys, Enter, Esc. | Touch screen | Touch screen | Touch screen | Touch screen |
| Menu languages | 25 | 25 | 25 | 25 | 25 | 25 |
| Warranty | 24 months | 24 months | 24 months | 24 months | 24 months | 24 months |
| Certifications | CE, PED | CE, PED | CE, PED | CE, PED | CE, PED | CE, PED, TÜV, VDA approved |
| Noncondensable gases through air purge system | Fully automatic | Automatic check/manual release | Automatic | Fully automatic | Fully automatic | Fully automatic |
| Automatic recovery and injection of refrigerant | ■ | ■ | ■ | ■ | ■ | ■ |
| Automatic recovery of compressor oil | ■ | ■ | ■ | ■ | ■ | ■ |
| Automatic injection of UV dye | ■ | - | ■ | ■ | ■ | ■ |
| Manual operating mode | ■ | ■ | ■ | ■ | ■ | ■ |
| Automatic hose compensation | ■ | ■ | ■ | ■ | ■ | ■ |
| E ³ - fill (always ready for use, regardless of the vehicle and ambient temperature) | ■ | ■ | ■ | ■ | ■ | ■ |
| E ³ - pump (vacuum pump oil change after 1,000 h.) | ■ | ■ | ■ | ■ | ■ | ■ |
| E ³ - connect (complete recovery of refrigerant from hoses and service couplings) | ■ | ■ | ▲ | ■ | ■ | ■ |
| A/C performance test (for dynamic performance testing of the A/C system in only 10 minutes with a customer report) | ■ | ■ W/o printout | ■ | ■ | ■ | - |
| Remote Service (service support anytime, anywhere) | ■ | ■ | ■ | ■ | ■ | ■ |
| Tank pressure reading | ■ | ■ | ■ | ■ | ■ | ■ |
| Refrigerant analyzer | ▲ | ▲ | ▲ | ▲ | ▲ | ■ |
| Compatibility with hybrid vehicles | ■ | ▲ | ■ | ■ | ■ | ■ |
| Electronic car database | ■ | ▲ | ■ | ■ | ■ | ▲ |
| Agricultural and construction machinery database | ▲ | - | - | - | - | - |
| Nitrogen leak test, optional kit required | - | ■ | ■ | - | - | - |
| Nitrogen leak test—integrated connection, optional connector required | ■ | - | - | ▲ | ■ | - |
| Forming gas leak test, optional kit required | - | ■ | ■ | - | - | - |
| Forming gas leak test—integrated connection, optional connector required | ■ | - | - | ▲ | ■ | - |
| Status indicator lights | ■ | - | ■ | ■ | ■ | - |
| Thermal Printer | ■ | ▲ | ▲ | ▲ | ■ | ■ |
| NETWORK printout via Windows PC service | ■ | - | ■ | ■ | ■ | - |
| USB interface | ■ | ■ | ■ | ■ | ■ | ■ |
| Wi-Fi | ■ | - | ■ | ■ | ■ | - |
| Bluetooth | ■ | - | ■ | ■ | ■ | - |
| ASA connectivity via Windows PC service | ▲ | - | ▲ | ▲ | ▲ | - |
| VCI A/C diagnostics (SW & HW) | ▲ | - | - | ▲ | ▲ | - |
| Remote control via smartphone | ■ | - | - | ▲ | ■ | - |

■ = AVAILABLE ▲ = OPTIONAL