



GRUPPO CRANEDI

Catalogo **ARIA CONDIZIONATA**



SEASON 2024

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Our story Who are We?

Twenty years of experience, customer oriented approach, a team of young under 30 professionals with an eye to innovation and our planet: this is the winning formula of Elke.

Elke is an Italian manufacturing company based in Nichelino, Torino. Its core business is the production and trade of innovative solutions for the maintenance of the entire cold chain.

Elke turns to 3 different markets:

- Automotive A/C systems
- A/C systems in domestic and industrial sectors
- Domestic and industrial refrigeration

We export all over the world.

Since January 2021, we are officially Authorized exporters.

We are proudly business partners of the most important manufacturers of A/C charging stations, as well as spare parts dealers and equipment suppliers. Our partners and distributors are located in more than 50 Countries all over the world.

La nostra storia Chi siamo?

Vent'anni di esperienza, approccio orientato al cliente, un team di giovani professionisti under 30 con un occhio all'innovazione e al nostro pianeta: questa è la formula vincente di Elke.

Elke è un'azienda manifatturiera italiana con sede a Nichelino, Torino. Il suo core business è la produzione e la commercializzazione di soluzioni innovative per la manutenzione dell'intera catena del freddo.

Elke si rivolge a 3 mercati diversi:

- Sistemi di climatizzazione automotive
- Impianti A/C nei settori domestico e industriale
- Refrigerazione domestica e industriale

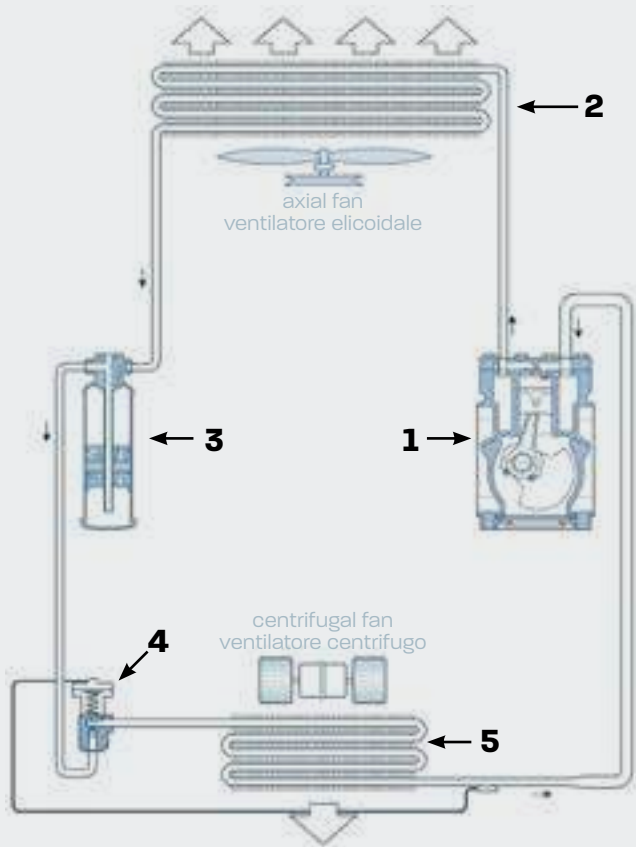
Esportiamo in tutto il mondo.

Da gennaio 2021 siamo ufficialmente esportatori autorizzati.

Siamo orgogliosamente partner commerciali dei più importanti produttori di stazioni di ricarica A/C, nonché rivenditori di ricambi e fornitori di attrezzature. I nostri partner e distributori sono presenti in più di 50 Paesi in tutto il mondo.

A/C system diagram

schema impianto A/C



1. COMPRESSOR / COMPRESSORE

The core of the A/C system. Through compression, it allows the refrigerant to change its state, from gaseous to liquid, and to flow through the different components of the system, high and low pressure side.

Il centro dell'impianto A/C. Attraverso la compressione, consente al refrigerante di cambiare il suo stato, da gassoso a liquido, e di fluire attraverso i diversi componenti dell'impianto, lato alta e bassa pressione.

2. CONDENSER / CONDENSATORE

Essential for changing the state of the coolant in the system, it is positioned in front of the engine cooling radiator. The function of the condenser is to ensure that the state of the refrigerant changes from gaseous to liquid (condensation), through the transfer of heat from the refrigerant to the ambient air.

Essenziale per modificare lo stato del refrigerante nel sistema, è posizionato anteriormente rispetto al radiatore di raffreddamento del motore. La funzione del condensatore è quella di far sì che lo stato del refrigerante cambi da gassoso a liquido (condensazione), attraverso la cessione di calore del refrigerante all'aria dell'ambiente.

3. DRYER FILTER

FILTRO ESSICCATORE

It is used to filter particles and debris that flow into the circuit and absorb any humidity. Additionally, it also stores oil and coolant.

Serve per filtrare particelle e detriti che fluiscono nel circuito e assorbire l'eventuale umidità. Inoltre, immagazzina anche olio e refrigerante.

4. THERMAL EXPANSION VALVE (TXV) VALVOLA DI ESPANSIONE TERMICA (TXV)

It guarantees the correct operating parameters of the A/C system as it controls the quantity of refrigerant released to the evaporator. The TXV separates the high and low pressure sides and guarantees an optimal operation of the system, with a yield corresponding to the cold air production needs.

Garantisce i parametri di funzionamento corretti dell'impianto A/C poiché controlla la quantità di refrigerante rilasciato all'evaporatore. Il TXV separa i lati di alta e bassa pressione e garantisce il funzionamento ottimale dell'impianto e una resa corrispondente alle esigenze di produzione di aria fredda.

5. EVAPORATOR / EVAPORATORE

It guarantees the change of state of the refrigerant, from liquid to gaseous (evaporation). During the process, the blown air flows across the surface of the evaporator and gives off heat to the refrigerant, cooling before being released into the passenger compartment.

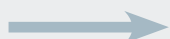
Garantisce il cambio di stato del refrigerante da liquido a gassoso (evaporazione). Durante il processo, l'aria soffiata fluisce attraverso la superficie dell'evaporatore e cede calore al refrigerante, raffreddandosi prima di essere immessa all'interno dell'abitacolo.

Wash the A/C system? *When, Why and What*

Lavare l'impianto A/C? *Quando, Perché e Cosa*

WHEN / QUANDO ?

Replacement of the compressor
Contamination of the system
Sostituzione del compressore
Contaminazione dell'impianto



WHY / PERCHÈ ?

To avoid losing the manufacturer's warranty
To avoid additional damages to the system
Per non perdere la garanzia del costruttore
Per evitare ulteriori danni all'impianto

VISUAL DIAGNOSIS AND POSSIBLE CONTAMINANTS / DIAGNOSI VISIVA E POSSIBILI CONTAMINANTI



LIGHT BROWN COLOR

System / Compressor exposed to overheating

COLORE MARRONE CHIARO

Impianto / Compressore esposto a surriscaldamento



DARK BROWN / BLACK COLOR

System / Compressor exposed to excessive overheating

COLORE MARRONE SCURO / NERO

Impianto / Compressore esposto a surriscaldamento eccessivo



VISIBLE METAL CHIPS / PARTICLES

Compressor seizure caused by oil exhaustion or inadequate lubrication

TRUCIOLI / PARTICELLE DI METALLO VISIBILI

Grippaggio del compressore provocato da esaurimento dell'olio o da lubrificazione inadeguata



VISIBLE RUBBER / PLASTIC COMPOUNDS

Aged seals, aggressive additives reacting with seals and hoses, dryer filter failure or excessive dryer wear

COMPOSTI DI GOMMA / PLASTICA VISIBILI

Guarnizioni invecchiate, additivi aggressivi che reagiscono con guarnizioni e tubi flessibili, avaria del filtro essiccatore o eccessiva usura dell'essiccatore

WHAT / COSA ?

It is not possible to wash compressors, expansion/orifice valves, filter dryers or accumulators, which must therefore be bypassed with adapters during the washing cycle. At the end of the washing cycle it is necessary to replace the valves and filters.

Non è possibile effettuare il lavaggio di compressori, valvole di espansione/di espansione ad orificio, filtri essiccatori o accumulatori, che dovranno pertanto essere bypassati con adattatori durante il ciclo di lavaggio. Al termine del ciclo di lavaggio è necessario sostituire le valvole e i filtri.

pressure reading using manometers lettura pressioni mediante manometri

READING and knowing how to **INTERPRET** the pressures is an important tool for carrying out a quick and effective diagnosis of the A/C system!

PREVENTIVE TEST

To carry out this analysis it is necessary proceed with a preventive check of the operation of the system, measuring its static pressure, i.e. with the engine and A/C system turned off.

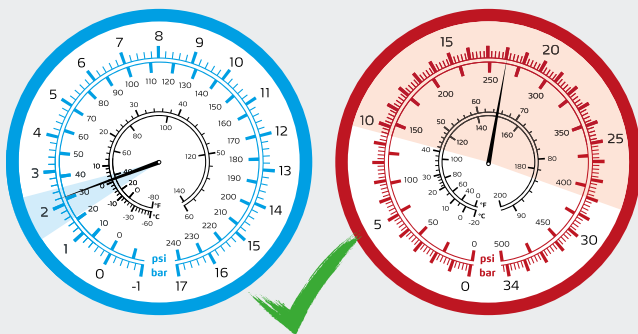
NOTE: at 20°C the static pressure is approximately 5 bar. If the result is lower than 5 bars means that the system's charge level is too low and therefore it is necessary to proceed directly to the leak search. A system, even in good operative conditions, loses up to 50 grams of refrigerant per year.

PRESSURE READING

Once the operation of the system has been verified, we proceed by:

- **STARTING THE ENGINE**
 1. first at minimum
 2. then at a constant 1,500/2,000 rpm
- **TURNING ON THE AIR CONDITIONING**
 - at minimum temperature
 - at 70% ventilation

If the high and low pressure readings are within the pressures shown in the picture below, then the system is functioning properly.



However, if the values are out of the range, a further evaluation on a case-by-case basis is needed to identify the causes and possible actions to be taken.

LEGGERE e saper **INTERPRETARE** le pressioni è un importante strumento per effettuare una diagnosi rapida ed efficace dell'impianto A/C!

TEST PREVENTIVO

Per eseguire questa analisi è necessario fare una verifica preventiva dell'operatività dell'impianto, misurandone la pressione statica, cioè a motore e impianto A/C spenti.

NB: a 20°C la pressione statica è di circa 5 bar. Se il dato misurato fosse più basso significherebbe un livello di carica dell'impianto troppo basso e quindi è necessario procedere direttamente alla ricerca perdite. Un impianto, anche in buone condizioni, perde fino a 50 grammi di refrigerante l'anno.

LETTURA PRESSIONI

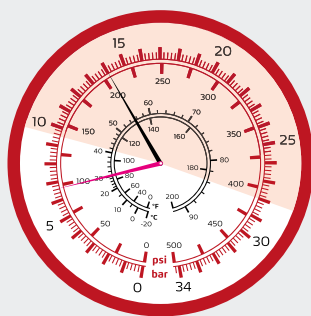
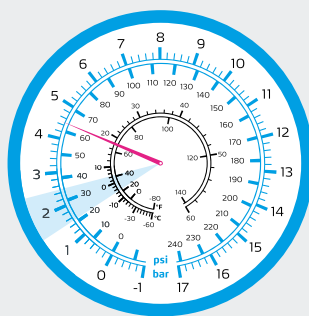
Verificata l'operatività del sistema, si procede:

- **all'AVVIAMENTO DEL MOTORE**
 1. prima al minimo
 2. poi a 1.500/2.000 giri/min costanti
- **all'ACCENSIONE DELL'ARIA CONDIZIONATA**
 - al minimo della temperatura
 - al 70% della ventilazione

Se la lettura delle pressioni di alta e bassa pressione rientra nella tabella sotto, il sistema funziona correttamente.

AMBIENT T T AMBIENTE (°C)	VARIABLE DISPLACEMENT COMPRESSOR COMPRESSORE A SPOSTAMENTO VARIABILE			
	LP /BP (bar)		HP /AP (bar)	
	min	max	min	max
15.5	1.5	2.3	9.5	13.0
21.0	1.5	2.3	12.5	17.5
26.5	1.5	2.3	14.0	20.5
32.0	1.5	2.5	16.0	24.0
38.8	1.5	2.5	18.5	25.5
43.0	1.5	2.5	22.0	28.0

Se i valori invece non rientrano nelle specifiche, è necessario valutare caso per caso per identificare le cause e le possibili azioni da intraprendere.



CASE 1

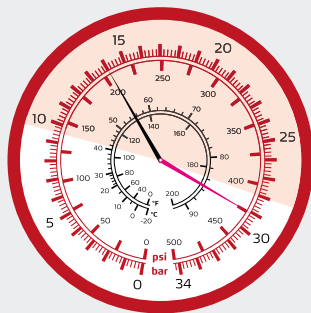
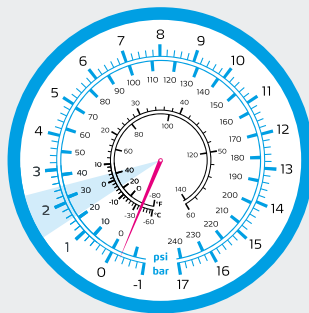
LP: too high
HP: normal or too low

1. **Expansion valve stuck in open position**
 - perform valve diagnosis
 - check that the system is clean
2. **Compressor malfunction or damage**
 - replace (if damaged) and wash the system

CASO 1

BP: troppo elevata
AP: normale o troppo bassa

1. **Valvola di espansione bloccata in posizione aperta**
 - effettuare diagnosi della valvola
 - verificare che l'impianto sia pulito
2. **Malfunzionamento o danneggiamento del compressore**
 - sostituire (se danneggiato) ed effettuare il lavaggio dell'impianto



CASE 2

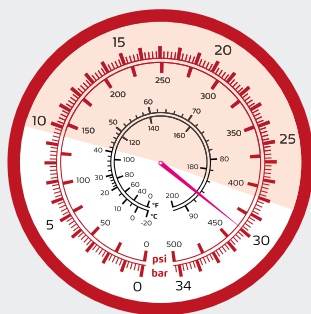
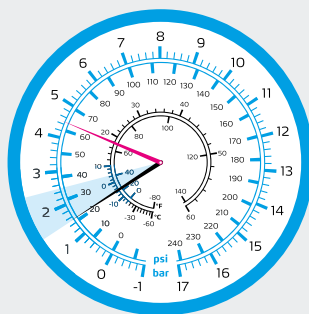
LP: too low
HP: normal or too high

1. **Stuck compressor suction valve - not allowing adequate refrigerant flow**
 - perform valve diagnosis
 - check that the system is clean
2. **Clogged or saturated dryer filter**
 - the system charge could be in excess
 - humidity present due to inadequate vacuum

CASO 2

BP: troppo bassa
AP: normale o troppo alta

1. **Valvola di aspirazione del compressore bloccata: non consente il flusso di refrigerante adeguato**
 - effettuare diagnosi della valvola
 - verificare che l'impianto sia pulito
2. **Filtro essiccatore intasato o saturato**
 - la carica impianto potrebbe essere in eccesso
 - presente umidità per vuoto non adeguato



CASE 3

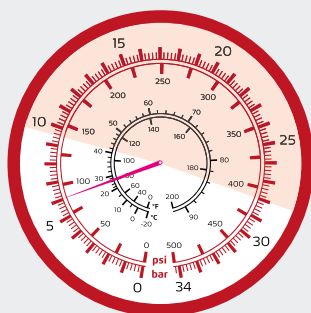
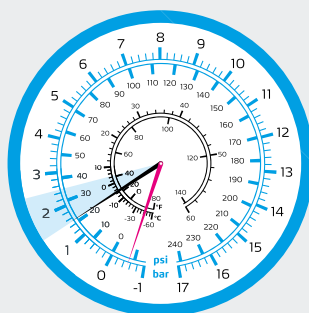
LP: normal or too high
HP: too high

- SYSTEM OVERLOAD**
1. **High pressure side clogged**
 - check that the system is clean
 - carry out external cleaning of the condenser to ensure optimal heat exchange
 2. **External temperature + 40°C**
 - the system charge could be in excess
 - wash the system

CASO 3

BP: normale o troppo elevata
AP: troppo elevata

- SOVRACCARICO IMPIANTO**
1. **Lato alta pressione intasato**
 - verificare che l'impianto sia pulito
 - eseguire pulizia esterna del condensatore per assicurare uno scambio termico ottimale
 2. **Temperatura esterna + 40°C**
 - la carica impianto potrebbe essere in eccesso
 - effettuare il lavaggio dell'impianto



CASE 4

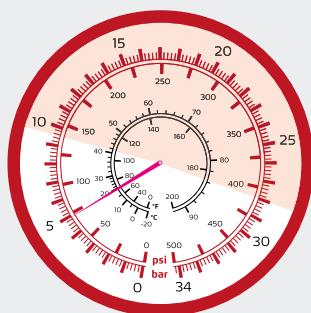
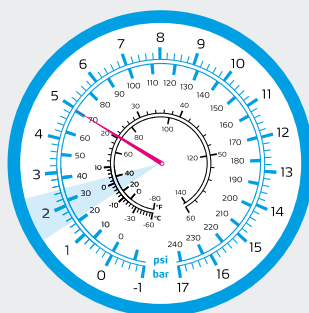
LP: normal or too low
HP: too low

1. **Coolant level too low**
 - diagnose any leaks
2. **Expansion valve clogged or blocked**
 - perform valve diagnosis
 - check that the system is clean

CASO 4

BP: troppo bassa
AP: troppo bassa

1. **Livello refrigerante troppo basso**
 - diagnosticare eventuali perdite
2. **Valvola d'espansione intasata o bloccata**
 - effettuare diagnosi della valvola
 - verificare che l'impianto sia pulito



CASE 5

LP: same value as HP
HP: same value as LP

1. **Compressor failure**
 - determine cause and replace
 - wash the system
2. **Compressor drive belt/pulley malfunction**

CASO 5

BP: stesso valore di AP
AP: stesso valore di BP

1. **Avaria del compressore**
 - determinare causa e sostituire
 - effettuare il lavaggio dell'impianto
2. **Malfunzionamento della cinghia di trasmissione / puleggia del compressore**

lubricants for A/C compressors

lubrificanti per compressori A/C

COMPRESSORS COMPRESSORI	OIL TYPE TIPO di OLIO	GAS TYPE TIPO di GAS	ISO VISCOSITY VISCOSITÀ ISO	FORMAT FORMATO	P/N
MECHANICALS (and SANDEN ELECTRICALS) MECCANICI (ed ELETTRICI SANDEN)	PAG	R-134a	46	250 ml	11.029
				1 L	11.032
				5 L	11.050
			46 + UV	250 ml	11.067
				1 L	11.069
			100	250 ml	11.030
				1 L	11.033
				5 L	11.051
			100 + UV	250 ml	11.086
				1 L	11.087
			150	250 ml	11.031
				1 L	11.034
			150 + UV	250 ml	11.154
		R-1234yf	46	250 ml	11.029YF
				1 L	11.032YF
			46 + UV	250 ml	11.067YF
				1 L	11.069YF
			100	250 ml	11.030YF
				1 L	11.033YF
			100 + UV	250 ml	11.086YF
				1 L	11.087YF
		R-134a R-1234yf R-456a	UNIVERSAL UNIVERSALE	250 ml	11.501
				1 L	11.502
			UNIVERSAL + UV UNIVERSALE + UV	250 ml	11.501UV
				1 L	11.502UV
ELECTRICALS (NO SANDEN) ELETTRICI (NO SANDEN)	POE	R-134a	80	250 ml	11.084
		R-1234yf	80	250 ml	11.084YF
		R-134a/R-1234yf	UNIVERSAL UNIVERSALE	250 ml	11.508

leak stop for A/C systems

turafalle per impianti A/C

COMPRESSORS COMPRESSORI	OIL TYPE TIPO di OLIO	GAS TYPE TIPO di GAS	CAN BOMBOLETTA	P/N	SYRINGE SIRINGA	P/N
MECHANICALS (and SANDEN ELECTRICALS) MECCANICI (ed ELETTRICI SANDEN)	PAG	R-134a	30 ml	11.226	30 ml	11.014
					30 ml + adapt.	11.014K
			+ UV 40 ml	11.226B	40 ml	11.014B
					40 ml + adapt.	11.014BK
		R-1234yf	30 ml	11.226YF	30 ml	11.014YF
					30 ml + adapt.	11.014YFK
			+ UV 40 ml	11.226YFB	40 ml	11.014YFB
					40 ml + adapt.	11.014YFBK
		UNIVERSAL UNIVERSALE R-134a R-1234yf R-456a			6 ml	11.128
					6 ml + R-134a adapt.	11.128/1
					6 ml + R-1234yf adapt.	11.128/2
					6 ml + 2 adapt.	11.128/3
					8 ml	11.128B
					+ UV 8 ml + R-134a adapt.	11.128B/1
					+ UV 8 ml + R-1234yf adapt.	11.128B/2
					+ UV 8 ml + 2 adapt.	11.128B/3
ELECTRICALS (NO SANDEN) ELETTRICI (NO SANDEN)	POE	UNIVERSAL UNIVERSALE R-134a R-1234uf			30 ml	11.126H
					30 ml + 2 adapt.	11.126HK

UV additives for A/C systems

additivi UV per impianti A/C

COMPRESSORS COMPRESSORI	OIL TYPE TIPO di OLIO	GAS TYPE TIPO di GAS	CAN BOMBOLETTA	P/N	SYRINGE SIRINGA	P/N
MECHANICALS (and SANDEN ELECTRICALS) MECCANICI (ed ELETTRICI SANDEN)	PAG	R-134a	250 ml	11.005	12x 7.5 ml	11.801/1B
			350 ml	11.060		
			1 L	11.004	12x 7.5 ml + adapt.	11.801/1BK
		R-1234yf	250 ml	11.005YF	12x 7.5 ml	11.801/1YF
			350 ml	11.060YF	12x 7.5 ml + adapt.	11.801/1YFK
		UNIVERSAL UNIVERSALE R-134a / R-1234yf / R-456a	250 ml	11.003	12x 7.5 ml	11.824
			1 L	11.008	12x 7.5 ml + 2 adapt.	11.824K
ELECTRICALS (NO SANDEN) ELETTRICI (NO SANDEN)	POE	UNIVERSAL UNIVERSALE R-134a R-1234yf	250 ml	11.005H	12x 7.5 ml	11.801/1H
					12x 7.5 ml + 2 adapt.	11.826K

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P/N	PAG	P/N	PAG	P/N	PAG	P/N	PAG
11.003	016	11.070.600	052	12.010	020	13.079/1	048
11.004	016	11.084	035	12.011	020	13.080	065
11.005	016	11.084YF	035	12.014	019	13.080G	065
11.005H	017	11.086	033	12.021	092	13.080YF	064
11.005YF	016	11.086YF	034	12.022	092	13.081	065
11.008	016	11.087	033	12.026	092	13.081G	065
11.014	030	11.087YF	034	12.028	092	13.081YF	064
11.014B	030	11.124	090	12.031	088	13.084	048
11.014BK	030	11.124K	090	12.033/3	023	13.084YFK	048
11.014K	030	11.124YFK	090	12.036	023	13.086	073
11.014YF	030	11.126H	030	12.036/1	023	13.089	020
11.014YFB	030	11.126HK	030	12.036/3	023	13.095	065
11.014YFBK	030	11.128	031	12.036C02	037	13.095YF	064
11.014YFK	030	11.128/1	031	12.039	023	13.097	020
11.020	043	11.128/2	031	12.039/1	023	13.099	053
11.020.500	043	11.128/3	031	12.041	037	13.102B	061
11.020LI	043	11.128B	031	12.604	089	13.102BYF	060
11.020M	043	11.128B/1	031	12.612	089	13.102R	061
11.020ME	043	11.128B/2	031	12.613	089	13.102RYF	060
11.020P	043	11.128B/3	031	12.614	089	13.103B	061
11.020S	042	11.129	091	12.621V	088	13.103BYF	060
11.020V	043	11.129K	091	13.010	062	13.103R	061
11.021	020	11.129YFK	091	13.010LC	063	13.103RYF	060
11.022	047	11.192	020	13.020VF	064	13.111B	061
11.022.500	047	11.214	046	13.023HYF	064	13.111BYF	060
11.023	043	11.214LI	046	13.023LYF	064	13.111R	061
11.023/1	043	11.214M	046	13.031	017	13.111RYF	060
11.023/1S	042	11.214ME	046	13.031VF	017	13.112B	061
11.023/2S	042	11.214P	046	13.032	086	13.112R	061
11.024	045	11.214V	046	13.032K	087	13.124Y	053
11.024/1	044	11.226	029	13.032YFK	087	13.126B	061
11.024/1LI	044	11.226B	029	13.033	086	13.126R	061
11.024/1M	044	11.226YF	029	13.033K	087	13.134BT	061
11.024/1ME	044	11.226YFB	029	13.033YFK	087	13.134RT	061
11.024/1P	044	11.227F	052	13.034	065	13.143BNT	061
11.024/1V	044	11.228T	022	13.035	065	13.143RNT	061
11.024LI	045	11.310	097	13.036	065	13.149B	061
11.024M	045	11.316	097	13.037	065	13.149R	061
11.024P	045	11.320	097	13.038	065	13.166B	061
11.024V	045	11.404	039	13.038D	065	13.166R	061
11.025	022	11.406	039	13.038YF	064	13.170B	061
11.025T	022	11.501	035	13.039	065	13.170R	061
11.028	046	11.501UV	035	13.039YF	064	13.189B	061
11.028V	046	11.502	035	13.041	017	13.189R	061
11.029	033	11.502UV	035	13.041YF	017	13.194B	061
11.029YF	034	11.508	035	13.045	066	13.194R	061
11.030	033	11.612	041	13.045YF	066	13.200	028
11.030YF	034	11.613	041	13.046	066	13.200/2	028
11.031	033	11.627	040	13.046YF	066	13.201	053
11.032	033	11.629	040	13.047H	065	13.203.20B	027
11.032YF	034	11.634	041	13.047L	065	13.209	028
11.033	033	11.635	041	13.050	094	13.209/2	028
11.033YF	034	11.636	040	13.051	079	13.210/1	024
11.034	033	11.638	040	13.052	094	13.210/1D	024
11.035	052	11.642	041	13.053	079	13.210/1F	024
11.035F	052	11.713	052	13.054	079	13.210/1GB	024
11.036	052	11.713K	052	13.058HYF	064	13.220	027
11.036F	052	11.714	052	13.058LYF	064	13.220/1	027
11.037	094	11.728	045	13.060	055	13.220/2	027
11.038SP	094	11.729	045	13.063	075	13.220D	027
11.050	033	11.734	047	13.064	075	13.220F	027
11.051	033	11.800/60P	015	13.065	075	13.220GB	027
11.059/5	033	11.800/60YF	015	13.066	075	13.224B	027
11.060	016	11.801/1H	015	13.067	075	13.230	024
11.060YF	016	11.824	015	13.068	075	13.230D	024
11.067	033	11.824K	015	13.069	075	13.230F	024
11.067YF	034	11.826K	015	13.070	075	13.230GB	024
11.069	033	12.003	018	13.071	075	13.242	025
11.069/5	033	12.004	018	13.072	075	13.259	036
11.069YF	034	12.007	019	13.074	054	13.260	038
11.070	052	12.009	019	13.075	094	13.260D	038

index / indice

P/N	PAG	P/N	PAG	P/N	PAG	P/N	PAG
13.260F	038	15.059	058	88.075/10	072	88.272/5	068
13.260UK	038	20.2003	035	88.077/10	073	88.273/5	068
13.262	066	20.3003	035	88.080/10	076	88.276/10	078
13.263	066	20.4003	035	88.081/10	076	88.277	071
13.269VF	066	21.1003	034	88.082/10	076	88.277H	071
13.270VF	066	55.008	021	88.083/10	076	88.278	071
13.302M	037	55.043	021	88.084/10	076	88.278H	071
13.302W	037	77.003	096	88.085/10	076	88.289	071
13.409	039	77.004	096	88.086/10	076	88.289H	071
13.410	037	77.007	096	88.087/10	076	88.291/10	078
13.411	039	77.008	096	88.088/10	076	88.292/10	078
13.413H	038	88.001/10	072	88.089/10	076	88.293/10	078
13.413L	038	88.002/10	072	88.091/10	076	88.296/10	078
13.500B	054	88.003/10	072	88.093/5	069	88.298/10	078
13.506	048	88.004/10	072	88.094/5	069	88.299/10	078
13.510/1	055	88.005/10	074	88.095/5	069	88.312	082
13.510/2	055	88.006/10	074	88.096/5	069	88.313	082
13.511	055	88.007/10	074	88.097/5	069	88.314	083
13.522/1	026	88.008/5	069	88.098/5	069	88.315	083
13.522/1D	026	88.009/5	069	88.099/5	069	88.316	083
13.522/1F	026	88.010/5	068	88.100/5	069	88.322	081
13.522/1GB	026	88.010VF/5	068	88.101/5	069	88.400	079
13.526	051	88.011/5	068	88.102/5	069	88.401	079
13.527	054	88.011VF/5	068	88.110/10	072	88.402	053
13.529	050	88.012/10	078	88.113/10	072	88.405	079
13.530	055	88.013/10	073	88.118/10	073	88.412	070
13.532	051	88.014/10	072	88.122/10	076	88.650/5	070
13.623	086	88.015/10	072	88.123/5	068	88.652/5	070
13.624	086	88.016/10	072	88.123VF/5	068	88.700	080
13.703	093	88.017/10	073	88.125/5	068	88.800	059
13.703L	093	88.018/10	073	88.125VF/5	068	88.801	059
13.703M	093	88.018G/10	073	88.126/5	068	88.802	059
13.703P	093	88.019/10	072	88.128/5	068	88.803	059
13.705	049	88.020/10	072	88.135/5	070	88.804	059
13.717	048	88.021/10	072	88.139/10	072	88.805	059
13.752	093	88.022/10	078	88.142/5	070	88.806	059
13.752/1	093	88.023/10	078	88.152/10	073	88.809	059
13.1033B	061	88.024/10	072	88.153/10	073	88.810	059
13.1033R	061	88.026/10	074	88.155/10	073	88.811	059
13.1040B	061	88.027/10	074	88.161/10	074	88.900	084
13.1040R	061	88.028/10	074	88.162/10	072	88.901	084
13.1054B	061	88.029/10	074	88.180	080	88.902	085
13.1054R	061	88.030/10	074	88.183/5	071	88.903	085
13.1063B	061	88.031B/5	074	88.186	027	88.904	085
13.1063R	061	88.032B/5	074	88.186D	027	88.904/1	081
13.1064B	061	88.033B/5	074	88.186D/SX	027	Y13.102B	060
13.1064R	061	88.034B/5	074	88.186F	027	Y13.102R	060
13.1081B	061	88.035/10	075	88.186GB	027	Y13.143B	060
13.1081R	061	88.036/10	075	88.188	027	Y13.143R	060
13.1141B	061	88.037/10	075	88.190	080	Y13.184B	060
13.1141R	061	88.038/10	075	88.200	077	Y13.184R	060
13.1144B	061	88.039/10	078	88.205	081	Y13.198B	060
13.1144R	061	88.040/10	078	88.210/5	070	Y13.198R	060
13.1179B	061	88.041/10	078	88.211/5	070	Y13.1010BYF	060
13.1179R	061	88.042/5	068	88.212/5	070	Y13.1010RYF	060
13.1238B	061	88.043/5	068	88.214/5	070	Y13.1013BYF	060
13.1238R	061	88.047/10	073	88.216/5	070	Y13.1013RYF	060
13.1239B	061	88.050/10	077	88.217/5	070	Y13.1014B	060
13.1239R	061	88.051/10	077	88.218/5	070	Y13.1014R	060
15.002W	056	88.052/10	077	88.227/5	070	Y13.1026BYF	060
15.004W	056	88.053/10	077	88.230/5	069	Y13.1026RYF	060
15.005	056	88.054/10	077	88.231/5	069	Y13.1037B	060
15.006W	056	88.055/10	077	88.232/5	069	Y13.1037R	060
15.007	057	88.056/10	077	88.233/5	069	Y13.1038B	060
15.010	057	88.057/10	077	88.234/5	069	Y13.1038R	060
15.011	057	88.058/10	077	88.241/10	078	Y13.1242B	060
15.013W	057	88.059/10	077	88.257/10	074	Y13.1242R	060
15.014W	057	88.060/10	073	88.258/10	074	Y13.1251B	060
15.048	058	88.068/10	073	88.259/10	074	Y13.1251R	060
15.050	058	88.072/5	071	88.270/10	078		
15.058	058	88.072T/10	071	88.271/10	078		

UV ADDITIVES for the losses research ADDITIVI UV per la ricerca delle perdite

UV additives are special UV fluorescent contrast liquids specially designed for the **detection of refrigerant gas leaks** in air conditioning systems.

Gli additivi UV sono degli speciali liquidi di contrasto fluorescente UV appositamente progettati per la **ricerca delle perdite di gas refrigerante** negli impianti di aria condizionata.



P/N **11.801/1B**

PAG based

Net content **12x 7,5 ml**



UV



R-134a

12x



P/N **11.801/1BK**

PAG based

Net content **12x 7,5 ml**

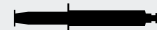


UV



R-134a

12x



+adapter:
1x 11.800/60P



P/N **11.801/1YF**

PAG based

Net content **12x 7,5 ml**



UV



R-1234yf

12x



P/N **11.801/1YFK**

PAG based

Net content **12x 7,5 ml**



UV



R-1234yf

12x



+adapter:
1x 11.800/60YF

A/C losses / perdite A/C

i

A/C losses / perdite A/C

lubricants / lubrificanti

R-744 (CO2)

cleaning / pulizia



P/N **11.824**

PAG based

Net content **12x 7,5 ml**

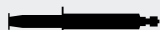


UV



R-134a
R-1234yf

12x



P/N **11.824K**

PAG based

Net content **12x 7,5 ml**

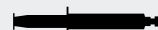


UV



R-134a
R-1234yf

12x



+adapters:
1x 11.800/60P
1x 11.800/60YF



P/N **11.801/1H**

POE based

Net content **12x 7,5 ml**



UV



ELECTRIC



R-134a
R-1234yf

12x



P/N **11.826K**

POE based

Net content **12x 7,5 ml**



UV



ELECTRIC



R-134a
R-1234yf

12x



+adapters:
1x 11.800/60P
1x 11.800/60YF

A



B

A. R-134a

B. Chek valve / valvola di non-ritorno

P/N **11.800/60P**



R-134a

Syringe
ADAPTERS

ADATTATORI
per siringa

A



B

A. R-1234yf

B. Chek valve / valvola di non-ritorno

P/N **11.800/60YF**



R-1234yf

P/N **11.005**

PAG based

Net content **250 ml**

x12 pcs - 30x24x18cm

P/N **11.060**

PAG based

Net content **350 ml**

x15 pcs - 33x28x25cm

P/N **11.004**

PAG based

Net content **1 liter**

x6 pcs - 34x28x20cm



UV



R-134a

P/N **11.005YF**

PAG based

Net content **250 ml**

x12 pcs - 30x24x18cm

P/N **11.060YF**

PAG based

Net content **350 ml**

x15 pcs - 33x28x25cm



UV



R-1234yf

P/N **11.003**

PAG based

Net content **250 ml**

x12 pcs - 30x24x18cm

P/N **11.008**

PAG based

Net content **1 liter**

x6 pcs - 34x28x20cm



UV



R-134a

R-1234yf



P/N **11.005H**

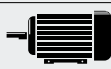
POE based

Net content **250 ml**

x12 pcs - 34x24x18cm



UV



ELECTRIC



R-134a

R-1234yf

PISTON INJECTOR

INIETTORE a PISTONE

Capacity / capacità **2x 7,5 ml**

A. F1/4" SAE (7/16-20UNF-2B)

B. M1/4" SAE (7/16-20UNF-2A)

C. LP quick coupler for R-134a
attacco rapido BP per R-134a



R-134a

P/N **13.031**

Capacity / capacità **2x 7,5 ml**

A. M12x1,5

B. F12x1,5

C. LP quick coupler for R-1234yf
attacco rapido BP per R-1234yf



R-1234yf

P/N **13.031YF**

Capacity / capacità **60 ml**

A. 45° F1/4" SAE (7/16-20UNF-2B)

B. M1/4" SAE (7/16-20UNF-2A)

C. LP quick coupler for R-134a
attacco rapido BP per R-134a



R-134a

P/N **13.041**

Capacity / capacità **60 ml**

A. 45° M12x1,5

B. F12x1,5

C. LP quick coupler for R-1234yf
attacco rapido BP per R-1234yf



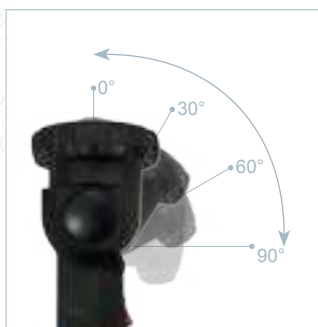
R-1234yf

P/N **13.041YF**

UV LAMPS LAMPADA UV

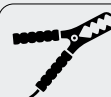


P/N **12.003**
UV LAMP
LAMPADA UV



UV

60W



12 V



P/N 12.011

INCLUDED



UV

100W



12 V



P/N 12.011

INCLUDED



P/N **12.004**
UV LAMP
LAMPADA UV



P/N **12.007**
UV LAMP
LAMPADA UV



UV

HI-LED

1x



110/220V

INCLUDED

154 - 170 μ W/cm²

50W

P/N 12.011



INCLUDED



P/N **12.009**
UV LAMP
LAMPADA UV



UV

12 LED

3x



P/N 12.011



INCLUDED

NEW!



P/N **12.014**
UV LAMP
LAMPADA UV



UV

5W
COB

1x



TOP

5W
COB

FRONT

3W
XPE

P/N 12.011



INCLUDED



UV additive REMOVER PULITORE Additivo UV



P/N **11.192**

READY TO USE

Net content **750 ml**

x12 pcs - 34x25x28cm



P/N **11.021**

Net content **400 ml**

x12 pcs - 27x22x21cm

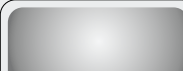


P/N **12.010**

SAFETY GOGGLES OCCHIALI PROTETTIVI



ANTI-SCRATCH



ANTI-FOG

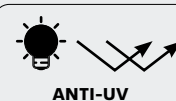
ANSI Z87.1

CE EN 166B



P/N **12.011**

ANTI-UV GOGGLES OCCHIALI ANTI-UV



ANTI-UV



P/N **13.089**

PROTECTIVE GLOVES GUANTI PROTETTIVI

EN 420:2003
(dexterity 5)

EN 388:2003
(mechanical risk)

EN 374-1:2003
EN 374-3:2003
(chemicals and
micro-organism)



P/N **13.097**

PROTECTIVE GLOVES GUANTI PROTETTIVI



EN4202003+A1:20199



EN ISO 374-1:2016



EN ISO 374-2:2016



EN ISO 374-3:2016



UV



R-134a

x1 pc - 31x13x38cm

P/N 55.008

UV LEAK DETECTION KIT with case KIT CERCAFUGHE UV con valigetta

- P/N 12.003 60W UV lamp with 90° swinging head / Lampada UV 60W con testa rotante 90°
- P/N 12.011 Anti-UV goggles / Occhiali anti-UV
- P/N 11.005 250 ml UV additive (PAG based) / Additivo UV (base PAG) 250 ml
- P/N 11.021 UV additive remover spray / Spray pulitore additivo UV



UV


R-134a
R-1234yf

x1 pc - 31x13x38cm

P/N 55.043

UV LEAK DETECTION KIT with case KIT CERCAFUGHE UV con valigetta

- P/N 12.009 Pocket UV lamp with battery / Lampada UV tascabile con batteria
- P/N 11.824K 12x 7,5 ml UV additive (PAG based) and adapters / Additivo UV (base PAG) 12x 7,5 ml e adattatori
- P/N 12.011 Anti-UV goggles / Occhiali anti-UV
- P/N 11.021 UV additive remover spray / Spray pulitore additivo UV

bubble leak detector cercafughe a bolle

POLAR -40

New formulation with **freezing point** below **-40°C!**

Nuova formulazione con
punto di congelamento inferiore ai **-40°C!**



P/N **11.228T**

READY TO USE

Net content **750 ml**

 **x12 pcs** - 34x25x28cm

NEW!



P/N **11.025**

SPRAY

Net content **400 ml**

 **x12 pcs** - 27x22x21cm



P/N **11.025T**

READY TO USE

Net content **750 ml**

 **x12 pcs** - 34x25x28cm



The electronic leak detectors allow, quickly and effectively, to identify the micro-leaks present in the A/C system where a particular refrigerant gas or hydrogen has been inserted.

I cercafughe elettronici permettono, in maniera rapida ed efficace, di individuare le micro-fughe presenti nell'impianto A/C dove è stato inserito un particolare gas refrigerante o Idrogeno.



P/N **12.039**

UNIVERSALE leak detector
Cercafughe **UNIVERSALE**



R-134a

R-1234yf

R-456a

etc...



P/N **12.033/3**

Tester

for / per 12.039



P/N **12.039/1**

Sensor / Sensore

for / per 12.039



P/N **12.036**

HYDROGEN leak detector
Cercafughe **IDROGENO**



P/N **12.036/1**

Sensor / Sensore

for / per 12.036



P/N **12.036/3**

Protection / Protezione

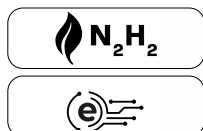
for / per 12.036, 12.039

LEAK DETECTION kit kit CERCAFUGHE

The most effective and efficient solution for detecting possible leaks in automotive AC systems.

Thanks to the use of the Nitrogen / Hydrogen mixture and the appropriate electronic leak detector, it is possible to find the micro-leaks of gas present in the system with ease and precision.

La soluzione più efficace ed efficiente per la detenzione di possibili fughe negli impianti AC automotive. Grazie all'impiego della miscela Azoto/Idrogeno e dell'apposito cercafughe elettronico è possibile trovare con facilità e precisione le micro-fughe di gas presenti nell'impianto.



x1 pc - 53x14x42cm

P/N **13.230** *

P/N **13.230D** *

P/N **13.230F** *

P/N **13.230GB** *

with 2.2-liter cylinder
/ con bombola 2.2 litri

P/N **13.210/1** *

P/N **13.210/1D** *

P/N **13.210/1F** *

P/N **13.210/1GB** *

with 1-liter cylinder
/ con bombola 1 litro

NITROGEN/HYDROGEN LEAK DETECTION KIT KIT CERCAFUGHE AZOTO/IDROGENO

P/N	13.209/2	2.2-liter 95%-Nitrogen 5%-Hydrogen cylinder / Bombola 95%-Azoto 5%-Idrogeno 2.2 litri
P/N	88.186	1 liter cylinder reduction / Riduttore bombola 1 litro
P/N	88.217	Adapter / Adattatore M1/4" SAE (7/16-20UNF-2A) x M12x1,5
P/N	13.124Y	1,5 mt yellow hose / Tubo giallo 1,5 mt - 2x F1/4" SAE (7/16-20UNF-2B)
P/N	13.220	* Pressure regulator for 5-liter cylinder and more / Regolatore di pressione per bombole 5 litri e più
P/N	12.036	Electronic leak detector for Hydrogen / Cercafughe elettronico per Idrogeno
P/N	13.512/1	Manifold gauge with hose / Manometro con tubo Gas: R-134a, R-1234yf, R-404A, R-407C, R-422D, R-507, R-22, R-32, R-410A
P/N	13.034	HP quick coupler for R-134a x M1/4"SAE / Attacco rapido AP per R-134a x M1/4" SAE
P/N	13.080YF	HP quick coupler for R-1234yf x M12x1,5 / Attacco rapido AP per R-1234yf x M12x1,5

The P/N changes depending on where the kit is used / Il P/N cambia in base a dove viene utilizzato il kit:

13.230 / 13.220 in Italy and Slovenia / in Italia e Slovenia.

13.230D / 13.220D in Germany, Poland, Holland and Romania / in Germania, Polonia, Olanda e Romania.

13.230F / 13.220F in France, Belgium, Portugal, Spain, Greece and Israel / in Francia, Belgio, Portogallo, Spagna, Grecia e Israele.

13.230GB / 13.220GB in the United Kingdom, Denmark and Ireland / in Regno Unito, Danimarca e Irlanda.

NOTE:

*



x1 pc - 53x14x42cm

P/N **13.242**

BASIC PLUS

N2H2 LEAK DETECTION KIT / KIT CERCAFUGHE N2H2

P/N	13.209	1-liter 95%o-Nitrogen 5%o-Hydrogen cylinder / Bombola 95%o-Azoto 5%o-Idrogeno 1 litro
P/N	88.217	Adapter / Adattatore M1/4" SAE (7/16-20UNF-2A) x M12x1,5
P/N	13.124Y	1,5 mt yellow hose / Tubo giallo 1,5 mt - 2x F1/4" SAE (7/16-20UNF-2B)
P/N	13.203.20B	20 bar pressure regulator for 1-liter cylinder / Regolatore di pressione 20 bar per bombole 1 litro
P/N	12.036	Electronic leak detector for Hydrogen / Cercafughe elettronico per Idrogeno
P/N	13.512/1	Manifold gauge with hose / Manometro con tubo Gas: R-134a, R-1234yf, R-404A, R-407C, R-422D, R-507, R-22, R-32, R-410A
P/N	13.034	HP quick coupler for R-134a x M1/4"SAE / Attacco rapido AP per R-134a x M1/4" SAE
P/N	13.080YF	HP quick coupler for R-1234yf x M12x1,5 / Attacco rapido AP per R-1234yf x M12x1,5

Spare parts / Parti di ricambio



P/N **12.036**

Hydrogen leak detector
Cercafughe per **Idrogeno**



P/N **13.209**

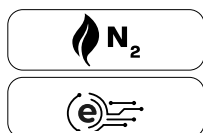
Non-Refillable / Non-Ricaricabile

Net content **1 liter**
x6 pcs - 16x23x34cm



P/N **13.209/2**

Net content **2 liters**
x4 pcs - 24x24x29cm



x1 pc - 53x13x42cm

P/N **13.522/1** *

P/N **13.522/1D** *

P/N **13.522/1F** *

P/N **13.522/1GB** *

NITROGEN PRESSURIZATION KIT KIT PRESSURIZZAZIONE AZOTO

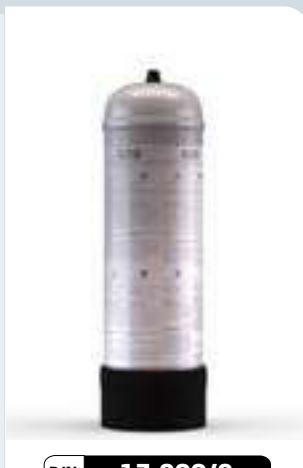
P/N	13.200	1-liter 100%-Nitrogen cylinder / Bombola 100%-Azoto 1 litro
P/N	88.186	1 liter cylinder reduction / Riduttore bombola 1 litro
P/N	88.217	Adapter / Adattatore M1/4" SAE (7/16-20UNF-2A) x M12x1,5
P/N	13.124Y	1,5 mt yellow hose / Tubo giallo 1,5 mt - 2x F1/4" SAE (7/16-20UNF-2B)
P/N	13.220	* Pressure regulator for 5-liter cylinder and more / Regolatore di pressione per bombole 5 litri e più
P/N	13.512/1	Manifold gauge with hose / Manometro con tubo Gas: R-134a, R-1234yf, R-404A, R-407C, R-422D, R-507, R-22, R-32, R-410A
P/N	13.034	HP quick coupler for R-134a x M1/4"SAE / Attacco rapido AP per R-134a x M1/4" SAE
P/N	13.080YF	HP quick coupler for R-1234yf x M12x1,5 / Attacco rapido AP per R-1234yf x M12x1,5

*** NOTE:** The P/N changes depending on where the kit is used / Il P/N cambia in base a dove viene utilizzato il kit:
13.230 / 13.220 in Italy and Slovenia / in Italia e Slovenia.
13.230D / 13.220D in Germany, Poland, Holland and Romania / in Germania, Polonia, Olanda e Romania.
13.230F / 13.220F in France, Belgium, Portugal, Spain, Greece and Israel / in Francia, Belgio, Portogallo, Spagna, Grecia e Israele.
13.230GB / 13.220GB in the United Kingdom, Denmark and Ireland / in Regno Unito, Danimarca e Irlanda.

Spare parts / Parti di ricambio



P/N **13.200**



P/N **13.200/2**



Non-Refillable / Non-Ricaricabile

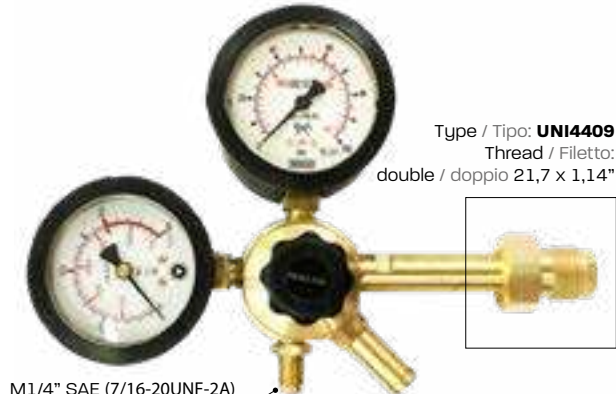
Net content **1 liter**

x6 pcs - 16x23x34cm

Net content **2 liters**

x4 pcs - 24x24x29cm

italian version / versione italiana



Type / Tipo: **UNI4409**
Thread / Filetto:
double / doppio 21,7 x 1,14"

M1/4" SAE (7/16-20UNF-2A)

P/N **13.220**
PRESSURE REGULATOR / REGOLATORE di PRESSIONE

for 5 liter cylinder and more / per bombole da 5 litri e più

Standard / Normativa: **EN ISO 2503**

german version / versione tedesca



Type / Tipo: **DIN477-10**
Thread / Filetto:
24,32 x 1,14"

P/N **13.220D**

french version / versione francese



Type / Tipo: **NF E29-650/C**
Thread / Filetto:
21,7 x 1,814

P/N **13.220F**

english version / versione inglese



Type / Tipo: **BS341-3**
Thread / Filetto:
5/8 x 1"

P/N **13.220GB**

belgian version / versione belga

NEW!


Type / Tipo: **LU 1**
Thread / Filetto:
W21,8x1/14"LH

M1/4" SAE (7/16-20UNF-2A)

P/N **13.224B**
PRESSURE REGULATOR / REGOLATORE di PRESSIONE

for 5 liter cylinder and more / per bombole da 5 litri e più

Standard / Normativa: **EN ISO 2503**

Spare parts / Parti di ricambio


P/N **13.220/1**
PRESSURE GAUGE / MANOMETRO

ø 63 mm - ISO 5171 - cl. 2.5

0 ~ 400 bar


P/N **13.220/2**

0 ~ 100 bar


P/N **13.203.20B**
PRESSURE REGULATOR / REGOLATORE di PRESSIONE

for 1 liter cylinder

0 ~ 20 bar



13.220 → 1 liter cylinder

P/N **88.186**


13.220D → 1 liter cylinder

P/N **88.186D**


13.220D → 10 liter cylinder

P/N **88.188**


13.220F → 1 liter cylinder

P/N **88.186F**


13.220GB → 1 liter cylinder

P/N **88.186GB**


Pressure regulator for 10 liter cylinder → 1 liter cylinder

P/N **88.186D/SX**

compressed gas cylinders bombole di gas compresso



100%-Nitrogen cylinders Bombole 100%-Azoto



P/N **13.200**



P/N **13.200/2**

Non-Refillable / Non-Ricaricabile

Net content **1 liter**

x6 pcs - 16x23x34cm

Net content **2 liters**

x4 pcs - 24x24x29cm



P/N **13.209**



P/N **13.209/2**



95%-Nitrogen 5%-Hydrogen cylinders Bombole 95%-Azoto 5%-Idrogeno

Non-Refillable / Non-Ricaricabile

Net content **1 liter**

x6 pcs - 16x23x34cm

Net content **2 liters**

x4 pcs - 24x24x29cm

sealants turafalle

Product specially formulated for rapid repair of micro-leaks in automotive A/C systems. The product does not react to oxygen and humidity. It also can be used for preventive actions.
Prodotto appositamente formulato per una rapida riparazione delle micro-perdite negli impianti A/C automotive. Il prodotto non reagisce all'ossigeno e all'umidità. Può anche essere usato per azioni preventive.



LEAK STOP
in can

TURAFALLE
in bomboletta

PAG based

x12 pcs - 30x24x18cm

P/N **11.226**



R-134a

Net content
30 ml

P/N **11.226B**



R-134a



UV

Net content
40 ml



PAG based

x12 pcs - 30x24x18cm

P/N **11.226YF**



R-1234yf

Net content
30 ml

P/N **11.226YFB**



R-1234yf



UV

Net content
40 ml

LEAK STOP
in syringe

TURAFALLE
in siringa



LEAK STOP / TURAFALLE

x10 pcs - 27x22x21cm



LEAK STOP / TURAFALLE

x10 pcs - 27x22x21cm



LEAK STOP / TURAFALLE

x10 pcs - 27x22x21cm

P/N 11.014



R-134a

Net content
30 ml

P/N 11.014B



R-134a

Net content
40 ml



UV

P/N 11.014K



R-134a

Net content
30 ml

+adapters:
1x 11.800/60P

P/N 11.014BK



R-134a

Net content
40 ml

+adapters:
1x 11.800/60P



UV

P/N 11.014YF



R-1234yf

Net content
30 ml

P/N 11.014YFB



R-1234yf

Net content
40 ml



UV

P/N 11.014YFK



R-1234yf

Net content
30 ml

+adapters:
1x 11.800/60YF

P/N 11.014YFBK



R-1234yf

Net content
40 ml

+adapters:
1x 11.800/60YF



UV

P/N 11.126H



**R-134a
R-1234yf**



ELECTRIC

Net content
30 ml

P/N 11.126HK



**R-134a
R-1234yf**



ELECTRIC

Net content
30 ml

+adapters:
**1x 11.800/60P
1x 11.800/60YF**

Concentrated LEAK STOP in syringe

TURAFALLE concentrato in siringa



LEAK STOP / TURAFALLE

x10 pcs - 27x22x21cm



LEAK STOP / TURAFALLE

x10 pcs - 27x22x21cm

P/N 11.128



**R-134a
R-1234yf**

Net content
6 ml
CONCENTRATED

P/N 11.128/2



**R-134a
R-1234yf**

Net content
6 ml
CONCENTRATED

+adapters:
1x 11.800/60YF

P/N 11.128/1



**R-134a
R-1234yf**

Net content
6 ml
CONCENTRATED

+adapters:
1x 11.800/60P

P/N 11.128/3



**R-134a
R-1234yf**

Net content
6 ml
CONCENTRATED

+adapters:
**1x 11.800/60P
1x 11.800/60YF**

P/N 11.128B



**R-134a
R-1234yf**

Net content
8 ml
CONCENTRATED



UV

P/N 11.128B/1



**R-134a
R-1234yf**

Net content
8 ml
CONCENTRATED



UV

+adapters:
1x 11.800/60P

P/N 11.128B/2



**R-134a
R-1234yf**

Net content
8 ml
CONCENTRATED



UV

+adapters:
1x 11.800/60YF

P/N 11.128B/3



**R-134a
R-1234yf**

Net content
8 ml
CONCENTRATED



UV

+adapters:
**1x 11.800/60P
1x 11.800/60YF**

Syringe ADAPTERS

ADATTATORI per siringa



A. R-134a

B. Chek valve / valvola di non-ritorno

P/N 11.800/60P



R-134a



A. R-1234yf

B. Chek valve / valvola di non-ritorno

P/N 11.800/60YF



R-1234yf

lubricants for compressors

lubrificanti per compressori

Selection of lubricant oils for mechanical and electrical compressors.
Selezione di oli lubrificanti per compressori meccanici ed elettrici.

x12 pcs - 21x16x19cm



P/N 11.029
250 ml

P/N 11.067
250 ml + UV

x12 pcs - 33x28x25cm



P/N 11.032
1 liter

P/N 11.069
1 liter + UV

x2 pcs - 32x28x21cm



P/N 11.050
5 liter

P/N 11.069/5
5 liter + UV

PAG ISO 46
for / per
R-134a

x12 pcs - 21x16x19cm



P/N 11.030
250 ml

P/N 11.086
250 ml + UV

x12 pcs - 33x28x25cm



P/N 11.033
1 liter

P/N 11.087
1 liter + UV

x2 pcs - 32x28x21cm



P/N 11.051
5 liter

P/N 11.059/5
5 liter + UV

PAG ISO 100
for / per
R-134a

x12 pcs - 21x16x19cm



P/N 11.031
250 ml

x12 pcs - 33x28x25cm



P/N 11.034
1 liter

PAG ISO 150
for / per
R-134a

 **x12 pcs - 21x16x19cm****P/N 11.029YF**
250 ml**P/N 11.067YF**
250 ml + UV **x12 pcs - 33x28x25cm****P/N 11.032YF**
1 liter**P/N 11.069YF**
1 liter + UV**PAG ISO 46**
for / per
R-1234yf **x12 pcs - 21x16x19cm****P/N 11.030YF**
250 ml**P/N 11.086YF**
250 ml + UV **x12 pcs - 33x28x25cm****P/N 11.033YF**
1 liter**P/N 11.087YF**
1 liter + UV**PAG ISO 100**
for / per
R-1234yf **x12 pcs - 33x28x25cm****P/N 21.1003**
1 liter**PAO ISO 68**

x12 pcs - 21x16x19cm



P/N 11.501
250 ml

P/N 11.501UV
250 ml + UV

x12 pcs - 33x28x25cm



P/N 11.502
1 liter

P/N 11.502UV
1 liter + UV

PAG

for / per

R-134a/R-1234yf
+ SANDEN

x12 pcs - 21x16x19cm



P/N 11.084
250 ml



R-134a

x12 pcs - 21x16x19cm



P/N 11.084YF
250 ml



R-1234yf

x12 pcs - 21x16x19cm



P/N 11.508
250 ml



R-134a
R-1234yf

POE ISO 80

for / per

ELECTRIC
COMPRESSORS
NO SANDEN



P/N 20.3003
V. ISO 32

Net content **1 liter**

x12 pcs - 33x28x25cm



P/N 20.2003
V. ISO 46

Net content **1 liter**

x12 pcs - 33x28x25cm



P/N 20.4003
V. ISO 68

Net content **1 liter**

x12 pcs - 33x28x25cm

lubricants

for

VACUUM
PUMPS

lubrificanti

per

POMPE da
VUOTO

R-744 system maintenance manutenzione impianti R-744



x1 pc - 31x13x38cm

P/N 13.259

CO2 SERVICE KIT

- 3x**
- | | |
|--------------------|---|
| P/N 13.414 | 4-way manifold for R-744 (CO2) / Gruppo manometrico 4 vie per R-744 (CO2) |
| P/N 13.409 | 1,5 mt black hose - F1/4" SAE (7/16-20UNF-2B) x F1/4" SAE (7/16-20UNF-2B) for R-744 (CO2)
Tubo nero 1,5 mt - F1/4" SAE (7/16-20UNF-2B) x F1/4" SAE (7/16-20UNF-2B) per R-744 (CO2) |
| P/N 13.413H | HP quick coupler for R-744 (CO2) x M1/4" SAE (7/16-20UNF-2A) with tap
Attacco rapido AP per R-744 x M1/4" SAE (7/16-20UNF-2A) con rubinetto |
| P/N 13.413L | LP quick coupler for R-744 (CO2) x M1/4" SAE (7/16-20UNF-2A) with tap
Attacco rapido BP per R-744 x M1/4" SAE (7/16-20UNF-2A) con rubinetto |

The **CO2 SERVICE KIT** was developed with the aim of providing automotive professionals with a simple and economical procedure for the maintenance and refilling of CO2 air conditioning systems and heat pumps.

Il **CO2 SERVICE KIT** è stato sviluppato con l'obiettivo di fornire ai professionisti del settore automobilistico una procedura semplice ed economica per la manutenzione e la ricarica degli impianti di climatizzazione a CO2 e delle pompe di calore.


R-744
(CO2)

100%-R-744 (CO2) cylinders Bombole 100%-R-744 (CO2)


P/N **13.302W**

Net content **420 g.**

P/N **13.302M**

Net content **340 g.**
Non-Refillable / Non-Ricaricabile

for / per **VOLKSWAGEN**

for / per **MERCEDES BENZ**

P/N **12.036CO2**
R-744 (CO2) leak detector
Cercafughe per **R-744 (CO2)**

R-744
(CO2)

P/N **12.041**
Protection / Protezione
for / per 12.036CO2

Standard / Normativa:
EN ISO 5171
 $\varnothing$ 63 mm - 0 ~ 400 bar

Standard
Normativa:
EN ISO 2503

M1/4" SAE (7/16-20UNF-2A)

P/N **13.410**
R-744 (CO2) PRESSURE REGULATOR / REG. di PRESSIONE

for 5 liter cylinder and more / per bombole da 5 litri e più

outlet pressure / pressione in uscita 200 bar



x1 pc - 53x13x42cm

P/N **13.260** *

P/N **13.260D** *

P/N **13.260F** *

P/N **13.260UK** *

UNIVERSAL N2H2 LEAK DETECTION KIT KIT CERCAFUGHE N2H2 UNIVERSALE

P/N	13.209/2	2.2-liter 95%o-Nitrogen, 5%o-Hydrogen cylinder / Bombola 95%o-Azoto, 5%o-Idrogeno 2.2 litri
P/N	88.186	1 liter cylinder reduction / Riduttore bombola 1 litro
P/N	88.217	Adapter / Adattatore M1/4" SAE (7/16-20UNF-2A) x M12x1,5
P/N	13.124Y	1,5 mt yellow hose / Tubo giallo 1,5 mt - 2x F1/4" SAE (7/16-20UNF-2B)
P/N	13.220	* Pressure regulator for 5-liter cylinder and more / Regolatore di pressione per bombole 5 litri e più
P/N	13.512/1	Manifold gauge with hose / Manometro con tubo Gas: R-134a, R-1234yf, R-404A, R-407C, R-422D, R-507, R-22, R-32, R-410A
P/N	12.036	Electronic leak detector for Hydrogen / Cercafughe elettronico per Idrogeno
P/N	13.413H	HP quick coupler for R-744 x M1/4"SAE / Attacco rapido AP per R-744 x M1/4" SAE
P/N	13.034	HP quick coupler for R-134a x M1/4"SAE / Attacco rapido AP per R-134a x M1/4" SAE
P/N	13.080YF	HP quick coupler for R-1234yf x M12x1,5 / Attacco rapido AP per R-1234yf x M12x1,5

* NOTE:

The P/N changes depending on where the kit is used / Il P/N cambia in base a dove viene utilizzato il kit:

13.211 / 13.220 in Italy and Slovenia / in Italia e Slovenia.

13.211D / 13.220D in Germany, Poland, Holland and Romania / in Germania, Polonia, Olanda e Romania.

13.211F / 13.220F in France, Belgium, Portugal, Spain, Greece and Israel / in Francia, Belgio, Portogallo, Spagna, Grecia e Israele.

13.211GB / 13.220GB in the United Kingdom, Denmark and Ireland / in Regno Unito, Danimarca e Irlanda.

R-744 (CO2) quick couplers Attacchi rapidi R-744 (co2)

x1pc



P/N **13.413H**

HP / AP

x M1/4" SAE with tap

x1pc



P/N **13.413L**

LP / BP

x M1/4" SAE with tap



2-way manifold
Gruppo manometrico a 2 vie

P/N **13.411**



R-744 (CO2)

analog, oil filled
analogico, glicerina

ø 80 mm

3x M1/4" SAE
(7/16-20UNF-2A)

hoses tubazioni



R-744: 1885PSI (130BAR) W.P. - 10152PSI (700BAR) B.P. - EN/1736/PED



R-744 - F1/4" SAE (7/16-20UNF-2B)

1500 mm ● **13.409**

**PAG
LUBRICANTS**

**LUBRIFICANTI
PAG**



P/N **11.406**

PAG V. ISO 46

Net content **1 liter**

x12 pcs - 33x28x25cm

**PAG based
UV ADDITIVE**

**ADDITIVO UV
base PAG**



P/N **11.404**

PAG based

Net content **250 ml**

x12 pcs - 34x24x18cm

Scoline



A/C BIO DETERGENT

Perfect for evaporators, ducts, filters and rods.
It cleanses, eliminates the odors and leaves a
scent of Citrus and Green tea.

Perfetto per evaporatori, canaline, filtri e bacchette.
Deterge, elimina gli odori e rilascia un profumo di
Citrus e The verde.



P/N **11.627**

READY TO USE

Net content **750 ml**

x12 pcs - 170x430x270cm



NEW!

P/N **11.638**

B.O.V.

Net content **250 ml**

x24 pcs - 170x430x270cm



P/N **11.629**

READY TO USE

Net content **750 ml**

x12 pcs - 170x430x270cm



NEW!

P/N **11.636**

B.O.V.

Net content **250 ml**

x24 pcs - 170x430x270cm

ZERO ODOR

Perfect for neutralizing bad smells and cleansing
all areas of the car.

Perfetto per neutralizzare i cattivi odori ed igieniz-
zare tutti gli ambienti dell'automobile.



NEW!

P/N **11.642**

MIX B.O.V. AUTO

6x 11.638, 11.635, 11.634, 11.636

x24 pcs - 170x430x270cm



coline

MR.LEATHER

Perfect for cleaning seats, headrests, side interiors, steering wheels and all the leather upholstery of the car.
Leaves a scent of flowers of Iris.

Perfetto per la pulizia di sedili, poggiatesta, paratie laterali, volanti e tutti i rivestimenti in pelle dell'auto.
Rilascia un dolce e fresco profumo di Iris.



P/N **11.613**

READY TO USE

Net content **750 ml**

x12 pcs - 170x430x270cm



NEW!

P/N **11.634**

B.O.V.

Net content **250 ml**

x24 pcs - 170x430x270cm



P/N **11.612**

READY TO USE

Net content **750 ml**

x12 pcs - 170x430x270cm



P/N **11.635**

B.O.V.

Net content **250 ml**

x24 pcs - 170x430x270cm

NEW!

BEST FABRIC

Perfect for thoroughly cleansing any type of upholstery fabric passenger compartment (Mats, seats, parcel shelves, fabric hoods, etc.).
Leaves a scent of flowers of Iris.

Perfetto per detergere e igienizzare a fondo ogni tipo di tessuto di rivestimento dell'abitacolo (tappetini, sedili, cappelliere, capote in tessuto ecc.).
Rilascia un dolce e fresco profumo di Iris.

cleaning of evaporator and ducts igienizzazione evaporatori e condotti

**P/N 11.023/1S****FOAM / SCHIUMOSO**Net content **100 ml****x12 pcs** - 15x17x17cm**P/N 11.023/2S****FOAM / SCHIUMOSO**Net content **200 ml****x12 pcs** - 22x17x18cm**P/N 11.020S****FOAM / SCHIUMOSO**Net content **400 ml****x12 pcs** - 27x22x21cm

400 ml SERIES
in 6 different
fragrances

SERIE 400 ml
in 6 diverse
profumazioni



P/N **11.020**

LAVENDER / LAVANDA

Net content **400 ml**

x12 pcs - 27x22x21cm



P/N **11.020LI**

LEMON / LIMONE

Net content **400 ml**

x12 pcs - 27x22x21cm



P/N **11.020M**

MUSK / MUSCHIO

Net content **400 ml**

x12 pcs - 27x22x21cm



P/N **11.020ME**

MINT / MENTA

Net content **400 ml**

x12 pcs - 27x22x21cm



P/N **11.020P**

PINE / PINO

Net content **400 ml**

x12 pcs - 27x22x21cm



P/N **11.020V**

VANILLA / VANIGLIA

Net content **400 ml**

x12 pcs - 27x22x21cm



P/N **11.023**

LAVENDER / LAVANDA

Net content **50 ml**

x32 pcs - 30x15x14cm



P/N **11.023/1**

LAVENDER / LAVANDA

Net content **100 ml**

x12 pcs - 15x17x17cm



P/N **11.020.500**

LAVENDER / LAVANDA

Net content **500 ml**

x12 pcs - 27x22x25cm

**LAVENDER
FRAGRANCE
IN OTHER SIZES!
50, 100 and 500
ml SERIES**

**PROFUMAZIONE
LAVANDA IN
ALTRI FORMATI!
SERIE 50, 100 e
500 ml**

interior car cleaning igienizzazione interni auto

Perfumed purifying spray for cleaning and purifying the passenger compartment.
Spray igienizzanti profumati per la pulizia e l'igienizzazione dell'abitacolo.



P/N **11.024/1**

LAVENDER / LAVANDA

Net content **100 ml**

x12 pcs - 15x17x17cm



P/N **11.024/1LI**

LEMON / LIMONE

Net content **100 ml**

x12 pcs - 15x17x17cm



P/N **11.024/1M**

MUSK / MUSCHIO

Net content **100 ml**

x12 pcs - 15x17x17cm

100 ml SERIES
in 6 different
fragrances

SERIE 100 ml
in 6 diverse
profumazioni



P/N **11.024/1ME**

MINT / MENTA

Net content **100 ml**

x12 pcs - 15x17x17cm



P/N **11.024/1P**

PINE / PINO

Net content **100 ml**

x12 pcs - 15x17x17cm



P/N **11.024/1V**

VANILLA / VANIGLIA

Net content **100 ml**

x12 pcs - 15x17x17cm



P/N **11.024**

LAVENDER / LAVANDA

Net content **200 ml**

x12 pcs - 22x17x18cm



P/N **11.024LI**

LEMON / LIMONE

Net content **200 ml**

x12 pcs - 22x17x18cm



P/N **11.024M**

MUSK / MUSCHIO

Net content **200 ml**

x12 pcs - 22x17x18cm

200 ml SERIES
in 5 different
fragrances

SERIE 200 ml
in 5 diverse
profumazioni



P/N **11.024P**

PINE / PINO

Net content **200 ml**

x12 pcs - 22x17x18cm



P/N **11.024V**

VANILLA / VANIGLIA

Net content **200 ml**

x12 pcs - 22x17x18cm



P/N **11.728**

SMOKE / FUMO

Net content **200 ml**

x12 pcs - 22x17x18cm



P/N **11.729**

PET / ANIMALI

Net content **200 ml**

x12 pcs - 22x17x18cm

200 ml SERIES ODOR ELIMINATOR
PET and TOBACCO&SMOKE

SERIE 200 ml ANTI-ODORE
ANIMALI e FUMO DI SIGARETTA

complete cleaning treatment trattamento igienizzante completo



P/N **11.028**

LAVENDER / LAVANDA

Net content **2x 100 ml**

x12 pcs - 33x28x25cm

P/N **11.028V**

VANILLA / VANIGLIA

Net content **2x 200 ml**

x6 pcs - 33x28x25cm

Evaporator + passenger compartment
Evaporatore + abitacolo

P/N **11.214**

LAVENDER / LAVANDA

P/N **11.214LI**

LEMON / LIMONE

P/N **11.214ME**

MINT / MENTA

P/N **11.214M**

MUSK / MUSCHIO

P/N **11.214P**

PINE / PINO

P/N **11.214V**

VANILLA / VANIGLIA



Net content **2x 100 ml**

x12 pcs - 33x28x25cm

Evaporator FOAM + passenger compartment
SCHIUMA evaporatore + abitacolo

condenser cleaning pulizia condensatori

Specific product for external cleaning of condensers of the A/C system. It thoroughly cleans the finned condenser coils from any kind of dirt. The HIGH PRESSURE version has been designed to clean more effectively and hard-to-reach places.

Prodotto specifico per la pulizia esterna dei condensatori dell'impianto A/C. Pulisce a fondo le batterie alettate dei condensatori da ogni tipo di sporco. La versione ALTA PRESSIONE è stata progettata per pulire con maggiore efficacia e punti difficili da raggiungere.

CONDENSER CLEANER spray

spray PULITORI CONDENSATORI



P/N **11.022**

Net content **400 ml**

x12 pcs - 27x22x21cm



P/N **11.022.500**

Net content **500 ml**

x12 pcs - 33x28x25cm



P/N **11.734**

HIGH PRESSURE

Net content **500 ml**

x12 pcs - 33x28x25cm

visual diagnose diagnosi visiva

Ideal kit to perform a visual diagnosis of the system using a vitreous filter and check for any impurities such as the presence of moisture, sealants or tracers, gas and dirty lubricant.

Kit ideale per eseguire una diagnosi visiva dell'impianto tramite filtro vitreo e verificare le eventuali impurità come presenza di umidità, di sostanze sigillanti o traccianti, di gas e di lubrificante sporco.



x1 pc - 53x13x42cm

P/N 13.084

P/N 13.084YFK



R-134a

DIAWASH KIT



R-1234yf

x1 pc



P/N 13.717

Metal wire with hook
Laccio metallico con gancetto

Spare parts / Parti di ricambio

x1 pc



P/N 13.079/1

Metal mesh filter spare part
Filtro di ricambio a maglia metallica

x1 pc



P/N 13.506

Sight glass with litmus paper
Vetro-spia con cartina tornasole

R-134a / R-1234yf gas analyzer analizzatore gas R-134a / R-1234yf

The GAS CHECKER is an HFC R-134a and HFO R-1234yf refrigerant gas analyzer module. This portable device is able to analyze the gas contained in an external cylinder or in the system of a car, establishing the degree of purity and any contaminants contained.

Il GAS CHECKER è un modulo analizzatore del gas refrigerante HFC R-134a e HFO R-1234yf. Questo apparecchio portatile è in grado di analizzare il gas contenuto in una bombola esterna o nell'impianto di una vettura, stabilendo il grado di purezza e di eventuali contaminanti contenuti.



P/N 13.705



P/N 13.705/2

filter to retain impurities
filtro per trattenere impurità



TECHNICAL FEATURES:

- 3.5" graphic interface with multilingual software
- Dual power supply: 12V DC - 100 / 240V
- Standard printer
- Internal chamber flushing pump
- Purity standards both according to VDA regulations (ok - not ok →95%) and with percentage of R-134a or R-1234yf gas and contaminants
- Operative Temperature Range: 10°C - 50°C
- Analyzed gas: R-134a / R-1234yf
- Test duration: 60 sec (+ calibration)

CARATTERISTICHE TECNICHE:

- Interfaccia grafica 3,5" con software multilingua
- Doppia alimentazione: 12V DC - 100/240V
- Stampante di serie
- Pompa di lavaggio camera interna
- Analisi purezza sia secondo normativa VDA (ok - not ok →95%) sia con percentuale di gas R-134a o R-1234yf e contaminanti
- Range Temperatura di funzionamento: 10°C - 50°C
- Gas analizzato: R-134a / R-1234yf
- Durata test: 60 sec (+ calibrazione)

Included / Incluso



clamps and 220V AC/12V DC transformer
pinze e trasformatore 220V AC/12V DC



R-134a cylinder connection
Connessione a bombola R-134a



R-1234yf cylinder connection
Connessione a bombola R-1234yf

flushing / lavaggio



P/N **13.529**

Pneumatic flushing unit
Macchina lavaggio **pneumatica**



Internal tank: 10 liter

Sizes: 40x33x41 cm

Weight: 10,5 Kg

Supply: air

Max pressure: 7 bars

Pneumatic pump

Washable filter

Serbatoio interno: 10 litri

Dimensioni: 40x33x41 cm

Peso: 10,5 Kg

Alimentazione: aria

Pressione massima: 7 bar

Pompa pneumatica

Filtro lavabile

Supplied with the pneu-
matic flushing unit
In dotazione con la mac-
china lavaggio pneumatica



P/N **13.511**

Conical adapter set (2 pcs) / Set di adattatori conici (2 pz)

P/N **Y13.124YT**

2x 1.8m yellow hose - F/F1/4" SAE (7/16-20UNF-2B).

/ 2x tubo giallo 1.8m - F1/4" SAE (7/16-20UNF-2B).


P/N **13.526**

Electric flushing unit
Macchina lavaggio **elettrica**



Diagnostic function with the sight glass;
Flushing pump: max flow 50 liters, max pressure 4 bars

Funzione diagnostica con il vetro-spia;
Pompa per il lavaggio: portata 50 litri; pressione max 4 bar



Diagnostic function with the sight glass;
Flushing pump: max flow 50 liters, max pressure 4 bars

Funzione diagnostica con il vetro-spia;
Pompa per il lavaggio: portata 50 litri; pressione max 4 bar


P/N **13.532**

Electric flushing unit
Macchina lavaggio **elettrica**

Supplied with the electric
flushing units
In dotazione con le mac-
chine lavaggio elettriche


P/N **13.511**

Conical adapter set (2 pcs) / Set di adattatori conici (2 pz)

P/N **/**

2x 2m transparent hose - F1/4" SAE (7/16-20UNF-2B) x 45° F1/4" SAE (7/16-20UNF-2B) with tap;
1x 1m transparent hose - F1/4" SAE (7/16-20UNF-2B) x 45° F1/4" SAE (7/16-20UNF-2B) with tap;
1x 1m transparent hose - F1/4" SAE (7/16-20UNF-2B) x F1/4" SAE (7/16-20UNF-2B).
2x tubo trasparente 2m - F1/4" SAE (7/16-20UNF-2B) x F1/4" SAE (7/16-20UNF-2B) 45° con rubinetto;
1x tubo trasparente 1m - F1/4" SAE (7/16-20UNF-2B) x F1/4" SAE (7/16-20UNF-2B) 45° con rubinetto;
1x tubo trasparente 1m - F1/4" SAE (7/16-20UNF-2B) x F1/4" SAE (7/16-20UNF-2B).

P/N **/**

10-liter plastic container / Tanica di plastica da 10 litri

P/N **11.035**Net content **1 liter**

x12 pcs - 33x28x25cm

P/N **11.036**Net content **5 liter**

x2 pcs - 32x28x21cm

Not flammable A/C FLUSH

Drying with nitrogen
is required

LIQUIDI di LAVAGGIO non infiammabili

Necessaria asciugatura
con azoto

Flammable A/C FLUSH

High evaporation!
Don't use with
electric equipment

LIQUIDI di LAVAGGIO infiammabili

Evaporazione rapida!
Non usare con
attrezzatura elettricaP/N **11.035F**Net content **1 liter**

x12 pcs - 33x28x25cm

P/N **11.036F**Net content **5 liter**

x2 pcs - 32x28x21cm

P/N **11.227F**Net content **25 liter**

x1 pc

P/N **11.070****SPRAY**Net content **500 ml**

x12 pcs - 28x22x30cm

P/N **11.070.600****SPRAY**Net content **600 ml**

x12 pcs - 28x22x30cm

P/N **11.713K****KIT SPRAY**Net content **600 ml**

x3 pcs

Spare parts Parti di ricambio

P/N **11.713****CYLINDER / BOMBOLA**Net content **600 ml**

x12 pcs - 28x22x30cm

P/N **11.714****HOSE and GUN
TUBO e PISTOLA**

x1 pc

P/N /

10 liter tank with connecting hose
Tanica in plastica da 10 litri con tubo di collegamento

P/N 078.000

Bin for collecting the outgoing liquid
Bidone per la raccolta del liquido in uscita

P/N 13.201

750 ml aluminium tank + hose and gun
Serbatoio in alluminio + tubo e pistola

P/N 13.511

Conical adapters set (2 pieces) / Set di adattatori conici (2 pezzi)



P/N 88.402

Flushing kit
Kit **lavaggio**



P/N 13.201

750 ml aluminium **flush** tank
Serbatoio **lavaggio** in alluminio 750 ml

Spare parts

Parti di ricambio

P/N 13.124Y

Yellow HOSE / TUBO giallo

1,5 m - F/F1/4" SAE
(7/16-20UNF-2B)

P/N 13.099

FLUSH GUN
PISTOLA di LAVAGGIO

P/N **13.074**

Wash & dry Nitrogen kit

Kit Azoto lava & asciuga

P/N **13.200**

1 liter Nitrogen cylinder / Bombola Azoto 1 litro

P/N **13.203.20B**20 bar pressure regulator for 1 liter cylinder
Regolatore di pressione 20 bar per bombole 1 litroP/N **13.201**750 ml aluminium tank + hose and gun
Serbatoio in alluminio + tubo e pistolaP/N **13.1058Y**

30 cm yellow hose - F1/4" SAE (7/16-20UNF-2B) x 90° F1/4" SAE (7/16-20UNF-2B)

Tubo giallo 30 cm - F1/4" SAE (7/16-20UNF-2B) x F1/4" SAE (7/16-20UNF-2B) 90°

P/N **13.200**

1 liter Nitrogen cylinder / Bombola Azoto 1 litro

P/N **13.203.20B**20 bar pressure regulator for 1 liter cylinder
Regolatore di pressione 20 bar per bombole 1 litroP/N **13.099**

Flush gun / Pistola di lavaggio

P/N **13.124Y**

1,5 m yellow hose - F1/4" SAE (7/16-20UNF-2B) x F1/4" SAE (7/16-20UNF-2B)

Tubo giallo 1,5 m - F1/4" SAE (7/16-20UNF-2B) x F1/4" SAE (7/16-20UNF-2B)

P/N **13.527**

Nitrogen kit for drying

Kit Azoto per l'asciugatura

P/N **13.500B**

Flushing components in suitcase

Componenti per il lavaggio in valigetta

P/N **13.511**

Conical adapters set (2 pieces) / Set di adattatori conici (2 pezzi)

P/N **/**30 cm yellow hose - F1/4" SAE x 90° F1/4" SAE
Tubo giallo 30 cm - F1/4" SAE x F1/4" SAE 90°P/N **88.214**

Adapter / Adattatore F/F1/4" SAE (7/16-20UNF-2B)

P/N **13.503**Filter / Filtro Ø 58 mm x 119 mm
M/M1/4" SAE (7/16-20UNF-2A)P/N **13.614**

Ball valve / Valvola a sfera M/M1/4" SAE (7/16-20UNF-2A)

P/N **13.506**Sight glass with litmus paper / Vetro-spia con cartina tornasole
M/M1/4" SAE (7/16-20UNF-2A)



P/N **13.530**

Flush & leak detection kit Kit lavaggio & ricerca fughe

P/N **13.200/2**

2.2-liter 100%o-N2 cylinder / Bombola 100%o-N2 2.2 litri

P/N **13.209/2**

2.2-liter 95%o-N2 5%o-H2 / Bombola 95%o-N2 5%o-H2 2.2 litri

P/N **13.201**

750 ml aluminium tank + hose and gun
/ Serbatoio in alluminio + tubo e pistola

P/N **13.203.20B**

20 bar pressure regulator for 1 liter cylinder
/ Regolatore di pressione 20 bar per bombole 1 litro

P/N **88.217**

Adapter / Adattatore M1/4" SAE (7/16-20UNF-2A) x M12x1,5

P/N **13.080YF**

HP quick coupler for R-1234yf x M12x1,5
/ Attacco rapido AP per R-1234yf x M12x1,5

P/N **13.034**

HP quick coupler for R-134a x M1/4"SAE
/ Attacco rapido AP per R-134a x M1/4" SAE

P/N **13.512/1**

Manifold gauge with hose / Manometro con tubo
Gas: R-134a, R-1234yf, R-404A, R-407C, R-422D, R-507, R-22, R-32, R-410A

P/N **13.124Y**

1,5 mt yellow hose / Tubo giallo 1,5 mt - 2x F1/4" SAE
(7/16-20UNF-2B) - Gas: R-134a, R-1234yf, R-404A, R-407C, R-422D, R-507, R-22, R-32, R-410A



P/N **13.060**

Conical adapter set Set di adattatori conici



P/N **13.511**

Conical adapter set Set adattatori conici (2 pieces / pezzi)



Sealing rubber cone (small)
Cono di tenuta in gomma (piccolo)

P/N **13.510/1**



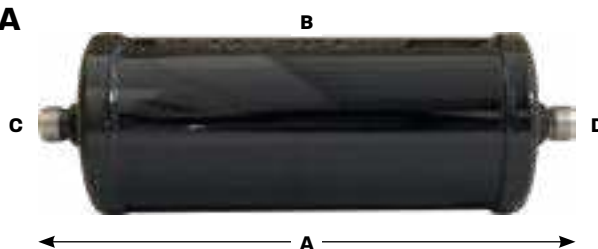
Sealing rubber cone (big)
Cono di tenuta in gomma (grande)

P/N **13.510/2**

filters for charging stations filtri per stazioni di ricarica

(compatible with / compatibile con)

ISC, ROBINAIR, TEXA

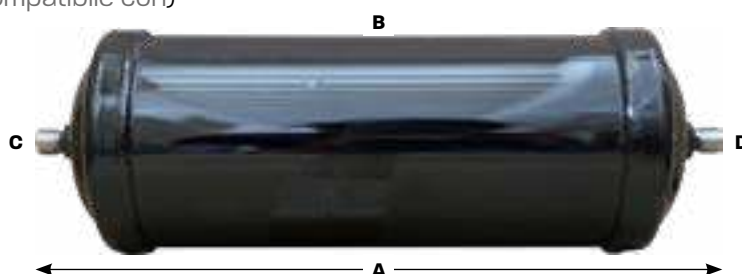


A. 234 mm
B. Ø 76 mm
C. D. 3/8" OR

P/N **15.002W**

(compatible with / compatibile con)

ROBINAIR, SPX

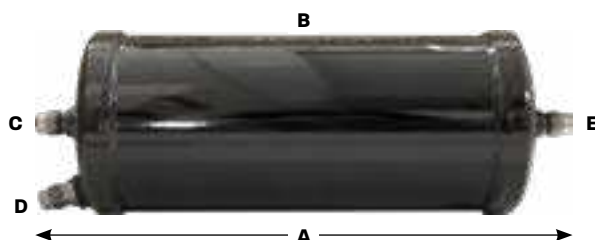


A. 294 mm
B. Ø 90 mm
C. D. 1/4" OR

P/N **15.004W**

(compatible with / compatibile con)

WIGAM, CTR

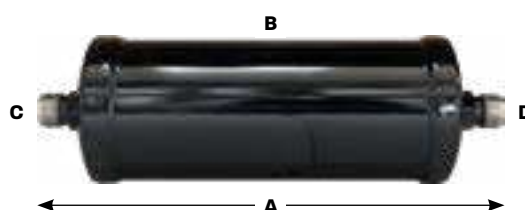


A. 230 mm
B. Ø 76 mm
C. D. E. 1/4" flare / cono

P/N **15.005**

(compatible with / compatibile con)

ISC

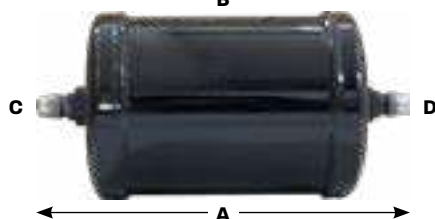


A. 207 mm
B. Ø 60 mm
C. D. 3/8" OR

P/N **15.006W**

(compatible with / compatibile con)

MAVRE, KRIOS, SPIN, ECOTECHNICS ^B



A. 160 mm

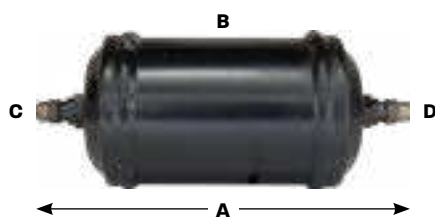
B. Ø 76 mm

C. D. 1/4" flare / cono

P/N **15.007**

(compatible with / compatibile con)

AIR SOLUTIONS, OKSYS



A. 158 mm

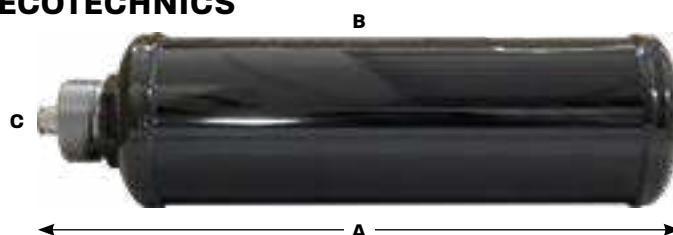
B. Ø 60 mm

C. D. 1/4" flare / cono

P/N **15.010**

(compatible with / compatibile con)

ROBINAIR, SPX, ECOTECHNICS



A. 290 mm

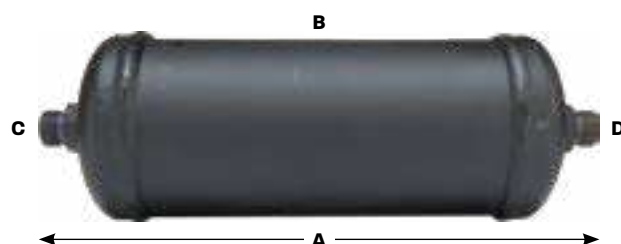
B. Ø 76 mm

C. 1-1/2"-12UNF-2A

P/N **15.011**

(compatible with / compatibile con)

TEXA



A. 240 mm

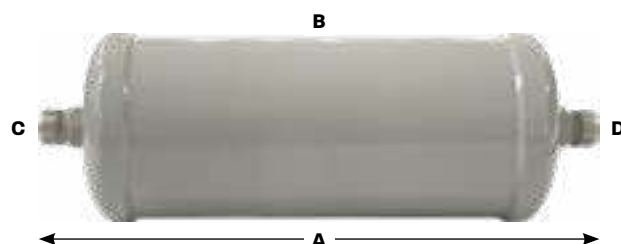
B. Ø 76 mm

C. D. 3/8" OR

P/N **15.013W**

(compatible with / compatibile con)

TEXA



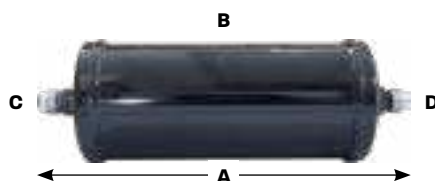
A. 238 mm

B. Ø 76 mm

C. D. 3/8" OR

P/N **15.014W**

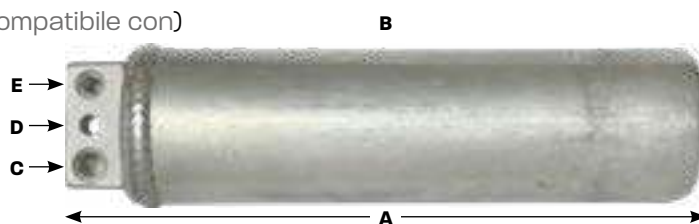
(compatible with / compatibile con)

BRAIN BEE - MAHLE**A.** 160 mm**B.** Ø 76 mm**C. D.** 1/4" flare / cono**P/N 15.048**

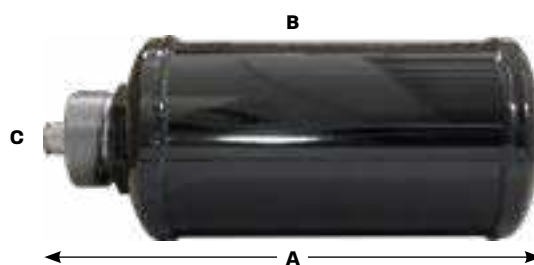
(compatible with / compatibile con)

BRAIN BEE - MAHLE**A.** 170 mm**B.** Ø 76 mm**C. D.** 3/8" flare / cono**P/N 15.050****NEW!**

(compatible with / compatibile con)

WAECO**A.** 275 mm**B.** Ø 67 mm**C.** IN (Øxdeep) 13,7x3,5 mm / 11,7x8,0 mm / 10,0x6,9 mm**D.** Ø 9,02 mm (through / passante)**E.** OUT (Øxdeep) 10,6x3,4 mm / 8,6x5,7 mm / 7,0x10,2 mm**P/N 15.058****NEW!**

(compatible with / compatibile con)

BOSCH**A.** 213 mm**B.** Ø 76 mm**C.** 1-3/8"-12UNF-2A**P/N 15.059****NEW!**

filter maintenance kit kit manutenzione filtri



P/N 20.4002 + P/N 11.075 + P/N 15.???

Select the filter you need for your charging station and find the relevant kit P/N.

Seleziona il filtro che ti occorre per la tua stazione di ricarica e trova il relativo P/N del kit.

1x Filter / Filtro P/N 15.010



P/N 88.801

1x Filter / Filtro P/N 15.005



P/N 88.802

1x Filter / Filtro P/N 15.007



P/N 88.800

1x Filter / Filtro P/N 15.004W



P/N 88.803

1x Filter / Filtro P/N 15.006W



P/N 88.804

1x Filter / Filtro P/N 15.002W



P/N 88.805

2x Filter / Filtro P/N 15.010



P/N 88.806

1x Filter / Filtro P/N 15.013W



P/N 88.809

1x Filter / Filtro P/N 15.011



P/N 88.810

1x Filter / Filtro P/N 15.014W



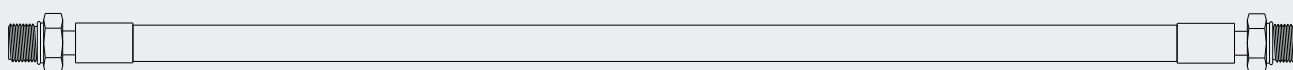
P/N 88.811



hoses tubazioni

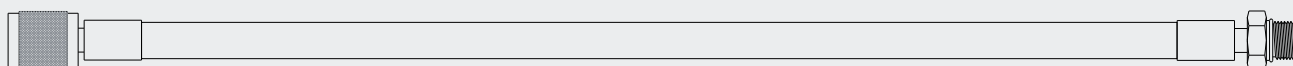
R-134a: 800PSI (55BAR) W.P. - 4000PSI (275BAR) B.P. - SAE J2196
R-1234yf: 800PSI (55BAR) W.P. - 4000PSI (275BAR) B.P. - SAE J2888

hoses for **R-1234yf** / tubi per **R-1234yf**



SAE J2888 - M12x1,5 (YF) x M12x1,5 (YF)

↔ 2500 mm	● Y13.1026BYF	● Y13.1026RYF
↔ 3000 mm	● Y13.102B	● Y13.102R
↔ 4500 mm	● Y13.198B	● Y13.198R
↔ 5000 mm	● Y13.1242B	● Y13.1242R
↔ 6000 mm	● Y13.1010BYF	● Y13.1010RYF



SAE J2888 - F14x1,5 (ACME) x M12x1,5 (YF)

↔ 2500 mm	● Y13.1013BYF	● Y13.1013RYF
↔ 3000 mm	● Y13.1014B	● Y13.1014R
↔ 3500 mm	● Y13.1251B	● Y13.1251R



SAE J2888 - F1/4" SAE (7/16-20UNF-2B) x M12x1,5 (YF)

↔ 2500 mm	● 13.103BYF	● 13.103RYF
↔ 3000 mm	● 13.111BYF	● 13.111RYF
↔ 3500 mm	● Y13.184B	● Y13.184R
↔ 4000 mm	● 13.102BYF	● 13.102RYF
↔ 5000 mm	● Y13.143B	● Y13.143R
↔ 6000 mm	● Y13.1037B	● Y13.1037R
↔ 7500 mm	● Y13.1038B	● Y13.1038R

hoses for R-134a / tubi per R-134a



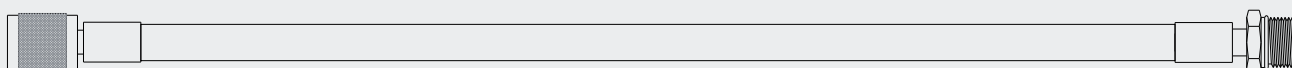
SAE J2196 - F1/4" SAE (7/16-20UNF-2B) x F1/4" SAE (7/16-20UNF-2B)

2500 mm	13.103B	13.103R
3000 mm	13.111B	13.111R
3500 mm	13.1081B	13.1081R
4000 mm	13.102B	13.102R
5000 mm	13.194B	13.194R
6000 mm	13.134BT	13.134RT
7500 mm	13.1054B	13.1054R



SAE J2196 - F1/4" SAE (7/16-20UNF-2B) x 90° F1/4" SAE (7/16-20UNF-2B)

2500 mm	13.149B	13.149R
3000 mm	13.112B	13.112R
4000 mm	13.170B	13.170R
5000 mm	13.1064B	13.1064R
6000 mm	13.1063B	13.1063R
7500 mm	13.1179B	13.1179R



SAE J2196 - F14x1,5 (ACME) x M14x1,5 (ACME)

2500 mm	13.126B	13.126R
3000 mm	13.189B	13.189R
3500 mm	13.1239B	13.1239R
4000 mm	13.166B	13.166R
5000 mm	13.1033B	13.1033R
6000 mm	13.143BNT	13.143RNT



SAE J2196 - F1/4" SAE (7/16-20UNF-2B) x M14x1,5 (ACME)

3000 mm	13.1144B	13.1144R
3500 mm	13.1238B	13.1238R
5000 mm	13.1040B	13.1040R
6000 mm	13.1141B	13.1141R

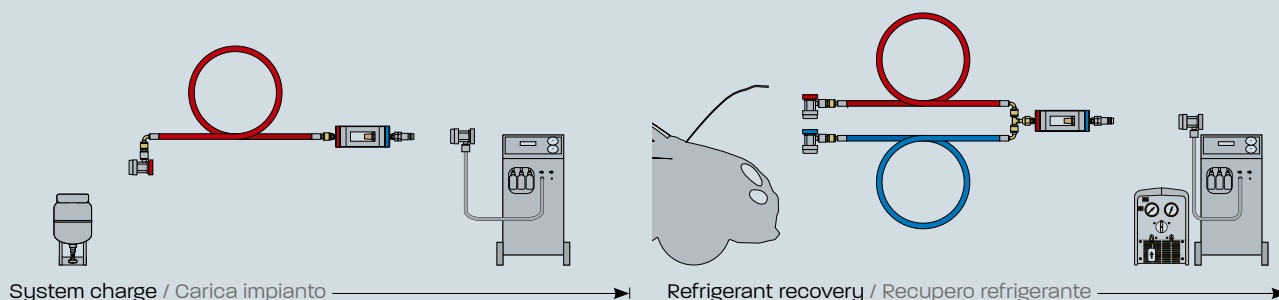


gas polymerization polimerizzazione gas


NEW!
x1 pc - 53x13x42cm
P/N 13.010

ELKE A/C RECOVERY GUARD

- | | |
|----------------------|--|
| P/N 13.079S | Pirex One vitreous filter / Filtro vitreo Pirex One |
| P/N Y13.147B | 1,0 mt blue hose - F1/4" SAE (7/16-20UNF-2B) x 90° F1/4" SAE (7/16-20UNF-2B)
Tubo blu 1,0 mt - F1/4" SAE (7/16-20UNF-2B) x F1/4" SAE (7/16-20UNF-2B) 90° |
| P/N Y13.147R | 1,0 mt red hose - F1/4" SAE (7/16-20UNF-2B) x 90° F1/4" SAE (7/16-20UNF-2B)
Tubo blu 1,0 mt - F1/4" SAE (7/16-20UNF-2B) x F1/4" SAE (7/16-20UNF-2B) 90° |
| P/N 88.010YF | R-1234yf LP adapter x F1/4" SAE (7/16-20UNF-2B) / Adattatore BP R-1234yf x F1/4" SAE (7/16-20UNF-2B) |
| P/N 13.080YF | R-1234yf HP quick coupler with tap x 90° F12x1,5 adapter
Attacco rapido AP R-1234yf con tappo x adattatore F12x1,5 90° |
| P/N 13.081YF | R-1234yf LP quick coupler with tap x 90° F12x1,5 adapter
Attacco rapido BP R-1234yf con tappo x adattatore F12x1,5 90° |
| P/N 88.650 | "T" adapter - M1/4" SAE (7/16-20UNF-2A) x M1/4" SAE (7/16-20UNF-2A) x F1/4" SAE (7/16-20UNF-2B)
Attacco a "T" - M1/4" SAE (7/16-20UNF-2A) x M1/4" SAE (7/16-20UNF-2A) x F1/4" SAE (7/16-20UNF-2B) |
| 2x P/N 88.217 | M12x1,5 x M1/4" SAE (7/16-20UNF-2A) adapter / Adattatore M12x1,5 x M1/4" SAE (7/16-20UNF-2A) |
| P/N 88.214 | F1/4" SAE (7/16-20UNF-2A) x F1/4" SAE (7/16-20UNF-2A) adapter
Adattatore F1/4" SAE (7/16-20UNF-2A) x M1/4" SAE (7/16-20UNF-2A) |
| P/N 13.614 | M1/4" SAE (7/16-20UNF-2A) x F1/4" SAE (7/16-20UNF-2B) ball valve
Valvola a sfera M1/4" SAE (7/16-20UNF-2A) x F1/4" SAE (7/16-20UNF-2B) |



ELKE A/C RECOVERY GUARD and ELKE A/C CHARGE PROTECTOR - AUTO

were developed with the aim of protect equipment and A/C systems from the phenomenon of **HFO R-1234yf gas polymerization**.

ELKE A/C RECOVERY GUARD e ELKE A/C CHARGE PROTECTOR - AUTO

sono stati sviluppati per proteggere le attrezzature e gli impianti A/C dal fenomeno della **polimerizzazione del gas HFO R-1234yf**.

NEW!



x1 pc - 10x5,2x21cm

P/N **13.010LC**

ELKE A/C CHARGE PROTECTOR - AUTO

P/N **13.079S**

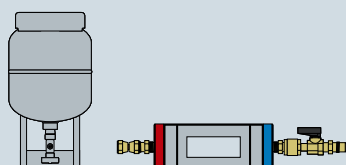
Pirex One vitreous filter / Filtro vitreo Pirex One

P/N **88.214**

F1/4" SAE (7/16-20UNF-2A) x F1/4" SAE (7/16-20UNF-2A) adapter
Adattatore F1/4" SAE (7/16-20UNF-2A) x M1/4" SAE (7/16-20UNF-2A)

P/N **13.614**

M1/4" SAE (7/16-20UNF-2A) x F1/4" SAE (7/16-20UNF-2B) ball valve
Valvola a sfera M1/4" SAE (7/16-20UNF-2A) x F1/4" SAE (7/16-20UNF-2B)



System charge / Carica impianto →

quick couplers attacchi rapidi

R-1234yf

x1 pc



A. HP / AP R-1234yf
B. F12x1,5

P/N 13.080YF

x1 pc



A. LP / BP R-1234yf
B. F12x1,5

P/N 13.081YF

x1 pc



A. HP / AP R-1234yf
B. F12x1,5
C. M12x1,5
D. M1/4" SAE

P/N 13.058HYF

x1 pc



A. LP / BP R-1234yf
B. F12x1,5
C. M12x1,5
D. M1/4" SAE

P/N 13.058LYF

x1 pc



A. HP / AP R-1234yf
B. M1/4" SAE

P/N 13.023HYF

x1 pc



A. LP / BP R-1234yf
B. M1/4" SAE

P/N 13.023LYF

x1 pc



A. HP / AP R-1234yf
B. HP / AP R-1234yf

P/N 13.038YF

RENAULT / FORD

x1 pc

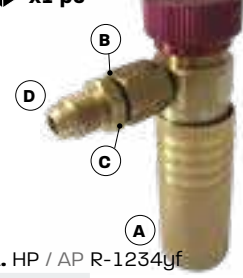


A. LP / BP R-1234yf
B. LP / BP R-1234yf

P/N 13.039YF

RENAULT / FORD

x1 pc



A. HP / AP R-1234yf
B. F12x1,5
C. M12x1,5
D. M1/4" SAE

P/N 13.020YF

BMW

x1 pc



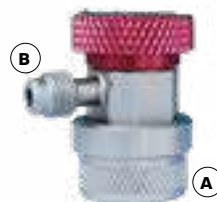
A. HP (AP) R-1234yf
B. LP (BP) R-1234yf

P/N 13.095YF

RENAULT

R-134a

x1 pc



A. HP / AP R-134a
B. M1/4" SAE

P/N 13.034

x1 pc



A. LP / BP R-134a
B. M1/4" SAE

P/N 13.035

x1 pc



A. HP / AP R-134a
B. M3/8" SAE

P/N 13.080G

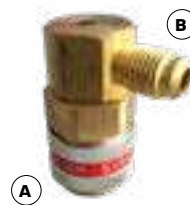
x1 pc



A. LP / BP R-134a
B. M3/8" SAE

P/N 13.081G

x1 pc



A. HP / AP R-134a
B. M1/4" SAE

P/N 13.036

x1 pc



A. LP / BP R-134a
B. M1/4" SAE

P/N 13.037

x1 pc



A. HP / AP R-134a
B. M1/4" SAE

P/N 13.038

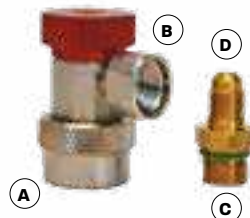
x1 pc



A. LP / BP R-134a
B. M1/4" SAE

P/N 13.039

x1 pc



A. HP / AP R-134a
B. F14x1,5
C. M14x1,5
D. M1/4" SAE

P/N 13.080

x1 pc



A. LP / BP R-134a
B. F14x1,5
C. M14x1,5
D. M1/4" SAE

P/N 13.081

x1 pc



A. HP / AP R-134a
B. F14x1,5
C. M14x1,5
D. M1/4" SAE

P/N 13.047H

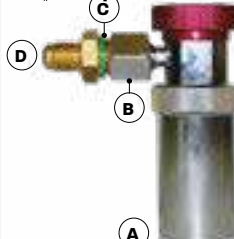
x1 pc



A. LP / BP R-134a
B. F14x1,5
C. M14x1,5
D. M1/4" SAE

P/N 13.047L

x1 pc



A. HP / AP R-134a
B. F14x1,5
C. M14x1,5
D. M1/4" SAE

P/N 13.038D

x1 pc



A. HP / AP R-134a
B. LP (BP) R-134a

P/N 13.095

BMW

RENAULT

BRANDED PREMIUM QUALITY - PARKER

x1 pc



A. HP / AP R-134a
B. F14x1,5

P/N **13.262**

x1 pc



A. LP / BP R-134a
B. F14x1,5

P/N **13.263****R-134a**

x1 pc



A. HP / AP R-1234yf
B. F12x1,5

P/N **13.270YF**

x1 pc



A. LP / BP R-1234yf
B. F12x1,5

P/N **13.269YF****R-1234yf****PREMIUM QUALITY**

x1 pc



A. HP / AP R-134a
B. Tap / Rubinetto
C. HP / AP R-134a

P/N **13.045**

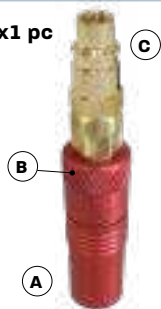
x1 pc



A. LP / BP R-134a
B. Tap / Rubinetto
C. LP / BP R-134a

P/N **13.046****R-134a**

x1 pc



A. HP / AP R-1234yf
B. Tap / Rubinetto
C. HP / AP R-1234yf

P/N **13.045YF**

x1 pc



A. LP / BP R-1234yf
B. Tap / Rubinetto
C. LP / BP R-1234yf

P/N **13.046YF****R-1234yf**



small tools / minuteria

ADAPTERS for quick couplers ADATTATORI per attacchi rapidi



A. LP / BP R-134a
B. F1/4" SAE

P/N **88.010/5**



A. HP / AP R-134a
B. F1/4" SAE

P/N **88.011/5**



A. HP / AP R-134a
B. F1/4" SAE

P/N **88.042/5**



A. LP / BP R-134a
B. F1/4" SAE

P/N **88.043/5**



A. HP / AP R-134a
B. F3/16" SAE

P/N **88.272/5**



A. HP / AP R-134a
B. F3/16" SAE

P/N **88.273/5**

R-134a



A. HP / AP R-134a
B. M15x1

P/N **88.123/5**



A. LP / BP R-134a
B. M13x1

P/N **88.125/5**



A. LP / BP R-134a
B. M10x1.25 (Ford)

P/N **88.126/5**



A. HP / AP R-134a
B. M12x1.25 (Ford, GM, Chrysler)

P/N **88.128/5**



A. LP / BP R-1234yf
B. F1/4" SAE

P/N **88.010YF/5**



A. HP / AP R-1234yf
B. F1/4" SAE

P/N **88.011YF/5**



A. HP / AP R-1234yf
B. M15x1

P/N **88.123YF/5**



A. HP / AP R-1234yf
B. M13x1

P/N **88.125YF/5**

R-1234yf

CAPS for charging valves TAPPI per valvole di carica

x5 pcs



LP / BP
M8x1

P/N 88.008/5

x5 pcs



HP / AP
M8x1

P/N 88.009/5

x5 pcs



1/4" SAE

P/N 88.093/5

x5 pcs



Short thread / Filetto corto
M8x1 - R-1234yf

P/N 88.230/5

x5 pcs



Long thread / Filetto lungo
M8x1 - R-1234yf

P/N 88.231/5

x5 pcs



LP / BP
M9x1

P/N 88.094/5

x5 pcs



HP / AP
M10x1.25

P/N 88.095/5

x5 pcs



3/16" SAE

P/N 88.096/5

x5 pcs



M9x1 - R-1234yf

P/N 88.232/5

x5 pcs



M10x0.75

P/N 88.097/5

x5 pcs



M8x1

P/N 88.098/5

x5 pcs



HP / AP
M10x1

P/N 88.099/5

x5 pcs



M10x0.75 - R-1234yf

P/N 88.233/5

x5 pcs



LP / BP
M8x1

P/N 88.100/5

x5 pcs



LP / BP
M9x1

P/N 88.101/5

x5 pcs



HP / AP
M10x1.25

P/N 88.102/5

x5 pcs



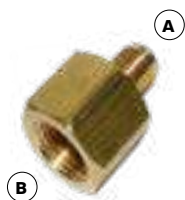
M10x1.25 - R-1234yf

P/N 88.234/5

R-1234yf

R-134a

x5 pcs



A. M1/4" SAE
B. F3/8" SAE

P/N **88.135/5**

ADAPTERS ADATTATORI



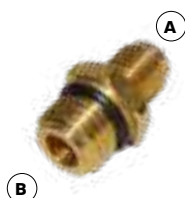
x5 pcs



A. F1/4" SAE
B. M3/8" SAE

P/N **88.142/5**

x5 pcs



A. M1/4" SAE
B. M14x1,5

P/N **88.210/5**

x5 pcs



A. M18NPT
B. M1/4" SAE

P/N **88.211/5**

x5 pcs



A. M1/4" SAE
B. M12x1,5

P/N **88.217/5**

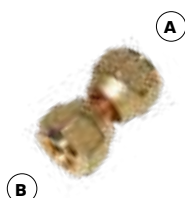
x5 pcs



A. M1/4" SAE
B. M1/4" SAE

P/N **88.212/5**

x5 pcs



A. F1/4" SAE
B. F1/4" SAE

P/N **88.214/5**

x5 pcs



A. M1/4" SAE
B. F1/2 ACME

P/N **88.216/5**

x5 pcs



A. M3/8" SAE
B. M12x1,5

P/N **88.218/5**

x1 pc



A.B. M1/4" SAE
C. F1/4" SAE

P/N **88.412**

x5 pcs



A.B. M1/4" SAE
C. F1/4" SAE

P/N **88.650/5**

x5 pcs



A. M1/4NPT
B. M1/4" SAE

P/N **88.652/5**

NEW!

x5 pcs



A. F14x1,5
B. M12x1,5

P/N **88.227/5**

R-1234yf

CYLINDER ADAPTERS ADATTATORI BOMBOLA

Spare parts Parti di ricambio

R-134a

x5 pcs



A. M1/4" SAE
B. W21.8-14

P/N 88.072/5

x10 pcs



square section
sezione squadrata

P/N 88.072T/10

x5 pcs



A. M1/4" SAE
B. 1/2 ACME L (left / sinistro)

P/N 88.183/5

x1 pc



A. LP / BP (R-1234yf)
B. 1/2 ACME L (left / sinistro)

P/N 88.277

DUPONT

x1 pc



A. HP / AP (R-1234yf)
B. 1/2 ACME L (left / sinistro)

P/N 88.277H

DUPONT

R-1234yf

x1 pc



A. LP / BP (R-1234yf)
B. 0.5 inch - 16 ACME-2G-L (left / sinistro)

P/N 88.278

HONEYWELL

x1 pc



A. HP / AP (R-1234yf)
B. 0.5 inch - 16 ACME-2G-L (left / sinistro)

P/N 88.278H

HONEYWELL

x1 pc



cylinders put on market
from July 2015!!
bombole messe in commercio
da Luglio 2015!!

A. LP / BP (R-1234yf)
B. W21.8-1/14"L (left / sinistro)

P/N 88.289

UNIVERSAL

x1 pc



cylinders put on market
from July 2015!!
bombole messe in commercio
da Luglio 2015!!

A. HP / AP (R-1234yf)
B. W21.8-1/14"L (left / sinistro)

P/N 88.289H

UNIVERSAL

1:1

**STD. HNBR O-RINGS**
O-RING in HNBR STD.**STD. G6/G8/G10/G12**

x10 pcs



G6

P/N **88.001/10**

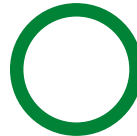
x10 pcs



G8

P/N **88.003/10**

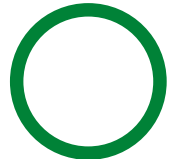
x10 pcs



G10

P/N **88.002/10**

x10 pcs



G12

P/N **88.004/10**

x10 pcs

P/N **88.020/10**

x10 pcs

P/N **88.162/10**

x10 pcs

P/N **88.016/10**

x10 pcs

P/N **88.014/10**

x10 pcs

P/N **88.024/10**

x10 pcs

P/N **88.113/10**

x10 pcs

P/N **88.075/10**

x10 pcs

P/N **88.139/10**

x10 pcs

P/N **88.110/10**

x10 pcs

P/N **88.019/10**

x10 pcs

P/N **88.021/10**

x10 pcs

P/N **88.015/10**



P/N **13.086**

O-Ring pick / Attrezzo togl O-Ring

 x10 pcs



P/N **88.068/10**

 x10 pcs



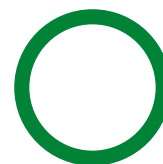
P/N **88.013/10**

 x10 pcs



P/N **88.018/10**

 x10 pcs



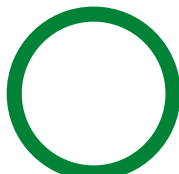
P/N **88.153/10**

 x10 pcs



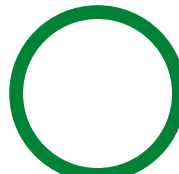
P/N **88.060/10**

 x10 pcs



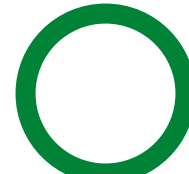
P/N **88.077/10**

 x10 pcs



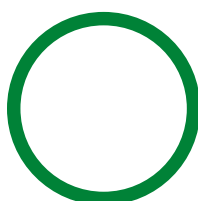
P/N **88.018G/10**

 x10 pcs



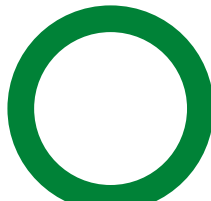
P/N **88.118/10**

 x10 pcs



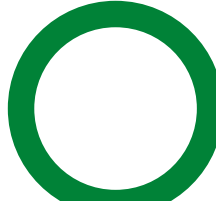
P/N **88.152/10**

 x10 pcs



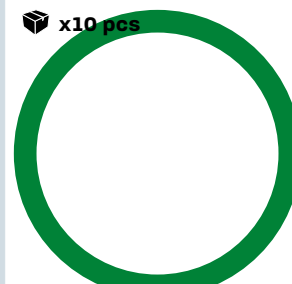
P/N **88.017/10**

 x10 pcs



P/N **88.155/10**

 x10 pcs



P/N **88.047/10**

1:1



SPECIAL SEALING GASKETS

GUARNIZIONI di TENUTA SPECIALI

DOUBLE LIP / DOPPIO LABBRO

x10 pcs



section / sezione

P/N 88.006/10

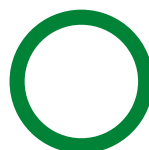
x10 pcs



section / sezione

P/N 88.005/10

x10 pcs



section / sezione

P/N 88.007/10

x10 pcs

Peugeot / Citroën
6460P0

section / sezione

P/N 88.026/10

x10 pcs

Peugeot / Citroën
6460P1

section / sezione

P/N 88.027/10

x10 pcs

Renault 1-7001207274



section / sezione

P/N 88.028/10

x10 pcs

Renault 2-7001207274



section / sezione

P/N 88.029/10

x10 pcs

Renault 3-7001207274



section / sezione

P/N 88.030/10

x5 pcs



section / sezione

P/N 88.034B/5

x5 pcs



section / sezione

P/N 88.033B/5

x5 pcs



section / sezione

P/N 88.032B/5

x5 pcs



section / sezione

P/N 88.031B/5

x10 pcs



section / sezione

P/N 88.161/10

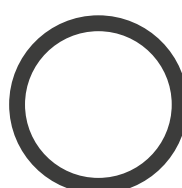
x10 pcs



section / sezione

P/N 88.257/10

x10 pcs



section / sezione

P/N 88.258/10

x10 pcs



section / sezione

P/N 88.259/10

MOULDED / SAGOMATI

SPRING LOCK

 x10 pcs

G6

P/N **88.035/10**

 x10 pcs

G8

P/N **88.036/10**

 x10 pcs

G10

P/N **88.037/10**

 x10 pcs

G12

P/N **88.038/10**

SPRING LOCK COUPLER TOOL

ATTREZZO di SGANCIAMENTO SPRING LOCK

 x1 pc

G6 - Ford

P/N **13.063**

 x1 pc

G8 - Ford

P/N **13.064**

 x1 pc

G6 - Opel

P/N **13.068**

 x1 pc

G8 - Opel

P/N **13.069**

 x1 pc

G10 - Ford

P/N **13.065**

 x1 pc

G12 - Ford

P/N **13.066**

 x1 pc

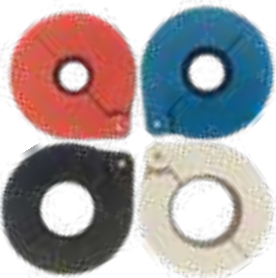
G10 - Opel

P/N **13.070**

 x1 pc

G12 - Opel

P/N **13.071**

 x1 pc

G6/8/10/12 - Ford

P/N **13.067**

 x1 pc

G6/8/10/12 - Opel

P/N **13.072**



SEALING WASHERS GUARNIZIONI COMPRESSORE

 x10 pcs



Short / Corto
Harrison

P/N **88.080/10**

 x10 pcs



Long / Lungo
Harrison

P/N **88.081/10**

 x10 pcs



ø 8 mm
ø 11,3 mm
GM

P/N **88.082/10**

 x10 pcs



ø 15 mm
ø 23,6 mm
GM

P/N **88.083/10**

 x10 pcs



ø 11 mm
ø 19,5 mm
GM

P/N **88.084/10**

 x10 pcs



ø 17 mm
ø 25,5 mm
GM

P/N **88.085/10**

 x10 pcs



5/8"
ø 15 mm
ø 28 mm
GM

P/N **88.086/10**

 x10 pcs



ø 15,2 mm
ø 29,6 mm
GM / Harrison

P/N **88.087/10**

 x10 pcs



ø 16,6 mm
ø 28 mm
GM / Harrison

P/N **88.088/10**

 x10 pcs



ø 15,7 mm
ø 33,5 mm
Harrison

P/N **88.089/10**

 x10 pcs



3/4"
ø 17,7 mm
ø 31,6 mm
GM

P/N **88.091/10**

 x10 pcs



ø 15,7 mm
ø 30 mm
GM / Harrison

P/N **88.122/10**

ORIFICE TUBES / VALVOLE a SIGARETTA

x10 pcs

blue / blu
Ford, Mazda, Nissan



P/N **88.050/10**

x10 pcs

grey / grigia
Audi, Toyota



P/N **88.051/10**

x10 pcs

yellow / gialla
Volvo



P/N **88.052/10**

x10 pcs

white, / bianca
Fiat, GM, Audi, Alfa Romeo



P/N **88.053/10**

x10 pcs

brown / marrone
Ford



P/N **88.054/10**

x10 pcs

black / nera
Opel, GM



P/N **88.055/10**

x10 pcs

purple / viola
Chrysler, Dodge, Eagle



P/N **88.056/10**

x10 pcs

orange / arancione
Ford, Dodge, Jeep, Hyundai



P/N **88.057/10**

x10 pcs

red / rossa
Ford, Mazda



P/N **88.058/10**

x10 pcs

green / verde
Ford, Jeep, Mazda, Chrysler



P/N **88.059/10**

ORIFICE TUBE KIT

(2 of each orifice tube / 2 di ogni valvola a sigaretta)

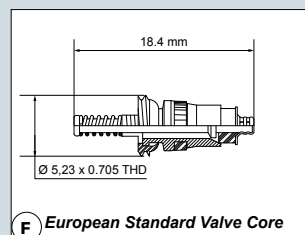
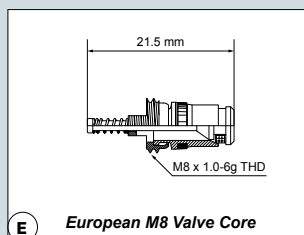
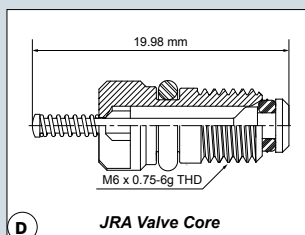
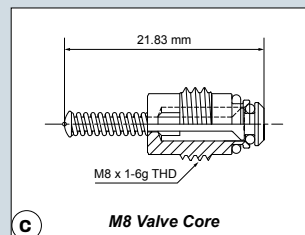
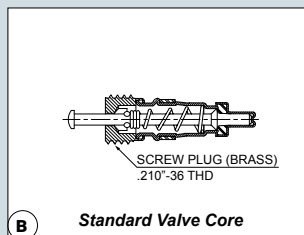
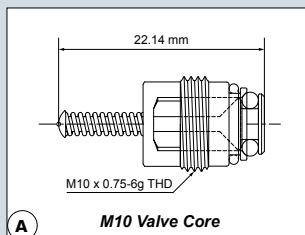


x1 pc - 20x29x5cm

P/N **88.200**

SCHRADER VALVE CORE / VALVOLINE A/C

technical
specifiche



x10 pcs



Type / Tipo: B
R12

P/N **88.012/10**

x10 pcs



Type / Tipo: E
Peugeot (R-134a)

P/N **88.022/10**

x10 pcs



Type / Tipo: D
Highflow

P/N **88.023/10**

x10 pcs



M6x1
Opel (R-134a)

P/N **88.039/10**

x10 pcs



Type / Tipo: C
PM (R-134a)

P/N **88.040/10**

x10 pcs



Type / Tipo: A
GM (R-134a)

P/N **88.041/10**

x10 pcs



Type / Tipo: F
Renault (R-134a)

P/N **88.270/10**

x10 pcs



M8x1
Audi/BMW (R-134a)

P/N **88.271/10**

x10 pcs



Type / Tipo: D
Hyundai/Kia

P/N **88.276/10**

x10 pcs



Type / Tipo: E
VW (R-134a)

P/N **88.241/10**

x10 pcs



Type / Tipo: B
PM (R-1234yf)

P/N **88.291/10**

x10 pcs



Type / Tipo: C
R-1234yf

P/N **88.292/10**

x10 pcs



Type / Tipo: A
R-1234yf

P/N **88.293/10**

x10 pcs



M8x1
R-1234yf

P/N **88.296/10**

x10 pcs



Type / Tipo: F
GM (R-1234yf)

P/N **88.298/10**

x10 pcs



Type / Tipo: D
R-1234yf

P/N **88.299/10**

R-1234yf

A/C VALVE CORE REMOVING TOOLS / ATTREZZI SVITAVALVOLE



Valve core removing tool / Attrezzo svitavalvole a spillo

P/N **13.051**



Valve core removing tool / Attrezzo svitavalvole a spillo

P/N **13.054**

Valve removing tool
with insert for HP and LP quick coupling
Estrattore valvole a spillo
con inserto per attacco attacco rapido AP e BP



x1 pc

P/N **13.053**

COMPRESSORS BEARINGS / CUSCINETTI COMPRESSORE

x1 pc



P/N **88.400**

Ø (int) 25 mm
Ø (est) 55 mm
thickness / spessore: 20 mm

P/N **88.401**

Ø (int) 40 mm
Ø (est) 62 mm
thickness / spessore: 24 mm

P/N **88.405**

Ø (int) 30 mm
Ø (est) 55 mm
thickness / spessore: 23 mm

HNBR O-RINGS KIT

KIT O-RING in HNBR



 **x1 pc** - 18x12x3cm

P/N **88.180**

SPECIAL SEALING GASKET KIT

KIT GUARNIZIONI SPECIALI



 **x1 pc** - 18x12x3cm

P/N **88.190**

SEALING WASHERS KIT

KIT DISTANZIALI



 **x1 pc** - 18x12x3cm

P/N **88.700**



VALVE CORE KIT KIT VALVOLINE



x1 pc - 18x12x3cm

P/N **88.205**

R-1234yf VALVE CORE and CAPS KIT KIT VALVOLINE e TAPPI per R-1234yf



x1 pc - 20x29x5cm

P/N **88.322**

SPRINGLOCK KIT



x1 pc - 20x29x5cm

P/N **88.904/1**

NATIONAL VEHICLES KIT KIT VETTURE NAZIONALI

FRENCH VEHICLES KIT KIT VETTURE FRANCESI



 **x1 pc** - 20x29x5cm

P/N

88.312

GERMAN VEHICLES KIT KIT VETTURE TEDESCHE



 **x1 pc** - 20x29x5cm

P/N

88.313

ASIAN VEHICLES KIT KIT VETTURE ASIATICHE



x1 pc - 20x29x5cm

P/N **88.314**

ITALIAN VEHICLES KIT KIT VETTURE ITALIANE



x1 pc - 20x29x5cm

P/N **88.315**

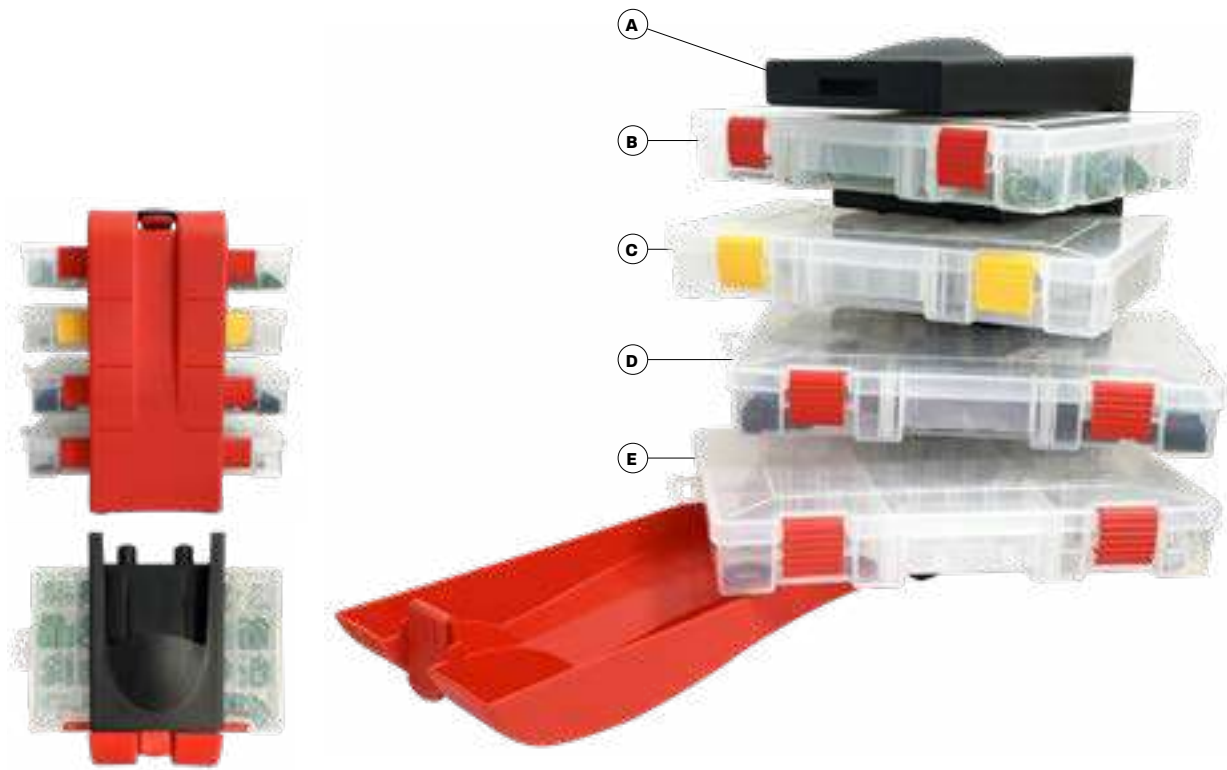
AMERICAN VEHICLES KIT KIT VETTURE AMERICANE



x1 pc - 20x29x5cm

P/N **88.316**

ORGANIZER KIT



x1 pc - 30x33x46cm

P/N 88.900

- A P/N 070.009S Organizer tower / Torretta organizer
- B P/N 88.901 HNRB O-Rings kit / Kit O-Ring in HNRB
- C P/N 88.902 Special sealing gasket kit / Kit guarnizioni speciali
- D P/N 88.903 Tools kit / Kit minuteria
- E P/N 88.904 Sealing washers kit / Kit distanziali

HNRB O-RINGS KIT
KIT O-RING in HNRB



x1 pc - 20x29x5cm

P/N 88.901

SPECIAL SEALING GASKET KIT KIT GUARNIZIONI SPECIALI



x1 pc - 20x29x5cm

P/N **88.902**

TOOLS KIT KIT MINUTERIA



x1 pc - 20x29x5cm

P/N **88.903**

SEALING WASHERS KIT KIT DISTANZIALI



x1 pc - 20x29x5cm

P/N **88.904**



**R-134a
R-1234yf**

analog, dry
analogico, a secco

Ø 80 mm - 1/8 NPT



P/N **13.623**



P/N **13.624**



**R-134a
R-1234yf**

analog, dry
analogico, a secco

Ø 80 mm - 1/8 NPT

Pressure gauges Manometri



**R-134a
R-1234yf**

analog, dry
analogico, a secco

Ø 80 mm

3x M1/4" SAE
(7/16-20UNF-2A)



P/N **13.032**

2-way manifold Gruppo manometrico a 2 vie



P/N **13.033**

4-way manifold Gruppo manometrico a 4 vie



**R-134a
R-1234yf**

analog, dry
analogico, a secco

Ø 80 mm

4x M1/4" SAE
(7/16-20UNF-2A)



2-way manifold kit Kit gruppo manometrico a 2 vie

R-134a ❄️

P/N 13.032K

2-way manifold gauge / Gruppo manometrico a 2 vie **P/N 13.032**

R-134a HP quick coupler with tap x M1/4" SAE (7/16-20UNF-2A) adapter **P/N 13.034**
Attacco rapido AP R-134a con rubinetto x adattatore M1/4" SAE (7/16-20UNF-2A)

R-134a LP quick coupler with tap x M1/4" SAE (7/16-20UNF-2A) adapter **P/N 13.035**
Attacco rapido BP R-134a con rubinetto x adattatore M1/4" SAE (7/16-20UNF-2A)

3x 1,8 mt (B,R,Y) hose / tubo - F1/4" SAE (7/16-20UNF-2B) x 45° F1/4" SAE (7/16-20UNF-2B) **P/N TB.0012K**

R-1234yf ❄️

P/N 13.032YFK

2-way manifold gauge / Gruppo manometrico a 2 vie **P/N 13.032**

R-1234yf HP quick coupler with tap x F12x1,5 adapter **P/N 13.080YF**
Attacco rapido AP R-1234yf con rubinetto x adattatore F12x1,5

R-1234yf LP quick coupler with tap x F12x1,5 adapter **P/N 13.081YF**
Attacco rapido BP R-1234yf con rubinetto x adattatore F12x1,5

2x 1,8 mt (B,R) hose / tubo - F1/4" SAE (7/16-20UNF-2B) x M12x1,5 **P/N /**
1x 1,8 mt (Y) hose / tubo - F1/4" SAE (7/16-20UNF-2B) x F1/4" SAE (7/16-20UNF-2B)

4-way manifold kit Kit gruppo manometrico a 4 vie



P/N 13.033K

❄️ **R-134a**

P/N 13.033

4-way manifold gauge / Gruppo manometrico a 4 vie

P/N 13.034

R-134a HP quick coupler with tap x M1/4" SAE (7/16-20UNF-2A) adapter
Attacco rapido AP R-134a con rubinetto x adattatore M1/4" SAE (7/16-20UNF-2A)

P/N 13.035

R-134a LP quick coupler with tap x M1/4" SAE (7/16-20UNF-2A) adapter
Attacco rapido BP R-134a con rubinetto x adattatore M1/4" SAE (7/16-20UNF-2A)

P/N TB.0012K

3x 1,8 mt (B,R,Y) hose / tubo - F1/4" SAE (7/16-20UNF-2B) x 45° F1/4" SAE (7/16-20UNF-2B)

P/N 13.033YFK

❄️ **R-1234yf**

P/N 13.033

4-way manifold gauge / Gruppo manometrico a 4 vie

P/N 13.080YF

R-1234yf HP quick coupler with tap x F12x1,5 adapter
Attacco rapido AP R-1234yf con rubinetto x adattatore F12x1,5

P/N 13.081YF

R-1234yf LP quick coupler with tap x F12x1,5 adapter
Attacco rapido BP R-1234yf con rubinetto x adattatore F12x1,5

P/N /

2x 1,8 mt (B,R) hose / tubo - F1/4" SAE (7/16-20UNF-2B) x M12x1,5
1x 1,8 mt (Y) hose / tubo - F1/4" SAE (7/16-20UNF-2B) x F1/4" SAE (7/16-20UNF-2B)

recovery-recycle / recupero-riciclo



Recovery unit Recuperatore

Sparkless ignition proof

Refrigerant gas and oil **recovery/recycle**

A prova di accensione senza scintilla
Recupero/riciclo gas e olio refrigeranti



R-134a *
R-1234yf

3/4HP

* complete list / elenco completo:

Category / Categoria A: **R12, R134a, R401C, R406A, R500, R1234yf**
Category / Categoria B: **R22, R401A, R401B, R402B, R407C, R407D, R408A, R409A, R411A, R411B, R412A, R502, R509**
Category / Categoria C: **R402A, R404A, R407A, R407B, R410A, R507, R32**

P/N **12.621V**

Supplied with / In dotazione

P/N **13.124Y**

1,5 m yellow hose - F/F1/4" SAE (7/16-20UNF-2B)

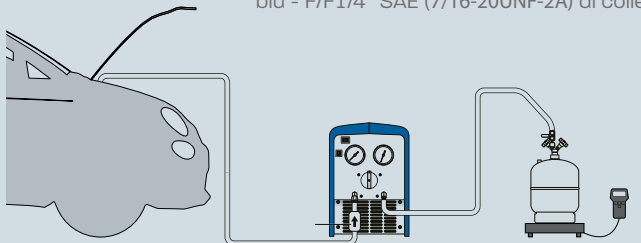
Tubo giallo 1,5 m - F/F1/4" SAE (7/16-20UNF-2B)

P/N

/

Filter drier ø 50 mm - M/M1/4" SAE (7/16-20UNF-2A) with blue hose - F/F1/4" SAE (7/16-20UNF-2A) for connection to recovery unit.

Filtro disidratatore ø 50 mm - M/M1/4" SAE (7/16-20UNF-2A) con tubo blu - F/F1/4" SAE (7/16-20UNF-2A) di collegamento al recuperatore.



Refrigerant recovery / Recupero refrigerante →

You might also be interested in
Ti potrebbe interessare anche



P/N **12.031**

Electronic **scale**
Bilancia elettronica

0 ~ 100 Kg

Vacuum pump Pompa del vuoto

P/N 12.613

42 L/min

1/4 HP

P/N 12.612

70 L/min

1/3 HP

P/N 12.614

170 L/min

3/4 HP



**DUAL STAGE
BISTADIO**



R-134a

R-1234yf



P/N 12.604

Solenoid and vacuum gauge Elettrovalvola e vacuometro

for all models / per tutti i modelli

vacuum
vuoto



P/N 20.3003

V. ISO 32

Net content **1 liter**

x12 pcs - 33x28x25cm



P/N 20.2003

V. ISO 46

Net content **1 liter**

x12 pcs - 33x28x25cm



P/N 20.4003

V. ISO 68

Net content **1 liter**

x12 pcs - 33x28x25cm

**lubricants
for
VACUUM
PUMPS**

**lubrificanti
per
POMPE da
VUOTO**

Power Freeze

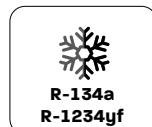
A/C enhancer

Power Freeze and CONCENTRATED Power Freeze

increase the fluidity of the oil, reduce energy consumption and improve the efficiency of the refrigeration system, bringing the system back to high performance levels.

Power Freeze e CONCENTRATED Power Freeze

aumentano la fluidità dell'olio, diminuiscono il consumo energetico e migliorano l'efficienza del sistema refrigerante, riportando l'impianto ad alti livelli prestazionali.



P/N **11.124**

Power Freeze

Net content **30 ml**

x10 pcs - 27x22x21cm

P/N **11.124K**

Power Freeze

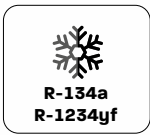
+adapter:
1x 11.800/60P

P/N **11.124YFK**

Power Freeze

+adapter:
1x 11.800/60YF

Refrigerant quantity Quantità refrigerante	Power Freeze
--> 1 Kg	30 ml (1 syringe / siringa)
1 Kg --> 3 Kg	60 ml (2 syringes / siringhe)



P/N **11.129**

CONCENTRATED Power Freeze

Net content **6 ml**

x10 pcs - 21x16x19cm

P/N **11.129K**

CONC. Power Freeze

+adapter:
1x 11.800/60P

P/N **11.129YFK**

CONC. Power Freeze

+adapter:
1x 11.800/60YF

Refrigerant quantity Quantità refrigerante	CONCENTRATED Power Freeze
→ 1 Kg	6 ml (1 syringe / siringa)
1 Kg → 3 Kg	12 ml (2 syringes / siringhe)

Syringe ADAPTERS

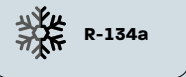
ADATTATORI per siringa



A. R-134a

B. Chek valve / valvola di non-ritorno

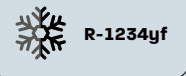
P/N **11.800/60P**



A. R-1234yf

B. Chek valve / valvola di non-ritorno

P/N **11.800/60YF**



P/N **12.021**

Digital **pen thermometer** with probe
Termometro digitale **a penna** con sonda

	°C / °F
1.5Vdc	t(°C): -50 ~ +300 t(°F): -58 ~ +572
Auto-off Autospegnimento	+/-1°C (-20°C~+80°C)

P/N **12.026**

Digital **thermometer** with probe
Termometro digitale con sonda

	°C / °F
1.5Vdc	t(°C): -50 ~ +300 t(°F): -58 ~ +572
90 cm Cable lenght Lunghezza cavo	+/-1°C (-20°C~+80°C)

P/N **12.022**

Infrared **thermometer**
Termometro a raggi infrarossi

	Operating T. / T. funzionamento °C (0 ~ +50) / °F (+32 ~ +122)
1.5Vdc	Storage T. / T. stoccaggio °C (-20 ~ +60) / °F (-4 ~ +140)
(D:S) 13:1	Op. Humidity / Umidità. funz. 10 ~ 95% RH
IR t(°C): -50 ~ +550 IR t(°F): -58 ~ +1022	St. Humidity / Umidità. stoc. ≤80% RH

P/N **12.028**

Digital **thermo hygrometer**
Termoigrometro digitale

	°C / °F
1.5Vdc	t(°C) IN: -30 ~ +50 t(°F) IN: -22 ~ +122
Humidity / Umidità 20~99%	t(°C) OUT: -50~+70 t(°F) OUT: -58 ~ +158



P/N **13.752**

Ozon generator
Ozonizzatore

Spare parts
Parti di ricambio



P/N **13.752/1**

Ozon plate
Piastra di Ozono



ACTIVE OXYGEN / OSSIGENO ATTIVO
4000 mg/h

202 x 148 x H 150
mm

DC 12V

POWER CONSUMPTION / CONSUMO ENERGETICO
40W

2,0 Kg

AC110-230V
50-60Hz

AIR VOLUME / VOLUME ARIA
max 80 CFM (2.24 m3/min)

Refills / Ricariche

P/N **13.703L**

120 ml - lavender / lavanda

x12 pcs - 21x16x19cm

P/N **13.703M**

120 ml - musk / muschio

x12 pcs - 21x16x19cm

P/N **13.703P**

120 ml - pine / pino

x12 pcs - 21x16x19cm



P/N **13.703**

Nebulizer
Nebulizzatore



NOISE LEVEL / LIVELLO RUMORE
≤ 70 dBA

285 x 210 x H 130
mm

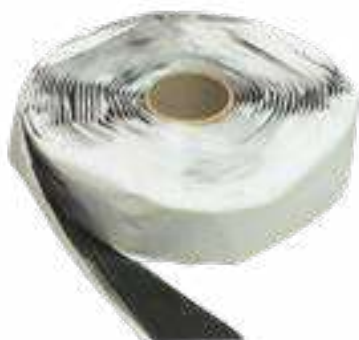
230V
50-60Hz +/-10%

ATOMIZED LIQUID / LIQUIDO NEBULIZZATO
+/- 500 ml/h

3,1 Kg

ABSORBED CURRENT / CORRENTE ASSORBITA
0,15 Amps

x1 pc



Length / Lunghezza: 9,15 m
Width / Larghezza: 50 mm
Thickness / Spessore: 5 mm

P/N 11.038SP

Tar cork tape Rotolo di prestite

x1 pc



Length / Lunghezza: 15 m
Width / Larghezza: 50 mm
Thickness / Spessore: 3 mm

P/N 11.037

Anti condensation tape Rotolo anti condensa

HYDRAULIC CRIMPING TOOL

with a complete set of inserts sizes
#6, #8, #10 and #12

CRIMPATRICE IDRAULICA

con un set completo di inserti di misura
#6, #8, #10 e #12

x1 pc



P/N 13.075

x1 pc



P/N 13.052

Hose cutter (for rubber hoses) Taglia-tubi (per tubi in gomma)

x1 pc



8, 9, 10, 12, 14, 15
fins per inch / alette per pollice

P/N 13.050

Fin straightener Pettine per alette

not only air conditioning



P/N **77.008**

FAP/DPF cleaning KIT

KIT pulizia FAP/DPF

 **x1 pc** - 30x33x46cm

P/N **77.007**

+

P/N **77.003**

+

P/N **77.004**P/N **77.007**

DISPENSER

EROGATORE

P/N **77.003**

WASHING liquid

Liquido di

LAVAGGIO

Net content **5 liters**

 **x2 pcs** - 34x20x28cm

P/N **77.004**

RINSE liquid

Liquido di

RISCIACQUO

Net content **5 liters**

 **x2 pcs** - 34x20x28cm

EGR VALVE
cleaner
Pulitore
VALVOLE EGR



P/N **11.320**

SPRAY

Net content **400 ml**

x12 pcs - 27x21x21cm



P/N **11.316**

SPRAY

Net content **500 ml**

x12 pcs - 27x21x25cm

THROTTLE BODY
cleaner
Pulitore **CORPI**
FARFALLATI

AUTOMATIC GEARBOXES washing liquid
Liquido lavaggio **CAMBI AUTOMATICI**



P/N **11.310**

Net content **1 liter**

x12 pcs - 33x28x28cm

ZSYSTEM SRL

Via dei Ronchi, 17
35127 Padova (PD)
Tel: +39 049 7800314
Email: info@zsystemsrl.it
Web: www.zsystemsrl.it

CRAVEDI SPA Sede e Magazzino Centrale

Viale della Repubblica 4/C
31020 Fontane di Villorba (TV)
Tel: +39 0422 696711
Email: info@cravedispa.it
Web: www.cravedispa.it

FILIALE DI BELLUNO

Via Tiziano Vecellio, 121
32100 Belluno (BL)
Tel: +39 0437 30325
Email: belluno@cravedispa.it

FILIALE DI SAN FIOR

Via P. Amalteo, 1
31020 San Fior (TV)
Tel: +39 0438 260094
Email: sanfior@cravedispa.it

FILIALE DI MOGLIANO V.TO

Via Giotto, 9 – Z.I. S.P.Z.
31021 Mogliano Veneto (TV)
Tel: +39 041 457362
Email: mogliano@cravedispa.it

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Email: verona@cravedispa.it

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46045 Marmirolo, (MN)
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