

We ensure that systems work better.

VULKAN

Solutions for refrigeration and air conditioning technology

Service Equipment

For servicing refrigeration and air conditioning systems

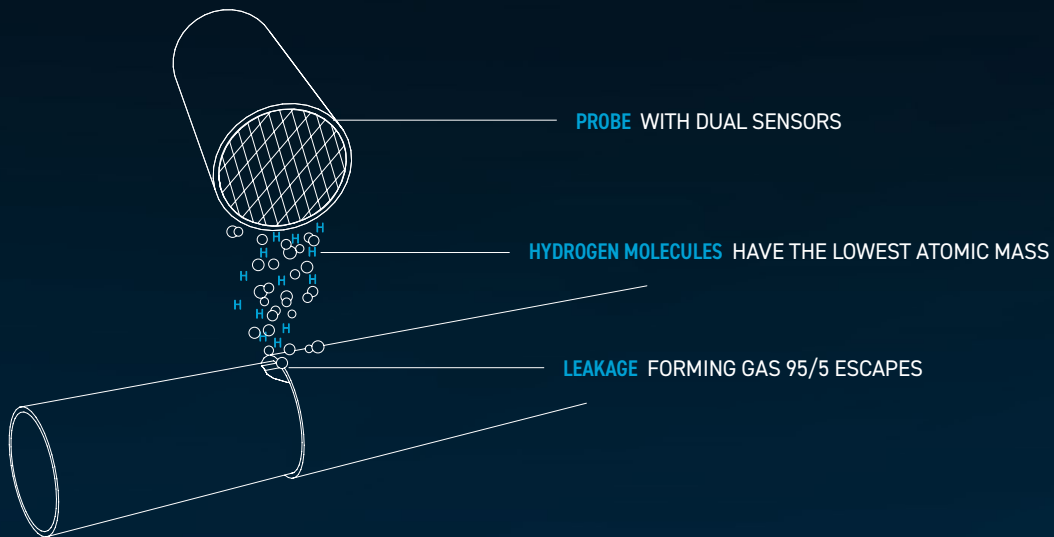


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LEAK DETECTION

TRACE GAS LEAK DETECTION



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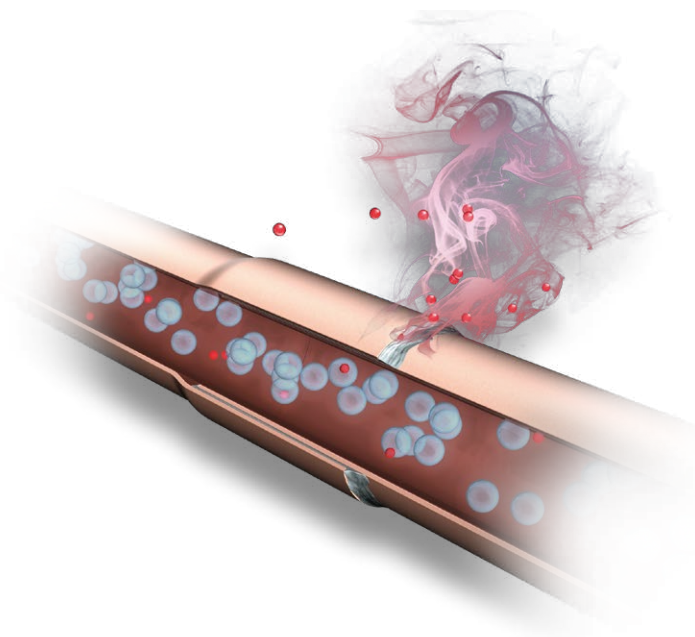
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FIND THE LEAK!

THE LEAK DETECTION TECHNOLOGY DEVELOPED FOR THE INDUSTRY IS PERFECTLY TAILORED TO SERVICING APPLICATIONS, AND THEREFORE GUARANTEES LEGALLY COMPLIANT, FAST, RELIABLE AND SIMPLE LEAK DETECTION.

FOR LEAK DETECTION, the empty air conditioning system is charged with forming gas 95/5 consisting of 95 percent nitrogen and 5 percent hydrogen. Forming gas 95/5 is non-flammable, non-toxic, non-corrosive and not harmful to the environment. Hydrogen molecules have the smallest atomic mass of all the elements and can escape due to even

the smallest leak. With the aid of hydrogen leak detectors LOKTRACER TLD.500 and LOKTRACER TLD.1000, very small leakages can therefore be detected. The leak detectors react almost exclusively to hydrogen. There are therefore hardly any cross sensitivities.



LOKTRACE IN COMPARISON TO CONVENTIONAL LEAK DETECTION METHODS

| | LOKTRACE | UV dye | Electronic refrigerant leak detectors | Nitrogen and leak detection spray |
|------------------------------------|----------|--------|---------------------------------------|-----------------------------------|
| Compliance with legal requirements | ✓ | ✗ | ✗ | ✓ |
| Direct operability | ✓ | ✗ | ✓ | ✓ |
| Detects the smallest leakages | ✓ | ✗ | ✓ | ✗ |
| Reliability | ✓ | ✓ | ✗ | ✓ |

MULTI GAS LEAK DETECTOR

MULTI GAS LEAK DETECTOR FOR INDUSTRIAL LEAK DETECTION (HFC, HFO, R32, R600a, R290, H₂ TRACER GAS)



Mobile, industrial leak detector. The high flexibility of the LOKATOR VL20 allows for use with different refrigerants and for H₂ tracer gas with the same probe. The unit is the perfect tool for quick and accurate leak location whatever the gas to be detected.

The simple and easy to use LOKATOR VL20 is designed for small or medium size production lines of refrigeration and A/C units. Its main advantage is to very quickly find even fine leaks. The operator can set two alarm levels or select one manually. The unit gives a clear visual and audible alarm indication as soon as the leak level is exceeded. Maintenance can be done easily on-site within a few seconds.

- ⊕ Shock-proof housing.
- ⊕ Intuitive interface on a 4 line LCD.
- ⊕ Easy maintenance and calibration.
- ⊕ Visual indication of leaks, degassing, saturation and ambient contamination.
- ⊕ Permanent self-checking of power supply, probes and connections.
- ⊕ Automatic zeroing with compensation of ambient contamination.
- ⊕ Audible indication of leaks.

NOTE: The base unit comes without probe and without probe cable. Please select those articles from the following tables.

| Article no. | Article name | Description |
|-------------|-----------------|-------------|
| L14004337 | LOKATOR VL20-BU | Base unit |

Technical data

| | |
|------------------------|-----------------------------------------|
| Warm-up time: | 180 sec. |
| Reaction time: | 1 sec. |
| Operating temperature: | 10 °C - 40 °C |
| Power supply: | Rechargeable battery (9 V - 1.5 A max.) |
| Battery life: | 4 hours |
| L x H x D in mm: | 220 x 220 x 80 |
| Weight: | 550 g |

PROBE



- ⊕ Suitable for HFC, HFO, R600a, R290, H₂ tracer gas.
- ⊕ Plug and play.
- ⊕ Red LED indicates a leak.
- ⊕ Probe consists of detection block with universal sensor and sniffing pipe.

| Article no. | Article name | Description |
|-------------|--------------------|-----------------|
| L14004341 | LOKATOR VL20-CSU-U | Universal probe |

Technical data

| | |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Sensitivity: | 0.5 g/yr for HFC and HFO 0.5 g /yr for R600a and R290 1x10 ⁻⁵ cc/s for H ₂ /N ₂ or 1 g/yr R134a equivalent |
| Sniffing pipe: | Flexible (130 mm) |

Also available separately

| Article no. | Article name | Description |
|-------------|-------------------|---------------------------------------|
| L14004343 | LOKATOR VL20-DB-U | Detection block with universal sensor |
| L14004344 | LOKATOR VL20-SP13 | Sniffing pipe |



PROBE CABLE



Cable for connecting the base unit to the probe.

| Article no. | Article name | Description |
|-------------|-------------------------|---------------------|
| L14004342 | LOKATOR VL20-C2P6B-2.5M | Probe cable (2.5 m) |

MULTI GAS LEAK DETECTOR

MULTI GAS LEAK DETECTOR FOR INDUSTRIAL LEAK DETECTION (HFC, HFO, R32, R600a, R290, H₂ TRACER GAS)



Efficient and robust industrial leak detector with intuitive user interface suitable for refrigerant gases and H₂ tracer gas. The base unit can be equipped with different probes and cables to perfectly match your application.

The LOKATOR VL30 is designed for quick and highly accurate leak detection on high-productivity production lines, such as manufacturing of domestic refrigerators, heat pumps or A/C split units. The unit gives a clear indication of the leak size and it allows an easy maintenance on-site within a few seconds.

- ⊕ Shock-proof housing.
- ⊕ Intuitive interface on a 4 line LCD.
- ⊕ Easy maintenance and calibration.
- ⊕ Visual indication of leaks, degassing, saturation and ambient contamination.
- ⊕ Permanent self-checking of power supply, probes and connections.
- ⊕ Automatic zeroing with compensation of ambient contamination.
- ⊕ Audible indication of leaks with adjustable volume.

NOTE: The base unit comes without probe and without probe cable. Please select those articles from the following tables.

| Article no. | Article name | Description |
|-------------|-----------------|-------------|
| L14004338 | LOKATOR VL30-BU | Base unit |

Technical data

| | |
|------------------------|---------------------------------|
| Warm-up time: | 180 sec. |
| Reaction time: | 1 sec. |
| Operating temperature: | 10 °C – 40 °C |
| Interface DB9: | Logical signal output 0 V – 5 V |
| Power supply: | 110 V-250 V, 50/60 Hz |
| Power consumption: | 50 W |
| L x H x D in mm: | 300 x 150 x 200 |
| Weight: | Approx. 3.5 kg |



REFRIGERANT PROBE / HYDROGEN PROBE



- ① Selective (only hydrogen probe).
- ② Plug and play.
- ③ Red LED indicates a leak.
- ④ Probe consists of suction block, sniffing pipe and sensor cell.

| Article no. | Article name | Description |
|-------------|------------------------|-------------------|
| L14004346 | LOKATOR VL30-CSU-REF ① | Refrigerant probe |
| L14004311 | LOKATOR VL30-CSU-H2 ② | Hydrogen probe |

Technical data

| | |
|----------------------------------|--------------------------------------------------------|
| Sensitivity (refrigerant probe): | 0.5 g/yr for R290, HFC, HFO and 0.05 g/yr for R600a |
| Sensitivity (hydrogen probe): | 3x10 ⁻⁶ cc/s or 0.3 g/yr R134a equivalent |
| Sniffing pipe: | Semi rigid (150 mm) |

Also available separately

| Article no. | Article name | Description |
|-------------|---------------------|-------------------------|
| L14004332 | LOKATOR VL30-SB | Suction block |
| L14004348 | LOKATOR VL30-SRSP13 | Sniffing pipe |
| L14004334 | LOKATOR VL30-C-REF | Refrigerant sensor cell |
| L14004333 | LOKATOR VL30-C-H2 | Hydrogen sensor cell |

PROBE CABLE



Cable for connecting the base unit to the probe.

| Article no. | Article name | Description |
|-------------|-------------------------|---------------------|
| L14004336 | LOKATOR VL30-C2P6B-2.5M | Probe cable (2.5 m) |
| L14004347 | LOKATOR VL30-C2P6B-5M | Probe cable (5 m) |

HYDROGEN LEAK DETECTOR

HYDROGEN LEAK DETECTOR



- ⊕ Developed especially for refrigeration and air conditioning technology.
- ⊕ Made in Germany.
- ⊕ Effective hydrogen leak detector thanks to unique dual sensors.
- ⊕ Very low cross sensitivity to external gases.
- ⊕ Incremental approximation of major leaks (zero tracking).
- ⊕ Automatic sensor cleaning.
- ⊕ No pump or filter due to diffusion technology.
- ⊕ Integrated LED light.
- ⊕ Acoustic and optical alarm.

| Article no. | Article name |
|-------------|-------------------|
| L13005099 | LOKTRACER TLD.500 |

| Technical data | |
|----------------------|------------------------|
| Time to operability: | < 60 s |
| Reaction time: | 1 to 2 s |
| Operating time: | Approx. 5 h |
| Power supply: | Rechargeable batteries |

| Also available separately | | |
|---------------------------|--------------|---------------|
| Article no. | Article name | Description |
| L14004043 | PA-TLD.500 | Mains charger |

HYDROGEN LEAK DETECTOR WITH LEAKAGE RATE DISPLAY



Additional performance features compared to LOKTRACER TLD.500:

- ⊕ Robust aluminium housing.
- ⊕ Lit LCD display.
- ⊕ Recovery pump enables leak detection even through floor screed and foam.
- ⊕ Swift, safe leak detection through "Search Mode".
- ⊕ ppm measurement of leak rate through "Analysis Mode".

| Article no. | Article name |
|-------------|--------------------|
| L13005244 | LOKTRACER TLD.1000 |

Technical data

| | |
|----------------------|-------------|
| Time to operability: | < 60 s |
| Reaction time: | 1 to 2 s |
| Operating time: | Approx. 5 h |
| Power supply: | Batteries |

Also available separately

| Article no. | Article name | Description |
|-------------|--------------|---------------|
| L14004385 | PA-TLD.1000 | Mains charger |

TRACE GAS LEAK DETECTION KITS

CARRY CASE KIT FOR TRACE GAS LEAK DETECTION IN VEHICLE AIR CONDITIONING SYSTEMS



- ⊕ Complete kit for trace gas leak detection in vehicle air conditioning systems, in a robust carry case.
- ⊕ Pressure reducer connection: W21,8-14 with left-handed thread.

| Article no. | Article name | Description |
|-------------|--------------------|------------------------|
| L13005139 | LOKBOX TG-AUTO-500 | With LOKTRACER TLD.500 |

Also available separately

| Article no. | Article name | Description |
|-------------|-------------------|-----------------------------------|
| L14003951 | PR-TG.10 W21,8-14 | 10 bar (150 psi) pressure reducer |
| L13005015 | PA-1/LT.10 | Manifold gauge 10 bar (150 psi) |
| L13004971 | HDS-A-G+G-3000-Y | Charging hose |
| L13002909 | HDS-J-G+G-3000-Y | Charging hose |
| L14002502 | QC-134a-BM | Low pressure quick-coupler |
| L14002503 | QC-134a-RM | High pressure quick-coupler |

CYLINDER TROLLEY KIT FOR TRACE GAS LEAK DETECTION IN VEHICLE AIR CONDITIONING SYSTEMS



- ⊕ Complete kit for trace gas leak detection in vehicle air conditioning systems.
- ⊕ The cylinder trolley is suitable for standard 10 l or 20 l gas cylinders.
- ⊕ The gas cylinder pictured is not included.
- ⊕ Pressure reducer connection: W21,8-14 with left-handed thread.

| Article no. | Article name | Description |
|-------------|--------------------------|------------------------|
| L13005004 | LOKTRACE KA-500 W21,8-14 | With LOKTRACER TLD.500 |

Also available separately

| Article no. | Article name | Description |
|-------------|-------------------|-----------------------------------|
| L14003939 | CT.10/20 | Cylinder trolley |
| L14003951 | PR-TG.10 W21,8-14 | 10 bar (150 psi) pressure reducer |
| L13005015 | PA-1/LT.10 | Manifold gauge 10 bar (150 psi) |
| L13004971 | HDS-A-G+G-3000-Y | Charging hose |
| L13002909 | HDS-J-G+G-3000-Y | Charging hose |
| L14002502 | QC-134a-BM | Low pressure quick-coupler |
| L14002503 | QC-134a-RM | High pressure quick-coupler |
| L14003969 | LOKTRACE KA.DC | Dust cover |

QUICK-COUPLER FOR HFO-1234YF



- ⊕ Enables the connection of LOKTRACE leak detection kits in vehicle air conditioning systems with the refrigerant HFO-1234yf.
- ⊕ An A-1234 fitting is also required to connect to the charging hose of the LOKTRACE leak detection kit.
- ⊕ Tested according to SAE J2888 (1234yf).
- ⊕ Connection: M12 x 1,5.

| Article no. | Article name | Description |
|-------------|--------------|-----------------------------|
| L14004188 | QC-1234YF-BF | Low pressure quick-coupler |
| L14004187 | QC-1234YF-RF | High pressure quick-coupler |

FITTING M12X1,5 M - 1/4" SAE M



To connect LOKTRACE leak detection kit charging hoses with quick-couplers for HFO-1234yf.

| Article no. | Article name |
|-------------|--------------|
| L14004189 | A-1234 |

CARRY CASE KIT FOR TRACE GAS LEAK DETECTION IN REFRIGERATION AND AIR CONDITIONING SYSTEMS



- ⊕ Complete kit for trace gas leak detection in refrigeration and air conditioning systems, in a robust carry case.
- ⊕ Pressure reducer connection: W21,8-14 LH with left-handed thread.

| Article no. | Article name | Description |
|-------------|---------------------|-------------------------|
| L13005038 | LOKBOX TG-HVAC-500 | With LOKTRACER TLD.500 |
| L13004643 | LOKBOX TG-HVAC-1000 | With LOKTRACER TLD.1000 |

Also available separately

| Article no. | Article name | Description |
|-------------|------------------|-----------------------------------|
| L14003411 | PR-H2.50 | 50 bar (750 psi) pressure reducer |
| L13005037 | PA-1/LT.50 | Manifold gauge 50 bar (750 psi) |
| L13004971 | HDS-A-G+G-3000-Y | Charging hose |
| L13002909 | HDS-J-G+G-3000-Y | Charging hose |

REFRIGERANT LEAK DETECTOR

ELECTRONIC REFRIGERANT LEAK DETECTOR



LOKATOR RLD5



- ⊕ Suitable for HC, PFC and HFC refrigerants.
- ⊕ Made in Germany.
- ⊕ Sensitivity ≤ 1 g/year (in accordance with EN14624, SAEJ1627 and E85-22).
- ⊕ Incremental approximation of major leaks (zero tracking).
- ⊕ Automatic sensor cleaning.
- ⊕ No pump or filter due to diffusion technology.
- ⊕ Integrated LED light.
- ⊕ Acoustic and optical alarm.
- ⊕ Conforms to EC regulations 1516/2007 and DIN 378.

| Article no. | Article name |
|-------------|--------------|
| L13005243 | LOKATOR RLD5 |

Technical data

| | |
|----------------------|------------------------|
| Time to operability: | < 60 s |
| Reaction time: | 1 to 2 s |
| Operating time: | Approx. 5 h |
| Power supply: | Rechargeable batteries |

Also available separately

| Article no. | Article name | Description |
|-------------|--------------|---------------|
| L14004043 | PA-TLD.500 | Mains charger |

NITROGEN PRESSURE TESTING

NITROGEN PRESSURE REDUCER 10 bar (150 psi)



Pressure reducer for carrying out pressure testing up to 10 bar (150 psi) in refrigeration and air conditioning systems.

| Article no. | Article name | Description |
|-------------|--------------|--------------------------------------------|
| L1400039 | PR-N2.10 | Nitrogen pressure reducer 10 bar (150 psi) |

LEAK DETECTION SPRAY



- ⊕ For the detection of leaks in tube lines under pressure.
- ⊕ Non-flammable, anti-corrosive, tolerated by the skin.
- ⊕ DIN-DVGW tested.

| Article no. | Article name | Contents |
|-------------|--------------|----------|
| L14000823 | LS-400 | 400 ml |

RECOVERY, EVACUATION, CHARGING

VACUUM METER



VACUUM METER V80

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RECOVERY UNITS

COMPACT RECOVERY UNIT



- ⊕ World's smallest, fully adequate recovery unit for all common, non-flammable refrigerants (excluding NH₃).
- ⊕ Safety pressure limiter with automatic reset function.
- ⊕ Simple 2-valve control.
- ⊕ Oil-free compressor for the disposal of liquid and gaseous refrigerants.
- ⊕ Integrated dirt filter.

| Article no. | Article name |
|-------------|--------------|
| L14004102 | RG3000E |

| Technical data | |
|------------------------------|-------------------------------------|
| Recovery capacity (gaseous): | 7 kg/h (15.4 lbs/h) |
| Recovery capacity (liquid): | 40 kg/h (88.2 lbs/h) |
| Connections: | 1/4" SAE |
| Safety pressure limiter: | 38 bar (550 psi) |
| Pressures in: | bar and psi |
| Power supply: | 220/240 V – 50/60 Hz |
| L x H x D in mm (inch): | 310 x 235 x 175 (12.2 x 9.25 x 6.9) |
| Weight: | 8 kg (17.64 lbs) |

RECOVERY UNITS



- ⊕ Compact recovery unit for all common, non-flammable refrigerants (excluding NH₃).
- ⊕ Made in USA.
- ⊕ Oil-free 1/2 PS compressor.
- ⊕ Switches off automatically after process ends.
- ⊕ With „Technical Inspection Association-type“ test.

| Article no. | Article name |
|-------------|------------------|
| L14003138 | RG-69000-220 TÜV |

| Technical data | |
|------------------------------|--------------------------------|
| Recovery capacity (gaseous): | 30 kg/h (66.14 lbs/h) |
| Recovery capacity (liquid): | 84 kg/h (185.2 lbs/h) |
| Connections: | 1/4" SAE |
| Safety pressure limiter: | 38 bar (550 psi) |
| Pressures in: | bar and psi |
| Power supply: | 220/240 V – 50/60 Hz |
| L x H x D in mm (inch): | 432 x 254 x 305 (17 x 10 x 12) |
| Weight: | 16 kg (2.2 lbs) |

VACUUM PUMP STATIONS

VACUUM PUMP STATION WITH VACUUM PUMP RD.2D



- ⊕ For the evacuation and charging of refrigerant circuits.
- ⊕ 2-stage vacuum pump RD.2D (35 l/min).
- ⊕ Gauge with 80 mm (3.15") diameter.
- ⊕ Compartment for refrigerant scales.
- ⊕ 2 charging hoses 1.5 m (39.4").

| Article no. | Article name | Low pressure gauge | High pressure gauge |
|-------------|---------------------------|--------------------|---------------------|
| L13001863 | VPS-RD.2D/MN-01/MH-01/V80 | R600a | R600a |
| L13005316 | VPS-RD.2D/MN-11/MH-11/V80 | R290, R600a | R290, R600a |

| Article no. | Article name | Low pressure gauge | High pressure gauge |
|-------------|---------------------------|--------------------|---------------------|
| L13001851 | VPS-RD.2D/MN-01/MN-07/V80 | R600a | R134a |

Technical data

| | |
|-------------------------|--------------------------------------|
| Power supply: | 220/240 V – 50/60 Hz |
| L x H x D in mm (inch): | 345 x 265 x 360 (13.6 x 10.4 x 14.2) |
| Weight: | 12.2 kg (26.9 lbs) |

VACUUM PUMP STATION WITH VACUUM PUMP DIP-402



- ⊕ For the evacuation and charging of refrigerant circuits.
- ⊕ 2-stage vacuum pump DIP-402 (80 l/min).
- ⊕ Gauge with 80 mm (3.15") diameter.
- ⊕ Compartment for refrigerant scales.
- ⊕ 2 charging hoses 1.5 m (39.4").

| Article no. | Article name | Low pressure gauge | High pressure gauge |
|-------------|-----------------------------|--------------------|---------------------|
| L13005289 | VPS-DIP-402/MN-11/MH-11/V80 | R290, R600a | R290, R600a |

Technical data

| | |
|-------------------------|----------------------------------------|
| Power supply: | 220/240 V – 50/60 Hz |
| L x H x D in mm (inch): | 430 x 270 x 360 (16.93 x 10.6 x 14.17) |
| Weight: | 18.5 kg (40.78 lbs) |

VACUUM PUMPS

VACUUM PUMP RD.2D



Has a gas ballast valve and thermal overload protection.

| Article no. | Article name |
|-------------|--------------|
| L14002963 | RD.2D |

Technical data

| | |
|-------------------------|--------------------------------------|
| Capacity: | 35 l/min |
| Final partial pressure: | 0.01 mbar (0.15 psi) |
| Connection power: | 120 Watt |
| Power supply: | 220/240 V – 50/60 Hz |
| L x H x D in mm (inch): | 247 x 110 x 210 (9.72 x 4.33 x 8.27) |
| Weight: | 6 kg (13.23 lbs) |

VACUUM PUMP DIP-402



Has a gas ballast valve and thermal overload protection.

| Article no. | Article name |
|-------------|--------------|
| L14001731 | DIP-402 |

Technical data

| | |
|-------------------------|---------------------------------------|
| Capacity: | 80 l/min |
| Final partial pressure: | 0.01 mbar (0.15 psi) |
| Connection power: | 300 Watt |
| Power supply: | 220/240 V – 50/60 Hz |
| L x H x D in mm (inch): | 285 x 150 x 260 (11.22 x 5.9 x 10.24) |
| Weight: | 10 kg (22.05 lbs) |

MINERAL VACUUM PUMP OIL



1 litre mineral vacuum pump oil.

| Article no. | Article name | For vacuum pumps |
|-------------|--------------|------------------|
| L13003161 | M032 | RD.2D |
| L14000010 | M068 | DIP-402 |

MANIFOLD GAUGES

1-VALVE MANIFOLD GAUGES



Gauge with 80 mm (3.15") diameter.

| Article no. | Article name | For refrigerant |
|-------------|--------------|-----------------|
| L13002106 | PA-1/MN-01 | R600a |

2-VALVE MANIFOLD GAUGES



Gauges with 80 mm (3.15") diameter.

| Article no. | Article name | For refrigerant |
|-------------|------------------|-----------------|
| L13001562 | PA-2/MN-01/MH-01 | R600a |

BASIC BODY FOR 1-VALVE MANIFOLD GAUGE



Basic body for a manifold gauge.

| Article no. | Article name | Description |
|-------------|--------------|------------------------------------------|
| L14000837 | PA-1/H/GK | Basic body for 1-valve manifold gauge HD |

BASIC BODY FOR 2-VALVE MANIFOLD GAUGE



Basic body for manifold gauges.

| Article no. | Article name | Description |
|-------------|--------------|---------------------------------------|
| L14000833 | PA-2/GK | Basic body for 2-valve manifold gauge |

BASIC BODY FOR 5-VALVE MANIFOLD GAUGE



Basic body for manifold gauges.

| Article no. | Article name | Description |
|-------------|--------------|---------------------------------------|
| L14000835 | PA-5/GK | Basic body for 5-valve manifold gauge |

COMPLETE DIAPHRAGM SET FOR MANIFOLD GAUGES



Consists of:

- ⊕ Diaphragm.
- ⊕ Spring.
- ⊕ Brass head.
- ⊕ Brass ring.

| Article no. | Article name |
|-------------|--------------|
| L14000137 | WK-G03 |

DIAPHRAGM SET FOR MANIFOLD GAUGES



| Article no. | Article name |
|-------------|--------------|
| L14000274 | WK-G04 |

VALVE SET FOR MANIFOLD GAUGES



| Article no. | Article name | Description |
|-------------|--------------|-------------|
| L14000493 | WK-07H | HIGH |
| L14000494 | WK-07L | LOW |
| L14000272 | WK-07R | REF |
| L14000492 | WK-07V | VAC |

GAUGES & VACUUM METERS

LOW PRESSURE GAUGE



- ⊕ Adjustable and vibration-free.
- ⊕ Diameter 80 mm (3.15").
- ⊕ Connection thread 1/8" NPT.

| Article no. | Article name | For refrigerant | Scale [bar] | Scale [psi] |
|-------------|--------------|-----------------|---------------|---------------|
| L14000690 | MN-01 | R600a | -1 to 3 | -14.5 to 42 |
| L14000696 | MN-07 | R134a | -1 to 10 | -14.5 to 140 |
| L14002928 | MN-11 | R290, R600a | -1 to 10 | -14.5 to 140 |

HIGH PRESSURE GAUGE



- ⊕ Adjustable and vibration-free.
- ⊕ Diameter 80 mm (3.15").
- ⊕ Connection thread 1/8" NPT.

| Article no. | Article name | For refrigerant | Scale [bar] | Scale [psi] |
|-------------|--------------|-----------------|---------------|---------------|
| L14000697 | MH-01 | R600a | -1 to 10 | -14.5 to 140 |
| L14000703 | MH-07 | R134a | -1 to 30 | -14.5 to 450 |
| L14002929 | MH-11 | R290, R600a | -1 to 30 | -14.5 to 430 |

VACUUM METER



- ⊕ Precision scale from 0 to 1000 mbar.
- ⊕ Diameter 80 mm (3.15").
- ⊕ Connection thread 1/8" NPT.

| Article no. | Article name |
|-------------|--------------|
| L14000704 | V80 |

DIGITAL VACUUM METER



- ⊕ For simple and precise vacuum metering between 0 mbar and 16 mbar.
- ⊕ Trend display (rising or sinking pressure) where there is more than 16 mbar.
- ⊕ Auto switch off after 10 minutes, if the measurement value is greater than 16 mbar.
- ⊕ Delivered in a robust plastic case.

Article no. Article name

L14001096 VG64

Technical data

| | |
|---------------------------------------|-------------------------------------------------------------------------------------------------------|
| Measuring range: | 0 to 16 mbar (0 to 12000 Microns) |
| Resolution: | 0.001 mbar (where measurement value < 0.260 mbar) 1 micron (where measurement value < 200 microns) |
| Accuracy: | ± 10 % (where measurement value < 1000 microns) |
| Display updates: | 2 x per second |
| Units: | [micron], [psi], [inHg], [mbar] [Pascal], [torr], [mTorr] |
| Overpressure protection: | Up to 20 bar (290 psi) |
| Connections: | 1/4" SAE |
| Working temperature: | 2 °C to 52 °C (35 °F to 125 °F) |
| Power supply: | 1 x 9 V alkaline battery (not included) |
| Operation time: | Approx. 35 h |
| Dimensions, vacuum meter (L x W x H): | 140 x 76 x 32 mm (5.51" x 2.99" x 1.26") |
| Weight, vacuum meter: | 190 g (6.7 oz) |

CHARGING DEVICE

CHARGING DEVICE



Portable charging device for precise charging of refrigerant circuits.



| Article no. | Article name |
|-------------|---------------------------|
| L13005734* | LOKBOX FE charging device |

Also available separately

| Article no. | Article name | Description |
|-------------|---------------|------------------------------|
| L14000009 | 16-C | Quick-coupler |
| L13005321 | EV-600a | Extraction valve |
| L13000953 | FE-600a-SK | PVC hose - 1.1 m (3.61") |
| L13000950 | FE-600a-ESK | Discharge hose - 5 m (16.4") |
| L14000244 | 121/T-VK | Ball valve |
| L13001971 | HDS-A-G+G-260 | Charging hose |
| L14000131 | NRV-6 | Non-return valve |
| L13001521 | HFFB-1 | Holder for liquid charging |

*Suitable refrigerant cartridges can be found on page 31.

DIGITAL SCALES

DIGITAL SCALES



- ⊕ For the exact determination of refrigerant removal amounts or refrigerant charging amounts.
- ⊕ Robust weighing platform with overload protection.
- ⊕ Separate operating and display unit with large display.
- ⊕ Saves last weight display.
- ⊕ Easy adjustment through integrated spirit level.
- ⊕ USB connection.
- ⊕ Delivered in a robust plastic case.

Article no. Article name

L14001836 SC 98210

Technical data

| | |
|----------------------------|----------------------------------|
| Weighing range: | 110 kg (242.51 lbs) |
| Resolution: | 0.01 kg (0.02 lbs) |
| Weight units: | [kg], [lbs], [oz] |
| Accuracy: | ± 0.01 kg, ± 0.01 lbs, ± 0.16 oz |
| Working temperature range: | 0 °C to 49 °C (32 °F to 120 °F) |
| Platform size: | 220 x 220 mm (8.66" x 8.66") |
| Power supply: | 9 V alkaline battery |

CHARGING HOSES

CHARGING HOSE: 1/4" SAE CONNECTIONS (STRAIGHT)



Connections

- ⊕ 1/4" SAE F straight with valve opener.
- ⊕ 1/4" SAE F straight.

| Article no. | Article name | Description |
|-------------|-----------------|--------------|
| L13002285 | HDS-A-G+G-600-B | 600 mm, blue |
| L13002286 | HDS-A-G+G-600-R | 600 mm, red |

CHARGING HOSE: 1/4" SAE CONNECTIONS (1 X STRAIGHT, 1 X 45°)



Connections

- ⊕ 1/4" SAE F with 45° elbow and valve opener.
- ⊕ 1/4" SAE F straight.

| Article no. | Article name | Description |
|-------------|------------------|-----------------|
| L13002023 | HDS-A-G+W-1500-B | 1500 mm, blue |
| L13002024 | HDS-A-G+W-1500-R | 1500 mm, red |
| L13002154 | HDS-A-G+W-1500-Y | 1500 mm, yellow |
| L13002114 | HDS-A-G+W-1800-B | 1800 mm, blue |
| L13002115 | HDS-A-G+W-1800-R | 1800 mm, red |
| L13002116 | HDS-A-G+W-1800-Y | 1800 mm, yellow |

CHARGING HOSE ACCESSORIES

BALL VALVE



SYMBOLIC IMAGE

| Article no. | Article name | Thread |
|-------------|--------------|----------------------------|
| L14000447 | 121-RG-4 | 1/4" SAE M x 1/4" SAE F |
| | | |
| | | |

REPLACEMENT SEALS MADE OF PLASTIC



| Article no. | Article name |
|-------------|--------------|
| L14001360 | KD-1/4" |
| L14001361 | KD-3/8" |
| | |
| | |

VALVE OPENER



| Article no. | Article name |
|-------------|--------------|
| L14000575 | D19302 |
| | |
| | |

VALVE CORE



| Article no. | Article name |
|-------------|--------------|
| L14000113 | E-6200a |
| | |
| | |

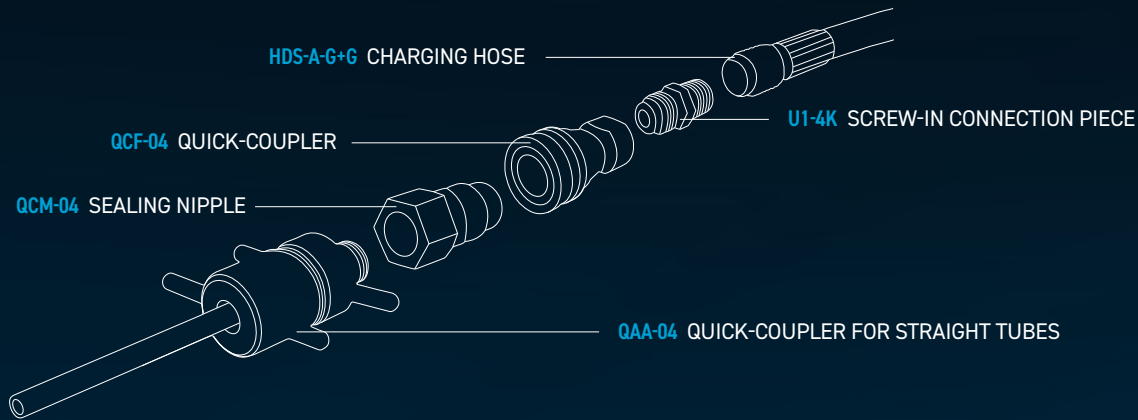
VALVE CORE REMOVER WITH 3 VALVE CORES



| Article no. | Article name |
|-------------|--------------|
| L14000013 | E-6200 |
| | |
| | |

QUICK-COUPPLERS

QUICK-COUPLER SYSTEM



QUICK-COUPERS

1234YF QUICK-COUPLER, CONNECTION M12 X 1.5



- ⌚ Enables the connection of LOKTRACE leak detection kits in vehicle air conditioning systems with the refrigerant HFO-1234yf.
- ⌚ An A-1234 fitting is also required to connect to the charging hose of the LOKTRACE leak detection kit.
- ⌚ Tested according to SAE J2888 (1234yf).
- ⌚ Connection: M12 x 1,5.

| Article no. | Article name | Description |
|-------------|--------------|-----------------------------|
| L14004188 | QC-1234YF-BF | Low pressure quick-coupler |
| L14004187 | QC-1234yf-RF | High pressure quick-coupler |

R134a QUICK-COUPERS



- ⌚ Connection 1/4" SAE M.
- ⌚ Tested according to SAE J497 (R134a).

| Article no. | Article name | Description |
|-------------|--------------|-----------------------------|
| L14002502 | QC-134A-BM | Low pressure quick-coupler |
| L14002503 | QC-134a-RM | High pressure quick-coupler |

R134a QUICK-COUPERS



- ⌚ Connection M14 x 1,5.
- ⌚ Tested according to SAE J497 (R134a).

| Article no. | Article name | Description |
|-------------|--------------|-----------------------------|
| L14002484 | QC-134a-RF | High pressure quick-coupler |

EXTENSION FOR R134a HIGH PRESSURE SERVICE PORT



To extend high pressure service ports that are difficult to access e.g. for BMW E60 (5 Series), Volvo S80 and some Ford models.

| Article no. | Article name |
|-------------|--------------|
| L14002876 | QC-134A |

QUICK-COUPLERS

QUICK-COUPLER FOR SCHRADER VALVES



- ⊕ To open Schrader valves without a loss of refrigerant.
- ⊕ When the quick-coupler is removed, the hose is sealed by the valve.
- ⊕ No valve opener is required in the end of the hose.
- ⊕ Quick-coupler 27-C is suitable for R410A.

| Article no. | Article name | Description |
|-------------|--------------|------------------------|
| L1400009 | 16-C | 1/4" SAE M, straight |
| L1400053 | 17-C | 1/4" SAE M, 90° angle |
| L14002678 | 27-C | 5/16" SAE M, 90° angle |

Available separately

| | | |
|-----------|---------|-------------------------------|
| L14000264 | OR-16C | O-Ring for 16-C and 17-C |
| L14000265 | 16-C/D | Seal for 16-C and 17-C |
| L14002926 | OR-26C | O-Ring for 26-C and 27-C |
| L14002927 | 26-C/D | Seal for 26-C and 27-C |
| L14002925 | 26-C/RM | Knurled nut for 26-C and 27-C |

QUICK-COUPLER FOR STRAIGHT TUBES



- ⊕ For clamping straight tubes.
- ⊕ Seals at tube intersection and around entire tube circumference.
- ⊕ Suitable for pressure tests and evacuation as well as refrigerant charging.

| Article no. | Article name | For ø |
|-------------|----------------|----------------|
| L14001655 | PCV-600-2-HNBR | 6 mm |
| L14001849 | PCV-630-2-HNBR | 6,35 mm (1/4") |

Technical data

| | |
|-----------------------------|-----------------------------------|
| Vacuum-tight | Up to 0.013 mbar (10 micron) |
| Pressure resistant | Up to 45 bar (650 psi) |
| Working temperature | -20 °C to 80 °C (-4 °F to 176 °F) |
| Minimum tube length | 19 mm (3/4") |
| Minimum tube wall thickness | 0.8 mm (0.03") |

QUICK-COUPLER FOR STRAIGHT TUBES



- ⊕ For clamping straight tubes.
- ⊕ Seals around entire tube circumference.
- ⊕ Ensures maximum flow when flushing air conditioning systems.
- ⊕ Suitable for pressure tests and evacuation as well as refrigerant charging.

| Article no. | Article name | For ø |
|-------------|--------------|----------------|
| L13002869 | SK-40-2 | 2 mm |
| L13001369 | SK-40-5 | 5 mm |
| L13001368 | SK-40-6 | 6 mm |
| L13001406 | SK-40-6,35 | 6.35 mm (1/4") |
| L13001431 | SK-40-8 | 8 mm (5/16") |
| L13001312 | SK-40-10 | 10 mm |

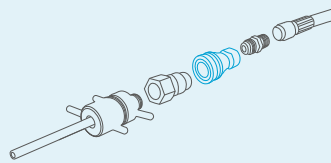
Technical data

| | |
|--------------------|------------------------------|
| Vacuum-tight | Up to 0.013 mbar (10 micron) |
| Pressure resistant | Up to 52 bar (754 psi) |

QUICK-COUPLER FOR SEAL NIPPLE QCM



Anvil with internal thread.

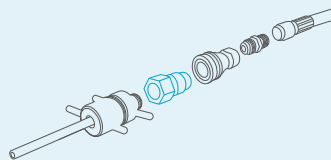


| Article no. | Article name | Connection |
|-------------|--------------|------------|
| L14000045 | QCF-04 | 1/4" NPT F |
| L14001808 | QCF-04-H.NBR | Rc 1/4" |

SEAL NIPPLE FOR QUICK-COUPLER QCF

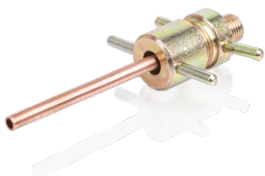


Connection adapter.

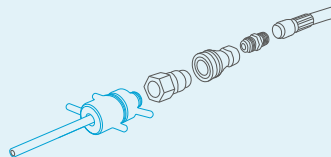


| Article no. | Article name | Connection |
|-------------|--------------|------------|
| L14000046 | QCM-04 | 1/4" NPT F |
| L14001795 | QCM-04-H.NBR | Rc 1/4" |

QUICK-COUPLER FOR STRAIGHT TUBES



The two adapters have the same structure, but differ in the quick-coupler inserts and seals used.



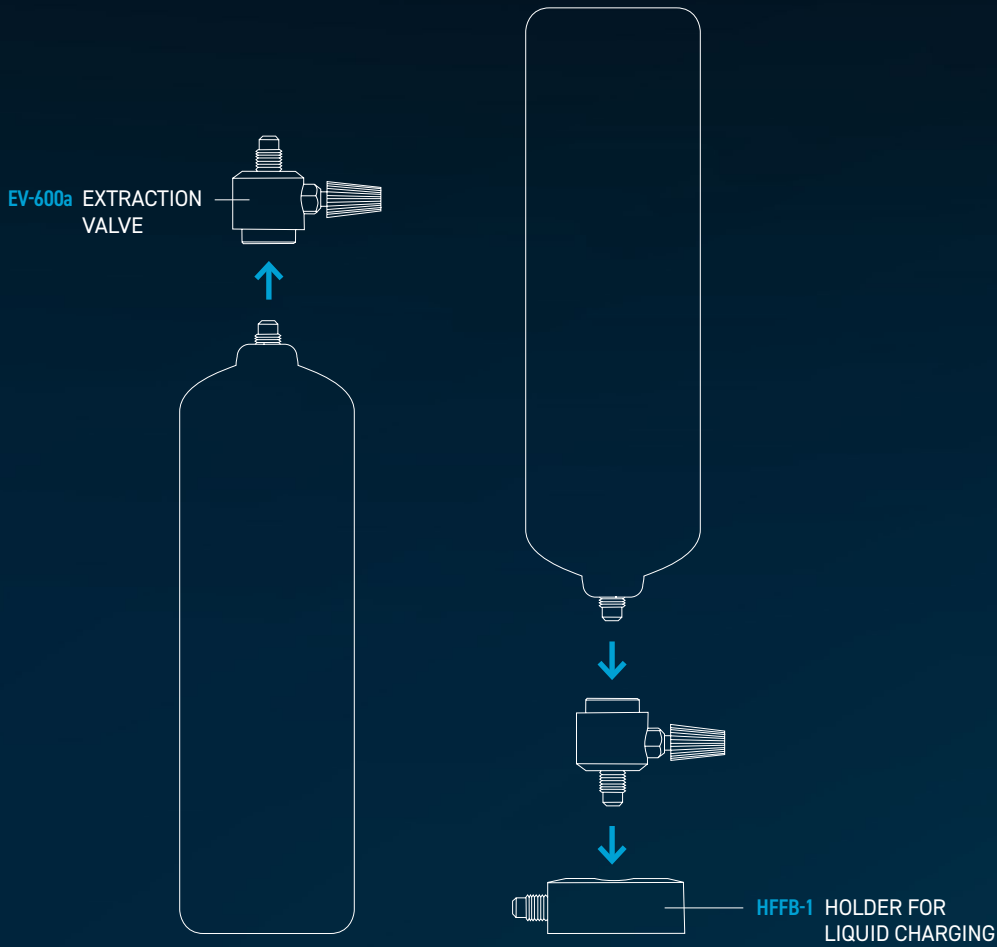
| Article no. | Article name | For ϕ |
|-------------|--------------|------------|
| L14000030 | QAA-04 | 6 mm |

Available separately

| | | |
|-----------|--------|----------------------|
| L14000082 | QAI-04 | Quick-coupler insert |
| L14000028 | QAI-05 | Quick-coupler insert |
| L14000083 | QAG-04 | Seal |
| L14000021 | QAG-05 | Seal |

REFRIGERANTS

RECOVERY



REFRIGERANTS

R290 REFRIGERANT CARTRIDGE



| Article no. | Article name | Contents |
|-------------|--------------|---------------------|
| L14004254 | REF-R290-03* | 370 g (13.05 oz) |

*NOTE: Cartridge does not fit into the carrying case of LOKBOX FE (L13005734).

R600a REFRIGERANT CARTRIDGE



| Article no. | Article name | Contents |
|-------------|--------------|---------------------|
| L14000125 | REF-R600a** | 420 g (14.82 oz) |

**NOTE: Cartridge fits into the carrying case of LOKBOX FE (L13005734).

EXTRACTION VALVE FOR R290 CARTRIDGES



| Article no. | Article name |
|-------------|--------------|
| L14004255 | EV-290-03 |

EXTRACTION VALVE FOR R600a CARTRIDGES



| Article no. | Article name |
|-------------|--------------|
| L13005321 | EV-600a |

HOLDER FOR LIQUID CHARGING



| Article no. | Article name |
|-------------|--------------|
| L13001521 | HFFB-1 |

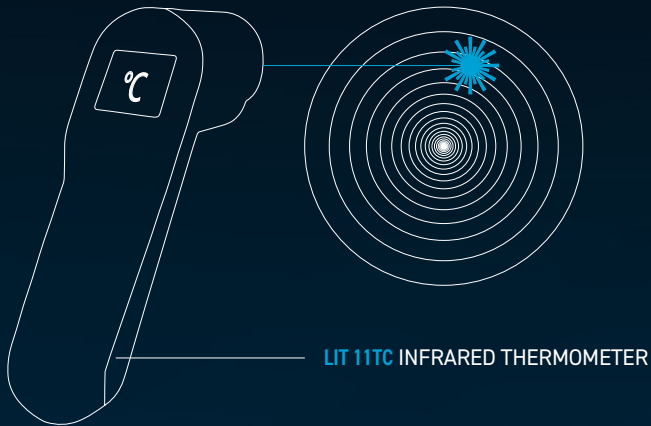
ADAPTER FOR NON-FLAMMABLE REFRIGERANT



| Article no. | Article name | Connections |
|-------------|--------------|----------------------|
| L14000689 | W21,8-14 | W21,8-14 x 1/4" SAEM |

MEASUREMENT AND DIAGNOSTIC DEVICES

INFRARED THERMOMETER



PAGE 33 INFRARED THERMOMETER

PAGE 34 DIGITAL QUICK RESPONSE THERMOMETER

PAGE 35 PROBE

PAGE 35 TEMPERATURE LOGGER

INFRARED THERMOMETER

INFRARED THERMOMETER



- ⊕ For precise, non-contact temperature measurement on non-reflective surfaces.
- ⊕ With additional K-type thermocouple.

| Article no. | Article name |
|-------------------------------------------|------------------------------------------|
| L14002969 | LIT 11TC |
| Technical data | |
| Optical resolution: | 11:1 |
| Temperature range: | -60 °C to 500 °C (-76 °F to 932 °F) |
| Resolution: | 0.1 °C (0.1 °F) |
| Accuracy: | ± 1 °C (1.8 °F) |
| Emission coefficient: | 0.95 adjustable |
| K-type thermocouple: | Yes (probe included) |
| Probes included in the temperature range: | 14 °C to 250 °C (57 °F to 482 °F) |
| Total temperature range: | -64 °C to 1400 °C (-83 °F to 2552 °F) |
| Temperature accuracy: | ± 1% or 2 °C (3.6 °F) |
| Display: | LCD, lit |
| Automatic switch off: | Yes |
| Power supply: | 2 x AA batteries (included) |
| Weight: | 179 g (6.31 oz) |
| Dimensions: | 175 x 39 x 71 mm (6.89" x 1.54" x 2.80") |

DIGITAL QUICK RESPONSE THERMOMETER

DIGITAL QUICK RESPONSE THERMOMETER



Digital quick response thermometer, freely combinable with the probes shown on the right.

- ⊕ Digital quick response thermometer.
- ⊕ Alkaline battery 9 V.

| Article no. | L14000527 | L14000817 |
|-------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Article name | GTH-1150 | GTH-1160 |
| Technical data | | |
| Probe (not included): | 1 | 1 |
| Number of measuring ranges: | 1 | 2 |
| Measuring range 1: | -50 °C to 1150 °C | -50 °C to 1150 °C |
| Measuring range 2: | – | -50 °C to 199.9 °C |
| Accuracy of measuring range 1: | ± 1.0%: 20 °C to 550 °C; 920 °C to 1150 °C ± 1.5%: 550 °C to 920 °C | ± 1.0%: 20 °C to 550 °C; 920 °C to 1150 °C ± 1.5%: 550 °C to 920 °C |
| Accuracy of measuring range 2: | – | ± 1.0%: 20 °C to 199 °C |
| Resolution of measuring range 1: | 1 °C | 1 °C |
| Resolution of measuring range 2: | – | 0,1 °C |
| Temperature difference measurement: | No | No |
| Working temperature: | 0 °C to 45 °C (32 °F to 113 °F) | 0 °C to 45 °C (32 °F to 113 °F) |
| Power supply: | 1 x 9 V alkaline battery | 1 x 9 V alkaline battery |
| Dimensions (L x W x H): | 106 x 67 x 30 mm (4.17" x 2.64" x 1.18") | 106 x 67 x 30 mm (4.17" x 2.64" x 1.18") |
| Weight (including battery): | 150 g (5.29 oz) | 150 g (5.29 oz) |

CARRY CASE KIT INCLUDES PROBE



- ⊕ Digital quick response thermometer.
- ⊕ Probe GTF-300 GS.
- ⊕ Alkaline battery 9 V.
- ⊕ Plastic carry case.

| Article no. | Article name | Description |
|-------------|--------------|-------------------------------|
| L13001858 | K GTH-1160 | Carry case kit includes probe |

PROBE AND TEMPERATURE LOGGER

PROBE FOR DIGITAL QUICK RESPONSE THERMOMETER



| Article no. | Article name |
|-------------|--------------|
| L14001898 | GOF 500 |

Technical data

| | |
|----------------------|------------------------------------------|
| Measuring range: | -265 °C to 500 °C (-445 °F to 932 °F) |
| Area of application: | Gases, liquids and solid surfaces |
| Length: | 1 m (3.28") |

PROBE FOR DIGITAL QUICK RESPONSE THERMOMETER



| Article no. | Article name |
|-------------|--------------|
| L14000889 | GTF-300 GS |

Technical data

| | |
|----------------------|------------------------------------------|
| Measuring range: | -65 °C to 400 °C (-85 °F to 752 °F) |
| Area of application: | Gases, solid surfaces (not just liquids) |
| Length: | 1 m (3.28") |

TEMPERATURE LOGGER



Standalone USB-based mini-data logger for measurements in critical climatic conditions.

Performance features

- ⊕ Delayed start or recording review via a push button.
- ⊕ Temperature alarm with optical display on request.
- ⊕ User can select stop when memory is full, or memory roll-over for continuous recording.
- ⊕ Real-time monitoring.
- ⊕ USB connection.
- ⊕ Windows compatible software.

Scope of supply

- ⊕ SL 300 T temperature logger.
- ⊕ Windows-based software compatible with 98SE, ME, 2000, XP, VISTA 32-bit Version (not compatible with Windows 95, NT, VISTA 64-bit Version, Windows 7 and Windows 10).
- ⊕ USB connection cable.
- ⊕ 3 V alkaline batteries.

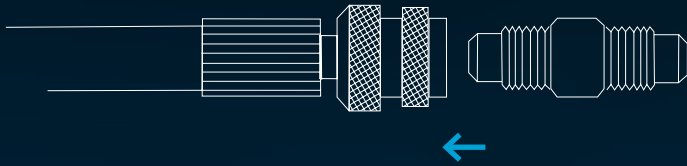
| Article no. | Article name | Description |
|-------------|--------------|--------------------|
| L14003035 | SL 300 T | Temperature logger |

Technical data

| | |
|------------------------------|-----------------------------------------------|
| Measuring points: | 44,344 |
| Sampling rate: | 1 second to 18 hours |
| Alarm: | Over and under-range alarm |
| Temperature measuring range: | -40 °C to 85 °C (-40 °F to 185 °F) |
| Temperature accuracy: | ± 0.5 °C (1 °F) |
| Temperature resolution: | 0.01 °C (0.02 °F) |
| Calibration: | One-point offset calibration through software |
| Time Accuracy: | ± 100 ppm at 24 °C (75.2 °F) |
| Dimensions (L x W x H): | 76 x 40 x 15 mm (2.99" x 1.57" x 0.59") |
| Power supply: | 3 V lithium battery (CR 2035) |
| Battery lifespan: | Approx. 6 years |

FITTINGS

FITTINGS



FITTINGS

SCREW-IN CONNECTION PIECE



| Article no. | Article name | Connections |
|-------------|--------------|-------------------------|
| L14000047 | U2-4 | 1/4" SAE M - 1/4" SAE M |
| | | |

SCREW-ON CONNECTION PIECE



| Article no. | Article name | Connections |
|-------------|--------------|----------------------|
| L12002418 | U1-7K | Rc 1/4" - 1/4" SAE M |
| | | |

ELBOW CONNECTORS



| Article no. | Article name | Connections |
|-------------|--------------|-------------------------|
| L14000300 | ES4-66 | 3/8" SAE F - 3/8" SAE M |
| | | |

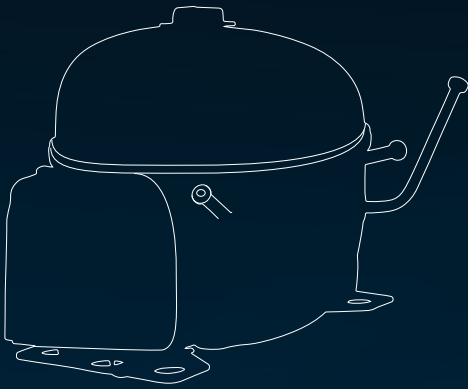
SLEEVES



| Article no. | Article name | Connections |
|-------------|--------------|-------------------------|
| L14000445 | U4-4 | 1/4" SAE F - 1/4" SAE F |
| | | |

COMPRESSORS

COMPRESSOR



PAGE 39 R600a COMPRESSORS

PAGE 39 COMPRESSOR PRESSURE TESTING DEVICE

COMPRESSORS AND COMPRESSOR PRESSURE TESTING DEVICE

R600a COMPRESSORS



- ⊕ For refrigeration and freezer devices.
- ⊕ Complete with all electrical parts as well as rubber feet and humidifier tray.
- ⊕ The compressors are compatible with other types of compressors (see compatibility chart).
- ⊕ Power supply: 220/240 V, 50 Hz.
- ⊕ The compatibility list was created based on the manufacturer information. We therefore recommend that only the compressors specified are used; and exclude all liability for consequential damages where any other compressors are used.

| Article no. | L14000485 | L14000483 | L14000482 |
|--------------|-------------|-------------|-------------|
| Article name | C-R600a-1/4 | C-R600a-1/6 | C-R600a-1/8 |

Technical data

| | | | |
|---------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| PS: | 1/4 | 1/6 | 1/8 |
| Refrigeration capacity kcal/h: | 100 | 116 | 104 |
| Refrigeration capacity watts: | 233 | 135 | 121 |
| Volumetric delivery cm ³ : | 14.28 | 7.96 | 7.23 |
| Nom. power consumption watts: | 175.0 | 102.0 | 91.0 |
| Dimensions L x W x D mm (inch): | 220 x 250 x 180 (8.66 x 9.84 x 7.09) | 180 x 220 x 150 (7.09 x 8.66 x 5.91) | 170 x 230 x 150 (6.69 x 9.06 x 5.91) |
| Weight kg (lbs): | 10.7 (23.6) | 7.7 (17.0) | 7.1 (15.7) |

Compatible with

| | | | |
|------------|--------------|---------------------------------|----------------------|
| Aspera | NBM1118Y | BPK1111Y | BPK1084Y |
| Danfoss | NLE15K/NL15K | TLES9K/TLS9K | TLES7K/TLS7K |
| Elektrolux | HP16AH | HL99AH/HL99AA/ HL90AH/HL90AA | HL70AH/HL70AA/HL67AH |
| Matsushita | | | SD65E |
| Embraco | | EMI40CEP/EMI40CSC | EMI30CEP/EMI30CSC |

COMPRESSOR PRESSURE TESTING DEVICE



To check the performance of compressors.

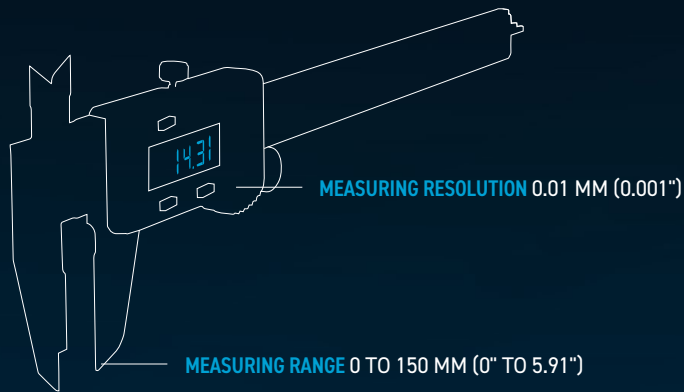
Scope of supply

- ⊕ Pressure vessel with gauge (16 bar, filled with glycerine).
- ⊕ adjustable safety valve.
- ⊕ Charging hose NFS-A-G+W-1500-B.
- ⊕ Case.

| Article no. | Article name |
|-------------|--------------|
| L13002291 | KP-DG |

USEFUL ACCESSORIES

DIGITAL CALIPER



USEFUL ACCESSORIES

FLARING TOOL



- ⊕ For easy and fast expansion of soft copper, aluminium or brass tubes with metric or imperial diameters.
- ⊕ Suitable for tube outer diameters of 5 to 16 mm (3/16" to 5/8").

| Article no. | Article name |
|-------------|--------------|
| L14002017 | VRC2.D |

COLD RATCHET



Cold ratchet with usable spanners on both sides for 9/16" and 1/2" hexagon heads and 1/4" and 3/16" squares.

| Article no. | Article name |
|-------------|--------------|
| L14001251 | KN-70081 |

USEFUL ACCESSORIES

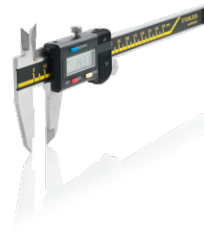
COOLING SPRAY



In spray cans, for testing thermostats up to -50 °C (-58 °F).

| Article no. | Article name | Contents |
|-------------|--------------|----------|
| L14000311 | BR-400 | 400 ml |

DIGITAL CALIPER



Measuring range: 0 to 150 mm (0" to 5.91") Measurement units: Metric/ imperial.

| Article no. | Article name |
|-------------|--------------|
| L14003948 | DGMS 150 |

REPAIR KIT



For sealing aluminium evaporators. Temperature resistant from -35 °C to 120 °C (-31 °F to 248 °F) and pressure resistant up to 84 N/mm².

| Article no. | Article name | Contents |
|-------------|--------------|-------------|
| L14000688 | AL-115 | 57 g (2 oz) |

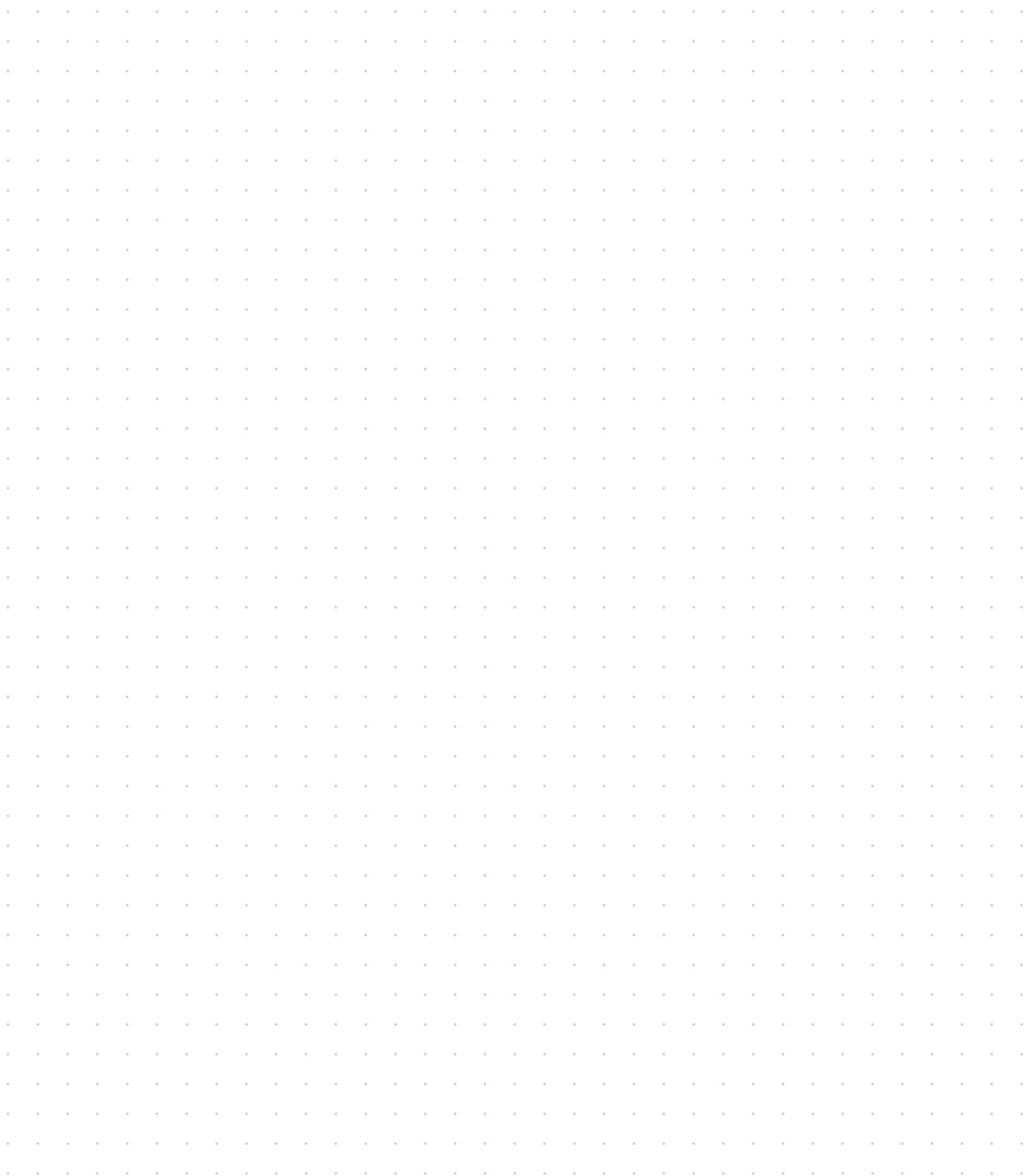
FIN COMB SET



For smoothing and cleaning of evaporator and condenser fins.

| Article no. | Article name |
|-------------|--------------|
| L14001031 | FCR6 |

NOTES



ONLINE-SERVICE

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VALIDITY CLAUSE

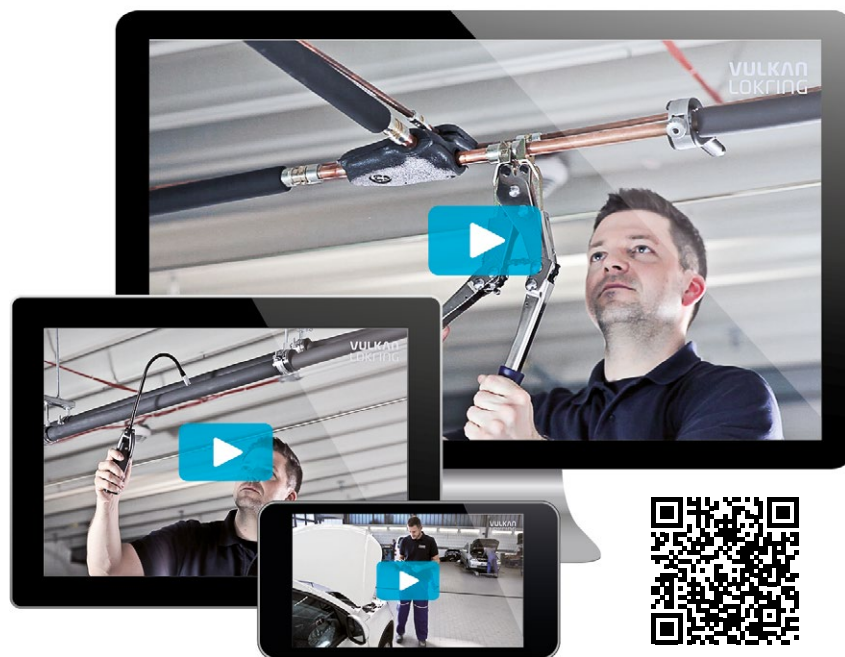
The LOKRING® tube connection technology represents a proven method of producing hermetically sealed metal-to-metal tube connections. The LOKRING® tube connections are mainly used in the refrigeration and air conditioning industries. The use of LOKRING® tube connection technology in other fields is to be discussed with VULKAN. VULKAN as the supplier is responsible for the qualitative delivery of the tube connections and tools which are ordered from this catalogue.

The purchaser is responsible for the use of the LOKRING® tube connections and tools as directed. The assembly has to be done accordingly to the instructions and exclusively with original LOKRING® parts. The present Service Equipment catalogue shall replace all previous editions, any previous printings shall no longer be valid. The data contained in this catalogue refers to the valid state of affairs in time of the copy deadline. Any changes due to technical progress are reserved.

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