



HVAC/R SERVICE PRODUCTS

SELECTION 2025

Acknowledged globally

BRAND STORY

*Acknowledged globally –
trusted by professionals
worldwide*



REFCO production site in Hitzkirch, Switzerland.

Swiss precision and global reach: REFCO's legacy since 1972

For over 50 years, REFCO has been setting benchmarks as a global leader in premium tools and components for professional refrigeration and air conditioning technicians.

Serving North America from Springfield, Massachusetts

In 2001, REFCO established its US subsidiary in Springfield, Massachusetts, to better serve the North American market. This strategic expansion underscores our commitment to providing localized solutions while maintaining the highest Swiss standards.

Quality tools for every need

From our early successes with analog manifolds to a product range now exceeding 1,800 items, REFCO offers a comprehensive range of precision-engineered tools that meet the highest standards. Our VAMP-series condensate pumps are just one example of how we set new benchmarks in condensate pump technology, featuring optical level sensing, an integrated water reservoir, and compact design with minimal noise emissions.

From our headquarters in Hitzkirch, Switzerland, we distribute our products globally. With over 4,500 pallet spaces in our state-of-the-art high-bay warehouse, we maintain a stock of components on two-thirds of the spaces, allowing us to create customized finished products on-site as needed.



REFCO booth at CHILLVENTA 2024 in Nuremberg, Germany.

Built to last

Every REFCO product is precision-engineered for durability. Spare parts are readily available, many of which can be replaced by end users. We also offer support for repairs, calibration, and retrofitting, ensuring our tools are long-lasting and reliable partners.

Customer-centric approach

In addition to our commitment to product quality, customized solutions, and international certifications, long-term partnerships are a cornerstone of our global success. REFCO places great emphasis on providing tailored advice and close support. Whether through technical and administrative support, training sessions at the customer's site or at REFCO headquarters, we work closely with our partners to nurture enduring, mutually beneficial relationships.

Support growth and excellence

To meet rising demand, REFCO has recently expanded its production facilities in Switzerland, creating more space for innovation and efficiency. This investment ensures we stay ahead of market needs, delivering quality products with unmatched reliability.

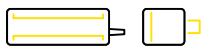
Your partner across borders

From Springfield to Switzerland, REFCO is proud to support HVAC professionals with tools that make a difference. With a legacy built on quality and trust, we look forward to continuing our journey together.



PRODUCT RANGE

Condensate Pumps



2

Vacuum Pumps



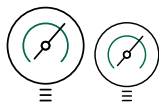
12

Recovery Units



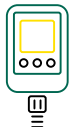
18

Pressure Gauges



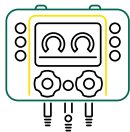
20

Vacuum Gauges



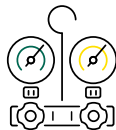
26

Digital Manifold REFMATE



28

Analog Manifolds



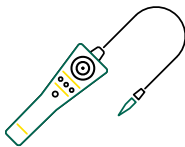
34

Charging Hoses



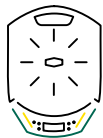
38

Leak Detection



44

Charging Scales



48

Test Equipment



50

Tools



52

GOBI II

Condensate pump for direct mounting under the air conditioner, designed for systems from 6,000 BTU/h (1.75kW) up to 120,000 BTU/h (35kW). Powerful: up to 11 gallons per hour and 65 ft delivery head.



Part No. 3004145

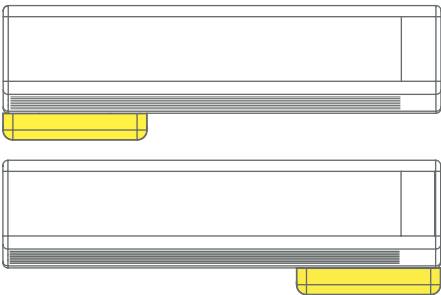
DESCRIPTION

The GOBI II condensate pump for direct mounting under the air conditioner is designed for systems from 6 000 BTU/h (1.75kW) up to 120 000 BTU/h (35kW). The digital water sensor, the universal voltage range and the individually configurable flow rate are features that contribute to making the GOBI II the most powerful and quietest condensate pump for air conditioning systems on the market today. The variable range of applications allows the trade as well as the installer to cover almost all needs with just one pump.

BENEFITS

- Universal use due to wide range of applications
- Warranty period only starts with commissioning (readable via USB)
- 11 gallons pumping capacity per hour
- 65 ft delivery head
- <19 dB noise level
- No float problems thanks to digital sensor
- Control of the pumping capacity according to requirements

APPLICATION



GOBI II pump can be mounted on the right or on the left side.

TECHNICAL INFORMATION

Max. Flow Rate	11 GPH
Max. Discharge Head	65.60 ft
Max. Suction Lift	10 ft
Noise Level	19 dB(A)
Type	Diaphragm type
Tube Diameter	1/4"
Voltage	100 – 240 VAC
Frequency	50 / 60 Hz

SPARE PARTS



STAR-TUBE-600

Star tube,
600 inches, Ø 1/4"
Part No. 3004186



KIT-4087

Star tube with
Stop-Siphon device
Part No. 3004087



FIL-4064/4

Spare filter,
4 pcs.
Part No. 3004064



FUS-4180/10

Spare fuses, pack
of 10 pcs.
Part No. 3004180



HSG-4065/4

Anti-Siphon Valve,
4 pcs.
Part No. 3004065

DISCOVER
THE PRODUCT
ONLINE



VAMP-F

Condensate pump with integrated reservoir and optical level sensor.
Delivered with extendable posable hose, integrated filter and adapter for direct connection to the condensate tray.

New



Part No. 3004238

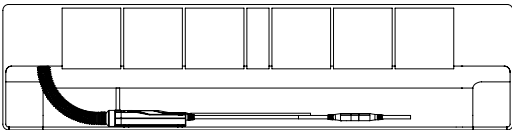
DESCRIPTION

Quick and easy to install, highly versatile, exceptionally quiet, and the smallest of its kind on the market – this is the new condensate pump from the VAMP series. It combines cutting-edge technology with practical advantages. Proven, interference-resistant optical sensor technology is paired with the reliable, silent performance of a diaphragm pump. During development, we prioritized using as few components as possible to ensure quick and easy installation and handling for the user. The VAMP-F features an integrated reservoir and optical level sensor, making it the smallest model available on the market.

BENEFITS

- Easy and quick installation
- Minimal space requirement: standing at just 1 inch height it fits even in the tightest space
- Quiet operation: Thanks to advanced diaphragm pump technology and effective vibration dampening, the pump operates at less than 20 dB(A)
- Optical level sensing technology
- Versatile applications: Suitable for wall-mounted units, ceiling units, and floor units
- Manufactured in Switzerland

INSTALLATION / APPLICATION



VAMP-F for easy of installation.

TECHNICAL INFORMATION

Max. flow rate	6 GPH
Max. cooling capacity	63,000 BTU/h
Max. discharge height	50 ft
Max. suction lift	6.5 ft
Max. horizontal run	246 ft at 0 ft head and 0 ft suction
Operating temperature	37 °F – 104 °F
Noise level	< 20 dB(A)
Compliance	CE, UL778, CSA C22.2 #108

ACCESSORIES



AP-mO/3

Adapter for VAMP condensate pumps, 3 pcs.

Part No. 4689101

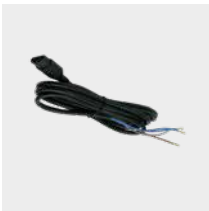
SPARE PARTS



POSABLE-HOSE/4

Expandable posable hose with filter, 4 pcs.

Part No. 4689088



CP-INSTALLATION-CABLE

Installation cable 4 pcs.

Part No. 4689089



HSG-4065/4

Anti-Siphon Valve, 4 pcs.

Part No. 3004065

DISCOVER
THE PRODUCT
ONLINE



VAMP-X

New

Condensate pump with external sensor. Delivered with extendable posable hose, integrated filter and adapter for direct connection to the condensate tray.

DESCRIPTION

Quick and easy to install, versatile in application, exceptionally quiet, and the smallest of its kind on the market – this is the new condensate pump from the VAMP series. It combines cutting-edge technology with practical benefits. Proven, robust optical sensor technology is paired with the reliable, silent operation of a diaphragm pump. During development, we focused on ensuring installation and handling are simple and fast for the user by minimizing the number of components. In the VAMP-X, the sensor is located in an external reservoir, offering maximum flexibility.

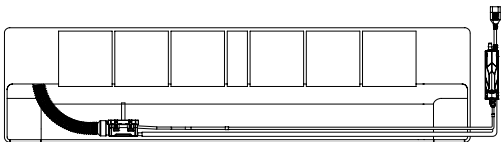
BENEFITS

- Easy and quick installation
- Minimal space requirement: standing at just 1 inch height it fits even in the tightest space
- Quiet operation: Thanks to advanced diaphragm pump technology and effective vibration dampening, the pump operates at less than 20 dB(A)
- External reservoir with optical level sensing for maximum flexibility
- Versatile applications: Suitable for wall-mounted units, ceiling units, and floor units
- Manufactured in Switzerland



Part No. 3004239

APPLICATION



VAMP-X for maximum flexibility.

TECHNICAL INFORMATION

Max. flow rate	6 GPH
Max. cooling capacity	63,000 BTU/h
Max. discharge height	50 ft
Max. suction lift	6.5 ft
Max. horizontal run	246 ft at 0 ft head and 0 ft suction
Operating temperature	37 °F – 104 °F
Noise level	< 20 dB(A)
Compliance	CE, UL778, CSA C22.2 #108

ACCESSORIES

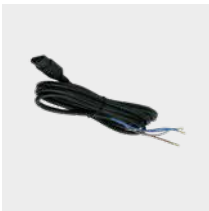


AP-mO/3
Adapter for VAMP condensate pumps, 3 pcs.
Part No. 4689101

SPARE PARTS



POSAABLE-HOSE/4
Expandable posa-
ble hose with filter,
4 pcs.
Part No. 4689088



**CP-INSTALLATION-
CABLE**
Installation cable
4 pcs.
Part No. 4689089



HSG-4065/4
Anti-Siphon Valve,
4 pcs.
Part No. 3004065



VAMP-X-SENSOR
Part No. 3004243

DISCOVER
THE PRODUCT
ONLINE

COMBI

Universal condensate pump designed for split air conditioning systems from 6,000 BTU/h (1.75kW) up to 120,000 BTU/h (35 kW). Powerful: Up to 11 gallons per hour, 10 ft suction and 65 ft delivery head.



INTRODUCTION

The COMBI condensate pump is designed for systems from 6 000 BTU/h (1.75kW) up to 120 000 BTU/h (35kW). The digital water sensor, the universal voltage range and the individually configurable flow rate are features that help make the COMBI the most powerful and quietest air conditioning condensate pump on the market today. The variable range of applications allows the trade as well as the installer to cover almost all needs with only one pump.

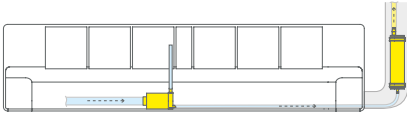
BENEFITS

- Universal use due to wide range of applications
- Warranty period only starts with commissioning (readable via USB)
- 11 gallons pumping capacity per hour
- 65 ft delivery head
- <19 dB noise level
- No float problems thanks to digital sensor
- Water sensor can be used horizontally or vertically
- Control of the pumping capacity according to requirements

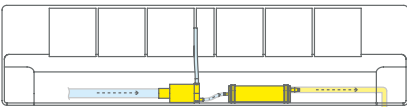
APPLICATION



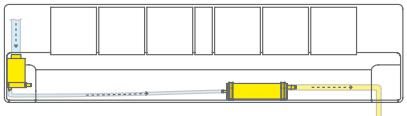
Water sensor in the AC unit, pump in the ceiling



Water sensor inside the AC unit and pump outside the unit



Water sensor and pump in the AC unit next to each other.



Water sensor vertical and pump in the AC unit.

TECHNICAL INFORMATION

Max. Flow Rate	11 GPH
Max. Discard height	65.60 ft
Max. Suction Lift	10 ft
Noise Level	19 dB(A)
Type	Diaphragm type
Tube Diameter	1/4"
Voltage	100 – 240 VAC
Frequency	50 / 60 Hz

SPARE PARTS



STAR-TUBE-600

Star tube,
600 inches, Ø 1/4"

Part No. 3004186



KIT-4087

Star tube with
Siphon device

Part No. 3004087



FIL-4063/4

Spare filter,
4 pcs.

Part No. 3004063



FUS-4180/10

Spare fuses,
10 pcs.

Part No. 3004180



HSG-4065/4

Anti-Siphon Valve,
4 pcs.

Part No. 3004065



COMBI-SEN

Spare sensor for
COMBI

Part No. 3004113



COMBI-SEN-CABLE

Water sensor cable

Part No. 4687950

DISCOVER
THE PRODUCT
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KAROO

Condensate pump completely sealed with high pumping capacity. Ideally suited as a submersible pump for use in condensate trays.



Part No. 4678512

TECHNICAL INFORMATION

Max. flow rate	3.17 GPH
Max. discharge head	65 ft
Max. suction lift	3.28 ft
Electrical ratings	120/240 VAC 50/60 Hz
Power consumption	16 W max., 0.25 when idle
Alarm relay	5 A, 30 VDC, 250 VAC Break on fault
Operating temp. range	32 °F – 104 °F
Discharge tube	1/4"

DESCRIPTION

The KAROO is completely sealed, which makes it a submersible pump for use in condensate trays. Its high pumping capacity enables it to be used in commercial, industrial and domestic installations. The electronic sensor triggers the pumping capacity and, if necessary, an alarm, and prevents otherwise common mechanical blockages of floats.

BENEFITS

- Electronic Energy Control System (EECS) with integrated alarm circuit for reliable monitoring
- Smooth start function enabled by EECS for reduced wear and noise
- All electronic components are encapsulated to protect them from moisture
- Submersible
- Pleasantly quiet
- Powerful and compact
- Built-in filter and integrated backstop

DISCOVER
THE PRODUCT
ONLINE



AQUA-SWITCH

AQUA-SWITCH is an electronic water switch for drain pans, for all applications where a reliable switch is needed to control or indicate the presence of water.

VERSIONS

Part No.	Voltage	Cord length
4678546	24 V	20" Cable
3000544	24 V	5' Cable
3000542	24 V	10' Cable
4678741	90-254 V	20" Cable
3000535	90-254 V	10' Cable



DISCOVER
THE PRODUCT
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INVERTER-CHECK-KIT

Diagnostic device to detect electronic defects in air conditioning and inverter fed air conditioning and refrigeration systems.



DISCOVER
THE PRODUCT
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ECO-A2L-series

Fast, quiet, and versatile – The **ECO-5-A2L** and **ECO-9-A2L** vacuum pumps are designed for all common refrigerants, including A2L.



ECO-5-A2L

New

INTRODUCTION

The two-stage vacuum pumps of the ECO-A2L series are suitable for use with all common refrigerants, including A2L refrigerants. It features a compact aluminum housing with a sturdy handle. The high pumping capacity reduces evacuation time significantly, yet it operates very quietly. An integrated solenoid valve prevents the loss of the already generated vacuum in case of accidental shutdown. Additionally, the pump comes equipped with 1/4" and 3/8" SAE flare Intake port, allowing for flexible hose selection and compatibility with various systems. Moreover, it is easy to operate and maintenance-friendly.

BENEFITS

- Suitable for A2L refrigerants
- The included solenoid valve prevents vacuum loss during accidental shutdowns
- Easy to operate and maintenance-friendly
- Very quiet operation
- High pumping capacity reduces evacuation time
- Both 1/4" and 3/8" SAE flare inlet connections allow for flexibility of connections

TECHNICAL INFORMATION

Model	ECO-5-A2L	ECO-9-A2L
Electrical ratings	115 V / 60 Hz	115 V / 60 Hz
Motor	0.37 kW / 1/2 HP	0.75 kW / 1 HP
Flow rate	5 CFM	9 CFM
Final vacuum	15 micron	15 micron
Number of stages	2	2
Intake port	1/4" SAE 3/8" SAE	1/4" SAE 3/8" SAE
Oil capacity	11 oz	17 oz
Operating temperature	41 °F – 104 °F	41 °F – 104 °F
Storage temperature	14 °F – 122 °F	14 °F – 122 °F
Ingress protection	IP20	IP20
Protection class	I	1
Dimensions	13.2 x 5.5 x 9.8"	15.6 x 5.7 x 10.1"
Weight	24.7 lb	36.6 lb
Part No.	4688957	4689189

Spare parts are available

DISCOVER
THE PRODUCT
ONLINE



ECO series

The two-stage rotary vane vacuum pumps of the ECO series combine high performance, compact design, and exceptional reliability, making them the ideal choice for HVAC/R professionals.



ECO-5

INTRODUCTION

The two-stage rotary vane vacuum pumps of the ECO series feature a compact design with durable aluminum housings and ergonomic carrying handles that stay cool to the touch. With high pumping capacities for reduced evacuation times, quiet operation, and easy starting, they ensure reliable performance. Flexible connection options include both $\frac{1}{4}$ " and $\frac{3}{8}$ " SAE flare inlets. All pumps come with vacuum oil included and offer top-quality performance at an excellent value.

BENEFITS

- Compact design with aluminum housing and easy to grip carrying handle
- Easy to operate and maintenance-friendly
- Very quiet operation
- High pumping capacity reduces evacuation time
- Both $\frac{1}{4}$ " and $\frac{3}{8}$ " SAE flare inlet connections allow for flexibility of connections
- Carrying handle stays cool to the touch

TECHNICAL INFORMATION

Type	ECO-5	ECO-9
Electrical ratings	115V / 60 Hz	115 V / 60 Hz
Motor	0.37 kW / 1/2 HP	0.75 kW / 1 HP
Flow rate	5 CFM	9 CFM
Final vacuum	15 micron	15 micron
Number of stages	2	2
Intake port	1/4" SAE 3/8" SAE	1/4" SAE 3/8" SAE
Oil capacity	9.5 oz / 0.6 pt.	20 oz / 1.25 pt
Operating temperature	41 °F – 104 °F	41 °F – 104 °F
Storage temperature	14 °F – 122 °F	14 °F – 122 °F
Ingress protection	IP20	IP20
Protection class	I	I
Dimensions	14 x 5 x 10"	16 x 6 x 11"
Weight	24 lb	37 lb
Part No	4667685	4669661

Spare parts are available

VACUUM PUMP OIL



DV-46

1, 05 quarts (1,000 ml)

Part No. **4495366**

DISCOVER
THE PRODUCT
ONLINE



RL VACUUM PUMPS

The vacuum pumps of the RL-series combine power, efficiency, and user-friendly features, making them ideal for professionals seeking reliable vacuum solutions.



RL-8

INTRODUCTION

Engineered for exceptional performance and reliability, the RL-series two-stage rotary vane vacuum pumps deliver fast evacuation and a deep vacuum, even under demanding conditions. With high-quality components and advanced technology, these pumps ensure efficiency and long-lasting durability.

BENEFITS

- Gas ballast valve keeps oil clean and reduces moisture
- Internal oil circulation for optimal lubrication
- Lightweight and durable with high-quality materials
- Easy-to-read oil level with central sight glass
- Large oil fill port for clean refilling
- Special exhaust filter reduces oil mist
- Built-in on/off switch prevents accidental operation and damage

TECHNICAL INFORMATION

Type	RL-2	RL-8
Electrical ratings	115 V / 60 Hz	115 V / 60 Hz
Motor	1/5 HP, 2700 rpm	1/2 HP, 3300 rpm
Flow rate	1.25 CFM	5.3 CFM
Final vacuum	15 micron	15 micron
Number of stages	2	2
Intake port	1/4" SAE 3/8" SAE	1/4" SAE 3/8" SAE
Oil capacity	0.25 pt	1 pt
Operating temperature	41 °F – 104 °F	41 °F – 104 °F
Storage temperature	14 °F – 122 °F	14 °F – 122 °F
Protection class	I	I
Dimensions	10.5 x 6.5 x 7.5 inch	14 x 8.6 x 9.8 inch
Weight	8.3 lb	26 lb
Part No	4661601	4507356

Spare parts are available

RL-2 The most compact and lightest option, perfect for applications requiring portability without sacrificing performance.

RL-8 Maximum capacity and featuring an integrated gas ballast valve for improved efficiency in heavy-duty applications.

DISCOVER
THE PRODUCT
ONLINE



ENVIRO-DUO

Powerful recovery and charging station ensures continuous performance thanks to the air-cooled two-piston compressor.



Part No. 4684605

INTRODUCTION

The powerful ENVIRO-DUO guarantees a smooth recovery and charging which, thanks to the air-cooled two-piston compressor, is equally stable throughout the entire process. The device is controlled with a single button and safely extracts all common refrigerants.

BENEFITS

- Suitable for all refrigerants
- Continuous performance thanks to proven two-piston compressor
- Oil-free and maintenance-free compressor
- Equipped with overfill protection (80%) and self-cleaning mode
- Large oil fill port for clean refilling
- Easy filter change
- Special compartment for moisture filters

Spare parts are available

DISCOVER
THE PRODUCT
ONLINE



ENVIRO

The ENVIRO offers efficient refrigerant recovery with one-knob operation, a quiet, oil-free compressor, and a compact, durable design.

INTRODUCTION

The ENVIRO is our entry-level model for refrigerant recovery and charging, featuring an oil-free, air-cooled compressor for efficient and fast operation. The recovery process is managed with a single button for simplicity, while its compact and ergonomic design ensures optimal safety and protection during use.

BENEFITS

- Continuous performance thanks to proven single-piston compressor
- Oil- and maintenance-free compressor
- Equipped with self-cleaning mode
- Easy filter change
- Special compartment for moisture filter



Part No. 4684593

TECHNICAL INFORMATION

Type	ENVIRO-DUO	ENVIRO
Electrical ratings	115 V / 60 Hz	115 V / 60 Hz
Motor	0.75 kW (1 HP)	0.55 kW (¾ HP)
Current	6.5 A	6.5 A
Recovery rate		
Vapor rate	up to 1.2 lbs/min	up to 0.80 lbs/min
Liquid rate	up to 7.7 lbs/min	up to 5 lbs/min
Push-pull	up to 21 lbs/min	up to 14 lbs/min
High pressure protector	565 psi	565 psi
Rotational speed	1,450 rpm	1,450 rpm
Number of pistons	2	1
Connector A	¼" SAE	¼" SAE
Connector B	¼" SAE	¼" SAE
Operating temperature	32 °F – 104 °F	32 °F – 104 °F
Ingress protection	IP30	IP30
Portection class	I	I
Dimensions	16 x 10 x 14"	16 x 10 x 14"
Weight	35 lbs	32 lbs
Part No.	4684605	4684593

DISCOVER
THE PRODUCT
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Bourdon Type Gauges

KM2 standard series with sturdy plastic housing



BENEFITS KM2 AND M2 SERIES

- Accuracy class 1.6
- 2 3/4" outside diameter
- Standard 1/8" NPT bottom connection
- Zero point adjustable
- Pulse-free operation
- Color-coded
- All brass internal parts, no plastic

TEMPERATURE SCALES

R12	R12/R22/R502
R22	R22/R134a/R404A
R32	R32/R410A
R134a	R134a/R404A/R507
R410A	R410A
R410A-FG	R410A/R404A/R22
R454B	R454B/R32/R410A

Designation	Description	Part No.
KM2-250-F-R12	R12/R22/R502 scales, compound	4530152
KM2-500-F-R12	R12/R22/R502 scales, pressure	4530161
KM2-250-F-R22	R22/R134a/R404A scales, compound	4505417
KM2-500-F-R22	R12/R22/R502 scales, pressure	4505425
KM2-250-F-R134a	R134a/R404A/R507 scales, compound	4530179
KM2-500-F-R134a	R134a/R404A/R507 scales, pressure	4530187
KM2-001	Replacement lens cover	4503350

DISCOVER
THE PRODUCT
ONLINE



M2 premium series

with sturdy metal housing

Designation	Description	Part No.
M2-255-F-R32-R454B	R454B, R32, R410A scales, compound	4689148
M2-555-F-R32-R454B	R454B, R32, R410A scales, pressure	4689149
M2-250-F-R12	R12/R22/R502 scales, compound	7829168
M2-500-F-R12	R12/R22/R502 scales, pressure	7829567
M2-250-F-R22	R22/R134a/R404A scales, compound	7635083
M2-500-F-R22	R22/R134a/R404A scales, pressure	7635147
M2-250-F-R410A	R410A scale, compound	7829982
M2-500-F-R410A	R410A scale, pressure	7830000
M2-250-F-R32	R410A/R32 scales, compound	4687453
M2-500-F-R32	R410A/R32 scales, pressure	4687454
M2-250-F-R410A-FG	R410A/R404A/R22 scales, compound	7218188
M2-500-F-R410A-FG	R410A/R404A/R22 scales, pressure	7218358
M2-001	Replacement lens cover	1212648
M2-GS	Gauge protector set	4677451



SWISS
movement

DISCOVER
THE PRODUCT
ONLINE



Bourdon Type Gauges

Glycerin Filled GR series
for dampening effect



BENEFITS

- Accuracy class 1.6
- 2 3/4" outside diameter
- Standard 1/8" NPT bottom connection
- Glycerin-filled for dampening effect
- Zero point adjustable
- Pulse-free operation
- Color-coded
- Aluminium housing
- All brass internal parts, no plastic

SWISS
movement

Designation	Description	Part No.
GR-220-F-R12	R12/R22/R502 scales, glycerin-filled, compound	7714013
GR-320-F-R12	R12/R22/R502 scales, glycerin-filled, pressure	7714098
GR-220-F-R134a	R134a/R404A/R507 scales, glycerin-filled, compound	7714064
GR-320-F-R134a	R134a/R404A/R507 scales, glycerin-filled, pressure	7714102

TEMPERATURE SCALES

R12	R12/R22/R502
R22	R22/R134a/R404A
R32	R32/R410A
R134a	R134a/R404A/R507
R410A	R410A
R410A-FG	R410A/R404A/R22
R454B	R454B/R32/R410A

DISCOVER
THE PRODUCT
ONLINE



M5 series class 1.0
with large outside diameter

BENEFITS

- Accuracy class 1.0
- 3 ¼" outside diameter
- Standard ½" NPT bottom connection
- Zero point adjustable
- Pulse-free operation
- Color-coded
- Metal housing
- All brass internal parts, no plastic

SWISS
movement



M5-250

Designation	Description	Part No.
M5-250-F-R410A-FG	R410A/R404A/R22 scales, compound	4675288
M5-500-F-R410A-FG	R410A/R404A/R22 scales pressure	4675296

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THE PRODUCT
ONLINE



Bellow Type Gauges

Oil-filled R3 series
Over-pressure resistant



BENEFITS R3 AND R5 SERIES

- Accuracy class 1.0
- 2 3/4" or 68 mm outside diameter
- Standard 1/8" NPT bottom connection
- Oil-filled for smooth, stable readings
- Hermetically sealed (no leakage)
- Over-pressure resistant (up to 2.5 times the printed scale)
- Zero point adjustable
- Pulse-free operation
- Color-coded
- Anodized aluminium housing
- All brass internal parts, no plastic

Designation	Description	Part No.
R3-220-F-R12	R12/R22/R502 scales, oil-filled, compound	9884479
R3-320-F-R12	R12/R22/R502 scales, oil-filled, pressure	9884480
R3-220-F-R22	R22/R134a/R404A scales, oil-filled, compound	4667472
R3-320-F-R22	R22/R134a/R404A scales, oil-filled, pressure	4667480
R3-220-F-R134a	R134a/R404A/R507 scales, oil-filled, compound	9884481
R3-320-F-R134a	R134a/R404A/R507 scales, oil-filled, pressure	9884482
R3-220-F-R410A-FG	R410A/R404A/R22 scales, oil-filled, compound	4662399
R3-320-F-R410A-FG	R410A/R404A/R22 scales, oil-filled, pressure	4662403

DISCOVER
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Oil-filled R5 series with large outside diameter



R5-220

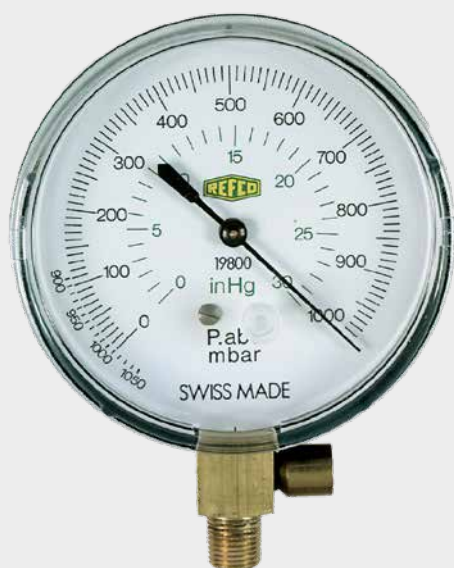
Designation	Description	Part No.
R5-220-F-R12	R12/R22/R502 scales, oil-filled, compound	4493916
R5-320-FR12	R12/R22/R502 scales, oil-filled, pressure	4493924
R5-220-F-R410A-FG	R410A/R404A/R22 scales, oil-filled, compound	4675300
R5-320-F-R410A-FG	R410A/R404A/R22 scales, oil-filled, pressure	4675318

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THE PRODUCT
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19800-SV

Mechanical Vacuum Gauge ensuring reliable and accurate measurements with a clear and easy-to-read display.



19800-SV

BENEFITS

- Recalibratable, class 1.6
- Scales in 1000 - 0 mbar and 30" - 0 Hg
- 3 1/4" outside diameter for easy-to-read, more accurate reading than a compound gauge
- 1/8" NPT bottom connection
- Zero point adjustable
- With replaceable safety valve if positive pressure is introduced into the gauge

Part No. 9882473



DISCOVER
THE PRODUCT
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REFVAC-RC

Precise Control of Evacuation Processes

INTRODUCTION

This digital vacuum gauge is the ideal tool for monitoring evacuation processes on construction sites or in laboratories. It allows direct numerical readings from atmospheric pressure, ensuring precise measurements. With intuitive three-button operation and wireless communication via the REFMesh App and REFmate, it enables long-term measurements and detailed reporting.

TECHNICAL INFORMATION

Sensor Type	Micro-Pirani Sensor
Pressure Type	Absolute pressure
Pressure Range	atm – 0 micron
Accuracy	±5% of the reading or ±10 microns: from 10 to 10,000 micron ±10% of reading: from 10,000 to 30,000 micron
Units	mbar / Pa / Torr / inHg / mTorr / micron / psi
Working pressure	435 psi
Temperature range	68 °F – 122 °F
Gas connection	¼" SAE

SPARE PARTS

Designation	Description	Part No.
REFVAC-FILTER/5	Spare Sinter filter, 5 pcs.	4688566
VCL-60-3/8"SAE X 1/4" SAE	High performance vacuum hose for efficient evacuation. Length: 5 feet Hose inner Ø: 3/8" Connection: 3/8" x 1/4" SAE	4688477
SWIVEL-ARM-1/4"SAE-N	Swivel arm 1/4" SAE	4687631
REF-VAC-T	Forged female flare branch tee, 3 x 1/4" SAE, with O-ring	4687845



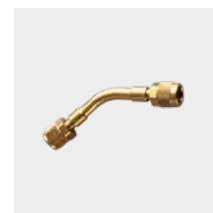
Part No. 4688541

BENEFITS

- Integrated display
- Display of differential pressure and pressure change
- High precision
- High resolution in low vacuum
- Wireless communication
- Signal range: 328 feet
- Intuitive handling
- Replacement Sinter filter prevents pollution of the sensor



VCL-60



SWIVEL-ARM

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REFMATE

Precision and connectivity for the modern refrigeration engineer.



REFMATE-4

Everything is connected: REFMesh, our IoT platform, links peripheral devices to the REFMATE. Data is stored locally, in the app, or the cloud and shared in various formats.



REFMESH Digital reporting

The REFMesh App -
An IoT PLATFORM

DESCRIPTION

The REFMATE is the Digital Manifold for the professional refrigeration engineer. It communicates wirelessly with temperature clamps, vacuum gauge, pressure gauges, and the scale, and documents all measured values in the device during long-term measurements. All data can be interpreted and displayed via the app REFMesh. The latest refrigerant and firmware updates can be easily installed via PC.

BENEFITS

- Patented analog display
- Large 4.3" TFT display
- Indication of superheating and subcooling
- Intuitive control via robust push buttons
- High precision with accuracy class 0.5
- Flexible power supply (AA batteries or USB)
- Wireless communication with REFMesh App and other devices
- All mechanical components are available as spare parts
- Lockable for long-term measurements

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DOWNLOAD
REFMESH APP



Well-Structured

The large color display shows measured values in either analog or digital format. The pointers react sensitively and in real time.



Receptive

Long-term data logging and maintenance activities are automatically stored in the REFMA app and documented in the REFMA app.



Up-to-date

Refrigerant and software updates can be carried out independently and free of charge



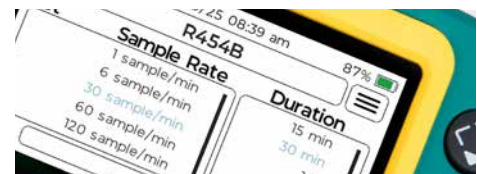
Adaptable

The display's screen settings can be easily adjusted depending on the light conditions and environmental factors.



Communicative

The REFMA connects different peripheral and measuring devices with the REFMA app.



Quick

Access the most relevant refrigerants by setting favorites.



Precise

The sensor's high level of accuracy is complemented by the compensation of the temperature measurement errors on the tube.



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Digital Manifolds

TECHNICAL INFORMATION

Property		Value
Pressure sensor	Pressure range	-14 to 870 psi
	Max. working pressure	870 psi
	Max. overpressure	1160 psi
	Accuracy	±0.5% (class 0.5)
	Units	psi / bar / kPa / MPa / kg/cm ²
	Resolution	0.5 psi / 0.001 bar / 1 kPa / 0.0001 MPa / 0.01 kg/ cm ²
External temperature sensors	Temperature range	40 °F to +257 °F
	Connector	K-type
	Temperature accuracy	±1K
	Temperature units	°F / °C
	Resolution	0.1 °F / 0.1 °C
Temperature clamps	Temperature range	-40 °F to +257 °F
	Connector	K-type
	Temperature accuracy	±1K
	Temperature units	°F / °C
	Resolution	0.1 °F / 0.1 °C
	Tube diameters: Tube dia. wireless temp.	¼" to 1 ½" / 6 mm to 38 mm ¼" to 1 ⅝" / 6 mm to 42 mm
Charging hoses		3 charging hoses ¼" SAE (blue, red, yellow / 60"), with or without CA valves REFMATE-4: special vacuum hose ⅜", 60"
Ambient temperature		-4 °F to +122 °F / -20 °C to +50 °C
Storage temperature		-4 °F to +140 °F / -20 °C to +60 °C
Display		4.3" TFT color display
Ingress protection		IP42
Power source		4 x 1.5 V AA / Mignon / LR6 or via USB
Operating hours		50 h at low operation
Signal range		328 ft (100 m)
Connectors		REFMATE-2: 2 x ¼", ¼" vacuum REFMATE-4: 3 x ¼", ⅜" vacuum
Material		Glass fibre-reinforced ABS, TPE, aluminium, brass
Dimensions of sturdy plastic case (H x W x D)		4.2" x 13.9" x 20.7" / 107 x 353 x 526 mm
Device dimensions (H x W x D)		REFMATE-2: 7.7" x 7.7" x 3.1" / 195 x 195 x 78 mm REFMATE-4: 7.7" x 8.9" x 3.2" / 195 x 227 x 81 mm
Refrigerants and firmware		Over 80 in basic version. Easy to update by means of free REFMesh App and computer
Conformity		CE / FCC / IC / RCM / RoHS / REACH

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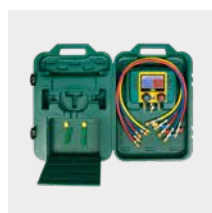


REMATE-2

Components	Basic	Standard	CA	CA-TC	CA-WTC	CA-WTC-V
Sturdy plastic case	1	1	1	1	1	1
K-type temperature sensor	2	2	2	2	2	2
3 piece hose set		1				
3 piece hose set with CA valves			1	1	1	1
Special vacuum hose 3/8"						
Temperature clamps				2		
Wireless temperature clamps					2	2
Digital vacuum gauge						1
Part No.	4688297	4688124	4688125	4688126	4688127	4688128

REMATE-4

Components	Basic	Standard	CA	CA-TC	CA-WTC	CA-WTC-V
Sturdy plastic case	1	1	1	1	1	1
K-type temperature sensor	2	2	2	2	2	2
3 piece hose set		1				
3 piece hose set with CA valves			1	1	1	1
Special vacuum hose 3/8"		1	1	1	1	1
Temperature clamps				2		
Wireless temperature clamps					2	2
Digital vacuum gauge						1
Part No.	4688298	4688129	4688100	4688130	4688131	4688132



REFMATE-CASE

Protection case

Part No. 4688082



K-TYPE-CLAMP-TC

Temperature clamp

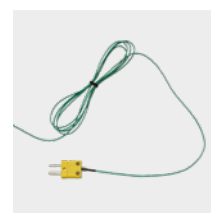
Part No. 4681466



WIRELESS-CLAMP-WTC

Wireless temperature clamp

Part No. 4687785



K-TYPE-SENSOR

External temp. sensor K-type for REMATE

Part No. 4681394

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TAP

Wireless Temperature and Pressure Gauge Set



TAP

DESCRIPTION

The TAP wireless digital pressure and temperature gauge is a reliable tool for measuring pressure and temperature on the low and high sides of air conditioning and refrigeration systems. It offers accurate readings, superheat and subcooling calculations, and seamless integration with mobile devices.

BENEFITS

- **Quick and easy connection:** Effortlessly attach to pressure sources and temperature measuring points
- **Superheat & subcooling calculations:** Accurate calculations displayed on the gauge or in the app.
- **Wireless operation:** No cables required for flexible and hassle-free use
- **Standalone or app-compatible:** Works independently or integrates seamlessly with **iOS and Android** devices
- **Multi-device connection:** Monitor up to 6 TAP devices simultaneously for comprehensive system analysis
- **Easy Reporting:** Generate and email reports directly from your phone
- **Preloaded Refrigerants:** Includes a library of over 50 refrigerants, with update options via Micro USB
- **Versatile Measurements:** Wireless K-type clamp fits pipe sizes from 1/4" to 1 5/8"

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APP REQUIREMENTS

iOS Version 8.0 or higher

Android Version 4.4 or higher

Get the App for iPhone, iPad on App Store,
for Android on Play Store

TECHNICAL INFORMATION

TAP Pressure Gauge

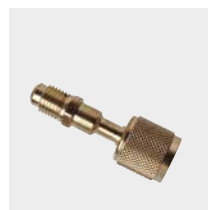
Pressure range	Up to 870 psi
Accuracy	≤ 1.0% FS
Resolution	0.1 psi
Units	psi / bar / kPa / MPa
Battery life	40 hours (4 x AAA)
Micro USB interface	for refrigerant updates

TAP Temperature Clamp

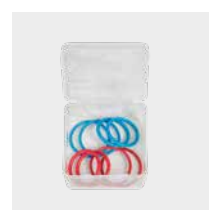
Temp. range	40 °F to +257 °F
Accuracy	1.8 °F
Resolution	0.2° F
Battery life	50 hours (3 x AAA)
Jaw range	1/4" to 1 5/8"
Dimensions	6-3/8" x 1-9/16" x 3-9/64"

ACCESSORIES

Designation	Description	Part No.
SWIVEL-ARM-1/4" SAE-N	Swivel arm 1/4"	4687631
QC-S410A/2	Adapter with core depressor, 1/4" x 5/16" SAE	4687095
TAP-MARKING-SET	Marking rings for TAP 4 x 5 pcs. per size	4687793

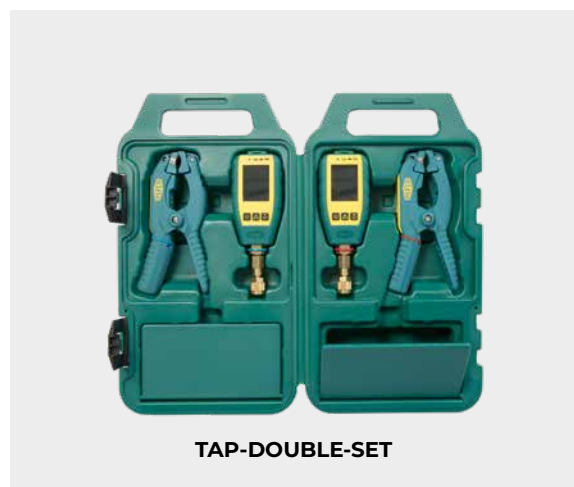


QC-S410A



TAP-MARKING-SET

Designation	Description	Part No.
TAP-SET	1 TAP Pressure Gauge 1 TAP Temperat. Clamp 1 SAE 1/4" female/female adapter 1 USB Cable, 7 batteries 1 manual, 1 case	4687788
TAP-DOUBLE-SET	2 TAP Pressure Gauge 2 TAP Temperat. Clamps 2 SAE 1/4" female/female adapter 1 USB Cable, 14 batteries 1 manual, 1 case	4687789
TAP	Pressure Gauge	4687787
WIRELESS-CLAMP WTC	Wireless temperature clamp for REMATE and TAP	4687785



TAP-DOUBLE-SET

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APEX Manifolds

Standard Two-Way aluminium Manifold



APEX

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BENEFITS

- Class 1.6 bourdon type gauges (M2), easy to read
zero point adjustable, pulse free and color-coded
- Two-piece piston valve with O-ring seal: repairable and durable
- Swivel hook and 45° hose anchors: for flexible handling
- Color-coded handwheels: ensure easy identification
- High-quality aluminium body: robust and reliable construction
- High-pressure hoses: 870 psi working pressure, 4350 psi burst pressure, ensuring maximum safety

Designation	Hoses	Description	Part No.
APEX-7-F-R32-CCL-60	5' set	blister package	4687455
APEX-9-F-R410A-FG	none	blister package	4675483
APEX-7-F-R410A-FG	3' set	blister package	4675407
APEX-7-F-R410A-FG-CCL-60	5' set	blister package	4675440
APEX-7-F-R410A-FG-CA-CCL-60	5' set w. ball valve	blister package	4686280
APEX-9-F-R32-R454B	none	blister package	4689150
APEX-7-F-R32-R454B-CCL-60	5' set	blister package	4689151

**TEMPERATURE SCALES**

R12	R12/R22/R502
R22	R22/R134a/R404A
R32	R32/R410A
R134a	R134a/R404A/R507
R410A	R410A
R410A-FG	R410A/R404A/R22
R454B	R454B/R32/R410A

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CO2-Manifold



M2-3-DELUXE-F-R744-TC

M2-3-DELUXE-F-R744-TC

This manifold is suitable for transcritical applications. Metal sealed needle valves are being used to handle the high pressures. This allows for a very precise adjustability.

- 2-way-manifold with oil filled bellow type gauges,
- 3 charging hoses ¼" SAE, 72 inches,
- 1,160/2,320 psi, packed in a sturdy plastic case
- **Part No. 4688060**

CCL-72-DN6-R744-TC

- Pressure hose DN6, transcritical, 2320 psi
- Connection at both ends ¼" SAE
- Length: 72 inches, 3 pcs.
- **Part No. 4687906**

SPARE PARTS

Designation	Description	Part No.
M2-10-350BAR/2	Valve for R744-TC Manifold, 2 pcs.	4687917
M2-6-N-SET	Handle set for R744 Manifold	4687918
M4-6-14-R744-TC	Case complete with inlay and lettering	4687928



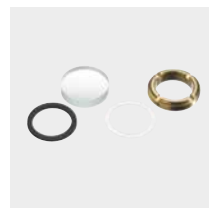
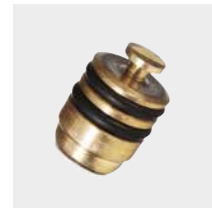
M2-10-350BAR/2

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Manifold Spare Parts

Designation	Description	Part No.
M2-6-09-B+R	Blue, Red handwheel, for 2-way manifolds	4687080
M2-7-SET-B+R	Blue, Red handwheel, for 2-way manifolds	4687079
M4-6-09-B	Blue handwheel for 4-way manifolds	4490976
M4-6-09-N	Black handwheel for 4-way manifolds	4490984
M4-7-SET-B+N+R+Y	Blue, Black, Red, Yellow handwheel, for 4-way manifolds	4687094
M4-6-10	Hook for all manifolds	9882584
M2-10-95-R/2	Complete valve set with 2 gaskets, 2 pcs.	4687104
M2-10-95-R/4	Complete valve set with 2 gaskets, 4 pcs.	4687105
M4-6-04-R/4	Piston including 2 gaskets, 4 pcs.	4687093
M4-6-04-R/10	Piston including 2 gaskets, 10 pcs.	4662624
M4-6-11	Sight glass w/O-ring and brass threaded ring for R410A manifolds	4491018
M4-6-11-T	Special sight glass threaded ring installation tool	4493169
A-31452-Y	Y-plug hose holder	4665118
M4-6-15	Carrying case with storage compartement for 2- and 4-way manifolds made of sturdy plastic	4666106

**M2-6-09-B+R****M4-6-09****M2-7-SET-B+R****M4-7-SET-B+N+R+Y****M4-6-10****M2-10-95-R****M4-6-11****M4-6-04-R**

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Charging Hoses 1/4" SAE

Reliable, high-performance hoses designed for all refrigerants, offering exceptional durability and ease of use.



CCL-36



CL-36-Y

BENEFITS

- **1/4" SAE Connections:** Universal fit for various applications
- **Versatile Sizes:** Standard lengths of 36", 48", 60", and 72"; custom lengths on request
- **High Performance:** Burst pressure 4,350 psi, working pressure 870 psi
- **Compatible with all refrigerants: Including R410A**
- Durable Neoprene gaskets
- **Quick-snapper system** prevents the gasket from being blown out of the hose
- Easy Handling: Knurled brass nuts allow for effortless finger-tightening
- Robust design: Eight-sided crimping maximizes hose life
- **Color-Coded** for: blue, red, and yellow hoses for easy identification
- Available as a set of three (red, yellow, blue) or individually
- All hoses are **Swiss Made**

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INDIVIDUAL CHARGING HOSES

Designation	Description	Part No.
CL-36-Y	36" Yellow hose	9881271
CL-36-R	36" Red hose	9881262
CL-36-B	36" Blue hose	9881253
CL-48-Y	48" Yellow hose	9881270
CL-48-R	48" Red hose	9881261
CL-48-B	48" Blue hose	9881252
CL-60-Y	60" Yellow hose	9881269
CL-60-R	60" Red hose	9881260
CL-60-B	60" Blue hose	9881251
CL-72-Y	72" Yellow hose	9881268
CL-72-R	72" Red hose	9881259
CL-72-B	72" Blue hose	9881250

SETS OF 3

Designation	Description	Part No.
CCL-36	Set of 3 - 36"	9881278
CCL-60	Set of 3 - 60"	9881276
CCL-72	Set of 3 - 72"	9881275

J2196 Hoses

The J2196 hoses have the same features as the standard charging hose, but are made from a special material that prevents refrigerant permeation while remaining flexible and easy to use.

SETS OF 3

Designation	Description	Part No.
CCL-36-J2196	Set of 3 - 36"	9884728
CCL-60-J2196	Set of 3 - 60"	9884729
CCL-72-J2196	Set of 3 - 72"	9884730

Spare parts for 1/4" SAE Charging Hoses

**QC-S410A/2**

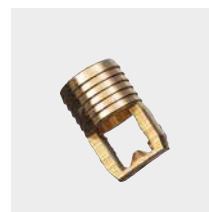
Adapter with core depressor
1/4" SAE male x 5/16" SAE female
Packaged 2 per
Part No. 4687095

**P-509/10**

Neoprene gaskets,
10 pcs.
Part No. 9880872

**P-509-T/10**

PTFE gaskets,
10 pcs.
Part No. 9880871

**P-513/10**

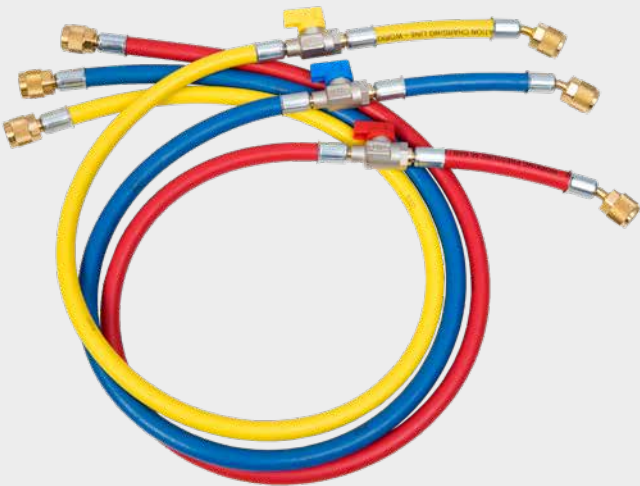
Core depressors for Schrader valves,
10 pcs.
Part No. 9880869

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Charging Hoses 1/4" SAE

with Ball Valves



CCL-36-CA

BENEFITS

- All standard REFCO charging hose features, plus a compact, color-coded, chrome-plated full-flow ball valve to minimize refrigerant burns and atmospheric releases
- Suitable for R410A
- Available in sets of 3 or individually



CA-CCL-36

SETS OF 3: **BALL VALVE BETWEEN 2 HOSE PARTS**

Designation	Description	Part No.
CCL-36-CA	Set of 3 - 36" w/ball valve	4668559
CCL-60-CA	Set of 3 - 60" w/ball valve	4668533

SETS OF 3: **BALL VALVE AT THE END**

Designation	Description	Part No.
CA-CCL-36	Set of 3 - 36" w/ball valve	4493614
CA-CCL-60	Set of 3 - 60" w/ball valve	4493622
CA-CCL-72	Set of 3 - 72" w/ball valve	4493631

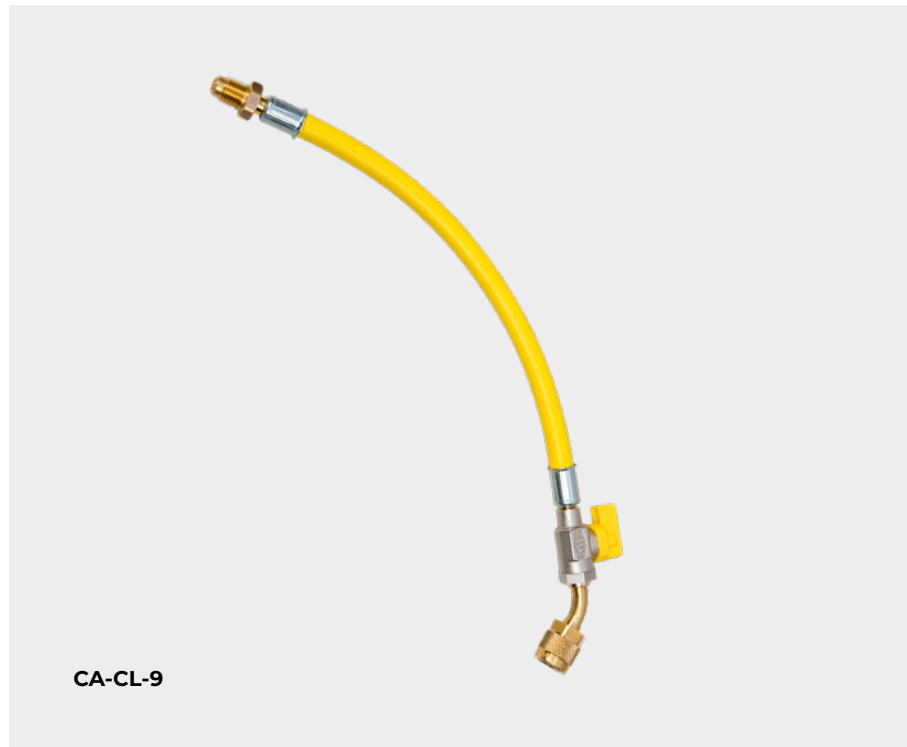
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INDIVIDUAL CHARGING HOSES:

BALL VALVE AT THE END

Designation	Description	Part No.
CA-CL-9-B-M	9" Blue hose w/ball valve	4682056
CA-CL-9-R-M	9" Red hose w/ball valve	4682047
CA-CL-9-Y-M	9" Yellow hose w/ball valve	4682039
CA-CL-36-Y	36" Yellow hose w/ball valve	4492936
CA-CL-60-Y	60" Yellow hose w/ball valve	4492961
CA-CL-60-R	60" Red hose w/ball valve	4492952
CA-CL-60-B	60" Blue hose w/ball valve	4492944
CA-CL-72-Y	72" Yellow hose w/ball valve	4492995
CA-CL-72-R	72" Red hose w/ball valve	4492987
CA-CL-72-B	72" Blue hose w/ball valve	4492979



CA-CL-9

Ball Valves

Ball valve with 1/4" SAE male and female fittings, bent 45°, with loose nut and core depressor.

Designation	Description	Part No.
CA-1/4"SAE-Y	Yellow ball valve with male and female 1/4" SAE fittings	4493738
CA-1/4"SAE-R	Red ball valve with male and female 1/4" SAE fittings	4493533
CA-1/4"SAE-B	Blue ball valve with male and female 1/4" SAE fittings	4493525



CA-1/4"SAE-Y

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Charging Hoses 1/4" with Magic Seal

These hoses have an integrated valve, which closes automatically when the hose is removed from the system.



BENEFITS

- Built-In Magic Seal Valve: Automatically closes upon disconnection to prevent refrigerant loss and skin burns
- Environmentally friendly: prevents refrigerant leakage, minimizing environmental impact
- Burst pressure 4,350 psi, working pressure 870 psi, suitable for all refrigerants, including R410A
- Valve Core Pusher with PTFE Seal: Ensures a secure and durable connection
- Durable Neoprene Seals: Ensure long-lasting, reliable performance
- Swiss Made



Designation	Description	Part No.
CPV-60-Y	60" Yellow hose w/built in shut off valve	9881230
CPV-60-R	60" Red hose w/built in shut off valve	9881240
CPV-60-B	60" Blue hose w/built in shut off valve	9881235

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THE PRODUCT
ONLINE



SET OF 3

Designation	Description	Part No.
CPV-CCL-60	w/built in shut off valve, 60"	4495421

Designation	Description	Part No.
CPV-DS	Gasket for CPV hoses	4684512

Charging Hose $\frac{3}{8}$ "



BENEFITS

- $\frac{3}{8}$ " SAE connection
- Burst pressure 2,250 psi, working pressure 465 psi
- Robust Construction: Eight-sided crimping maximizes hose life
- Easy Handling: Knurled brass nuts for effortless finger-tightening
- Swiss Made

Designation	Description	Part No.
HCL6-60-Y	$\frac{3}{8}$ " SAE Yellow hose, 60"	9881313

Spare parts for $\frac{3}{8}$ " SAE Charging Hoses



P-510/10

Neoprene orings,
10 pcs.

Part No. 9880870



A-40513/10

Core depressor,
10 pcs.

Part No. 9884813

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TRITECTOR

3-in-1 Leak detector with easily replaceable sensors, all common refrigerants, combustible gases and tracer gases can be detected with only one device.



DESCRIPTION

The TRITECTOR is the practical 3-in-1 solution for the professional refrigeration engineer – with easily replaceable sensors, all common refrigerants, combustible gases and tracer gases can be detected with only one device. The adjustable sensitivity levels find even the smallest leaks, and the ambient concentration is continuously compensated automatically or can also be compensated manually. As soon as a leak is detected, the color LCD display gives a visual signal and an optional sound is emitted. As with other REF-CO products, either AA batteries or Micro-USB supplies power - making annoying delays caused by dead batteries a thing of the past

BENEFITS

- Easy handling and intuitiveness
- **Replaceable sensors** –flexibility to detect refrigerants, combustible gases, and tracer gases with just one device
- **Automatic and manual ambient concentration reset** - ensures accurate measurements in various environments
- **Color LCD display** and optional sound signal – clear visual and optional audible alerts for quick leak detection
- **Variable power supply** (batteries or USB)

Designation	Description	Part No.
TRITECTOR-R	Leak detector including refrigerant sensor (green); delivered in plastic case	4688375
TRITECTOR-RC	Leak detector including 2 sensors: refrigerant (green) and combustible gases (red), delivered in plastic case	4688683
TRITECTOR-RTC	Leak detector including 3 sensors: Refrigerant (green), combustible gases (red), tracer gas (yellow)	4688374
R-SENSOR	Refrigerant sensor (green)	4688370
C-SENSOR	Combustible gas sensor (red)	4688371
T-SENSOR	Tracer gas sensor (yellow)	4688372
TRITECTOR-FILTERS/5	Sensor filter, 5 pcs.	4688367
TRITECTOR-CASE	Sturdy protection case	4688364

TECHNICAL INFORMATION

Sensor technology	Semiconductor (heated diode)		
Minimum sensitivity:	Refrigerant (R): 0.04 oz/yr (R134a) Combustibles (C): 0.04 oz/yr R290; <5 ppm methane Tracer (T): 0.11 oz/yr		
Sensor lifetime	Approx. 10 years with proper filter changes. Exposing the sensor to a high density of refrigerant (>30'000 ppm) will shorten its lifetime rapidly		
Warm-up time	45 seconds		
Operating temp.	+14 °F – +122 °F		
Storage temp.	–4 °F – 140 °F		
Power supply	4 x 1.5 V AA batteries. Operating time of approx. 12 hours when used continuously		
Alternative power supply	Micro USB		
Tube length	16"		
Automatic reset	every 30 sec.		
Sensitivity level	R	T	C
Low (LM)	0.5 oz/yr	0.5 oz/yr	N/A
Mid (M)	0.25 oz/yr	0.25 oz/yr	N/A
High (H)	0.04 oz/yr R134a	0.11 oz/yr R290	0.04 oz/yr



TRITECTOR-RTC

DISCOVER
THE PRODUCT
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STARTEK

Electronic Leak Detector for all Halogenated Refrigerants.



STARTEK

BENEFITS

- Detects all halogenated refrigerants, including R410A
- Simple one-button operation with two sensitivity levels
- Visual and audible leak indication with high-performance airflow
- Durable 12" flexible probe for hard-to-reach areas
- Automatic shut-off to conserve battery life
- Comes with a replacement sensor and protective carrying case
- Certified to SAE J1627 standard

TECHNICAL DATA

Sensitivity	<0.1 oz/year
Sensor lifetime	approx. 30 hours
Battery lifetime	40 hours
Operating temp.	32 °F to 125 °F
Probe lenght:	12 inches
Warmup-time	less than 2 seconds
Response time	instantaneous
Dimensions	6 x 1.4 x 2.1 inch
Weight	6.7 oz
Part. No	4507917

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Designation	Description	Part No.
STARTEK-ES-02/2	Replacement sensor, 2 pcs.	4507577

STARTEK-C

Electronic Leak Detector for Combustible Gases.



STARTEK-C

BENEFITS

- Detects combustible gas concentrations as low as 5 ppm
- It is sensitive to all combustible gases
- Features high and low sensitivity modes for precise leak detection
- Long-life sensor ensures reliability and durability
- Compact design for easy handling and operation
- Delivered in a sturdy plastic case for protection and portability

TECHNICAL DATA

Sensitivity	<0.1 oz/year
Sensor lifetime	approx. 30 hours
Battery lifetime	40 hours
Operating temp.	32 °F to 125 °F
Probe lenght:	12 inches
Warm-up time	45 seconds
Response time	5 seconds
Dimensions	6 x 1.4 x 2.1 inch
Weight	6.7 oz
Part. No	4660664

Designation	Description	Part No.
ES-C	Replacement sensor	4660672

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REFSCALE-S

Electronic charging scale with lowest overall height -
designed for precise and efficient refrigerant exchange.



Part No. 4688867

DESCRIPTION

Simplify refrigerant handling with the innovative REFSCALE-S electronic charging scale. With a low height of just 1.38 inches, it allows easy placement of refrigerant cylinders and is highly portable, weighing only 7.05 lbs with an integrated carrying handle. The scale features a high-resolution sensor for accurate filling, a memory function for data storage, and an M10 thread for attaching an optional valve. It can be powered by batteries or USB, compensates for gravity variations, and connects wirelessly to REFIMATE and/or REFIMESH for enhanced efficiency.

TECHNICAL INFORMATION

Measuring range	0 – 243 lbs
Resolution	0.005 lbs, 0.1 oz
Measuring accuracy	0 lbs – 44 lbs: 0.05% or 0.35 oz 44 lbs – 242 lbs: 0.05%
Units	Kg, lbs, oz
Operating temperature	-4 °F – 122 °
Storage temperature	-40 °F – 140 °F
Wireless range:	330 feet
Height and weight	1.38 inches 7.05 lbs

BENEFITS

- Slim profile of 1.38 inches
- Convenient carrying handle
- High-quality anti-slip mat
- Integrated display
- Thread for refrigerant bottles
- Integrated display
- Flexible power supply
- Sturdy protective cover

DISCOVER
THE PRODUCT
ONLINE



REFSCALE

This electronic charging scale provides precise weight measurements, and is designed for safe handling of both large and small refrigerant cylinders with its robust aluminum plates and flexible functionality.



Part No. 4688292

BENEFITS

- High accuracy and automatic resolution
- Programmable alarm
- Calibration with reference weights
- Refrigerant tank capacity indicator

TECHNICAL INFORMATION

Measuring technology	Strain gauge	
Capacity	242 lbs	
Accuracy	0.05% of reading or 0.0222 lbs	
Automatic resolution	0.1 oz / 0.005 lbs	0 to 44 lbs
	0.2 oz / 0.010 lbs	44 to 110 lbs
	0.4 oz / 0.020 lbs	110 to 243 lbs

DISCOVER
THE PRODUCT
ONLINE



REFVALVE

The refrigerant switching valve REFVALVE enables automatic system filling and provides flexible features for precise, user-friendly operation.

BENEFITS

- Wireless connection of REFSCALE-S, and REFMATE with REFVALVE
- Automatic filling to target value of refrigerant weight, superheat, or subcooling
- Fail-safe operation: automatic closing when system is turned on and off
- Automatic filling specifically for optimizing superheat (Target Superheat)
- Bistable valve ensures low energy consumption

New



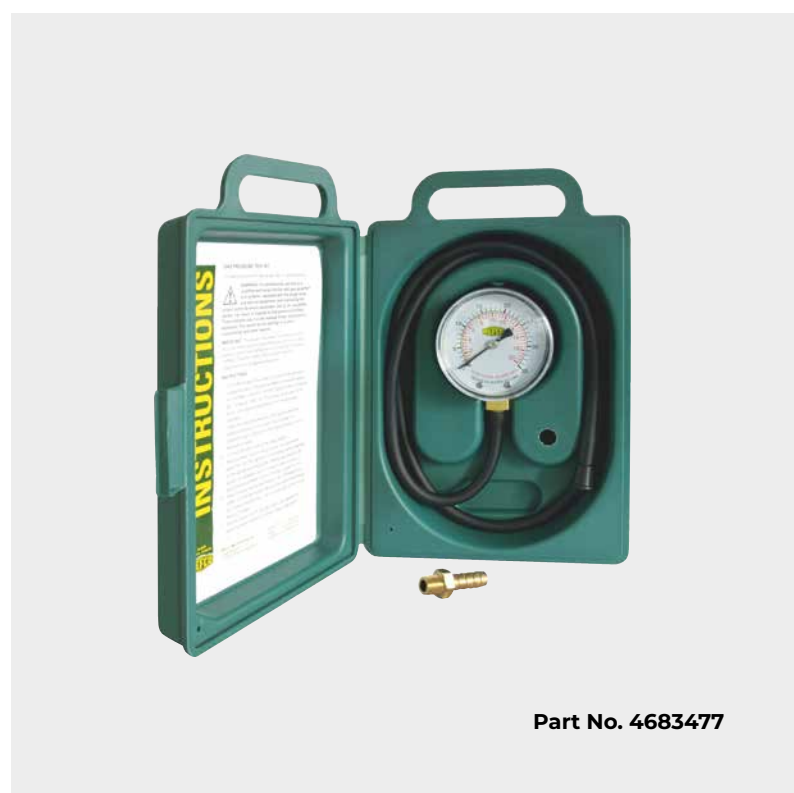
Part No. 4689024

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GPK-35

The GPK-35 **Gas Pressure Test Kit** allows for precise manifold pressure setting for natural and LP gases. It offers high accuracy with the sensitive diaphragm gauge and is easy to connect and use.



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LP-88

The LP-88 is a durable **infrared thermometer** with a pistol grip for contact-free temperature measurement. It features a laser pointer with eight red dots for easy targeting and comes in a protective case.

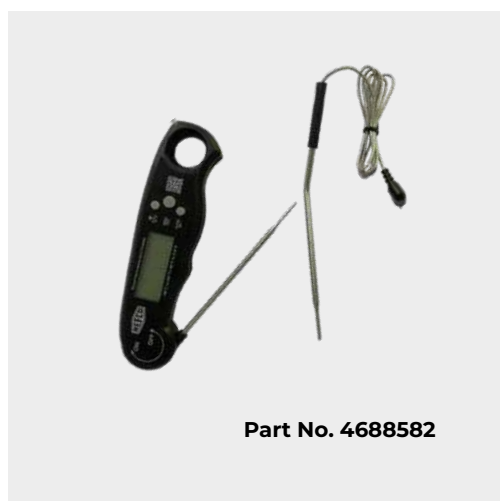


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MULTI-THERM

Digital dual probe thermometer featuring an integrated and external probe for measuring temperature at different points, with a fast response time, LCD backlight, ice water calibration, alarm function, auto off feature, and a magnet for easy attachment.



Part No. 4688582

DISCOVER
THE PRODUCT
ONLINE



REFCLAMP

The **wireless temperature clamp** with humidity sensor measures both the tube and air temperature as well as the humidity in the ambient air of mobile and stationary refrigeration systems and heat pumps.

BENEFITS

- Target Superheat, humidity measurement
- Tube temperature and air temperature measurement
- Calculation of wet bulb temperature
- Calculation of superheat and subcooling
- Temperature difference calculation - Delta T
- Ice water calibration
- Fast response time
- Simple operation with two buttons
- Real-time display of measured values on the clamp, the REFMATE, and the REF MESH app
- High range of 330 yards



REFCLAMP

Wireless temperature clamp with integrated humidity sensor, 1 pc.

Part No. 4688704

REFCLAMP-SET

Wireless temperature clamp set with humidity sensor, 2 pcs.

Part No. 4688733

DISCOVER
THE PRODUCT
ONLINE



TUBE CUTTERS

The durable telescopic tube cutters of the RS-series are designed for precise and efficient cutting of copper tubing, ranging from $\varnothing \frac{1}{8}"$ – $1 \frac{5}{8}"$, and include a practical deburring tool.



BENEFITS

- Precise cuts with three guide rollers
- Smooth adjustment for effortless handling
- End stop protects cutting wheel
- Includes spare cutting wheel
- Heavy-duty, long-lasting design

Designation	Description	Part No.
RS-16	1/8" to 5/8"	4682722
RS-25	1/8" to 1"	4682730
RS-35	1/8" to 1 3/8", incl. deb. tool	4682748
RS-42	1/8" to 1" 5/8, incl. deb. tool	4682756
RS-67	1/4" to 2 5/8", incl. deb. tool	4686904
RS-001/3	Spare cutting wheel, 3 pcs.	4687097
RFA-209-01/3	Spare blades for RS tube cutters, RFA-209 STYLO-HD, 3 pcs.	4687065

PINCH OFF TOOLS



14285

For up to $\varnothing \frac{3}{8}"$
suction tubes

Part No. 9881530



RFA-105-FF

For tubes with $\varnothing \frac{1}{4}"$, $\frac{5}{16}"$, $\frac{3}{8}"$ and $\frac{1}{2}"$

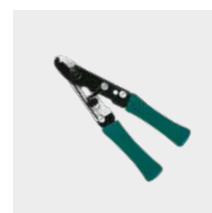
Part No. 9881528



14200

Pinch-off plier for
tubes up to approx.
 $\varnothing \frac{3}{8}"$

Part No. 9881527



14215

Capillary tube cutter,
without swaging the
tube

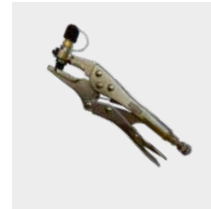
Part No. 9881087

DISCOVER
THE PRODUCT
ONLINE



RECOVERY-SERVICE PIERCING PLIERS

Designation	Description	Part No.
14210	Piercing plier with changeable piercing needle and access fitting	9881526
14210-01/10	Spare needles, 10 pcs.	4665550
BR-4IN1	Cleaning brush 4 in 1	4677621



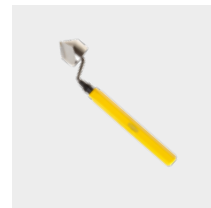
14210



BR-4IN1

DEBURRING TOOLS

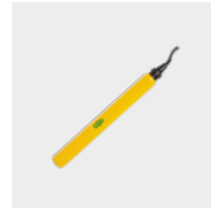
Designation	Description	Part No.
RFA-313-STYLO-HD	High quality deburrer in compact pen shape, rotatable head	4688790
RFA-313-STYLO-HD-HEAD	Spare head for RFA-313-STYLO-HD and RFA-209-STYLO-HD	4688791
RFA-242-HD	High quality deburrer with ergonomic handle	4688781
RFA-242-HD-HEAD	Spare head for RFA-242-HD. Also suitable for handle from 14142	4688792
RFA-209-STYLO-HD	Heavy duty deburrer with rotating blade	4687051
RFA-209-01/3	Spare blades for RFA-209-STYLO-HD and RS tube cutters	4687065
RFA-209-STYLO	Deburrer with rotating blade	9883750
RFA-209	Inner-outer reamer	9881649



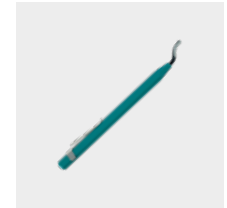
RFA-313-STYLO-HD



RFA-242-HD



RFA-209-STYLO-HD



RFA-209-STYLO



RFA-209-01/3



RFA-209

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ONLINE



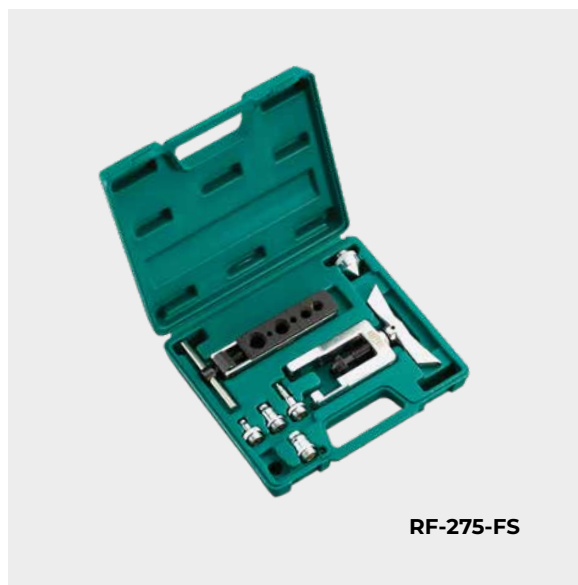
45° FLARING TOOLS

The 45° flaring tools offer precise and reliable flaring and swaging.

Designation	Description	Part No.
RF-888-Z	45° Eccentric flaring tool for tubes with an outside Ø of $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{5}{8}$ ", $\frac{3}{4}$ "	4506171
RF-275-FS	45° flaring and swaging tool in for tubes with an outside Ø of $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{5}{8}$ ", $\frac{3}{4}$ "	9881575
RF-175-FS	45° flaring and swaging tool for tubes with an outside Ø of $\frac{1}{8}$ ", $\frac{1}{4}$ ", $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{7}{16}$ ", $\frac{1}{2}$ ", $\frac{5}{8}$ ", $\frac{3}{4}$ "	4506198
525-F	Flaring and burnishing in one tool. Sizes from $\frac{3}{16}$ " to $\frac{5}{8}$ " O.D	9881571



RF-888-Z



RF-275-FS



RF-175-FS

DISCOVER
THE PRODUCT
ONLINE



TUBE BENDERS

HY-TELL

This hydraulic tube bender processes soft copper pipes with Ø from 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8".

- Bending angle assistance
- Little effort for tube bending
- Solid position on the desk
- Easy and quick change of the tools

Part No. 4688017

Designation	Bending adapters	Part No.
HY-TELL-BA-1/4"	1/4"	4688022
HY-TELL-BA-5/16"	5/16"	4688023
HY-TELL-BA-3/8"	3/8"	4688024
HY-TELL-BA-1/2"	1/2"	4688025
HY-TELL-BA-5/8"	5/8"	4688026
HY-TELL-BA-3/4"	3/4"	4688027
HY-TELL-BA-7/8"	7/8"	4688028
HY-TELL-SB	Cross bar short	4688029
HY-TELL-MB	Cross bar middle	4688030
HY-TELL-LB	Cross bar long	4688031
HY-TELL-ANGLE-MASTER	Angle master for HY-TELL	4688032



TELL-7

TELL-7-AD



HY-TELL

TELL-7

Cross-bow type tube bender for pipes with Ø from 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8". Delivered incl. tube cutter

Part No. 4666076

Designation	Bending adapters	Part No.
TELL-7-BA-1/4"	1/4"	4669432
TELL-7-BA-5/16"	5/16"	4669440
TELL-7-BA-3/8"	3/8"	4669458
TELL-7-BA-1/2"	1/2"	4669466
TELL-7-BA-5/8"	5/8"	4669475
TELL-7-BA-3/4"	3/4"	4669483
TELL-7-BA-7/8"	7/8"	4669491
TELL-7-SB	short bar	4669416
TELL-7-LB	Long bar	4669407
TELL-7-HANDLE	Handle complete	4669513
TELL-7-AD	Reverse bend adapter	4669679
TELL-7-WING-NUT	Wing nut	4686756

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THE PRODUCT
ONLINE



HY-EX-6

Hydraulic Expander Tool Set



Part No. 4687047



HY-OIL
*Hydraulic oil
for HY-EX*
Part No.
4687579

DISCOVER
THE PRODUCT
ONLINE



DESCRIPTION

The HY-EX-6 hydraulic expander tool kit simplifies the expansion of soft copper, aluminum, and brass tubing. It includes six interchangeable heads from 3/8" to 1 1/8" diameter and a sturdy deburring tool. Compact and lightweight, it ensures precise, effortless expansions with just a few pumps.

BENEFITS

- Easy single-hand operation:** Hydraulic mechanism and release button enable one-handed swaging.
- Compact pistol shape:** Fits into the smallest and hardest-to-reach spots.
- 120° ergonomic angle:** Reduces the effort required for pumping.
- Interchangeable heads:** Covers all common HVAC/R imperial tubing sizes.
- Deburring tool included:** RFA-209-STYLO-HD for precise installation of expander heads.
- Lightweight design:** 2.6 lbs for easy handling.

SPARE HEADS

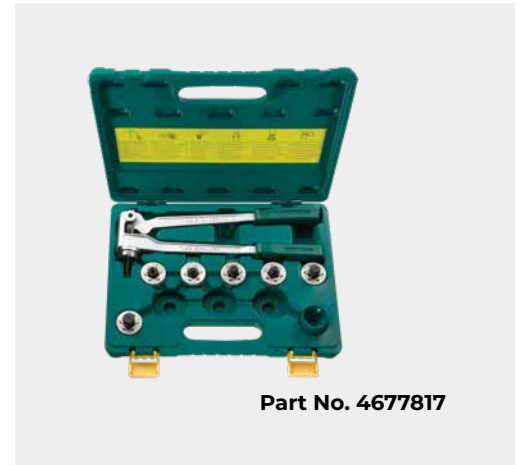
Designation	Spare heads	Part No.
HY-EX-1/4"	1/4"	4687344
HY-EX-5/16"	5/16"	4687346
HY-EX-3/8"	3/8"	4687367
HY-EX-1/2"	1/2"	4687366
HY-EX-5/8"	5/8"	4687365
HY-EX-3/4"	3/4"	4687368
HY-EX-7/8"	7/8"	4687369
HY-EX-1"	1"	4687345
HY-EX-1-1/8"	1 1/8"	4687370
HY-EX-1-1/4"	1 1/4"	4687478
HY-EX-1-3/8"	1 3/8"	4687347
HY-EX-1-1/2"	1 1/2"	4687477
HY-EX-1-5/8"	1 5/8"	4687348

14297-RF

Expander Tool Set including expander pliers and six heads in a practical and convenient box.

Designation	Spare heads	Part No.
14297-RF-3/8" *	3/8"	4669709
14297-RF-1/2" *	1/2"	4669717
14297-RF-5/8" *	5/8"	4669726
14297-RF-3/4" *	3/4"	4669734
14297-RF-7/8" *	7/8"	4669742
14297-RF-1"	1"	4669750
14297-RF-1-1/8" *	1 1/8"	4669768
14297-RF-1-3/8"	1 3/8"	4669776
14297-RF-1-5/8"	1 5/8"	4669785

* these heads are included in the set



RATCHET WRENCH

With its 72-teeth gear and rugged ratchet mechanism, this high-quality ratchet wrench ensures a perfect working angle for every task. The chrome finish allows for easy cleaning.

SW-127-C

- The ratchet wrench for compressors – designed for jobs in narrow spaces.
- Square: 1/4" x 3/16" | square: 5/16" x 3/8"

Part No 4687626



SW-127-OFFSET

- The ratchet wrench for compressors with 15° angulation – for unique handling in narrow spaces.
- Square: 1/4" x 3/16" | square: 5/16" x 3/8"

Part No 4687628



SW-124

- The combination ratchet wrench provides 4 sizes in one tool.
- 9/16" hex for dust cap on valves and for bolts on compressors
- 1/2" hex for screws | 1/4" square for valves
- 3/16" square for refrigerant cylinders

Part No 4687627



DISCOVER
THE PRODUCT
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VALVE CORE TOOLS

These ¼" SAE and 5/16" SAE schrader valve replacement tools are designed for faster vacuum, charging, and recovery, providing a tight seal even under vacuum.



BENEFITS

- Designed to speed up vacuum, charging, and recovery
- Vacuum tight: Ensures a reliable seal during operation
- Safe valve replacement: Replace defective Schrader valves under pressure without refrigerant loss, thanks to the built-in shut-off valve
- Included blank off valve and a 360° movable vacuum gauge access port which allows for easy access in tight spaces.

32525

- Valve core replacing tool with ¼"SAE connection
- Part No 4687701**

32525-5/16" SAE

- Valve core replacing tool, with 5/16"SAE connection
- Part No 4687740**



A-32000

- Valve core tool screwdriver with assembled core remover
- Includes six red valve cores and a thread cutter in the handle
- **Part No 9880890**



DISCOVER
THE PRODUCT
ONLINE



AUTO-MOTIVE SERVICE VALVES

Compact service valves $\frac{1}{4}$ " SAE for safe and efficient evacuation and filling of vehicle A/C systems, featuring durable chrome-plated finishes and six-ball quick-lock mechanisms.



RC01-R

Service valve, $\frac{1}{4}$ " SAE, red

Part No. 9884948



RC01-B

Service valve, $\frac{1}{4}$ " SAE, blue

Part No. 9884949

ACCESS VALVES

Designation	Size access control valve	Part No.
A-38010	$\frac{1}{4}$ " SAE x $\frac{1}{4}$ " SAE	4687957
A-38410	$\frac{1}{4}$ " SAE x $\frac{5}{16}$ " SAE	4687960
A-38410-5/16	$\frac{5}{16}$ " SAE x $\frac{5}{16}$ " SAE	4687989
A-33010	$\frac{1}{4}$ " SAE x $\frac{1}{4}$ " SAE	4681636
A-33410	$\frac{1}{4}$ " SAE x $\frac{5}{16}$ " SAE	4681645
A-31004/10	Ext. copper tube, $\varnothing \frac{1}{4}$ ", 10 pcs.	9883544
A-31006/10	Connecting piece with soldered-in copper pipe $\frac{1}{4}$ ", connection $\frac{1}{4}$ ", 10 pcs.	9884830
NFT5-4/10	Quick release cap $\frac{1}{4}$ " SAE, with seal, 10 pcs.	9884244
NFT-118/10	Quick release cap $\frac{1}{4}$ " SAE, with seal and built-in core remover, 10 pcs.	9884961



SOLENOID VALVE OPERATING MAGNET

SVOM-18

- Handy service magnet for opening magnetic valves
- Opening is 0.75 inch
- Part 4660507



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THE PRODUCT
ONLINE



CHARGE OIL PUMPS

21732 - 2-in-1 combined oil pump

The combined 2-in-1 oil pump 21732 allows oil to be pumped directly into the compressor crankcase and also enables suction of compressor oil for maintenance. It reduces filling time by 70%, preventing air and moisture ingress. Pressure range: Up to 87 psi.

Part No. 4688925

21702 - Charge oil pump

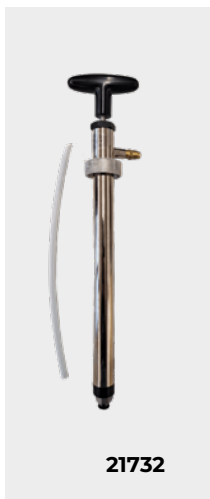
This hand pump allows oil to be pumped directly from the oil can into the compressor crankcase without air or moisture entering the system. It delivers 1.7 oz per stroke, reducing charging time by over 70%.

Part No. 9881559

21751 - Change oil pump

A robust pump for quick and easy oil recovery from A/C compressors without disassembly. Extraction capacity per pump stroke: 3.4 fl oz. Suction tube with a Ø of 5/16 inch and approximately 11.4 inches in length.

Part No. 9881557



21732



21702



21751

DISCOVER
THE PRODUCT
ONLINE



FIN COMBS

14142

6-in 1 fin comb with ergonomic handle and spare comb.

- Slats per inch: 8, 9, 10, 12, 14 or 15
- Made of high-quality plastic for durability

Part No. 9881562

14144

Ideal for quick cleaning and straightening all fins.

- Made from high-quality spring steel
- Adjustable tension

Part No. 9881561



14142

POCKET MIRROR

14225

Round pocket mirror with telescopic arm

- Ø 1.5"
- Telescope length from 5" to 19.7"
- With adjustable joint for different positions
- With retaining clip

Part No. 9881560



14225

REFPACK

This **ergonomic tool backpack** combines **durability** with **practicality**, offering tailored features to support your daily work.

BENEFITS

- Sturdy, waterproof plastic base tray
- Spacious main compartment
- Protected laptop/document compartment
- Side reinforcements for stable stand
- Two side pockets with lashing straps
- Flexible tabs for hoses
- Extra reinforced carrying handle

TECHNICAL DATA

Volume	10.3 gallons
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Filling weight	33 lbs
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Empty weight	5 lbs
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Delivered without contents	
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Part No. 4688642	
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Backpack delivered empty
(tools not included)

16868

Ergonomic piezo igniting head brazing torch
for propane MAP Pro gas cylinder.

BENEFITS

- Pressure adjustment function
- Safety locking system
- Focused cyclone flame with high temperature
- Removable flame diffuser

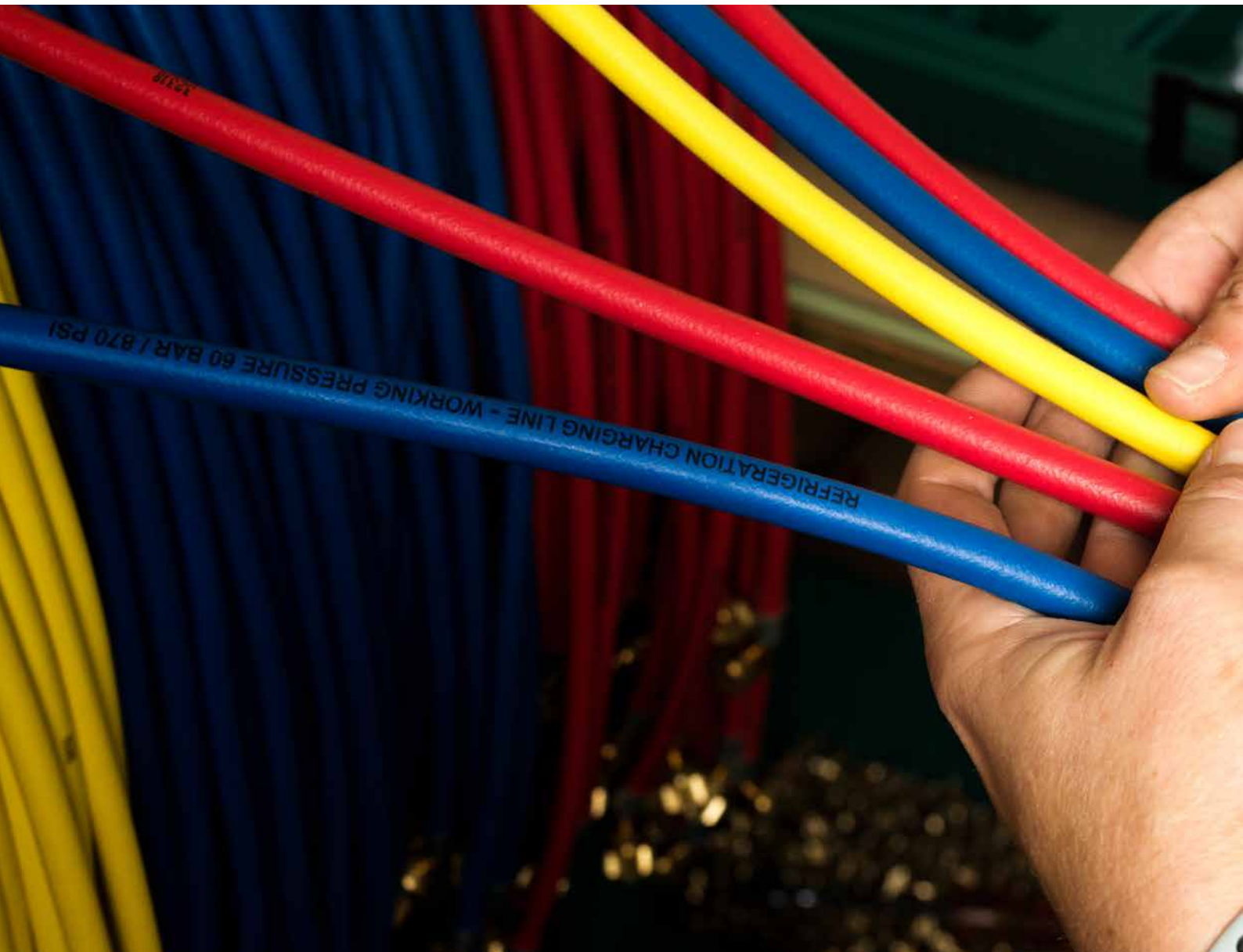
Part No. 4684066

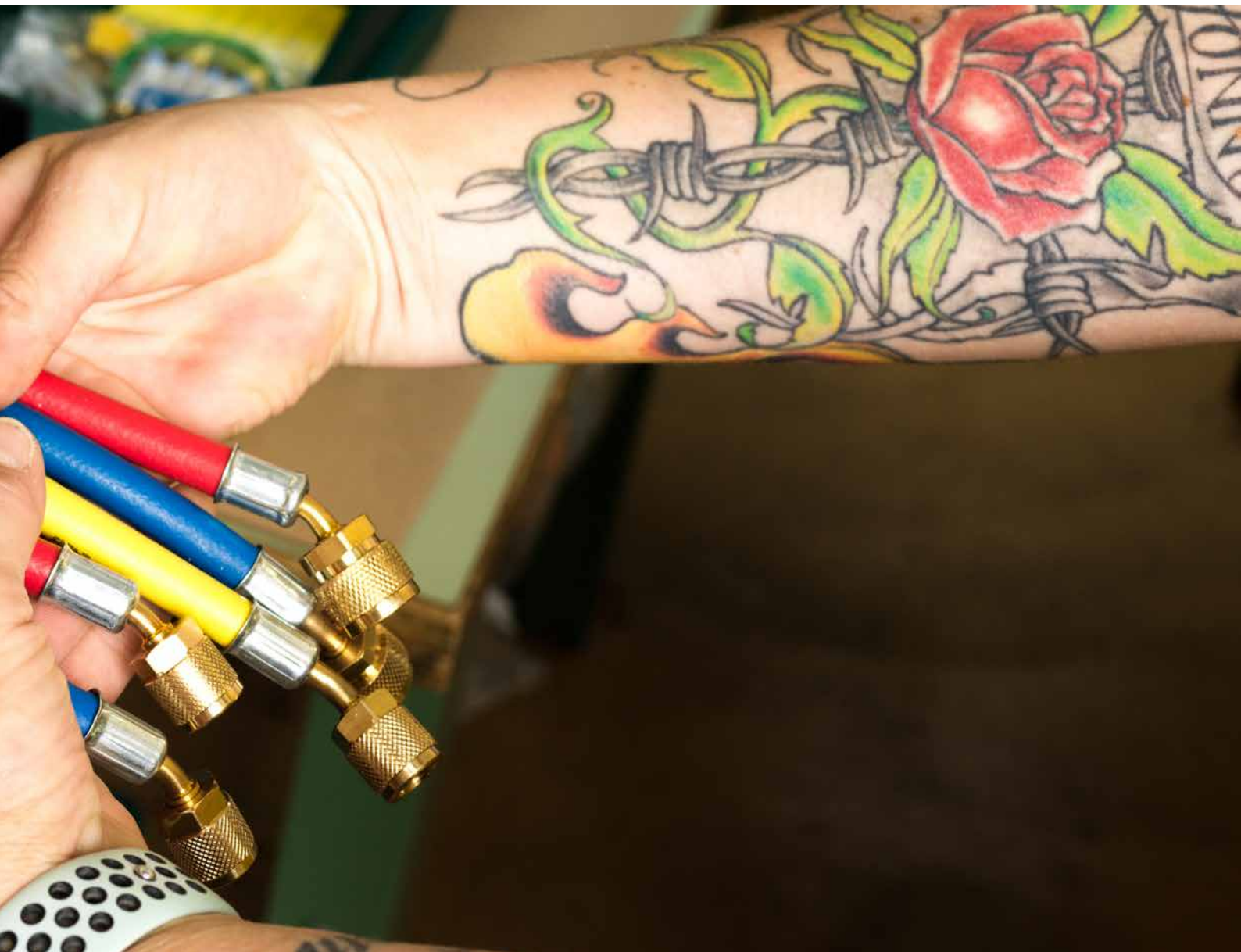


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