







REFCO Manufacturing (US) Inc. is pleased to introduce our new

full line catalog.

REFCO, headquartered in Hitzkirch (Switzerland) has long been recognized as a world leader in the manufacturing of service equipment for the refrigeration and air conditioning industry.

With this full line catalog, our manufacturing facility stocking warehouse in the USA and an excellent sales representative network, we will show North America what the rest of the world already knows, that REFCO Manufacturing (US) Inc. is the highest quality and best value refrigeration and air conditioning service tool manufacturer available today.

Manfred P. Ulrich President / CEO

Steve Secord Vice-President











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Jusiness & F. Conomy



Production

















































Trade Shows Worldwide





Germany, Chillventa



Italy, Mostra Convegno



UK, RAC



China, China Refrigeration









Mexico, AHR Expo



USA, ASHRAE Expo

Vacuum Pumps

Features for all RL-Vacuum Pumps

- Built specifically for the AC/R Industry
- Latest technology allows extremely compact size
- High-end materials result in low weight but top quality
- Compact, practical, long lifetime
- Sturdy ergonomic handle stays cool to the touch
- Large, easily accessible oil fill port to prevent spillage when filling
- Sight glass for easy viewing of the oil level
- Two-stage rotary vane pump in state of the art design for greater efficiency
- Easy to start, compact motor operates efficiently
- Internal oil pump with unique device to prevent any oil back suction
- Built-in on/off switch to prevent breakage or accidental shut off
- Gas ballast valve feature to help keep the oil clean and to reduce water vapor in the oil compartment
- Easily field replaceable one piece cartridge allows for rebuild without special tooling
- Special designed oil exhaust filter to reduce oil mist
- Quiet operation
- Swiss Quality product manufactured under ISO 9001

RL-2 1.35 cfm

• Includes DV-44 vacuum pump oil (0.5 pt. / 250 ml)

RL-8 6.4 cfm

- Large oil drain valve located at the front bottom of oil pan to allow for fast and easy oil change
- Modern metal, rugged pump design with high-tech plastic housing to absorb shocks
- Ergonomical design for even easier handling
- Lower point of gravity for higher stability
- Both ¼" and ¾" SAE inlet connections allow for flexibility of connections
- Integrated blank off ball-valve to isolate pump from system
- Includes DV-45 vacuum pump oil (1pt. / 500 ml)

RL-2



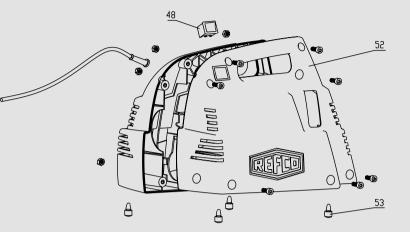


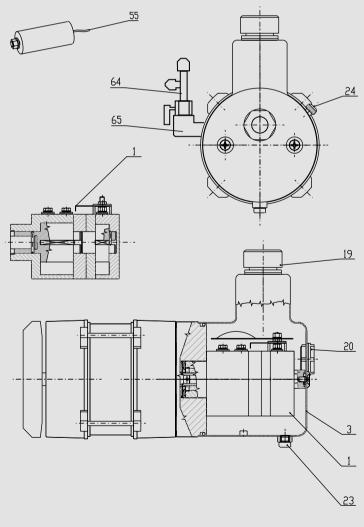
| Technical Data | RL-2 | RL-8 |
|-------------------------|--------------------------|--|
| Free air displacement: | 1.35 cfm | 6.4 cfm |
| Number of stages: | 2 | 2 |
| Microns: | 15 | 15 |
| Intake threads: | 1/4" SAE Flare | 1/4" and 3/6" SAE Flare with integrated ball valve |
| Motor: | 1/₅ horsepower, 2700 rpm | ½ horsepower, 3300 rpm |
| Voltage: | 115 Volt, 60 Hz | 115 Volt, 60 Hz |
| Power Cord Length: | 78" | 78" |
| Oil Capacity: | 0.25 pt. | 1 pt. |
| Recommended oil change: | Every 20 working hours | Every 20 working hours |
| Dimensions: | 10.5 x 6.5 x 7.5 inch | 14 x 8.6 x 9.8 inch |
| Weight: | 8.3 lbs | 26 lbs |
| Part No. | 4661601 | 4507356 |

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Spare Parts for RL-2, RL-4 and RL-8





Spare Parts for RL-2

| Pos. | Designation | Description | Part No. |
|------|--------------|---|----------|
| 3 | RL-2-3000 | Oil basin complete with gasket | 4661589 |
| 20 | RL-2-3011 | Oil sight glass with gasket + counter nut | 4661597 |
| 19 | RL-2/4-303 | Oil mist filter with gasket | 4495471 |
| 24 | RL-2/4-3060 | Gas ballast valve complete | 4661423 |
| 53 | RL-8-4071 | Rubber pad set (4 pieces) | 4507631 |
| 55 | RL-2-406 | Capacitor | 4661040 |
| 48 | RL-2/4/8-415 | Switch | 4496770 |
| 52 | RL-2-4000 | Housing complete | 4661538 |
| 1 | RL-2-2A | Vacuum stage complete | 4661482 |
| 64 | RL-2-64 | Intake port w/cap | 4668028 |

Spare Parts for RL-4

| Pos. | Designation | Description | Part No. |
|------|--------------|---|----------|
| 3 | RL-4-3000 | Oil basin complete with gasket | 4507674 |
| 20 | RL-4-3011 | Oil sight glass with gasket + counter nut | 4507682 |
| 23 | RL-4/8-310 | Oil drain plug with gasket | 4496761 |
| 19 | RL-2/4-303 | Oil mist filter with gasket | 4495471 |
| 24 | RL-2/4-3060 | Gas ballast valve complete | 4661423 |
| 53 | RL-8-4071 | Rubber pad set (4 pieces) | 4507631 |
| 55 | RL-4-406 | Capacitor | 4505051 |
| 48 | RL-2/4/8-415 | Switch | 4496770 |
| 52 | RL-4-4000 | Housing complete | 4661474 |
| 1 | RL-4-2A | Vacuum stage complete | 4661954 |
| 64 | RL-4-64 | Intake port w/caps | 4668036 |
| 65 | RL-4/8-65 | Intake elbow | 4668053 |
| | | | |

Spare Parts for RL-8

| Pos. | Designation | Description | Part No. |
|------|--------------|---|----------|
| 3 | RL-8-3000 | Oil basin complete with gasket | 4507607 |
| 20 | RL-8-3011 | Oil sight glass with gasket + counter nut | 4507615 |
| 23 | RL-4/8-310 | Oil drain plug with gasket | 4496761 |
| 19 | RL-8-303 | Oil mist filter with gasket | 4507445 |
| 24 | RL-8-3060 | Gas ballast valve complete | 4507623 |
| 53 | RL-8-4071 | Rubber pad set (4 pieces) | 4507631 |
| 55 | RL-8-426 | Capacitor set (2 pieces) | 4508203 |
| 48 | RL-2/4/8-415 | Switch | 4496770 |
| 52 | RL-8-4000 | Housing complete | 4507640 |
| 1 | RL-8-2A | Vacuum stage complete | 4507658 |
| 64 | RL-8-64 | Intake port w/caps, handle, screw | 4668045 |
| 65 | RL-4/8-65 | Intake elbow | 4668053 |

Vacuum Pumps

ECO Series Vacuum Pumps

- Designed specifically for HVAC/R Service
- Two stage rotary vane pump design
- Compact design with aluminum housing and easy to grip carrying handle
- Very quiet operation
- High pumping capacity reduces evacuation time
- Carrying handle stays cool to the touch
- Easy to start
- Both ¼" and ¾" SAE flare inlet connections allow for flexibility of connections
- Vacuum pump oil included
- Value priced but still manufactured to the highest quality and performance specifications



NEW: DUAL VOLTAGE

| Technical Data | ECO-5 | ECO-5-DV | ECO-9 |
|------------------------|-------------------------|-----------------------|-------------------------|
| Free air displacement: | 5.0 cfm | 5.0 cfm | 9.0 cfm |
| Number of stages: | 2 | 2 | 2 |
| Microns: | 15 | 15 | 15 |
| Intake threads: | 1/4" and 3/8" SAE Flare | 14" and 3%" SAE Flare | 1/4" and 3/8" SAE Flare |
| Motor: | ½ horsepower | ½ horsepower | 1 horsepower |
| Voltage: | 115 Volt, 60 Hz | 115/230 Volt, 60 Hz | 115 Volt, 60 Hz |
| Power cord length: | 78" | 78" | 78" |
| Oil capacity: | 9.5 oz / 0.6 pt. | 9.5 oz / 0.6 pt. | 20 oz / 1.25 pt. |
| Dimensions: | 14 x 5 x 10 inch | 14 x 5 x 10 inch | 16 x 6 x 11 inch |
| Weight: | 24 lbs | 28 lbs | 37 lbs |
| Part No. | 4667685 | 4682692 | 4669661 |











DV-44/45/46

Spare Parts for ECO Series

| Pos | . Designation | Description | Part No. |
|-----|----------------|-----------------------------------|----------|
| 1 | ECO-3/5/9-1 | Rubber feet | 4667757 |
| 2 | ECO-3/5/9-3 | Oil drain plug | 4667774 |
| 3 | ECO-3/5/9-4 | Handle | 4667782 |
| 4 | ECO-3/5/9-5 | Oil fill cap (yellow) | 4667790 |
| 5 | ECO-3/5/9-8 | Protection cap | 4667820 |
| 5 | ECO-3/5-20N | Exhaust cap for ECO-3/5 | 4684580 |
| 5 | ECO-9-20 | Exhaust cap for ECO-9 | 4684604 |
| 6 | NFT5-4-K-Green | Seal flare cap 1/4" for ECO-3/5/9 | 4676110 |
| 7 | NFT5-6-K-Green | Seal flare cap %" for ECO-5/9 | 4676128 |
| 8 | ECO-3-9 | On/Off switch | 4678911 |
| 8 | ECO-5-9 | On/Off switch | 4678929 |
| 8 | ECO-9-9 | On/Off switch | 4678937 |
| 9 | ECO-3-10 | Fan cover for ECO-3 | 4678946 |
| 9 | ECO-5-10 | Fan cover for ECO-5 | 4678954 |
| 9 | ECO-9-10 | Fan cover for ECO-9 | 4678962 |
| 10 | ECO-3-11 | Fan blades for ECO-3 | 4678970 |
| 10 | ECO-5-11 | Fan blades for ECO-5 | 4678988 |
| 10 | ECO-9-11 | Fan blades for ECO-9 | 4678996 |
| | | | |



Vacuum Pump Oil for RL-2, RL-4, RL-8, ECO Series

 REFCO Vacuum pump oil is specifically manufactured to allow your vacuum pump to operate efficiently in different types of operating conditions

| Designation | Description | Part No. |
|-------------|-----------------------------------|----------|
| DV-44 | 0.5 pint (250 ml) Vacuum pump oil | 4495340 |
| DV-45 | 1 pint (500 ml) Vacuum pump oil | 4495358 |
| DV-46 | 1 quart (1000 ml) Vacuum pump oil | 4495366 |

Recovery

ENVIRO

This state of the art, one-knob operation recovery machine allows for recovery of all popular CFC, HCFC and HFC refrigerants including R410A. The oil-less, aircooled compressor assures efficient and fast operation, making irritating oil changes unnecessary. In comparison to other compressors, this unit runs extremely quiet and without vibrations. Oil-filled gauges allow for an even easier reading. The compact and ergonomic design as weil as the rugged construction provide maximum protection during transport and usage. The ENVIRO is equipped with a self-purging mode as weil as a built in filter which is easy to clean and replace.

Technical Data:

• Compressor: ¾ hp, oil-less, maintenance free

• Power supply: 115 V, 60 Hz

Gauge: Oil-filledWeight: 32 lbs

Dimensions: 16 x 10 x 14 inCertified to AHRI 740

Recovery Rate:

• Vapour rate: up to max. 0.80 lbs/min

• Liquid rate: up to 5 lbs/min

• Push-pull up to max. 14 lbs/min

Part No 4684593











ENVIRO DUO

This high performance, state of the art, one-knob operation recovery machine allows for maximum recovery of all popular CFC, HCFC and HFC refrigerants including R410A. The oil-less, air-cooled, 2-piston compressor makes an impact due to its impressive performance. Oil-filled gauges allow for easier reading. Even in close proximity, the noise level during operation is low in comparison to common compressors. The compact and ergonomic design as well as the rugged construction provide maximum protection from transport and usage. The ENVIRODUO is equipped with an 80% overfill-protection. Additionally the unit is equipped with a self-cleaning mode as well as a built in filter which is easy to clean and replace.



• Compressor: 1 hp, oil-less, maintenance free

Power supply: 115 V, 60 Hz

Gauge: Oil-filledWeight: 35 lbs

Dimensions: 16 x 10 x 14 inCertified to AHRI 740

Recovery Rate:

• Vapour rate: up to max. 1.2 lbs/min

• Liquid rate: up to max. 7.7 lbs/min

• Push-pull rate: up to max. 21 lbs/min

Part No 4684605





ENVIRO DUO

Recovery

POWERMAX

Refrigerant Recovery Machine

The POWERMAX is a lightweight 22 lbs recovery system with the 1 horsepower oil-less Wizard compressor.

No other recovery system on the market is this light with a 1 horsepower compressor. The unit has a durable plastic case design which recovers all high pressure refrigerants including R12, R134a, R22, R401, R402, R404, R406, R407, R409, R410A, R411, R412, R500, R502, R507, R509 as well as many other blends.

Features

- 1 horsepower oil-less compressor
- Easy two-hose refrigerant recovery system
- Two connection systems provides automatic, straight through, liquid vapor operation
- Self-evacuation feature
- Recovery rates up to 5 lbs/minute liquid and ½ lbs/minute vapor
- Weighs only 22 lbs
- Durable plastic case, well balanced and portable

Additional Features

- Made in the USA
- High pressure safety switch
- Re-settable circuit breaker
- Over-sized condenser
- Large air cooled 7 inch fan
- Cylinder overfill protection
- Connection fittings point away from operator
- Easy to operate, oversized control knobs
- 2 year warranty
- UL certified to AHRI 740

Part No. 4663239



Spare Parts POWERMAX

Recovery Ratings POWERMAX:

| | Push/Pull | Standard | Standard |
|-------------|---------------------|---------------------|--------------------|
| Refrigerant | Liquid (lbs/min) | Liquid (lbs/min) | Vapor (lbs/min) |
| R-12 | 10.25 | 3.75 | .41 |
| R-22 | 11.97 | 5.00 | .53 |
| R-502 | 10.70 | 4.20 | .42 |
| R134a | 10.45 | 4.10 | .41 |
| R-410A | 17.97 | 4.56 | .48 |

| Designation | Description | Part No. |
|--------------|---|----------|
| ALF-032 | Inlet filter | 4670414 |
| 2277 | Tune-up kit | 4674079 |
| 400-15 | Circuit breaker (12-Amp) | 4671011 |
| 1997-1 | Safety cable | 4670406 |
| 1997-10 | Jumper plug for safety cable (2 pieces) | 4674087 |
| 2070-10 | Power cord | 4671526 |
| 3000-60 | Drive belt | 4670562 |
| 3000-72 | Valve plate w/gaskets | 4672441 |
| 3000-73 | Gasket kit | 4674096 |
| AA-30 | 30# Recovery tank | 4674681 |
| AA-50 | 50# Recovery tank | 4674699 |
| CONTROL-KNOB | Control knob rebuild | 4674478 |



OZ-4000

Refrigerant Recovery Machine

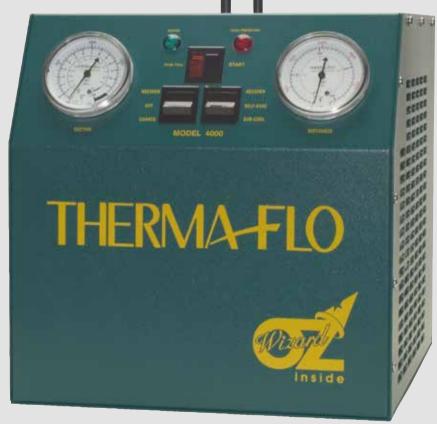
The machine that sets the HVAC/R Industry Standard

Due to the patented solenoid system design and a simple 4 hose hook up, the OZ-4000 can go from the push pull method (17 lbs/minute) to ½ lbs/minute in vapor recovery with no hose changes and without shutting off the unit.

Features

- 1 horsepower oil-less Wizard compressor inside
- Fully automatic
- Patented automatic subcool feature
- Lightweight 29 lbs
- Signal lights to indicate liquid to vapor recovery modes and high pressure shut-off
- Safety shut-off to prevent tank overfill
- Over-sized condenser
- Re-settable circuit breaker
- Self-evacuation feature
- Shipped with safety cable and 3 72" hoses
- Self-discriminates between liquid and vapor, routing the liquid around the compressor for longer life and maximum capacity
- 2 year warranty
- Over 150'000 units sold since 1992

Part No. 4663247



OZ-4000

Spare Parts OZ-4000

| Recovery Ratings OZ-4000: | | | | |
|---------------------------|-----------|-----------|-----------|--|
| | Push/Pull | Standard | Standard | |
| | Liquid | Liquid | Vapor | |
| Refrigerant | (lbs/min) | (lbs/min) | (lbs/min) | |
| R-12 | 10.00 | 3.24 | .25 | |
| R-22 | 10.25 | 3.50 | .40 | |
| R-502 | 10.50 | 4.09 | .46 | |
| R134a | 10.00 | 3.42 | .25 | |
| R-410A | 10.25 | 3.50 | .35 | |
| | | | | |

| Designation | Description | Part No. |
|-------------|---|----------|
| ALF-032 | Inlet filter | 4670414 |
| 2277 | Tune-up kit | 4674079 |
| 400-15 | Circuit breaker (12-Amp) | 4671011 |
| 1997-1 | Safety cable | 4670406 |
| 1997-10 | Jumper plug for safety cable (2 pieces) | 4674087 |
| 2070-10 | Power cord | 4671526 |
| 3000-9-1 | Ball valve | 4671801 |
| 3000-60 | Drive belt | 4670562 |
| 3000-72 | Valve plate w/gaskets | 4672441 |
| 3000-73 | Gasket kit | 4674096 |
| AA-30 | 30# Recovery tank | 4674681 |
| AA-50 | 50# Recovery tank | 4674699 |
| | | |

Pressure Gauges

REFCO Gauges General Information

Class 1 vs. Class 1.6 vs. Class 2 accuracy gauges

Class 1 gauges are accurate within ± 1 percent reading all the way around the gauge dial. These gauges are the most accurate offered by REFCO.

Class 1.6 gauges are accurate within ±1.6 percent reading all the way around the gauge dial. These gauges are also very accurate and are the standard accuracy gauge offered by REFCO.

Class 2.0 gauges are accurate within ± 2 percent over the first $\frac{1}{3}$ of the gauge dial, ± 3 percent over the next $\frac{1}{3}$ of the gauge dial and then ± 2 percent over the last $\frac{1}{3}$ of the gauge dial. This is commonly called 2-3-2 accuracy. These gauges are least accurate where most of the readings are taken.

REFCO uses as standard on manifolds
Class 1.6 accuracy gauges and on higher end
manifolds Class 1.0 accuracy gauges.
Most competitors use as standard the
Class 2 or 2-3-2 accuracy gauges. This
makes REFCO manifolds more accurate.
REFCO DOES NOT USE ANY CLASS 2 or
2-3-2 accuracy GAUGES ON ITS
MANIFOLDS. Unlike many service tool
suppliers REFCO manufactures their
own gauges.

SWISS movement



Standard Refrigerant Temperature Scales:

R12 = R12/R22/R502 R22 = R22/R134a/R404A R32 = R32/R410A R134a = R134a/R404A/R507

R410A = R410A

R410A-FG = R410A/R404A/R22

Standard Pressure Scales:

R12, R22 and R134a gauges: Low side 30" vacuum up to 120 psi, retard protection to 350 psi High side 0 psi up to 500 psi

R410A gauges: Low side 30" vacuum up to 500 psi





Standard Features of REFCO KM2 and M2 Series Class 1.6

Bourdon Tube Gauges are:

- Class 1.6 accuracy
- 2 ¾" or 68 mm outside diameter
- Zero point adjustable
- Pulse free
- Color-coded for pressure and compound
- Standard 1/8" NPT bottom connection
- All brass internal parts, no plastic

Standard Features of REFCO GR Series, Glycerine, Class 1.6

Bourdon Tube Gauges are:

- Class 1.6 accuracy
- 2 ¾" or 68 mm outside diameter
- Glycerine-filled
- Standard 1/8" NPT bottom connection
- All brass internal parts, no plastic

Same features for GR Series but with:

- Zero point adjustable
- Color-coded for pressure and compound



Standard Features of REFCO M5 Series Class 1.0

Bourdon Tube Gauges are:

- O Class 1 accuracy
- O 3 1/4" or 80 mm outside diameter
- O Easy to read
- O Retard protection
- O Zero point adjustable
- O Pulse free
- O All brass internal parts, no plastic

Standard Features of REFCO R3 and R5 Class 1.0

Bellow Gauges are:

- Bellow type gauges are extremely over-pressure resistant.
 A bellow type gauge can withstand up to 2.5 times over-pressurization of the printed pressure scale without damage to the gauge.
 - A bourdon tube gauge cannot withstand this type of over-pressurization
- ◆ Class 1.0 accuracy
- Available in 2 ¾" (68 mm) or 3 ¼" (80 mm), both large and easy to read. PM series only available in 3" (76 mm)
- ◆ Zero point adjustable
- ◆ Silicone oil-filled, except PM series
- ◆ Aluminum anodized body for R3 and R5 series
- ◆ PM series is made with a fiberglass body
- Hermetically sealed, no oil fill plug on the top of the gauge to allow seepage or leakage for R3 and R5 series
- Color-coded for pressure and compound
- ◆ Standard 1/8" NPT bottom connection
- ◆ All brass or steel internal parts, no plastic
- Relief device on back of gauge in case of extreme over-pressurization for R3 and R5 series

Pressure and Vacuum Gauges

General Information:

Standard threaded connection - 1/8" NPT

F = pressure scale on gauge in psi and temperature scale in degrees F

Temperature scales:

R12 = R12/R22/R502 R22 = R22/R134a/R404A

R32 = R32/R410A

R134a = R134a/R404A/R507

R410A = R410A

R410A-FG = R410A/R404A/R22

Pressure scales:

R12, R22, R134a gauges:

Low side 30" vacuum up to 120 psi, retard to 350 psi

High side 0 psi up to 500 psi

R410A:

Low side 30" vacuum up to 500 psi High side 0 psi up to 800 psi

Pressure Gauges

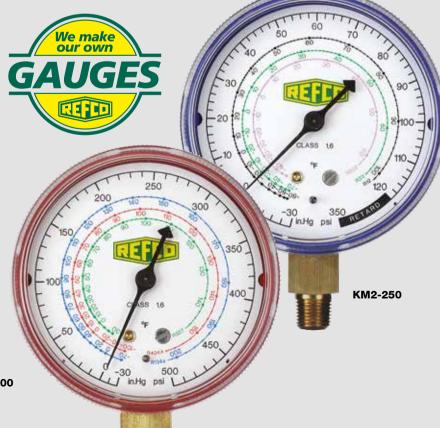


Standard Bourdon Tube Pressure Gauges

KM2 standard series

- Class 1.6 accuracy, bourdon tube design
- 2 ¾" (68 mm) outside diameter, easy to read
- Zero point adjustable
- Pulse free
- Color coded for easy high and low side identification
- Composite housing
- Standard 1/8" NPT connection
- Gauge internals are all brass, no plastic pieces

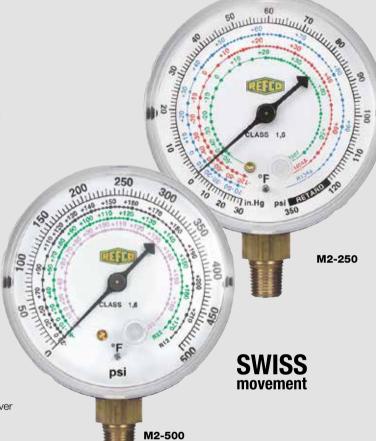
| Designation | Description | Part No. |
|-----------------|--------------------------|----------|
| KM2-250-F-R12 | R12/R22/R502 scales, | |
| | compound | 4530152 |
| KM2-500-F-R12 | R12/R22/R502 scales, | |
| | pressure | 4530161 |
| KM2-250-F-R22 | R22/R134a/R404A scales, | |
| | compound | 4505417 |
| KM2-500-F-R22 | R22/R134a/R404A 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 |
| | | _ |
| | | |



KM2-500







M2 Premium Series

• Standard all metal housing and easy to read through lens cover

• Class 1.6 accuracy, bourdon tube design

• 2 ¾" (68 mm) outside diameter, easy to read

- Zero point adjustable
- Pulse free
- Color-coded for easy high and low side identification
- Standard 1/8" NPT connections
- Gauge internals are all brass, no plastic pieces

| Designation | Description | Part No. |
|-------------------|----------------------------|----------|
| 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 | R410/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 |





Zero point adjustment

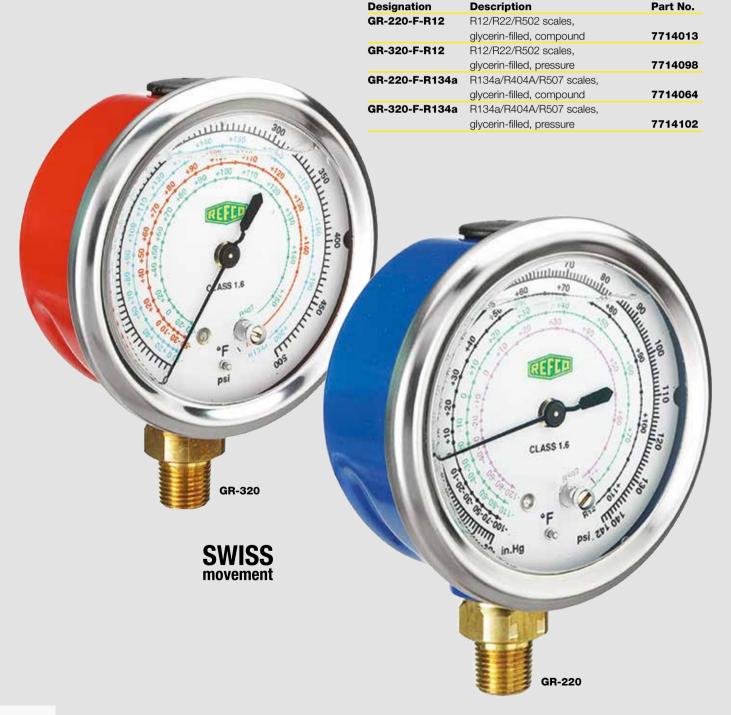
Pressure Gauges

Bourdon Tube Gauges
Glycerin Filled and dry Execution

GR Series

Glycerin Filled Gauges

- Class 1.6, glycerin filled, bourdon tube gauge
- Zero point adjustable
- Color-coded for easy high and low side identification
- 2 ¾" (68 mm) outside diameter, easy to read
- Pulso fron
- Standard 1/8" NPT connection

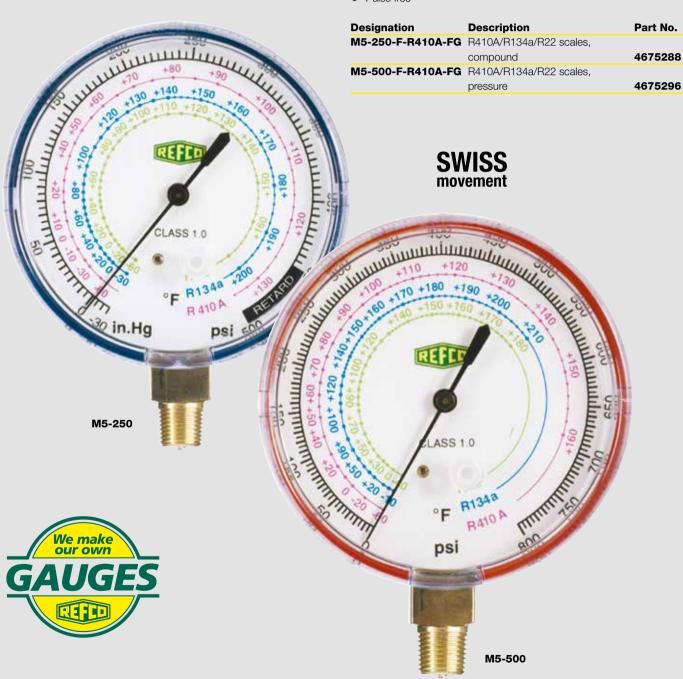




M5 Series

Large Bourdon Tube Gauges

- 3 1/4" (80 mm) outside diameter, easy to read
- Bourdon tube, Class 1.0 accuracy
- Retard protection
- Zero point adjustable
- Metal housing
- Pulse free



Pressure Gauges

Bellow Type, Class 1.0 Gauges, Oil Filled and Dry Execution

Fundamentals of a Bellow Gauge - The best gauge you'll ever have.

A metal bellow type gauge is very sensitive and therefore much more accurate than a standard bourdon tube gauge.

The main benefit of a bellow type gauge is that it is extremely accurate and highly over-pressure resistant.

The bellow gauge is accurate within 1% around the gauge face and can withstand up to 2.5 times over-pressurization without damage to the gauge.

A bourdon tube gauge would never withstand this type of overpressurization.

R3-320

R3 Series

Oil Filled Bellow Type Gauges

- Bellow type, Class 1.0 accuracy, oil filled gauge
- Hermetically sealed, no oil fill plug on the top of gauge to allow leakage
- Highly over-pressure resistant, can withstand up to 2.5 times the printed scale
- Zero point adjustable
- All anodized aluminum body, no plastic
- Color-coded for easy identification of high and low side
- 2 ¾" (68 mm) outside diameter, easy to read
- Pulse free

| 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 |
| | | |

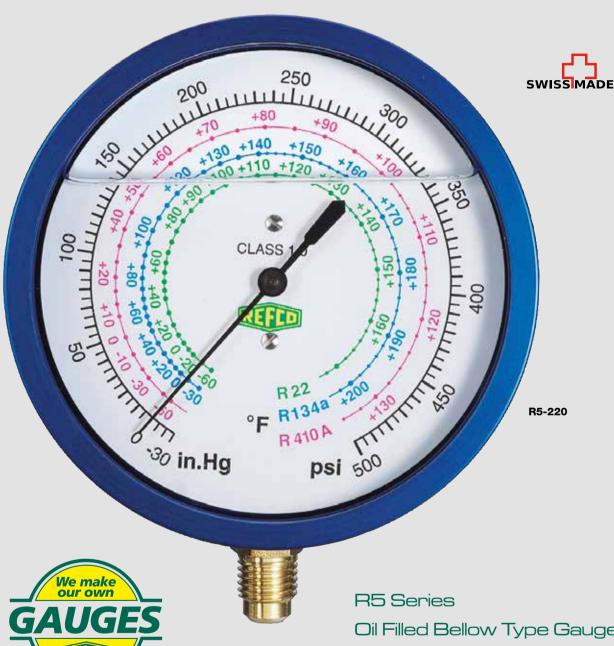






Zero point adjustment





Oil Filled Bellow Type Gauges

• All of the R3 features except it has a larger outside diameter of 3 ¼" (80 mm) for an extra easy to read gauge face

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

Vacuum Gauges

Mechanical Vacuum Gauges

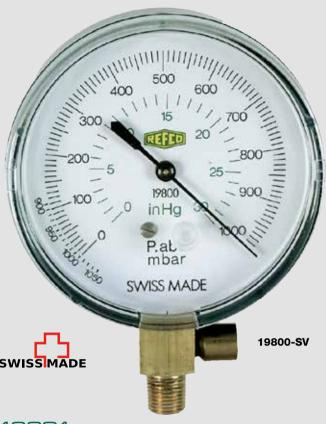
19800-SV

- Full range Mechanical Vacuum gauge
- Complete with replaceable safety relief device if positive pressure is introduced into gauge
- 3 ¼" outside diameter for easy to read, more accurate reading than a compound gauge
- 1/8" NPT bottom connection
- Zero point adjustable
- Scales in 1000 0 mbar and 30" 0 Hg

| Designation | Description | Part No. |
|-------------|----------------------------------|----------|
| 19800-SV | Mechanical Vacuum gauge with | |
| | replaceable safety relief device | 9882473 |







19801

- Full range Mechanical Vacuum gauge with pointer that indicates maximum vacuum reading attained during a given operation
- Readjustable after each use by a thumbscrew
- Complete with replaceable safety relief device if positive pressure is introduced into gauge
- 4" outside diameter for easy reading, more accurate reading than a compound gauge
- 1/2" G bottom connection
- Scale in 1000 0 mbar
- Zero point adjustable

| Designation | Description | Part No. |
|-------------|--------------------------------------|----------|
| 19801 | Mechanical Vacuum gauge with | |
| | maximum pressure indicator pointer | |
| | and replaceable safety relief device | 9882474 |

Spare Parts

for Mechanical Vacuum Gauges

| Designation | Description | Part No. |
|-------------|-------------------------------|----------|
| 19803/2 | Adapter ½" G female x ¼" SAE, | |
| | with integrated gasket, | |
| | packaged 2 per | 4687098 |
| 19805-12/2 | Replaceable safety valve for | |
| | 19800-SV and 19801, | |
| | packaged 2 per | 4687078 |





Electronic Vacuum Gauge

REF-VAC

Latest measuring instrument for continuous reading of measured values during the evacuation process out in the field as well as in the laboratory. Thanks to the large LCD display, the changing data can always be read easily. The vacuum gauge can be set to the main vacuum units such as microns, mbar, Pa, Torr, mTorr, psi, and inHG. It can accurately display the vacuum from 18'000 - 0 microns. The unit also has a practical hook for hanging and conforms to the IP classification IP 54.

Sensor Type: Thermistor

• Vacuum Range: 0-18000 microns

• Display-Resolution: 0-20: 0.2 micron

21-200: 1 micron 201-500: 5 micron

• Units: microns, mbar, Pa, Torr, mTorr, psi, inHG

• Accuracy: +/-10% - 100 microns

+/-6% - 101-750 microns

• Connector Type: Standard male 1/4 inch SAE

• Operating Temp.: 32°F-104°F

• Auto Shutoff: After 10 min. if vacuum value greater than

18000 microns

After 30 min. if vacuum value less than

18000 microns

Battery Life: 40 hours

Overpressure: Max. 500 psiHanging hook included

Part No 4686712

| Designation | Description | Part No. | THE STATE OF THE S |
|-------------|-----------------------|--------------------------|--|
| T6-4/5 | 1/4" SAE x 1/4" SAE x | 1/4" SAE T-Fitting, | |
| | 5 pieces | 4687141 | No. of the last of |
| and a | T6-4 | New with Forged Brass To | |
| | - | | |

REF-VAC

| Designation | Description | Part No. |
|-------------|---------------------|----------|
| SWIVEL-ARM- | | |
| 1/4"SAE-N | Swivel arm 1/4" SAE | 4687631 |



ON/OFF

LIGHT

Manifolds

DIGIMON - Digital Manifold

DIGIMON-SE

User friendly 2-way and 4-way digital manifold for the efficient and safe maintenance and operation of air conditioning and refrigeration systems. The latest generation is characterized by its compact design and sturdy construction. The modern display allows for, superheating, subcooling, vacuum levels and leakage test to be shown along with the pressure and temperature reading. Additionally, in analog mode, the digital figures are displayed visually. The DIGIMON meets the most important requirements for a digital manifold and is available in various versions. Available accessories include K-Type thermocouple as well as an external vacuum sensor.

- 48 refrigerant tables incl. R410A, R744(C02), R1234yf
- Analog and digital display
- Accuracy: class 1.0
- Pressure resolution: 0.5 psi / 0.01 bar / 1kPa / 0.001 MPa
- Pressure gauge from -14 psi to 870 psi
- Direct calculation and display of superheat and subcool
- 2 precise K-Type temperature sensors
- Internal and external vacuum sensor
- Leak Test function
- Backlit LCD display with multiple protection
- User Friendly operation
- Fiber reinforced ergonomic knobs
- Automatic power-save mode
- Low battery indicator
- Continuous measuring rate

Part No. 4686749





Vacuum indication with DIGIMON-VAC

| Designation | Description | Part No. |
|-----------------|----------------------------|----------|
| DIGIMON-CLAMP | K-Type thermocouple clamp | 4681466 |
| DIGIMON-SENSOR- | | |
| K-TYPE | K-Type temperature sensor | 4681394 |
| DIGIMON-SE-CASE | Carrying case with storage | |
| | compartment for the | |
| | digital manifold | 4686730 |
| DIGIMON-VAC | External vacuum sensor | 4686713 |
| | | |







DIGIMON-CLAMP





LP R134a HP SET SET SET 4.9 60 liq po 1.7 psi pc 20.0 psi to -2.0 °F to 45.0 °F

DIGIMON-SE Analog Display

2-WAY DIGITAL MANIFOLD

| Designation | Description | Part No. |
|---------------|------------------------------------|----------|
| DIGIMON-SE-8 | Digital 2-way manifold, | |
| | with 2 K-type temperature sensors, | |
| | packed in a sturdy plastic case | 4686749 |
| DIGIMON-SE-3 | Digital 2-way manifold, | |
| | 5' set hoses, packed in a sturdy | |
| | plastic case | 4686750 |
| DIGIMON-SE-3- | as above including, K-Type | |
| CLAMP | thermocouple clamp | 4684589 |
| DIGIMON-SE-3- | as above including, K-Type | |
| CLAMP-VAC | thermocouple clamp + vacuum | |
| | gauge | 4684590 |

4-WAY DIGITAL MANIFOLD

| Designation | Description | Part No. |
|-------------|--------------------------|----------|
| DIGIMON4-3- | Combination of DIGIMON4, | |
| CLAMP-VAC | DIGIMON-CLAMP and | |
| | DIGIMON-VAC | 4684591 |



DIGIMON-SE Accessory Chart

| Designation | 2-way | 4-way | 5 foot | Case | К-Туре | K-Type | Vacuum | Part No. |
|------------------------|----------|----------|----------|------|--------------|--------|--------|----------|
| | manifold | manifold | hose set | | thermocouple | clamp | gauge | |
| DIGIMON-SE-8 | Χ | | | Χ | X2 | | | 4686749 |
| DIGIMON-SE-3 | Χ | | Χ | Χ | X2 | | | 4686750 |
| DIGIMON-SE-3-CLAMP | Χ | | Χ | Χ | X2 | X2 | | 4684589 |
| DIGIMON-SE-3-CLAMP-VAC | X | | Χ | Χ | X2 | X2 | Χ | 4684590 |
| Digimon4-3-CLAMP-VAC | | X | Χ | Χ | X2 | X2 | X | 4684591 |

Manifolds

REFCO Manifolds General Information





APEX Manifolds

R410A Manifold

Standard Two-Way Brass Manifold • R410A manifold with refrigerant scales R22/R134a/R410A

- Same features but with all metal housing gauges (M2)
- Class 1.6 bourdon tube gauges (KM), easy to read, zero point adjustable, pulse free and color-coded
- Two piece, O-ring seal piston style valve, repairable
- Swivel hook and 45° hose anchors
- Color-coded handwheels • High quality brass body





APEX-9





APEX-9

| Designation | Hoses | Packaging | Part No. |
|-----------------------|--------|-----------------|----------|
| APEX-9-F-R12 | none | blister package | 4675458 |
| APEX-9-F-R22 | none | blister package | 4675466 |
| APEX-9-F-R134a | none | blister package | 4675475 |
| APEX-7-F-R12 | 3' set | blister package | 4675377 |
| APEX-7-F-R22 | 3' set | blister package | 4675386 |
| APEX-7-F-R134a | 3' set | blister package | 4675394 |
| APEX-7-F-R12-CCL-60 | 5' set | blister package | 4675416 |
| APEX-7-F-R22-CCL-60 | 5' set | blister package | 4675424 |
| APEX-7-F-R134a-CCL-60 | 5' set | blister package | 4675432 |
| APEX-7-F-R32-CCL-60 | 5' set | blister package | 4687455 |

| Designation | Hoses | Packaging | Part No. |
|-----------------------------|--------|-----------------|----------|
| 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 | blister package | 4686280 |

Manifolds

BM Series Manifolds

Premium Two-Way Manifold

- All metal housing Class 1.6 bourdon tube gauges (M2), easy to read, zero point adjustable, pulse free and color coded
- Two-piece, O-ring seal piston style valve
- Extra large sight glass to view refrigerant movement
- Swivel hook and 45° hose anchors
- Anodized high quality aluminum body
- Color coded handwheels
- All hoses are high pressure, 870 psi working pressure, 3600 psi burst pressure

| Designation | Hoses | Packaging | Part No. |
|--------------------|--------|---------------|----------|
| BM2-8-F-R22 | none | cardboard box | 4506490 |
| BM2-8-F-R134a | none | cardboard box | 9884439 |
| BM2-6-F-R22 | 3' set | cardboard box | 4506502 |
| BM2-6-F-R22-CCL-60 | 5' set | cardboard box | 4506520 |
| BM2-6-F-R22-CCL-72 | 6' set | cardboard box | 4506554 |
| BM2-3-F-R22 | 3' set | plastic case | 4506562 |





R410A Manifold – Two-Way

BM Series

- All the same features as the standard BM series manifolds except higher pressure gauges (M2). Low side gauge pressure to 500 psi and high side gauge pressure to 800 psi
- Comes standard with 1/4" SAE charging hoses

| Designation | Hoses | Packaging | Part No. |
|----------------------|--------|---------------|----------|
| BM2-8-F-R410A | none | cardboard box | 4506571 |
| BM2-6-F-R410A | 3' set | cardboard box | 4503261 |
| BM2-6-F-R410A-CCL-60 | 5' set | cardboard box | 4505710 |
| BM2-6-F-R410A-CCL-72 | 6' set | cardboard box | 4506589 |
| BM2-3-F-R410A | 3' set | plastic case | 4505239 |
| BM2-3-F-R410A-CCL-60 | 5' set | plastic case | 4505433 |
| BM2-3-F-R410A-CCL-72 | 6' set | plastic case | 4506597 |
| | | | |

R410A Manifold with refrigerant scales R410A/R134a/R22

| Designation | Hoses | Packaging | Part No. |
|----------------------------|--------|---------------|----------|
| BM2-8-F-R410A-FG | none | cardboard box | 4662535 |
| BM2-6-F-R410A-FG-CCL-60 | 5' set | cardboard box | 4662526 |
| BM2-6-F-R410A-FG-CA-CCL-60 | 5' set | cardboard box | |
| | | w/ball valve | 4665305 |





• Charge and evacuate an A/C or refrigeration system without having to connect and disconnect hoses, saving time and money

 All metal housing Class 1.6 bourdon tube gauges (M2), easy to read, zero point adjustable, pulse free and color-coded

• Two piece, O-ring seal piston style valve

• Extra large sight glass to view refrigerant movement

Swivel hook and 45° hose anchors

Anodized high quality aluminum body

Color coded handwheels

 All hoses are high pressure, 870 psi working pressure, 3600 psi burst pressure

> We make our own







| Designation | Hoses | Packaging | Part No. |
|-------------------------|--------|--------------|----------|
| BM4-3-F-R410A-FG | none | plastic case | 4675326 |
| BM4-3-F-R12 | 3' set | plastic case | 4506627 |
| BM4-3-F-R22 | 3' set | plastic case | 4506643 |
| BM4-3-F-R410A-FG-CCL-60 | 5' set | plastic case | 4675335 |

| Designation | Description | Part No. |
|-------------|--------------------------------------|----------|
| M2-GS | Rubber protection for gauges Ø 68 mm | 4677451 |

Manifolds





Two-Way Manifold Set

• Class 1.6 Glycerin filled bourdon tube gauges (GR), easy to read, zero point adjustable, color coded

Two-piece, O-ring seal piston style valve

• Extra large sight glass to view refrigerant movement

Swivel hook and 45° hose anchors

Anodized high quality aluminum body

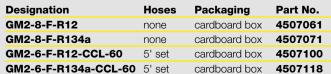
Color coded handwheels

All hoses are high pressure, 870 psi working pressure, 3600 psi burst pressure

We make our own









Automotive Manifold Set

• All the same features as the standard BM series manifold except the manifold comes with high and low pressure automotive valve couplers.

| Designation | Hoses | Packaging | Part No. |
|---------------------------|--------|--------------|----------|
| BM2-3-F-Auto-Set-R134a-RC | 6' set | plastic case | 4506601 |

• Replacement Auto Set Service Couplers



BM2-3-Auto-Set

Manifolds



• Easy to read 3 1/4" (80 mm) gauges (M5)

All metal housing Class 1.0 bourdon tube gauges

Retard protection

Color-coded for high and low side

Pulse/vibration fee

Zero point adjustable

Two-piece,

O-ring seal piston style valve

Extra large sight glass

 Swivel hook and 45° hose anchors

 Anodized high quality aluminum body

Color-coded handwheels

 All hoses are high pressure, 870 psi working pressure, 3600 psi burst pressure









Manifolds with Bellow Type Oil Filled Gauges

Bellow type gauges are the most accurate found in the industry today. Bellow type gauges are accurate within 1% all the way around the gauge dial, extremely over pressure resistant and pulse free.

There is no oil or glycerin fill nipple on these gauges to have weepage, seepage or leakage from.

DELUXE Two-Way Oil Filled Manifolds Bellow Type

- Oil-filled, bellow type, Class 1.0 accuracy gauges (R3). Gauges are accurate within 1% all the way around the gauge face
- Made from anodized aluminum
- No plastic
- No fill nipple on the top of the gauge to allow leakage
- Pulse/vibration free
- Extremely over-pressure resistant. Gauge will withstand 2 ½ times over-pressurization
- Zero point adjustable
- Easy to read 2 ¾" gauges (R3)
- Color-coded for high and low side
- Two-piece, O-ring seal piston style valve
- Extra large sight glass to view refrigerant movement
- Swivel hook and 45° hose anchors
- Anodized high quality aluminum body
- Color-coded handwheels
- All hoses are high pressure, 870 psi working pressure, 3600 psi burst pressure



M2-8-DELUXE

| Designation | Hoses | Packaging | Part No. |
|----------------------------------|--------------|---------------|----------|
| M2-8-DELUXE-F-R12 | none | cardboard box | 4505817 |
| M2-8-DELUXE-F-R22 | none | plastic case | 4667498 |
| M2-8-DELUXE-F-R410A-FG | none | plastic case | 4675491 |
| M2-3-DELUXE-F-R12-CCL-60 | 5' set | plastic case | 4505809 |
| M2-3-DELUXE-F-R22-CCL-60 | 5' set | plastic case | 4667510 |
| M2-3-DELUXE-F-R134a-CCL-60 | 5' set | plastic case | 4506759 |
| M2-3-DELUXE-F-R410A-FG-CCL-60 | 5' set | plastic case | 4662543 |
| M2-3-DELUXE-F-R410A-FG-CA-CCL-60 | 5' set | | |
| | w/ball valve | plastic case | 4663727 |

Manifolds

DELUXE Four-Way Oil Filled Manifolds Bellow Type • Oil-filled, bellow type, Class 1.0 accuracy gauges (R5). Gauges are accurate within 1% all the way around the gauge face Gauge housing is anodized aluminum. No plastic No fill nipple on the top of the gauge to allow leakage Pulse/vibration free Extremely over-pressure resistant. Gauge will withstand 2 ½ times over-pressurization Zero point adjustable Extra large, easy to read 3 1/4" gauges (R5) Color-coded high and low side gauges Two-piece, O-ring seal piston style valve Extra large sight glass to view refrigerant movement Swivel hook and 45° hose anchors Anodized high quality aluminum body Color-coded handwheels All hoses are high pressure, 870 psi working pressure, 3600 psi burst pressure Manifolds that come with R12 hose sets also come 36 in.Hg psi with one 3/8" SAE yellow vacuum line 60" long with a working pressure of 465 psi and burst pressure of 2250 psi We make our own

M4-8-DELUXE

| Designation | Hoses | Packaging | Part No. |
|-------------------------------|--------|--------------|----------|
| M4-3-DELUXE-F-R12-CCL-60 | 5' set | plastic case | 4505477 |
| M4-3-DELUXE-F-R410A-FG-CCL-60 | 5' set | plastic case | 4669997 |



SUPER DELUXE Two-WayManifold

- For the engineer looking for the highest quality manifold
- Oil-filled, bellow type, Class 1.0 accuracy gauges. Gauges are accurate within 1% all the way around the gauge face
- Pulse/vibration free
- Extremely over-pressure resistant. Gauge will withstand 2 ½ times over-pressurization
- Made from high quality eloxed aluminum
- Zero point adjustable
- Two-piece, O-ring seal piston style valve
- Extra large sight glass to view refrigerant movement
- Swivel hook and 45° hose anchors
- Color-coded handwheels
- All hoses are high pressure, 870 psi working pressure, 3600 psi burst pressure

| Designation | Hoses | Packaging | Part No. |
|----------------|--------|--------------|----------|
| MK-2-3-F-R12 | 5' set | plastic case | 4506848 |
| MK-2-3-F-R134a | 5' set | plastic case | 4506856 |





Manifolds

JUMBO-STAR 3/4" Bores and Connections Super High Flow Manifold

Standard Two-Way Manifold - High Flow

• 3/8" SAE bores all the way through the body to allow for increased flow over normal 1/4" SAE machined body. Standard 3/8" connections also

Saves time and money during charging, recovery and vacuum operations

Compact brass body with extra large sight glass

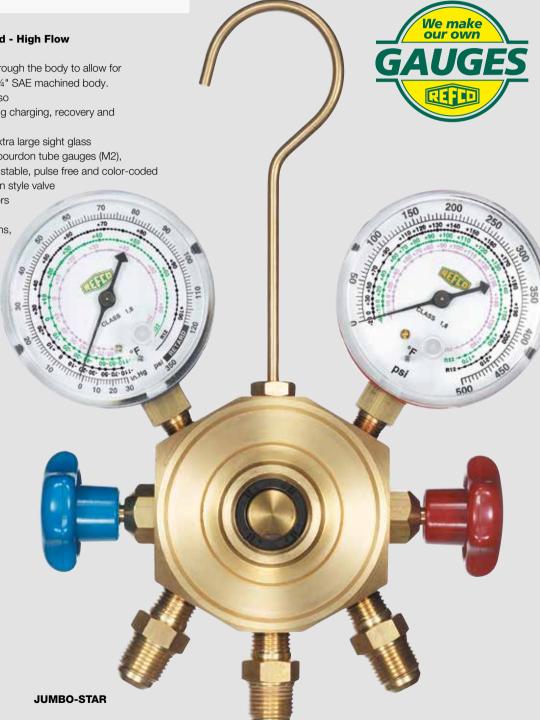
All metal housing Class 1.6 bourdon tube gauges (M2), easy to read, zero point adjustable, pulse free and color-coded

Two-piece, O-ring seal piston style valve

Swivel hook 45° hose anchors

Color-coded handwheels

All hoses 3/8" SAE connections, 465 psi working pressure, 2250 psi burst pressure





Designation Hoses Packaging Part No. JUMBO-STAR-2-3-F-R12 3/8" 3' set plastic case 4668109 JUMBO-STAR-2-3-F-R134a 3/8" 3' set plastic case 4668117 JUMBO-STAR 2-3-F-R410A-FG %" 3' set plastic case



REF-CLASS-GAUGE

The digital pressure test gauge takes the concept of an analog gauge, and brings it to a new level, as only digital calibrators can do. The REF-CLASS- GAUGE combines the accuracy of digital with the simplicity of an analog gauge. It achieves high level performance, ease-of-use and features unmatched in the pressure measurement world.

The versatility of this high-end product is to your benefit. The REF-CLASS-GAUGE allows you to test the pressure of gauges on your own and helps to save costs. For instance the digital manifold "DIGIMON" can easily be calibrated in-house.

The REF-CLASS-GAUGE offers a comfortable and compact solution to perform pressure calibration on-site.

The setup is fast and straightforward, through a menu-driven display with minimal test and intuitive functions.

A carrying case protects this precision device perfectly.

- Simple generation of test pressure on-site, in lab or in the shop floor
- For testing, setting and calibrating of any pressure gauge
- Pneumatic pressure generation of -950 mbar 500 psi
- Ergonomic handling
- Precise alignment through fine-control valve
- Accuracy: 0.05% FS (incl. calibration certificate) for pressure- and temperature measurement
- Rugged stainless steel case meets NEMA 4/IP65
- Data logger function
- Data interpretation software available on demand

Part No. 4682293





The REF-CLASS-GAUGE is used to verify the correct calibration of your manifold gauges or any gauges pressure reading.

Make sure you are meeting the exact standards of the equipment your servicing!

Manifolds

Manifold Spare Parts

Spare Handwheels for Two-Way Manifold Series:

| Designation | Description | Part No. |
|--------------|---------------------|----------|
| M2-6-09-B+R | Blue, Red handwheel | 4687080 |
| M2-7-SET-B+R | Blue, Red handwheel | 4687079 |



Spare Handwheels for Four-Way Manifold Series:

| Designation | Description | Part No. |
|-------------|------------------------------------|----------|
| M4-6-09-B | Blue handwheel | 4490976 |
| M4-6-09-N | Black handwheel | 4490984 |
| M4-6-09-Y | Yellow handwheel | 4491000 |
| M4-7-SET- | | |
| B+N+R+Y | Blue, Black, Red, Yellow handwheel | 4687094 |



Hook for all manifolds apart from the DIGIMON:

| Designation | Description | Part No. |
|-------------|-------------------|----------|
| M4-6-10 | Hook for manifold | 9882584 |

Complete Manifold Valve Replacement Kit:

| Designation | Description | Part No. |
|--------------|---------------------------------|----------|
| M2-10-95-R/2 | Package of 2 replacement valves | 4687104 |
| M2-10-95-R/4 | Package of 4 replacement valves | 4687105 |



M4-6-10

M2-10-95-R





Replacement Valve Seat Assembly:

| Designation | Description | Part No. |
|---------------|-------------------------------------|----------|
| M4-6-04-R/4 | Package of 4 valve seat assemblies | 4687093 |
| M4-6-04-R/10 | Package of 10 valve seat assemblies | 4662624 |
| M4-6-04-JUMBO | Single valve seat assembly | |
| | for JUMBO-STAR | 4666726 |



Sight Glass Replacement Parts:

| Designation | Description | Part No. |
|-------------|-----------------------------------|----------|
| 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 |





M4-6-11T



Hose holder for REFCO manifolds:

| Designation | Description | Part No. |
|-------------|----------------------------------|----------|
| A-31452-Y | Y-plug hose holder for manifolds | 4665118 |



Plastic Carrying Multi-Case:

| Designation | Description | Part No. |
|-------------|------------------------------------|----------|
| M4-6-15 | Carrying case with storage | |
| | compartment for 2- and 4-way REFCO | |
| | manifolds made of sturdy plastic | 4666106 |

M2-GS





Rubber protection for gauges:

| Designation | Description | Part No. |
|-------------|--------------------------------------|----------|
| M2-GS | Rubber protection for gauges Ø 68 mm | ١, |
| | set of 1 red and 1 blue | 4677451 |

Charging Hoses

Charging and Testing Hoses



Features of REFCO Charging hoses include:

- Standard 870 psi working pressure, 3600 psi burst pressure making the REFCO charging hoses good for all refrigerants including R410A
- Eight sided crimp ensures maximum hose life
- Neoprene seals
- Knurled brass nut for easy finger tightening
- Multiple lengths available
- Color coded for convenience
- Available in packs of 3 (one red, one yellow and one blue hose) or individually



Sets of 3

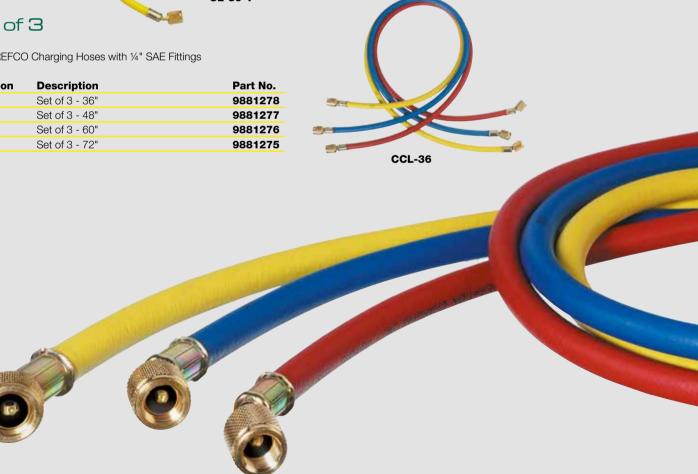
Premium REFCO Charging Hoses with 1/4" SAE Fittings

| Designation | Description | Part No. |
|-------------|----------------|----------|
| CCL-36 | Set of 3 - 36" | 9881278 |
| CCL-48 | Set of 3 - 48" | 9881277 |
| CCL-60 | Set of 3 - 60" | 9881276 |
| CCL-72 | Set of 3 - 72" | 9881275 |
| | | |

Individual Charging Hoses

Premium REFCO Charging Hoses with 1/4" SAE Fittings

| 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 |





Environmentally Friendly REFCO Charging Hoses with Special Barrier Protection

Features include:

- All of the features of the standard charging hose but are made from a special material which prevents virtually any permeation of refrigerant, yet remain flexible and easy to work with
- Meets SAE J2196 for permeation allowance

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 |

Individual Charging Hoses

| Designation | Description | Part No. |
|---------------|-----------------|----------|
| CL-36-Y-J2196 | 36" Yellow hose | 9884719 |
| CL-36-R-J2196 | 36" Red hose | 9884720 |
| CL-36-B-J2196 | 36" Blue hose | 9884721 |
| CL-60-Y-J2196 | 60" Yellow hose | 9884722 |
| CL-60-R-J2196 | 60" Red hose | 9884723 |
| CL-60-B-J2196 | 60" Blue hose | 9884724 |
| CL-72-Y-J2196 | 72" Yellow hose | 9884725 |
| CL-72-R-J2196 | 72" Red hose | 9884726 |
| CL-72-B-J2196 | 72" Blue hose | 9884727 |







Adapter to take a hose from 1/4" SAE to 5/16" SAE (1/2"-20UNF)

| Designation | Description | Part No. |
|-------------|----------------------------------|----------|
| QC-S410A/2 | Adapter with core depressor | |
| | 1/4" SAE male x 5/16" SAE female | |
| | Packaged 2 per | 4687095 |







P-509-T

P-513

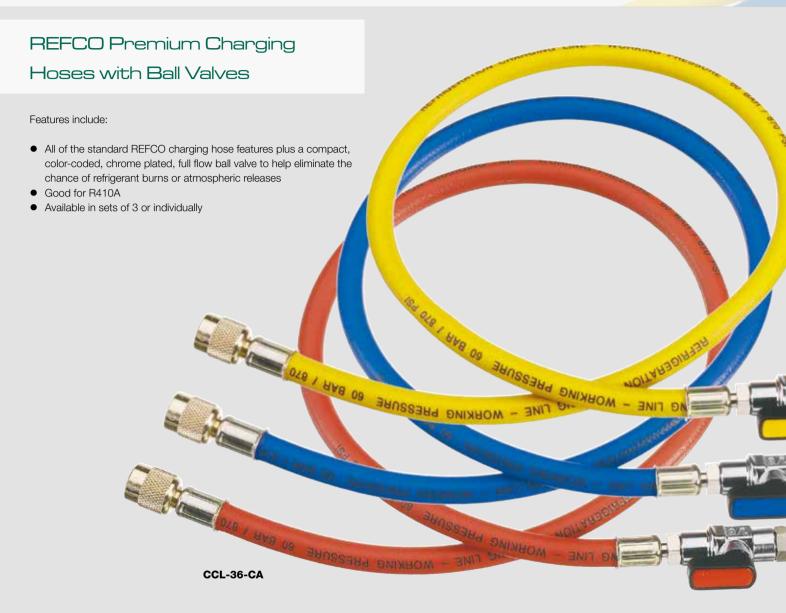
Spare Parts for REFCO 1/4" SAE Charging Hoses

| Designation | Description | Part No. |
|-------------|---|----------|
| P-509/10 | Ten neoprene gaskets for 1/4" SAE hoses | 9880872 |
| P-509-T/10 | Ten Teflon gaskets for 1/4" SAE hoses | 9880871 |
| P-513/10 | Ten core depressors for Schrader valves | 9880869 |
| | | |



CCL-36

Charging Hoses





Sets of 3

Premium REFCO charging hose with ball valve and flexible length of hose between ball valve and fitting. 1/4" SAE on both ends.

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

Premium REFCO charging hose with ball valve

| 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 |

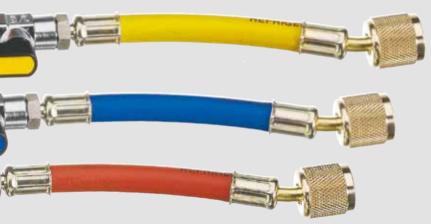




Individual Charging Hoses

Premium REFCO charging hoses with ball valve

| 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 |









Ball Valve with $\mbox{\em 14}\mbox{\em "}$ SAE male and female fittings, core depressor and knurled nut

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

Charging Hoses

REFCO Magic Seal Charging Hoses

Magic Seal charging hose features:

- Built in valve automatically closes when disconnecting the charging hose from the system, preventing refrigerant loss and burning of the skin
- One side straight connection, other side 45° bended
- Standard 870 psi working pressure and 3600 psi burst pressure make the hose good for all refrigerants including R410A
- Eight sided crimp ensures maximum life
- Knurled brass nut for easy finger tightening
- Neoprene seals
- Multiple lengths available
- Color-coded for convenience

| 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 |

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



Sets of 3

Magic Seal charging hose

| Designation | Description | Part No. |
|-------------|--|----------|
| CPV-CCL-60 | Set of 3 - 60" w/built in shut off valve | 4495421 |





REFCO %" SAE Charging Hoses

Features of the $\frac{3}{8}$ " SAE charging hose are as follows:

- Standard 465 psi working pressure, 2250 psi burst pressure
- Eight sided crimp to ensure maximum hose life
- Knurled brass nut for easy finger tightening
- Multiple hose lengths available
- Color-coded for convenience

| Designation | Description | Part No. |
|-------------|-------------------------|----------|
| HCL6-60-Y | 60" 3%" SAE Yellow hose | 9881313 |







A-40513

Spare Parts for REFCO %" SAE Charging Hoses

| Designation | Description | Part No. |
|-------------|---------------------------|----------|
| P-510/10 | 10 Neoprene O-rings | |
| | for %" SAE charging hoses | |
| | Packaged 10 per | 9880870 |
| A-40513/10 | Core depressor | |
| | for %" SAE charging hoses | |
| | Packaged 10 per | 9884813 |
| | | |

Leak Detection

REF-LOCATOR

Electronic Leak Detector

The requirements for leak detectors are constantly increasing and in order to keep up with the newest developments and technologies, we have developed the REF-LOCATOR. This high-end unit fulfills all the specifications and requirements which are expected from a modern leak detector today. The basis of solid electrolyte sensor technology sets new standards in the area of leak detection. The sensor has a higher than average life cycle of approximately 10 years, which is a large advantage over conventional leak detectors. With the large

LCD display, one is always informed about the ongoing activities.

Through the adjustment of the 3 sensitivity levels, it is easy to localize large leaks. In addition, the inspection light is ideal for having a good overview, even in the dark. The REF-LOCATOR is delivered in a practical, rugged case.



Technical Data:

| Sensitivity: | 0.05 oz/yr (1.4 g/year) All HFC's incl. R410A, R404A, R407C & |
|---------------------|--|
| | R134a |
| | 0.025 oz/yr (0.7 g/year) HCFC R22 |
| | 0.03 oz/yr (0.9 g/year) HFO R-1234y |
| Standards | SAE-J2791 (R-134a), |
| | SAE-J2913 (R-1234yf) |
| Certifications: | Complies to standard SAE-J2791, |
| | SAE-J2913 |
| | EN14624:2012, CE, ROHS, |
| | ASHRAE Standard 173 |
| Inspection light: | 3 white LED's and 3 UV - |
| | auto shut off in 5 minutes |
| Sensor life: | >10 years/4000 hours |
| Sensor Technology: | Solid electrolyte semi-conductor |
| Warm-up time: | approx. 30 seconds |
| Response time: | instantaneous |
| Display: | BTN-LCD with 10 segment color |
| | "pie graph" showing leak size |
| Sensitivity levels: | MAX- 0.15oz/yr (4 g/yr) |
| | MED- 0.25 oz/yr (7 g/yr) |
| | MIN- 0.5 oz/yr (14 g/yr) |
| Mute function: | Silent mode – Display shows leak |
| | indication |
| Power supply: | 4 AA Alkaline or 4 AA NiMH |
| | Batteries |
| Battery life: | 2.5 hours |
| IP-classification: | 54 |
| Probe length: | 17" |
| Dimensions: | 10 x 3 x 2.5 in |
| Weight: | 1.3 lb |
| | |



Spare Parts for REF-LOCATOR

| Designation | Description | Part No. |
|---------------------|----------------------------------|----------|
| LOCATOR-FILTER/5 | spare filter (set of 5 pieces) | 4686821 |
| REF-LOCATER-CASE | plastic case | 4686707 |
| REF-LOCATOR-TV-01 | test vial | 4686705 |
| LOCATOR-LED-UV/6 | Spare LED UV (set of 6 pieces) | 4687034 |
| LOCATOR-LED-WHITE/6 | Spare LED white (set of 6 pieces | 4686828 |





TRACE-LOCATOR

Electronic Leak Detector

The leak detector for professional leak detection with trace gas 95/5 (95% nitrogen, 5% hydrogen), featuring the latest technology. The 95/5 trace gas is environmentally friendly, non-toxic, nonflammable and non-corrosive. The gas escapes at the leaky spot which then can easily be localized with the TRACE-LOCATOR. In addition, after evacuating the unit, the nitrogen in the trace gas binds with the possible remaining moisture. Additionally, during and after the leak detection, no environmentally harmful refrigerants will leak out. Due to the low density of hydrogen which is lighter than air, even minor leakages can be detected quickly. By means of a colared pie chart, the large LCD display, always shows the latest data. The TRACE-LOCATOR is delivered in a practical, rugged case.

Technical Data:

| Sensitivity: | less than 5ppm (N2/H2 tracer gas) |
|---------------------|-----------------------------------|
| Certifications: | Fulfills the limits of standard |
| | EN35422 |
| | The tracer gas conforms to |
| | article 6, paragraph 3 of the EU |
| | directive 2006/40/EG |
| | Pending SAE-J2970 certification |
| Inspection light: | 3 white LED's and 3 UV - |
| | auto shut off in 5 minutes. |
| Sensor life: | 1000 hours |
| Sensor Technology: | Solid electrolyte semi-conductor |
| Warm-up time: | approx. 30 seconds |
| Response time: | instantaneous |
| Display: | BTN-LCD with 10 segment color |
| | "pie graph" showing leak size |
| | Backlight included |
| Sensitivity levels: | 3 levels |
| Mute function: | Silent mode - display shows leak |
| | indication visually |
| Power supply: | 4 AA Alkaline or |
| | 4 AA NiMH Batteries |
| Battery life: | 4.5 hours |
| IP-classification: | 54 |
| Probe length: | 17" |
| Dimensions: | 10 x 3 x 2.5 in |
| Weight: | 1.3 lb |
| | |

Part No. 4686715

Spare Parts for TRACE-LOCATOR

| Designation | Description | Part No. |
|---------------------|-----------------------------------|----------|
| LOCATOR-FILTER/5 | spare filter (set of 5 pieces) | 4686821 |
| TRACE-LOCATER-CASE | plastic case | 4686708 |
| TRACE-LOCATOR-TV-01 | test vial | 4686703 |
| LOCATOR-LED-UV/6 | Spare LED UV (set of 6 pieces) | 4687034 |
| LOCATOR-LED-WHITE/6 | Spare LED white (set of 6 pieces) | 4686828 |

Leak Detection

STARTEK

Electronic Leak Detector for all

Halogenated Refrigerants



- Battery life indicator
- Prevents incorrect readings by providing visual and audible warning followed by an automating shut-off when battery reaches a critical level
- State of the art sensor technology for higher reliability and longer life time
- Includes a practical belt clip holster that also protects the unit in your tool box
- Specially designed 12" flexible probe for easy reach
- Additional replacement sensor included inside the battery compartment
- Packed up in a sturdy plastic case



Technical Data:

| . commour Duta. | |
|------------------------|-----------------------|
| Dimensions: | 6 x 1.4 x 2.1 inch |
| Weight: | 6.7 oz |
| Batteries: | 2 x AA batteries |
| Battery lifetime: | 40 hours |
| Sensitivity: | less than 0.1 oz/year |
| Sensor lifetime: | approx. 30 hours |
| Operating temperature: | 32 °F to 125 °F |
| Warm up time: | less than 2 seconds |
| Response time: | instantaneous |
| Reset time: | instantaneous |
| Probe length: | 12 inches |
| Warranty: | 2 years |
| | |

| Designation | Description | Part No. |
|--------------|--------------------------------|----------|
| ES-02 | Replacement sensor (Pack of 2) | 4507577 |
| STARTEK-CASE | Replacement carrying case | 4664333 |



STARTEK-C

STARTEK-C

Electronic Leak Detector for Combustible Gases

- This Combustible Gas Leak Detector with its new state of the art design is the most technologically advanced of its kind
- The STARTEK-C's low power requirements, small size and high sensitivity combine to create a tool which is easy to handle and ultra effective at locating even the most difficult-to-find leaks
- The STARTEK-C's long life sensor will detect concentrations of combustible gases as low as 5 ppm
- It is sensitive to all combustible gases
- The STARTEK-C also features a low sensivity mode, enabling quick and easy location of large combustible gas leaks
- Packed up in a sturdy plastic case





Technical Data:

| roommour Dutar | |
|------------------------|----------------------------------|
| Dimensions: | 6 x 1.4 x 2.1 inch |
| Weight: | 6.7 oz |
| Batteries: | 2 x AA batteries |
| Battery lifetime: | 11 hours |
| Sensitivity: | less than 50 ppm (Propane, |
| | Isobutane, Methane, Natural Gas) |
| Sensor lifetime: | less than 1 year normal use |
| Operating temperature: | 32 °F to 125 °F |
| Warm up time: | 45 seconds (conditioned sensor) |
| Calibration: | automatic |
| Response time: | 5 seconds |
| Reset time: | 5 seconds or more |
| | depending on gas concentration |
| Probe length: | 12 inches |
| Warranty: | 2 years |
| | |

| Designation | Description | Part No. |
|----------------|---------------------------|----------|
| ES-C | Replacement sensor | 4660672 |
| STARTEK-C-CASE | Replacement carrying case | 4665593 |

Charging Scale

Charging Scale

OCTA-WIRELESS

This reliable, electronic charging scale transmits the measurement data to the wireless display, allowing for mobile operation of the scale within a radius of 33 ft. The light, solid, aluminum housing along with the slim design, make the OCTA-WIRELESS particularly suitable for large refrigerant cylinders. Through the convenient, wireless control panel, the OCTA-WIRELESS can easily be programmed or recalibrated. REF-METER-OCTA-PLUS, the automatic charging system, is an ideal addition to the OCTA-WIRELESS. The wireless electronic charging scale is delivered in a durable carrying pouch.

Technical Data:

| Capacity: | 220 lbs |
|-------------------|-------------------------------|
| Platform: | Diameter 12.6 in |
| | Height 1.75 in |
| Accuracy: | +/-0.5 % |
| Resolution: | 0.1 oz, 0.005 lbs |
| Power Supply: | 2x 4 AAA- batteries |
| Battery lifetime: | 60 h control panel + platform |
| Weight: | 1.2 lbs with batteries |
| Signal range: | 33 ft |

Part No. 4686663

OCTA-WIRELESS-KIT

Combination kit including OCTA-WIRELESS and REF-METER-OCTA-PLUS.

Part No. 4686742









REF-METER-OCTA-PLUS

Automatic charging module for the OCTA-WIRELESS and REF-METER-OCTA. It is suitable for all refrigerants. Through a visual and an acoustic signal the exact programmed filling weight is achieved.

Technical Data:

| Charging Port: | 1/4" SAE |
|--------------------------------|---------------------------------|
| Max. Valve operating pressure: | 500 psi, 34 bar |
| Power supply: | 4 x 1,5 V AA Alkaline Batteries |
| Battery lifetime: | > 200 hours |
| Materials: | Valve Body Brass, |
| | Seal Neoprene-W |
| Operating temperature: | 0 °C to 50 °C / 32 °F to 122 °F |
| Weight: | 1.2 lbs with batteries |
| Dimensions: | 8.6 x 6.6 x 1.9 inch |



REF-METER-OCTA

REF-METER-OCTA is a new electronic refrigerant scale built in high quality, sturdy and modern design.

- New design
- Sturdy aluminium platform
- Unique cable auto reel
- Easy to read LCD display
- Compact and lightweight (5.5 lbs)
- Large refrigerant cylinder platform
- Extremely high accuracy
- Programmable
- Field calibratable
- Supplied in a carrying pouch



Technical Data:

| Capacity: | 220 lbs |
|-------------------|----------------------|
| Platform: | diameter 12.6 inches |
| Accuracy: | ±0.5% |
| Resolution: | 0.005 lbs, 0.1 oz |
| Power supply: | Four AAA batteries |
| Battery lifetime: | 30 hours |





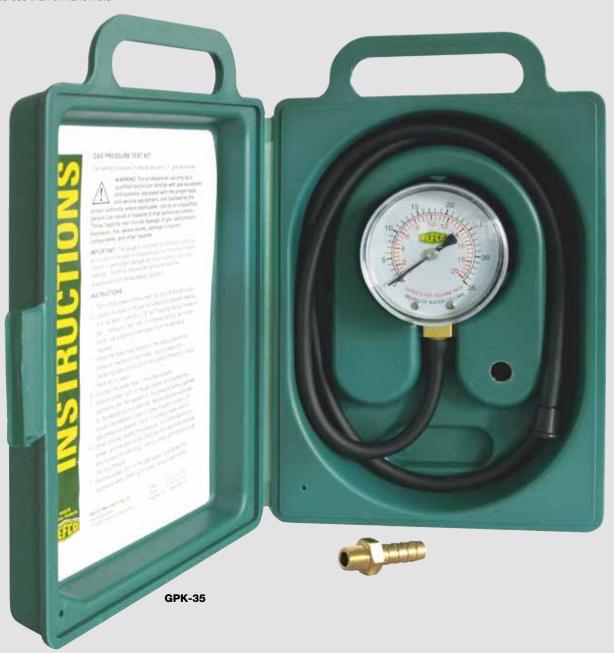
Gas Pressure Test Kit

GAS PRESSURE TEST KIT

Precision test instrument used to accurately set manifold pressure for Natural and L.P. Gas

- Includes sensitive diaphragm gauge that is calibrated in inches of water column and ounces per square inch for extreme accuracy
- Scale in 0-35" W.C.
- Kit includes brass barb fitting on gauge, rubber tube and nipple for easy connection to system manifold
- High impact carrying case
- Easier to use than a manometer

| Designation | Description | Part No. |
|---------------------------|----------------------------------|----------|
| GPK-35 | Gas Pressure Test Kit | 4683477 |
| | | |
| Spare Parts: | | |
| GPK-35-01 | Gauge with barb fitting for GPK | 4680096 |
| GPK-35-02 | Hose with nipple fitting for GPK | 4680087 |
| GPK-35-03 | Rubber nipple for GPK | 4680109 |
| GPK-35-04 | Barb fitting for GPK | 4680079 |
| GPK-35-SIGHT-GLASS | Gauge cover for GPK | 4680117 |



Thermometers



Digital Thermometers

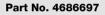
Infrared Non-Contact Thermometer

The LP-88 is a rugged and practical infrared thermometer with a pistol grip, which allows for contact free temperature measurement. Various temperatures can efficiently be measured within a room. The built-in laser pointer simplifies the measurement by marking the measurement area with two red laser points.

This infrared thermometer is delivered in a durable, protective case.

Technical Data:

| Temperature range: | -76 °F-1000 °F |
|------------------------|--------------------------------|
| Operating temperature: | 32 °F-122 °F |
| Resolution: | 0.1 °F |
| Accuracy: | ± 2% of display or 4 °F |
| | Depending on which is greater |
| Battery life: | 18 h |
| Distance spot. | 12.1 |
| IP classification: | 54 |
| Automatic shut-off: | after 15 seconds of inactivity |
| Emissivity | 0.95- adjustable |
| | 0,1 to 1 in .01-steps |
| Weight: | 0.4 lbs incl. 2x AAA batteries |





DT-150

LP-88

Digital Pocket Test Thermometer

This thermometer comes with an easy to read LCD digital readout, is battery operated, switchable from Fahrenheit to Celsius and comes with a protective sheath with clip.

- Range -40 °F to 300 °F
- Accuracy ±2°F
- Resolution 0.1 °F

| Designation | Description | Part No. |
|-------------|-------------------------|----------|
| DT-150 | Pocket Test Thermometer | 9884365 |

K-type thermocouple clamp

- Temperature range -40 °F to +257 °F
- Jaw range ¼" 1 ½"
- Resolution 1 °F



Video Scope

REF-SCOPE

Video inspection camera

The Inspection Camera REF-SCOPE[®] Insightvision is designed for the visual analysis of unreachable or hard to reach areas. The Inspection camera is crucial for a clear, internal inspection of engines, A/C systems, interior structures of walls and other industrial and similar applications. Optical imaging and illumination is provided by a full color image sensor and 6 LED lamps which are controlled by an on/off rotary switch.

Part No. 4679705

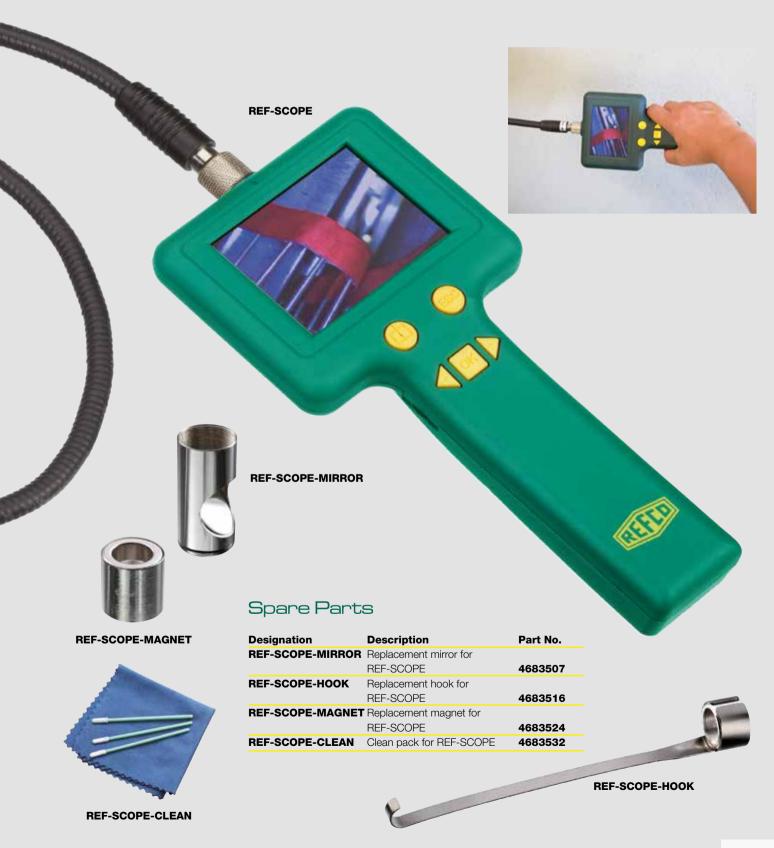




Technical Data:

| 3.5" (8.9 cm) TFT digital panel | |
|-------------------------------------|--|
| Resolution 320 x 240 pixel | |
| LED | |
| Normal- and mirroring display | |
| 0.39" (10 mm) | |
| 42" (107 cm) | |
| water resistant | |
| RCA phono jack | |
| 0.55 lb / 250 g (without batteries) | |
| 4 Alkaline AA batteries | |
| (3 hours full functional operation) | |
| cleaning material, batteries, | |
| AV cable, mirror, hook, | |
| extra strong magnet | |
| | |





Tools

Tube Cutters

The new, durable telescopic tube cutter accurately cuts copper tubing

- Four roller tracking system keeps tube from threading
- Smooth turning of adjustment knob
- Full-stop feed system prevents wheels and rollers from coming into contact
- Heavy duty
- High quality
- Includes spare cutting wheel

| Designation | Description | Part No. |
|-------------|-------------------------------------|----------|
| RS-16 | Tube cutter 1/8" to 5/8" | 4682722 |
| RS-25 | Tube cutter 1/8" to 1" | 4682730 |
| RS-35 | Tube cutter 1/8" to 1 3/8" | 4682748 |
| RS-42 | Tube cutter 1/8" to 1 5/8" | 4682756 |
| RS-67 | Tube cutter 1/4" to 2 5/8" | 4686904 |
| RS-001/3 | Spare cutting wheel for tube cutter | |
| | Packaged 3 per | 4687097 |





RFA-209-01/3 Spare blades for RFA-209-STYLO-HD and RS tube cutter series, made of tough long life cobalt (set of 3 pieces)

4687065



| Designation | Description | Part No. |
|-------------|---|----------|
| 14338 | REFCO roller for tubing construction. | |
| | Useful for brazed or sweat type connections | 9881622 |







Pinch Off Tools

| Designation | Description | Part No. |
|-------------|---|----------|
| 14285 | Up to 3/8" diameter suction tubes | 9881530 |
| RFA-105-FF | Pinch off tools for 1/4", 3/8" and 1/2" | 9881528 |
| 14200 | Pinch off pliers up to 3/8" O.D. | 9881527 |
| 14215 | Capillary tube cutter, | |
| | without swaging the tube | 9881087 |



RFA-105-FF



Recovery-Service

Piercing Pliers

| Designation | Description | Part No. |
|-------------|--|----------|
| 14210 | Piercing pliers with changeable piercing | |
| | needle and access fitting | 9881526 |
| 14210-01/10 | Package of 10 spare needles | 4665550 |

Description

Cleaning brush 4 in 1



Tubing Tools

Designation

BR-4IN1

| Designation | Description | Part No. |
|------------------|---|----------|
| RFA-209 | Inner-Outer reamer | 9881649 |
| RFA-209-STYLO | Tube deburring tool, rotate blade | 9883750 |
| RFA-209-STYLO-HD | Heavy duty deburring tool with rotating blade Removes rough or irregular edges of steel, aluminium, copper and plastic Replaceable blades made of tough | |
| | long life cobalt | 4687051 |
| RFA-209-01/3 | Spare blades for RFA-209-STYLO-HD and RS tube cutter series, made of | |
| | tough long life cobalt (set of 3 pieces) | 4687065 |



Part No.

4677621

RFA-209

BR-4IN1



RFA-209-01/3

Tools



45 Degree Flaring Tools

| Designation | Description | Part No. |
|-------------|---|----------|
| 525-F | Flaring and burnishing in one tool. | |
| | Sizes from 3/16" to 5%" O.D. | 9881571 |
| RF-888-Z | 45° Eccentric flaring tool in inch-sizes. | |
| | Made of forged high quality steel for | |
| | tubes with an outside-diameter of: 3/16", | |
| | 1/4", 5/16", 3/8", 1/2", 5/8", 3/4". | |
| | Supplied in a sturdy plastic case | 4506171 |
| RF-275-FS | Flaring and swaging tool for tubes with | |
| | an outside-diameter of: 3/16", 1/4", | |
| | 5/16", 3/8", 1/2", 5/8". | |
| | Supplied in a plastic case | 9881575 |
| RF-175-FS | 45° Flaring and swaging tool in inch- | |
| | sizes. Made of forged high quality steel | |
| | for tubes with an outside-diameter of: | |
| | 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", | |
| | 1/2", 5/8", 3/4". | |

Supplied in a sturdy plastic case



RF-888-Z



RF-275-FS



4506198

RF-175-FS



Tube Bending Springs

| Designation | Description (Outside diameter of tube) | Part No. |
|-------------|---|----------|
| BS-4 | 1/4" | 9881648 |
| BS-5 | ⁵ /16" | 9881642 |
| BS-6 | 3/8" | 9881641 |
| BS-7 | ⁷ / ₁₆ " | 9881640 |
| BS-8 | 1/2" | 9881639 |
| BS-10 | 5/8" | 9881638 |
| BS-12 | 3/4" | 9881637 |



Tube Benders

| Designation | Description | Part No. |
|---------------|---------------------------------|----------|
| RFA-364-FH-08 | 1/2" | 9881667 |
| RFA-364-FH-10 | 5/8" | 9881666 |
| RFA-364-FH-12 | 3/4" | 9881665 |
| RFA-368-FH | Triple-header tube bender. | |
| | Bends all tubes with an | |
| | outside diameter of 1/4", 5/16" | |
| | and %" to a 90-degree bend | 9881657 |





| Designation | Description | Part No. |
|-----------------|---------------------------------------|----------|
| TELL-7 | Cross-Bow type tube bender | |
| | set for easy, ergonomic | |
| | handling. For following outside | |
| | diameters: 1/4", 5/16", 3/8", 1/2", | |
| | 5%", 34", 7%". Supplied with | |
| | tube cutter in a sturdy plastic case. | 4666076 |
| TELL-7-BA-1/4" | Bending adapter 1/4" | 4669432 |
| TELL-7-BA-5/16" | Bending adapter 5/16" | 4669440 |
| TELL-7-BA-3/8" | Bending adapter 3/8" | 4669458 |
| TELL-7-BA-1/2" | Bending adapter ½" | 4669466 |
| TELL-7-BA-5/8" | Bending adapter 5/8" | 4669475 |
| TELL-7-BA-3/4" | Bending adapter ¾" | 4669483 |
| TELL-7-BA-7/8" | Bending adapter 1/8" | 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



Expander Tool Set

HY-EX-6

New Hydraulic Expander tool kit with 6 expander heads to cover all size tubes of 3/8", ½", 5/8", 3/4", 7/8",1 1/8" diameter. This set includes a sturdy deburring tool and is delivered in a handy plastic case. Using hydraulic power this lightweight expander makes a perfect expansion of copper and aluminium tubing with only a few pumps.

This tool offers you the following features:

- Easy single hand operation:
 - Hydraulic mechanism and release button make one-handed swages possible. Simply select the correct laser-engraved expander head, thread it on the tool and make a quality swage.
- Small space capable:
 - A compact, pistol shape allows it to fit into the smallest and hard to reach spots.
- 120° angle:
- Requires less power to pump, provides a natural wrist angle.
- Interchangeable heads:
 - Fits all common HVAC/R size copper tubing.
 - Compatible with REFCO expander systems:
 - Perfect accessory to upgrade existing manual expander kits.
- Includes deburring tool RFA-209-STYLO-HD:
 Allows easy installation for expander heads.

Specifications:

| Dimensions: | Length: 10", width: 1.75", height: 5" |
|-----------------|--|
| Weight: | 2.6 lbs |
| Tube materials: | Soft tubing only: copper, aluminium, brass |

Part No. 4687047

Spare heads

| Spare heads | Spare heads | |
|-------------|-------------------|----------|
| Designation | | Part No. |
| HY-EX-1/4" | 1/4" | 4687344 |
| HY-EX-5/16" | ⁵ /16" | 4687346 |
| HY-EX-%" | 3/8" | 4687367 |
| HY-EX-1/2" | 1/2" | 4687366 |
| HY-EX-%" | 5/8" | 4687365 |
| HY-EX-¾" | 3/4" | 4687368 |
| HY-EX-7/8" | ⁷ /8" | 4687369 |
| HY-EX-1" | 1" | 4687345 |
| HY-EX-11/8" | 11/8" | 4687370 |
| HY-EX-11/4" | 11/4" | 4687478 |
| HY-EX-1%" | 13/8" | 4687347 |
| HY-EX-11/2" | 1½" | 4687477 |
| HY-EX-1%" | 15⁄8" | 4687348 |
| | | |





Hydraulic oil for HY-EX, 50 ml





HY-EX-6



Expander Tool Set

| Designation | Description | Part No. |
|-------------|-------------------------------------|----------|
| 14297-RF | Expander tool set. Complete with | |
| | expander plier and 6 heads in steel | |
| | box. Tube sizes %", 1/2", 5%", | |
| | 34", 78 " and 1 18 " diameter | 4677817 |



| Spare heads | Spare heads | |
|----------------|-------------|----------|
| Designation | | Part No. |
| 14297-RF-3/8" | 3/8" | 4669709 |
| 14297-RF-1/2" | 1/2" | 4669717 |
| 14297-RF-5%" | 5/8" | 4669726 |
| 14297-RF-¾" | 3/4" | 4669734 |
| 14297-RF-7/8" | 7/8" | 4669742 |
| 14297-RF-1" | 1" | 4669750 |
| 14297-RF-11/8" | 11/8" | 4669768 |
| 14297-RF-1%" | 1%" | 4669776 |
| 14297-RF-1%" | 15/8" | 4669785 |
| | | |
| | | |

Tools

Punch Type Swaging Tools

| Designation | Description | Part No. |
|-------------|------------------------------------|----------|
| | (Tube inside diameter) | |
| T21002 | 1/8" | 9881620 |
| T21003 | 3/ ₁₆ " | 9881619 |
| T21004 | 1/4" | 9881618 |
| T21005 | ⁵ / ₁₆ " | 9881617 |
| T21006 | 3/8" | 9881616 |
| T21007 | ⁷ / ₁₆ " | 9881615 |
| T21008 | 1/2" | 9881614 |
| T21010 | 5⁄8 " | 9881613 |
| T21012 | 3/4" | 9881612 |
| T21014 | ⁷ /8" | 9881611 |
| T21018 | 1 1⁄8" | 9881610 |
| T21000 | Complete set of seven tools from | |
| | 1/8" to 1/2" | 9881609 |
| T21100 | Complete Bar covers all sizes from | |
| | 1/8" to 1/2" in one tool | 9881608 |



| Designation | Description | Part No. |
|-------------|----------------------------------|----------|
| TW-8 | The complete torque wrenches kit | |
| | in a handy case | |
| | Torque: 10-80 ft/lbs | |
| | Size of wrenches: | |
| | 17 19 22 24 26 27 29 mm | 4666034 |









RFA-127-C







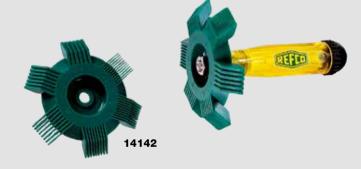








| Designation | Description | Part No. |
|----------------|--|----------|
| RFA-124-C | Ratchet wrench. Hex openings ½" and 5/16" on one end and square 3/16" and ¼" on the other end | 9881467 |
| RFA-127-C | Ratchet wrench. ¼" by ¾6" at one end and ¾" by 5/16" at the other end | 9881466 |
| RFA-127-OFFSET | Offset wrench | 4506201 |
| KKS-38 | Ratchet wrench with extendable reversible L-shape handle, ideal if space is tight, %" square. Blister packaging. | 4667413 |



| Designation | Description | Part No. |
|-------------|------------------------------------|----------|
| 14142 | Fin comb, 6 in 1 with sizes marked | |
| | on the comb. Comes with | |
| | additional spare head in bag | 9881562 |
| 14144 | Fin comb for cleaning and | |
| | straightening fins quickly and | |
| | easily. Adjustable tension | 9881561 |
| 14225 | Circular pocket mirror, telescopic | |
| | 1 ½" diameter | 9881560 |
| 21702 | REFCO charging oil pump. Pumps | |
| | one quart of oil in 20 strokes | 9881559 |
| 21751 | Change oil pump | 9881557 |



Tools

Access Valve Tools for 1/4" SAE

| Designation | Description | Part No. |
|-------------|---|----------|
| 32515 | Charging and evacuation valve key | |
| | for fluid filling or withdrawal through | |
| | Schrader valves. Increases speed | |
| | of recovery and charging | 9880894 |
| 32520 | Valve core replacing tool | 9880893 |
| 32520-555 | O-ring set complete | 9880892 |
| A-32000 | Valve core tool. Contains 6 extra cores | |
| | and one extra core remover and tap | 9880890 |



| Designation | Description | Part No. |
|------------------------|--|----------|
| 32515-1/2" | | |
| -20UNF (5/16" SAE) | Charging and evacuation valve key for fluid filling by Schrader valves. Saves about 50% of usual service time | 4660915 |
| 32520-1/2" | usuai service time | 4000310 |
| -20UNF (5/16" SAE) | Valve core replacing tool | 4660923 |
| 32520-1/2" | | |
| -20UNF (5/16" SAE)-555 | o-ring set complete | 4661245 |
| A-33410 | Access control valve R410A | 4681645 |
| | | |

Solenoid Valve Operating Magnet

- The quickest and easiest way to operate solenoid valves manually
- Converts electronically operated solenoid valves into hand operated valves in seconds
- Proven design that fits about 90% of solenoid valves
- Opening is 18 mm or 0.75 inch

| Designation | Description | Part No. |
|-------------|---------------------------------|----------|
| SVOM-18 | Solenoid valve operating magnet | 4660507 |

Access Valves - 1/4" SAE

| Designation | Description | Part No. |
|-------------|--|----------|
| A-31004/10 | Extended copper tube, diameter 1/4" | |
| | Packaged 10 per | 9883544 |
| A-31006/10 | With swaged tube suitable for 3/8" diameter | |
| | Packaged 10 per | 9884830 |
| A-33010 | Access control valve | 4681636 |
| NFT5-4/10 | Quick seal 1/4" SAE flare cap with gasket | |
| | Packaged 10 per | 9884244 |
| NFT-118/10 | Quick seal cap with built-in core remover 1/4" | SAE |
| | Packaged 10 per | 9884961 |

















INVERTER CHECK-KIT

The Inverter Check-Kit is an invaluable tool for the analysis of problems with Duct Free Mini Split Systems. The kit is designed to be used in both installation and maintenance of Duct Free Systems.

The Inverter Check-Kit performs two basic functions. First it will tell you if the phase outputs in the inverter are operating correctly. Secondly, the data flow function tells you if there is data flowing in both directions between the indoor and outdoor sections. Since inverters are controlled by solid state boards that do multiple functions, the Inverter Check-Kit will tell you if there is a bad board and help you identify if the indoor, outdoor or both boards are not functioning correctly.

T he inverter phase checker will indicate whether the Inverter board is faulty and by implication (if the inverter works then the compressor must be faulty) whether the compressor is faulty but it will not work if there are faults on both.

The kit comes complete with the electronic module with a set of leads for testing the serial communication links, as well as a selection of cables and connectors for the power output terminals of the inverter.

| Designation | Dimension | Part No. |
|--------------------|-------------------------|----------|
| INVERTER-CHECK-KIT | 3.19 x 2.87 x 1.10 inch | 4678571 |

16868

Ergonomic Piezo igniting head brazing torch for propane and Map Pro gas cylinder.

• Pressure adjustment function
• Safety locking system
• Focused cyclone flame with

high t

Remo

Part No

TOC

Superior quality tool bag designed with the professional trades person in mind. It provides maximum convenience and durability suitable for even the most demanding work environments.

- Large pockets for quick and easy access
- 600 Denier polyester cordura
- Lightweight design
- Reinforced points of wear



| | | Part No. Designation | Pg | Part No. Designation | Pg |
|----------------------------------|----|--|----------|--|----------|
| Part No. Index | | 4506589 BM2-6-F-R410A-CCL-72 | 34 | 4663247 OZ-4000 | 19 |
| | | 4506597 BM2-3-F-R410A-CCL-72 | 34 | 4663727 M2-3-DELUXE-F-R410A-FG-CA-CCL- | 60 39 |
| Part No. Designation | Pg | 4506601 BM2-3-F-Auto-Set-R134a-RC | 37 | 4664333 STARTEK-CASE | 54 |
| 1212648 M2-001 | 23 | 4506627 BM4-3-F-R12 | 35 | 4665118 A-31452-Y | 45 |
| 4490976 M4-6-09-B | 44 | 4506643 BM4-3-F-R22 | 35 | 4665305 BM2-6-F-R410A-FG-CA-CCL-60 | 34 |
| 4490984 M4-6-09-N | 44 | 4506759 M2-3-DELUXE-F-R134a-CCL-60 | 39 | 4665550 14210-01/10 | 63 |
| 4491000 M4-6-09-Y | 44 | 4506848 MK-2-3-F-R12 | 41 | 4665593 STARTEK-C-CASE | 55 |
| 4491018 M4-6-11 | 45 | 4506856 MK-2-3-F-R134a | 41 | 4666034 TW-8 | 68 |
| 4492936 CA-CL-36-Y | 49 | 4507061 GM2-8-F-R12 | 36 | 4666076 TELL-7 | 65 |
| 4492944 CA-CL-60-B | 49 | 4507071 GM2-8-F-R134a | 36 | 4666106 M4-6-15 | 45 |
| 4492952 CA-CL-60-R | 49 | 4507100 GM2-6-F-R12-CCL-60 | 36 | 4666726 M4-6-04-JUMBO | 45 |
| 4492961 CA-CL-60-Y | 49 | 4507118 GM2-6-F-R134a-CCL-60 | 36 | 4667413 KKS-38 | 69 |
| 4492979 CA-CL-72-B | 49 | 4507356 RL-8 | 12 | 4667472 R3-220-F-R22 | 26 |
| 4492987 CA-CL-72-R | 49 | 4507445 RL-8-303 | 13 | 4667480 R3-320-F-R22 | 26 |
| 4492995 CA-CL-72-Y | 49 | 4507577 ES-02 | 54 | 4667498 M2-8-DELUXE-F-R22 | 39 |
| 4493169 M4-6-11-T | 45 | 4507607 RL-8-3000 | 13 | 4667510 M2-3-DELUXE-F-R22-CCL-60 | 39 |
| 4493525 CA-1/4"SAE-B | 49 | 4507615 RL-8-3011 | 13 | 4667685 ECO-5 | 14 |
| 4493533 CA-1/4"SAE-R | 49 | 4507623 RL-8-3060 | 13 | 4667757 ECO-3/5/9-1 | 15 |
| 4493614 CA-CCL-36 | 48 | 4507631 RL-8-4071 | 13 | 4667774 ECO-3/5/9-3 | 15 |
| 4493622 CA-CCL-60 | 48 | 4507640 RL-8-4000 | 13 | 4667782 ECO-3/5/9-4 | 15 |
| 4493631 CA-CCL-72 | 48 | 4507658 RL-8-2A | 13 | 4667790 ECO-3/5/9-5 | 15 |
| 4493738 CA-1/4"SAE-Y | 49 | 4507674 RL-4-3000 | 13 | 4667820 ECO-3/5/9-8 | 15 |
| 4493916 R5-220-F-R12 | 27 | 4507682 RL-4-3011 | 13 | 4668028 RL-2-64 | 13 |
| 4493924 R5-320-F-R12 | 27 | 4507917 STARTEK | 54 | 4668036 RL-4-64 | 13 |
| 4495340 DV-44 | 15 | 4508203 RL-8-426 | 13 | 4668045 RL-8-64 | 13 |
| 4495358 DV-45 | 15 | 4530152 KM2-250-F-R12 | 22 | 4668053 RL-4/8-65 | 13 |
| 4495366 DV-46 | 15 | 4530161 KM2-500-F-R12 | 22 | 4668109 JUMBO-STAR-2-3-F-R12 | 42 |
| 4495421 CPV-CCL-60 | 50 | 4530179 KM2-250-F-R134a | 22 | 4668117 JUMBO-STAR-2-3-F-R134a | 42 |
| 4495471 RL-2/4-303 | 13 | 4530187 KM2-500-F-R134a | 22 | 4668533 CCL-60-CA | 48 |
| 4496761 RL-4/8-310 | 13 | 4660507 SVOM-18 | 70 | 4668559 CCL-36-CA | 48 |
| 4496770 RL-2/4/8-415 | 13 | 4660664 STARTEK-C | 55 | 4669407 TELL-7-LB | 65 |
| 4503261 BM2-6-F-R410A | 34 | 4660672 ES-C | 55 | 4669416 TELL-7-SB | 65 |
| 4503350 KM2-001 | 22 | 4660915 32515-1/2"-20UNF (5/16" SAE) | 70 | 4669432 TELL-7-BA-1/4" | 65 |
| 4505051 RL-4-406 | 13 | 4660923 32520-1/2"-20UNF (5/16" SAE) | 70 | 4669440 TELL-7-BA-5/16" | 65 |
| 4505239 BM2-3-F-R410A | 34 | 4661040 RL-2-406 | 13 | 4669458 TELL-7-BA-3/8" | 65 |
| 4505417 KM2-250-F-R22 | 22 | 4661245 32520-1/2"-20UNF (5/16" SAE)-555 | 70 | 4669466 TELL-7-BA-1/2" | 65 |
| 4505425 KM2-500-F-R22 | 22 | 4661423 RL-2/4-3060 | 13 | 4669475 TELL-7-BA-5/8" | 65 |
| 4505433 BM2-3-F-R410A-CCL-60 | 34 | 4661474 RL-4-4000 | 13 | 4669483 TELL-7-BA-3/4" | 65 |
| 4505477 M4-3-DELUXE-F-R12-CCL-60 | 40 | 4661482 RL-2-2A | 13 | 4669491 TELL-7-BA-7/8" | 65 |
| 4505710 BM2-6-F-R410A-CCL-60 | 34 | 4661538 RL-2-4000 | 13 | 4669513 TELL-7-HANDLE | 65 |
| 4505809 M2-3-DELUXE-F-R12-CCL-60 | 39 | 4661589 RL-2-3000 | 13 | 4669661 ECO-9 | 14 |
| 4505817 M2-8-DELUXE-F-R12 | 39 | 4661597 RL-2-3011 | 13 | 4669679 TELL-7-AD | 65 |
| 4506171 RF-888-Z | 64 | 4661601 RL-2 | 12 | 4669709 14297-RF-3/8" | 67 |
| 4506198 RF-175-FS | 64 | 4661954 RL-4-2A | 13 | 4669717 14297-RF-1/2" | 67 |
| 4506201 RFA-127-OFFSET | 69 | 4662399 R3-220-F-R410A-FG | 26 | 4669726 14297-RF-5/8" | 67 |
| 4506490 BM2-8-F-R22 | | 4662403 R3-320-F-R410A-FG | | | |
| 4506502 BM2-6-F-R22 | 34 | 4662526 BM2-6-F-R410A-FG-CCL-60 | 26 34 | 4669734 14297-RF-3/4" 4669742 14297-RF-7/8" | 67 67 |
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| 4506520 BM2-6-F-R22-CCL-60 | 34 | 4662535 BM2-8-F-R410A-FG | 34 | 4669750 14297-RF-1" 4660768 14207 PE 1 1/8" | |
| 4506554 BM2-6-F-R22-CCL-72 | 34 | 4662543 M2-3-DELUXE-F-R410A-FG-CCL-60 | | 4669768 14297-RF-1 1/8" | 67 |
| 4506562 BM2-3-F-R22 | 34 | 4662624 M4-6-04-R/10 | 45 | 4669776 14297-RF-1 3/8" | 67 |
| 4506571 BM2-8-F-R410A | 34 | 4663239 POWERMAX | 18 | 4669785 14297-RF-1 5/8" | 67 |

| Part No. Designation | Pg | Part No. Designation | Pg | Part No. Designation | Pg |
|--|----------|---|----------|---|----------|
| 4669997 M4-3-DELUXE-F-R410A-FG-CCL-60 | 40 | 4677451 M2-GS | 45 | 4686280 APEX-7-F-R410A-FG-CA-CCL-60 | 33 |
| 4670406 1997-1 | 18 | 4677621 BR-4IN1 | 63 | 4686417 JUMBO-STAR-2-3-F-R410A-FG | 42 |
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| 4670414 ALF-032 | 19 | 4678911 ECO-3-9 | 15 | 4686703 TRACE-LOCATOR-TV-01 | 53 |
| 4670562 3000-60 | 18 | 4678929 ECO-5-9 | 15 | 4686705 REF-LOCATOR-TV-01 | 52 |
| 4670562 3000-60 | 19 | 4678937 ECO-9-9 | 15 | 4686707 REF-LOCATOR-CASE | 52 |
| 4671011 400-15 | 18 | 4678946 ECO-3-10 | 15 | 4686708 TRACE-LOCATOR-CASE | 53 |
| 4671011 400-15 | 19 | 4678954 ECO-5-10 | 15 | 4686712 REF-VAC | 29 |
| 4671526 2070-10 | 18 | 4678962 ECO-9-10 | 15 | 4686713 DIGIMON-VAC | 30 |
| 4671526 2070-10 | 19 | 4678970 ECO-3-11 | 15 | 4686714 REF-LOCATOR | 52 |
| 4671801 3000-9-1 | 19 | 4678988 ECO-5-11 | 15 | 4686715 TRACE-LOCATOR | 53 |
| 4672441 3000-72 | 18 | 4678996 ECO-9-11 | 15 | 4686730 DIGIMON-SE-CASE | 30 |
| 4672441 3000-72 | 19 | 4679462 REF-METER-OCTA | 57 | 4686742 OCTA-WIRELESS-KIT | 56 |
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| 4674079 2277 | 19 | 4680079 GPK-35-04 | 58 | 4686750 DIGIMON-SE-3 | 31 |
| 4674087 1997-10 | 18 | 4680087 GPK-35-02 | 58 | 4686752 OCTA-WIRELESS-CONTROL-BOX | 56 |
| 4674087 1997-10 | 19 | 4680096 GPK-35-01 | 58 | 4686813 REF-METER-OCTA-CONTROL-BOX | 57 |
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| 4674096 3000-73 | 19 | 4680117 GPK-35-SIGHT-GLASS | 58 | 4686821 LOCATOR-FILTER/5 | 53 |
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| 4674681 AA-30 | 18 | 4681466 DIGIMON-CLAMP | 30 | 4686828 LOCATOR-LED-WHITE/6 | 53 |
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| 4674699 AA-50 | | | | | 53 |
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| 4675318 R5-320-F-R410A-FG | 27 | 4682047 CA-CL-9-R-M | 49 | 4687065 RFA-209-01/3 | 63 |
| 4675326 BM4-3-F-R410A-FG | 35 | 4682056 CA-CL-9-B-M | 49 | 4687078 19805-12/2 | 28 |
| 4675335 BM4-3-F-R410A-FG-CCL-60 | 35 | 4682293 REF-CLASS-GAUGE | 43 | 4687079 M2-7-SET-B+R | 44 |
| 4675343 SM2-8-F-R410A-FG | 38 | 4682692 ECO-5-DV | 14 | 4687080 M2-6-09-B+R | 44 |
| 4675351 SM2-6-F-R410A-FG-CCL-60 | 38 | 4682722 RS-16 | 62 | 4687093 M4-6-04-R/4 | 45 |
| 4675369 SM2-3-F-R410A-FG-CCL-60 | 38 | 4682730 RS-25 | 62 | 4687094 M4-7-SET-B-N-R-Y | 44 |
| 4675377 APEX-7-F-R12 | 33 | 4682748 RS-35 | 62 | 4687095 QC-S410A/2 | 47 |
| 4675386 APEX-7-F-R22 | 33 | 4682756 RS-42 | 62 | 4687097 RS-001/3 | 62 |
| 4675394 APEX-7-F-R134a | 33 | 4683078 TOOL-BAG | 71 | 4687098 19803/2 | 28 |
| 4675407 APEX-7-F-R410A-FG | 33 | 4683477 GPK-35 | 58 | 4687104 M2-10-95-R/2 | 44 |
| 4675416 APEX-7-F-R12-CCL-60 | 33 | 4683507 REF-SCOPE-MIRROR | 61 | 4687105 M2-10-95-R/4 | 44 |
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| 4675432 APEX-7-F-R134a-CCL-60 | 33 | 4683524 REF-SCOPE-MAGNET | 61 | 4687344 HY-EX-1/4" | 66 |
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| 4675475 APEX-9-F-R134a | 33 | 4684580 ECO-3/5-20N | 15 | 4687348 HY-EX-1 5/8" | 66 |
| 4675483 APEX-9-F-R410A-FG | 33 | 4684589 DIGIMON-SE-3-CLAMP | 31 | 4687365 HY-EX-5/8" | 66 |
| 4675491 M2-8-DELUXE-F-R410A-FG | 39 | 4684590 DIGIMON-SE-3-CLAMP-VAC | 31 | 4687366 HY-EX-1/2" | 66 |
| 4676110 NFT5-4-K-Green | 15 | 4684591 DIGIMON4-3-CLAMP-VAC | 31 | 4687367 HY-EX-3/8" | 66 |
| 4676128 NFT5-6-K-Green | 15 | 4684593 ENVIRO | 16 | 4687368 HY-EX-3/4" | 66 |
| 4677451 M2-GS | 23 | 4684604 ECO-9-20 | 15 | 4687369 HY-EX-7/8" | 66 |
| 4677451 M2-GS | 35 | 4684605 ENVIRO-DUO | 17 | 4687370 HY-EX-1 1/8" | 66 |

| 4887454 M2-500-F-R410A/R32 23 9881628 RFA-105-FF 6 6 4887475 APEX-7-F-R410A/R32-CCL-60 33 9881630 14285 6 6 4887477 HY-EX-11/2* 66 9881557 21751 6 6 4887478 HY-EX-11/4* 66 9881559 21702 6 6 9881550 14225 6 6 4887478 HY-EX-11/4* 66 9881550 14225 6 6 4887478 HY-EX-11/4*SAE-N 29 9881561 14144 6 6 7218188 M2-250-F-R410A-FG 23 9881562 14142 6 6 7218358 M2-500-F-R410A-FG 23 9881562 14142 6 6 7218358 M2-500-F-R410A-FG 23 98815671 525-F 6 6 7635147 M2-500-F-R410A-FG 23 9881671 525-F 6 6 7635147 M2-500-F-R22 23 9881608 T21100 6 6 7714013 GR-220-F-R12 24 9881609 T21000 6 7714038 GR-320-F-R12 24 9881610 T21018 6 771402 GR-320-F-R12 24 9881611 T21014 6 7714102 GR-320-F-R12 23 9881613 T21010 6 782962 M2-250-F-R12 23 9881613 T21007 6 6 988069 P-513/10 47 9881615 T21007 6 6 988069 P-513/10 47 9881615 T21007 6 6 988069 P-513/10 47 9881615 T21007 6 6 988069 P-513/10 47 9881618 T21004 6 988069 P-513/10 47 9881618 T21004 6 988069 P-513/10 47 9881618 T21004 6 988069 P-513/10 47 9881618 T21002 6 6 988069 P-513/10 47 9881618 T21004 6 988069 P-513/10 47 9881618 T21002 6 6 988069 P-513/10 47 9881618 T21004 6 6 988069 P-513/10 47 9881618 T21002 6 6 6 988069 P-513/10 47 9881618 T21002 6 6 6 6 988069 P-513/10 47 9881618 T21002 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | Part No. | Designation | Pg | Part No. Designation | Pg |
|--|----------|---------------------------|----|-----------------------|----|
| 4887455 APEX-7-F-R410A/R32-CCL-60 33 9881530 14285 66 4887477 HY-EV-1 1/2" 66 9881557 21751 66 4887478 HY-EV-1 1/4" 66 9881559 21702 66 4887478 HY-EV-1 1/4" 66 9881559 21702 66 4887679 HY-OIL 66 9881550 21702 66 4887679 HY-OIL 66 9881550 14142 66 7218188 M2-250-F-R410A-FG 23 9881561 14144 66 7218188 M2-250-F-R410A-FG 23 9881561 14144 66 7218358 M2-500-F-R410A-FG 23 9881571 525-F 66 7383043 M2-250-F-R22 23 9881571 525-F 66 7383147 M2-500-F-R22 23 9881571 525-F 66 7383147 M2-500-F-R22 24 9881609 721000 66 7714064 GR-220-F-R124 24 9881609 721000 66 7714064 GR-220-F-R124 24 9881610 721018 66 7714068 GR-320-F-R12 24 9881610 721018 66 7714068 GR-320-F-R12 24 9881611 721014 66 7714068 GR-320-F-R12 23 9881612 721012 66 7829168 M2-250-F-R12 23 9881613 721010 66 7829962 M2-250-F-R12 23 9881613 721010 66 7829962 M2-250-F-R410A 23 9881613 721007 66 7829962 M2-250-F-R410A 23 9881616 721006 66 98808672 P-510/10 47 9881618 721005 66 98808672 P-509/10 47 9881618 721002 66 98808672 P-509/10 47 9881618 T21004 66 98808672 D-509-F110 47 9881618 T21004 66 98808672 P-509/10 47 9981618 68 9880872 P-509/10 47 9981618 68 9880872 P-509/10 47 9981618 68 9880 | 4687453 | M2-250-F-R410A/R32 | 23 | 9881527 14200 | 63 |
| 4887477 HYEX-1 1/2" 66 9881567 21751 6 4887478 HY-EX-1 1/4" 66 9881569 21702 6 4887478 HY-EX-1 1/4" 66 9881569 14225 6 4887679 HY-OIL 66 9881569 14225 6 4887673 SWIVEL-ARM-1/4"SAE-N 29 9881561 14144 6 4887673 SWIVEL-ARM-1/4"SAE-N 29 9881561 14144 6 4887673 SWIVEL-ARM-1/4"SAE-N 29 9881561 14142 6 7218358 M2-500-F-R410A-FG 23 9881562 14142 6 7218358 M2-500-F-R410A-FG 23 9881575 FF-275-FS 6 735303 M2-250-F-R22 23 9881575 FF-275-FS 6 735303 M2-250-F-R12 24 9881609 721000 6 7714004 GR-220-F-R12 24 9881609 721000 6 7714004 GR-220-F-R12 24 9881609 721000 6 7714096 GR-220-F-R12 24 9881610 721018 6 7714098 GR-320-F-R12 24 9881610 721018 6 7714098 M2-250-F-R12 23 9881617 721010 6 782968 M2-250-F-R12 23 9881613 721010 6 7829698 M2-250-F-R410A 23 9881614 721006 6 7829699 P-510/10 47 9881617 721005 6 988069 P-510/10 47 9881617 721005 6 9880670 P-510/10 47 9881618 721004 6 9880670 P-510/10 47 9881618 721004 6 9880670 P-500-F/10 47 9881618 721004 6 9880670 P-500-F/10 47 9881618 721004 6 9880671 P-500-F/10 47 9881619 721002 6 9880689 32520-555 70 988163 788-12 6 9880689 32520-555 70 988163 PS-12 6 9880690 A-32000 70 9881637 PS-12 6 9880690 A-32000 70 9881637 PS-12 6 9881230 CPV-60-P 50 9881639 PS-3 6 9881230 CPV-60-P 50 9881639 PS-3 6 9881230 CPV-60-P 50 9881649 PS-209 6 9881230 CPV-60-P 46 988267 PF-209 SPI/O 4 9881230 CPV-60-P 50 9881649 PS-209 6 9881230 CPV-60-P 46 988267 PF-209 SPI/O 4 9881230 CPV-60-P 46 988267 PF-209 SPI/O 4 9881230 CPV-60-P 46 988269 PF-209 SPI/O 4 9881230 CPV-60-P 46 988269 PF-209 SPI/O 46 9881250 CPV-60-P 46 988269 PF-209 SP | 4687454 | M2-500-F-R410A/R32 | 23 | 9881528 RFA-105-FF | 63 |
| 4887478 HYEX-1 1/4" 66 9881559 21702 64 4887579 HY-OIL 66 9881560 14225 66 4887531 SWIVEL-ARM-1/4"SAE-N 29 9881561 14144 66 7218188 M2-250-F-R410A-FG 23 9881571 525-F 67 7635083 M2-500-F-R410A-FG 23 9881571 525-F 67 7635083 M2-250-F-R12 23 9881608 721100 66 7714004 GR-220-F-R12 24 9881609 721000 67 7714004 GR-220-F-R12 24 9881610 721018 66 7714004 GR-320-F-R12 24 9881611 721014 66 7714102 GR-320-F-R12 23 9881613 721010 66 7829168 M2-250-F-R12 23 9881613 721010 66 7829168 M2-250-F-R12 23 9881613 721010 66 7829168 M2-250-F-R12 23 9881613 721010 66 7829169 M2-250-F-R140A 23 9881615 721007 66 7829169 M2-250-F-R410A 23 9881616 721006 66 9880609 P-510/10 47 9881616 721006 66 9880609 P-510/10 47 9881618 721004 66 9880609 P-510/10 47 9881618 721004 66 9880609 P-510/10 47 9881618 721002 66 9880609 A-32000 70 9881639 BS-12 66 9881250 CPV-60-R 50 9881639 BS-16 66 9881250 CPV-60-R 50 9881639 BS-4 66 9881250 CL-72-R 46 9881649 RFA-209 66 9881250 CL-72-R 46 9881650 FRA-364-FH-10 66 9881250 CL-72-R 46 988166 FRA-364-FH-10 69 9881250 CL-60-R 46 988167 FRA-364-FH-10 69 9881250 CL-60-R 46 988167 FRA-364-FH-10 69 9881250 CL-60-R 46 988264 A-31004/10 7 9881250 CL-60-R 46 988266 RFA-364-FH-10 69 9881270 CL-48-R 46 988266 RFA-364-FH- | 4687455 | APEX-7-F-R410A/R32-CCL-60 | 33 | 9881530 14285 | 63 |
| 4687679 HY-OIL 66 9881560 14225 66 4687631 SWIVEL-ARM-1/4*SAE-N 29 9881561 14144 66 7218188 M2-250F-R410A-FG 23 9881562 14142 67 7218188 M2-250F-R410A-FG 23 9881575 B2-FF 68 7218358 M2-250F-R422 23 9881575 B7-275-FS 67 7635031 M2-250F-R22 23 9881508 T21100 68 7714013 GR-220F-R112 24 9881608 T21100 68 7714064 GR-220F-R12 24 9881601 T21018 66 7714068 GR-320F-R12 24 9881610 T21018 66 7714068 GR-320F-R12 24 9881611 T21014 68 7714102 GR-320F-R134a 24 9881611 T21014 68 7714102 GR-320F-R12 23 9881613 T21010 66 7829168 M2-250F-R12 23 9881613 T21010 66 7829567 M2-500F-R12 23 9881613 T21010 66 7829962 M2-250F-R410A 23 9881613 T21007 66 7830000 M2-500F-R410A 23 9881615 T21007 66 7830000 M2-500F-R410A 23 9881616 T21006 68 9880697 P-513/10 47 9881618 T21005 66 9880697 P-510/10 51 9881618 T21004 66 9880697 P-509-710 47 9881620 T21002 66 9880697 P-509-710 47 9881620 T21002 66 9880890 A-32000 70 9881620 B3-12 66 9881230 CPV-60-P 50 9881630 BS-8 66 9881230 CPV-60-P 50 9881630 BS-8 66 9881230 CPV-60-P 50 9881630 BS-7 66 9881230 CPV-60-P 50 9881630 BS-7 66 9881250 CL-72-B 46 9881657 FR-364-FH-10 66 9881250 CL-72-B 46 9881657 FR-364-FH-10 66 9881250 CL-72-R 46 9881260 CL-60-R 46 9881260 FR-364-FH-10 79 9881270 CL-48-R 46 9882541 M3-6-10 49 9881270 CL-48-R 46 9882541 FR-3341 39 9881270 CL-48-R 46 988441 R3-220-FR-8344 220-FR-8344 220-FR-8344 220 | 4687477 | HY-EX-1 1/2" | 66 | 9881557 21751 | 69 |
| 4887631 SWIVEL-ARIM-1/4*SAE-N 29 9881561 14144 68 7218188 M2-250-F-R410A-FG 23 9881562 14142 68 7218385 M2-900-F-R410A-FG 23 9881571 525-F 68 7635083 M2-250-F-R22 23 9881575 FB-275-FS 68 7635147 M2-500-F-R22 23 9881608 T21100 68 7714013 GR-220-F-R12 24 9881609 T21000 68 7714064 GR-220-F-R134a 24 9881609 T21000 68 7714098 GR-320-F-R12 24 9881610 T21018 66 7714098 GR-320-F-R12 24 9881611 T21014 68 7714098 GR-320-F-R12 24 9881611 T21012 68 7829168 M2-250-F-R140A 24 9881613 T21010 66 7829982 M2-250-F-R410A 23 9881613 T21010 66 7829982 M2-250-F-R410A 23 9881615 T21007 68 7830000 M2-500-F-R410A 23 9881615 T21007 68 9880870 P-510/10 47 9881616 T21006 66 9880870 P-510/10 47 9881618 T21004 66 9880871 P-509-710 47 9881618 T21004 66 9880871 P-509-710 47 9881620 T21002 68 9880892 32520-555 70 9881639 BS-12 68 9880892 32520-555 70 9881639 BS-12 68 9880893 32520 70 9881639 BS-12 68 9881230 CPV-60-P 50 9881641 BS-6 68 9881230 CPV-60-P 50 9881641 BS-6 68 9881230 CPV-60-P 50 9881641 BS-6 68 9881250 CL-72-R 46 9881657 RFA-368-FH 68 9881250 CL-72-R 46 9881657 RFA-368-FH 68 9881250 CL-36-B 46 9881657 RFA-368-FH 10 68 9881250 CL-36-B 46 9881657 RFA-368-FH 10 68 9881250 CL-48-B 46 9881667 RFA-364-FH-10 68 9881250 CL-48-B 46 9881667 RFA-364-FH-10 68 9881251 CL-48-R 46 9881667 RFA-364-FH-10 68 9881250 CL-48-R 46 9881667 RFA-364-FH-10 68 9881251 CL-48-R 46 9881667 RFA-364-FH-10 68 9881251 CL-48-R 46 9881667 RFA-364-FH-10 68 9881250 CL-72-R 46 9881250 CL-72-R 46 9881250 CL-72-R 46 9881250 CL-88-R | 4687478 | HY-EX-1 1/4" | 66 | 9881559 21702 | 69 |
| 7218188 M2-250-F-R410A-FG 23 9881562 14142 6 7218358 M2-500-F-R410A-FG 23 9881571 525-F 6 763503 M2-250-F-R22 23 9881575 FE-275-FS 6 7635147 M2-500-F-R22 23 9881608 T21100 6 7714013 GR-220-F-R12 24 9881609 T21000 6 7714098 GR-220-F-R12 24 9881610 T21018 6 7714098 GR-220-F-R12 24 9881610 T21014 6 7714102 GR-320-F-R134a 24 9881611 T21014 6 7714102 GR-320-F-R12 23 9881611 T21012 6 7829168 M2-250-F-R12 23 9881613 T21010 6 7829967 M2-500-F-R12 23 9881613 T21010 6 7829962 M2-250-F-R12 23 9881613 T21010 6 7829962 M2-250-F-R12 23 9881615 T21008 6 7829962 M2-250-F-R10A 23 9881616 T21008 6 7829962 M2-250-F-R10A 23 9881616 T21006 6 988069 P-513/10 47 9881617 T21005 6 988069 P-513/10 47 9881617 T21005 6 988069 P-510/10 47 9881618 T21004 6 988067 P-509-7/10 47 9881618 T21002 6 9880689 P-509-7/10 47 9881618 T21002 6 9880689 A-32000 70 9881622 14338 6 9880692 32520-555 70 9881638 BS-10 6 9880693 32520-555 70 9881638 BS-10 6 9880694 32515 70 9881639 BS-8 6 9881037 14215 63 9881640 BS-7 6 9881250 CPV-60-P 50 9881648 BS-4 6 9881250 CPV-60-P 50 9881649 PR-209 6 9881250 CPV-60-P 50 9881649 PR-209 6 9881250 CPV-60-P 50 9881649 PR-209 6 9881250 CL-72-R 46 9881649 PR-209 6 9881250 CL-72-R 46 9881649 PR-209 6 9881250 CL-72-R 46 9881649 PR-304-FH-10 6 9881250 CL-36-R 46 9881657 PR-368-FH 6 9881260 CL-60-R 46 9882474 19801 29 9881270 CL-48-R 46 988244 N-F5-4/10 7 9881270 CL-48-R 46 988247 PR-209-STYLO 6 9881270 CL-48-R 46 9884480 PR-209-STYLO 6 9881270 CL-48-R 46 9884480 PR-209-STYLO 6 9881270 CL-48-R 46 9884480 PR-209-STYLO 6 9881270 CL-48-R 46 9882474 19801 22 9881270 CL-48-R 46 9882474 19801 22 9881270 CL-48-R 46 9882474 PR-209-STYLO 6 9881270 CL-48-R 46 9882474 PR-209-STYLO 6 9881270 CL-48-R 46 9882474 PR-209-STYLO 6 9881270 CL-48-R 46 9882480 PR-209-STYLO 6 9881270 CL-48-R 46 9882480 PR-209-STYLO 6 988127 | 4687579 | HY-OIL | 66 | 9881560 14225 | 69 |
| 7218358 M2-500-F-R410A-FG 23 9881571 525-F 6 6 7635083 M2-250-F-R22 23 9881575 RF-275-FS 6 6 7635083 M2-250-F-R22 23 9881608 T21100 6 6 7714013 GR-220-F-R12 24 9881610 T21018 6 6 7714004 GR-220-F-R134a 24 9881610 T21018 6 6 7714006 GR-220-F-R134a 24 9881610 T21018 6 6 7714006 GR-220-F-R134a 24 9881611 T21014 6 6 7714002 GR-320-F-R12 24 9881611 T21014 6 6 7714102 GR-320-F-R12 23 9881613 T21010 6 6 782962 M2-250-F-R12 23 9881613 T21010 6 6 782962 M2-250-F-R12 23 9881613 T21010 6 6 782962 M2-250-F-R12 23 9881615 T21007 6 7830000 M2-500-F-R12 23 9881615 T21007 6 6 7830000 M2-500-F-R410A 23 9881615 T21007 6 6 7830000 M2-500-F-R410A 23 9881616 T21006 6 6 783000 M2-500-F-R410A 23 9881616 T21006 6 6 783000 M2-500-F-R410A 23 9881616 T21006 6 6 783000 M2-500-F-R410A 23 9881616 T21006 6 6 988067 P-510/10 51 9881618 T21004 6 6 988067 P-510/10 51 9881618 T21004 6 6 988067 P-509-T/10 47 9881619 T21003 6 6 988067 P-509-T/10 47 9881619 T21003 6 6 9880692 32520-555 70 9881620 T21002 6 6 9881620 X-32000 70 9881623 BS-10 6 6 9880692 32520-555 70 9881623 BS-10 6 6 9881620 X-32000 70 9881623 BS-10 6 6 9881620 CP-60-V 50 9881624 BS-6 6 6 9881625 CPV-60-B 50 9881624 BS-7 6 6 9881250 CPV-60-R 50 9881624 BS-6 6 6 9881250 CPV-60-R 50 9881624 BS-6 6 6 9881250 CPV-60-R 50 9881624 BS-6 6 9881250 CPV-60-R 50 9881626 FR-364-FH-12 6 9881250 CL-72-R 46 9881260 CL-72-R 46 9881260 CL-72-R 46 9881260 CL-60-R 46 9881260 FR-364-FH-10 6 9881250 CL-36-R 46 9881260 CL-60-Y 46 9883251 PR-364-FH-10 7 9881250 CL-36-R 46 9882544 AN-5104/10 7 7 9881270 CL-38-Y 46 9883254 AN-5104/10 7 7 9883276 CL-36-Y 46 9883254 AN-5104/10 7 7 9883276 CL-36-Y 4 | 4687631 | SWIVEL-ARM-1/4"SAE-N | 29 | 9881561 14144 | 69 |
| 7635083 M2-250-F-R22 23 9881675 RF-275-FS 6 7635147 M2-500-F-R22 23 9881608 T21100 6 7714013 GR-220-F-R12 24 9881609 T21000 6 7714098 GR-320-F-R134a 24 9881611 T21014 6 7714102 GR-320-F-R12 24 9881612 T21012 6 782968 GR-320-F-R12 23 9881613 T21010 6 782967 M2-500-F-R12 23 9881613 T21010 6 782982 M2-250-F-R410A 23 9881615 T21007 6 7830000 M2-500-F-R410A 23 9881616 T21006 6 9880820 P-513/10 47 9881618 T21004 6 9880872 P-509/10 47 9881619 T21002 6 9880893 A-32000 70 9881620 T21002 6 9880893 2520-555 70 9881638 | 7218188 | M2-250-F-R410A-FG | 23 | 9881562 14142 | 69 |
| 7635147 M2-500-F-R22 23 9881608 T21100 66 7714013 GR-220-F-R12 24 9881609 T21000 66 7714064 GR-220-F-R134a 24 9881610 T21018 66 7714069 GR-320-F-R12 24 9881611 T21014 67 7714102 GR-320-F-R134a 24 9881611 T21012 66 7714102 GR-320-F-R134a 24 9881611 T21010 66 782966 M2-250-F-R12 23 9881613 T21010 66 782968 M2-250-F-R12 23 9881613 T21007 66 7829982 M2-250-F-R410A 23 9881615 T21007 66 7829982 M2-250-F-R410A 23 9881615 T21007 66 7830000 M2-500-F-R410A 23 9881616 T21006 66 9880869 P-513/10 47 9881617 T21005 66 9880870 P-510/10 51 9881618 T21004 66 9880871 P-509-T/10 47 9881619 T21003 66 9880872 P-509/10 47 9881620 T21002 66 9880892 32520-555 70 9881620 T21002 66 9880893 32520 70 9881638 BS-10 66 9880893 32520 70 9881638 BS-10 66 9881235 CP-60-B 50 9881640 BS-7 66 9881235 CP-60-B 50 9881641 BS-6 66 9881255 CL-80-B 46 9881649 RF-A-209 66 9881255 CL-36-B 46 9881667 RF-A-364-FH-10 66 9881268 CL-72-R 46 9881667 RF-A-364-FH-10 66 9881268 CL-72-R 46 9881261 T2-72-R 46 9881261 CL-80-R 46 9882473 19800-SV 2 9881261 CL-80-R 46 9882473 19800-SV 2 9881262 CL-30-R 46 9882474 19801 2 2 9881276 CL-48-R 46 9882478 18-200-FR134a 3 2 9881276 CL-48-R 46 9882478 18-200-FR134a 2 2 | 7218358 | M2-500-F-R410A-FG | 23 | 9881571 525-F | 64 |
| 7714013 GR-220-F-R12 24 9881609 T21000 66 7714064 GR-220-F-R134a 24 9881610 T21018 66 7714098 GR-320-F-R134a 24 9881611 T21014 66 7714102 GR-320-F-R134a 24 9881612 T21012 66 782968 M2-250-F-R12 23 9881613 T21010 66 7829567 M2-500-F-R12 23 9881613 T21010 66 7829567 M2-500-F-R12 23 9881614 T21006 66 7829982 M2-250-F-R10A 23 9881615 T21007 66 7839000 M2-500-F-R410A 23 9881615 T21007 66 988089 P-513/10 47 9881617 T21005 66 988089 P-513/10 47 9881618 T21004 66 988087 P-509-T/10 51 9881618 T21004 66 988087 P-509-T/10 47 9881619 T21003 66 9880892 P-509/10 47 9881620 T21002 66 9880893 32520 70 9881637 BS-12 66 9880893 32520 70 9881637 BS-12 66 9881087 14215 63 9881640 BS-7 66 9881230 CPV-60-Y 50 9881641 BS-6 66 9881230 CPV-60-R 50 9881648 BS-4 66 9881250 CL-72-B 46 9881649 FRA-209 66 9881250 CL-72-B 46 9881659 FRA-209 66 9881250 CL-72-B 46 9881659 FRA-364-FH-12 66 9881250 CL-72-B 46 9881657 FRA-364-FH-10 66 9881250 CL-72-R 46 9881657 FRA-364-FH-10 66 9881260 CL-60-R 46 9882473 19800-SV 22 9881270 CL-48-R 46 988265 DT-100 47 9881260 CL-60-R 46 988265 DT-100 47 9881270 CL-48-R 46 988265 DT-100 49 9881260 CL-60-R 46 988265 FRA-364-FH-10 66 9881260 CL-60-R 46 988265 FRA-364-FH-10 79 9881260 CL-72-R 46 9881667 FRA-364-FH-10 79 9881270 CL-48-R 46 988265 DT-500 57 9881270 CL-48-R 46 9884480 FRA-209-STYLO 66 9881270 CL-48-R 46 9884480 FRA-209-STYLO 79 | 7635083 | M2-250-F-R22 | 23 | 9881575 RF-275-FS | 64 |
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| 9881087 14215 63 9881640 BS-7 66 9881230 CPV-60-Y 50 9881641 BS-6 66 9881235 CPV-60-B 50 9881642 BS-5 66 9881240 CPV-60-R 50 9881648 BS-4 66 9881250 CL-72-B 46 9881649 RFA-209 66 9881251 CL-60-B 46 9881657 RFA-368-FH 66 9881252 CL-48-B 46 9881665 RFA-364-FH-12 66 9881253 CL-36-B 46 9881666 RFA-364-FH-10 66 9881259 CL-72-R 46 9881667 RFA-364-FH-08 66 9881260 CL-60-R 46 9882473 19800-SV 2 9881261 CL-48-R 46 9882474 19801 2 9881262 CL-36-R 46 9883544 A-31004/10 7 9881269 CL-60-Y 46 9883750 RFA-209-STYLO 67 9881270 CL-48-Y 46 9884244 NFT5-4/10 7 9881271 CL-36-Y 46 9884480 R3-320-F-R134a 3 9881277 CCL-48 46 9884480 R3-320-F-R134a 2 9881277 CCL-48 46 9884480 R3-320-F-R134a 2 | | | | | 64 |
| 9881230 CPV-60-Y 50 9881641 BS-6 66 9881235 CPV-60-B 50 9881642 BS-5 66 9881240 CPV-60-R 50 9881648 BS-4 66 9881250 CL-72-B 46 9881649 RFA-209 66 9881251 CL-60-B 46 9881665 RFA-368-FH 66 9881252 CL-48-B 46 9881666 RFA-364-FH-12 66 9881253 CL-36-B 46 9881667 RFA-364-FH-10 67 9881259 CL-72-R 46 9881667 RFA-364-FH-08 68 9881260 CL-60-R 46 9882473 19800-SV 20 9881261 CL-48-R 46 9882474 19801 22 9881262 CL-36-R 46 9882584 M4-6-10 47 9881269 CL-72-Y 46 9883540 RFA-209-STYLO 68 9881271 CL-36-Y 46 9884240 NFT5-4/10 77 9881275 CCL-72 46 9884480 R3-320-F-R134a 38 9881277 CCL-48 46 9884480 R3-320-F-R134a 29 9881278 CCL-36 46 9884481 R3-220-F-R134a 29 9881278 CCL-36 46 9884481 R3-220-F-R134a 29 9881313 HCL6-60-Y 51 9884482 R3-320-F-R134a | | | | | 64 |
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| 9881240 CPV-60-R 9881250 CL-72-B 46 9881648 BS-4 69881657 RFA-368-FH 69881252 CL-48-B 46 9881657 RFA-368-FH 69881253 CL-36-B 46 9881666 RFA-364-FH-12 69881253 CL-36-B 46 9881666 RFA-364-FH-10 69881259 CL-72-R 46 9881260 CL-60-R 46 9882473 19800-SV 29881261 CL-48-R 46 9882474 19801 29881262 CL-36-R 46 9882584 M4-6-10 4 9881268 CL-72-Y 46 9883750 RFA-209-STYLO 60 9881270 CL-48-Y 46 9884244 NFT5-4/10 7 9881271 CL-36-Y 46 9884480 R3-320-F-R134a 2 9881278 CCL-36 46 9884481 R3-220-F-R134a 2 9881278 CCL-36 46 9884481 R3-220-F-R134a 2 9881278 CCL-36 46 9884481 R3-220-F-R134a | | | | | 64 |
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| 9881251 CL-60-B | | | | | 63 |
| 9881252 CL-48-B | | | | | 65 |
| 9881253 CL-36-B | | | | | 65 |
| 9881259 CL-72-R | | | | | 65 |
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| 9881268 CL-72-Y 46 9883544 A-31004/10 7 9881269 CL-60-Y 46 9883750 RFA-209-STYLO 6 9881270 CL-48-Y 46 9884244 NFT5-4/10 7 9881271 CL-36-Y 46 9884365 DT-150 5 9881275 CCL-72 46 9884439 BM2-8-F-R134a 3 9881276 CCL-60 46 9884479 R3-220-F-R12 2 9881277 CCL-48 46 9884480 R3-320-F-R12 2 9881278 CCL-36 46 9884481 R3-220-F-R134a 2 9881313 HCL6-60-Y 51 9884482 R3-320-F-R134a 2 | | | | | 44 |
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| 9881270 CL-48-Y 46 9884244 NFT5-4/10 7 9881271 CL-36-Y 46 9884365 DT-150 5 9881275 CCL-72 46 9884439 BM2-8-F-R134a 3 9881276 CCL-60 46 9884479 R3-220-F-R12 2 9881277 CCL-48 46 9884480 R3-320-F-R12 2 9881278 CCL-36 46 9884481 R3-220-F-R134a 2 9881313 HCL6-60-Y 51 9884482 R3-320-F-R134a 2 | | | | | 70 |
| 9881271 CL-36-Y 46 9884365 DT-150 5 9881275 CCL-72 46 9884439 BM2-8-F-R134a 3 9881276 CCL-60 46 9884479 R3-220-F-R12 2 9881277 CCL-48 46 9884480 R3-320-F-R12 2 9881278 CCL-36 46 9884481 R3-220-F-R134a 2 9881313 HCL6-60-Y 51 9884482 R3-320-F-R134a 2 | | | | | 63 |
| 9881275 CCL-72 46 9884439 BM2-8-F-R134a 3 9881276 CCL-60 46 9884479 R3-220-F-R12 2 9881277 CCL-48 46 9884480 R3-320-F-R12 2 9881278 CCL-36 46 9884481 R3-220-F-R134a 2 9881313 HCL6-60-Y 51 9884482 R3-320-F-R134a 2 | | | | | 70 |
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| 9881313 HCL6-60-Y 51 9884482 R3-320-F-R134a 2 | | | | | 26 |
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| 9881466 RFA-127-C 69 9884719 CL-36-Y-J2196 4 | | | | | 26 |
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| 9881526 14210 63 9884721 CL-36-B-J2196 4 | 9881526 | 14210 | 63 | 9884721 CL-36-B-J2196 | 47 |

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| 9884722 | CL-60-Y-J2196 | 47 |
| 9884723 | CL-60-R-J2196 | 47 |
| 9884724 | CL-60-B-J2196 | 47 |
| 9884725 | CL-72-Y-J2196 | 47 |
| 9884726 | CL-72-R-J2196 | 47 |
| 9884727 | CL-72-B-J2196 | 47 |
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| 9884948 | RC01-R | 37 |
| 9884949 | RC01-B | 37 |
| 9884961 | NFT-118/10 | 70 |

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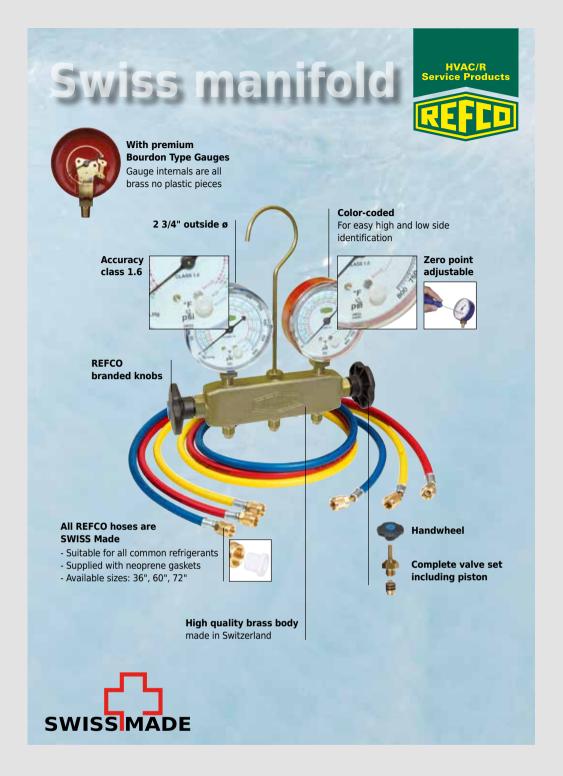
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| 14144 | 9881561 | 69 |
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| 14210 | 9881526 | 63 |
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| 14297-RF | 4677817 | 67 |
| 14297-RF-1 1/8" | 4669768 | 67 |
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| 2070-10 | 4671526 | 19 |
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| | 9881557 | 69 |
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| 3000-60 | 4670562 | 18 |
| 3000-60 | 4670562 | 19 |
| 3000-72 | 4672441 | 18 |
| 3000-72 | 4672441 | 19 |
| 3000-73 | 4674096 | 18 |
| 3000-73 | 4674096 | 19 |
| 3000-9-1 | 4671801 | 19 |
| 32515 | 9880894 | 70 |
| 32515-1/2"-20UNF (5/16" SAE) | 4660915 | 70 |
| 32520 | 9880893 | 70 |
| 32520-1/2"-20UNF (5/16" SAE) | 4660923 | 70 |
| 32520-1/2 -200NF (5/16" SAE) 32520-1/2"-20UNF (5/16" SAE)-555 | | 70 |
| 32520-1/2 -200NF (5/16 SAE)-555 | 9880892 | 70 |
| 02020-000 | 3000092 | 70 |

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| 400-15 | 4671011 | 19 | BS-10 | 9881638 | 64 |
| 525-F | 9881571 | 64 | BS-12 | 9881637 | 64 |
| A-31004/10 | 9883544 | 70 | BS-4 | 9881648 | 64 |
| A-31006/10 | 9884830 | 70 | BS-5 | 9881642 | 64 |
| A-31452-Y | 4665118 | 45 | BS-6 | 9881641 | 64 |
| A-32000 | 9880890 | 70 | BS-7 | 9881640 | 64 |
| A-33010 | 4681636 | 70 | BS-8 | 9881639 | 64 |
| A-33410 | 4681645 | 70 | CA-1/4"SAE-B | 4493525 | 49 |
| A-40513/10 | 9884813 | 51 | CA-1/4"SAE-R | 4493533 | 49 |
| AA-30 | 4674681 | 18 | CA-1/4"SAE-Y | 4493738 | 49 |
| AA-30 | 4674681 | 19 | CA-CCL-36 | 4493614 | 48 |
| AA-50 | 4674699 | 18 | CA-CCL-60 | 4493622 | 48 |
| AA-50 | 4674699 | 19 | CA-CCL-72 | 4493631 | 48 |
| ALF-032 | 4670414 | 18 | CA-CL-36-Y | 4492936 | 49 |
| ALF-032 | 4670414 | 19 | CA-CL-60-B | 4492944 | 49 |
| APEX-7-F-R12 | 4675377 | 33 | CA-CL-60-R | 4492952 | 49 |
| APEX-7-F-R12-CCL-60 | 4675416 | 33 | CA-CL-60-Y | 4492961 | 49 |
| APEX-7-F-R134a | 4675394 | 33 | CA-CL-72-B | 4492979 | 49 |
| APEX-7-F-R134a-CCL-60 | 4675432 | 33 | CA-CL-72-R | 4492987 | 49 |
| APEX-7-F-R22 | 4675386 | 33 | CA-CL-72-Y | 4492995 | 49 |
| APEX-7-F-R22-CCL-60 | 4675424 | 33 | CA-CL-9-B-M | 4682056 | 49 |
| APEX-7-F-R410A/R32-CCL-60 | 4687455 | 33 | CA-CL-9-R-M | 4682047 | 49 |
| APEX-7-F-R410A-FG | 4675407 | 33 | CA-CL-9-Y-M | 4682039 | 49 |
| APEX-7-F-R410A-FG-CA-CCL-60 | 4686280 | 33 | CCL-36 | 9881278 | 46 |
| APEX-7-F-R410A-FG-CCL-60 | 4675440 | 33 | CCL-36-CA | 4668559 | 48 |
| APEX-9-F-R12 | 4675458 | 33 | CCL-36-J2196 | 9884728 | 47 |
| APEX-9-F-R134a | 4675475 | 33 | CCL-48 | 9881277 | 46 |
| APEX-9-F-R22 | 4675466 | 33 | CCL-60 | 9881276 | 46 |
| APEX-9-F-R410A-FG | 4675483 | 33 | CCL-60-CA | 4668533 | 48 |
| BM2-3-F-Auto-Set-R134a-RC | 4506601 | 37 | CCL-60-J2196 | 9884729 | 47 |
| BM2-3-F-R22 | 4506562 | 34 | CCL-72 | 9881275 | 46 |
| BM2-3-F-R410A | 4505239 | 34 | CCL-72-J2196 | 9884730 | 47 |
| BM2-3-F-R410A-CCL-60 | 4505433 | 34 | | 9881253 | 46 |
| BM2-3-F-R410A-CCL-72 | 4506597 | 34 | CL-36-B-J2196 | 9884721 | 47 |
| BM2-6-F-R22 | 4506502 | 34 | CL-36-R | 9881262 | 46 |
| BM2-6-F-R22-CCL-60 | 4506520 | 34 | CL-36-R-J2196 | 9884720 | 47 |
| BM2-6-F-R22-CCL-72 | 4506554 | 34 | CL-36-Y | 9881271 | 46 |
| BM2-6-F-R410A | 4503261 | 34 | CL-36-Y-J2196 | 9884719 | 47 |
| BM2-6-F-R410A-CCL-60 | 4505710 | 34 | | 9881252 | 46 |
| BM2-6-F-R410A-CCL-72 | 4506589 | 34 | | 9881261 | 46 |
| BM2-6-F-R410A-FG-CA-CCL-60 | 4665305 | 34 | CL-48-Y | 9881270 | 46 |
| BM2-6-F-R410A-FG-CCL-60 | 4662526 | 34 | CL-60-B | 9881251 | 46 |
| BM2-8-F-R134a | 9884439 | 34 | CL-60-B-J2196 | 9884724 | 47 |
| BM2-8-F-R22 | 4506490 | 34 | CL-60-R | 9881260 | 46 |
| BM2-8-F-R410A | 4506571 | 34 | CL-60-R-J2196 | 9884723 | 47 |
| BM2-8-F-R410A-FG | 4662535 | 34 | CL-60-Y | 9881269 | 46 |
| BM4-3-F-R12 | 4506627 | 35 | | 9884722 | 47 |
| BM4-3-F-R22 | 4506643 | 35 | | 9881250 | 46 |
| BM4-3-F-R410A-FG | 4675326 | 35 | CL-72-B-J2196 | 9884727 | 47 |
| BM4-3-F-R410A-FG-CCL-60 | 4675335 | 35 | CL-72-R | 9881259 | 46 |
| BR-4IN1 | 4677621 | 63 | CL-72-R-J2196 | 9884726 | 47 |
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| CL-72-Y | 9881268 | 46 | GPK-35-02 | 4680087 | 58 | M2-3-DELUXE-F-R12-CCL-60 | 4505809 | 39 |
| CL-72-Y-J2196 | 9884725 | 47 | GPK-35-03 | 4680109 | 58 | M2-3-DELUXE-F-R134a-CCL-60 | 4506759 | 39 |
| CONTROL-KNOB | 4674478 | 18 | GPK-35-04 | 4680079 | 58 | M2-3-DELUXE-F-R22-CCL-60 | 4667510 | 39 |
| CPV-60-B | 9881235 | 50 | GPK-35-SIGHT-GLASS | 4680117 | 58 | M2-3-DELUXE-F-R410A-FG-CA-CCL-6 | 0 4663727 | 39 |
| CPV-60-R | 9881240 | 50 | GR-220-F-R12 | 7714013 | 24 | M2-3-DELUXE-F-R410A-FG-CCL-6 | 0 4662543 | 39 |
| CPV-60-Y | 9881230 | 50 | GR-220-F-R134a | 7714064 | 24 | M2-500-F-R12 | 7829567 | 23 |
| CPV-CCL-60 | 4495421 | 50 | GR-320-F-R12 | 7714098 | 24 | M2-500-F-R22 | 7635147 | 23 |
| CPV-DS | 4684512 | 50 | GR-320-F-R134a | 7714102 | 24 | M2-500-F-R410A | 7830000 | 23 |
| DIGIMON4-3-CLAMP-VAC | 4684591 | 31 | HCL6-60-Y | 9881313 | 51 | M2-500-F-R410A/R32 | 4687454 | 23 |
| DIGIMON-CLAMP | 4681466 | 30 | HY-EX-1 1/2" | 4687477 | 66 | M2-500-F-R410A-FG | 7218358 | 23 |
| DIGIMON-CLAMP | 4681466 | 59 | HY-EX-1 1/4" | 4687478 | 66 | M2-6-09-B+R | 4687080 | 44 |
| DIGIMON-SE-3 | 4686750 | 31 | HY-EX-1 1/8" | 4687370 | 66 | M2-7-SET-B+R | 4687079 | 44 |
| DIGIMON-SE-3-CLAMP | 4684589 | 31 | HY-EX-1 3/8" | 4687347 | 66 | M2-8-DELUXE-F-R12 | 4505817 | 39 |
| DIGIMON-SE-3-CLAMP-VAC | 4684590 | 31 | HY-EX-1 5/8" | 4687348 | 66 | M2-8-DELUXE-F-R22 | 4667498 | 39 |
| DIGIMON-SE-8 | 4686749 | 31 | HY-EX-1" | 4687345 | 66 | M2-8-DELUXE-F-R410A-FG | 4675491 | 39 |
| DIGIMON-SE-CASE | 4686730 | 30 | HY-EX-1/2" | 4687366 | 66 | M2-GS | 4677451 | 23 |
| DIGIMON-SENSOR-K-TYPE | 4681394 | 30 | HY-EX-1/4" | 4687344 | 66 | M2-GS | 4677451 | 35 |
| DIGIMON-VAC | 4686713 | 30 | HY-EX-3/4" | 4687368 | 66 | M2-GS | 4677451 | 45 |
| DT-150 | 9884365 | 59 | HY-EX-3/8" | 4687367 | 66 | M4-3-DELUXE-F-R12-CCL-60 | 4505477 | 40 |
| DV-44 | 4495340 | 15 | HY-EX-5/16" | 4687346 | 66 | M4-3-DELUXE-F-R410A-FG-CCL-6 | 0 4669997 | 40 |
| DV-45 | 4495358 | 15 | HY-EX-5/8" | 4687365 | 66 | M4-6-04-JUMBO | 4666726 | 45 |
| DV-46 | 4495366 | 15 | HY-EX-6 | 4687047 | 66 | M4-6-04-R/10 | 4662624 | 45 |
| ECO-3/5/9-1 | 4667757 | 15 | HY-EX-7/8" | 4687369 | 66 | M4-6-04-R/4 | 4687093 | 45 |
| ECO-3/5/9-3 | 4667774 | 15 | HY-OIL | 4687579 | 66 | M4-6-09-B | 4490976 | 44 |
| ECO-3/5/9-4 | 4667782 | 15 | INVERTER-CHECK-KIT | 4678571 | 71 | M4-6-09-N | 4490984 | 44 |
| ECO-3/5/9-5 | 4667790 | 15 | JUMBO-STAR-2-3-F-R12 | 4668109 | 42 | M4-6-09-Y | 4491000 | 44 |
| ECO-3/5/9-8 | 4667820 | 15 | JUMBO-STAR-2-3-F-R134a | 4668117 | 42 | M4-6-10 | 9882584 | 44 |
| ECO-3/5-20N | 4684580 | 15 | JUMBO-STAR-2-3-F-R410A-FG | 4686417 | 42 | M4-6-11 | 4491018 | 45 |
| ECO-3-10 | 4678946 | 15 | KKS-38 | 4667413 | 69 | M4-6-11-T | 4493169 | 45 |
| ECO-3-11 | 4678970 | 15 | KM2-001 | 4503350 | 22 | M4-6-15 | 4666106 | 45 |
| ECO-3-9 | 4678911 | 15 | KM2-250-F-R12 | 4530152 | 22 | M4-7-SET-B-N-R-Y | 4687094 | 44 |
| ECO-5 | 4667685 | 14 | KM2-250-F-R134a | 4530179 | 22 | M5-250-F-R410A-FG | 4675288 | 25 |
| ECO-5-10 | 4678954 | 15 | KM2-250-F-R22 | 4505417 | 22 | M5-500-F-R410A-FG | 4675296 | 25 |
| ECO-5-11 | 4678988 | 15 | KM2-500-F-R12 | 4530161 | 22 | MK-2-3-F-R12 | 4506848 | 41 |
| ECO-5-9 | 4678929 | 15 | KM2-500-F-R134a | 4530187 | 22 | MK-2-3-F-R134a | 4506856 | 41 |
| ECO-5-DV | 4682692 | 14 | KM2-500-F-R22 | 4505425 | 22 | NFT-118/10 | 9884961 | 70 |
| ECO-9 | 4669661 | 14 | LOCATOR-FILTER/5 | 4686821 | 52 | NFT5-4/10 | 9884244 | 70 |
| ECO-9-10 | 4678962 | 15 | LOCATOR-FILTER/5 | 4686821 | 53 | NFT5-4-K-Green | 4676110 | 15 |
| ECO-9-11 | 4678996 | 15 | LOCATOR-LED-UV/6 | 4687034 | 52 | NFT5-6-K-Green | 4676128 | 15 |
| ECO-9-20 | 4684604 | 15 | LOCATOR-LED-UV/6 | 4687034 | 53 | OCTA-WIRELESS | 4686663 | 56 |
| ECO-9-20 | | | LOCATOR-LED-WHITE/6 | 4686828 | | OCTA-WIRELESS OCTA-WIRELESS-CONTROL-BOX | | 56 |
| ENVIRO | 4678937 4684593 | 15 16 | LOCATOR-LED-WHITE/6 | 4686828 | 52 53 | OCTA-WIRELESS-KIT | 4686752 4686742 | 56 |
| ENVIRO-DUO | 4684605 | | LP-88 | | | OZ-4000 | | |
| ES-02 | | 17 | | 4686697 | 59 | P-509/10 | 4663247 | 19 |
| | 4507577 | 54 | M2-001 | 1212648 | 23 | | 9880872 | 47 |
| ES-C | 4660672 | 55 | M2-10-95-R/2 | 4687104 | 44 | P-509-T/10 | 9880871 | 47 |
| GM2-6-F-R12-CCL-60 | 4507100 | 36 | M2-10-95-R/4 | 4687105 | 44 | P-510/10 | 9880870 | 51 |
| GM2-6-F-R134a-CCL-60 | 4507118 | 36 | M2-250-F-R12 | 7829168 | 23 | P-513/10 | 9880869 | 47 |
| GM2-8-F-R12 | 4507061 | 36 | M2-250-F-R22 | 7635083 | 23 | POWERMAX | 4663239 | 18 |
| GM2-8-F-R134a | 4507071 | 36 | M2-250-F-R410A | 7829982 | 23 | QC-S410A/2 | 4687095 | 47 |
| GPK-35 | 4683477 | 58 | M2-250-F-R410A/R32 | 4687453 | 23 | R3-220-F-R12 | 9884479 | 26 |
| GPK-35-01 | 4680096 | 58 | M2-250-F-R410A-FG | 7218188 | 23 | R3-220-F-R134a | 9884481 | 26 |

| 日本日本日本日本日本 | Designation | Part No. | Pg | Designation | Part No. | Pg |
|--|---------------------|----------|----|-------------------------|----------|----|
| R3-320-FH12 9884480 26 RIL-4/2A 4661604 13 R3-320-FH304 9894482 26 RIL-4-2A 4661604 13 R3-320-FH22 4667490 26 RIL-4-3000 4507674 13 R3-320-FH12 4403916 27 RIL-4-4000 4601474 13 R5-220-FH12 4403916 27 RIL-4-40 4668036 13 R5-320-FH12 4403926 27 RIL-4-04 4668036 13 R5-320-FH12A 4403926 27 RIL-4-04 4668036 13 R5-320-FR140AFG 4875318 27 RIL-8 4507656 13 R600-B 9884949 37 RIS-92A 4507665 13 R600-B 9884948 37 RIS-8000 4507607 13 R6F-LOCATOR 4686707 52 RIS-3011 4507607 13 R6F-LOCATOR-CASE 4686707 52 RIS-3000 4507640 13 R6F-MCTER-OCTA 4697607 < | R3-220-F-R22 | 4667472 | 26 | RL-2-64 | 4668028 | 13 |
| R3-320-F-R104a 9884482 26 RL-4-2A 4681954 13 R3-320-F-R22 4667490 26 RL-4-3001 4507674 13 R3-320-F-R10A-FG 4662403 26 RL-4-3011 4607682 13 R5-220-F-R12 4483916 27 RL-4-400 4650501 13 R5-320-F-R12 4483924 27 RL-4-64 466006 13 R5-320-F-R10A-FG 4675301 27 RL-8-64 466006 13 R5-320-F-R10A-FG 4675318 27 RL-8-64 466006 12 R601-B 9884949 37 RL-9-2A 4507658 12 R601-B 9884949 37 RL-9-300 4507655 13 R6F-LOCATOR 4686714 52 RL-8-303 4507645 13 R6F-LOCATOR 4686712 52 RL-8-3000 4507600 13 R6F-LOCATOR 4686712 52 RL-8-3000 4507600 13 R6F-METER-OCTA 4679462 | R3-220-F-R410A-FG | 4662399 | 26 | RL-4/8-310 | 4496761 | 13 |
| R3-320-F-R22 | R3-320-F-R12 | 9884480 | 26 | RL-4/8-65 | 4668053 | 13 |
| R3-320-F-R410A-FG | R3-320-F-R134a | 9884482 | 26 | RL-4-2A | 4661954 | 13 |
| R3-320-FR410A-FG 4682403 26 RI-4-3011 4507682 13 R6-220-FR12 4493916 27 RI-4-4000 4661474 13 R6-220-FR12 4493916 27 RI-4-406 4505055 12 R6-320-FR12 4493924 27 RI-4-64 4680306 13 R6-320-FR140A-FG 4675318 27 RI-8-3000 4507668 12 RC01-B 9884949 37 RI-8-3000 4507607 13 REF-CLOATOR 4686714 52 RI-8-3011 4507615 13 REF-LOCATOR 4686707 52 RI-8-3060 4507635 13 REF-LOCATOR-CASE 4686707 52 RI-8-3060 4507645 13 REF-LOCATOR-TV-01 4686707 52 RI-8-4001 4507640 13 REF-METER-COTA 4679625 52 RI-8-4071 4507631 13 REF-METER-COTA 4681983 67 RI-8-4071 4507631 13 REF-METER-COTA-CONTROL-B | R3-320-F-R22 | 4667480 | 26 | RL-4-3000 | 4507674 | 13 |
| Page | | | | | | |
| R5-220-F-R410A-FG | | | | | | |
| R5-320-F-R12 | | | | | | |
| RE-320-F-R410A-FQ | | | | | | |
| RC01-B 9884949 37 RL-8-2A 4507658 13 RC01-R 9884948 37 RL-8-3000 4507607 13 REF-LCASS-GAUGE 4682233 43 RL-8-3011 4507615 13 REF-LCOATOR 4686714 52 RL-8-303 4507445 13 REF-LCOATOR-CASE 4686707 52 RL-8-3000 4507640 13 REF-LCOATOR-TV-01 4686705 52 RL-8-4000 4507640 13 REF-METER-OCTA 4679462 57 RL-8-4071 4507631 13 REF-METER-OCTA-CONTROL-BOX 4686813 57 RL-8-426 4508203 13 REF-METER-OCTA-KIT 4681989 57 RL-8-426 4508203 13 REF-METER-OCTA-FULS 4681823 56 RS-001/3 4687097 62 REF-SCOPE-CLEAN 4683524 51 RS-25 4682722 62 REF-SCOPE-HOCK 4685316 51 RS-25 4682720 62 REF-SCOPE-HOCK 4685516 51 RS-25 4682730 62 REF-SCOPE-HOCK 4685541 51 RS-42 4682756 62 REF-SCOPE-MAGNET 4680524 51 | | | | | | |
| RICHER 9884948 37 RIL-8-3000 4507607 13 REF-CLASS-GAUGE 468293 43 RIL-8-3011 4507615 13 REF-LOCATOR 4686714 52 RIL-8-303 4507461 13 REF-LOCATOR-CASE 4686707 52 RIL-8-3060 4507623 13 REF-LOCATOR-CASE 4686705 52 RIL-8-4000 4507623 13 REF-METER-OCTA 4678462 57 RIL-8-4071 4507631 13 REF-METER-OCTA-CONTROL-BOX 4668813 57 RIL-8-428 4668045 13 REF-METER-OCTA-CONTROL-BOX 4686813 57 RIL-8-428 4668045 13 REF-METER-OCTA-PLUS 4681823 56 RS-001/3 4687097 62 REF-SCOPE 4679705 60 RS-16 4682722 62 REF-SCOPE-CLEAN 4683524 61 RS-25 4682730 62 REF-SCOPE-HOCK 4683524 61 RS-25 4682730 62 REF-SCOPE-MAGNET 4683524 61 RS-42 4682766 62 REF-SCOPE-MAGNET 4683524 61 RS-42 4682766 62 REF-SCOPE-MAGNET 4683524 61 RS-42 4682766 62 REF-SCOPE-MAGNET 4683524 61 RS-47 4686904 62 REF-SCOPE-MAGNET 4683527 61 RS-47 4686904 62 RS-47 468690 | | | | | | |
| REF-CLASS-GAUGE 4682293 43 RL-8-3011 4507615 13 REF-LOCATOR 4686714 52 RL-8-303 4507445 13 REF-LOCATOR-CASE 4686707 52 RL-8-3060 4507623 13 REF-LOCATOR-TV-01 4686705 52 RL-8-4000 4507631 13 REF-METER-OCTA-CONTROL-BOX 4686813 57 RL-8-4071 4507631 13 REF-METER-OCTA-KIT 4681823 56 RL-8-426 4508203 13 REF-METER-OCTA-PLUS 4681823 56 RS-001/3 4687097 62 REF-SCOPE 4679705 60 RS-16 4682720 62 REF-SCOPE-MCK 4683532 61 RS-25 4682730 62 REF-SCOPE-MGNET 4683524 61 RS-67 4689704 62 REF-SCOPE-MGROR 4683507 61 RS-67 4689704 62 REF-SCOPE-MGROR 4683507 61 RS-67 4689704 62 REF-SCOPE | | | | | | |
| REF-LOCATOR 4686714 52 RL-8-303 4507455 13 REF-LOCATOR-CASE 4686707 52 RL-8-3060 4507623 13 REF-LOCATOR-TV-01 4686705 52 RL-8-4000 4507640 13 REF-METER-OCTA 4679462 57 RL-8-4001 4507631 13 REF-METER-OCTA-KITI 4681989 57 RL-8-426 4508203 13 REF-METER-OCTA-PLUS 4681989 57 RL-8-64 4680705 62 REF-SCOPE 4679705 60 RS-16 4682702 62 REF-SCOPE-LEAN 4683532 61 RS-25 4682703 62 REF-SCOPE-MAGNET 4683524 61 RS-42 4682766 62 REF-VAC 4686712 29 MR-3-F-R410A-FG-CCL-60 4675393 38 REF-175-FS 981575 64 SM-2-F-R410A-FG-CCL-60 4675343 38 RF-275-FS 981667 69 SM-2-F-R410A-FG-CCL-60 4675343 38 | | | | | | |
| REF-LOCATOR-CASE 4686707 52 RL-8-3060 4507623 13 REF-LOCATOR-TV-01 4686705 52 RL-8-4000 4507640 13 REF-METER-OCTA 4679462 57 RL-8-4071 4507631 13 REF-METER-OCTA-CONTROL-BOX 4680813 57 RL-8-46 4508203 13 REF-METER-OCTA-PLUS 4681983 56 RS-001/3 4687097 62 REF-SCOPE 4679705 60 RS-16 4682722 62 REF-SCOPE-CLEAN 4683522 61 RS-25 4682730 62 REF-SCOPE-HOOK 4683524 61 RS-35 4682748 62 REF-SCOPE-MAGNET 4683524 61 RS-42 4682756 62 REF-YAC 4986712 29 SM2-3-F-R410A-FG-CCL-60 4675391 38 RF-175-FS 4506198 64 SM2-8-F-R410A-FG-CCL-60 4675351 38 RF-275-FS 9881575 64 STATTEK-C 4666543 38 | | | | | | |
| REF-LOCATOR-TV-01 4686705 52 RL-8-4000 4507640 13 REF-METER-OCTA 4679462 57 RL-8-4071 4507631 13 REF-METER-OCTA-CONTROL-BOX 4686183 57 RL-8-426 4508203 13 REF-METER-OCTA-KIT 4681989 57 RL-8-64 4668045 13 REF-METER-OCTA-PLUS 4881823 56 RS-001/3 4887097 62 REF-SCOPE 4679705 60 RS-16 4682722 62 REF-SCOPE-LEAN 4683518 61 RS-25 4682730 62 REF-SCOPE-MAGNET 4683518 61 RS-35 4682748 62 REF-SCOPE-MIRROR 4883524 61 RS-67 4682756 62 REF-SCOPE-MIRROR 4883507 61 RS-67 4682748 62 REF-SCOPE-MIRROR 4686712 29 SM2-3-F-R410A-FG-CCL-60 4675369 38 RF-175-FS 4506193 64 SM2-8-F-R410A-FG-CCL-60 4675343 38 | | | | | | |
| REF-METER-OCTA 4679462 57 RL-8-4071 4507631 13 REF-METER-OCTA-CONTROL-BOX 4686813 57 RL-8-426 4508203 13 REF-METER-OCTA-KIT 4681883 57 RL-8-64 4668045 13 REF-SCOPE 4679705 60 RS-16 4682722 62 REF-SCOPE-CLEAN 4683516 61 RS-25 4682730 62 REF-SCOPE-HOOK 4683516 61 RS-35 4682748 62 REF-SCOPE-MIRROR 4683524 61 RS-42 4682756 62 REF-SCOPE-MIRROR 4683524 61 RS-67 4686904 62 REF-SCOPE-MIRROR 4683524 61 RS-67 4686904 62 REF-SCOPE-MIRROR 4685712 29 SM2-9-F-R410A-FG-CCL-60 4675351 38 REF-SCOPE-MIRROR 4686712 29 SM2-9-F-R410A-FG-CCL-60 4675351 38 RF-175-FS 981575 64 SM2-9-F-R410A-FG-CCL-60 4675351 38 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | |
| REF-METER-OCTA-CONTROL-BOX 4686813 57 RL-8-426 4508203 13 REF-METER-OCTA-KIT 4681989 57 RL-8-64 4668045 13 REF-METER-OCTA-PLUS 4681823 56 RS-001/3 4687097 62 REF-SCOPE 4679705 60 RS-16 4682722 62 REF-SCOPE-LCAN 4683532 61 RS-25 4682730 62 REF-SCOPE-HOOK 4683516 61 RS-35 4682748 62 REF-SCOPE-MAGNET 4683524 61 RS-42 4682766 62 REF-VAC 4686712 29 SM2-3-F-R410A-FG-CCL-60 4675369 38 RF-175-FS 4506198 64 SM2-8-F-R410A-FG-CCL-60 4675313 38 RF-275-FS 9881575 64 STARTEK-C 466664 55 RFA-124-C 9881467 69 STARTEK-C-ASE 4664333 54 RFA-127-OFFSET 4506201 69 SVOM-18 4660500 70 RFA-209-01/3 | | | | | | |
| REF-METER-OCTA-KIT 4681989 57 RL-8-64 4668045 13 REF-METER-OCTA-PLUS 4681823 56 RS-001/3 4687097 62 REF-SCOPE 4679705 60 RS-16 4682722 62 REF-SCOPE-LEAN 4683532 61 RS-25 4682730 62 REF-SCOPE-HOOK 4683516 61 RS-35 4682748 62 REF-SCOPE-MAGNET 4683524 61 RS-42 4682756 62 REF-VAC 4683507 61 RS-67 4686904 62 REF-VAC 4686712 29 SM2-3-F-R410A-FG-CCL-60 4675369 38 RF-175-FS 4506198 64 SM2-8-F-R410A-FG 4675343 38 RF-275-FS 9881575 64 SM2-8-F-R410A-FG 4675343 38 RF-2124-C 9881467 69 STARTEK 4507917 54 RFA-127-C 9881467 69 STARTEK-CASE 4666593 55 RFA-209 9881 | | | | | | |
| REF-METER-OCTA-PLUS 4681823 56 RS-001/3 4687097 62 REF-SCOPE 4679705 60 RS-16 4682722 62 REF-SCOPE-CLEAN 4683532 61 RS-25 4682730 62 REF-SCOPE-HOOK 4683516 61 RS-35 4682748 62 REF-SCOPE-MAGNET 4683524 61 RS-42 4682756 62 REF-SCOPE-MIRROR 4683507 61 RS-67 4686904 62 REF-VAC 4686712 29 SM2-3-F-R410A-FG-CCL-60 4675369 38 RF-175-FS 4506198 64 SM2-8-F-R410A-FG 4675343 38 RF-275-FS 9881575 64 SM2-8-F-R410A-FG 4675343 38 RF-276-FS 9881628 63 STARTEK-C 4606064 55 RFA-124-C 9881467 69 STARTEK-CASE 4664333 54 RFA-127-OFFSET 4506201 69 SVOM-18 46605593 55 RFA-209 | | 4686813 | 57 | | | |
| REF-SCOPE 4679705 60 RS-16 4682722 62 REF-SCOPE-CLEAN 4683532 61 RS-25 4682730 62 REF-SCOPE-HOOK 4683516 61 RS-35 4682748 62 REF-SCOPE-MAGNET 4683524 61 RS-42 4682756 62 REF-SCOPE-MIRROR 4683507 61 RS-67 4686904 62 REF-VAC 4686712 29 SM2-3-F-R410A-FG-CCL-60 4675369 38 RF-175-FS 4506198 64 SM2-6-F-R410A-FG-CCL-60 4675351 38 RF-275-FS 9881575 64 SM2-8-F-R410A-FG 4675343 38 RF-275-FS 9881528 63 STARTEK 4507917 54 RFA-124-C 9881467 69 STARTEK-C 4680664 55 RFA-127-OFFSET 4506201 69 SVOM-18 4660507 70 RFA-209 9881649 63 SWIVEL-ARM-1/4*SAE-N 4687631 29 RFA-209-01/3 | REF-METER-OCTA-KIT | 4681989 | 57 | RL-8-64 | 4668045 | 13 |
| REF-SCOPE-CLEAN 4683532 61 RS-25 4682730 62 REF-SCOPE-HOOK 4683516 61 RS-35 4682748 62 REF-SCOPE-MAGNET 4683524 61 RS-42 4682756 62 REF-SCOPE-MIRROR 4683507 61 RS-67 4686904 62 REF-VAC 4686712 29 SM2-3-F-R410A-FG-CCL-60 4675369 38 RF-175-FS 4506198 64 SM2-6-F-R410A-FG-CCL-60 4675351 38 RF-275-FS 9881575 64 SM2-8-F-R410A-FG 4675343 38 RF-888-Z 4506171 64 STARTEK 4507917 54 RFA-105-FF 9881528 63 STARTEK-C 4660664 55 RFA-124-C 9881467 69 STARTEK-CASE 4664333 54 RFA-127-OFFSET 4506201 69 SVOM-18 4660507 70 RFA-209 9881649 63 SWIVEL-ARM-1/4"SAE-N 4687631 29 RFA-209-01/3 | REF-METER-OCTA-PLUS | 4681823 | 56 | RS-001/3 | 4687097 | 62 |
| REF-SCOPE-HOOK 4683516 61 RS-35 4682748 62 REF-SCOPE-MAGNET 4683524 61 RS-42 4682756 62 REF-SCOPE-MIRROR 4683507 61 RS-67 4686904 62 REF-VAC 4686712 29 SM2-3-F-R410A-FG-CCL-60 4675369 38 RF-175-FS 4506198 64 SM2-6-F-R410A-FG 4675343 38 RF-275-FS 9881575 64 SM2-8-F-R410A-FG 4675343 38 RF-888-Z 4506171 64 STARTEK 4507917 54 RFA-105-FF 9881528 63 STARTEK-C 4660664 55 RFA-124-C 9881467 69 STARTEK-CASE 4664333 54 RFA-127-OFFSET 4506201 69 SVOM-18 4660507 70 RFA-209 9881649 63 SWIVEL-ARM-1/4*SAE-N 4687631 29 RFA-209-01/3 4687065 62 T21000 9881609 68 RFA-209-STYLO-HD | REF-SCOPE | 4679705 | 60 | RS-16 | 4682722 | 62 |
| REF-SCOPE-MAGNET 4683524 61 RS-42 4682756 62 REF-SCOPE-MIRROR 4683507 61 RS-67 4686904 62 REF-VAC 4686712 29 SM2-3-F-R410A-FG-CCL-60 4675369 38 RF-175-FS 4506198 64 SM2-6-F-R410A-FG 4675351 38 RF-275-FS 9881575 64 SM2-8-F-R410A-FG 4675343 38 RF-888-Z 4506171 64 STARTEK 4507917 54 RFA-105-FF 9881528 63 STARTEK-C 4660664 55 RFA-124-C 9881467 69 STARTEK-C-CASE 466333 54 RFA-127-OFFSET 4506201 69 SVOM-18 4660507 70 RFA-209 9881649 63 SWIVEL-ARM-1/4*SAE-N 4687631 29 RFA-209-01/3 4687065 62 T21000 9881620 68 RFA-209-STYLO 9883750 63 T21002 9881612 68 RFA-364-FH-10 | REF-SCOPE-CLEAN | 4683532 | 61 | RS-25 | 4682730 | 62 |
| REF-SCOPE-MIRROR 4683507 61 RS-67 4686904 62 REF-VAC 4686712 29 SM2-3-F-R410A-FG-CCL-60 4675369 38 RF-175-FS 4506198 64 SM2-6-F-R410A-FG-CCL-60 4675351 38 RF-275-FS 9881575 64 SM2-8-F-R410A-FG 4675343 38 RF-888-Z 4506171 64 STARTEK 4507917 54 RFA-105-FF 9881528 63 STARTEK-C 4660664 55 RFA-124-C 9881467 69 STARTEK-C-CASE 4665333 54 RFA-127-OFFSET 4506201 69 SVOM-18 4660507 70 RFA-209 9881649 63 SWIVEL-ARM-1/4*SAE-N 4687631 29 RFA-209-01/3 4687065 62 T21000 9881609 68 RFA-209-STYLO 9883750 63 T21002 9881612 68 RFA-364-FH-10 9881667 65 T21004 9881616 68 RFA-368-FH <td>REF-SCOPE-HOOK</td> <td>4683516</td> <td>61</td> <td>RS-35</td> <td>4682748</td> <td>62</td> | REF-SCOPE-HOOK | 4683516 | 61 | RS-35 | 4682748 | 62 |
| REF-VAC 4686712 29 SM2-3-F-R410A-FG-CCL-60 4675369 38 RF-175-FS 4506198 64 SM2-6-F-R410A-FG 4675351 38 RF-275-FS 9881575 64 SM2-8-F-R410A-FG 4675343 38 RF-888-Z 4506171 64 STARTEK 4507917 54 RFA-105-FF 9881528 63 STARTEK-C 4660664 55 RFA-124-C 9881467 69 STARTEK-CASE 466333 54 RFA-127-C 9881466 69 STARTEK-C-CASE 4665593 55 RFA-209 9881649 63 SWIVEL-ARM-1/4"SAE-N 4687631 29 RFA-209 9881649 63 SWIVEL-ARM-1/4"SAE-N 4687631 29 RFA-209-01/3 4687065 62 T21000 9881609 68 RFA-209-STYLO 9883760 63 T21002 9881619 68 RFA-209-STYLO-HD 4687051 63 T21004 9881616 68 RFA-364-FH-10 | REF-SCOPE-MAGNET | 4683524 | 61 | RS-42 | 4682756 | 62 |
| RF-175-FS 4506198 64 SM2-6-F-R410A-FG-CCL-60 4675351 38 RF-275-FS 9881575 64 SM2-8-F-R410A-FG 4675343 38 RF-888-Z 4506171 64 STARTEK 4507917 54 RFA-105-FF 9881528 63 STARTEK-C 4660664 55 RFA-124-C 9881467 69 STARTEK-CASE 4664333 54 RFA-127-C 9881466 69 STARTEK-C-CASE 4665593 55 RFA-209 9881649 63 SWIVEL-ARM-1/4"SAE-N 4687631 29 RFA-209 9881649 63 SWIVEL-ARM-1/4"SAE-N 4687631 29 RFA-209-01/3 4687065 62 T21000 9881620 68 RFA-209-STYLO 9883750 63 T21002 9881619 68 RFA-209-STYLO-HD 4687051 63 T21004 9881618 68 RFA-364-FH-10 9881666 65 T21005 9881616 68 RFA-368-FH | REF-SCOPE-MIRROR | 4683507 | 61 | RS-67 | 4686904 | 62 |
| RF-275-FS 9881575 64 SM2-8-F-R410A-FG 4675343 38 RF-888-Z 4506171 64 STARTEK 4507917 54 RFA-105-FF 9881528 63 STARTEK-C 4660664 55 RFA-124-C 9881467 69 STARTEK-CASE 4664333 54 RFA-127-C 9881466 69 STARTEK-C-CASE 4665593 55 RFA-127-OFFSET 4506201 69 SVOM-18 4660507 70 RFA-209 9881649 63 SWIVEL-ARM-1/4"SAE-N 4687631 29 RFA-209-01/3 4687065 62 T21000 9881609 68 RFA-209-STYLO 9883750 63 T21002 9881619 68 RFA-209-STYLO-HD 4687051 63 T21004 9881618 68 RFA-364-FH-10 9881667 65 T21005 9881616 68 RFA-368-FH 9881657 65 T21007 9881615 68 RF-368-FH 9881661 <td>REF-VAC</td> <td>4686712</td> <td>29</td> <td>SM2-3-F-R410A-FG-CCL-60</td> <td>4675369</td> <td>38</td> | REF-VAC | 4686712 | 29 | SM2-3-F-R410A-FG-CCL-60 | 4675369 | 38 |
| RF-888-Z 4506171 64 STARTEK 4507917 54 RFA-105-FF 9881528 63 STARTEK-C 4660664 55 RFA-124-C 9881467 69 STARTEK-CASE 4664333 54 RFA-127-C 9881466 69 STARTEK-C-CASE 4665593 55 RFA-127-OFFSET 4506201 69 SVOM-18 4660507 70 RFA-209 9881649 63 SWIVEL-ARM-1/4"SAE-N 4687631 29 RFA-209-01/3 4687065 62 T21000 9881609 68 RFA-209-STYLO 9883750 63 T21002 9881619 68 RFA-209-STYLO-HD 4687051 63 T21004 9881618 68 RFA-364-FH-08 9881667 65 T21005 9881617 68 RFA-364-FH-10 9881666 65 T21006 9881616 68 RFA-368-FH 9881657 65 T21008 9881614 68 RL-2/4/8-415 4496770 | RF-175-FS | 4506198 | 64 | SM2-6-F-R410A-FG-CCL-60 | 4675351 | 38 |
| RFA-105-FF 9881528 63 STARTEK-C 4660664 55 RFA-124-C 9881467 69 STARTEK-CASE 4664333 54 RFA-127-C 9881466 69 STARTEK-C-CASE 4665593 55 RFA-127-OFFSET 4506201 69 SVOM-18 4660507 70 RFA-209 9881649 63 SWIVEL-ARM-1/4*SAE-N 4687631 29 RFA-209-01/3 4687065 62 T21000 9881609 68 RFA-209-STYLO 9883750 63 T21002 9881619 68 RFA-209-STYLO-HD 4687051 63 T21004 9881618 68 RFA-364-FH-08 9881667 65 T21005 9881617 68 RFA-364-FH-10 9881666 65 T21006 9881615 68 RFA-368-FH 9881657 65 T21008 9881614 68 RL-2/4/8-415 4496770 13 T21012 9881612 68 RL-2/4-303 4495471 | RF-275-FS | 9881575 | 64 | SM2-8-F-R410A-FG | 4675343 | 38 |
| RFA-124-C 9881467 69 STARTEK-CASE 4664333 54 RFA-127-C 9881466 69 STARTEK-C-CASE 4665593 55 RFA-127-OFFSET 4506201 69 SVOM-18 4660507 70 RFA-209 9881649 63 SWIVEL-ARM-1/4"SAE-N 4687631 29 RFA-209-01/3 4687065 62 T21000 9881609 68 RFA-209-STYLO 9883750 63 T21002 9881619 68 RFA-209-STYLO-HD 4687051 63 T21004 9881618 68 RFA-364-FH-08 9881667 65 T21005 9881617 68 RFA-364-FH-10 9881666 65 T21006 9881616 68 RFA-364-FH-12 9881665 65 T21007 9881615 68 RFA-368-FH 9881657 65 T21008 9881614 68 RL-2/4/8-415 4496770 13 T21012 9881612 68 RL-2/4-303 4495471 | RF-888-Z | 4506171 | 64 | STARTEK | 4507917 | 54 |
| RFA-127-C 9881466 69 STARTEK-C-CASE 4665593 55 RFA-127-OFFSET 4506201 69 SVOM-18 4660507 70 RFA-209 9881649 63 SWIVEL-ARM-1/4"SAE-N 4687631 29 RFA-209-01/3 4687065 62 T21000 9881609 68 RFA-209-STYLO 9883750 63 T21002 9881620 68 RFA-209-STYLO-HD 4687051 63 T21003 9881619 68 RFA-364-FH-08 9881667 65 T21004 9881618 68 RFA-364-FH-10 9881666 65 T21005 9881617 68 RFA-364-FH-12 9881665 65 T21007 9881615 68 RFA-368-FH 9881657 65 T21008 9881614 68 RL-2/4/8-415 4496770 13 T21012 9881612 68 RL-2/4-303 4495471 13 T21014 9881610 68 RL-2/4-3060 4661423 | RFA-105-FF | 9881528 | 63 | STARTEK-C | 4660664 | 55 |
| RFA-127-OFFSET 4506201 69 SVOM-18 4660507 70 RFA-209 9881649 63 SWIVEL-ARM-1/4*SAE-N 4687631 29 RFA-209-01/3 4687065 62 T21000 9881609 68 RFA-209-01/3 4687065 63 T21002 9881620 68 RFA-209-STYLO 9883750 63 T21003 9881619 68 RFA-209-STYLO-HD 4687051 63 T21004 9881618 68 RFA-364-FH-08 9881667 65 T21005 9881617 68 RFA-364-FH-10 9881666 65 T21006 9881616 68 RFA-364-FH-12 9881665 65 T21007 9881615 68 RFA-368-FH 9881657 65 T21008 9881614 68 RL-2/4/8-415 4496770 13 T21012 9881612 68 RL-2/4-3030 4495471 13 T21014 9881610 68 RL-2-2A 4661423 | RFA-124-C | 9881467 | 69 | STARTEK-CASE | 4664333 | 54 |
| RFA-209 9881649 63 SWIVEL-ARM-1/4"SAE-N 4687631 29 RFA-209-01/3 4687065 62 T21000 9881609 68 RFA-209-01/3 4687065 63 T21002 9881620 68 RFA-209-STYLO 9883750 63 T21003 9881619 68 RFA-209-STYLO-HD 4687051 63 T21004 9881618 68 RFA-364-FH-08 9881667 65 T21005 9881617 68 RFA-364-FH-10 9881666 65 T21006 9881616 68 RFA-364-FH-12 9881665 65 T21007 9881615 68 RFA-368-FH 9881657 65 T21008 9881614 68 RL-2 4661601 12 T21010 9881613 68 RL-2/4/8-415 4496770 13 T21012 9881611 68 RL-2/4-303 4495471 13 T21014 9881610 68 RL-2/4-3060 4661423 13 T21018 9881608 68 RL-2-3000 4661589 | RFA-127-C | 9881466 | 69 | STARTEK-C-CASE | 4665593 | 55 |
| RFA-209-01/3 4687065 62 T21000 9881609 68 RFA-209-01/3 4687065 63 T21002 9881620 68 RFA-209-STYLO 9883750 63 T21003 9881619 68 RFA-209-STYLO-HD 4687051 63 T21004 9881618 68 RFA-364-FH-08 9881667 65 T21005 9881617 68 RFA-364-FH-10 9881666 65 T21006 9881616 68 RFA-364-FH-12 9881665 65 T21007 9881615 68 RFA-368-FH 9881657 65 T21008 9881614 68 RL-2 4661601 12 T21010 9881613 68 RL-2/4/8-415 4496770 13 T21012 9881612 68 RL-2/4-303 4495471 13 T21014 9881610 68 RL-2/4-3060 4661423 13 T2100 9881608 68 RL-2-3000 4661589 13 T6-4/5 4687141 29 RL-2-3011 4661597 13 | RFA-127-OFFSET | 4506201 | 69 | SVOM-18 | 4660507 | 70 |
| RFA-209-01/3 4687065 63 T21002 9881620 68 RFA-209-STYLO 9883750 63 T21003 9881619 68 RFA-209-STYLO-HD 4687051 63 T21004 9881618 68 RFA-364-FH-08 9881667 65 T21005 9881617 68 RFA-364-FH-10 9881666 65 T21006 9881616 68 RFA-364-FH-12 9881665 65 T21007 9881615 68 RFA-364-FH 9881657 65 T21008 9881614 68 RL-2 4661601 12 T21010 9881613 68 RL-2/4/8-415 4496770 13 T21012 9881612 68 RL-2/4-303 4495471 13 T21014 9881611 68 RL-2/4-3060 4661423 13 T21018 9881610 68 RL-2-2A 4661689 13 T6-4/5 4667141 29 RL-2-3011 4661597 13 TELL-7-AD 4669679 65 | RFA-209 | 9881649 | 63 | SWIVEL-ARM-1/4"SAE-N | 4687631 | 29 |
| RFA-209-STYLO 9883750 63 T21003 9881619 68 RFA-209-STYLO-HD 4687051 63 T21004 9881618 68 RFA-364-FH-08 9881667 65 T21005 9881617 68 RFA-364-FH-10 9881666 65 T21006 9881616 68 RFA-364-FH-12 9881665 65 T21007 9881615 68 RFA-368-FH 9881657 65 T21008 9881614 68 RL-2 4661601 12 T21010 9881613 68 RL-2/4/8-415 4496770 13 T21012 9881612 68 RL-2/4-303 4495471 13 T21014 9881611 68 RL-2/4-3060 4661423 13 T21018 9881608 68 RL-2-2A 4661482 13 T21100 9881608 68 RL-2-3000 4661589 13 T6-4/5 4687141 29 RL-2-3011 4661597 13 TELL-7 4666076 65 RL-2-4000 4661538 13 TE | RFA-209-01/3 | 4687065 | 62 | T21000 | 9881609 | 68 |
| RFA-209-STYLO-HD 4687051 63 T21004 9881618 68 RFA-364-FH-08 9881667 65 T21005 9881617 68 RFA-364-FH-10 9881666 65 T21006 9881616 68 RFA-364-FH-12 9881665 65 T21007 9881615 68 RFA-368-FH 9881657 65 T21008 9881614 68 RL-2 4661601 12 T21010 9881613 68 RL-2/4/8-415 4496770 13 T21012 9881612 68 RL-2/4-303 4495471 13 T21014 9881611 68 RL-2/4-3060 4661423 13 T21018 9881601 68 RL-2-2A 4661482 13 T21100 9881608 68 RL-2-3000 4661589 13 T6-4/5 4687141 29 RL-2-3011 4661597 13 TELL-7 4666076 65 RL-2-4000 4661538 13 TELL-7-AD 4669679 65 | RFA-209-01/3 | 4687065 | 63 | T21002 | 9881620 | 68 |
| RFA-364-FH-08 9881667 65 T21005 9881617 68 RFA-364-FH-10 9881666 65 T21006 9881616 68 RFA-364-FH-12 9881665 65 T21007 9881615 68 RFA-368-FH 9881657 65 T21008 9881614 68 RL-2 4661601 12 T21010 9881613 68 RL-2/4/8-415 4496770 13 T21012 9881612 68 RL-2/4-303 4495471 13 T21014 9881611 68 RL-2/4-3060 4661423 13 T21018 9881610 68 RL-2-2A 4661482 13 T2100 9881608 68 RL-2-3000 4661589 13 T6-4/5 4667141 29 RL-2-3011 4661597 13 TELL-7 4666076 65 RL-2-4000 4661538 13 TELL-7-AD 4669679 65 | RFA-209-STYLO | 9883750 | 63 | T21003 | 9881619 | 68 |
| RFA-364-FH-10 9881666 65 T21006 9881616 68 RFA-364-FH-12 9881665 65 T21007 9881615 68 RFA-368-FH 9881657 65 T21008 9881614 68 RL-2 4661601 12 T21010 9881613 68 RL-2/4/8-415 4496770 13 T21012 9881612 68 RL-2/4-303 4495471 13 T21014 9881611 68 RL-2/4-3060 4661423 13 T21018 9881610 68 RL-2-2A 4661482 13 T21100 9881608 68 RL-2-3000 4661589 13 T6-4/5 4687141 29 RL-2-3011 4661597 13 TELL-7 4666076 65 RL-2-4000 4661538 13 TELL-7-AD 4669679 65 | RFA-209-STYLO-HD | 4687051 | 63 | T21004 | 9881618 | 68 |
| RFA-364-FH-12 9881665 65 T21007 9881615 68 RFA-368-FH 9881657 65 T21008 9881614 68 RL-2 4661601 12 T21010 9881613 68 RL-2/4/8-415 4496770 13 T21012 9881612 68 RL-2/4-303 4495471 13 T21014 9881611 68 RL-2/4-3060 4661423 13 T21018 9881610 68 RL-2-2A 4661482 13 T21100 9881608 68 RL-2-3000 4661589 13 T6-4/5 4687141 29 RL-2-3011 4661597 13 TELL-7 4666076 65 RL-2-4000 4661538 13 TELL-7-AD 4669679 65 | RFA-364-FH-08 | 9881667 | 65 | T21005 | 9881617 | 68 |
| RFA-368-FH 9881657 65 T21008 9881614 68 RL-2 4661601 12 T21010 9881613 68 RL-2/4/8-415 4496770 13 T21012 9881612 68 RL-2/4-303 4495471 13 T21014 9881611 68 RL-2/4-3060 4661423 13 T21018 9881610 68 RL-2-2A 4661482 13 T21100 9881608 68 RL-2-3000 4661589 13 T6-4/5 4687141 29 RL-2-3011 4661597 13 TELL-7 466076 65 RL-2-4000 4661538 13 TELL-7-AD 4669679 65 | RFA-364-FH-10 | 9881666 | 65 | T21006 | 9881616 | 68 |
| RL-2 4661601 12 T21010 9881613 68 RL-2/4/8-415 4496770 13 T21012 9881612 68 RL-2/4-303 4495471 13 T21014 9881611 68 RL-2/4-3060 4661423 13 T21018 9881610 68 RL-2-2A 4661482 13 T21100 9881608 68 RL-2-3000 4661589 13 T6-4/5 4687141 29 RL-2-3011 4661597 13 TELL-7 4666076 65 RL-2-4000 4661538 13 TELL-7-AD 4669679 65 | RFA-364-FH-12 | 9881665 | 65 | T21007 | 9881615 | 68 |
| RL-2 4661601 12 T21010 9881613 68 RL-2/4/8-415 4496770 13 T21012 9881612 68 RL-2/4-303 4495471 13 T21014 9881611 68 RL-2/4-3060 4661423 13 T21018 9881610 68 RL-2-2A 4661482 13 T21100 9881608 68 RL-2-3000 4661589 13 T6-4/5 4687141 29 RL-2-3011 4661597 13 TELL-7 4666076 65 RL-2-4000 4661538 13 TELL-7-AD 4669679 65 | RFA-368-FH | | | | | |
| RL-2/4/8-415 4496770 13 T21012 9881612 68 RL-2/4-303 4495471 13 T21014 9881611 68 RL-2/4-3060 4661423 13 T21018 9881610 68 RL-2-2A 4661482 13 T21100 9881608 68 RL-2-3000 4661589 13 T6-4/5 4687141 29 RL-2-3011 4661597 13 TELL-7 4666076 65 RL-2-4000 4661538 13 TELL-7-AD 4669679 65 | | | | | | |
| RL-2/4-303 4495471 13 T21014 9881611 68 RL-2/4-3060 4661423 13 T21018 9881610 68 RL-2-2A 4661482 13 T21100 9881608 68 RL-2-3000 4661589 13 T6-4/5 4687141 29 RL-2-3011 4661597 13 TELL-7 4666076 65 RL-2-4000 4661538 13 TELL-7-AD 4669679 65 | | | | | | |
| RL-2/4-3060 4661423 13 T21018 9881610 68 RL-2-2A 4661482 13 T21100 9881608 68 RL-2-3000 4661589 13 T6-4/5 4687141 29 RL-2-3011 4661597 13 TELL-7 4666076 65 RL-2-4000 4661538 13 TELL-7-AD 4669679 65 | | | | | | |
| RL-2-2A 4661482 13 T21100 9881608 68 RL-2-3000 4661589 13 T6-4/5 4687141 29 RL-2-3011 4661597 13 TELL-7 4666076 65 RL-2-4000 4661538 13 TELL-7-AD 4669679 65 | | | | | | |
| RL-2-3000 4661589 13 T6-4/5 4687141 29 RL-2-3011 4661597 13 TELL-7 4666076 65 RL-2-4000 4661538 13 TELL-7-AD 4669679 65 | | | | | | |
| RL-2-3011 4661597 13 TELL-7 4666076 65 RL-2-4000 4661538 13 TELL-7-AD 4669679 65 | | | | | | |
| RL-2-4000 4661538 13 TELL-7-AD 4669679 65 | | | | | | |
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| 11-2-400 4001040 13 1ELL-7-DA-1/2 4009466 65 | | | | | | |
| | nL-2-400 | 4001040 | 13 | I CLL-1-DA-1/Z | 4009466 | 00 |

| Designation | Part No. | Pg |
|---------------------|----------|----|
| TELL-7-BA-1/4" | 4669432 | 65 |
| TELL-7-BA-3/4" | 4669483 | 65 |
| TELL-7-BA-3/8" | 4669458 | 65 |
| TELL-7-BA-5/16" | 4669440 | 65 |
| TELL-7-BA-5/8" | 4669475 | 65 |
| TELL-7-BA-7/8" | 4669491 | 65 |
| TELL-7-HANDLE | 4669513 | 65 |
| TELL-7-LB | 4669407 | 65 |
| TELL-7-SB | 4669416 | 65 |
| TOOL-BAG | 4683078 | 71 |
| TRACE-LOCATOR | 4686715 | 53 |
| TRACE-LOCATOR-CASE | 4686708 | 53 |
| TRACE-LOCATOR-TV-01 | 4686703 | 53 |
| TW-8 | 4666034 | 68 |
| V-R-B-001/10 | 9884847 | 37 |
| V-R-R-002/10 | 9884848 | 37 |
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Warranty policy:

Products are warranted at the time of sale, to be free of defects due to manufacturing workmanship and materials and/or operation due to normal operating conditions. If products are found defective within 2 years of factory shipment, the factory must be called before executing the warranty. This warranty does not cover defects due to improper installation, failure to exercise normal maintenance, or against the consequences or uses for which our products are not designed. REFCO's sole expressed obligation(s) is to repair, replace or issue credit at our option, any of the products determined by REFCO to have been defective during the expressed warranty period. Unless otherwise specified by REFCO or an

authorized agent all products must be returned to REFCO to be considered for warranty purpose(s). Labor and installation charges of any kind are not covered under this warranty. Products repaired or replaced under this warranty are warranted only through the remainder of the original warranty. An RMA # is required for any item considered for warranty. This express warranty is in lieu of and excludes all other express or implied warranties, guarantees, or representations, merchantability and fitness for a particular purpose, by operation of law or otherwise. REFCO shall not be liable for any indirect or consequential damages of any nature whatsoever.

| Notes | |
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