



ACE 21

Nussbaum

New refrigerant R-1234yf – new AC service equipment

The EU regulation 2006/40/EG in force since January 2011, is obliging car manufacturers to use an alternate refrigerant that reduces the Global Warming Potential down to maximum 150. The new AC service station ACE 21, is developed by NUSSBAUM for automotive R-1234yf AC systems.



- **Fully automatic Air Conditioning service station R-1234yf**
- Complies with SAE J2843 performances & German car manufacturers' specifications (VDA)
- Developed under TÜV directives to avoid explosion zones in workshops with R-1234yf refrigerant
- Hybrid vehicle compatible through the additional POE oil charging system. It includes an automatic flushing process of the service hoses & the internal solenoid-valve block
- Intuitive keypad with navigation help
- Vehicle database with updating through USB & Internet
- Integrated 24 columns ticket printer
- Service reports & refrigerant book-keeping
- Wireless networking & data transmission via USB
- Robust & hermetic oil / UV management system
- Temperature measurements & recording with standard 5 meters temperature probe or wireless transmitter (option)
- External refrigerant identification module (option)
- Integrated refrigerant identification module (option)
- Preset for nitrogen system leak testing (option)
- Flushing function for AC systems (option)
- User-friendly & economic maintenance routine
- Suitable to telematic remote assistance
- Extension to full PC-touch screen technology
- Hybrid Upgrade-Kit
- Modular extension possibilities
- 25 languages coverage, including Chinese
- Fully developed & made in Germany



Upgrade from ACE 21 to ACW 21 – The NUSSBAUM products are known for their comfortable modularity...

ACE 21 service station can easily be upgraded to a PC touch-screen configuration, giving unlimited possibilities of extension for further functionalities as ECU diagnostics or any Windows XP based complementary applications. Take advantage of a PC based AC service station and implement the ACW equipment in your workshop process.



	ACE 21	ACE 21 HYBRID
Application	R1234yf air conditioning systems cars and trucks	
Hybrid application	Optional with Upgrade-Kit	Standard
Performance	SAE J2843	
Certification	CE PED TÜV SAE J2843 Performance and VDA specification	
Recovery rate	95%	
Accuracy Recharging	1g resolution / ± 15g accuracy	
Accuracy Recovery	1g resolution / ± 15g accuracy	
Accuracy Oil / UV	1g resolution / ± 5g accuracy	
Tank operational capacity	20 kg	
Capacity provision with	Database	
Compressor	Reinforced type for recovery 9ccm 400g/min at 50Hz 0°C	
Vacuum pump	Dual stage 142 l/min 0,02mbar pressure	
Service hoses	3,0m SAE J 2888	3,0m SAE J 2888
Waste oil capacity	500ml	
PAG Oil capacity	500ml	500ml
POE Oil capacity	—	500ml
UV capacity	250ml	250ml
Display	4,3" Colour TFT Display	
Elektronic system	Microprocessor	
Printer	Ticket 24 columns	
Interface	USB RS232 optional: Wireless data transmission	
Temperature probe	5m optional: Kit with wireless temperature measurements	
Temperature range	10 – 50°C	
Vehicle database	Selection on Display Update via USB Stick	
Languages	25 languages, incl. Chinese	
Voltage	230 V 50/60 Hz	
Dimensions	1500 x 650 x 720mm	
Weight	120kg	

- 1 Ergonomic & robust EPP storage tray for tools and accessories
- 2 Update of vehicle database via USB stick. Recording refrigerant book-keeping and service reports.
- 3 Graphic visualization of vehicles' service connections
- 4 Convenient service hoses winder
- 5 Automatic & hermetic Oil / UV-Filling system, compatible with car manufacturers' specific cartridges
- 6 Hermetic POE Oil cartridge for hybrid vehicles with electric compressors
- 7-8 Recording and printing AC system's performances, before and after servicing with 5m temperature probe and optional wireless transmitter.
- 9 Quick connection for N2 bottle or Tracer gas
- 10 Professional air conditioner flushing kit
- 11 Easy maintenance: You can replace filters, service the vacuum pump & make the calibration-checks without opening the equipment

