

KOOLKARE



AIR CONDITIONING SERVICE EQUIPMENT

THE STANDARD IN INFORMATION AND DIAGNOSTICS SYSTEMS



BLIZZARD QTECH IV

A future-oriented user experience

QTECH IV is the new model designed for different types of refrigerants. Future-oriented standard features, Wi-Fi connectivity and premium quality components make QTECH IV an ambassador among most modern A/C service stations.

Fully automatic A/C service station for recovery, recycling and recharging of different types of refrigerants. The innovative and exclusive solution allows to set the R134a or HFO1234yf gas directly during activation in the workshop.

The QTECH IV is the most modern expression of our competences. The most important features are standard, from the Wi-Fi connectivity, the very clean and safe hybrid function and pressure test with forming gas or nitrogen.

Menu navigation is intuitive, professional, designed for an easy and rapid work with the machine. The 7" color touchscreen offers a very special user experience.

The unit can handle the hermetic oil and dye cartridges, as well as the hermetic and refillable containers.

With its advanced technology based on an innovative solenoid valve system, QTECH IV consumes less than 20% energy, compared to the previous models.

The upgrade with the Gas Analyser detects the different components of refrigerant, and the result provides information about their percentages. Further, this innovative solution offers the benefit of an external Analyser (no contamination of the A/C Station) without taking up any external space.

The futuristic design conceived by a designer expert in the motorcycle industry was applied to the machine's features by exploiting information provided by several workshops. The result is easy serviceability: less than 30" to open the revolving control panel and less than 2 minutes to remove both plastic covers and access all the internal components.

Further, QTECH IV grants excellent maneuverability as a result of the considerable axial distance between the two wheels. User-friendly features: pressure gauges and touch screen are perfectly inclined for excellent ergonomics.



Standard



7" color touch screen



Hermetic containers



Hermetic and refillable containers



Connectivity Wi-Fi



Nitrogen



Hybrid



Status light



Printer

Option



Gas analyser HFO or R134a



Flushing kit

BREEZE IV

The easy solution for tomorrow's workshop

BREEZE IV is the new model designed for different types of refrigerants. Future-oriented and premium quality components make BREEZE IV the most valuable A/C service station.

Fully automatic A/C service station for recovery, recycling and recharging of different types of refrigerants.

The innovative and exclusive solution allows to set the R134a or the HFO1234yf gas directly during activation in the workshop.

BREEZE IV offers outstanding "value for money" as it is very easy to use with its 4,3" touch screen display. With its modular features, the machine can be configured to meet the most specific needs.

The upgrade with the Gas Analyser detects the different components of the refrigerant, and the result provides information about their percentages. Further, this innovative solution offers the benefit of an external Analyser (no contamination of the A/C Station) without taking up any external space; Hybrid Kit and Wi-Fi connectivity complete the optional key points of this machine.

The C.A.R. method (Compressor Assisted Recharge) allows fast and accurate gas charging also in high temperature conditions. With the advanced technology based on an innovative solenoid valve system, BREEZE IV consumes 20% less energy than the previous models.

The futuristic design conceived by a designer expert in the motorcycle industry was applied to the machine's features by exploiting information provided by several workshops.

Easy serviceability: less than 30" to open the revolving control panel and less than 2 minutes to remove both plastic covers and access all the internal components. Further, BREEZE IV grants excellent maneuverability as a result of the considerable axial distance between the two wheels. User-friendly features: pressure gauges and touch screen are perfectly inclined for excellent ergonomics.



Standard



4,3" Touchscreen



Standard containers



Printer

Option



Connectivity Wi-Fi



Flushing kit



Gas analyser HFO or R134a



Kit hybrid



Hermetic containers

DUAL GAS 12

The total dual solution

Best expression of the technological and functional competences of Sun.

Two devices in one for a simple, fast, clean and safe climate service on R134a and HFO1234yf systems.

Fully automatic A/C service station for recovery, recycling and recharging with the refrigerants R134a and HFO1234yf. Two different circuits and separated components for each gas ensure the purity of the refrigerant.

Machine operation is very intuitive and user-friendly via a 7" color touchscreen display. The navigation menu is special for its user-friendly features, and guides even inexperienced users safely through the professional air conditioning service.

All associated Sun features are standard, from the very clean and safe hybrid function, the pressure test with forming gas or nitrogen, automatic compensation of the service hose length and the hermetic and refillable containers.

The upgrade with the Gas Analyser detects the different components of refrigerant, and the result provides information about their percentages. Further, this innovative solution offers the benefit of an external Analyser (no contamination of the A/C Station) without taking up any external space.

The workshop-oriented design is user-friendly, space saving in the workshop, thus making machine maintenance very and enables easy handling easy. The high quality materials ensure resistance to kicks and impact.

DUAL GAS 12 is the special solution proposed by Sun for both current and future workshops. The fully equipped A/C service station offers solutions for safe and professional service with the refrigerant HFO1234yf and R134a.



Standard



7" Colour touch screen



4 Separate lines



Hybrid



Nitrogen



Connectivity Wi-Fi



Printer

Option



Gas Analyse HFO oder R134a



Flushing kit

HD-S

The power performer for big A/C systems

HD-S follows increased capacities, which are necessary for use on buses and trains.

SUN' special product for refrigerant R134a. Performance parameters for HD-S comply with the increased capacities required for services on big A/C systems, such as buses and trains.

Fully automatic A/C service station for recovery, recycling and recharging with refrigerant R134a on very large A/C systems, such as those installed in buses and trains. The high refrigerant recovery rate ensures a crucial contribution to present day environmental protection.

The special refrigerant high pressure gear pump, with a capacity of 1 kg/min flow rate in the liquid phase, provides a quick refrigerant charge, and along with the large 40 L refrigerant storage tank and 6 m service hoses, it makes working on very large A/C systems easy and fast.

The alphanumeric display guides the operator easily through the logical and professional menu navigation. The pressure test with forming gas or nitrogen is a standard feature that provides an ecological method for leak detection.

Another important feature is the discharge of "non-condensable" gases from the internal tank, which takes place automatically.

The workshop-oriented design is user-friendly and space saving. It enables easy handling in the workshop, thus facilitating maintenance work on the machine. The high quality materials make this high-end A/C service station resistant to kicks and impact.



Standard



Gear pump



Nitrogen



USB – port

TECHNICAL DATA

	BLIZZARD QTECH IV	BREEZE IV	DUAL GAS	HD-S
Type of refrigerant	HFO1234yf or R134a	HFO1234yf or R134a	R134a and HFO1234yf	R134a
Voltage	220-240V 50/60 Hz	220-240V 50/60 Hz	220-240v 50 Hz	220-240v 50/60 Hz
Vacuum pump	100 l/min, vacuum level 0,1 mbar	51 l/min, vacuum level 0,2 mbar	100 l/min, vacuum level 0,1 mbar	170 l/min, vacuum level 0,1 mbar
Sealed compressor	1/3 HP	1/3 HP	2 x 1/3 HP	21 cc
Recovery speed	300 g/min in liquid phase	300 g/min in liquid phase	300 g/min in liquid phase	300 g/min in liquid phase
Scale resolution	10 gr	10 gr	10 gr	10 gr
Oil scale resolution	5 gr	-	5 gr	5 gr
Working temperature range	11/49 °C	11/49 °C	11/49 °C	11/49 °C
Filter system	1 filter for humidity	1 filter for humidity	2 filters for humidity	2 filters for humidity
Refrigerant tank	12 liters refillable	12 liters refillable	2x12 liters refillable	40 liters refillable
Hoses	3 meters	3 meters	2 pairs, 3 meters each	6 meters
Automatic service valves	Standard	Not available	Standard	Not available
Display	7" color touchscreen	4,3" color touchscreen	7" color touchscreen	LCD alphanumeric mm 146 x 82,5
Connectivity Wi-Fi	Standard	Option	Not available	Not available
Hybrid function / electrically driven compressors	Standard	Option	Standard	Not available
Pressure test forming gas / nitrogen	Standard	Not available	Standard	Standard
Gas identifier / Gas Analyser	Option, Analyser	Option, Analyser	Option, Analyser	Not available
Flushing kit	Option	Option	Option	Not available
Status light	Standard	Not available	Not available	Not available
Bottle heater	Standard	Not available	Standard	Not available
Thermal printer	Standard	Standard	Standard	Standard
A/C diagnosis	Standard (R134a)	Standard (R134a)	Not available	Not available
Hermetic and refillable containers for oil and dye	Standard 2 + 1	Not available	Standard 2 + 2	Not available
Hermetic disposable containers for oil and dye	Standard 2 + 1	Option 1	Option	Not available
Refillable standard containers for oil and dye	Not available	Standard 1	Not available	Standard 1+ 1
Automatic air purge	Standard	Not available	Standard	Standard
Dimension / weight	cm 67 x 68 x 108, 77 kg	cm 67 x 68 x 108, 63 kg	cm 67 x 62 x 107, 122 kg	cm 80 x 84 x 115, 127 kg
Dimension / weight with packaging	cm 71 x 74 x 125, 95 kg	cm 71 x 74 x 125, 81 kg	cm 91 x 72 x 126, 132 kg	cm 91 x 91 x 126, 137 kg

ACCESSORIES AND OPTIONS

SAFE AND SUITABLE SOLUTIONS

A professional and comprehensive climate service in the automotive industry requires, in addition to the climate station, accessories, consumables, leakage control solutions and items for regular maintenance.

In order to guarantee safe and suitable solutions in the field of climate service, Sun presents the following range of products and accessories.

KIT.GAS



KIT.GAS (HFO1234yf)
Gas analyzer



KIT.GAS (R134a)
Adapter for KIT.GAS



Gas identifier
XS180.000000 (HFO)

Verifying the purity of the refrigerant before the climate service is very important because it avoids costs of decontamination of the station, repair of the A/C system and allows the regular disposal of the contaminated gas.

The workshop protects the environment and avoids the risks of possible lawsuits. In most Sun stations, a gas analyzer or gas identifier can be installed.

- The gas identifier verifies the correct purity of the refrigerant with a "pass-fail" test (previous models)
- The gas analyzer also detects the percentages of the different refrigerant component (the whole actual range of stations with analyser option QTECH IV, BREEZE IV and DUAL GAS 12)

KIT.HYBRID

This After-Market option allows adding the Hybrid feature to those climate stations equipped with appropriate software (BREEZE IV).



KIT.HYBRID
Kit Hybrid upgrade option
for HFO1234yf and R134a

XK185.000000 EASYREC PRO (HFO & R134a)

The mobile equipment for the complete extraction of different types of refrigerant from air conditioning systems (CFC, HCFC, HFC, fuel). With Easyrec Pro, a mobile scale (AEK302) and a recycling tank, contaminated or unknown refrigerants can be easily and quickly extracted from air conditioning systems without the use of laborious procedures such as dry ice or other processes.

National or local regulations require the coordinated and controlled disposal of these contaminated refrigerants. With Easyrec Pro, the responsible workshop can easily manage the appropriate recycling process and thus make a valuable contribution to environmental protection.

The package includes the 1.5 m service hose for the system (blue), 3 connections for HFO1234yf, R134a and 1/4" SAE and the 1.5 m hose for connecting Easyrec Pro to the cylinder (yellow).



XK185.000000
EASYREC PRO (HFO & R134a)

AEK207-A (R134a), AEK207-B (HFO1234yf) Manual injector

This device is perfect for manual injection of specific oils or tracers. An easy-to-use solution even for climate stations without the oil injection or tracer feature.



AEK207-A (R134a),
AEK207-B (HFO1234yf)
Manual injector

ACCESSORIES AND OPTIONS

AEK102-N21

Flushing Kit (neutral unit requires configuration with Kit HFO or Kit R134a)

AEK102-N21-1 Kit HFO for Flushing Kit AEK102-N21

AEK102-N21-2 Kit R134a for Flushing Kit AEK102-N21

If the compressor or other components of a climate system break down, you must remove any possible residue that may be found in the system before reassembling the equipment. Many compressor manufacturers do not guarantee their new components unless the A/C system is cleaned before installation.

The advantages of this flushing kit are:

- Environmentally friendly because no solvents are used but only refrigerant
- Very efficient cleaning thanks to the high washing speed obtained with the vacuum in the tank
- Patented universal adapters for creating bypasses
- The amount of refrigerant can be defined by the user (washing a component rather than a system)
- Time-saving and efficiency thanks to the fast process and fully automatic cycles



AEK102-N21
Flushing Kit
(neutral unit requires
configuration with
Kit HFO or Kit R134a)

AEK102-N21-1 Kit HFO
for Flushing Kit AEK102-N21

AEK102-N21-2 Kit R134a
for Flushing Kit AEK102-N21

AEK102-N7-R5 Bypass adapter set

The set contains adapters needed to install a bypass of a removed component (e.g. compressor, expansion valve, filter) to the A/C system before cleaning with the Flushing Kit.



AEK102-N7-R5
Bypass adapter set

AEK232-2 Kit Diagnosis Sight Glass HFO - AEK232-1 Kit Diagnosis Sight Glass R134a

The DIAGNOSIS SIGHTGLASS is a perfect and quick solution to determine the quality of a refrigerant. The refrigerant flows through the transparent sight glass, allowing its quality to be observed and assessed: transparency indicates good quality, while the presence of tracer, impurities, residues or any moisture can also be checked.

The visual inspection of the refrigerant should be the first step in every air conditioning service. The sight glass can be connected directly to the A/C system. After a vacuum has been created in the sight glass with the A/C Station ("T" adapter), the refrigerant of the running system flows and can thus be observed. Other possible uses are, of course, the observation during the recovery phase (sight glass between the system and the A/C Station), the quality control of new purchase of refrigerant or to ensure the result of a flushing process. The kit includes: case, sightglass with „T" adapter, HP and LP quick coupler, HP and LP service hoses 70 cm, instruction leaflet.



AEK232-2 Kit Diagnosis
Sight Glass HFO

AEK232-1 Kit Diagnosis
Sight Glass R134a



CNT4012
40 L bottle
per R134a
R22
R404a
R507
R407C



AEK302
Electronic Scale
100kg capacity



AEK317
Double valve
extractor screwdriver



DB.AUTOAGRI
Data Base update
for car, commercial,
agricultural vehicles



AEK120-E
Digital
Thermometer





















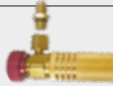
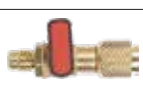






KIT.STM
Thermal Printer Upgrade
option (Breeze IV)



IMB0011 Dust Cover
(Breeze IV, QTech IV)
IMB0026 Dust Cover
(DUAL GAS 12, HD-S)

CONNECTORS AND HOSES

For the daily climate service, in addition to the replacement of wear parts, maintenance items, products for repairs, connectors, hoses and adapters are also required. Here is a selection of the necessary products

	TUB2132	RED HOSE 3 MT. HFO		TUB2122	BLU HOSE 3 MT. HFO
	TUB2136	RED HOSE 6 MT. HFO		TUB2126	BLU HOSE 6 MT. HFO
	TUB2146	RED HOSE 3 MT. R134a		TUB2147	BLU HOSE 3 MT. R134a
	TUB1148	RED HOSE 6 MT. R134a		TUB1149	BLU HOSE 6 MT. R134a
	TUB1144	RED HOSE 6 MT. 1/4" SAE		TUB1145	BLU HOSE 6 MT. 1/4" SAE
	AEK1234A	High quality QUICK COUPLER HP HFO Parker		AEK1234B	High quality QUICK COUPLER LP HFO Parker
	AEK208A	High quality QUICK COUPLER HP R134a Parker		AEK208B	High quality QUICK COUPLER LP R134a Parker
	AEK228A	QUICK COUPLER HP R134a		AEK228B	QUICK COUPLER LP R134a
	AEK229A	QUICK COUPLER HP HFO1234yf		AEK229B	QUICK COUPLER LP HFO1234yf
	AEK230A	QUICK COUPLER HP R134a 1/4" SAE		AEK230B	QUICK COUPLER LP R134a 1/4" SAE
	AEK218 - A	HP "puff free" coupler for HFO		AEK218 - B	LP "puff free" coupler for HFO
	AEK224 - A	HP "puff free" coupler for R134		AEK224 - B	LP "puff free" coupler for R134a
	AEK231-1	Special swift coupling R134a		AEK211	Special quick-connect coupling R134a (Ford, BMW)
	AEK231-2	Special swift coupling HFO		AEK277	Special quick-connect coupling HFO1234yf (Ford)
	AEK109A	Terminal valve, high pressure 1/4" SAE		AEK318	Fitting HFO W 21.7 x 1/14" LH for Dupont bottle
	AEK109B	Terminal valve, low pressure 1/4" SAE		AEK319	Fitting HFO 1/2"-16 ACME LH for Honeywell bottle
	AEK116 - 1	Adapter for refrigerant bottles for R134a		AEK320	Fitting LP for bottle R134a
	AEK213	Nitrogen coupler for A/C machines		RAC5216	Fitting hose M14 x 1,5 HFO coupler M12 x 1,5

CONSUMABLES AND CONTAINERS

- Simple solution for the user
- Everything for both HFO and R134a
- Mechanical and electric compressor
- Choice of bottles or hermetic cartridges
- Focused on the most used PAG/POE and viscosity standards



TOP RECOMMENDATION

Oil / Tracer	PAG / POE	Viscosity	Bottle		Cartridge	
Oil	PAG	100	AEK275	250 ml	AEK275 - N	250 ml
		46	AEK276	250 ml	AEK276 - N	250 ml
	POE	80	AEK287	250 ml	AEK287 - N	250 ml
Oil / Tracer	POE	85	AEK386	250 ml	AEK386 - N	250 ml
Tracer			AEK290	250 ml	AEK290 - N	125 ml

OIL PAG	100	AEK275	Oil bottle PAG100 - 250ml for R134a, HFO1234yf mechanical and electric compressor
		AEK275-N	Sealed oil cartridge PAG100 - 250ml for R134a, HFO1234yf mechanical and electric compressor
	46	AEK276	Oil bottle PAG46 - 250ml for HFO1234yf, R134a mechanical and electric compressor
		AEK276-N	Sealed oil cartridge PAG46 - 250ml for R134a, HFO1234yf mechanical and electric compressor
OIL POE	80	AEK287	Oil bottle POE80 - 250ml for R134a, HFO1234yf mechanical and electric compressor
		AEK287-N	Sealed oil cartridge POE80 - 250ml for R134a, HFO1234yf mechanical and electric compressor
OIL POE + TRACER	85	AEK386	Oil + dye bottle POE85 - 250ml for R134a, HFO1234yf mechanical and electric compressor
		AEK386-N	Sealed oil + dye cartridge POE85 - 250ml for R134a, HFO1234yf mechanical and electric compressor
TRACER		AEK290	Dye bottle - 250ml for R134a, HFO1234yf mechanical and electric compressor
		AEK290-N	Sealed dye cartridge 125ml for R134a, HFO1234yf mechanical and electric compressor

OTHER PRODUCTS AVAILABLE

AEK285	Oil bottle POE68 - 250ml for R134a, HFO1234yf mechanical and electric compressor
AEK285-N	Sealed oil cartridge POE68 - 250ml for R134a, HFO1234yf mechanical and electric compressor
AEK265-N	Sealed oil cartridge PAG100 - 250ml for R134a, HFO1234yf mechanical compressor
AEK281	Oil bottle PAG100 - 250ml for R134a and mechanical compressor
AEK283	Oil bottle POE100 - 250ml for R134a and electric compressors



AEK203-C
Sealed bottle of tracer
(55ml)
SALES UNIT = 5



AEK322
Bottle of Sanniflux
Liquid
(1000 ml)
SALES UNIT = 6



RAC8088
Adapter for
previous dye
cartridges



RAC9000
Adapter for
previous
oil cartridges



GRCNT16 GRCNT17 GRCNT18 GRCNT19

Refillable
and hermetic
container
(260 ml)








TAP0051-KIT
Cap for HR
container
kit 10 pc.











STM0012-KIT
Thermal paper
for printer
kit 10 pc.

LEAK DETECTOR

	AEK178	Electronic Leak Detector, one instrument for identifying R134a, HFO1234yf and Hydrogen
	AEK203	Cobra Kit HD- Leak detector for A/C circuits including goggles, UV Cobra lamp, hermetic dye cartridge 55 ml for 7 applications, dye injector (R134a)
	AEK145	UV cobra led lamp, fluorescent enhanced goggles
	AEK304N	WITH NITROGEN HYDROGEN BOTTLE (attention on ADR class 2 for transport) Universal nitrogen leak detection kit with nitrogen hydrogen bottle (950ml) with quick couplers R134a and HFO
	AEK304S	WITHOUT NITROGEN HYDROGEN BOTTLE Universal nitrogen leak detection kit without nitrogen hydrogen bottle (950ml) with quick couplers R134a and HFO
	AEK305	Nitrogen + H2 bottle (950ml)) (attention on ADR class 2 for transport)

MAINTENANCE

	KIT016	Maintenance Kit. Includes 1 bottle 500ml of vacuum pump oil + 1 filter FLT5005
	KIT017	Maintenance Kit. Includes 1 bottle 500ml of vacuum pump oil + 1 filter FLT5512
	KIT018	Maintenance Kit. Includes 1 bottle 500ml of vacuum pump oil + 1 filter FLT5005 + 1 filter FLT5006
	PMP3335	Vacuum pump oil 500 ml ISO46
	TUB1260	Gas sample hose (HFO) for gas analyser and identifier
	TUB1263	Gas sample hose (R134a) for gas analyser and identifier
	FLT5507	Filter for gas analyser & identifier
	FLT8006	Filter for Flushing Kit 30µ (R134a)
	FLT8008	Filter for Flushing Kit 20µ (HFO, R134a)

PART NUMBER

Y2F20020S000	BLIZZARD QTECH IV	Y2NH000000000	Refrigerant Kit HFO1234yf
Y2FH000000000	Refrigerant Kit TOP HFO1234yf	Y2NR000000000	Refrigerant Kit R134a
Y2FR000000000	Refrigerant Kit TOP R134a	Y2NH000000001	Refrigerant Kit HFO1234yf UK
Y2FH000000001	Refrigerant Kit TOP HFO1234yf UK	Y2NR000000001	Refrigerant Kit R134a UK
Y2FR000000001	Refrigerant Kit TOP R134a UK	K6T5A090S00B	DUAL GAS 12
Y2N20020S000	BREEZE IV + STM	XK456A170S51	KOOLKARE HD-S (UV)

sun-workshopsolutions.com

EMEA-JA

Snap-on Equipment s.r.l.
Via Prov. Carpi, 33 - 42015
Correggio (RE)
Phone: +39 0522 733-411
Fax: +39 0522 733-479

Austria

Snap-on Equipment
Austria GmbH
2880 St. Corona/Wechsel,
Nr. 200
Phone +43 2641 24 5 24

France

Snap-on Equipment France
ZA du Vert Galant - 15, rue de la
Guivernone BP 97175
Saint-Ouen-l'Aumône - 95056
Cergy-Pontoise CEDEX
Phone: +33 134 48 58-78
Fax: +33 134 48 58-70

Germany

Snap-on Equipment GmbH
Konrad-Zuse-Straße 1 - 84579
Unterneukirchen
Phone: +49 8634 622-0
Fax: +49 8634 5501

Italy

Snap-on Equipment s.r.l.
Via Prov. Carpi, 33 - 42015
Correggio (RE)
Phone: +39 0522 733-411
Fax: +39 0522 733-410

United Kingdom

Snap-on Equipment Ltd.
Unit 17 Denney Road, King's
Lynn - Norfolk PE30 4HG
Phone: +44 118 929-6811
Fax: +44 118 966-4369

