

WELCOME TO WebEvent 26.04.2022

WABCOWÜRTH WORKSHOP SERVICES GMBH

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WEBEVENT AIR CONDITIONING SERVICE

WABCO WURTH

#beCOOLius. Ready for the climate season

Product portfolio
COOLIUS /
Accessories

Air conditioning service from WABCOWÜRTH

Highlights
COOLIUS Portal

Around
Air conditioning
service

Key account
- MAN adjustment

• Frequent source of errors

· What do you need?

· Revenue generator

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Outlook projects



COOLIUS - AIR CONDITIONING SERVICE UNITS



R134A

COOLIUS A10 - W0501030

Mobile entry model Refrigerant tank 11 kg

• Special features: mobile use possible thanks to compact dimensions and easy-to-operate scale locking, operation with voltage converter possible







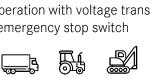


R1234YF

COOLIUS Y10 - W050111030

Mobile entry model Refrigerant tank 11 kg

• Special features: mobile use possible thanks to compact dimensions and easy-to-operate scale locking, operation with voltage transformer possible, emergency stop switch









COOLIUS A30 - W050103030

Large volume • Refrigerant tank 35 kg

• Special features: additional liquid pump, filling quantity database, large oil reservoir (500ml), powerful vacuum pump













COOLIUS Y50 - W050115030

• Refrigerant tank 20 kg Intelligent workshop companion

Special features: "Low Emission": waste oil drain without refrigerant, integrated nitrogen/forming gas test, pressure gauge for refrigerant cylinder, emergency stop switch, 2 fresh oil containers, automatic cleaning process









COOLIUS A50 - W050105030

• Refrigerant tank 20 kg Intelligent workshop companion

• Special features: "Low Emission": waste oil drain without refrigerant, integrated nitrogen/forming gas test, pressure gauge for refrigerant cylinder, 2 fresh oil containers, automatic cleaning process











COOLIUS Y50A - W050115033

Refrigerant tank 20 kg **High-end premium all-rounder**

Special features: see COOLIUS Y50. In addition: integrated refrigerant analyser avoids contamination of the refrigerant supply, 2 fresh oil tanks.











ACCESSORIES AIR CONDITIONING SERVICE







Cover hood

- Series of 10: W067130002
- 30/50 series: W067130003



Hose extension 3m

- R134a: W067230030
- R1234yf: W067130001



Nitrogen bottle holder W067130000







Disposal kit



→ More info at: https://www.wabcowuerth.com/en/wabcowuerth/start.php

AIR CONDITIONING SERVICE FROM WABCOWÜRTH





Everything from one source



Secure and mobile use

Scale design allows safe and mobile use. Application: terrain, agriculture



High quality components

CE certification by TÜV-SÜD



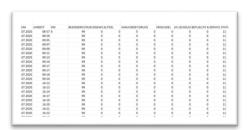
Ready for hybrid and electrical vehicles

Easy change between PAG and POE oil thanks to the internal flushing function

Own production

Individual requirements of markets/customers/KAM can be implemented > Influence on marketing and strategic orientation

Refrigerant management



The data is read out and exported via a USB interface in order to document individual services and evaluate the total refrigerant consumption.

AIR CONDITIONING SERVICE FROM WABCOWÜRTH





Warranty claim

Why original parts?

- Correct and professional maintenance of high quality devices
- Maintenance with suitable, qualitative spare parts
- This is the only way to meet the warranty requirements
- Warranty is increased from 12 to 24 months
- Quality assurance over the entire service life

Scope of delivery:

- a. W052130048 MAINTENANCE PACKAGE-A10/Y10/A30/Y50/A50
 - bottle of vacuum pump oil, 1 filter dryer, 1 service sticker and
 1 gasket for oil drain plug vacuum pump
- b. W052930099 MAINTENANCE PACKAGE-Y50A
 - bottle of vacuum pump oil, 1 filter dryer, 1 service sticker,
 1 gasket for oil drain plug vacuum pump, 1 coalescence filter, 1 external white filter,
 1 flow restrictor and 2 o-rings



COOLIUS PORTAL



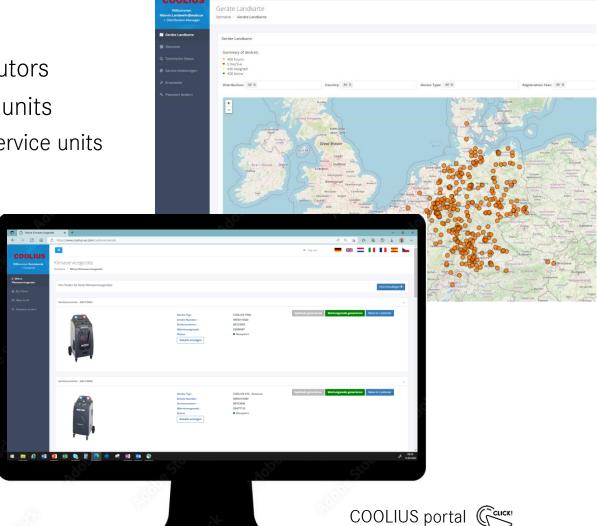
Everything from one source

- Access for customers, technicians and distributors
- Helpful overview of all air conditioning service units
 - ➤ Map overview of registered air conditioning service units
- All important information is available





- Spare parts
- Software updates
- Generation of maintenance and flushing code

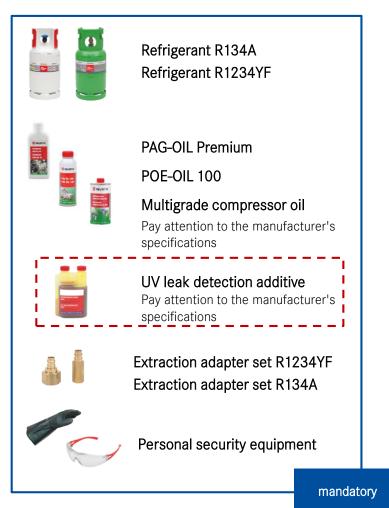


ALL ABOUT AIR CONDITIONING SERVICE





What do you need?





AROUND THE AIR CONDITIONING SERVICE



Frequent sources of error

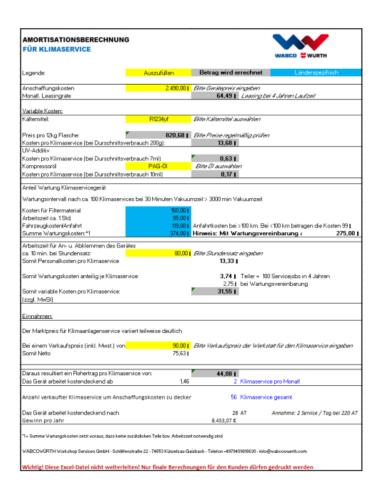
- No certificate of competence (EC 307/2008)
- Working without protective equipment
- Condition and tight fit of the Schrader valves
- Error memory query
- Before the actual air conditioning service: Carry out a functional test of the AC system.
- Selection of wrong vehicle in database → incorrect filling quantity
- Refilling without repair of leakage (EG2006/40/Art.6) Pressure loss test necessary
- Air conditioning compressor replacement without flushing

AROUND THE AIR CONDITIONING SERVICE

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Turnover generator





Amortization calculator

KEY ACCOUNT

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Adjustment MAN

- The MAN TGE has been using the refrigerant R1234yf in vehicle classes N1, M1, N2 and M2 since 02.2021.
- Article number: WW02800410
- Adjustments Y50A:
 - Only one oil connection: PAG oil (hermetically sealed)
 - TKR quick couplings with safety valve
 - Flushing kit included
 - Bracket optional W067130135
- Cover hood included
- Online device instruction included
- No official release yet, but meets all MAN requirements
 - → Positive audit
 - → Written confirmation for the use of the flyer and thus the start of the sale



OUTLOOK CO2 as a refrigerant





"A rollout of CO2 air conditioning is planned this year " (statement Mr. Huhn, Volvo Jan. 2022).

E-vehicles with heat pump - rising trend

- Air conditioning = "Must-Have
 - All-electric and hybrid vehicles
 - Thermal management system
- → The air conditioning system in the vehicle is changing!
- → Thermal management system failure = vehicle stops!
- CO2 air conditioning service unit from WABCOWÜRTH
 - Market launch summer 2022
 - firstly for small-volume CO2 systems
 - Device for large-volume systems will follow





CO2 heat pump:

- le
- ID4
- ID3
- Q4 e-tron
- Enyaq



CO2 heat pump:

- eCitaro
- Urbino 15 LF
- Urbino Hydrogen
- Volvo/MVC

Timely:

Volvo in general

E-Bus Manufacturer:

- Ebusco
- VDL
- BYD
- Skoda bus
- Quantron





CO2 heat pump:

Claas II

Timely:

MAN

E-Truck Manufacturer:

- Volta Trucks
- Volvo
- lveco
- Nikola

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OUTLOOK

Connectivity





Market trend



- IoT and digitalization of workshops
- Smart air conditioning service units
- Wi-Fi and Bluetooth functions
- Callable real-time data such as refrigerant consumption via an app/browser
- Sending work orders from mobile application to air conditioning service unit

Development WABCOWÜRTH

Step 1

- Hardware development (connectivity module)
 - ✓ Adaptable via USB interface
 - ✓ creates virtual website
- COOLIUS Select and display is shown on cloud
- Interaction via the application is possible
- External printer connection
- Update firmware and software
- Readout of error codes via hotline

Step 2

- Interface to existing DMS systems
- Connection with VCI

- "Digital twin" simulator
 - ✓ Training opportunities for customers

Step 3

✓ Hotline support

✓ Sales support





THANK YOU FOR YOUR ATTENTION!