

# EVACUATING AND CHARGING EQUIPMENT



# EVACUATING AND CHARGING EQUIPMENT



## 1. BLUE VAC "ITE"® VACUUM PUMPS

"ITE"® offers a wide range of CE marked VACUUM PUMPS suitable for use on all **CFC**, **HCFC** and **HFC** systems. These pumps can be used with "MINERAL" or "ESTER" oil.

### Equipped with:

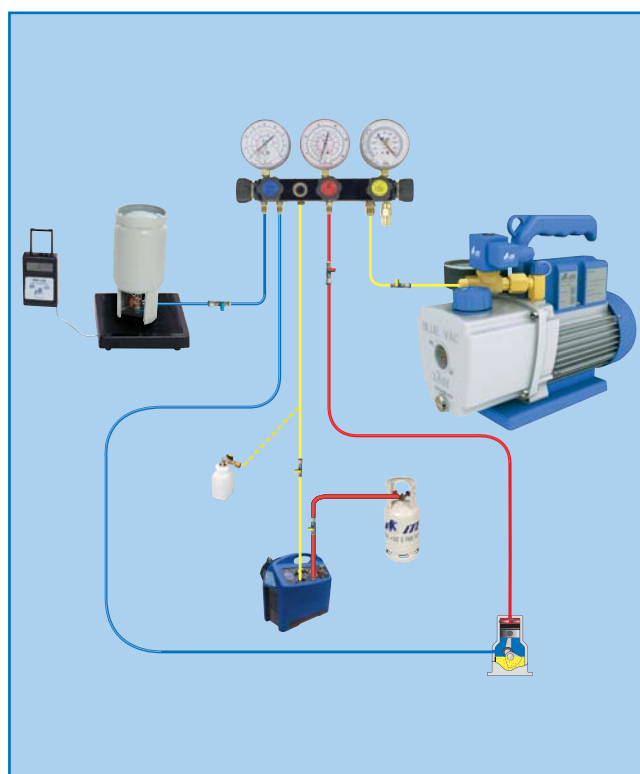
- Electrically operated solenoid valve
- Vacuum gauge
- Oil mist filter
- Non return valve
- Dual voltage switch

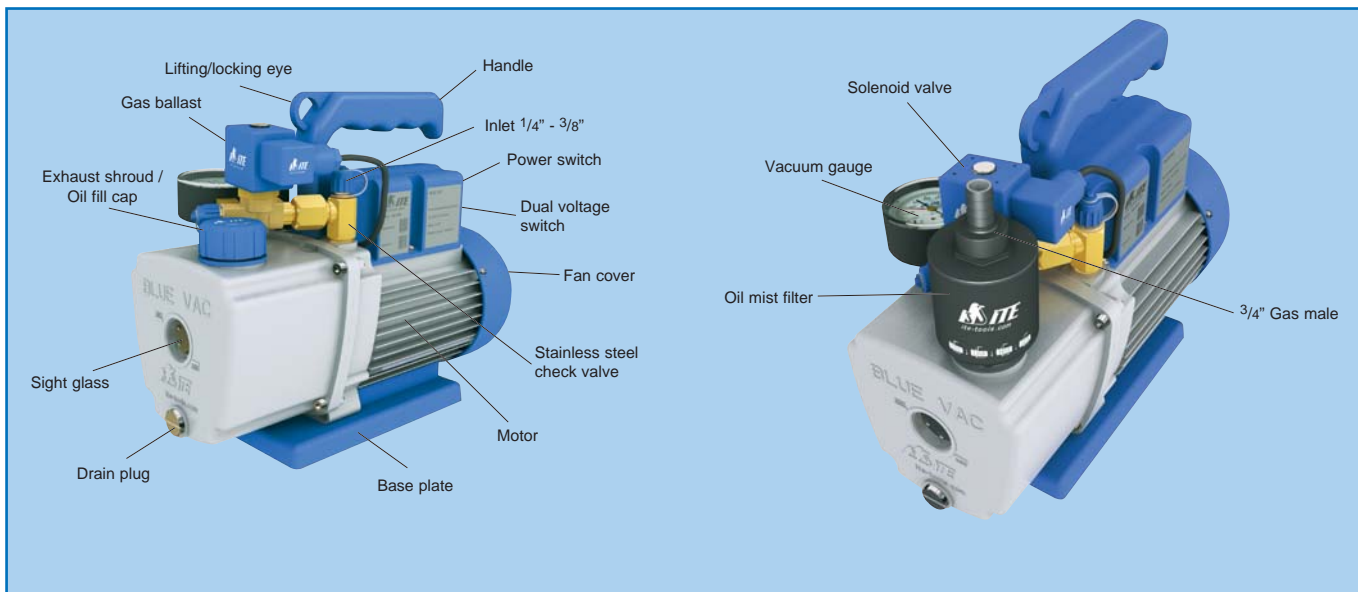
### GENERAL FEATURES

- Thermal overload protection
- Start: 0°C
- Optional manifold bracket
- 3 different types of electrical connections/plugs (USA, EC, Italy) to be specified when ordering
- Pump can operate on all CFC, HCFC and HFC refrigerant systems.
- For continuous use on CFC and HCFC systems, we recommend 205-P mineral oil
- For use on HFC systems, we recommend 500-P ester oil

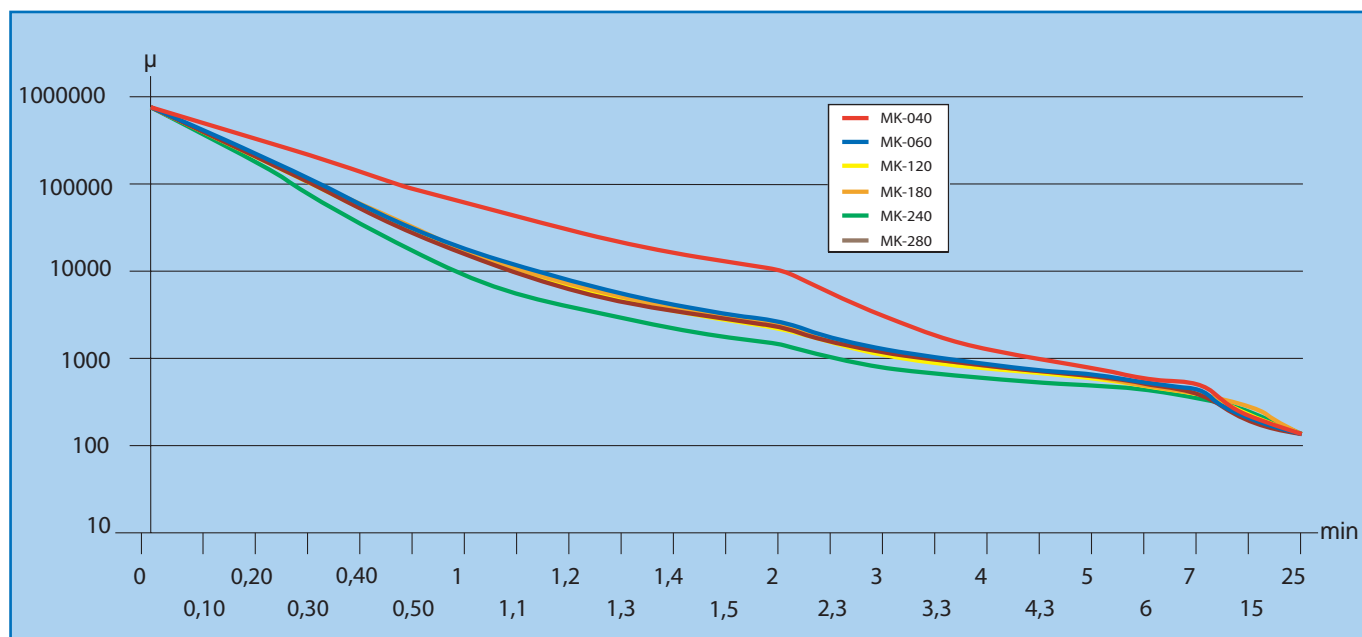
### NOTICE:

- Only start using the vacuum pump when all refrigerant is recovered from the system. Never try to transfer liquid with this vacuum pump.
- Pump needs to be connected at the highest point of the system.





	Voltage	Free air displacement		Ultimate vacuum		Motor		Motor Speed	Oil cap.	Dimensions	Net weight
<b>MK-040-DS</b>	220 V/50Hz	40 L/min	1.44 CFM	15 micron	0.020 mBar	0.19 kW	1/4 HP	1440 RPM	350 ml	330 x 135 x 255 mm	11,50 kg
	110 V/60Hz	48 L/min	1.70 CFM			0.19 kW	1/4 HP	1720 RPM			
<b>MK-060-DS</b>	220 V/50Hz	66 L/min	2.30 CFM	15 micron	0.020 mBar	0.25 kW	1/3 HP	1440 RPM	380 ml	350 x 143 x 265 mm	12,00 kg
	110 V/60Hz	78 L/min	2.75 CFM			0.25 kW	1/3 HP	1720 RPM			
<b>MK-120-DS</b>	220 V/50Hz	132 L/min	4.66 CFM	15 micron	0.020 mBar	0.25 kW	1/3 HP	2880 RPM	450 ml	330 x 135 x 265 mm	15,50 kg
	110 V/60Hz	156 L/min	5.50 CFM			0.37 kW	1/2 HP	3440 RPM			
<b>MK-180-DS</b>	220 V/50Hz	176 L/min	6.23 CFM	12 micron	0.016 mBar	0.37 kW	1/2 HP	2880 RPM	500 ml	350 x 143 x 285 mm	17,50 kg
	110 V/60Hz	212 L/min	7.50 CFM			0.50 kW	2/3 HP	3440 RPM			
<b>MK-240-DS</b>	220 V/50Hz	225 L/min	7.94 CFM	12 micron	0.016 mBar	0.50 kW	2/3 HP	2880 RPM	500 ml	380 x 160 x 285 mm	18,00 kg
	110 V/60Hz	270 L/min	9.53 CFM			0.50 kW	2/3 HP	3440 RPM			
<b>MK-280-DS</b>	220 V/50Hz	273 L/min	9.64 CFM	12 micron	0.016 mBar	0.50 kW	2/3 HP	2880 RPM	500 ml	380 x 160 x 285 mm	18,50 kg
	110 V/60Hz	326 L/min	11.50 CFM			0.56 kW	3/4 HP	3440 RPM			



## 2. SPARE PARTS FOR VACUUM PUMPS

### VPF-40 OIL MIST EXHAUST FILTER

#### DESCRIPTION

- Designed to be mounted on the exhaust of our complete Blue Vac series vacuum pumps (except NH<sub>3</sub>).
- Ensures perfect filtration of the exhaust mist and optimal separation of air and oil.
- The metal housing is treated against corrosion.
- Contains a replaceable cartridge element, which allows extended use, even in poor working conditions.
- Very low maintenance cost, as only the cartridge has to be replaced.
- It is recommended to change the filter cartridge (model VPC-40) each time an oil change or maintenance has been performed.
- When using the outlet connection on the filter, do not reduce the original outlet diameter. If an exhaust hose is mounted on the outlet of the filter, use the shortest possible length and make sure that the hose is not kinked, pinched off, reduced or clogged along its length.

#### FEATURES

- Element type: Fibre glass.
- Filtering rate: 99.97% (0,3 µm).

### VPC-40 VACUUM PUMP CARTRIDGE for VPF-40

**SV2W-38/627-VRP-110 KIT SOLENOID VALVE 3/8" SAE + VACUUM GAUGE**  
Only use for DUAL VOLTAGE MK pumps

**SV2W-38/627-VRP-220 KIT SOLENOID VALVE 3/8" SAE + VACUUM GAUGE**  
Only use for MK pumps in 220 V  
**Do not use this solenoid valve for the BLUE VAC line pumps**

**SV2W-38/110 SOLENOID VALVE 3/8" SAE**  
Only use for DUAL VOLTAGE MK pumps

**SV2W-38/220 SOLENOID VALVE 3/8" SAE**  
Only use for MK pumps in 220 V  
**Do not use this solenoid valve for the BLUE VAC line pumps**

### 627-VRP RELATIVE VACUUM GAUGE Ø 60 mm

#### DESCRIPTION

- 60 mm "PULSE-FREE" relative vacuum gauge
- Adjustable red pointer for reference mark
- 1/8" male NPT bottom connection
- Reading in mbar, 1000 - 0 mbar. Class 1.6
- Zero calibration screw
- 1/4" turn screw-type crystal lens

**PMK-08-ALL** Spare electrical cable with USA plug  
**PMK-09-ALL** Spare electrical cable with EC plug  
**PMK-10-ALL** Spare electrical cable with UK plug  
**PMK-11-ALL** Spare electrical cable with Italian plug  
**PMK-29-ALL** 110 V Industrial Plug + Cable  
**PMK-30-ALL** 220 V Industrial Plug + Cable

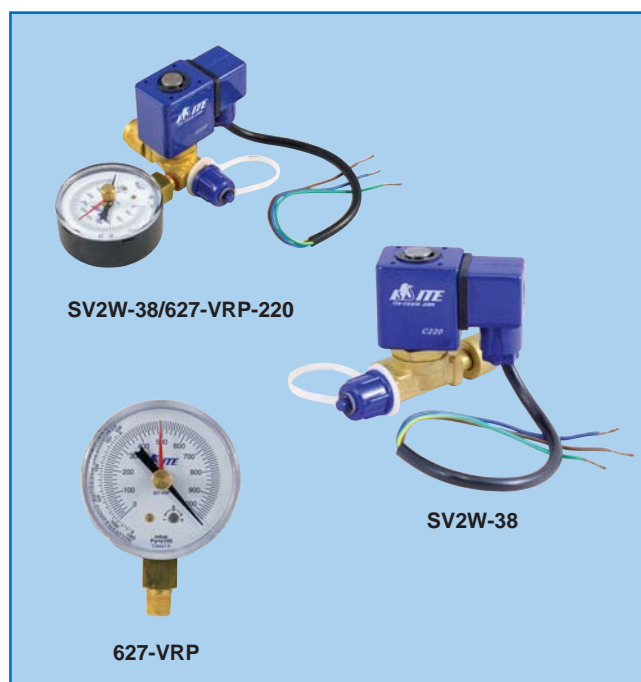
## 3. ACCESSORIES

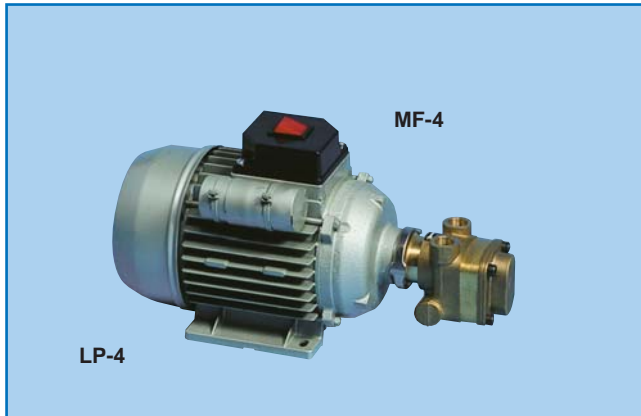
### SPECIAL OIL FOR ALL" ITE®" VACUUM PUMPS

**205-P06** 600 ml PLASTIC BOTTLE MINERAL OIL  
**205-P1** ONE LITRE PLASTIC BOTTLE MINERAL OIL  
**205-P4** FOUR LITRE PLASTIC BOTTLE MINERAL OIL

**500-P1** ONE LITRE PLASTIC BOTTLE ESTER OIL  
**500-P5** FIVE LITRE PLASTIC BOTTLE ESTER OIL

**NOTE:** We recommend that the oil is changed after every service job. Clear oil after checking is not necessarily safe one ...  
Protect your pump... Remember, never store your pump with oil...  
Carefully drain it...



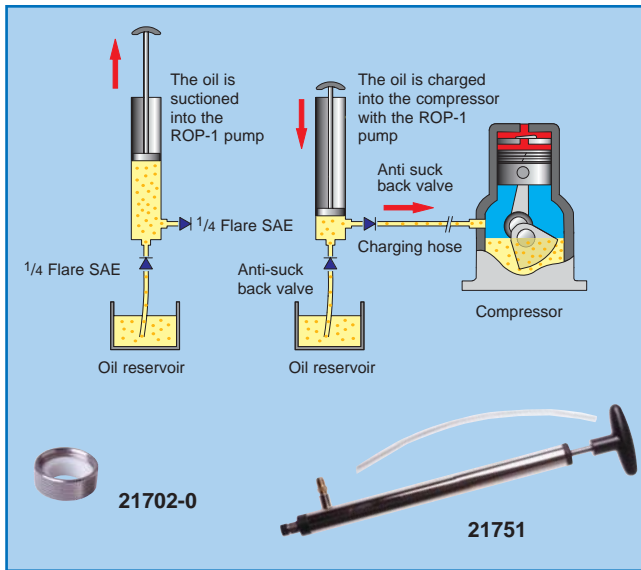


## 4. LIQUID PUMP MF-4 WITH LP-4

<b>MF-4+LP-4</b>	<b>COMPLETE LIQUID PUMP ASSEMBLY</b>
<b>MF-4</b>	<b>LIQUID PUMP ONLY</b>
<b>LP-4</b>	<b>MOTOR ONLY</b>

- Liquid pump suitable for all refrigerants.
- Rapid transfer of liquids.
- Capacity: **2 L/min** at **25 bar** for R12 with  $\frac{3}{8}$ " hoses.
- Weight: **9 kg**

<b>U1-04C</b>	<b>ADAPTER</b> $\frac{3}{8}$ " MPT pipe x $\frac{1}{4}$ " male fl. SAE
<b>U1-06C</b>	<b>ADAPTER</b> $\frac{3}{8}$ " MPT pipe x $\frac{3}{8}$ " male fl. SAE



## 5. REFRIGERANT OIL PUMP

<b>21751</b>	<b>CHARGING AND EVACUATION PUMP (Complete)</b>
<b>21702-0</b>	<b>SUCTION ADAPTER FOR SUNISO BARREL</b>

This hand pump is used to charge or evacuate oil into or from the compressor. It can also be used to transfer, charge or take samples of oil for analysis.

- Rapid
- Precise
- Clean



## 6. HEATING BELT WITH THERMOSTAT

<b>RCH-10</b>	<b>HEATING BELT</b>
	For max temperature of <b>+60°C (+140°F)</b>
	Power consumption: <b>230V/400W</b>
	<b>New unique fastening system with spring allows use on most cylinders with different diameter (e.g. RCYL-12L, FRIOCATCH 14,3l, ... up to the big cylinders)</b>
Dimensions	Length: 70 cm
	Width: 8 cm
	Minimum Ø: 23 cm
Maximum Ø:	32,5 cm

**WE CAN SUPPLY APPROVED EMPTY REFRIGERANT BOTTLES READY TO USE. SEE PAGE 40 OR ASK "ITE" ...**



## 7. CAPILLARY CHECK

<b>1003</b>	<b>CAPILLARY-TUBE CLEANING DEVICE</b>
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- For cleaning and unblocking capillary tubes in refrigeration systems.
- Possibility to clean individual, free sections of capillary tubes.
- The cleaning operation is done by pushing oil under high pressure into the capillary tube.
- Maximum pressure: **170 bar**.
- Suitable for different sizes of capillary tube.
- Weight: **1,9 kg**.

## 8. CONTROLS TEST PUMP FOR PRESSURE AND VACUUM TESTING

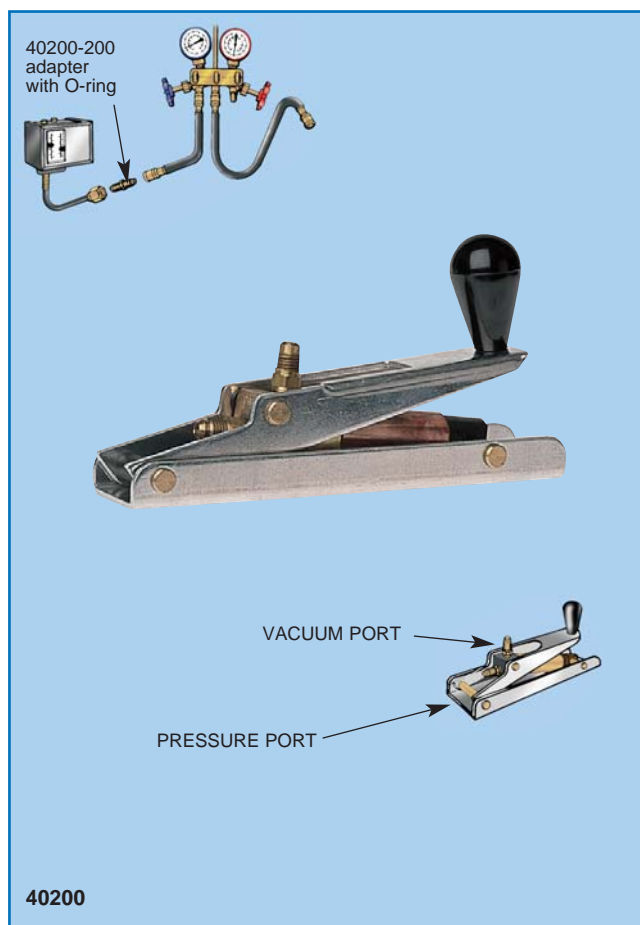
### 40200 MANUAL TEST PUMP (complete set)

#### DESCRIPTION

- Quickly and accurately test any assembly for vacuum or pressure
- Easy use for testing and setting single and dual pressure or vacuum controls
- Can be used with or for any gauge-manifold assembly
- Test range: **635 mm Hg (25 inch Hg) vacuum to 20 bar (300 Psi) pressure**
- Two **1/4" male flare SAE** connections (pressure and vacuum)
- Supplied complete with adapter (40201)

#### SPARE PARTS

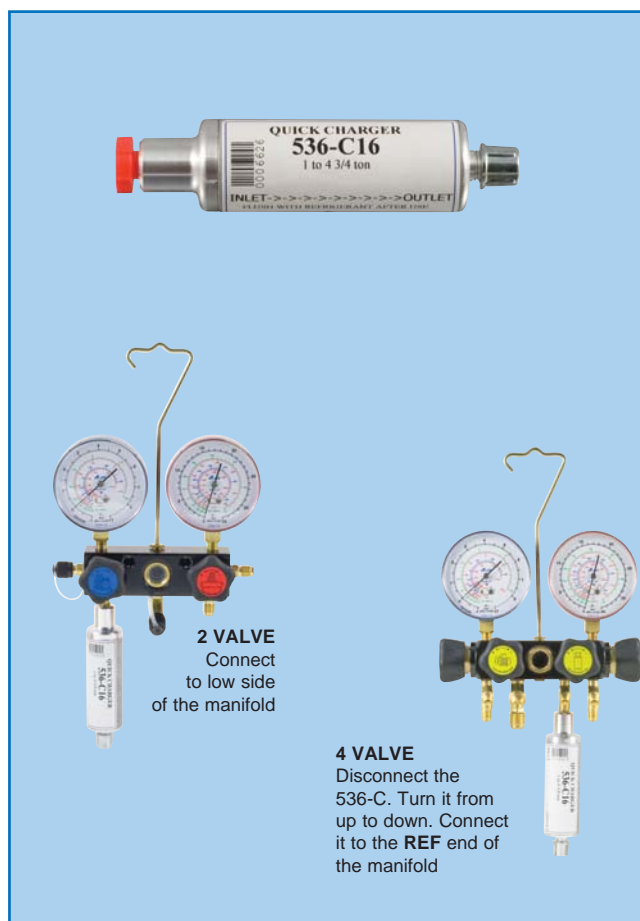
<b>40201-125</b>	Replacement O-ring for adapter 40201
<b>40200-200</b>	Replacement pressure access adapter 1/4" x 1/4" male flare SAE with internal thread
<b>40200-125</b>	Replacement O-ring for piston



## 9. QUICK CHARGERS

<b>536-C02</b>	<b>QUICK CHARGER</b> 1/4" female flare SAE (inlet) x 1/4" male flare SAE (outlet), for systems to 2.64 kW (3/4 ton)
<b>536-C16</b>	<b>QUICK CHARGER</b> 1/4" female flare SAE (inlet) x 1/4" male flare SAE (outlet), for systems from 3.52 to 16.72 kW (1 to 4 3/4 ton)
<b>536-C35</b>	<b>QUICK CHARGER</b> 1/4" female flare SAE (inlet) x 1/4" male flare SAE (outlet), for systems from 17.6 to 35.2 kW (5 to 10 ton)

- Accept **liquid refrigerant** from the refrigerant cylinder (no need to heat it) and discharge directly **into low side** of the system (via an expansion device).
- Charging rate is up to **8 times faster** than vapour charging.
- In addition, liquid charging is needed when using tracing dye.
- The quick charger is screwed-in to the low side of the charging manifold or charging station manifold. Then, charging hose is connected from the quick charger outlet to low side of the system.
- Reduce liquid flow to a level below capacity of compressor. This assures a safe, fast charge without endangering the compressor.
- A **built-in ball check-valve** automatically opens when drawing a vacuum to assure rapid, unrestricted evacuation.
- Suitable for all **CFC, HCFC and HFC** refrigerant systems.



# BLUE CHARGING STATIONS

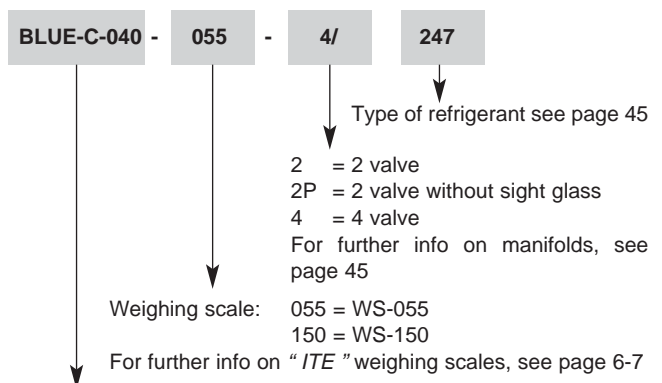
FOR ALL CFC, HCFC & HFC REFRIGERANTS

## SPECIFICATIONS

- Multi functional frame allows different assembly versions (2 valve or 4 valve manifolds).
- Easy operation.
- Equipped with weighing scale (see page 6-7)
- Manifold with diaphragm type valves for deep vacuum service.
- Equipped with 80 mm PULSE FREE gauges with zero calibration screw.
- Supplied with bottle of mineral vacuum pump oil type 205-P or ester oil type 500-P
- 3 heavy duty charging hoses with ball valve (L: 150 cm) : 3HDCS-60/V
- Supplied with CE mark.

## HOW TO ORDER

Since we can supply the station with different types of pumps, manifolds, weighing scales, we have developed a simple system to generate the part number (see below).



Frame + Pump

040 = MK-040-DS

060 = MK-060-DS

120 = MK-120-DS

180 = MK-180-DS

240 = MK-240-DS

280 = MK-280-DS

For further info on "ITE" vacuum pumps, see page 33

## MOST POPULAR MODELS

BLUE-C-040-055-2/410 Blue charging station

BLUE-C-040-055-2/447 Blue charging station

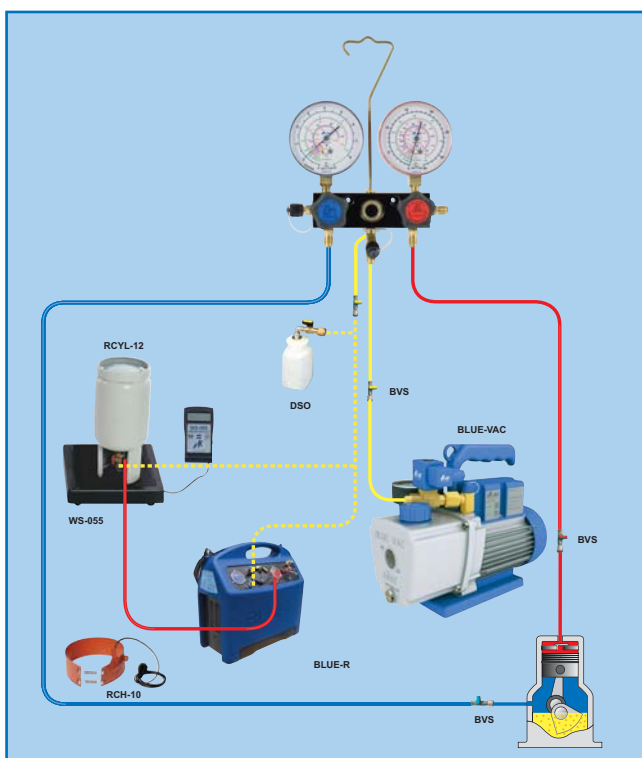
BLUE-C-040-055-4/447 Blue charging station

BLUE-C-060-055-2/410 Blue charging station

BLUE-C-060-055-2/447 Blue charging station

BLUE-C-060-055-4/247 Blue charging station

BLUE-C-060-055-4/447 Blue charging station



## AUTOMOTIVE ACCESSORIES

### KIT for R12 SYSTEMS

**WITH 1/4" Flare SAE Connections**

<b>DS/O-12</b>	<b>OIL DOSOMETER</b> with 1/4" SAE female flare swivel
<b>HDS-60-Y/V</b>	<b>FLEXIBLE HOSE "HEAVY DUTY"</b> with ball valve. Length: 150 cm (60")
<b>M-HDL-6</b>	<b>SHORT FLEXIBLE HOSE</b> with 1/4" flare SAE with ball valve (colour coded)
<b>K1-12</b>	<b>CYLINDER ADAPTER</b>
<b>QC-E3</b>	<b>ADAPTER</b> (3/16" female x 1/4" male flare SAE)



### KIT for R134a SYSTEMS

**WITH 3/8" Flare SAE Connections**

<b>DS/O-134/6</b>	<b>OIL DOSOMETER</b> with 3/8" flare female SAE
<b>HDS-60-Y/V</b>	<b>FLEXIBLE HOSE "HEAVY DUTY"</b> with ball valve. Length: 150 cm (60")
<b>QVA-05</b>	<b>AUTOMOTIVE Low pressure service valve</b> with U1-04M14, U1-06M14 adapters and spare gaskets
<b>QVA-03</b>	<b>AUTOMOTIVE High pressure service valve</b> with U1-04M14, U1-06M14 adapters and spare gaskets
<b>U1-04M14</b>	<b>ADAPTER</b> 1/4" x M14
<b>U1-06M14</b>	<b>ADAPTER</b> 3/8" x M14 + O-ring

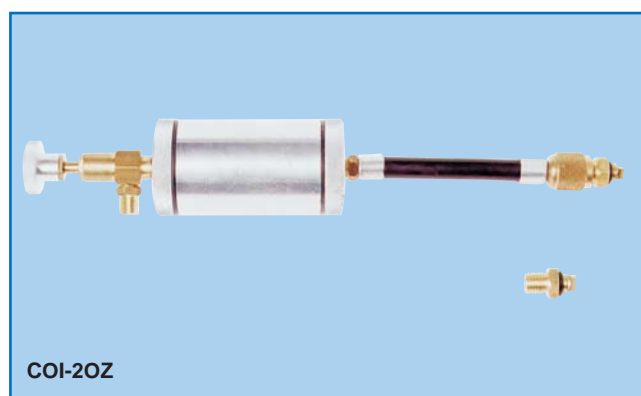


## OIL INJECTOR/UV TRACER DYE INJECTOR

<b>COI-20Z</b>	<b>COMPRESSOR OIL INJECTOR ADAPTER</b> for air conditioning
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#### FEATURES

- Adds compressor oil to air conditioning system.
- Works in conjunction with manifold gauge.
- Use when adding refrigerant.
- Capacity: **57 gr** (2 Oz)
- With adapter for R134a systems.
- See page 4 for UVL-50W UV leak detection lamp.



#### INJEC SYSTEM INJECTOR

- Used for introducing any liquid into the low side of a charged hermetic system.
- The System Injector helps prevent the venting of refrigerants into the atmosphere, as well as the introduction of air into an operating system. It can be used on sealed operating systems to avoid shutdowns.
- Entirely reusable. Constructed of rugged aluminium for long life.
- Designed for use with any standard manifold gauge and requires no extra valves or fittings.
- Dip proof, no spill design takes the mess out of maintenance.
- **For use with Trace 2, Thawzone and Acid Neutraliser.**



# CHARGING AND RECOVERY CYLINDERS



## 1. REFRIGERANT RECOVERY CYLINDERS

- These different sized ITE recovery cylinders have a double valve (blue/red) with 1/4" male flare SAE connections
- Test pressure 48 bar

### RCYL-12L RECOVERY CYLINDER

- Cylinder volume: 12,5 L
- Height: 52 cm
- Diameter: 23 cm
- Tare weight: 8,2 kg

### RCYL-30L RECOVERY CYLINDER

- Cylinder volume: 27,2 L
- Height: 64 cm
- Diameter: 30 cm
- Tare weight: 14,9 kg

### RCYL-50L RECOVERY CYLINDER

- Cylinder volume: 50 L
- Height: 117 cm
- Diameter: 28 cm
- Tare weight: 24,7 kg

- Other cylinders available upon request

### RCH-10 HEATING BELT, see page 36



RCYL-12L

## 2. "ITE®" STAINLESS STEEL WELDED CHARGING CYLINDERS

MCSS-0.55	550 gr	CYLINDER	R12, R22, R502
MCSS-1	1100 gr	CYLINDER	R12, R22, R502
MCSS-2	2200 gr	CYLINDER	R12, R22, R502
MCSS-0.55/44	550 gr	CYLINDER	R134a / R404A
MCSS-1/44	1100 gr	CYLINDER	R134a / R404A
MCSS-2/44	2200 gr	CYLINDER	R134a / R404A

This 2nd generation of charging cylinders which can be supplied from stock offers a number of advantages over the traditional models on the market.

### FEATURES

- No leakage: welded stainless steel design
- Less fragile during transport, sight glass protection and impact resistant, polyethylene external cylinder with high flexibility.
- Higher accuracy because of temperature reading instead of pressure reading.
- Special marker eliminates the reading error (parallax error).
- Easy operation, double valve for liquid and vapour charging.
- Self regulating electrical heating element - 60 Watt.
- Easy change of refrigerant scale.

Other refrigerant scales are available on request.

### HIGHER ACCURACY

Instead of determining the volume in the cylinder by pressure, this cylinder is **equipped with a temperature tester which measures the temperature of the refrigerant** and uses this read out to determine the volume. This **eliminates the effect of non-condensing gases** on the pressure read out.

### ELIMINATES THE READING ERROR (PARALLAX ERROR)

Red marker is placed on the outer scales which guarantees a 100% straight read off.

**Advantage:** Combined with the higher accuracy of the temperature read out, this concept offers a general accuracy for filling of  $\pm 2$  gram.

We still can supply Portable ITE Charging Stations with stainless steel charging cylinder upon request.

## 3. "ITE®" CLASSIC CHARGING CYLINDERS

### FEATURES

- Standard and classic METRIC CHARGING CYLINDERS.
- All these cylinders are also available with OUNCE divisions.
- Immediate read-out (12.5, 25 and 50 gr divisions).
- Equipped with 45W heating element which can have an "ON-OFF" switch upon request.
- One "Schrader" valve and one expansion hand valve.
- Safety pressure relief valve set at 15 bar (215 Psi).

### CYLINDERS FOR R12, R22 and R502

MCC-2	2 kg METRIC CYLINDER (125 x 640 mm)
MCC-4/I	4 kg METRIC CYLINDER (160 x 640 mm) with electric switch

### CYLINDERS FOR R134a

MCC-550/4	0,5 kg METRIC CYLINDER (100 x 640 mm)
MCC-4/4	4 kg METRIC CYLINDER (160 x 640 mm)

### CYLINDERS FOR R22, R134a, R404A and R407C

MCC-2/247	2 kg METRIC CYLINDER (125 x 640 mm)
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### CYLINDERS FOR R134a, R404A, R407C and R507

MCC-4/447	4 kg METRIC CYLINDER (160 x 640 mm)
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# RECOVERY & RECYCLING EQUIPMENT

## 1. BLUE-R OIL FREE PORTABLE RECOVERY STATION

### BLUE-R-95 PORTABLE "ITE" STATION

#### FEATURES

- Suitable for all **CFC**, **HCFC** and **HFC** refrigerants with an evaporation pressure lower than 21 bar, R410A included.
- Recovery unit with maintenance free **oil less** compressor.
- Refrigerant selectable recovery. 3 position selector allows complete automatic recovery of all refrigerants categorized in pressure group low, medium or high (see below).
- Large built-in condenser ensures high efficient recovery and will make sure that recovered refrigerant will be liquified before it is being discharged in the recovery bottle.
- Equipped with electrical DIN connector to allow use with WS-30 or recovery bottle (float) overflow protection.
- Equipped with a self discharge mode allowing change from one refrigerant to another without cross contamination.
- Supplied with filter drier model **US-032** which can be replaced quickly and easily.
- Equipped with adjustable strap for easy carriage.

#### SPECIFICATIONS

##### Refrigerants:

##### Pressure Group Low:

CFC-11, CFC-12, CFC-113, CFC-114, CFC-115, HCFC-123, HCFC-124, HFC-134a, HCFC-401C, HCFC-406A, CFC-500

##### Pressure Group Medium:

HCFC-22, HCFC-401A, HCFC-401B, HCFC-402A, HCFC-402B, HFC-407C, HFC-407D, HCFC-408A, HCFC-409A, HCFC-411A, HCFC-411B, HCFC-412A, HCFC-415A, HCFC-415B, CFC-502, HCFC-509A

##### Pressure Group High:

HFC-404A, HFC-407A, HFC-407B, HFC-410A, HFC-507

- Recovery rate:
 

	Vapor	Liquid	Push/pull
Pressure Group Low:	14 kg/hour	94 kg/hour	278 kg/hour
Pressure Group Medium:	15 kg/hour	109 kg/hour	334 kg/hour
Pressure Group High:	16 kg/hour	111 kg/hour	373 kg/hour
- Power supply: 220 - 240V / 50Hz or 110 - 120V / 60Hz
- Motor: 1/2 HP
- Motor speed: 1450 RPM at 50Hz or 1750 RPM at 60Hz
- Max. current draw: 4 A at 50 Hz or 8 A at 60 Hz
- Compressor type: oilless, air cooled
- High pressure shut off: 38,6 bar / 3860 kPa / 560 PSI
- Operating temperature: 0° to +40°C
- Dimensions: 468 x 472 x 236 mm
- Weight: 18 kg

#### OPTIONAL ACCESSORIES

##### WS-30 WEIGHING SCALE

- Scale 0 - 25 kg
- Maximum weight 30 kg



BLUE-R-95



WS-30

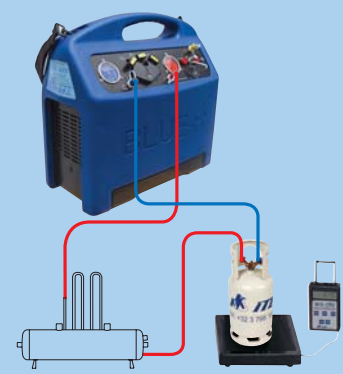
Direct Operation



MB4 Recovery



Push Pull



## 2. MOBILE REFRIGERANT RECYCLING MACHINE

**RV-220**

### MOBILE REFRIGERANT RECYCLING MACHINE

(For use with R12, R22, R502, R500 and all alternates in same range)

#### FEATURES

- Recovers and cleans all current popular refrigerants to purity levels required by international standards.
- Incorporates a patented separation chamber eliminating the need for frequent costly filter changes.
- Can take both vapor or liquid.
- In the separation chamber, copper chips, carbon, oil, acid, water and all other contaminants are separated and can later be removed during "oil out" operation.
- A remote cylinder supplied with the machine provides 14 kg (30 lb) of storage.
- To prevent the cylinder overfilling a float valve connected to the 'refrigerant in' solenoid will stop the refrigerant flow.
- A thermometer magnetically attached to the cylinder provides constant temperature/pressure readings allowing accurate, noncondensable gas removal.
- Additional cylinders can be used to allow recovery or recycling operations from larger systems whilst retaining all the necessary safety features.
- The liquid injection system permits pump down to acceptable vacuum levels without harm to the compressor.
- The manual pump down to 10" of vacuum allows changeover to different refrigerants without risk of cross contamination.
- The unit can be used to flush mineral oil from systems permitting fast and economical retrofit of systems.

#### SPECIFICATIONS

- Dimensions: Width 381 mm (15")  
Depth 470 mm (18,5")  
Height 610 mm (24")
- Weight: 46,5 kg (98 lbs) approximate
- Compressor: 0,75 Hp positive displacement hermetic
- Electrical: 208-230 VAC / 1 phase / 50Hz
- Refrigerants: R12, R22, R502, R500 and all alternates in same range
- In/out Valves: 1/4" SAE flare
- Storage capacity: 14 kg (30 lbs) in remote cylinder
- Recovery/recycle capacity: 0.6 kg (1.2 lbs)/min liquid, vapor slightly less

*Note:* 110V version available upon request.

#### SPARE PARTS

**US-163**

SPARE FILTER DRIER (see page 224)

**RCH-10**

HEATING BELT (see page 36)



RV-220



#### MARC-15/U

#### AUTOMATIC RECOVERY/RECYCLING, EVACUATION AND CHARGING UNIT

##### FEATURES

- Automatic unit for recovery/recycling, evacuation and recharging.
- Equipped with built in electronic weighing scale for accurate charge.
- Digital display allows reading of correct quantity of refrigerant recovered/recharged.
- Programmable time-set for the evacuation time.
- High speed, quality proven ITE MK-060DS vacuum pump included for fast and correct evacuation.
- Automatic warning via display for filter exchange.
- Possibility to discharge amount of oil recovered/recycled. At the same time via a separate oil dosometer the correct quantity of oil (or a fluorescent dye) can be refilled.
- Simple operation with simultaneous control of suction and discharge pressure.
- Program in language selectable.

##### SPECIFICATIONS

- For all CFC, HCFC and HFC refrigerants
- Working temperature: **10°C – 50°C**
- **Automatic functions**
  - **Recovery**
  - **Oil discharge**
  - **Oil injection**
  - **Recycling**
  - **Vacuum**
  - **Recharging**
- Recovery/recycling capacity: **500 gr./min.**
- Vacuum pump 60l/min., 0,02 mbar
- Compressor capacity: 1/3 HP
- Aircooled condenser
- Electronic weighing scale with 60 kg capacity, 15 gr resolution
- Built in storage tank of 15 kg or 25 kg capacity
- Three-function filters (moisture, particles, acid) type US-032
- Vacuum gauge for automatic leakage control.
- Ø 80 gauges for suction and discharge control
- Automatic purging of non condensable
- Automatic discharge of the recovered oil
- Automatic refilling of new oil with timed solenoid valve
- Oil recovery bottle, Oil filling bottle, Dye bottle 210 ml
- Supplied with 2 hoses and R134a adapters with valve
- Dimensions: 400 x 620 x 1070 mm, weight: 70 kg

### 3. "MULTI-R" TROLLEY STATIONS



#### MULTI-R-COMBI/V2

#### "ITE" TROLLEY STATION RECOVERY, CLEANING, EVACUATION & CHARGING (For use with R12 and/or R134a systems)

##### SPECIFICATIONS

- Net weight: **42 kg** (92,5 Lbs)
- Dimensions (LxHxD): **615 x 1010 x 415 mm**
- Refrigerants: **R12, R134a** (for charging cylinder)  
**R12, R22, R502, R500, R134a, R401A/B, R402A/B, R404A** (for recovery unit)
- Nominal voltage: **220 - 240V**
- Maximum power: **435 VA**
- Ultimate vacuum (McLeod): **3 microns**
- Weighing scale WS-055
- Refrigerant recovery unit: **MAXI-R**
- Recycling module
- Vacuum pump: **MK-040DS**
- Cylinder **RCYL-12L** for refrigerant: **12,5 Lit.**
  - Test pressure: **48 bar**
  - Operating pressure: **25 bar**
  - Tara weight: **8,2 kg**

##### FEATURES

- The TROLLEY both recovers and cleans the refrigerant and stores into a recovery bottle supplied with the unit.
- Cleaning of the refrigerant through oil separator and filter-drier.
- 2-stage MK-040DS (40 L/min) vacuum pump allows quick evacuation (further specifications on pump, see page 34).
- Weighing scale 55 kg (WS-055) for fast and accurate charging (for further specifications on weighing scales, see page 6).
- Supplied with heavy duty hoses with ball valves and diaphragm type manifold with pulse free gauges.
- The most economical solution for all your service work on A/C or domestic systems.

Part. nr.	Pdf file
2001-VG	see Service manifolds, gauges and charging hoses
2001-VG	see Service manifolds, gauges and charging hoses
203-FA	see Tube working tools
2041-BT-2	see Fluid control components
2041-BT-2	see Fluid control components
2041-BT-2S2	see Fluid control components
2041-BT-2S2	see Fluid control components
2041-BT-3	see Fluid control components
2041-BT-3	see Fluid control components
2041-BT-3S3	see Fluid control components
2041-BT-3S3	see Fluid control components
2041-BT-4	see Fluid control components
2041-BT-4	see Fluid control components
2041-BT-4	see Fluid control components
2041-BT-4S4	see Fluid control components
2041-BT-4S4	see Fluid control components
2041-BT-4S5	see Fluid control components
2041-BT-4S5	see Fluid control components
2041-BT-5	see Fluid control components
2041-BT-5	see Fluid control components
2041-BT-5S5	see Fluid control components
2041-BT-5S5	see Fluid control components
2041-BT-5S5	see Fluid control components
2041-BT-5S6	see Fluid control components
2041-BT-5S6	see Fluid control components
2041-BT-5S6	see Fluid control components
2041-BT-5S7	see Fluid control components
2041-BT-5S7	see Fluid control components
205-P06	see Evacuating and charging equipment
205-P06	see Refrigeration accessories
205-P1	see Evacuating and charging equipment
205-P1	see Refrigeration accessories
205-P4	see Evacuating and charging equipment
205-P4	see Refrigeration accessories
206-FB	see Tube working tools
20-A	see Automatic access valves & fittings
21702-0	see Evacuating and charging equipment
21751	see Evacuating and charging equipment
227-FA	see Tube working tools
2444-RC	see Refrigeration accessories
25563	see Electronic measurement and control instruments
25860	see Refrigeration accessories
25863	see Refrigeration accessories
25869	see Refrigeration accessories
25870	see Refrigeration accessories
260-FAH	see Tube working tools
268	see Electronic measurement and control instruments
26880	see Tube working tools
26-C	see Automatic access valves & fittings
270-F-06	see Tube working tools
270-F-08	see Tube working tools
270-F-10	see Tube working tools
270-F-12	see Tube working tools
270-F-14	see Tube working tools
270-F-16	see Tube working tools
270-F-18	see Tube working tools
271-F	see Tube working tools
275-FS	see Tube working tools
275-FSC	see Tube working tools
275-FSM	see Tube working tools
27805	see Tube working tools
27806	see Tube working tools
27806M	see Tube working tools
27808	see Tube working tools
27808M	see Tube working tools
27810	see Tube working tools
27810M	see Tube working tools
27812	see Tube working tools
27812M	see Tube working tools
27814M	see Tube working tools
27816M	see Tube working tools
27818M	see Tube working tools
27820M	see Tube working tools
27-C	see Automatic access valves & fittings
2802-BC	see Service manifolds, gauges and charging hoses
2802-BC	see Service manifolds, gauges and charging hoses
2802-BC/247	see Service manifolds, gauges and charging hoses
2802-BC/247	see Service manifolds, gauges and charging hoses
2802-BC/4	see Service manifolds, gauges and charging hoses
2802-BC/447	see Service manifolds, gauges and charging hoses
2802-BPC	see Service manifolds, gauges and charging hoses
2802-BPC	see Service manifolds, gauges and charging hoses
2802-BPC/410	see Service manifolds, gauges and charging hoses
2802-BPC/410	see Service manifolds, gauges and charging hoses
2802-BPC/410/27	see Service manifolds, gauges and charging hoses
2802-BPC-1.0/410	see Service manifolds, gauges and charging hoses
2802-G-BC	see Service manifolds, gauges and charging hoses
2802-G-BC/247	see Service manifolds, gauges and charging hoses
2802-G-BC/4	see Service manifolds, gauges and charging hoses
2802-G-BC/447	see Service manifolds, gauges and charging hoses
2802-G-BPC	see Service manifolds, gauges and charging hoses
2804-BC	see Service manifolds, gauges and charging hoses
2804-BC/247	see Service manifolds, gauges and charging hoses
2804-BC/27	see Service manifolds, gauges and charging hoses
2804-BC/4	see Service manifolds, gauges and charging hoses
2804-BC/447	see Service manifolds, gauges and charging hoses
2804-BPC	see Service manifolds, gauges and charging hoses
2804-G-BC	see Service manifolds, gauges and charging hoses

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Part. nr.	Pdf file
86109	see Inline components and accessories
86111	see Inline components and accessories
8694405	see Tube working tools
8694405	see Tube working tools
8921626-E	see Service manifolds, gauges and charging hoses
8921626-E	see Service manifolds, gauges and charging hoses
93-S-03	see Tube working tools
93-S-04	see Tube working tools
93-S-05	see Tube working tools
93-S-06	see Tube working tools
93-S-08	see Tube working tools
93-S-10	see Tube working tools
93-S-12	see Tube working tools
93-S-14	see Tube working tools
94-S	see Tube working tools
95-S	see Tube working tools
A01203	see Copper tubes, coils & solder fittings (Inch & Metric)
A01211	see Copper tubes, coils & solder fittings (Inch & Metric)
A01278	see Copper tubes, coils & solder fittings (Inch & Metric)
A01366	see Copper tubes, coils & solder fittings (Inch & Metric)
A01392	see Copper tubes, coils & solder fittings (Inch & Metric)
A01402	see Copper tubes, coils & solder fittings (Inch & Metric)
A01409	see Copper tubes, coils & solder fittings (Inch & Metric)
A01422	see Copper tubes, coils & solder fittings (Inch & Metric)
A01431	see Copper tubes, coils & solder fittings (Inch & Metric)
A01467	see Copper tubes, coils & solder fittings (Inch & Metric)
A01504	see Copper tubes, coils & solder fittings (Inch & Metric)
A01529	see Copper tubes, coils & solder fittings (Inch & Metric)
A01556	see Copper tubes, coils & solder fittings (Inch & Metric)
A01590	see Copper tubes, coils & solder fittings (Inch & Metric)
A01628	see Copper tubes, coils & solder fittings (Inch & Metric)
A02273	see Copper tubes, coils & solder fittings (Inch & Metric)
A02529	see Copper tubes, coils & solder fittings (Inch & Metric)
A02574	see Copper tubes, coils & solder fittings (Inch & Metric)
A02614	see Copper tubes, coils & solder fittings (Inch & Metric)
A02650	see Copper tubes, coils & solder fittings (Inch & Metric)
A02675	see Copper tubes, coils & solder fittings (Inch & Metric)
A02708	see Copper tubes, coils & solder fittings (Inch & Metric)
A03167	see Copper tubes, coils & solder fittings (Inch & Metric)
A03168	see Copper tubes, coils & solder fittings (Inch & Metric)
A03171	see Copper tubes, coils & solder fittings (Inch & Metric)
A07812	see Copper tubes, coils & solder fittings (Inch & Metric)
A07813	see Copper tubes, coils & solder fittings (Inch & Metric)
A07814	see Copper tubes, coils & solder fittings (Inch & Metric)
A07815	see Copper tubes, coils & solder fittings (Inch & Metric)
A07816	see Copper tubes, coils & solder fittings (Inch & Metric)
A07817	see Copper tubes, coils & solder fittings (Inch & Metric)
A07819	see Copper tubes, coils & solder fittings (Inch & Metric)
A-10971	see Tube working tools
A11205	see Copper tubes, coils & solder fittings (Inch & Metric)
A11206	see Copper tubes, coils & solder fittings (Inch & Metric)
A11207	see Copper tubes, coils & solder fittings (Inch & Metric)
A11216	see Copper tubes, coils & solder fittings (Inch & Metric)
A11217	see Copper tubes, coils & solder fittings (Inch & Metric)
A-3	see Automatic access valves & fittings
AA-HDS-36-B	see Service manifolds, gauges and charging hoses
AA-HDS-36-B/V	see Service manifolds, gauges and charging hoses
AA-HDS-36-R	see Service manifolds, gauges and charging hoses
AA-HDS-36-R/V	see Service manifolds, gauges and charging hoses
AA-HDS-36-Y	see Service manifolds, gauges and charging hoses
AA-HDS-36-Y/V	see Service manifolds, gauges and charging hoses
AA-HDS-60-B	see Service manifolds, gauges and charging hoses
AA-HDS-60-B/V	see Service manifolds, gauges and charging hoses
AA-HDS-60-R	see Service manifolds, gauges and charging hoses
AA-HDS-60-R/V	see Service manifolds, gauges and charging hoses
AA-HDS-60-Y	see Service manifolds, gauges and charging hoses
AA-HDS-60-Y/V	see Service manifolds, gauges and charging hoses
AA-HDS-72-B	see Service manifolds, gauges and charging hoses
AA-HDS-72-R	see Service manifolds, gauges and charging hoses
AA-HDS-72-Y	see Service manifolds, gauges and charging hoses
AC-BP	see Automatic access valves & fittings
AC-HP	see Automatic access valves & fittings
ACID-118	see Refrigeration accessories
ACK-001	see Fluid control components
ACK-003	see Fluid control components
ACK-004	see Fluid control components
ACK-004	see Fluid control components
ACK-004	see Fluid control components
ACK-004	see Fluid control components
ACK-004	see Fluid control components
ACK-004	see Fluid control components
ACK-005	see Fluid control components
ACK-007	see Fluid control components
ACK-007	see Fluid control components
ACK-007	see Fluid control components
ACK-008	see Fluid control components
ACK-008	see Fluid control components
ACT-6	see Tube working tools
ADP-0604	see Tube working tools
ADP-0608	see Tube working tools
AG-100	see Refrigeration accessories
AG-2	see Refrigeration accessories
AM-05	see Fluid control components





Part. nr.	Pdf file
HC-2341-1	see Electronic measurement and control instruments
HC-2341-150	see Electronic measurement and control instruments
HC-234-150	see Electronic measurement and control instruments
HC-2341-50	see Electronic measurement and control instruments
HC-234-50	see Electronic measurement and control instruments
HCT-212	see Tube working tools
HCT-B	see Tube working tools
HCTK-239	see Electronic measurement and control instruments
HCT-P	see Tube working tools
HCT-S	see Tube working tools
HDA-120-B	see Service manifolds, gauges and charging hoses
HDA-120-R	see Service manifolds, gauges and charging hoses
HDA-120-Y	see Service manifolds, gauges and charging hoses
HDA-36-B	see Service manifolds, gauges and charging hoses
HDA-36-R	see Service manifolds, gauges and charging hoses
HDA-36-R/410	see Service manifolds, gauges and charging hoses
HDA-36-Y	see Service manifolds, gauges and charging hoses
HDA-36-Y/410	see Service manifolds, gauges and charging hoses
HDA-60-B	see Service manifolds, gauges and charging hoses
HDA-60-R	see Service manifolds, gauges and charging hoses
HDA-60-R/410	see Service manifolds, gauges and charging hoses
HDA-60-Y	see Service manifolds, gauges and charging hoses
HDA-60-Y/410	see Service manifolds, gauges and charging hoses
HDA-72-B	see Service manifolds, gauges and charging hoses
HDA-72-R	see Service manifolds, gauges and charging hoses
HDA-72-Y	see Service manifolds, gauges and charging hoses
HDCS-36-B/410/V	see Service manifolds, gauges and charging hoses
HDCS-36-R/410/V	see Service manifolds, gauges and charging hoses
HDS-120-B/V	see Service manifolds, gauges and charging hoses
HDS-120-R/V	see Service manifolds, gauges and charging hoses
HDS-120-Y/V	see Service manifolds, gauges and charging hoses
HDS-12-B/V	see Service manifolds, gauges and charging hoses
HDS-12-R	see Service manifolds, gauges and charging hoses
HDS-12-R/V	see Service manifolds, gauges and charging hoses
HDS-12-Y	see Service manifolds, gauges and charging hoses
HDS-12-Y/V	see Service manifolds, gauges and charging hoses
HDS-36-B/V	see Service manifolds, gauges and charging hoses
HDS-36-R/V	see Service manifolds, gauges and charging hoses
HDS-36-R/V	see Service manifolds, gauges and charging hoses
HDS-36-Y/V	see Service manifolds, gauges and charging hoses
HDS-60-B/V	see Service manifolds, gauges and charging hoses
HDS-60-R/V	see Service manifolds, gauges and charging hoses
HDS-60-Y/V	see Evacuating and charging equipment
HDS-60-Y/V	see Evacuating and charging equipment
HDS-60-Y/V	see Service manifolds, gauges and charging hoses
HD56-12-B/V	see Service manifolds, gauges and charging hoses
HD56-12-R/V	see Service manifolds, gauges and charging hoses
HD56-12-Y/V	see Service manifolds, gauges and charging hoses
HD56-36-B	see Service manifolds, gauges and charging hoses
HD56-36-B/V	see Service manifolds, gauges and charging hoses
HD56-36-R	see Service manifolds, gauges and charging hoses
HD56-36-R/V	see Service manifolds, gauges and charging hoses
HD56-36-Y	see Service manifolds, gauges and charging hoses
HD56-36-Y/V	see Service manifolds, gauges and charging hoses
HD56-60-B	see Service manifolds, gauges and charging hoses
HD56-60-B/V	see Service manifolds, gauges and charging hoses
HD56-60-R	see Service manifolds, gauges and charging hoses
HD56-60-R/V	see Service manifolds, gauges and charging hoses
HD56-60-Y	see Service manifolds, gauges and charging hoses
HD56-60-Y/V	see Service manifolds, gauges and charging hoses
HD56-72-B	see Service manifolds, gauges and charging hoses
HD56-72-B/V	see Service manifolds, gauges and charging hoses
HD56-72-R	see Service manifolds, gauges and charging hoses
HD56-72-R/V	see Service manifolds, gauges and charging hoses
HD56-72-Y	see Service manifolds, gauges and charging hoses
HD56-72-Y/V	see Service manifolds, gauges and charging hoses
HDS-72-B/V	see Service manifolds, gauges and charging hoses
HDS-72-R/V	see Service manifolds, gauges and charging hoses
HDS-72-Y/V	see Service manifolds, gauges and charging hoses
HER-319	see Fluid control components
HNS4-04	see Forged brass & steel fittings "NPT" & "NPT 45" SAE"
HNS4-06	see Forged brass & steel fittings "NPT" & "NPT 45" SAE"
HNS4-08	see Forged brass & steel fittings "NPT" & "NPT 45" SAE"
HNS4-10	see Forged brass & steel fittings "NPT" & "NPT 45" SAE"
HNS4-12	see Forged brass & steel fittings "NPT" & "NPT 45" SAE"
HP-3700	see Fluid control components
HP-3701	see Fluid control components
HP-3702	see Fluid control components
HP-3703	see Fluid control components
HP-3704	see Fluid control components
HP-3706	see Fluid control components
HP-3738	see Fluid control components
HPBV-04P	see Fluid control components
HPBV-06MMP	see Fluid control components
HPBV-06P	see Fluid control components
HPBV-08P	see Fluid control components
HPBV-10MMP	see Fluid control components
HPBV-10P	see Fluid control components
HPBV-12MMP	see Fluid control components
HPBV-12P	see Fluid control components
HPBV-14P	see Fluid control components
HPBV-16MMP	see Fluid control components
HPBV-18P	see Fluid control components
HPBV-19MMP	see Fluid control components
HPBV-22MMP	see Fluid control components

Part. nr.		Pdf file
MF-1150C-048U	see	Fluid control components
MF-1150C-230U	see	Fluid control components
MF-1360C-110U	see	Fluid control components
MF-1900C-024U	see	Fluid control components
MF-4	see	Evacuating and charging equipment
MF-4+LP-4	see	Evacuating and charging equipment
MFF-S-02	see	Forged brass & steel fittings "NPT" & "NPT 45" SAE"
MFF-S-03	see	Forged brass & steel fittings "NPT" & "NPT 45" SAE"
MFF-S-04	see	Forged brass & steel fittings "NPT" & "NPT 45" SAE"
MFF-S-06	see	Forged brass & steel fittings "NPT" & "NPT 45" SAE"
MFF-S-08	see	Forged brass & steel fittings "NPT" & "NPT 45" SAE"
MFF-S-10	see	Forged brass & steel fittings "NPT" & "NPT 45" SAE"
MFF-S-12	see	Forged brass & steel fittings "NPT" & "NPT 45" SAE"
MFF-S-16	see	Forged brass & steel fittings "NPT" & "NPT 45" SAE"
MFF-S-20	see	Forged brass & steel fittings "NPT" & "NPT 45" SAE"
MFF-S-24	see	Forged brass & steel fittings "NPT" & "NPT 45" SAE"
MFF-S-32	see	Forged brass & steel fittings "NPT" & "NPT 45" SAE"
M-HDL-12-B	see	Service manifolds, gauges and charging hoses
M-HDL-12-R	see	Service manifolds, gauges and charging hoses
M-HDL-12-Y	see	Service manifolds, gauges and charging hoses
M-HDL-6	see	Evacuating and charging equipment
M-HDL-6-B	see	Service manifolds, gauges and charging hoses
M-HDL-6-R	see	Service manifolds, gauges and charging hoses
MI-CAP	see	Fluid control components
MIR-1	see	Service manifolds, gauges and charging hoses
MIR-1	see	Tube working tools
MIR-1R	see	Tube working tools
MIR-2	see	Tube working tools
MIR-2	see	Service manifolds, gauges and charging hoses
MIR-2R	see	Tube working tools
MIR-3	see	Tube working tools
MIR-3R	see	Tube working tools
MIR-4	see	Tube working tools
MIR-4R	see	Tube working tools
MIR-5	see	Tube working tools
MIR-5R	see	Tube working tools
MK-040-DS	see	Evacuating and charging equipment
MK-060-DS	see	Evacuating and charging equipment
MK-120-DS	see	Evacuating and charging equipment
MK-180-DS	see	Evacuating and charging equipment
MK-240-DS	see	Evacuating and charging equipment
MK-280-DS	see	Evacuating and charging equipment
M-MM-02	see	Forged brass & steel fittings "NPT" & "NPT 45" SAE"
M-MM-03	see	Forged brass & steel fittings "NPT" & "NPT 45" SAE"
M-MM-04	see	Forged brass & steel fittings "NPT" & "NPT 45" SAE"
M-MM-06	see	Forged brass & steel fittings "NPT" & "NPT 45" SAE"
M-MM-08	see	Forged brass & steel fittings "NPT" & "NPT 45" SAE"
M-MM-10	see	Forged brass & steel fittings "NPT" & "NPT 45" SAE"
M-MM-12	see	Forged brass & steel fittings "NPT" & "NPT 45" SAE"
M-MM-16	see	Forged brass & steel fittings "NPT" & "NPT 45" SAE"
MMS-200	see	Fluid control components
MMS-80	see	Fluid control components
MP-02	see	Refrigeration accessories
MP-02C	see	Refrigeration accessories
MP-03	see	Refrigeration accessories
MP-03C	see	Refrigeration accessories
MP-04	see	Refrigeration accessories
MP-04C	see	Refrigeration accessories
MP-06	see	Refrigeration accessories
MP-06C	see	Refrigeration accessories
MP-08	see	Refrigeration accessories
MP-08C	see	Refrigeration accessories
MP-12	see	Refrigeration accessories
MP-12C	see	Refrigeration accessories
MP-18	see	Refrigeration accessories
MP-18C	see	Refrigeration accessories
MPF-M10	see	Refrigeration accessories
MPF-M12	see	Refrigeration accessories
MPF-M16	see	Refrigeration accessories
MPR-M08	see	Refrigeration accessories
MPR-M10	see	Refrigeration accessories
MPR-M12	see	Refrigeration accessories
MPR-M16	see	Refrigeration accessories
MR-14-BH	see	Service manifolds, gauges and charging hoses
MR-14-RH	see	Service manifolds, gauges and charging hoses
MR-14-VK	see	Service manifolds, gauges and charging hoses
MR-14-VS	see	Service manifolds, gauges and charging hoses
MR-MM-032	see	Forged brass & steel fittings "NPT" & "NPT 45" SAE"
MR-MM-042	see	Forged brass & steel fittings "NPT" & "NPT 45" SAE"
MR-MM-043	see	Forged brass & steel fittings "NPT" & "NPT 45" SAE"
MR-MM-064	see	Forged brass & steel fittings "NPT" & "NPT 45" SAE"
MR-MM-082	see	Forged brass & steel fittings "NPT" & "NPT 45" SAE"
MR-MM-084	see	Forged brass & steel fittings "NPT" & "NPT 45" SAE"
MR-MM-086	see	Forged brass & steel fittings "NPT" & "NPT 45" SAE"
MR-MM-106	see	Forged brass & steel fittings "NPT" & "NPT 45" SAE"
MR-MM-108	see	Forged brass & steel fittings "NPT" & "NPT 45" SAE"
MS-04	see	Fluid control components
MS-06	see	Fluid control components
MS-08	see	Fluid control components
MS-10	see	Fluid control components
MS-12	see	Fluid control components
MS-14	see	Fluid control components
MS-18	see	Fluid control components
MS-22	see	Fluid control components
MS-26	see	Fluid control components

Part. nr.	Pdf file
MS-34	see Fluid control components
MSK-08	see Tube working tools
MSSK-26	see Tube working tools
MT-02	see Forged brass & steel fittings "NPT" & "NPT 45" SAE"
MT-03	see Forged brass & steel fittings "NPT" & "NPT 45" SAE"
MT-04	see Forged brass & steel fittings "NPT" & "NPT 45" SAE"
MT-06	see Forged brass & steel fittings "NPT" & "NPT 45" SAE"
MT-08	see Forged brass & steel fittings "NPT" & "NPT 45" SAE"
MT-10	see Forged brass & steel fittings "NPT" & "NPT 45" SAE"
MT-12	see Forged brass & steel fittings "NPT" & "NPT 45" SAE"
MT-16	see Forged brass & steel fittings "NPT" & "NPT 45" SAE"
MT-20	see Forged brass & steel fittings "NPT" & "NPT 45" SAE"
MT-24	see Forged brass & steel fittings "NPT" & "NPT 45" SAE"
MTS-04	see Fluid control components
MTS-06	see Fluid control components
MTU-06	see Copper tubes, coils & solder fittings (Inch & Metric)
MTU-08	see Copper tubes, coils & solder fittings (Inch & Metric)
MTU-10	see Copper tubes, coils & solder fittings (Inch & Metric)
MTU-12	see Copper tubes, coils & solder fittings (Inch & Metric)
MTU-15	see Copper tubes, coils & solder fittings (Inch & Metric)
MTU-16	see Copper tubes, coils & solder fittings (Inch & Metric)
MTU-18	see Copper tubes, coils & solder fittings (Inch & Metric)
MTU-22	see Copper tubes, coils & solder fittings (Inch & Metric)
MTU-28	see Copper tubes, coils & solder fittings (Inch & Metric)
MTU-35	see Copper tubes, coils & solder fittings (Inch & Metric)
MULTI-R-COMBI/V2	see Evacuating and charging equipment
MV-0077	see Automatic access valves & fittings
MV-0099	see Automatic access valves & fittings
MV-0101	see Automatic access valves & fittings
MV-0111	see Automatic access valves & fittings
MV-1010	see Automatic access valves & fittings
MV-1050	see Automatic access valves & fittings
MV-1060	see Automatic access valves & fittings
MV-1080	see Automatic access valves & fittings
MV-1200	see Automatic access valves & fittings
MV-1212	see Automatic access valves & fittings
MV-1414	see Automatic access valves & fittings
MV-1414C	see Automatic access valves & fittings
MV-1428	see Automatic access valves & fittings
MV-1438	see Automatic access valves & fittings
MV-1440	see Automatic access valves & fittings
MV-1441	see Automatic access valves & fittings
MV-1444	see Automatic access valves & fittings
MV-1446	see Automatic access valves & fittings
MV-1454	see Automatic access valves & fittings
MV-1777	see Automatic access valves & fittings
MV-1808	see Automatic access valves & fittings
MV-1818	see Automatic access valves & fittings
MV-1818C	see Automatic access valves & fittings
MV-2000	see Automatic access valves & fittings
MV-2010	see Automatic access valves & fittings
MV-2010 (QC-E4)	see Automatic access valves & fittings
MV-2012	see Automatic access valves & fittings
MV-2014	see Automatic access valves & fittings
MV-2018	see Automatic access valves & fittings
MV-2019	see Automatic access valves & fittings
MV-2020	see Automatic access valves & fittings
MV-2022	see Automatic access valves & fittings
MV-2022	see Automatic access valves & fittings
MV-2024	see Automatic access valves & fittings
MV-2028	see Automatic access valves & fittings
MV-2035	see Automatic access valves & fittings
MV-2037	see Automatic access valves & fittings
MV-2038	see Automatic access valves & fittings
MV-2041	see Automatic access valves & fittings
MV-2050	see Automatic access valves & fittings
MV-2060	see Automatic access valves & fittings
MV-2070	see Automatic access valves & fittings
MV-2070	see Automatic access valves & fittings
MV-2090	see Automatic access valves & fittings
MV-2094	see Automatic access valves & fittings
MV-2098	see Automatic access valves & fittings
MV-2120	see Automatic access valves & fittings
MV-2140	see Automatic access valves & fittings
MV-2160	see Automatic access valves & fittings
MV-2210	see Automatic access valves & fittings
MV-2215	see Automatic access valves & fittings
MV-2216	see Automatic access valves & fittings
MV-2219	see Automatic access valves & fittings
MV-2220	see Automatic access valves & fittings
MV-2225	see Automatic access valves & fittings
MV-2235	see Automatic access valves & fittings
MV-2243	see Automatic access valves & fittings
MV-2245	see Automatic access valves & fittings
MV-2245	see Forged brass & steel fittings "NPT" & "NPT 45" SAE"
MV-2250	see Automatic access valves & fittings
MV-2380	see Automatic access valves & fittings
MV-2500	see Automatic access valves & fittings
MV-2525	see Automatic access valves & fittings
MV-2540	see Automatic access valves & fittings
MV-2541	see Automatic access valves & fittings
MV-2542	see Automatic access valves & fittings
MV-2580	see Automatic access valves & fittings
MV-2594	see Automatic access valves & fittings
MV-2595	see Automatic access valves & fittings

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Part. nr.	Pdf file
SUNISO-4GS-20	see Refrigeration accessories
SUNISO-5G-04	see Refrigeration accessories
SUNISO-SL32-04	see Refrigeration accessories
SUPER-3790	see Refrigeration accessories
SUPER-947	see Refrigeration accessories
SV2W-38/110	see Evacuating and charging equipment
SV2W-38/220	see Evacuating and charging equipment
SV2W-38/627-VRP-110	see Evacuating and charging equipment
SV2W-38/627-VRP-220	see Evacuating and charging equipment
SWM-4D-41	see Tube working tools
T1-04A	see Forged brass & steel fittings "NPT" & "NPT 45" SAE
T1-04B	see Forged brass & steel fittings "NPT" & "NPT 45" SAE
T1-04C	see Forged brass & steel fittings "NPT" & "NPT 45" SAE
T1-06B	see Forged brass & steel fittings "NPT" & "NPT 45" SAE
T1-06C	see Forged brass & steel fittings "NPT" & "NPT 45" SAE
T1-08C	see Forged brass & steel fittings "NPT" & "NPT 45" SAE
T1-08D	see Forged brass & steel fittings "NPT" & "NPT 45" SAE
T1-10C	see Forged brass & steel fittings "NPT" & "NPT 45" SAE
T1-10D	see Forged brass & steel fittings "NPT" & "NPT 45" SAE
T2-04	see Forged brass & steel fittings "NPT" & "NPT 45" SAE
T2-05	see Forged brass & steel fittings "NPT" & "NPT 45" SAE
T2-06	see Forged brass & steel fittings "NPT" & "NPT 45" SAE
T2-08	see Forged brass & steel fittings "NPT" & "NPT 45" SAE
T2-10	see Forged brass & steel fittings "NPT" & "NPT 45" SAE
T2-12	see Forged brass & steel fittings "NPT" & "NPT 45" SAE
T3-04A	see Forged brass & steel fittings "NPT" & "NPT 45" SAE
T3-04B	see Forged brass & steel fittings "NPT" & "NPT 45" SAE
T3-06B	see Forged brass & steel fittings "NPT" & "NPT 45" SAE
T3-08D	see Forged brass & steel fittings "NPT" & "NPT 45" SAE
T3-10D	see Forged brass & steel fittings "NPT" & "NPT 45" SAE
T3-12E	see Forged brass & steel fittings "NPT" & "NPT 45" SAE
T3F-02	see Forged brass & steel fittings "NPT" & "NPT 45" SAE
T3F-03	see Forged brass & steel fittings "NPT" & "NPT 45" SAE
T3F-04	see Forged brass & steel fittings "NPT" & "NPT 45" SAE
T3F-06	see Forged brass & steel fittings "NPT" & "NPT 45" SAE
T3F-08	see Forged brass & steel fittings "NPT" & "NPT 45" SAE
T3F-10	see Forged brass & steel fittings "NPT" & "NPT 45" SAE
T3F-12	see Forged brass & steel fittings "NPT" & "NPT 45" SAE
T3F-16	see Forged brass & steel fittings "NPT" & "NPT 45" SAE
T3F-S-02	see Forged brass & steel fittings "NPT" & "NPT 45" SAE
T3F-S-03	see Forged brass & steel fittings "NPT" & "NPT 45" SAE
T3F-S-04	see Forged brass & steel fittings "NPT" & "NPT 45" SAE
T3F-S-06	see Forged brass & steel fittings "NPT" & "NPT 45" SAE
T3F-S-08	see Forged brass & steel fittings "NPT" & "NPT 45" SAE
T3F-S-10	see Forged brass & steel fittings "NPT" & "NPT 45" SAE
T3F-S-12	see Forged brass & steel fittings "NPT" & "NPT 45" SAE
T3F-S-16	see Forged brass & steel fittings "NPT" & "NPT 45" SAE
T3F-S-20	see Forged brass & steel fittings "NPT" & "NPT 45" SAE
T3F-S-24	see Forged brass & steel fittings "NPT" & "NPT 45" SAE
TE-6	see Forged brass & steel fittings "NPT" & "NPT 45" SAE
TAHL-5	see Electronic measurement and control instruments
TB-03	see Tube working tools
TB-06	see Tube working tools
TB-06	see Service manifolds, gauges and charging hoses
TB-16	see Tube working tools
TB-16	see Service manifolds, gauges and charging hoses
TB-364-04	see Tube working tools
TB-364-05/8mm	see Tube working tools
TB-364-05/8mm	see Tube working tools
TB-364-06	see Tube working tools
TB-364-06mm	see Tube working tools
TB-364-08	see Tube working tools
TB-364-10	see Tube working tools
TB-364-10mm	see Tube working tools
TB-364-12	see Tube working tools
TB-364-12/H	see Tube working tools
TB-364-12mm	see Tube working tools
TB-364-15mm	see Tube working tools
TB-364-16mm	see Tube working tools
TC-0316	see Tube working tools
TC-0316-H	see Tube working tools
TC-0328	see Tube working tools
TC-0328-H	see Tube working tools
TC-0432-ZR	see Tube working tools
TC-0432-ZRH	see Tube working tools
TC-0638-R	see Tube working tools
TC-0638-RH	see Tube working tools
TC-1000	see Tube working tools
TC-1000-SP	see Tube working tools
TC-10168-Z	see Tube working tools
TC-10168-ZC	see Tube working tools
TC-1020	see Tube working tools
TC-1050	see Tube working tools
TC-1050-SP	see Tube working tools
TC-127	see Service manifolds, gauges and charging hoses
TC-127	see Tube working tools
TC-2050	see Tube working tools
TC-206	see Tube working tools
TC-274	see Service manifolds, gauges and charging hoses
TC-274	see Service manifolds, gauges and charging hoses
TC-274	see Tube working tools
TC-274	see Service manifolds, gauges and charging hoses
TC-307	see Service manifolds, gauges and charging hoses
TC-307	see Tube working tools
TC-312	see Tube working tools

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Part. nr.	Pdf file
VASC-10 mm	see Fluid control components
VASC-11	see Fluid control components
VASC-12 mm	see Fluid control components
VASC-16 mm	see Fluid control components
VASC-18 mm	see Fluid control components
VASC-22 mm	see Fluid control components
VASC-28 mm	see Fluid control components
VASC-35 mm	see Fluid control components
VASC-42 mm	see Fluid control components
VASC-54 mm	see Fluid control components
VASC-82	see Fluid control components
VASC-83	see Fluid control components
VASC-84	see Fluid control components
VASC-85	see Fluid control components
VASC-86	see Fluid control components
VG-10	see Tube working tools
VG-12	see Tube working tools
VG-12ING	see Tube working tools
VG-14	see Tube working tools
VG-14G	see Tube working tools
VG-14I	see Tube working tools
VG-15	see Tube working tools
VG-16	see Tube working tools
VG-17	see Tube working tools
VG-18	see Tube working tools
VG-19	see Tube working tools
VN—05-13/1056/V2	see Refrigeration accessories
VN—10-20/1103/V2	see Refrigeration accessories
VNT—18-30/46/V2	see Refrigeration accessories
VNT—25-40/25/V2	see Refrigeration accessories
VNT—34-45/25/V2	see Refrigeration accessories
VOC-10	see Tube working tools
VOC-10	see Fluid control components
VOC-15	see Tube working tools
VOC-15	see Fluid control components
VOC-18	see Tube working tools
VOC-18	see Fluid control components
VPC-40	see Evacuating and charging equipment
VPP-40	see Evacuating and charging equipment
VT-400	see Evacuating and charging equipment
W3-V-80	see Service manifolds, gauges and charging hoses
WA-1000	see Tube working tools
WB-1	see Tube working tools
WBO-100	see Refrigeration accessories
WBO-100N	see Refrigeration accessories
WBO-120	see Refrigeration accessories
WBO-120N	see Refrigeration accessories
WBO-150R	see Refrigeration accessories
WBO-250	see Refrigeration accessories
WBO-K10	see Refrigeration accessories
WBO-K10N	see Refrigeration accessories
WBO-K12	see Refrigeration accessories
WBO-K12N	see Refrigeration accessories
WBO-K15	see Refrigeration accessories
WBO-K15R	see Refrigeration accessories
WBO-K25	see Refrigeration accessories
WCP-010/230V	see Refrigeration accessories
WCP-020/230V	see Refrigeration accessories
WDT-128 BODY	see Electronic measurement and control instruments
WDT-128C	see Electronic measurement and control instruments
WDT-128R	see Electronic measurement and control instruments
WKL-5	see Tube working tools
WM-80-B	see Service manifolds, gauges and charging hoses
WM-80-R	see Service manifolds, gauges and charging hoses
WPP-9	see Tube working tools
WS-005	see Electronic measurement and control instruments
WS-005-1L-1/4	see Electronic measurement and control instruments
WS-005-1L-5/16	see Electronic measurement and control instruments
WS-005-1L-7/16	see Electronic measurement and control instruments
WS-055	see Electronic measurement and control instruments
WS-150	see Electronic measurement and control instruments
WS-30	see Evacuating and charging equipment
WS-AC	see Electronic measurement and control instruments
WS-AC-EU	see Electronic measurement and control instruments
WS-AC-UK	see Electronic measurement and control instruments
WS-AC-USA	see Electronic measurement and control instruments
WS-ASV	see Electronic measurement and control instruments
WT-389	see Electronic measurement and control instruments
WT-389/P	see Electronic measurement and control instruments
XLD-6050	see Electronic measurement and control instruments
XPC-06M	see Tube working tools
XPC-07I	see Tube working tools
XPC-T	see Tube working tools
ZERICE	see Refrigeration accessories
ZEROL-150-5L	see Refrigeration accessories