



HVAC Tools Catalogue: Your One-Stop Shop for Quality HVAC Solutions



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MAINTENANCE CHEMICALS

Advanced SOLUTIONS



Steri-Clean Evaporator Cleaner & Disinfectant

Steri-Clean is a two in one product combining powerful cleaning with effective sanitizing for evaporator coils and all surfaces not affected by water. It's highly effective cleaning action means your system is working to full efficiency whilst its sanitizing effect ensures total hygiene.

SKU: 446150/A

Brand: ADVANCED SOLUTIONS



Brightfoam Brightfoam Condenser Cleaner & Sanitiser

Brightfoam is a very powerful alkaline detergent/sanitiser designed for the heavy duty cleaning of condenser coils, it's unique formulation cleaning even the most stubborn baked on deposits

SKU: 446150B

Brand: ADVANCED SOLUTIONS



Case-Clean Case Cleaner for Inside and Outside

Case-Clean is a case and diffuser cleaner specially formulated to remove grease, dirt and grime from inside and outside air-conditioning units leaving the workplace clean and tidy. Excellent at removing dirty fingerprints and other marks after maintenance and servicing. Can be used on all hard surfaces not affected by water as a general cleaner.

SKU: 446151B

Brand: ADVANCED SOLUTIONS



Drain-Clear Condensate Drain Cleaner

Drain-Clear is a high strength alkaline product that breaks down grease that has built up on pipe surfaces. This allows hair and other clogging items to be flushed away. It can also be used as part of regular maintenance program.

SKU: 446151C

Brand: ADVANCED SOLUTIONS



Odour-Kill Odour Control

Odour-Kill removes the source of bad odours and unpleasant smells from A/C systems, extractor fans and ducting. It uses micro-organisms to biologically breakdown organic materials that cause bad odours.

SKU: 446151

Brand: ADVANCED SOLUTIONS



StayClean™ Mini Tablets CONDENSATE TRAY BACTERIAL CONTROL

- Controls odours
- Reduces sludge build-up
- Minimises risk of blockages
- Up to 8 weeks protection

SKU: 446033A

Brand: ADVANCED



DrainKleen® one shot CONDENSATE DRAIN CLEANER & UNBLOCKER

- Clears common blockages
- User friendly design for hard to reach areas

SKU: 446107

Brand: ADVANCED



EasyFresh™ ODOUR NEUTRALISER FOR AC SYSTEMS

- Specifically designed for air conditioning units
- Eliminates odours
- Produces a long-lasting fresh scent

SKU: 446104

Brand: ADVANCED



3.78 litres

SKU: 446038

Evap Pow'r Evaporator Coil Cleaner

Evap Pow'r is a no-rinse, biodegradable cleaner for indoor evaporator coils. This slightly alkaline, green liquid is safe for metal surfaces and effectively emulsifies tough soils and deposits. NSF A1/K4 registered, it's also suitable for use in food processing environments. The ultra-concentrate version of Evap Pow'r requires a 3:1 water dilution, providing heavy-duty cleaning power in a compact form that reduces storage space and weight by 75%—ideal for transport. It can be used with Nu-Calgon's Coil Gun at a 10:1 (setting E) dilution for convenience.

Brand: NU-CALGON



3.78 litres

SKU: 446035

Nu-Brite Condenser Coil Cleaner

Nu-Brite is a non-acid, alkaline-based cleaner designed to clean and brighten air-cooled condensers and outdoor finned coils. Using advanced foaming detergents and chelants, it quickly dissolves and foams out greasy dirt and grime without the hazards of acid cleaners. Its powerful foaming action lifts grime from hard-to-reach areas, restoring peak efficiency. This product is not recommended for indoor use.

Brand: NU-CALGON



SKU: 446037

Evap Foam “no rinse”

Evap Foam “no rinse” is a powerful, heavy-duty aerosol detergent formulated with specialized surfactants and alkaline cleaners to clean cooling and evaporator coils without rinsing. The foaming product liquefies dirt, grease, and other residues efficiently, and it can be sprayed in any direction. Fortified with corrosion inhibitors, it is safe for metals and other surfaces, and the foam naturally rinses itself off, removing emulsified dirt. NSF-registered, Evap Foam leaves a pleasant lemon scent, deodorizing the area as it cleans.

Brand: NU-CALGON



SKU: 446070

Healthy Air Preventing Bacteria and Mold in Air Conditioner

Disperse bad odors and prevent Air Conditioner's Bacteria. Suitable for all type of Air Conditioners and Air cooling Systems. Suitable for cold or hot temperatures. The use of “Healthy Air” guarantees healthier air. Free from germs, protects your air conditioner giving it a long life.

MAINTENANCE CHEMICALS



JAB

Scented Cleaner for AC/R systems and Plastics

Jab is a fast-acting scented cleaner that acts in just 5 minutes. It allows you to quickly clean and degrease the most delicate surfaces without damaging them. The concentrated formula, absolutely safe for the technician, can be diluted with water up to a ratio of 1:5, depending on the level of the dirt to be removed. Jab is HACCP-compliant and releases a pleasant scent.

SKU: 446128/A

Brand: ERRECOM



Chisel

Condenser Cleaner with Anticorrosion Power

The Condenser Cleaner with Anticorrosion Power CHISEL is a product of rapid application and effectiveness to treat outdoor units, efficient as an acid cleaner but more safe.

Easily removes organic residues, grease, stubborn dirt and corrosion, preventing even its new formation. It is the ideal product to restore neglected systems or facilities subjects to strong environmental aggressions.

SKU: 446124/5

Brand: ERRECOM



BEST Bubbles

Refrigerant Gas Leak Detector

Best Bubbles is a leak detector developed to quickly identify refrigerant microleaks on refrigerant lines and AC/R components. Best Bubbles must be used while the system is running or is under pressure and can also be applied on pipes with extreme temperatures from -40°C to +80°C.

It allows the technician to immediately detect leaks through the formation of large and thick bubbles. The spray bottle makes it possible to deliver the product at precise points to better highlight micro-leaks.

SKU: 446136 & 446131

Brand: ERRECOM



Evaporator Cleaner Foam

Foam Purifying Cleaner for Evaporators

EVAPORATOR CLEANER FOAM is a foam purifying treatment to clean the air distribution duct of the air conditioner, incorporating and expelling all contaminating particles that can affect the quality of the air itself.

It removes dust, dirt, allergens and micro-organisms that can affect the air quality, create unpleasant smells and allergic reactions. It removes unpleasant smells leaving a pleasant fragrance of cleanliness.

SKU: 446123

Brand: ERRECOM



Monsoon

Purifying Treatment for Interiors and Filters

MONSOON is a large-scale purifying and perfuming treatment, useful for purifying filters and perfuming large environments. Its powerful spray energetically spreads the fragrance on the surfaces and among the filter textures. The fragrances selected by Errecom have great persistence and guarantee a long life

SKU: 446134/5/5A/5B

Brand: ERRECOM

Use biocides safely. Always read the label and product information before use.

FLUSHING



Belnet Aerosol/Fluid

Quick Evaporating Flushing Fluid in Aerosol Can

SKU: 446132/A

SKU: 446133 (FLUSH GUN)

SKU: 446133A (FLUSH GUN WITH HOSE AND VALVE)

Belnet is a flammable flushing fluid specially formulated for cleaning refrigerant lines in AC/R systems, particularly small ones. It removes all grease, dust and lubricant residues. Ready to use, it does not require additional equipment for insertion.

Brand: ERRECOM



SAFENET

Quick Evaporating and Non Flammable Flushing Fluid

SKU: 446130

SAFENET is a refrigerant flushing fluid with a high evaporation level, designed to be used in all air conditioning systems.

SAFENET has a low boiling point, low heat of evaporation, excellent solvent retention, low surface tension, non-flammability, chemical, and thermal stability.

Brand: ERRECOM

CLEANING MACHINES

C30S & C35S Steam Cleaning Machine

C30S
Dimensions: LxWxH: 380x290x290mm



The C30S is a versatile air conditioner cleaning device with five modes: steam, hot water, cold water, pulse, and ozone treatment. It features an LCD touch screen and voice alerts. The steam reaches 130 °C –150 °C , while hot water heats to 60–85 °C at 3–6 bar pressure, ensuring safe use on air conditioners. The ozone treatment kills 99.9% of microorganisms and eliminates odors. The device comes with various professional accessories for thorough cleaning, including a 90° bent spray nozzle, nylon brush, long steam nozzle, and 220° rotational spray nozzle.

C35S
Dimensions: LxWxH: 412.6x312x357mm



BRAND: WIPCOOL

C40T Adjustable High Pressure Cleaning Machine

Dimensions: LxWxH: 340x288x290mm



The C40T is a professional cleaning tool for commercial and industrial HVAC equipment, featuring an easy-to-use knob to select pressure between 10 and 40 bar for precise dirt removal from hard-to-reach areas. It includes various professional accessories such as a foaming set, foam nozzle, two 36cm extension wands, and a 220° rotational nozzle for thorough cleaning. The machine has an integrated storage design for accessories, is compact, lightweight, and easy to carry.

BRAND: WIPCOOL

C10 Coil Cleaning Machine

Dimensions: LxWxH: 336x234x266mm



The C10 is a professional air conditioning coil cleaning machine that operates on AC power and offers adjustable pressure modes: low (3-5 bar) and high (7-10 bar). The pressure is easily adjusted via a top button, ensuring safe cleaning of indoor and outdoor coils. It features a self-priming function for use with an external water tank, addressing water source issues. The machine comes with various professional cleaning accessories, including a 220° rotating nozzle with a 37cm extension wand for cleaning narrow gaps. It is lightweight, portable, and can be carried with one hand.

BRAND: WIPCOOL

ACCESSORY FOR HIGH PRESSURE CLEANING MACHINES



- Easy to install, 1/4" quick connection plug to pressure washer gun or wand.
- Adjustable nozzle for accurate mixing and foam generation
- Ideal for HVAC coil cleaning

BRAND: WIPCOOL

Technical Data:

SKU: 446016/AA

Model:	C30S		C35S	
Voltage	230V~/50-60Hz	100-120V~/50-60Hz	230V~/50-60Hz	100-120V~/50-60Hz
Power(Max.)	3300W	2000W	2800W	2000W
Flow rate (Max.)	3L/min		5L/min(cool water)	
Working Pressure(Max.)	3~6bar		10/30 bar(dual)	
Suction Lift(Max.)	1.5m		1.0m	
Steam Temp.	130~150°C	120~130°C	130~150°C	120~130°C
Water Outlet Temp.(Max.)	60~85°C	50~75°C	50~60°C	45~55°C
Water Pipe	2M Inlet hose,4M Outlet hose		1.5m Inlet hose,4.0m Outlet hose	



Technical Data:

SKU: 446016B

Model	C40T
Voltage	230V~/50-60Hz or 100-120V/50-60Hz
Working Pressure	10-40bar
Flow Rate(Max.)	6L/min
Motor Power	1HP
Weight	8.0kg
Water Pipe	2m inlet hose, 7m outlet Hose



Technical Data:

SKU: 446016D

Model	C10
Voltage	230V~/50-60Hz or 100-120V~/50-60Hz
Working Pressure	3-5 / 7-10 bar(Dual)
Flow Rate (Max.)	4L/min
Motor Power	100W
Weight	3.7kg
Inlet Hose	2.5m
Outlet Hose	5.0m



Technical Data:

SKU: 446016X

Model	C1FC
Tank Capacity	1L
Connection Size	1/4"
Suitable For	C28T,C28B,C40T,C35S,C110T

CLEANING MACHINES WITH BATTERY

C2BW Hand-helder Electric



The C2BW hand-held electric sprayer is made of high-density polyethylene, resistant to strong acids and alkaline substances. It features a built-in 3.7V/2200mAh Li-ion battery, making it a perfect replacement for manual sprayers. The adjustable spray nozzle offers a range of spray patterns, making it suitable for applying coil cleaners to air conditioning cooling coils, air-cooled condensers, finned heating coils, refrigeration case or cooler coils, permanent air filters, and other greasy, dirty surfaces.

BRAND: WIPCOOL

C10BW Integrated Coil Cleaning Machine

Dimensions: LxWxH: 412x282x568mm



The integrated coil cleaning machine C10BW is ideal for cleaning in locations where water and power may be inaccessible. It is powered by AC power or 18V lithium battery, and has 6 battery adapters(optional) for your choice, you can use your own batteries if your battery compatible any one in these 6 adapters.

BRAND: WIPCOOL

Technical Data:

SKU: 446016G

Model	C2BW
Voltage	3.7V(2200mAh)
Optimum Spray Distance	0.5-3m
Tank Capacity	2L
Nozzle Spray Sizes	0.3L/min(mist), 0.5L/min(water column)
Reference Running Time	2 hours
Reference Charging Time	2-3 hours

SPARE PARTS & ACCESSORIES:

O-RING 9X5X2

WASHER



SKU: 446016H



SKU: 446016I

Technical Data:

SKU: 446016F

Model	C10BW
Voltage	18V(AEG/RIDGID interface)
Pressure	3-5 / 7-10 bar(Dual)
Flow rate(Max.)	4L/min
Reference Running time	50-120mins(4.0AhLi-ion battery)
Reference Charging time	210mins(4.0AhLi-ion battery)
Motor Power	80W
Tank Capacity	18L clean water tank + 2L chemical tank
Outlet Hose	5m
Weight(dry)	6.6kg(w/o battery)

SPARE PARTS & ACCESSORIES:

5M OUTLET HOSE

NOZZLE 0°

37cm EXTENSION WAND

ROTATIONAL NOZZLE 220°

SPRAY GUN

FOAMING NOZZLE



SKU:446016S



SKU: 446016N



SKU: 446016Q



SKU: 446016O



SKU: 446016P



SKU:446016T

C10B Cordless/ With battery Coil Cleaning Machine

Dimensions: LxWxH: 336x234x266mm



The C10B is a professional cordless air conditioning cleaning machine that operates in low (3-5 bar) and high (7-10 bar) pressure modes, adjustable via a top button. It features a self-priming function for use with an external water tank and comes with various cleaning accessories, including a 220° rotating nozzle with a 37cm extension wand for cleaning narrow gaps. Lightweight and portable, it runs on an 18V Li-ion battery, eliminating the need for AC power sources, especially for outdoor units. Additionally, it supports adapters for six major battery brands (Bosch, Makita, Panasonic, Dewalt, Worx, and Milwaukee) to maximize the use of existing batteries and reduce costs.

BRAND: WIPCOOL

Technical Data:

SKU: 446016E

Model	C10B
Voltage	18V(AEG/RIDGID interface)
Working Pressure	3-5 / 7-10 bar(Dual)
Flow Rate (Max.)	4L/min
Motor Power	80W
Weight	3.7kg(w/o battery)
Inlet Hose	2.5m
Outlet Hose	5.0m
Reference Running Time	50-120mins (4.0Ah Li-ion battery)
Reference Charging Time	210mins(4.0Ah Li-ion battery)

SPARE PARTS & ACCESSORIES:

5M OUTLET HOSE

NOZZLE 0°

37cm EXTENSION WAND

ROTATIONAL NOZZLE 220°

SPRAY GUN



SKU:446016S



SKU: 446016N



SKU: 446016Q



SKU: 446016O



SKU: 446016P

C28B Crankshaft-driven Cordless Cleaning Machine

Dimensions: LxWxH: 376x226x250mm



Variable pressure(5-20bar) for optimal flexibility to meet the different occasions. Crankshaft-driven pump with ceramic-coated pistons for long service life. Large oil level sight glass, easily accessible to check oil status, and ready for oil change in time for maintenance. Li-ion battery powered, get rid of site power limitations.

BRAND: WIPCOOL

Technical Data:

SKU: 446016C

Model	C28B
Voltage	18V(AEG/RIDGID interface)
Working Pressure	7/20bar
Flow Rate(Max.)	4.5 L/min
Output Power	1/2HP
Weight	5.0kg
Water Pipe	2m inlet hose, 7m outlet Hose
Reference Running Time	30-45min(18V/9.6Ah)
Remarks	Due to the strict transportation terms, we can not include any Li-ion battery, you can choose our battery adapters for use your own batteries.

BC-18 Corded Battery Converter



SKU: 448003S

Battery Adapter

SKU: 448003O/ 448003P/448003L/ 448003M/ 448003N



Milwaukee



DeWalt



Bosch



Makita



Panasonic

DRAIN PUMPS

P12 Slim Mini-split Condensate Pump

Dimensions: LxWxH: 154x34x30mm
LxWxH: 85x40x48.3mm



The P12 condensate pump adopts slim body design, it is the WIPCOOL's slimmest mini pump. Specially design for narrow spaces, it is mainly installed in back interior of split air conditioners. It also can be applied in ducted air conditioner, cassette air conditioner. Suitable for the device which cooling capacity under 30,000 btu/hr.

BRAND: WIPCOOL

P16 Mini-split Condensate Pump

Dimensions: LxWxH: 126x47x53mm
LxWxH: 126x47x53mm



The P16 mini split condensate pump is used in ducted air conditioner, suitable for device which cooling capacity under 45,000btu/hr. Adopting a brush-less motor and built-in safety switch, ensuring that the pump can operate silently for a long time and guarantee the safety drainage.

Technical Data:

SKU: 446015E/G

Model:	P12	P16
Voltage	100-230V/50-60Hz	
Suction lift (Max.)	2m (6.5ft)	
Discharge Head (Max.)	7m(23ft)	10m (33ft)
Flow rate (Max.)	12L/h(3.2GPH)	16L/h(4.2GPH)
Tank Capacity	35ml	
Mini Splits up to	30,000btu/hr	
Sound Level at 1m	19dB (A)	
Ambient Temp.	0°C-50°C	

P380 Low Profile Tank Condensate Pump

Dimensions: LxWxH: 270.5x148x119mm



The P380 tank pump provides the most economical solution when face the a drainage demand of lift within 7 meters and flow rate within 400L/h. Suitable for the device which cooling capacity under 500,000 btu/hr. Adopting a high performance water pump, built-in safety switch and probe level sensor. Make sure the pump can make the reliable running for a long time. In addition, this pump is only 119mm height, so it's a good fit for those instances where space is at a premium.

BRAND: WIPCOOL

Technical Data:

SKU: 446015N

Model	P380
Voltage	100V-230V-/50-60Hz
Discharge Head(Max.)	6.8m(22ft)
Flow Rate(Max.)	380L/h(100GPH)
Tank Capacity	1.8L
Sound Level at 1m	28dB(A)
Ambient Temp.	0°C-50°C
Power Consumption	20W

M1/M2 Condensate Pump



BRAND: VALUE

Ultra-Quiet DC Motor

- Quiet operation

Large Capacity Tank

- Reducing work times and extending life

Electrode water level sensor

Easy Maintenance

- Snap-on structure, easy disassembling and cleaning of water tank

Technical Data:

SKU: 446055/55A

Model:	M1	M2
Voltage	100-240V/50-60Hz	100-240V/50-60Hz
Discharge head (Max.)	12m / 39ft	12m / 39ft
Flow rate (Max.)	24L/h 6.4 US GPH	40L/h 10.6 US GPH
Effective water tank capacity	200ml	200ml
Unit output (Max.)	9kW 30000btu/h	13kW 45000btu/h
Noise at 1m	19dB(A)	21dB(A)
Applicable ambient temperature	0°C-50°C	0°C-50°C

S1/S2 Mini Condensate Pump



BRAND: VALUE

Ultra-Quiet DC Motor

- Quiet operation

Built-in Filter

- Effectively filter impurities and prevent blockage

Mini Design

Easy Maintenance

- Snap-on structure, easy disassembling and cleaning of water tank

Technical Data:

SKU: 446055B/55C

Model:	S1	S2
Voltage	100-240V/50-60Hz	100-240V/50-60Hz
Discharge head (Max.)	10m / 33ft	10m / 33ft
Flow rate (Max.)	24L/h & 6.4 US GPH	40L/h & 10.6 US GPH
Effective water tank capacity	5ml	5ml
Unit output (Max.)	(9kW/30000btu.h)	(13kW/45000btu.h)
Noise at 1m	19dB(A)	21dB(A)
Applicable ambient temperature	0°C-50°C	0°C-50°C

DRAIN PUMPS

COMBI Condensate Pump

Dimensions: NET: LxWxH: 164X48X41mm
GROSS: LxWxH: 334X250X51mm



BRAND: REFCO

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

Standards
EN 60335-1, EN 60335-2-41, UL778 CSA C22.2

Technical Data:

SKU: 446058

Model:	COMBI
Max. Flow Capacity	42 l/h
Max Delivery Head	20m
Noise Level	19 dB(A)
Max. Suction Head	3 m
Tube Diameter	6 mm
Voltage	100 - 240 VAC
Frequency	50 / 60 Hz
Operating Temperature Range	5 - 40 °C
Energy Consumption	8 W

Mini Orange Condensate Removal Pump

Dimensions: LxWxH: 116x39x51mm & 80x39x34mm



BRAND: ASPEN

The world's best selling mini pump offers unrivalled reliability and performance.

KEY Features:

- Submersible secondary reservoir included
- Plug & play
- Anti siphon device

Technical Data:

SKU: 446062

Model:	Mini Orange
Max. Flow	12L/h
Max. rec. head	10m
Max. suction lift	2m
DB(A) @ 1m	21dB(A)
Power supply	230 VAC, 0.11A, 16W, 50/60Hz
Max. unit output	16kW / 54,000Btu/h*
Max. water temp	40°C/ 104°F

Silent+ Mini Aqua Condensate Pump

Dimensions: LxWxH: 183x28x28mm & 80x39x34mm



BRAND: ASPEN

Combining Silent+ technology and the slimmest mini pump on the market, the Silent+ Mini Aqua leads the way in innovation.

KEY Features:

- Quietest in its class
- Acoustic damper
- Plug & play
- Anti siphon device

Technical Data:

SKU: 446060C

Model:	Silent+ Mini Aqua
Max. Flow	12L/h
Max. rec. head	10m
Max. suction lift	2m
DB(A) @ 1m	19
Power supply	230 VAC, 0.1A, 16W, 50/60Hz
Max. unit output	4.5ton / 49,500Btu/h
Max. water temp	40°C/ 104°F

Max Hi-Flow Condensate Removal Pump

Dimensions: LxWxH: 285X144X134mm



BRAND: ASPEN

The best in class Max Hi-Flow tank pump carries on the Aspen Pumps tradition of build quality & high performance. With the lowest dB(A) rating & best IP rating (IP24 splash proof) of any tank pump, the Max Hi-Flow is the quietest & safest pump in its class.

KEY Features:

- IP24 - Splash proof
- Easy access tank
- Built in spirit level
- Plug & play

Technical Data:

SKU: 446060B

Model:	Max Hi-Flow
Max. Flow	550L/h @ 0m head
Max. rec. head	5m
Tank capacity	1.7L
dB(A)@1m	44
Power supply	230 VAC, 0.8A, 50Hz
Max. unit output	733kW / 2.5m Btu/h
Max. water temp	40°C/ 104°F

VACUUM PUMPS

F Series R32 Vacuum Pump



BRAND: WIPCOOL

The F series R32 vacuum pump is designed for the new generation refrigerant R32 and can be used with flammable refrigerants (A2L or A2) as well as older ones like R12, R22, and R410A. It features a built-in solenoid valve, overhead vacuum meter, reinforced aluminum alloy oil tank for heat dissipation and chemical resistance, and an oversized sight glass for easy oil level and color monitoring. The pump's powerful, lightweight brushless DC motor ensures easy starting, high efficiency, and long service life, even in lower ambient temperatures.

Technical Data:

SKU: 448003/3A

Model	2F2R	2F3R	2F4R
Voltage	230V~/50-60Hz or 115V~/60Hz	230V~/50-60Hz or 115V~/60Hz	230V~/50-60Hz or 115V~/60Hz
Ultimate Vacuum	15 microns	15 microns	15 microns
Input Power	1/2HP	3/4HP	1HP
Flow Rate (Max.)	5CFM/ 142L/min	7CFM/ 198L/min	9CFM/ 255L/min
Oil Capacity	450ml	520ml	500ml
Weight	8kg	10kg	10.5kg
Dimension	339x130x225	365x147x242	365x147x242
Inlet Port	1/4" & 3/8" SAE	1/4" & 3/8" SAE	1/4" & 3/8" SAE

VI-240-R32

R32 Series Vacuum Pump

Suitable for R32, 1234yf

Dimensions: LxWxH: 338x138x249mm



BRAND: VALUE

Electronic Starter - Enclosed Switch

- Explosion-proof design

Integrated Body Structure

- Higher precision
- Higher ultimate vacuum

Anti-backflow Solenoid Valve

- Preventing pump oil backflow from contaminating the vacuum system

Large Oil Screen

- Better visibility

Built-in Vacuum Gauge

- Built-in vacuum gauge prevents damage by impact

Technical Data:

SKU: 448002C

Model:	V-i240-R32
Flow Rate 50Hz	3.5 CFM/ 100 L/min
Flow Rate 60Hz	4.0 CFM/ 113 L/min
Ultimate Vacuum / Partial Pressure	2x10 ⁻¹ Pa
Ultimate Vacuum / Total Pressure	15 micron
Power	1/2 HP
Inlet Port	1/4" SAE
Oil Capacity	325 ml
Weight	11kg

VRP-15D

Double Speed, Super Vacuum Performance

Suitable CFC, HFC, such as R12, R22, R410A, R404A, R32 R134A, 1234yf etc.

Dimensions: LxWxH: 414X152X310mm



BRAND: VALUE

Industrial Grade Design

- High Quality, Super High Vacuum
- High Evacuation Performance

Oil Back Flow Prevention

- No System oil contamination during power failure

DC Motor

- Light, Fast

Oil Drain Valve

- Ball valve design, Easier to drain

Integrated dual stage pump

- High Vacuum Level

Sight Glass

- Easy to see, Eliminate oil Shortage

Technical Data:

SKU: 448002D

Model:	VRP-15D
Flow Rate	15 CFM/420 L/min
Ultimate Vacuum	0.67 Pa/ 5 micron
Pump Design	Dual Stage
Motor Power	3/4HP
Inlet Port	1/4" & 3/8" SAE
Oil Capacity	880ml
Weight	15kg

V-i2120

R32 Only Vacuum Pump

Suitable for R32, R1234yf Refrigerant

Dimensions: LxWxH: 345x135x280mm



BRAND: VALUE

Hi Efficiency Motor

- More Efficient
- Higher ultimate vacuum

Large Oil Screen

- Better Visibility

Technical Data:

SKU: 448002E

Model:	V-i2120
Flow Rate	12 CFM/340 L/min
Partial Pressure	2x10 ⁻¹ Pa
Total Pressure	15 micron
Power	1 HP
Inlet Port	1/4" & 3/8" SAE
Oil Capacity	500ml
Weight	11.5kg

VACUUM PUMPS

VRP-6DV/8DV

Smart Vacuum Pump

Suit for R32, 1234yf, R410A, R22, R134A refrigerant & etc.

Dimensions: LxWxH: 346x145x302mm



BRAND: VALUE

Built-in Solenoid Valve

- Preserve vacuum during power failure
- Prevent oil back flow

Embedded Vacuum Gauge

- Precision/ Anti-Shock

DC Technology

- Lighter
- More efficient

Precision Manufacturing

- More reliable

Technical Data:

SKU: 448002F

SKU: 448002G

Model:	VRP-6DV	VRP-8DV
Flow Rate	6.0 CFM/ 226 L/min	8.0 CFM/ 226 L/min
Unlimate Vacuum	15 micron/ 2x10 ⁻¹ Pa	15 micron/ 2x10 ⁻¹ Pa
Pump Design	Dual Stage	Dual Stage
Motor Power	3/4 HP	3/4 HP
Inlet Port	1/4" & 3/8" SAE	1/4" & 3/8" SAE
Oil Capacity	600ml	600ml
Weight	11.5kg	11.5kg

F Series Cordless Vacuum Pump

Battery Vacuum Pump



BRAND: WIPCOOL

The F series Cordless Vacuum Pump eliminates the need for cords and provides instant power with an 18V Li-ion battery, offering 45-60 minutes of runtime per charge (4.0Ah). It has three flow rates (1.5/2.5/5 CFM) and is compatible with new generation refrigerants (A2L). Standard features include a built-in solenoid valve, overhead vacuum meter, and a reinforced aluminum alloy oil tank for effective heat dissipation and chemical resistance. An oversized sight glass makes oil color and level easy to monitor. Additionally, it supports adapters for six major brand batteries (Bosch, Makita, Panasonic, Dewalt, Worx, and Devon) to maximize the use of existing batteries and reduce costs.

Technical Data:

SKU: 4480031/3J

Model	2F1BR	2F2BR
Voltage	DC18V(AEG/RIDGID interface)	DC18V(AEG/RIDGID interface)
Ultimate Vacuum	15 microns	15 microns
Input Power	1/4HP	1/2HP
Flow Rate (Max.)	2.5CFM/ 71L/min	5CFM/ 142 L/min
Oil Capacity	280ml	450ml
Weight	4.5kg	7.5kg
Dimension	309x113x198	339x130x225
Reference running time	45mins(4.0Ah Li-ion battery)	40mins(4.0Ah Li-ion battery)
Reference charging time	210mins(4.0Ah Li-ion battery)	210mins(4.0Ah Li-ion battery)

VRP-4DLi

Li-Battery Vacuum Pump

Suit for R32, 1234yf

Dimensions: LxWxH: 320x112x242mm



BRAND: VALUE

DC Motor

- Lighter weight, more powerful, Faster Evacuation

Ball Valve Switch

- Easy operation, Better experience
- Easy-to-turn off

High Performance Lithium Battery

- Running Time Reaches 50 minutes

Big Sight Glass

- Easy-to-see
- Ensuring high-reliability operation

Mini Design

- Easy-to-use & Portable

Technical Data:

SKU: 4480020

Model:	VRP-4DLi
Flow Rate	4.0 CFM/ 114 L/min
Ultimate Vacuum	2 Pa/ 15 micron
Pump Design	Double Stage
Inlet Port	1/4" SAE & 3/8"
Oil Capacity	260ml
Battery	18V 9Ah
Running time	50 min
Weight	7kg

VRP-2DLi

Li-Battery Vacuum Pump

Suit for R32, 1234yf

Dimensions: LxWxH: 233x90x190mm



BRAND: VALUE

DC Motor

- Lighter weight, more powerful, Faster Evacuation

Ball Valve Switch

- Easy operation, Better experience
- Easy-to-turn off

High Performance Lithium Battery

- Dual Stage Running time reaches 50 minutes
- Single Stage Running times reaches 75 minutes

Big Sight Glass

- Easy-to-see
- Ensuring high-reliability operation

Mini Design

- Easy-to-use & Portable

Technical Data:

SKU: 448002I

Model:	VRP-2DLi
Flow Rate	2.0 CFM/ 57 L/min
Ultimate Vacuum	2 Pa/ 23 micron
Pump Design	Dual Stage
Inlet Port	1/4" SAE
Oil Capacity	160ml
Battery	18V 5Ah
Running time	50 min
Weight	3.2kg

VACUUM PUMPS

VP67UK

6 CFM Vacuum Pump

Dimensions: 201 x 296 x 406 mm



BRAND: FIELDPIECE

Pick up a VP67 Vacuum Pump if you want to make more service calls per day. This new lightweight, portable and powerful pump performs system evacuations faster, freeing you up to visit more customers. It has a wide, sturdy base, powerful motor and the legendary Fieldpiece toughness masters of the trade have come to expect. Since it's a Fieldpiece vacuum pump, the VP67 uses our revolutionary RunQuick® Oil Change System. This allows you to change the pump's oil in 20 seconds without making a mess and without turning off the pump. Never lose vacuum again. With a small footprint, the VP67 can go just about anywhere, along with its ½ HP AC motor that has all the power you need to quickly pull a deep vacuum. Plus, it comes with four in-line ports to make hose routing easy — even for three different size hoses.

Technical Data:

SKU:448005B

Model	VP67UK
Flow Rate	6 CFM
Ultimate Vacuum	15 microns
Motor	½ HP AC motor
Port Sizes	(1) 1/4", (2) 3/8", (1) 1/2"
Oil Change System	RunQuick® Oil Change System (quick, mess-free)
Weight	13.2 kg

VP87UK

8 CFM Vacuum Pump

Dimensions: 201 x 296 x 406 mm



BRAND: FIELDPIECE

The VP87 Vacuum Pump features the RunQuick™ Oil Change System, allowing for clean, quick oil changes in 20 seconds without powering down or losing vacuum. It includes a large oil reservoir for easy oil condition monitoring and extra storage for an oil container. Weighing only 12.25 kg, the VP87 is lightweight and portable yet robust, and compatible with A2L refrigerants. It has four in-line ports for easy hose connection and a lever-style gas ballast valve for quick adjustments. This design minimizes hose clutter and enhances efficiency.

Technical Data:

SKU:448005C

Model	VP87UK
Flow Rate	8 CFM
Ultimate Vacuum	15 microns
Motor	3/4 HP DC motor
Port Sizes	(1) 1/4", (2) 3/8", (1) 1/2"
Weight	12.4kg

VPX7UK

10 CFM Vacuum Pump

Dimensions: 201 x 296 x 406 mm



BRAND: FIELDPIECE

Since clean oil matters, the VPX7 features a large oil reservoir window to give you an instant indicator of the condition of your oil and system. It also features our RunQuick® Oil Change System that lets you change oil without powering down and without losing vacuum. You won't make a mess. Our new removable oil window makes it easy to clean and easy to see operational lights regarding gas ballast and cold start. It's light enough to be carried anywhere and its extra-wide base means it won't tip or spill oil once you get it there. Also, it has four in-line ports, so you'll have plenty of room for running multiple hoses without tangles or clutter.

Technical Data:

SKU:448005D

Model	VPX7UK
Flow Rate	10 CFM
Ultimate Vacuum	15 microns
Motor	3/4 HP DC motor
Port Sizes	(1) 1/4", (2) 3/8", (1) 1/2"
Weight	10.90kg

VP633

ATEX Rated 6CFM Vacuum Pump

Dimensions: 201 x 296 x 406 mm



Do you work with A3 refrigerants? No need to worry! Our VP633 vacuum pump is ATEX Rated, ensuring safe operation in potentially explosive environments. This rating confirms that the VP633 is compatible with A3 refrigerants, allowing you to work confidently.

Technical Data:

SKU:448005E

Model	VP63
Flow Rate	6 CFM
Ultimate Vacuum	15 microns
Motor	3/4 HP DC motor
Port Sizes	(1) 1/4", (2) 3/8", (1) 1/2"
Weight	10.90kg

VACUUM GAUGE

VALUE Vacuum Gauge 80mm

SKU: 448085



High-precision, precision analog vacuum gauge. On the dial, as a manual calibration option, there is a screw that can be adjusted with a screwdriver, with the help of which the pointer can be set to the zero value. The connector size is 1/8 NPT.

BRAND: VALUE

VALUE Vacuum Gauge 50mm

SKU: 448085A



High-precision, precision analog vacuum gauge. On the dial, as a manual calibration option, there is a screw that can be adjusted with a screwdriver, with the help of which the pointer can be set to the zero value. The connector size is 1/8 NPT.

BRAND: VALUE

VMV1S

Premium Micron Vacuum Gauge



Wide Range of Application

- Professional grade
- Precise

Rechargeable Battery

- Long battery life

Large Backlit Display

- Easy-to-read large digital display
- Backlit for clarity

High Pressure Protection

- 34.5 bar maximum pressure

Buzzing Alert

- Vacuum level reminder
- Vacuum leakage reminder
- Decay target and decay duration

BRAND: VALUE

Technical Data:

SKU: 448085C

Model:	VMV1S
Maximum Pressure	3.4 bar
Range	0–3333.3 Pa, 0–25000 microns, 0–33.3 mBar, 0–25 mmHg
Resolution	0.01 Pa (<10 Pa), 0.01 micron (<10 microns), 0.001 mBar, 0.001 mmHg
Accuracy	±5% of reading (6.7-133Pa) (50-1000microns) 20°C
Operating Temperature	0–40°C
Unit	Pa, mBar, mmHg, microns
Sensor	Pirani sensor
Battery	2000 mAh Li-polymer
Weight	175 g
Accessory	Angled Stem, Storage Bag

MG44INT

Wireless Vacuum Gauge



The MG44 features a 300m wireless range, allowing real-time access to measurements via the Job Link® app or Digital Manifold. It includes a robust vacuum gauge that can handle up to 60 bar of overpressure without compromising accuracy. This enables remote monitoring of vacuum progress from up to 300 meters away.

BRAND: FIELDPIECE

Technical Data:

SKU:448083

Model	MG44INT
Accuracy	±(5% of reading + 5 microns) at 25°C, 50 to 2000 microns
Range and Units	50 to 25000 microns of mercury, 6 to 3333 Pascals, 0.06 to 33.33 mBar, 50 to 25000 mTorr, 0.05 to 25 Torr
Best Resolution	1 micron (below 2000 microns), 1 Pascal (below 250 Pascals)
Wireless Range	300 meters line of sight
Water Resistance	IP54
Weight	300g

RECOVERY UNIT

VRR24LOS-R32
L Series Recovery Unit
LxWxH:450x250x355mm



BRAND: VALUE

Technical Data: SKU: 448008

Model:	VRR24LOS-R32
Refrigerant	Categories III: R12, R134a, R401C, R500, 1234yf Categories IV: R22, R401A, R401B, R402B, R407C, R407D, R408A, R409A, R411A, R411B, R412A, R502, R509 Categories V: R402A, R404A, R407A, R407B, R410A, R507, R32
Power Supply	220V-240V~/50-60Hz,
Motor	1 HP
Motor Speed	1450 rpm
Maximal Current Draw	5A
Compressor	Oil-less, Air-cooled, Piston style
Automatic Safety Shut-Off	38.5bar/3850kPa (558psi)
Recovery Rate (kg/min)	Vapor: Categories III: 0.40, Categories IV: 0.50, Categories V: 0.50 Liquid: Categories III: 3.00, Categories IV: 3.50, Categories V: 3.50 Push/Pull: Categories III: 7.50, Categories IV: 8.50, Categories V: 9.50
Operating Temperature	0°C~40°C
Weight	14.7kg

VRR12L-R32
L Series Recovery Unit
Dimensions: LxWxH: 450x250x355mm



BRAND: VALUE

Technical Data: SKU: 448008A

Model:	VRR12L-R32
Refrigerant	Categories III: R12, R134a, R401C, R500, 1234yf Categories IV: R22, R401A, R401B, R402B, R407C, R407D, R408A, R409A, R411A, R411B, R412A, R502, R509 Categories V: R402A, R404A, R407A, R407B, R410A, R507, R32
Power Supply	220V-240V~/50-60Hz
Motor	3/4 HP
Motor Speed	1450 rpm
Maximal Current Draw	4A
Compressor	Oil-less, Air-cooled, Piston style
Automatic Safety Shut-Off	38.5bar/3850kPa (558psi)
Recovery Rate (kg/min)	Vapor: Categories III: 0.20, Categories IV: 0.25, Categories V: 0.25 Liquid: Categories III: 1.60, Categories IV: 1.80, Categories V: 2.20 Push/Pull: Categories III: 4.60, Categories IV: 5.60, Categories V: 6.30
Operating Temperature	0°C~40°C
Weight	13kg

VRDDF Recovery unit
ATEX- Certified A1 A2L A2 A3
R290, R600A etc.
Dimensions: 370x250x297 mm



BRAND: VALUE

Technical Data: SKU: 448008D

Model:	VRDDF
Refrigerant	Categories III: R12, R134a, R401C, R500, 1234yf, R600A Categories IV: R22, R401A, R401B, R402B, R407C, R407F, R408A, R409A, R411A, R411B, R412A, R502, R509, R290 Categories V: R402A, R404A, R407A, R407B, R410A, R507, R32, R507
Power Supply	220-240V~50/60Hz
Motor	Brushless DC motor 1HP
Motor Speed	3000 rpm
Maximal Current Draw	6.5 A
Compressor	Oil-less, Air-cooled, Piston style
Automatic Safety Shut-Off	38.5bar / 3850kPa (558psi)
Recovery Rate (kg/min)	Vapor: Categories III: 0.43, Categories IV: 0.54, Categories V: 0.54 Liquid: Categories III: 3.60, Categories IV: 4.00, Categories V: 4.20 Push/Pull: Categories III: 7.50, Categories IV: 8.50, Categories V: 9.50
Operating Temperature	0°C~40°C
Weight	11kg

MR45INT
Digital Recovery Machine
Dimensions: 376 x 250 x 344 mm



BRAND: FIELDPIECE

Technical Data: SKU:448006

Model:	MR45INT
Refrigerants	12, 22, 32*, 134A, 143A*, 401A, 401B, 401C, 402A, 402B, 404A, 407A, 407B, 407C, 407D, 408A, 409A, 410A, 448A, 452A, 454B*, 500, 502, 507, 509, 1234YF*, 1234ZE* *Class A2L refrigerants
Power Source	95 to 130 VAC @ 60 Hz
Motor	1HP DC motor
Motor Speed	3000 rpm
Max current Draw	12 AAC
Compressor	Twin cylinder reciprocating (oil-less)
Input/ Output Port Pressure Range	-30" Hg to 600 psig (-76 cmHg to 41 Bar)
High Pressure Cutoff	558 psig, nominal (38 Bar)
Pressure Sensor Accuracy	± 0.5" Hg (Vacuum), ± (0.6% of reading + 2 psig)
Final Recovery Vacuum	14.9" Hg
Weight	10kg

REFRIGERANT SCALES

VRS-50I-01 ELECTRONIC SCALE

High - Flow Evacuation Hoses

Dimensions: 210x260mm



BRAND: VALUE

Wireless Bluetooth Control

- More Convenient

Precision Sensor

- Precision measurement
- Accuracy 0.05%

Magnesium alloy weighing pan

- Only 2.0kg, easy to carry

Technical Data:

SKU: 448101A

Model:	VRS-50I-01
Weighting range	50kg
Resolution	2g
Accuracy	0.05%
Power	4xAA, 4xAAA
Weight	2kg

VES-50A REFRIGERANT SCALE

Dimensions: 237X237mm



BRAND: VALUE

High Precise Sensor

- Precise measurement
- High precision

LCD Backlit Display

- Clear Display, Easy to read

Compact

- Easy to carry

Technical Data:

SKU: 448101B

Model:	VES-50A
Weighting range	50kg
Resolution	2g
Display	LCD
Accuracy	±0.05% F.S
Power	DC 9V
Working Environment	-10°C~40°C, ≤75% Humidity
Weight	5 kg

VES-50B REFRIGERANT SCALE

Dimensions: 237X237mm



BRAND: VALUE

High Precise Sensor

- Precise measurement
- High precision

LCD Backlit Display

- Clear Display, Easy to read

Compact

- Easy to carry

High Precise Valve

- Quantitative filling precision control

Automatic shut-off

Technical Data:

SKU: 448101

Model:	VES 50B
Weighting range	50kg
Resolution	2g
Display	LCD
Accuracy	±0.05% F.S
Power	DC 9V/AC
Working Environment	-10°C~40°C, ≤75% Humidity
Weight	6.5 kg

SR47INT

Refrigerant scale

Dimensions: 330X330mm



BRAND: FIELPIECE

SR47INT has a 300m wireless range on site. You can receive real time, accurate measurements of your SR47INT Wireless Refrigerant Scale up to 114kg and keep record, document and monitor weight from anywhere on the job. The SR47INT comes equipped with an IP54 rating to ensure you can do your job in both good and bad weather! The outside influences will not affect the accuracy of your measurements or the ability to do your job. No matter how big or small your job is: with the SR47INT, you are ensured you can measure every refrigerant tank.

Technical Data:

SKU:448103B

Model	SR47INT
Max tank base diameter	33 cm
Accuracy	±0.03%rdg + 10 g, 0 to 30 kg ±0.05%rdg + 10 g, 30 to 114 kg
Operating environment:	0°C to 50°C at <75% RH
Maximum load	114 kg
Weight	Platform with battery ~3190 g, Remote with battery 220 g

REFRIGERANT LEAK DETECTORS & MEASURING EQUIPMENT

DR82

Infrared Refrigerant Leak Detector



Fieldpiece DR82 Infrared Refrigerant Leak Detector can sniff out leaks at <0.03 oz/yr. That's 20 times more sensitive than soap bubbles. This exceeds detection standards so you can quickly find and pinpoint leaks.

DR82 triggers on all HFC, CFC, HCFC, HFO and blends. Unlike other detectors you'll find on the market, the DR82 doesn't trigger on oil or moisture. It also senses change in refrigerant levels and can work in contaminated environments. The sensors are fast-acting and last up to 10 years.

BRAND: FIELDPIECE

Technical Data:

SKU:448052G

Model	DR82
Sensor Type	Infrared
Detection Feedback	Red tip LED, LCD bar graph, LCD digits, beeper
Refrigerants	HFC, HCFC, CFC, HFOs, and blends
Response Time	<1 second typical
Battery Life	10 hours typical (backlight off)
Operating Environment	0°C to 40°C; <75% RH (non-condensing)

DR58

Heated Diode Refrigerant Leak Detector



Sniffing leaks at less than 0.03 oz/yr (1g/a), the DR58 detects all HFC, CFC, HCFC, HFO and blended refrigerants with superior sensitivity at detecting R410A refrigerant. On the DR58's new, bright backlit LCD screen you'll see easy-to-read bar graphs, numeric readings and customizable dual alarms. Also, it can both automatically and manually zero to refrigerant gas concentrations giving you total control. DR58 boasts an 18-hour battery life.

BRAND: FIELDPIECE

Technical Data:

SKU:448052H

Model	DR58
Sensor Type	Heated diode
Sensor Life	300 hours typical
Maximum Sensitivity	0.03 oz/yr (1g/a) stationary; 0.1 oz/yr (3g/a) in motion
Detection Feedback	Red tip LED, LCD bar graph, LCD digits, beeper
Battery Life	18 hours typical (backlight off)
Operating Environment	0°C to 40°C; <75% RH (non-condensing)

DRX3

ATEX Rated Heated Diode Refrigerant Leak Detector



ATEX Rated for Safety: Ideal for working with A3 refrigerants in potentially explosive environments, ensuring safe and confident operation on-site.

High Sensitivity & Durability: Detects leaks as small as 1 g/year and works with Tracer Gas (95% N2 + 5% H2).

Long Battery Life: Up to 60 hours of continuous use.

Flexible Calibration: Offers both automatic recalibration every 3 seconds and manual calibration options.

Technical Data:

SKU:448052O

Model	DRX3
Sensor Type	Heated diode
Sensor Life	300 hours typical
Maximum Sensitivity	1g/a, stationary; 3g/a, in motion
Detection Feedback	Flashing LED, LCD bar graph and digits, audible beep, Job Link® app
Battery Life	60 hours typical
Operating Environment	0°C to 40°C; <75% RH (non-condensing)

SNCV1

Non-contact Voltage Detector

SKU:439101D



This non-contact voltage detector features an analog feel. The closer the probe is to the voltage source, the louder and brighter the indicators become. Detects AC voltages without contact and features a bright red LED light and buzzer. With a 24VAC to 440VAC range of the SNCV1 offers technicians the ability to test thermostats and other HVAC/R parameter easily. Clips to your shirt pocket and is a quick source to find out whether that line is hot or not.

FEATURES:

Detects live AC voltage without contact

Bright LED and loud beeper

Range: 24VAC to 440VAC

Senses 24VAC for thermostat power

Analog feel indicates strong and weak AC voltage fields

BRAND: FIELDPIECE

REFRIGERANT LEAK DETECTORS & MEASURING EQUIPMENT

SC260

400A Clamp Meter Compact
Dimensions: HxWxD 205.5x67.4x45.1mm



The SC260 Compact Clamp Meter is designed for HVACR electrical measurements and offers True RMS for accurate readings. It measures temperature in both Fahrenheit and Celsius and features a bright backlight for use in dimly lit areas. The meter includes a sturdy swivel magnet for hands-free use and an Auto Select mode that automatically chooses the correct measurement type. Its high temperature resistance ensures accurate readings in extreme environments, from cold freezers to hot rooftops.

Technical Data:

Code:439101A

Model	SC260
Display	4000 count
Measurement Rate	3 times per second
Operating environment	32°F to 122°F (0°C to 50°C), <70% RH
Power	9V alkaline battery (150-200 hours typical life)
Accuracy	Stated accuracy at 73°F±9°F (23°C±5°C)
Weight	Approx. 265g including battery

SC680

600 AC/DC Swivel Clamp Meter Dual Display
Dimensions: HxWxD 301.55X79.5X50mm



The SC680 is an advanced digital clamp meter for HVACR professionals, featuring wireless connectivity to the Job Link® app, True RMS accuracy, and safety ratings up to CAT IV – 600V. It measures AC/DC, power consumption, and frequency, and is ideal for troubleshooting mini-split systems. Key features include a swivel head clamp, dual temperature ports, phase rotation testing, and a bright backlit display with an LED light. It also has a heavy-duty magnet for hands-free use and convenient storage for test leads.

Technical Data:

Code:439101A

Model	SC680
Display	10000 count dual display
Measurement Rate	3.3 times per second
Operating environment	32°F to 122°F (0°C to 50°C), <70% RH
Power	Single 9-volt battery, 100 hours typical life (no wireless, no backlight)
Low Battery Indication	Battery icon blinks, "batt" is displayed
Weight	Approx. 480g including battery

VMC-1

Digital Clamp Multimeter



High Precision chip

- Precise measurement

Compact design

- Easy to carry

LCD backlit display

- Large screen data display, better readability

28mm jaw

- Suitable for more demanding circuit maintenance

Technical Data:

Code:439100E

Model:	VMC-1
Max Measurement Voltage	600V
Max Measurement AC Current	400A
Max Measurement Capacitance	40mF
Temperature Measurement Range	-40°C to 1000°C

BRAND: VALUE

ADC400

Digital Clamp Meter



- Fast Capacitance measurement
- True RMS measurement
- Large LCD display
- Overcurrent indication
- Audio Visual alarm for NVC Function
- AC voltage frequency measurement
- Full-featured false detection protection

Technical Data:

Code:439095A

Model	ADC400
AC current (A)	400A
AC current frequency (Hz)	50Hz~100HZ
DC voltage (V)	600V
AC voltage (V)	600V
AC voltage frequency (Hz)	10Hz~10KHz
Resistance (Q)	40MΩ
Capacitance(F)	4mF
Temperature measurement (C/°F)	-40~1000°C/-40~1832°F

BRAND: Wipcool

REFRIGERANT LEAK DETECTORS & MEASURING EQUIPMENT

LT17A

Digital Multimeter



The LT17A is a versatile digital multimeter designed for HVACR applications. It measures current, resistance, voltage, capacitance, frequency, continuity, and temperature. Features include test lead storage, compatibility with Fieldpiece accessory heads, a durable ABS plastic body, and a bright blue backlight. It offers accurate temperature readings with a k-type thermocouple and an accessible calibration pot, making it a comprehensive and reliable tool for HVACR professionals.

BRAND: FIELPIECE

Technical Data:

Code:439101J

Model	LT17A
Operating Environment	32 to 122°F (0 to 50°C), <70% RH
Battery Life	150 hours typical
Battery Type	9V NEDA 1604
DC Voltage Ranges	200mV, 2000mV

ADM750

Digital Multimeter



- 2m drop test
- Data hold
- LCD backlight
- hFE measurement
- NCV detection
- Temperature measurement

BRAND: WIPCOOL

Technical Data:

Code:439095B

Model	ADM750
DC (V)	1000V
AC (V)	750V
DC(A)	10A
AC(A)	10A
Resistance (Ω)	40MΩ
Capacitance (F)	10mF

ADA30

Digital Anemometer



- LCD backlight
- Portable
- High Precision temperature Sensor
- Fast response
- High precision wind speed sensor

BRAND: WIPCOOL

Technical Data:

Code:439095

Model	ADA30	
Function	Range	Accuracy
	0~30m/s (Standard)	±(5%rdg+0.5)
	1.4~108Km/h (Reference)	±(5%rdg+15dgts)
Wind Speed Measurement	0.7~58Knots (Reference)	±(5%rdg+10dgts)
	0.8~67mph (Reference)	±(5%rdg+10dgts)
	78~5905ft/min (Reference)	±(5%rdg+180dgts)
Temperature Measurement	-10°C~50°C	±2°C

VMA-1

ANEMOMETER

Dimensions: 164x57x30mm



- Ergonomic Design**
- Easy to carry
- High Sensitivity Wind Rotor**
- 6 vanes high sensitivity wind motor
 - Low friction bearing technology
- Large Backlit Display**
- Easy-to-read large digital display
 - Backlit display for clarity

Technical Data:

Code:439100F

Model	VMA-1
Wind Speed Measurement Scope	0 12
Accuracy of wind-speed measurement	±(5%rdg+0.5)
Accuracy Temperature Measurement	±2°C
Wind Scale Accuracy	±1
Wind-speed resolution	0.1 m/s
Temperature resolution	0.1°C
Sampling rate	500 ms
Power	1.5V AAAx3
LCD size	32x26mm

REFRIGERANT LEAK DETECTORS & MEASURING EQUIPMENT

ALM40

Laser Distance Meter
Dimensions: 90x40x24mm



- Tri-color indicator
- LCD display
- Power switch
- Metal /AC switch
- Wooden strip switch

BRAND: WIPCOOL

Technical Data:

Code:439095F

Model	ALM40
Accuracy of measurement/ Unit	±5mm/ m/in/ft
Measuring range (no reflector)	0.03-20m/30m/40m
Measuring time	0.3-4 seconds
Laser type	620 ~ 670nm,<1mv
Self-closing laser/Automatic shutdown	15 seconds/45 seconds
Display lighting	White LED
Battery type and life	2x1.5V AAA Alkaline batteries, Single measurement about 5000 times

AWD12

Wall Detector
Dimensions: 147x68x27mm



- Tri-color indicator
- LCD display
- Power switch
- Metal /AC switch
- Wooden strip switch

BRAND: WIPCOOL

Technical

Code:439095E

Model	AWD12
Ferrous metal	120mm
Non-ferrous metal (copper)	100mm
Alternating current (ac)	50mm
Copper wire (≥4 mm 2)	40mm
Foreign body (Generally refers to the wooden block)	exact mode 20mm, deep mode 38mm 0-85%RH in metal mode, 0-60%RH in foreign body mode
Working humidity range	-10°C ~ 50°C
Operating temperature range	-20°C ~ 70°C
Battery	1X9 volt dry battery
The usage time	about 6 hours

ASM130

Sound Level Meter



Technical Data:

Code:439095D

Model	ASM130
Noise (A weighted)	30~130dB
Accuracy	±1.5dB
Resolution	0.1dB
Sampling rate	Fast: 125ms; Slow: 1000ms
Frequency range	31.5Hz~8kHz
Battery	1.5V battery (R03) x 3

BRAND: WIPCOOL

SMG5

Digital Megohm Meter
Evaluate Compressor Insulation.



The Fieldpiece Digital Megohm Meter (model SMG5) is a compact tool used for testing HVAC compressor insulation. It applies a 1000V voltage to measure resistance, helping identify insulation issues in motors, compressors, or transformers. The meter features a maximum current output of less than 1mA and includes a case, alligator clip lead tip, and removable leads. Unlike a Digital Multimeter (DMM), which uses low voltage (<1V) and measures only a few milliamps, the SMG5 can detect high resistance problems due to moisture or contaminants more effectively.

BRAND: FIELPIECE

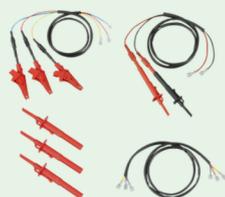
INVERTER CHECK

Compact design 81 x 73 x 28 mm



Code:439094

BRAND: REFCO



Code:439094A

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

FEATURES:

- Direct analysis of compressor or inverter faults
- Quick visual status display
- Complies with the CE low voltage directive
- For inverters up to 440 VAC

REFRIGERANT LEAK DETECTORS & MEASURING EQUIPMENT

SPK2

Folding Pocket In-Duct Thermometer



The SPK2 Folding Pocket Thermometer is a compact, portable tool for quickly measuring air temperatures. It features a folding rod with a hanging hook, a large display with Min/Max/Hold functions, and measurements in both Fahrenheit and Celsius. It can calculate T1-T2 and includes a low battery indicator. With an impressive 8,000-hour battery life on a single AA battery, it also has an Auto Power Off function to conserve energy.

BRAND: FIELPIECE

Technical Data:

Code:445040A

Model	SPK2
Operating Environment	0°C to 50°C
Measuring Range:	-50°C to 200°C
Auto Off	15 minutes
Battery Life	About 8000 hours
Battery	1 x AA (included)

SPK3

Thermometer – Compact Type K | Infrared



The SPK3 is a great tool to quickly take in-duct, ambient, and register temperatures. It's a handy tool to assess a system and it fits conveniently in your pocket. The ROD has a sharp, narrow tip to easily insert into duct work, and the hanging hooks allows you to take hands-free measurements. The bright back lite display flips between the IR and ROD measurements so readings are always easy to view. Plus this handy tool quickly calculates T1 – T2 across both the IR and ROD modes, or a combination of the two.

BRAND: FIELPIECE

Technical Data:

Code:445040B

Model	SPK3
Probe Length	94mm (~3.75")
Operating Environment	32°F to 104°F (<90% RH)
Battery Life	40 hours (IR mode), 750 hours (ROD mode)
IR Range	-30°C to 500°C
Accuracy (IR)	±4°F to ±2°F (depending on temperature)
Response Time (IR)	0.5 seconds

VIT-300S

Infrared thermometer



A measuring instrument used for contactless temperature measurement from a distance. It works based on the analysis of thermal radiation emitted by the tested surfaces on which the laser beam emitted by the instrument falls. The ease of use and accessibility in places difficult to reach, allows for a wild range of applications in refrigeration and air-conditioning.

BRAND: VALUE

Technical Data:

Code:445036A

Model	VIT-300S
Temperature range	-32 °C to 400 °C
Max measuring accuracy	+/- 2°C or +/- 2%
Response time	500ms
Debug mode	single-process debugging
Ambient operation temperature	23°C ±2°C-
Weight	185g

AIT500

Infrared Thermodetector



Technical Data:

Code:439095C

Model	AIT500
Model Measurement Range	-50°C~500°C (-58°F~932°F)
Accuracy	-50°C~0°C:±2°C +0.1°C(0)0°C~500°C:±2°C or ±2%(whichever is greater)
Distance to spot ratio (D:S)	12: 1
Response time	≤250ms(95% of reading)
Emissivity	0.1-1.0 (adjustable, 0.95 default) by
Operating temperature	0°C~50°C (32°F~122°F)

BRAND: WIPCOOL

ATC550

Infrared Thermal Imaging Camera



Technical Data:

Code:439095I

Model	ATC550
Temperature Range	-20 °C-550 °C
Temperature meas accuracy	± 2 °C/± 2% (maximum value taken)
Temperature meas resolution	0.1 °C
Display Resolution	320 x 240px
IR Sensor Resolution	160*120
Response band	8-14 μM
Thermal Sensitivity	< 50mK @ 25 °C
Frame rate	≤ 25Hz
Distance to Spot Ratio	emissivity 0.95 (default) (0.1-0.99)
Field of View	40 ° H x 30 ° V
Storage	Built-in 32GB EMMC
Battery type	Built-in 3.7V 2600mAh(Type-C port)

BRAND: WIPCOOL

LEAK STOP AND ADDITIVES

GLOSEAL™

Fluorescent Dye with Sealant

GLO Seal™ pinpoints the exact location of all leak areas and seals AC&R micro-leaks from the inside. GLO Seal™ is concentrated and perfect for fighting corrosion problems, making it a robust find-and-fix solution for AC&R systems. Use GLO Seal™ for 24/7 leak detection and HVAC preventative maintenance.

Product No.	Description	Treats up to
SPE-EZDS-CS SKU:448095A	(1) 0.5 oz (15 ml) EZ-Ject™ cartridge prefilled with GLO Seal™ Fluorescent Dye + Sealant	3.5 tons (12.3 kW) of cooling
SPE-EZDSK-CS SKU:448095	GLO Seal™ EZ-Ject™ Dye Injection Kit: (2) SPE-EZDS 0.5 oz (15 ml) EZ-Ject™ cartridges prefilled with GLO Seal™ Fluorescent Dye + Sealant RP-EZ-50 EZ-Ject™ dye injector assembly RP-EZ-25 8 in (20 cm) EZ-Ject™ hose assembly RP-AD-410A R-410a adapter/purge fitting Service labels adapter	7 tons (24.6 kW) of cooling



BRAND: SPECTROLINE

GLOSEAL™

Glo Seal™ UV DYE & SEALANT – INJECTION

Works to pinpoint the exact location of all leak areas and seals AC&R micro-leaks from the inside. The Spectroline patented dual pivoting adapter easily switches from 5/16" or 1/4" flare fittings, making it a versatile tool to keep on hand.

Product No.	Description	Treats up to
JAV-1420 SKU:448095B	Glo Seal™ 10ml Syringe Injector & Adapter Kit includes: 2 x Single use syringe injector (10 ml) 1 x Patented dual adapter (1/4" fl are - 5/16" fl are)	0.5 - 2.5 tons of cooling (1.76 - 8.79 kW)
JAV-1421 SKU:448095C	Glo Seal™ 10ml Syringe Injector – Single Use JAV-1421	



BRAND: SPECTROLINE

COOLSEAL™ A/C Leak Sealer

Seals micro leaks in condensers, evaporators, O-rings and hoses. Can add years to older, out-of-warranty AC&R systems that leak small amounts of refrigerant. Works with all popular refrigerants and oils. Remains safely in system to help protect against future leaks.

Product No.	Description	Treats
CS-1CS SKU:448090A	(1) 0.5 oz (15 ml) EZ-Ject™ cartridge prefilled with Cool Seal™ A/C Leak Sealer Cool Seal™ EZ-Ject™ Dye Injection Kit:	4 tons (14.1 kW) of cooling
CS-100CS SKU:448090	(2) CS-10.5 oz (15 ml) EZ-Ject™ cartridges prefilled with Cool Seal™ A/C Leak Sealer RP-EZ-50 EZ-Ject™ dye injector assembly RP-CS-25 8 in (20 cm) Cool Seal™ EZ-Ject™ hose assembly RP-AD-410A R-410a adapter/purge fitting Service labels	8 tons (28.1 kW) of cooling



BRAND: SPECTROLINE

LEAK STOP AND ADDITIVES

The revolutionary way to add fluorescent dyes into air conditioning and refrigeration systems – without the use of additional refrigerant, manifold and additional hoses. No pouring and no refrigerant required for injection.

Product No.	Description
SPE-EZ100E-CS	2 x 15 ml EZ-Ject universal/POE dye cartridges 1 x dye injector assembly 1 x 20 cm hose assembly with low-loss fitting & check valve 1 x R-410A adapter
SKU:448091	



Product No.	Description
SPE-EZ5E-CS	1 x 15 ml universal/POE dye cartridge
SKU:448091A	

Cartridge size	Treats (lubricant / refrigerant)
15 ml	> 7.6 L > 11.3 kg



BRAND: SPECTROLINE

Super-Dry Ultra

Anti-Moisture Additive for AC/R Systems

SKU:446146

SUPER-DRY ULTRA is a dehydrating additive that permits to prevent the formation of moisture in new AC/R Systems and even to eliminate the moisture in systems already in use. This high-quality product helps to avoid the risk of corrosion and freezing in different parts of the system. Its innovative formula can stabilize the lubricant and absorb the water with only 1/5 of the volume of its former chemical composition.

It's a well-known problem that the lubricant but also the refrigeration gas present a natural source of humidity in the refrigeration system. This problem is rising because of long-term use of the system and causes the aging of the air conditioning system as well as the saturation of the dehydrating filter. This kind of humidity can generate corrosion and freezing in different parts of the system.



BRAND: ERRECOM

MANIFOLDS

SINGLE MANIFOLD GAUGE

Low Pressure



Technical Data: **SKU: 448022C**

Model	20816
Refrigerant Scale	R22, R134A, R404A, R410A
Pressure Rating	800/4000psi
Hose Length	6"
Gauge Fitting	Low Side: 1/4" Service Port: 1/4"
Hose Fitting	Straight End: 1/4", 45° End: 1/4"
Converter	Includes: 1pc CB-R410-V, 1 pc CB-R410-04

BRAND: BLACK DIAMOND

High Pressure



Technical Data: **SKU: 448022D**

Model	20826
Refrigerant Scale	R22, R134A, R404A, R410A
Pressure Rating	800/4000psi
Hose Length	6"
Gauge Fitting	High Side: 1/4" Service Port: 1/4"
Hose Fitting	Straight End: 1/4", 45° End: 1/4"
Converter	Includes: 1pc CB-R410-V, 1 pc CB-R410-04

BRAND: BLACK DIAMOND

MANIFOLD GAUGE



BRAND: BLACK DIAMOND

Our manifold gauges are drop forged with a high-grade aluminum alloy. This reduces the weight while maintaining a durable structure. The patented magnetic buckle provides a convenient 2-in-1 method to hang the manifold while working. For magnetic surfaces, the magnet part of the buckle can be used to quickly secure the manifold gauge. For non-magnetic surfaces, the hook part of the buckle can be used instead. The large 80mm gauges provide clear and precise readings for the technician to see. Additionally, the 4X O-Ring design creates a leak-proof seal.

Technical Data: **SKU: 448022A** **448022**

Model	27456	27856
Refrigerant Scale	R410A, R32	R22, R134A, R404A, R410A
Pressure Rating	800/4000psi	
Sight Glass	Yes	
Hose Length	6"	
Gauge Fitting	Low & High Side: 1/4" Service Port: 1/4"	
Hose Fitting	Straight End: 1/4" 45° End: Low & high Sides -5/16" Service Hose- 1/4"	Straight End: 1/4" 45° End: 1/4"
Converter	Includes: 2pcs CB-R410-V 1 pc CB-R410-04	

Analogue Manifolds

2-way manifold



BRAND: REFCO

2-way manifold, without accessories, in blister

- With robust brass block
- Exchangeable Bourdon tube pressure gauges with metal case, class 1.6
- Zero point adjustable
- All mechanical parts are replaceable

Technical Data: **SKU: 448028C** **448028**

Model	BM2-8-DS-R290	BM2-8-DS-R32
Refrigerants	R290 R600 R600a	R32 R410A
Number of Ways	2-way	
Type	Bourdon-type	
Accuracy Class	1.6	
Nominal Size	68	
Zero Point Adjustment	Yes	
Pressure Scale	bar psi	

VMG-2

Manifold Gauge



BRAND: VALUE

Spare part
Aluminum knob



SKU: 448020/A

Technical Data: **SKU: 448024D**

Model:	VMG-2-R32-B-03
Refrigerant	R32, R410A, R407, R134A
Gauge Diameter	Φ68mm
Pressure Scale	-30 inHg ~ 800psi, -30 inHg ~ 500psi
Hose	/
Length	/
Package	Blister packaging

MANIFOLDS

VDG-4-S1

Digital Manifold Gauge

Suitable for R22, R134a, 1234yf, R290, R404A, R407C, R410A, R32, R507 refrigerant



BRAND: VALUE

LCD backlit Display

- Clearly display, easy to read

Impact-resistant

- Impact-Resistant design
- Durable Rubber Cover

Sight Glass

- Easily view refrigerant movement and condition during charging and recovery

Wide Range of Application

- Suit for 9 refrigerants

Aluminum knob

- Anticorrosion

Technical Data:

SKU: 448020G

Model:	VDG-4-S1
Refrigerant	R22, R134a, R404A, R407C, R410A, R32, R507, 1234yf, R290
Pressure display	psi bar kPa Mpa kgf/cm ²
Pressure resolution	1 psi; 0.1 bar; 1 kPa; 0.01 Mpa; 0.1 kgf/cm ²
Hose	Red & Blue: 1/4" -5/16", 2X150cm Yellow: 1/4"-1/4", 150 cm Black: 3/8" - 3/8", 150cm
Power	9V*2 battery

VRM2-0101I

Digital Manifold Gauge



BRAND: VALUE

Accurate

- Precision pressure gauge with Class 0.4 accuracy

Ball Valve Handle

- Efficient, convenient, easy
- Better Work experience

Impact-resistant

- Impact-Resistant design
- Durable Rubber Cover

Technical Data:

SKU: 448021B

Model:	VRM2-0101i
Refrigerant	R22, R134a, R1234yf, R290, R404A, R407C, R410A, R32, R507
Pressure scale	-30 inHg ~ 720psi
Hose	Red & Blue: 1/4" -5/16", Yellow: 1/4"-1/4", With 2 pcs adapters: Male 5/16" SAE Female: 1/4" SAE
Standard Length	3x150m
Package	Blow Case

VRM2-B-0801

Dual Analogue Gauge



BRAND: VALUE

Accurate

- Precision pressure gauge with Class 1.0 accuracy

Ball Valve Handle

- Efficient, convenient, easy
- Better Work experience

Impact-resistant

- Impact-Resistant design
- Durable Rubber Cover

Technical Data:

SKU: 448021C

Model:	VRM2-B-0801
Refrigerant	R32, R407C, R410A, R134A
Pressure Scale	LP: 0 ÷ 38 bar HP: 0 ÷ 55 bar
Hose	Yellow: 1/4" x 1/4", Red & Blue: 1/4" x 5/16"
Ports	3x 1/4" SAE
Accessories	Adapters 2 x 5/16" M SAE x 1/4" F SAE

DIGITAL MANIFOLDS

SM380VINT

SMAN Refrigerant Manifold 3-port



BRAND: FIELDPIECE

SKU:448040D

SM380VINT is built so you can do your job easier, faster and better. The new SM380V is simply strong. The heavy duty casing, reinforced hook, water resistance, impact resistant screen, strategically placed thermocouple ports, and hermetically sealed sight glass, all ensure the SMANs are ready to withstand the rigors of field use. SM380VINT comes equipped with an IP54 rating to ensure you can do your job in both good and bad weather!

SMAN480

SMAN Wireless Refrigerant 4-port



BRAND: FIELDPIECE

SKU:448040F

The SM480VINT has been designed to work with A1, A2L, and A3 refrigerants and blends to comply with F-gas regulations. Because of the temperature compensated system tightness test, you never have to worry about inaccurate measurements. On top of that, the built in vacuum gauge provides you with all the vacuum related information you need to know. It comes equipped with an IP54 rating to ensure you can do your job in both good and bad weather!

Specifications	SM380V	SM480V
Vacuum port		✓
Refrigerant port		✓
Display: LCD (5 inches diagonal)	✓	✓
Job Link® System integration	✓	✓
Wireless Range: 1000 feet (305 meters) line of sight – distance decreases through obstructions	✓	✓
Maximum Manifold Pressure: 800 Psig (5500 kPa)	✓	✓
Data Port: Micro USB (for extracting data logs or updating firmware)	✓	✓
Operating Environment: 32°F to 122°F (0°C to 50°C) at <75% RH	✓	✓
Storage Environment: -4°F to 140°F (-20°C to 60°C) at <80% RH (with battery removed)	✓	✓
Temperature Coefficient: 0.1 x (specified accuracy) per °C (0°C to 18°C, 28°C to 50°C), per 1.8°F (32°F to 64°F, 82°F to 122°F)	✓	✓
Weight: 4.03 lbs (1.83 kg)	✓	✓
Water Resistant: Designed to IP54	✓	✓

REFMATE-2-BASIC Digital Manifold Gauge



BRAND: REFCO

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

Standards
CE / FCC / IC / RCM/ RoHS / REACH

Technical Data:

SKU: 448029

Model:	REFMATE-2-BASIC
Accuracy Class	0.5 (+/-0.5%)
Gas Connection	1/4" SAE
Pressure Scale	bar psi kPa MPa kg/cm2
Number of Ways	2-way
Pressure Range	-0.95 - 60 bar
Battery	4 x AA Alternative Power Supply USBMicro-B

REFCO MANIFOLDS SPARE PARTS

M2-7-SET-R
Replacement knobs



SKU: 448059

M2-10-95-R/2
Replacement Valves



SKU: 448060

M4-6-11
Sight glass assembly with 2 gaskets



SKU: 448061A

HOSES AND ACCESSORIES

Refrigerant Hoses



All black Diamond Hoses Have patented Bearing Lock Fitting design. This design prevents the hose fittings from coming loose when the hoses are turned, preventing an accidental leak.

Technical Data:		SKU: 448045	448045A
Model		23336	23436
Pressure Rating		600/3000psi (R404)	800/4000psi (R410)
Hose Length		6"	
Hose Fitting		Straight End: 1/4" 45° End: 1/4"	Straight End: 1/4" 45° End: Low&High Side -5/16" Service Hose - 1/4"

SKU: 448049A
 Replacement Gasket HP-1 HNBR

BRAND: BLACK DIAMOND

Safe SEAL Fitting Charging Hoses



Technical Data:		SKU: 448045B	448045C
Model		23336-SS	23436-SS
Pressure Rating		600/3000psi (R404)	800/4000psi (R410)
Hose Length		6"	
Hose Fitting		Straight End: 1/4" 45° End: 1/4"	Straight End: 1/4" 45° End: Low&High Side -5/16" Service Hose - 1/4"

SKU: 448049F
 Replacement Gasket HP-SS HNBR

BRAND: BLACK DIAMOND

Ball Valve Hoses

For charging, recovery, and evacuation
 Hose Lengths: 1.5cm



Ball Valves Hose Set - 3 Pack

BRAND: FIELPIECE

Technical Data:		SKU:448044	448044A
Model		HR3B	HR3BM
A2L Compatible		Yes	Yes
Design		Rugged Full-Ring Triple Crimp	
Working Pressure		800 Psi	
Burst Pressure		4000 Psi	
Fitting size		1/4" x 1/4"	5/16" x 1/4"

SKU: 448044H
 Replacement Gasket & Depressor RHG12

Technical Data:

SKU:448044B		448044C
Model	HR3C	HR3CM
A2L Compatible	Yes	Yes
Design	Rugged Full-Ring Triple Crimp	
Working Pressure	800 Psi	
Burst Pressure	4000 Psi	
Fitting size	(2) 1/4" Female - Angled low loss x 1/4" Female - Straight (1) 1/4" Female - Angled with ball valve x 1/4" Female - Straight	(2) 5/16" Female - Angled low loss x 1/4" Female - Straight (1) 1/4" Female - Angled with ball valve x 1/4" Female - Straight



Refrigerant Hose



BRAND: VALUE

Wide Range of Application

- It's suit for R410A, R134A, R22 etc

Check Valve

- Effectively complete the pipeline switching

Safe and Reliable

- Rubber tube reinforced thickness 12mm, Ensure safe and reliable using

High Oil Resistance, anti-seep

- 3 layer reinforce refrigerant tube, Effective avoid seeping
- Pure copper connector, Longitudinal die-casting

Technical Data:

SKU:448046B		SKU: 448046A
Model:	R410A/ R32 (AIRCONDITION)	R134A, R404, R407C (REFRIGERATION)
Working Pressure	0-800psi	0-500psi
VRP-U-R	1/4" -5/16"	1/4"-1/4"
VRP-U-Y	1/4"-1/4"	1/4"-1/4"
VRP-U-B	1/4" -5/16"	1/4"-1/4"
Length	150cm	150cm

With Ball Valves: 448046F/G

Replacement Gasket : 448046H

Evacuation Hose

High - Flow Evacuation Hoses



BRAND: VALUE

Fast & efficient

- 1/2" large diameter for fast evacuation
- 4-layer construction for low permeation
- 3200 psi burst pressure, 640 psi working pressure
- Vacuum rated 20 microns

SKU	Model	Diameter	Fitting	Length
448046D	VHBY	1/2"	3/8"-3/8"	150cm

Vacuum Hose



BRAND: FIELDPIECE

- Rugged ring triple crimp to ensure long-term durability
- Small hose fittings to ensure accessibility in small spaces
- A1 and A2L compatible.

SKU	Model	Fitting	Length
448044D	HV1	3/8"-3/8"	150cm
448044E	HV1S	3/8"-1/4"	150cm

HOSES AND ACCESSORIES

Refrigerant Hoses



Set of 3 charging hoses, 1/4"SAE, 72"/180 cm blue, red & yellow, 1x straight 1/4" SAE, 1x bended 1/4" SAE with core depressor

- Long-life PTFE seal with blow-out preventer, replaceable
- 60 bar working pressure
- High-quality rubber compound for high elasticity, against hardening and embrittlement

Material: Brass | Rubber

BRAND: REFCO



SKU: 448043H

BRAND: REFCO



SKU: 448043I



SKU: 448043G

High quality charging hose for all common refrigerants with 1/4" SAE fittings. The special rubber compound is extremely durable due to its high pressure resistance and low embrittlement. All hoses are equipped with turned PTFE seals, which are anchored in the union nut by a special snap system and thus secured against blowing out.

- Replaceable PTFE seal, with blow-out protection
- High-quality material for maximum service life, against hardening and embrittlement.
- Serrated union nuts for better grip when tightening by hand
- 14mm hexagon for 1/4" SAE for mounting with wrench (16mm for 1/2"-20 UNF)



SKU: 448043E



SKU: 448043F BRAND: REFCO

Charging hose, red, R410A/R32, 60"/150 cm 1x straight 1/4" SAE, 1x bended 1/2"-20UNF (5/16" SAE) with core depressor

Hose with 1/2"-20UNF and 1/4" SAE connection

Long-life PTFE seal with blow-out preventer, replaceable

60 bar working pressure

High-quality rubber compound for high elasticity, against hardening and embrittlement

BRAND: REFCO

Vacuum Hose



SKU: 448043L

BRAND: REFCO

High performance vacuum hose for the efficient evacuation of refrigeration systems

- Vacuum-proof equipment
- Significant time gain during evacuation
- With forged male elbow to protect against moisture and dust during storage
- Does not collapse under vacuum
- Refrigerant and oil resistant

Model	VCL-60
Length	150 cm
System Connection	1/4" SAE
Device Connection	3/8" SAE
Diameter	9.5 mm
Sealing	Neoprene (CR)
Valve Core Depressor	No
Working Pressure	32 bar
Burst Pressure	128 bar
Standards	RMA Class B

Technical Data:

SKU: 448043

Model	CCL-72
Length	180 cm
System Connection	1/4" SAE bend 45°
Device Connection	1/4" SAE
Diameter	1/4"
Valve Core Depressor	YES
Working Pressure	60 bar
Burst Pressure	300 bar

Model	CL-72-B	CL-72-R	CL-72-Y
Length	180 cm		
System Connection	1/4" SAE bend 45°		
Device Connection	1/4" SAE		
Diameter	1/4"		
Valve Core Depressor	YES		
Working Pressure	60 bar		
Burst Pressure	300 bar		

Model	CL-60-B	CL-60-R
Length	150 cm	
System Connection	1/4" SAE bend 45°	
Device Connection	5/16" SAE or 1/2"-20 UNF	
Diameter	1/4"	
Valve Core Depressor	YES	
Working Pressure	60 bar	
Burst Pressure	300 bar	

SPARE PARTS

Core depressor **SKU: 448049D**



Model	Details
P-513/10	Core depressor 1/4", 10 pieces

Neoprene gasket **SKU: 448049E**



Model	Details
P-509/10	Neoprene gasket, 1/4" SAE, 10 pieces

Teflon Gaskets **SKU: 448049C**



Model	Details
P-509-T/10	PTFE gasket 1/4" SAE, 10 pieces

HOSES AND ACCESORIES

Valve Core Removal Tool



BRAND: FIELDPIECE

Technical Data:	SKU:448068L	448068M	448068N
Model	VC1E	VC1GE	VC2GE
A2L Compatible	Yes		
Size	<ul style="list-style-type: none"> 1/4" Female service port fitting standard, 5/16" fitting included 1/4" Male side port with removable valve core 		
Vacuum rating	20 microns / 0.027 millibar / 0.020 Torr		
Maximum working pressure	800 Psi		
Dimensions	107.95 x 39.62 x 38.10mm	130x 60mm	130x70mm
Weight	272g	322g	372g

VCR1 Valve Core Removal Tool



BRAND: VALUE

SKU: 448068H

For Use With Both 1/4" and 5/16" Flare Fittings

- Vacuum Rated to 20 Microns
- Rated For R410A Systems
- Metal Handle for Durability

Valve Opener



SKU	Model	Size
448068I	VVO-1	1/4"-1/4" SAE
448068J	VVO-2	1/4"-5/16" SAE
448068K	VVO-3	5/16"-5/16" SAE

Flow Control



SKU	Model	Size
448068O	WVC-1	1/4"-1/4" SAE
448068P	WVC-2	1/4"-5/16" SAE
448068Q	WVC-3	5/16"-5/16" SAE

BRAND: VALUE

Ball Valves



SKU	Model	Size
448066C	CA-1/4"SAE-1/2"-20UNF-Y	1/4" SAE-1/2"

SKU	Model	Size
448066D	CA-1/4"SAE-Y	1/4" SAE X 1/4" SAE

SKU	Model	Size
448066H	CA-1/4 SAE-1/2 -20UNF-Y 45°	1/4" SAE X 1/2"

SKU	Model	Size
448066G	CA-1/2-20UNF 45°	1/2" X 1/2"

BRAND: REFCO

Ball Valves



CV02

SKU	Description
448071B	Male: 1/4" SAE Female: 5/16" SAE 45°



CV08

SKU	Description
448071A	Male: 5/16" SAE Female: 5/16" SAE 45°



CV05

SKU	Description
448071	Male: 1/4" SAE Female: 1/4" SAE 45°



CV11

SKU	Description
448071C	Male: 5/16" SAE Female: 1/4" SAE 45°

BRAND: VALUE

THERMOPLASTIC HOSE AND FITTINGS



The market leading brand of thermoplastic hose and fittings designed specifically for Air Conditioning and Refrigeration systems. The preferred flexible choice for all pressure switch, manometer and oil line connections.



Permeability classification

according to the European Standard EN 1736:2008 for non metallic tubes used in air conditioning and refrigeration systems

Low permeability



CLASS 1

CLASS 1

CLASS 2

CLASS 3

High permeability

TEST DATA	Test temperature		
	+32 °C	+100 °C	
Test pressure	14,0	60,0	bar
QUADRA™ DN2 permeability rate	0,12	8,20	g/m2/year
QUADRA™ DN4 permeability rate	0,19	9,10	g/m2/year
QUADRA™ DN6 permeability rate	0,13	6,50	g/m2/year
Test pressure	13,3	60,0	bar
QUADRA™ DN2 permeability rate	0,11	7,63	g/m2/year
QUADRA™ DN4 permeability rate	0,17	8,46	g/m2/year
QUADRA™ DN6 permeability rate	0,11	6,05	g/m2/year
Test pressure	18,8	60,0	bar
QUADRA™ DN2 permeability rate	0,14	7,13	g/m2/year
QUADRA™ DN4 permeability rate	0,22	7,92	g/m2/year
QUADRA™ DN6 permeability rate	0,15	5,66	g/m2/year
Test pressure	7,1	60,0	bar
QUADRA™ DN2 permeability rate	0,06	8,45	g/m2/year
QUADRA™ DN4 permeability rate	0,10	9,37	g/m2/year
QUADRA™ DN6 permeability rate	0,07	6,69	g/m2/year
Test pressure	73,8	60,0	bar
QUADRA™ DN2 permeability rate	2,04	5,51	g/m2/year
QUADRA™ DN4 permeability rate	0,98	6,12	g/m2/year
QUADRA™ DN6 permeability rate	0,45	4,37	g/m2/year

R744* R134a R410A R407C R404A

Figures indicated are average of all the highest obtained values converted from Helium to refrigerant leak rate, as specified within EN 1736:2008. * test procedures according with the relevant sections of EN 1736:2008 (R744 is not included into the specification). Test at 73,7 bar has been performed at 31°C (the maximum allowable temperature for the refrigerant to have saturated pressure). Test report: BO-TIS-219890-TUV-01-03-12 issued by TÜV Italia The test method and procedures have been verified by TÜV Italia as third party. As a result of the assessment and inspection of the characteristics and performance of the permeability test machine, of the test procedures utilized, carried out at the premises of Transfer Oil S.p.A. - Italy, TÜV Italia confirms that it meets the requirements of EN 1736:2008

Transfer Oil declare that all GOMAX® QUADRA™ flexible hoses are fully compliant to the normative.

Measurement of permeability have been conducted using leak detector mass spectrometer for the measurement of sniffing helium as specified within EN 1736:2008.

Tests results for all GOMAX® QUADRA™ flexible hoses, when calculated according to EN 1736:2008, achieves CLASS 1 both at 32°C and 100 °C. CLASS 1, as indicated on Normative reference table, is the most stringent permeability category today recognized by the standard.

In reality all GOMAX QUADRA flexible hose are, on average, approximately 95% less than the maximum value allowed as specified by CLASS 1 classification within EN1736:2008.

All QUADRA capillary hoses and fittings (DN2, DN4 and DN6 included), can be used with HCFC (R22), HFC (R134a, R404A, R407A, R407B, R407C, R410A, R507),

but also CO² up to 120 bar/1740 psi from -45°C up to +130°C/ from -49°F up to + 266°F, enabling installations onto machines operating in transcritical system.



AIR CONDITIONER CLEANING COVERS



Q-532/ Q-535

Q-532 (Cleaning Cover) SKU :446010

Medium Size is suitable for circumference of less than 2.4m of air-conditioning

SIZE: FOR 9000BTU, 12000BTU,18000BTU A/C UNIT



Q-562/Q-565

Q-562 (Support plate Cleaning Cover) SKU :446010A

Applicable for air-conditioning Length 70-100cm

Q-535 (Cleaning Cover) SKU:446010B

Large Size is suitable for circumference of less than 3.2m of air-conditioning

SIZE: FOR 18000BTU, 24000BTU,36000BTU A/C UNIT

Q-565 (Support plate Cleaning Cover) SKU :446010C

Applicable for air-conditioning Length 100-130cm



BRAND: FAVORCOOL

- Fully enclosed structure
- Funnel type water connection structure
- Stepped outlet
- Environment - Friendly fabrics



Q-533(9000-12000BTU) SKU: 446010E

Q-537(18000-36000BTU) SKU: 446010F

Q-536 (Ceiling Cleaning Cover) SKU:446010D



BRAND: FAVORCOOL



The Length of the Four sides of the ceiling hood is 1.2m

AIR CONDITIONER CLEANING COVERS

CSC-1 Split A/C Cleaning Cover

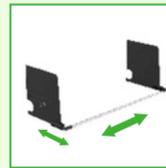
Full Protection, Easy Installation

- Made of artificial PU grade waterproof sealing strip with tight stitches
- Soft, sturdy, waterproof, corrosion resistant and durable
- The adjustable frame can change the length and suit for different split air conditioners
- Transparent front curtain can see coils' cleanliness clearly and prevents splashing
- 4 small back transparent films in the back of the A/C prevents walls from splashing



SKU:446010H

Model	CSC-1
Size	H:280*W:280*L700-1000(adjustable)
Outlet hose	5m



Adjustable frame



Transparent front curtain



Transparent back film

BRAND: WIPCOOL

CSC-2 Ceiling A/C Cleaning Cover



Hexagon design



Integrated storage



High quality waterproof material

- Widened collection surface, fully catch the waste water during cleaning
- Integrated connection design, make the assemble and disassemble easily
- Whole piece of waterproof fabric cloth to avoid any water leakage
- Come with a stretched suspension plate, free to adjust cover height easily

SKU :446010I

Model	CSC-2
Size	125cm(diameter)
Outlet hose	3m

BRAND: WIPCOOL

CSC-3S/3P Ceiling A/C Cleaning Cover



Double seal protection



Full surround design



One drainage pipe

- 360° all-round visual cleaning
- Equipped with 1.6m outpipe
- Ensures complete protection of the area around the evaporator.
- Suitable for A/C with circumference of less than 2.5 meters

SKU :446010J

SKU :446010K

Model	CSC-3S	CSC-3P
Size	2.5m(perimeter)	3.5m(perimeter)
Outlet hose	1.6m	1.6m

BRAND: WIPCOOL

AIR CONDITIONER BRACKETS

Model : G-1, G-2, G-3



Bracket for A/C Outdoor Unit

Product Description

Color: RAL9003

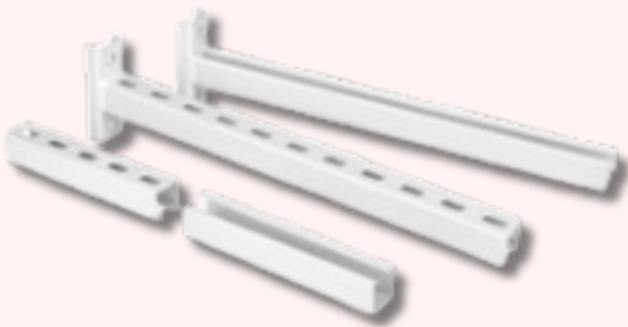
Material: Steel



PRODUCT DESCRIPTION

	Model	H (mm)	W (mm)	Thickness (mm)	N.W. (kg)	G.W. (kg)	Capacity (kg)
SKU: 451085	G-1	365	420	1.8	1.8	2.3	150
SKU: 451085A	G-2	400	450	1.8	2.2	2.7	180
SKU: 451085B	G-3	400	550	1.8	2.9	3.4	200

Model : C-3



Product Description

Color: RAL9003

Material: Steel



	Model	H (mm)	W (mm)	Thickness (mm)	N.W. (kg)	G.W. (kg)	Capacity (kg)
SKU: 451084B	C-3	350	650	2	3.5	4	200

AIR CONDITIONER BRACKETS

Foldable WHITE A/C Brackets



SKU	451086	451087
BTUS	9-12000BTU	12-24000BTU
Dimensions HxLxW	39 x41,2cmx5mm	47 x44.8X5cm
Weight	1.52kg	about 2.75 kgr
Steel Thickness	2mm	2mm
Max. Carriage at CE tests	160kg	200kg

Made of DKP steel electrostatically coated in white color

Foldable GALVANIZED A/C Brackets



SKU	451086A	451087A
BTUS	9-12000BTU	12-24000BTU
Dimensions HxLxW	39 x41,2cmx5mm	47 x44.8X5cm
Weight	1.52kg	about 2.75 kgr
Steel Thickness	2mm	2mm
Max. Carriage at CE tests	160kg	200kg

Made of galvanised steel.

Floor Support Brackets



SKU	451086B	451086C
Dimensions	430 x45x85mm	430 x45x85mm
Weight	1.15 kg	1.15 kg
Color:	White	Galvanized steel
Steel Thickness	2mm	2mm

Made of either DKP steel electrostatically coated in white color or galvanised steel.

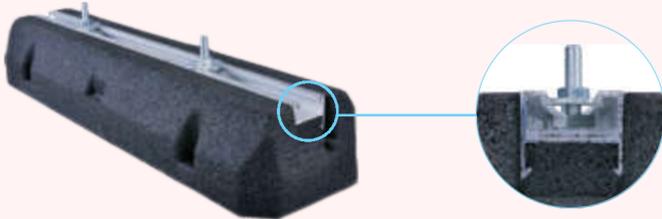
AIR CONDITIONER BRACKETS

Rubber Anti Vibration Mountings

Material: Rubber

Application: Air Conditioning

Function: Anti corrosion, Anti Vibration, Noise reduction



Accessory include:

- 2 pcs fixed screw rod.
- 2 pcs washer.
- 2 pcs nut.

SKU: 451098A

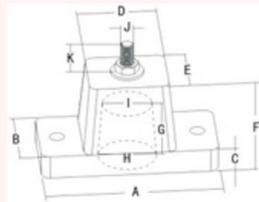
SKU: 451098B

SKU: 451098C

Model	Size(mm)	Material	N.W.(kg)	G.W.(kg)
AVB-250	250x160x95	Rubber, Alum Alloy	2.3	2.6
AVB-450	450x160x95	Rubber, Alum Alloy	4.5	4.8
AVB-600	600x160x95	Rubber, Alum Alloy	6.2	6.5
AVB-1000	1000x160x95	Rubber, Alum Alloy	10	10.3



WTG002

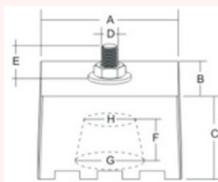


SKU: 451093

Model	A	B	C	D	E	F	G	H	I	J	K	Applicable Scope
WTG002-A	107	48	15	48	38	58	36	35	30	8	20	7500Btu-2400Btu A/C



WTG006



SKU: 451096

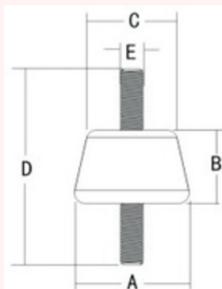
SKU: 451094

SKU: 451097

Model	A	B	C	D	E	F	G	H	Applicable Scope
WTG006-A	80	80	25	8	20				7500Btu-2400Btu A/C
WTG006-B	80	80	50	8	20	25	40	30	7500Btu-2400Btu A/C
WTG006-C	100	100	80	10	30	40	50	40	7500Btu-2400Btu A/C



WTG-AG45



SKU: 451098

Model	A	B	C	D	E	F	G	Applicable Scope
WTG-AG45	43	31	33	71	8			7500Btu-2400Btu A/C

AIR CONDITIONER INSTALLATION LIFTING CRANE TOOL

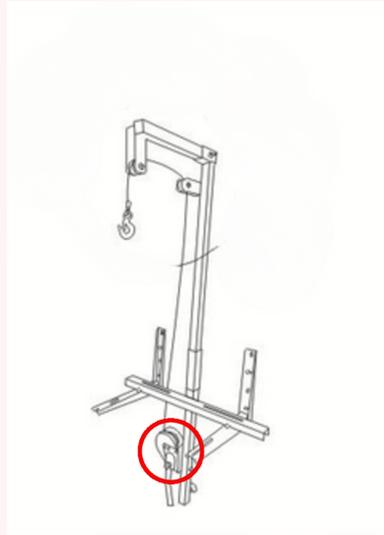
MANUAL

A/C CRANE TOP TYPE



SKU: 449122B

A/C CRANE BELOW TYPE



SKU: 449122

A/C CRANE WITH ELECTRIC MOTOR



TOP TYPE

SKU: 449122C

BELOW TYPE

SKU: 449122A

Easy Installation & Portable

It adopts split assembly, easy to install and disassemble, it can be easily completed by one person, and it can be portable to any place where it is needed.

The hand-cranked winch is easy to operate. It has a 10m steel rope and can lift up to 180kg/396lb of objects.

It improves installation efficiency.

Using air conditioning installation hoisting tools can greatly improve the reliability and safety of outdoor installation, improve efficiency, and save time and effort.

Technical Specifications

Material	Stainless Steel
Structure	Triangle Bracket
Rope length	10m
Pulley Size:	13.6x9x15.5cm
Lifting weight	up to 180kg

Package Included: Special frames for air conditioning installation; 1x Special pulley for air conditioning installation; 1x Rope.

MINI SPLIT INSTALLATION SUPPORT BRACKET



Feature

- * Allow single person installation
- * Use on all brands of mini-split
- * Does not damage walls
- * Simple clip on support

SKU: 449110

Extend (mm)	Width (mm)	Loading (kg)	Material	Color
445	230	50	Plastic ABS	Yellow

LIFTER

The Portable Lifter is designed to lift heavy objects, such as air-conditioning equipment, indoor units, electric roll-up doors, installation of decoration items, lamps, and suspension of stage lightings, etc. The lifter is light and can be carried by a single person.

Technical Specifications:	SKU:449121	449121B
Model	PL 430	PL490
Weight/Mast Weight	25.6kg	28.5KG
Dimension Platform	75x45cm	
Rated Load Weight	Above 4 meters: 90Kg Under 4 meters: 120Kg	
Portable Lifter Height	114cm	126cm
Ascension Maximum Height	427cm	490cm

Motor Replacement For PL430
SKU: 449121A



BRAND: BLACK DIAMOND

PIPE TOOLS

TUBE CUTTERS

TUBE CUTTER

MINI

Dimensions: 49X37X18mm



BRAND: BLACK DIAMOND

SMALL

Dimensions: 78X42X28mm



Technical Data

SKU: 449017

SKU: 449017B

Model	11111	11116
Range (O.D)	1/8"-5/8" (4-16mm)	1/8"-7/8" (4-22mm)
Blade	Nickel plated	Titanium Finish
Replacement Blade SKU		449018

RATCHET HANDLE

For Cutter 11116

SKU: 449018C



BRAND: BLACK DIAMOND

The ratchet handle attachment for the small tube cutter is a solution for tight work spaces that are hard to maneuver around. The spring mechanism in the tube cutter will ensure the blade is always cutting the tube. This eliminates the need to remove the ratchet handle to tighten the tube cutter.

TUBE CUTTER

Made by Lightweight Aluminum

For Copper and Aluminum Tubes, up to 1mm thickness of Stainless Tube

MEDIUM

Technical Data

SKU: 449019A

449019B

449019C



BRAND: BLACK DIAMOND

Model	11218	11311	11312
Range (O.D)	1/8"-1-1/4" (4-32mm)	1/8"-1-5/8" (4-42mm)	1/8"-1-5/8" (4-42mm)
Blade	Nickel plated	Nickel plated	Titanium Finish
Replacement Blade SKU	449018A		449018B

LARGE

Technical Data

SKU: 449019D



BRAND: BLACK DIAMOND

Model	11518
Range (O.D)	3/8"-2-5/8" (10-66mm)
Blade	Titanium Finish
Replacement Blade SKU	449018D

HEAVY DUTY TUBE CUTTER

For Copper and Aluminum Tubes, Stainless Tube up to 3mm thickness



BRAND: BLACK DIAMOND

This cutter has 6 ball bearing rollers and a ball bearing blade in titanium finish. The tube cutter is also outfitted with a dual spring design. This creates an extremely smooth cutting motion and can cut stainless steel tubes up to 3mm in thickness.

Technical Data:

SKU: 449019E

Model	11318
Range (O.D)	1/4"-1-1/4" (6-32mm)
Blade	Titanium Finish (with Ball Bearing)
Replacement Blade SKU	449018E

VTC

Tube Cutter



BRAND: VALUE

High-Quality Cutting Blade

- Sharp and durable

Ball Bearing

- Easy cutting and better quality

Aluminum Alloy

- Light weight, easy to carry and use

Technical Data:

SKU	Model	Tube O.D	SPARE BLADES SKU
449001A	VTC-19	1/8"~3/4" 3-19mm	449001AE
449001	VTC-32	1/8"~1 1/4" 4-32mm	449001AF
449001AC	VTC-42	1/4"~1 3/8" 4-35mm	449001AH

PIPE TOOLS

TUBE CUTTERS

TUBE CUTTER

RS 16
Tube cutter ø3-16 mm (1/8"-5/8")



BRAND: REFCO

Tube cutter 3-16 mm (1/8"-5/8"), including deburrer

- Three guide rollers for a precise cut
- Easily adjustable spindle for easy adjustment of the cutting wheel
- End stop prevents damage to the cutting wheel
- Including spare cutting wheel

Technical Data:

SKU:449004

Model	RS 16
Tube Diameter	3-16MM
Tube Diameter 2	1/8 - 5/8 "
Tube Material	Copper Aluminum Plastics
Material	Zinc die casting Steel

RS 25
Tube cutter ø3-25 mm (1/8"-1")



BRAND: REFCO

Tube cutter 3-25 mm (1/8" - 1"), including deburrer

- Three guide rollers for a precise cut
- Easily adjustable spindle for easy adjustment of the cutting wheel
- End stop prevents damage to the cutting wheel
- Including spare cutting wheel

Technical Data:

SKU:449004A

Model	RS 25
Tube Diameter	3 - 25 mm
Tube Diameter 2	1/8 - 1 "
Tube Material	Copper Aluminum Plastics
Material	Zinc die casting Steel

RS 35
Tube cutter ø3-35 mm (1/8"-1 3/8")



BRAND: REFCO

Tube cutter 3-35 mm (1/8"- 1 3/8"), including deburrer

- Three guide rollers for a precise cut
- Easily adjustable spindle for easy adjustment of the cutting wheel
- End stop prevents damage to the cutting wheel
- Including spare cutting wheel

Technical Data:

SKU:449004B

Model	RS 35
Tube Diameter	3 - 35 mm
Tube Diameter 2	1/8 - 1 3/8 "
Tube Material	Copper Aluminum Plastics
Material	Zinc die casting Steel

RS 42
Tube cutter ø3-42 mm (1/8"-1 5/8")



BRAND: REFCO

Tube cutter 3-42 mm (1/8"- 1 5/8"), including deburrer

- Three guide rollers for a precise cut
- Easily adjustable spindle for easy adjustment of the cutting wheel
- End stop prevents damage to the cutting wheel
- Including spare cutting wheel

Technical Data:

SKU:449004C

Model	RS 42
Tube Diameter	3 - 42mm
Tube Diameter 2	1/8 - 1 5/8 "
Tube Material	Copper Aluminum Plastics
Material	Zinc die casting Steel

SPARE BLADES



SKU:449004E

Spare cutting wheel for RS tube cutters, 3 pieces

PIPE TOOLS

DEBURRING TOOLS

DEBURRING TOOL - HD2

SKU:449065K



Titanium-coated, Sharp & Durable

Premium anodizing painted aluminum alloy handle, comfortable to grip
 Flexibly 360 degree rotated blade, fast deburring of edges, tubes and sheets
 Quality tempered high speed steel blades
 Titanium-coated surface, wear-resistant, long service life.

BRAND: WIPCOOL

DEBURRING TOOL 11902

SKU:449065G



BRAND: BLACK DIAMOND

DEBURRING TOOL VTT-5

SKU:449065E



Pen type deburrer - VTT-5 for removing internal burrs.

The main features:
 easy and quick to use
 two additional, replaceable blades included

Construction	plastic pen type
Edge	metal
Equipment	2 extra blades
Packaging	blister

BRAND: VALUE

PLASTIC DEBURRER - VRT-301

SKU:449065C



Plastic deburrer - VRT-301 VALUE for the removal of burrs from the inner and outer surface of the tube.

The main features:
 designed for copper, aluminum, PVC
 diameter of the application of 4 ~ 40 mm

Tube diameter	4 - 40 mm
Application	soft copper tubes, soft aluminum tubes, PVC
Packaging	blister

BRAND: VALUE

PIPE TOOLS

FLARING TOOLS

VFT-808L-I Flaring Tool



Technical Data: SKU: 449020

Model:	VFT-808L-I
Tube O.D	1/4", 5/16", 3/8", 1/2", 5/8", 3/4"
Packaging	Blow Case

BRAND: VALUE

VFT-809-I Flaring Tool



Technical Data: SKU: 449020A

Model:	VFT-809-I
Tube O.D	1/4", 5/16", 3/8", 1/2", 5/8", 3/4"
Packaging	Blow Case

BRAND: VALUE

FLARING TOOL Made by Lightweight Aluminum

Drill Powered Flaring Tool
An innovative flaring tool that can be used with an electric drill to flare a copper tube.

Eccentric Cone Flaring Tool
It has an internal clutch that automatically releases when the flare is complete to prevent over-flaring.

2-IN1 Flaring/ Swaging Tool
The Diamond Flaring Cone deburs and polishes the tube during the flaring process, creating an exceptional surface finishing when the flare is complete.



SKU: 449024B

Model	15546
Bar Type	6 Holes
Flare Sizes	1/4", 5/16", 3/8", 1/2", 5/8", 3/4"



SKU: 449024A

Model	14546
Bar Type	6 Holes
Flare Sizes	1/4", 5/16", 3/8", 1/2", 5/8", 3/4"



SKU: 449024

Model	14346
Bar Type	6 Holes
Flare Sizes	1/4", 5/16", 3/8", 1/2", 5/8", 3/4"

BRAND: BLACK DIAMOND

BRAND: BLACK DIAMOND

BRAND: BLACK DIAMOND

CT-900F Flaring Swaging Hand Tools



Features

- **Main Application:** These swaging tool set is able to open the copper pipe and connect the two copper pipes to each other.
- **Carbon Steel Material:** Made of high carbon steel, this swaging tool bit is strong and wear resistance, not easy to break, comes with a long life span.
- **Multiple Sizes:** There are 5 types of swaging tool. With multiple Specifications, it can meet the needs of various work scenarios. 1 x 1/4inch, 1 x 3/8inch, 1 x 1/2inch, 1 x 5/8inch, 1 x 3/4inch, 1 x Storage Box
- **Easy Operation:** Ergonomic, comfortable hand feeling, simple operation, even beginners can get started quickly.
- **Ideal Replacement:** These swaging tool bit has outstanding performance, ideal replacement for the old and damaged parts.

SKU: 449039D

VET-19Li Cordless Flaring Tool

Dimensions: 252x101x100mm



BRAND: VALUE

Electrical flaring tool VET-19-Li by means of which you can create accurate and durable connection flare in short time.

Easy Flaring

- Lithium-driven
- One-key operation, and high efficiency

Innovative Clamp

- Quick assembling
- Accurate positioning, perfect flaring

Long Battery Endurance

- 2000mAh Li-Battery Available for 90 times (3/8")
- 50W rapid charging, only 35min for fully charge

Technical Data: SKU: 449020C

Model:	VET-19Li
Battery	7.2V Li-battery
Applicable Pipe	Copper pipe
Tubing O.D	1/4", 3/8", 1/2", 5/8" (16mm), 3/4" (19mm) Options (6mm, 10mm, 12mm)
Weight	1.3kg

PIPE TOOLS

TUBE BENDERS

MULTI-SIZE TUBE BENDER



The multi-size tube bender set is an all-in-one solution for tube bending. The patented 90° Angle Indicator let the user clearly see when the tube has reached 90°. For situations when the tube needs to be bent in the opposite direction, the Reverse Bending Adapter can be attached to switch the bending direction. The color-SKUd aluminum mandrels do not deform during the bending process, so the tube material will not be damaged and will retain its roundness. For convenience, the Indexing Bending Block and the Adjustable Support Arm Allows the user to quickly adjust for different sizes without having to remove any parts.

Technical Data:

SKU:449050B

Model	12777
Mandrels	7
Mandrel Sizes	1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8"

BRAND: BLACK DIAMOND

VBT-CB1 7 in 1 Tube Bender



7 in 1

- 7 size in one Selector. easy to switch to different tubing size

Easy to Bend

- Ergonomic Handle design

Easy to release

- One Key Rotation, the copper pipe is easy to release

Reverse Bending Attachment Kit
SKU: 449020H

BRAND: VALUE

Technical Data:

SKU: 449020G

Model	VBT-CB1
Bending size	1/8"-3/4" 3-19mm
Bending angle	0-90°
Applicable Material	Soft Pipes
Weight	3.4kg

VTB-22L POWER TUBE BENDER WITH BATTERY

Dimensions: 325 x 250 x 180 mm



Battery- Driven Effortless Bending

- Powerful for large size tubing
- Push and hold 90° bending
- Automatic Tube Release

Large Lithium Battery

- Around 90 bends per charge
- Quick charge in 35 min

Patented Tubing Size Selector

- 7 sizes in one selector
- Easy to Switch to different tubing size setting

Technical Data:

SKU: 449020F

Model	VTB-22L
Battery type	7.2V 2Ah 14.4Wh
Tubing type	Soft (HVACR) Copper
Tube OD	1/4" (6mm), 5/16" (8mm), 3/8" (10mm), 1/2" (12mm), 5/8" (16mm), 3/4" (19mm), 7/8" (22mm)
Weight	2.8kg with battery
Packaging	Carry Case

BRAND: VALUE

HY-TELL HYDRAULIC TUBE BENDER



The hydraulic tube bender processes soft copper pipes with diameters from 1/4" to 7/8". With the help of the "Angle Master" the bending radius can be read off. The low weight, the ergonomic shape and the straight underside for placing on the workbench make the work much easier.

- With bending angle aid
- Little force required for tube bending
- Stable support on the table
- Easy and fast tool change
- Delivered in a sturdy plastic case

BRAND: REFCO

Technical Data:

SKU: 449051

Model	HY-TELL
Tube Diameter	6 - 22 mm
Tube Diameter 2	1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8"
Tube Material	Copper Brass Plastics
Packaging	Sturdy plastic case
Material	Steel

PIPE TOOLS

TUBE BENDERS

TUBE BENDER

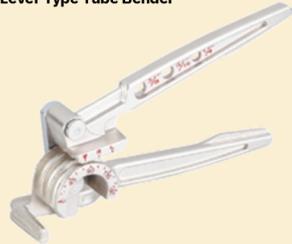
Quick Action Tube Bender-Lever type



BRAND: BLACK DIAMOND

CT-N368-180

Lever Type Tube Bender



BRAND: FAVOR COOL

SPRING BENDERS CT-102



Tools allow hand bending of soft tubing to any shape without collapsing walls. Special spring steel, zinc finish. End belled for quick tube removal.

BRAND: BLACK DIAMOND

VTB-3S

PE Bending Strip



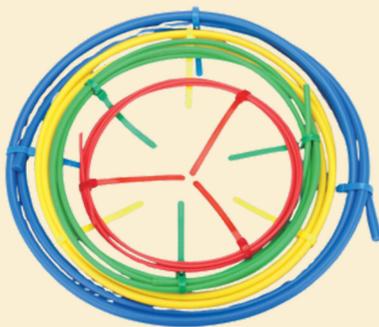
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2



3



- Flexible Construction
- No more faulty pipe bendings
- Reusable product made of durable material
- 4 sizes for most MiniSplit/ VRF applications

SKU:	449049A	449050	449050A	449050AA	449050AB
Model	12106	12108	12110	12112	12114
Tube O.D	3/8"	1/2"	5/8"	3/4"	7/8"

SKU:	449048A
Model	CT-N368-180
Tube O.D	1/4", 5/16" & 3/8"
Description	3-in-1 180° Bend radius 24mm

SKU	Model	Tube diameter
449052	CT-102-04	1/4
449053	CT-102-06	3/8
449054	CT-102-08	1/2
449055	CT-102-10	5/8
449056	CT-102-12	3/4

Technical Data:

SKU: 449020I

SKU: 449057

Model:	VTB-3S BRAND:VALUE	INC-LBSK01 BRAND:INNERBEND
Lenght	3m	4m
Color	Red/Green/Yellow/Blue	
Diameter	4mm/ 7mm/ 9mm/12mm	
Applicable Copper Tube Size	1/4"/ 3/8"/ 1/2"/ 5/8"	

PIPE TOOLS

TUBE EXPANDERS

CT-900S-A

SWAGING TOOL SET



Swaging Needle is a precision tool for creating swages on copper tubing. Swaging refers to the process of enlarging one end of a tube to fit inside another, while flaring involves creating a cone-shaped end for connecting tubing to fittings or valves.

SKU: 449039

Model	CT-900S-A
Description	Swaging Needle
Applicable Pipe	Copper pipe
Tubing O.D	1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/8", 1-1/4", 1-1/2", 1-3/4", 2", 2-1/4", 2-1/2", 2-3/4", 3", 3-1/4", 3-1/2", 3-3/4", 4", 4-1/4", 4-1/2", 4-3/4", 5", 5-1/4", 5-1/2", 5-3/4", 6", 6-1/4", 6-1/2", 6-3/4", 7", 7-1/4", 7-1/2", 7-3/4", 8", 8-1/4", 8-1/2", 8-3/4", 9", 9-1/4", 9-1/2", 9-3/4", 10", 10-1/4", 10-1/2", 10-3/4", 11", 11-1/4", 11-1/2", 11-3/4", 12", 12-1/4", 12-1/2", 12-3/4", 13", 13-1/4", 13-1/2", 13-3/4", 14", 14-1/4", 14-1/2", 14-3/4", 15", 15-1/4", 15-1/2", 15-3/4", 16", 16-1/4", 16-1/2", 16-3/4", 17", 17-1/4", 17-1/2", 17-3/4", 18", 18-1/4", 18-1/2", 18-3/4", 19", 19-1/4", 19-1/2", 19-3/4", 20", 20-1/4", 20-1/2", 20-3/4", 21", 21-1/4", 21-1/2", 21-3/4", 22", 22-1/4", 22-1/2", 22-3/4", 23", 23-1/4", 23-1/2", 23-3/4", 24", 24-1/4", 24-1/2", 24-3/4", 25", 25-1/4", 25-1/2", 25-3/4", 26", 26-1/4", 26-1/2", 26-3/4", 27", 27-1/4", 27-1/2", 27-3/4", 28", 28-1/4", 28-1/2", 28-3/4", 29", 29-1/4", 29-1/2", 29-3/4", 30", 30-1/4", 30-1/2", 30-3/4", 31", 31-1/4", 31-1/2", 31-3/4", 32", 32-1/4", 32-1/2", 32-3/4", 33", 33-1/4", 33-1/2", 33-3/4", 34", 34-1/4", 34-1/2", 34-3/4", 35", 35-1/4", 35-1/2", 35-3/4", 36", 36-1/4", 36-1/2", 36-3/4", 37", 37-1/4", 37-1/2", 37-3/4", 38", 38-1/4", 38-1/2", 38-3/4", 39", 39-1/4", 39-1/2", 39-3/4", 40", 40-1/4", 40-1/2", 40-3/4, 41", 41-1/4", 41-1/2", 41-3/4", 42", 42-1/4", 42-1/2", 42-3/4", 43", 43-1/4", 43-1/2", 43-3/4", 44", 44-1/4", 44-1/2", 44-3/4", 45", 45-1/4", 45-1/2", 45-3/4", 46", 46-1/4", 46-1/2", 46-3/4", 47", 47-1/4", 47-1/2", 47-3/4", 48", 48-1/4", 48-1/2", 48-3/4", 49", 49-1/4", 49-1/2", 49-3/4", 50"

CT-900S-4S SWAGING NEEDLE

DRILL BIT EXPANDER/SWAGING NEEDLE



SKU: 449039B

Model	CT-900S-4S
Description	4-in-1 Swaging Needle
Applicable Pipe	Copper pipe
Tubing O.D	1/4"(6mm), 3/8"(9mm), 1/2"(12mm), 5/8"(16mm)

VST-22B

Tube Expander



Easy to Use

- Simple structure for expanding copper tubing

Easy to carry

- Foldable design for portability

Spacing Groove

- To prevent over flared, ensure the accurate of tube flared

SKU: 449030C

Model:	VST-22B
Tube O.D	1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/8", 1-1/4", 1-1/2", 1-3/4", 2", 2-1/4", 2-1/2", 2-3/4", 3", 3-1/4", 3-1/2", 3-3/4", 4", 4-1/4", 4-1/2", 4-3/4", 5", 5-1/4", 5-1/2", 5-3/4", 6", 6-1/4", 6-1/2", 6-3/4", 7", 7-1/4", 7-1/2", 7-3/4", 8", 8-1/4", 8-1/2", 8-3/4", 9", 9-1/4", 9-1/2", 9-3/4", 10", 10-1/4", 10-1/2", 10-3/4", 11", 11-1/4", 11-1/2", 11-3/4", 12", 12-1/4", 12-1/2", 12-3/4", 13", 13-1/4", 13-1/2", 13-3/4", 14", 14-1/4", 14-1/2", 14-3/4", 15", 15-1/4", 15-1/2", 15-3/4", 16", 16-1/4", 16-1/2", 16-3/4", 17", 17-1/4", 17-1/2", 17-3/4", 18", 18-1/4", 18-1/2", 18-3/4", 19", 19-1/4", 19-1/2", 19-3/4", 20", 20-1/4", 20-1/2", 20-3/4", 21", 21-1/4", 21-1/2", 21-3/4", 22", 22-1/4", 22-1/2", 22-3/4", 23", 23-1/4", 23-1/2", 23-3/4", 24", 24-1/4", 24-1/2", 24-3/4", 25", 25-1/4", 25-1/2", 25-3/4", 26", 26-1/4", 26-1/2", 26-3/4", 27", 27-1/4", 27-1/2", 27-3/4", 28", 28-1/4", 28-1/2", 28-3/4", 29", 29-1/4", 29-1/2", 29-3/4", 30", 30-1/4", 30-1/2", 30-3/4", 31", 31-1/4", 31-1/2", 31-3/4", 32", 32-1/4", 32-1/2", 32-3/4", 33", 33-1/4", 33-1/2", 33-3/4", 34", 34-1/4", 34-1/2", 34-3/4", 35", 35-1/4", 35-1/2", 35-3/4", 36", 36-1/4", 36-1/2", 36-3/4", 37", 37-1/4", 37-1/2", 37-3/4", 38", 38-1/4", 38-1/2", 38-3/4", 39", 39-1/4", 39-1/2", 39-3/4", 40", 40-1/4", 40-1/2", 40-3/4", 41", 41-1/4", 41-1/2", 41-3/4", 42", 42-1/4", 42-1/2", 42-3/4", 43", 43-1/4", 43-1/2", 43-3/4", 44", 44-1/4", 44-1/2", 44-3/4", 45", 45-1/4", 45-1/2", 45-3/4", 46", 46-1/4", 46-1/2", 46-3/4", 47", 47-1/4", 47-1/2", 47-3/4", 48", 48-1/4", 48-1/2", 48-3/4", 49", 49-1/4", 49-1/2", 49-3/4", 50"



BRAND: VALUE

VHE-29E

Hydraulic Tube Expander



Hydraulic Expander

- One hand operation
- Suitable for Larger Diameter copper

Quick connect heads

- Patented expander head, 180° quick locking

SKU: 449023

Model	VHE-29E
Tube O.D	3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/8"

BRAND: VALUE

TUBE EXPANDER SET

Multi-Size Tube Expander Set



The Multi-Size Tube Expander Set Comes with our patented industry's first 1/4" expander head. For a compact and lightweight design, the expander body and expander heads are constructed out of high-grade aluminum alloy. The TPR-wrapped handles provide an ergonomic grip for the user. Each expander head contains six expander blades that are machined to precision to ensure that users can achieve a consistent result each time they use the tool.

Technical Data:

SKU: 449050C

Model	13800A
Expander heads	8
Expander head sizes	1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/8"

BRAND: BLACK DIAMOND

VTE-29D Power Tube Expander

Dimensions: 209x67x249mm



- One-Button operation
- Automatic pressure relief
- Quick connect heads
- Large capacity lithium battery
- Complete an expansion in 10 seconds
- Up to 220 expansions per charge
- Quick charge in 35 minutes
- Innovative head design minimizing 3/8" tube splitting
- Battery power indicator
- LED Flash light

Technical Data:

SKU: 449020E

Model	VTE-29D
Battery	7.2V Li-battery
Applicable Pipe	Copper pipe
Tubing O.D	3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/8"
Weight	1.5kg

BRAND: VALUE

COMPRESSORS

COPELAND Scroll Compressors (AIR CODNITIONING)

Copeland ZP Scroll Compressor Range for R410A

ZP Copeland scroll compressors, for R410A, for comfort and process precision cooling applications. Emerson has been the pioneer in launching the first complete line-up of R410A commercial scroll compressors.

ZP Copeland scroll compressors are perfectly suitable for **air-cooled chiller systems** up to 900kW (1100 kW if water-cooled) featuring high comfort and superior seasonal efficiency (SEER / SEPR / SCOP).

Whether used in stand-alone, tandem or trio configurations, the broad ZP Copeland scroll line-up meets today's market requirements with unmatched flexibility, efficiency and proven reliability. ZP104, ZP122 and ZP143KCE compressors for light commercial systems have a reduced footprint and weight for more compact systems. Their high efficiency helps to reduce operating costs.

Copeland ZR Scroll Compressor Range Range for R513A, R407C and R134a

ZR Copeland scroll compressor were developed or comfort and process/precision cooling applications using R513A, R407C and R134a.

Applied in the **air conditioning** and comfort industry for water chillers, rooftops and close control unit applications, scroll compressors are now the most used compression technology replacing reciprocating and screw compressors due to its undeniable superiority.

Several, fully Copeland qualified, multiple compressor assemblies (tandem and trio) are available to allow the use of Copeland scroll compressors into large capacity systems (ex. up to 500kW air cooled chillers) able to deliver optimal comfort, low operating cost with higher seasonal efficiency (SEER). To support the new market needs of customers, Emerson offers scroll compressors for R513A, a low-pressure refrigerant with a low GWP of 631. These ranges are able to reach 5K Superheat which allows better system performance optimization and cost.

The range of products goes from the ZR24 (2hp) to the ZR380 (30hp) for R407C and R134a and from ZR24KRE (2hp) to ZR190KRE (15hp) for R513A, R407C and R134a.

Features and Benefits

- Copeland qualified tandem and trio (now also uneven configurations for superior seasonal efficiency (SEER / SEPR / SCOP)
- Copeland scroll axial and radial compliance for superior reliability and efficiency.
- Extended 5K operating envelope suitable for heat pump applications.
- Low TEWI (Total equivalent warming impact)
- Wide scroll line-up for R410A
- Low sound and vibration level
- Low oil circulation rate



ZP scroll compressor

Features and Benefits

- Copeland scroll axial and radial compliance for superior reliability and efficiency.
- Wide scroll line-up for R407C, R134a and R513A
- Low TEWI (Total Equivalent Warming Impact)
- Low sound and vibration level
- Low oil circulation rate
- Copeland qualified tandem and trio configurations for superior seasonal efficiency (SEER)



ZR scroll compressor

Copeland Scroll Compressors



OIL CHARGING PUMP

R1 Manual Refrigeration Oil Charging Pump



BRAND: WIPCOOL

R1 Refrigeration Oil hand charging Pump provides for the addition or removal of refrigeration oil when servicing air conditioning and refrigeration systems. The pump can be used while the unit is operating. It is not necessary to shut down the system for charging. Can be used on one gallon, two and a half gallon and five gallon containers. Moves 1.7 fl. oz (50ml) per stroke against 145 psi(10bar) pressure.

Technical Data:

SKU: 448092

Model	R1
Max. Pump To Against Pressure	10bar (145psi)
Max. Pump Rate Per Stroke	50ml
Applicable Oil Bottle Size	All sizes
Hose Connect	1/4" SAE
Outlet hose	1.5m Charging Hose
Packing	Blister

Electric Refrigeration Oil Charging Pump R4

Dimensions: LxWxH: 230x144x216mm



BRAND: WIPCOOL

R4 is a portable refrigeration oil transfer pump which is ideal for charging compressor oil into large HVAC systems. With a 1/3 HP electric motor directly coupled to a fixed-displacement gear pump, oil can be pumped into your system even while in operation. Built-in thermal-overload protector for effectively preventing overloaded and a ball-type check valve is installed inside of the pump to prevent oil or refrigerant from flowing back in case of a power failure or breakdown. Keep the system in safety situation.

Technical Data:

SKU: 448001

Model	R4
Voltage	230V~/50-60Hz or 100-120V~/50-60Hz
Motor Power	1/3HP
Pump to Against Pressure(Max.)	16bar (232psi)
Flow Rate(Max.)	150L/h
Hose Connect	1/4" & 3/8" SAE

LUBRICANTS

SL32 & SL68



BRAND: SUNISO

Typical Analysis: SKU: 446004/7 & 446005A

	3	3.5	4
Density at 15°C	0.910	0.914	0.916
Viscosity at 40°C / cSt	30	43	55
Viscosity at 100°C / cSt	4.4	5.3	5.9
Flash point °C	168	175	179
Pour point °C	-40	-37	-36
Floc point °C	-54	-50	-48
Aniline point °C	74	76	77
Colour	1.0	1.0	1.0

Suniso SL synthetic refrigeration oils are formulated with select polyol ester based stocks and additives, providing outstanding lubrication, stability and corrosion protection. Suniso SL oils are miscible with HFC refrigerants at extremely low temperatures.

Suitable for use in compressors of refrigeration and air conditioning systems, working on ozone friendly alternative coolants.

REFRIGERANTS

CFC	R11, R12, R13, R131b1, R113, R114, R500, R502, R503
HCFC	R22, R123, R124, R401A, R402B, R403B, R406A, R408A, R409A
HFC	R23, R134A, R234fa, R404A, R407A, R407B, R407C, R410A, R507, R508

4G



BRAND: SUNISO

Typical analysis: SKU: 446002

	4.5G	5G
Density at 15°C	0.917	0.920
Viscosity at 40°C / cSt	68	100
Viscosity at 100°C / cSt	6.7	8.4
Flash point °C	170	182
Pour point °C	-24	-24
Floc point °C	-33	-33
Aniline point °C	82	82
Colour	2.0	L2.0

Suniso GS oils can be applied in commercial as well as in residential refrigeration and air conditioning systems.

Recommended by most major equipment manufacturers and refined from specially selected naphthenic base crude oils. Highly stable, essentially wax free, thus providing excellent low temperature properties and assuring long trouble-free life. Suniso GS oils can be used in virtually any installation, regardless of compressor or evaporation temperature and are miscible with (H)CFC refrigerants and natural refrigerants.

REFRIGERANTS

CFC	R11, R12, R13, R131b1, R113, R114, R500, R502, R503
HCFC	R22, R123, R124, R401A, R402B, R403B, R406A, R408A, R409A
Ammonia	R717
Isobutane	R600a
Propane	R290

VACUUM PUMP OIL 1L



BRAND: PETRONAS

Typical analysis : SKU: 446003

Density at 15°C	0.885
Viscosity at 40°C / cSt	68
Viscosity at 100°C / cSt	8.7
Viscosity index	98
Flash point °C	230
Pour point °C	-30
TAN mg KOH/g	1.0

Special oil for the lubrication of high vacuum pumps. Recommended for use in the majority of high vacuum pumps working with an absolute pressure of 50 microns of mercury (or 0.05torr) or even lower. Exact viscosity for fast and uniform oil distribution and perfect sealing of the narrow passages between pump blades, rotor and cylinder walls. Very low vapour pressure. Good film strength for minimum friction and lowest possible wear.

REFRIGERANTS

We provide top-quality refrigerants that ensure efficiency, reliability, and sustainability for all your cooling applications. Explore our range of products below:

Freon R404A

- Ideal for commercial refrigeration, R404A offers exceptional cooling performance for low- and medium-temperature applications.

Freon R410A

- Known for its high efficiency, R410A is perfect for residential and light commercial air conditioning systems, delivering superior energy savings.

Freon R134A

- This versatile refrigerant is used in automotive air conditioning and medium-temperature refrigeration, providing excellent cooling with environmental benefits.

Freon R449A

- As a low-GWP alternative, R449A offers an eco-friendly solution without compromising on performance for commercial refrigeration and air conditioning systems.

Freon R32

- A next-generation refrigerant, R32 provides higher efficiency and lower global warming potential, making it a preferred choice for modern air conditioning systems.

Freon R290 (Propane)

- R290 is a natural refrigerant with a very low global warming potential, suitable for eco-conscious applications in commercial and industrial cooling.

Freon R407C

- Commonly used in residential and light commercial air conditioning, R407C provides an efficient and reliable solution for both new installations and retrofits.

Freon R417A

- As an excellent replacement for R22, R417A offers effective performance in air conditioning systems while reducing ozone depletion potential.

Freon R452A

- A cost-effective refrigerant for transport and commercial refrigeration, R452A combines strong performance with environmental sustainability.

Freon R1234YF

- Designed for automotive air conditioning systems, R1234YF is a low-GWP refrigerant that provides excellent cooling efficiency while significantly reducing environmental impact, making it a more sustainable alternative to R134A



OXYGEN AND WELDING KIT



Made in Germany

SKU:	447002
Model	MINI ECO OXYGEN SET/ PERKEO

1x Oxygen cylinder 1 Ltr
1x Novacet 450gr
1x Perkeo Welding Torch
1x Oxygen pressure regulator 1x Gas pressure regulator
1x Flashback arrestor for oxygen 1x Flashback arrestor for gas
2 x Manifolds
Small carrying Case
3 meters Hoses



SKU:	447004
Model	OXYGEN SET 5LTRS /GLOOR

1x Oxygen cylinder 5 Ltrs
1x Mapp Gas 450gr
1x Gloor Welding Torch
1x Oxygen pressure regulator 1x Gas pressure regulator
1x Flashback arrestor for oxygen 1x Flashback arrestor for gas
2 x Manifolds
Trolley
3 meters Hoses

OXYGEN AND WELDING KIT

PROPANE
SKU: 447045



MAPP GAS
SKU: 447046



SELF-IGNITION HAND TORCH HT-1



FEATURES

- Aluminum Handle
- One Handed TRIGGER START
- Trigger Locks for Continuous Flame
- Dual Gas MAPP or PROPANE
- Fits All Standard MAPP & LP TANKS
- Brass and Stainless Steel Construction
- Efficient Swirl Flame

SKU: 447032
BRAND: WIPCOOL

SELF-IGNITION HOSE TORCH WITH VALVE HT-2



SKU: 447032A
BRAND: WIPCOOL

HANDHELD SELF-IGNITION TORCH HT-3 PORTABLE



FEATURES

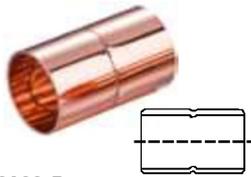
- Self-Ignition with Aluminum Housing
- Burn Tip Swivels 360°
- High Efficient Turbo Swivel Flame
- Dual gas MAPP or PROPANE
- Fits all STANDARD MAPP or PROPANE TANKS
- 100% Fire Test

SKU: 447032B
BRAND: WIPCOOL

COPPER FITTING

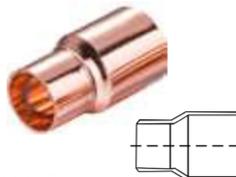
The Copper Fittings have covered ASME B16.22 , EN1254-I & ASTM B88L standards.
 EN1254-I/BS864-2 standard ranges from 6mm to 219mm .
 Products approved by UPC, NSF61, WRAS, RO HS .

SKUs: 436001 - 436098



FC100-R
Coupling with Roll-Stop CxC

SKU: 436001 - 436010C



FC101-R
Reducing Coupling CxC

SKU: 436011- 436030R



FC107-C
90° Elbow-Short Radius CxC

SKU: 436031- 436041C



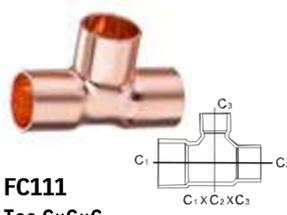
FC107-L
90° Elbow-Long Radius CxC

SKU: 436033- 436041G



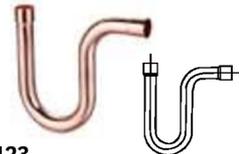
FC106
45° Elbow CxC

SKU: 436042 - 436050C



FC111
Tee CxCxC

SKU: 436051 - 436060D



FC123
Suction Line(P-Trap) CxC

SKU: 436071- 436078

BRASS FITTING



Forged Brass Nut

Part No.	
FN-04	1/4"FN-10 5/8"
FN-06	3/8"FN-12 3/4"
FN-08	1/2"FN-14 7/8"



Union

Part No.	
U-04	1/4" U-10 5/8"
U-06	3/8" U-12 3/4"
U-08	1/2" U-14 7/8"



Union Tee

Part No.	
UT-04	1/4" UT-10 5/8"
UT-06	3/8" UT-12 3/4"
UT-08	1/2"



Reducing Union (SAE*SAE)

Part No.	
RU-06x04	RU-10x06
RU-08x04	RU-10x08
RU-08x06	RU-12x08
RU-10x04	RU-12x10



Male Connector (SAE*NPT)

Part No.	
MC-04x02	MC-06x08
MC-04x04	MC-08x04
MC-04x06	MC-08x06
MC-04x08	MC-08x08
MC-06x04	MC-10x06
MC-06x06	MC-10x08

COPPER TUBES



Standard Dimensions according to European Standards (EN 12735-1)

Maximum Working Pressure calculation according to EN 14276 Standard which complies with the European Directive PED 2014/68/EU (Pressure Equipment Directive)

PANCAKES (SOFT)									
Copper tube external diameter	mm	4,76	6,35	7,94	9,52	12,70	15,87	19,05	22,22
Copper tube wall thickness	mm	0,80	0,80	0,80	0,80	0,80	1,00	1,00	1,00
Weight	Kgr/m	0,089	0,124	0,160	0,195	0,266	0,416	0,505	0,594
Working pressure	bar	216	157	123	101	75	72	58	50

STRAIGHT LENGTHS (5 METERS)														
Copper tube external diameter	mm	9,52	12,70	15,87	19,05	22,22	28,57	34,92	41,27	53,97	66,67	79,37	92,08	104,77
Copper tube wall thickness	Kgr/m	0,75	0,80	0,80	0,80	1,00	1,00	1,25	1,25	1,65	2,00	2,30	2,50	2,85
Weight	Kgr/m	0,184	0,266	0,337	0,408	0,594	0,771	1,177	1,399	2,414	3,617	4,957	6,262	8,122
Working pressure	bar	94	75	59	49	50	38	39	33	33	33	32	30	30

Standard Dimensions according to US Standards (ASTM B-280)

The values of the maximum working pressure refer to the material condition R220. A safety factor of 3.5 is used. The minus tolerance of the wall thickness is considered. No further processing is taken into account. For temperature up to 100°C.

PANCAKES (SOFT TEMPER)									
Copper tube external diameter	Inch	3/16	1/4	5/16	3/8	1/2	5/8	3/4	7/8
	mm	4,76	6,35	7,94	9,52	12,70	15,87	19,05	22,22
Copper tube wall thickness	Inch	0,030	0,030	0,032	0,032	0,032	0,035	0,035	0,045
	mm	0,76	0,76	0,81	0,81	0,81	0,89	0,89	1,14
Weight	Kgr/m	0,085	0,119	0,162	0,198	0,270	0,372	0,451	0,672
Working pressure	bar	189	137	116	96	71	54	50	56

STRAIGHT LENGTHS (HARD TEMPER, 4 OR 5 METERS)														
Copper tube external diameter	Inch	3/8	1/2	5/8	3/4	7/8	1.1/8	1.3/8	1.5/8	2.1/8	2.5/8	3.1/8	3.5/8	4.1/8
	mm	9,52	12,70	15,87	19,05	22,22	28,57	34,92	41,27	53,97	66,67	79,37	92,07	104,77
Copper tube wall thickness	Inch	0,030	0,035	0,040	0,042	0,045	0,050	0,055	0,060	0,070	0,080	0,090	0,100	0,110
	mm	0,76	0,89	1,02	1,07	1,14	1,27	1,40	1,52	1,78	2,03	2,29	2,54	2,79
Weight	Kgr/m	0,187	0,294	0,424	0,538	0,672	0,970	1,312	1,690	2,598	3,669	4,936	6,359	7,956
Working pressure	bar	89	78	71	62	56	48	44	40	36	33	31	30	29

Customized dimensions are manufactured upon request.

Packaging

Straight lengths, in bundles (hard copper tubes) and in wooden boxes (soft copper tubes) Pancakes-PNC in shrink-wrapped individual plastic bags. Depending on market requirements, products can be placed in cardboard boxes and pallets. Customised dimensions are manufactured upon request.

Air Conditioning & Refrigeration

TALOS® ACR copper tubes for heat exchanger units are available in the following forms:

Spools (LWC)

TALOS® ACR copper tubes are available in spools (LWC) with or without central support (hard carton). Spool sides may be delivered protected by “flanges” of reinforced cardboard.

“CD” coils: Spools with a “central” decoiling Spools with a “central” decoiling are especially prepared so that unwinding from the center of the coil is possible. They provide significant advantages to the user, such as reduction in packaging materials, unwinding directly from the pallet and greater weights per spool. “CD” coils of TALOS® ACR copper tubes do not require special unwinding equipment; they have lower handling costs, reducing machine downtime and increasing production efficiency.

COPPER TUBES



Insulation Technical Properties



Cross-linked Polyethylene



RESISTANCE

MATERIAL	PE-X foam
DENSITY ACCORDING TO DIN 53420 ASTM D 1667	30-33 Kg/m ³
THERMAL CONDUCTIVITY COEFFICIENT (λ) ACCORDING TO ASTM C 335	0,039 W/m.K
VAPOUR-WATER DIFFUSION RESISTANCE COEFFICIENT (μ) ACCORDING TO ISO 12572	> 9.000
WORKING TEMPERATURE	-80°C to +110°C
FIRE RESISTANCE	EN 13501-1 Class B or Class E, DIN 4102, B2, BS 476, NF P 92 501-M1
RESISTANCE TO CHEMICAL AGENTS ACC. TO ASTM 543-56 T	Very good
SOUND ABSORPTION ACC. TO DIN 4109 300-2500Hz	~60%
DIMENSIONAL STABILITY ACCORDING TO ISO 2796 FOR TEMPERATURES UP TO 100°C	<5%

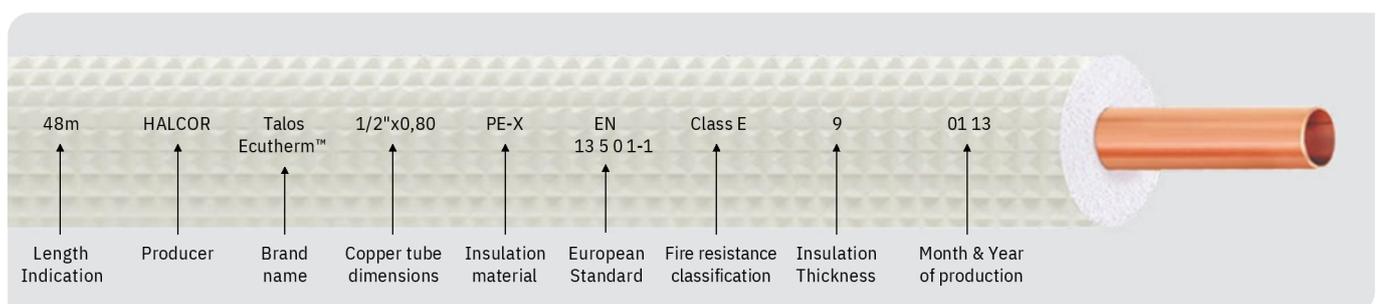
Values are listed, as obtained under standard laboratory conditions and may be amended, without prior notice.

Standard Dimensions according to EN 12735-1

Copper tube external diameter	Inch	3/16	1/4	5/6	3/8	1/2	5/8	3/4	7/8
	mm	4,76	6,35	7,94	9,52	12,70	15,87	19,05	22,22
Copper tube wall thickness	mm	0,80	0,80	0,80	0,80	0,80	1,00	1,00	1,00
Overall external diameter with 9mm thick insulation	mm	22,76	24,35	25,94	27,52	30,70	33,87	37,05	40,23
Working pressure	bar	216	157	123	101	75	72	58	50

Maximum Working Pressure calculation according to EN 14276 Standard which complies with the European Directive PED 2014/68/EU (Pressure Equipment Directive)

Marking

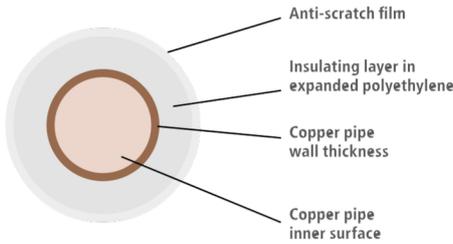


COPPER TUBES

FROSTEN® SPLIT Expanded polyethylene insulation



The copper pipe **FROSTEN® SPLIT** is manufactured by using the latest technologies, assuring the greatest protection against the attacks from the building materials. Copper is a metal whose chemical-physical characteristics are necessary for the energetic saving, the alternative energies and it is also applied in biobuilding.



Copper pipe characteristics:

Alloy: Copper Cu-DHP 99,90
 Sizes and tolerances: according to **EN 12735-1**
 Carbon residue: **< 38 mg/m²**
 Inner surface bright and specular
 Physical state: Annealed (R 220)
 Excellent corrosion strength
 Suitable for the new gases R 407 C, R 410 A and R32

Coating characteristics:

Expanded polyethylene insulation (PE)
 Colour: **WHITE**
 Insulation thickness: **approx. 7 - 9 mm**
 Fire resistance: **Self-extinguishing**
 Marking: ink marking every meter
 Odorless and atoxic, C F C-free
 Thermal conductivity at 40° C = < 0,040 W/m. K
 Average density: approx. kg./m³ 30
 Exercise temperature: - 70° C + 110° C
 Excellent steam impermeability: $\mu > 5000$

Use:

Air conditioning and refrigeration systems
 Heating pump systems

Packaging:

25 and 50 m coils individually wrapped in film.
 Every coil has a label reporting the name of the product, sizes and length. Other sizes and lengths to be coated are available on demand.



INSULATED PIPES FROSTEN® SPLIT

	Sizes OD Ø x Th.		INSULATION MIN. THICKNESS mm	COIL LENGTH mt	COILS PER PALLET nr	METERS PER PALLET mt	BURSTING PRESSURE Mpa	EXERCISE PRESSURE ASTM Mpa	WATER CONTENT l/m
	inches	mm							
SKU: 463012 (25M) 463030F (50M)	1/4"	6,35 x 0,8	7	25 50	20 18	550 1000	53,71	13,42	0,020
SKU: 463013 (25M) 463030G (50M)	3/8"	9,52 x 0,8	7	25 50	18 16	450 850	35,67	8,95	0,05
SKU: 463014 (25M) 463030H (50M)	1/2"	12,70 x 0,8	9	25 50	16 15	400 750	26,62	300	0,10
SKU: 463014A (25M) 463030I (50M)	5/8"	15,87 x 1	9	25 50	18 13	450 650	26,90	300	0,15
SKU: 463015 (25M)	3/4"	19,05 x 1	9	25	20	400	20,96	300	0,23
SKU: 463016 (25M)	7/8"	22,22 x 1	9	25	20	250	16,70	300	0,32

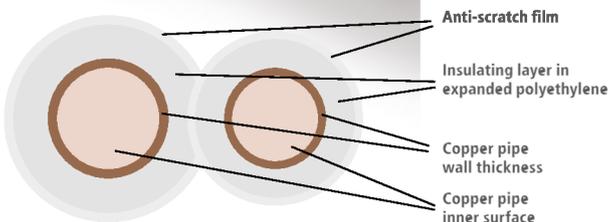


Packaging:

This product is composed by the coupling of two insulated copper pipes. 20 m coils individually wrapped in film. Every coil has a label reporting the name of the product, sizes and length. Other sizes and lengths can be coated on demand.

INSULATED PIPES FROSTEN® BI-SPLIT

	SIZE Ø INCHES	SIZE Ø mm	WALL THICKNESS mm	INSULATION MIN. THICKNESS mm	COIL LENGTH mt
SKU: 463017A	1/4 3/8	6,35 9,52	0,8 0,8	9	20
SKU: 463018	1/4 1/2	6,35 12,70	0,8 0,8	9	20
	1/4 5/8	6,35 15,87	0,8 1	9	20
	3/8 1/2	9,52 12,70	0,8 0,8	9	20
SKU: 463019	3/8 5/8	9,52 15,87	0,8 1	9	20
	3/8 3/4	9,52 19,05	0,8 1	9	20



COPPER TUBES



Copper pipes for air conditioning and refrigeration

LWC for air conditioning and refrigeration

The copper tube **CUPRUMFOMA FROSTEN** can be used in all plants for air conditioning and refrigeration and it is suitable for the use of refrigerating gas consistent with copper like R407, R410A and R32.

The in-line production control by defectomat and the continuous control of the external diameter and wall thickness guarantee the maximum safety of the FROSTEN tubes. The tubes are supplied clean, internally degreased and capped. They are produced according to the EN 12735-1 and -2 standards and they also comply with the ASTM B280 specifications.

		Ø	thickness mm	length mt
Other dimension available on request SKU: 435011B SKU: 435011A SKU: 435011 SKU: 435012 SKU: 435013	HARD STRAIGHT LENGTHS	6,35	0,8	5
		6,35	1	5
		9,52	0,8	5
		9,52	1	5
		12,7	0,8	5
		12,7	1	5
		15,88	0,8	5
		15,88	1	5
		19,05	1	5
		22,22	1	5
		25,4	1	5
		28,57	1	5
				Ø
SKU: 435005 SKU: 435006 SKU: 435007 SKU: 435008 SKU: 435009	SOFT COILS (15 mt)	6,35	0,8	15
		6,35	1	15
		9,52	0,8	15
		9,52	1	15
		12,7	0,8	15
		12,7	1	15
		15,88	0,8	15
		15,88	1	15
		19,05	1	15
22,22	1	15		



PIPE CLIPS

SKU: 461090-461091

BRAND: ASPEN

Insulclamp

Channel clip ideal for bigger commercial air conditioning and refrigeration installations.



Channel



Rod



Surface

KEY FEATURES

- Easy installation into 40mm x 40mm and 40mm x 20mm channel
- Insulates against heat loss and reduces vibration
- Quick to install with lock nuts
- Fits into shallow void
- Supports individual pipes into a thermo-rubber cushion between two metal plates
- Thermo-rubber cushion insert withstands maximum temperature of 130°C (zinc bracket 1000°C)

SPECIFICATIONS

Materials of construction	Zinc passivated steel with rubber cushion
Max. temp	130°C
Max. rec. distance per clip	1.2m

OTHER PROPERTIES

Thermal conductivity	K = 0.27 W/m°C
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Compatible with Fix-it Foot from Big Foot Systems



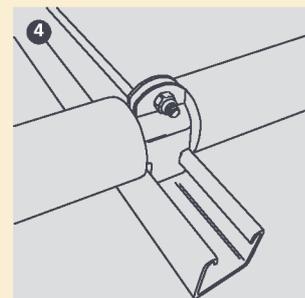
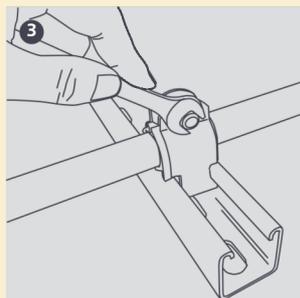
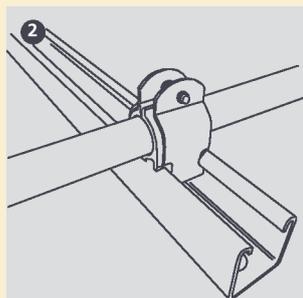
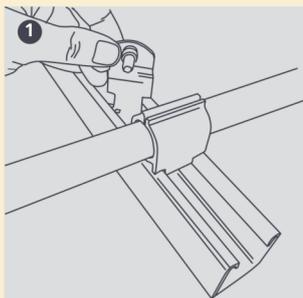
Aluminium Channel lengths available:
Part No. B6023 (3m), B6000 (1m)



For further details please refer to our website aspenpumps.com

SIZING OPTIONS

Size	Max. Unsupported Span (m)	Height Above Channel (mm)	Part No. (Plastic Bag)	Pack Qty (Plastic Bag)
1/4"	1.2	32	B6268	10
3/8"	1.2	35	B6274	10
1/2"	1.2	38	B6267	10
5/8"	1.2	41	B6276	10
3/4"	1.2	44	B6273	10
7/8"	1.2	47	B6277	10
1 1/8"	1.2	54	B6264	10
1 3/8"	1.2	60	B6265	10
1 5/8"	1.2	76	B6266	10
2 1/8"	1.2	92	B6269	5
2 5/8"	1.2	98	B6270	5
3 1/8"	1.2	117	B6271	5
3 5/8"	1.2	130	B6272	5
4 1/8"	1.2	143	B6275	5



PIPE CLIPS

SKU: 461092-461092B

BRAND: ASPEN

Pinch Clip

The Xtra Pinch Clip rod clip is ideal for air conditioning line set pairs.



KEY FEATURES

- Pinch Clip locates quickly to M8 and M10 studding
- Robust metal construction
- Snap shut lid secures pipe set
- Quick and easy pipe installation
- Wide metal construction for greater pipe support
- Can also be used for surface mount
- Ideal for when you need to meet fire regulations

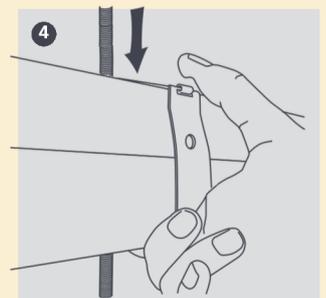
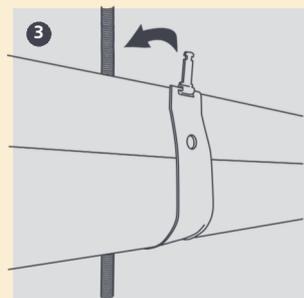
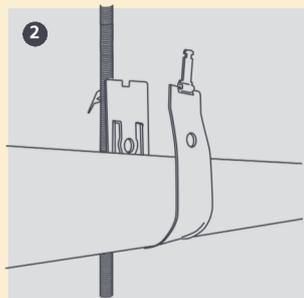
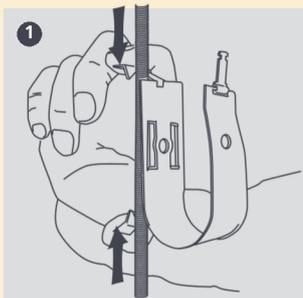
SPECIFICATIONS

Materials of construction	Powder coated mild steel
Max. temp	1000°C
Max. rec. distance per clip	1.2m

SIZING OPTIONS

Description	Liquid*	Gas*	Part No.	Pack Qty
2	3/8"	5/8"	B6561	10
3	1/2"	7/8"	B6562	10
4	5/8"	1 1/8"	B6563	10

* Approximate pipe sizes (allowing for insulation)



AIR CONDITIONING INSTALLATION SUPPLIES

PVC WIRES



SKU	DIMENSIONS
440098	3x1.5mm
440098A	3x2.5mm
440096	4x1.5mm
440097B	3x1m
444097	5x1.5mm
440097A	5x2.5mm
440099	7x1.5mm
440099B	7x2.5mm

ARMOR CABLE



SKU	DIMENSIONS
440100J	4X1.5mm
440110L	4X2.5mm
440100K	5X1.5mm
440110M	5x2.5mm
440100	7x1.5mm
440100A	7x2.5mm
440100C	12X1.5mm

GLANDS



SKU	MODEL
440100E	BW20L
440100F	BW20S

HEATER SWITCH WITH NEON



SKU	MODEL
440095	SVG 20A1GDP

SURFACE BOX



SKU	MODEL
440090	V9409

ISOLATOR



SKU	MODEL
440094	ISOLATOR 4POLE 35A IP66

ISOLATOR 20A 4POLE IP65



SKU	MODEL
440094F	SCAME ISOLATOR 20A 4POLE IP65

EXTRA CONTACT FOR ISOLATOR



SKU	MODEL
440094G	SCAME EXTRA CONTACT FOR ISOLATOR

AIR CONDITIONING INSTALLATION SUPPLIES

NYLON PLUGS



SKU	DIMENSIONS
461071	8x40mm
461069C	10x50mm
461070	10x60mm
461074	12x60mm

HEX LAG BOLTS



SKU	DIMENSIONS
461072	6x40mm
461069	8x60mm
461069A	8x70mm
461073	10x60mm
461073A	10x70mm

NYLON PLUG WITH SCREW



SKU	DIMENSIONS
461075	Nylon Plug 6x45mm Chipboard Screw 4.5x55mm



SKU	DESCRIPTION
437041	GAZA AGRYL P17X10CMX50M

TW-8 TORQUE WRENCH



SKU	MODEL	DESCRIPTION
449035	TW-8	Torque adjustable from 10 to 75 Nm Key widths: 17, 19, 22, 24, 26, 27, 29 mm

BRAND: REFCO

SUPERFLEX



SKU	DESCRIPTION
437042	SUPER FLEX WHITE 2.5 LTR
437043	SUPER FLEX WHITE 5 LTR

PVC WRAPPING TAPE



SKU	DESCRIPTION
437026	PVC 2 INCH WHITE
437026B	PVC 2 INCH BLACK
437026C	SAXON 2 INCH WHITE
437044	PYTHON BLACK 48MM
437044A	PYTHON WHITE 48MM

INSULATED TAPE



SKU	DESCRIPTION
437037C	BLACK 19mmx20cm
437037D	YELLOW GREEN 19mmx20cm
437026C	BLUE 19mmx20cm
437044	PYTHON BLACK 48MM
437044A	PYTHON WHITE 48MM

AIR CONDITIONING INSTALLATION SUPPLIES

DRAIN PVC PIPES GREY



SKU	DESCRIPTION
437058	UPVC GREY 20X1.5X4M

ACCESORIES FOR PVC PIPES



SKU	DESCRIPTION
437063	UPVC GREY 20X1.5X4M
437064	UPVC TEE GREY 20X20X20
437065	UPVC-ELBOW GREY 20-90
437065D	UPVC ELBOW 20-45 16BAR

ELECTRICIAN PVC PIPES



SKU	DESCRIPTION
437056	UPVC WHITE 16X1.35X3M
437057	UPVC WHITE 20X1.40X3M

ACCESORIES FOR ELECTRICIAN PVC PIPES



SKU	DESCRIPTION
437064A	CPVC TEE WHITE 16X16X16
437057	CPVC ELBOW WHITE 16-90 ASTM

FLEXIBLE DRAIN PIPE



SKU	SIZE
437051	1/2"
437052	5/8"
437053	3/4"
437054	7/4"

TRUCKINGS



SKU	SIZE
437059	16X16X3m
437060	25X16X3m
437060A	40X25X3m
437060B	75X50X3m

PVC HOSE FOR DRAIN PUMPS



SKU	DESCRIPTION
437048	VINYL TUBE BRAIDED 1/4INC(6MM)
437048A	VINYL TUBE BRAIDED 3/8INC(8MM)

AIR CONDITIONING INSTALLATION SUPPLIES

THERMAL INSULATION



CFC and HCFC-free, GWP zero Flexible Elastomeric thermal insulation complying with the European Standard EN 14304. Available in form of **tubes, sheets, coils and self-adhesive tapes**, EUROBATEX is a closed cell, integral vapour barrier material with a high emissivity surface making it the ideal product for condensation control on refrigeration, air conditioning and dual temperature services. It also has a **s2 smoke Classification** according to EN 13501-1 reaction to fire test for pipes and tapes. Thanks to its low thermal conductivity, EUROBATEX ensure, also at lower thicknesses, energy conservation, temperature control, personal protection or frost protection.

EUROBATEX R



CFC and HCFC-free insulation tubes in flexible expanded rubber foam (FEF) compliant to the European Standard EN 14304. These tubes are protected by a **scratch, "pecking" and UV resistant external film** of white colour (black on demand). They are suitable for the thermal insulation of refrigeration, air conditioning and heating & plumbing services in commercial, industrial and domestic applications and for all external applications within their temperature range.

437001	PIPE INSULATION 9x6 1/4
437001A	PIPE INSULATION 6x6 1/4
437002	PIPE INSULATION 9x10 3/8
437002A	PIPE INSULATION 6x10 3/8
437003	PIPE INSULATION 9x12 1/2
437004	PIPE INSULATION 9x15 5/8
437004A	PIPE INSULATION 9x18 3/4
437005	PIPE INSULATION 9x22 7/8
437006	PIPE INSULATION 9x28 1 1/8
437007	PIPE INSULATION 9X35 1 3/8
437008	PIPE INSULATION 9x42 1 5/8
437008A	PIPE INSULATION 13x10 3/8
437009	PIPE INSULATION 13X12 1/2
437011	PIPE INSULATION 13x28 1 1/8
437012	PIPE INSULATION 13x35 1 3/8
437013	PIPE INSULATION 13x42 1 5/8
437013A	PIPE INSULATION 13x54 2 1/8
437014	PIPE INSULATION 19X54 2 1/8
437014A	PIPE INSULATION 19X20 3/4
437015	PIPE INSULATION 19X22 7/8
437015A	PIPE INSULATION 19X28 1 1/8
437015B	PIPE INSULATION 19X35 1 3/8
437015C	PIPE INSULATION 19X42 1 5/8
437016	PIPE INSULATION 13X15 5/8

437016A	PIPE INSULATION 19X15 5/8
437016B	PIPE INSULATION 19X12 1/2
437017	PIPE INSULATION 13X18 3/4
437018	PIPE INSULATION 13X22 7/8
437019	PIPE INSULATION 25X18 3/4
437020	PIPE INSULATION 25X22 7/8
437020A	PIPE INSULATION 25X28 1 1/8
437020B	PIPE INSULATION 25X35 1 3/8
437020C	PIPE INSULATION 25X42 1 5/8
437020D	PIPE INSULATION 25X54 2 1/8
437020E	PIPE INSULATION 25x67 2 5/8
437020F	PIPE INSULATION 19X67 2 5/8
437020G	PIPE INSULATION 19X90 3 5/8
437020H	PIPE INSULATION 19X76 2 5/8
437020I	PIPE INSULATION 19X101
437020J	PIPE INSULATION 25X80 3 1/8
437020K	PIPE INSULATION 25X76
437020L	PIPE INSULATION 25X90
437020M	PIPE INSULATION 19X114

437021W	COATED INSULATION 13X12 1/2
437021Y	COATED INSULATION 13X15 5/8
437021Z	COATED INSULATION 13X20 3/4
437022	COATED INSULATION 13X22 7/8
437022AA	COATED INSULATION 13X35 1 3/8
437022AB	COATED INSULATION 13X42 1 5/8
437022B	COATED INSULATION 19X16 5/8
437022C	COATED INSULATION 19X18 3/4
437022D	COATED INSULATION 19X22 7/8
437022E	COATED INSULATION 19X28 1 1/8
437022F	COATED INSULATION 19X35 1 3/8
437022G	COATED INSULATION 19X42 1 5/8
437022N	COATED INSULATION 25X28 1 1/8
437022P	COATED INSULATION 25X42 1 5/8
437022Z	COATED INSULATION 19X12 1/2

437010	INSULATION SHEET 13MM X MTR
437010A	INSULATION SHEET 9MM X MTR
437010B	INSULATION SHEET 19MM X MTR

AUX AIR CONDITIONER

C-Type

Efficient, Smart, Attractive, Healthy, Comfortable. It has it all!

SKU: 463077-463077C



A+++ / A+++



C-Type Black

SKU: 463078-463078C



MODEL	ASW-H09B7A4/CAR3DI-EU	ASW-H12C5A4/CAR3DI-EU	ASW-H18E3A4/CAR3DI-EU	ASW-H24F4A4/CAR3DI-EU
Cooling Capacity Btu/h	9126	12168	18252	24674
Heating Capacity Btu/h	11154	14196	19604	25012
Power Consumption Cooling/Heating kW	0.72(0.1~1.2)	0.87(0.13~1.55)	1.43(0.29~1.95)	1.7(0.23~2.3)
Power Supply V-Hz-Ph	220v-240v	220v-240v	220v-240v	220v-240v
SEER/ WSCOP	A+++ / A+++	A+++ / A+++	A+++ / A+++	A+++ / A+++
Noise Level in/out (max) dB(A)	54/61	56/62	56/63	62/65
Air Flow Volume m3/h	700	650	1000	1300
Indoor Unit Dimensions WxDxH(mm)	774x299x202	834x299x202	1145x331x230	1145x331x230
Outdoor Unit Dimensions WxDxH(mm)	709x280x536	705x279x530	785x300x555	900x700x350
Liquid Pipe Ø	6.35(1/4)	6.35(1/4)	6.35(1/4)	6.35(1/4)
Gas Pipe Ø	9.52(3/8)	9.52(3/8)	12.7(1/2)	15.88(5/8)
Room Coverage m ²	20	25	35	50

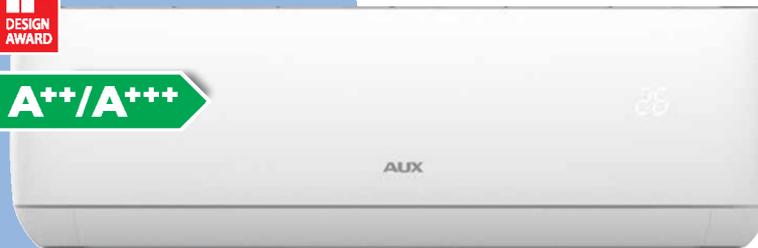
J-Smart

The J-Smart series is characterized by a minimalist, discreet styling, and ultra silent operation.

SKU: 463076-463076C



A++ / A+++



MODEL	ASW-H09B5A4/JAR3DI-EU	ASW-H12C5D4/ JAR3DI-EU	ASW-H18E3G4/ JAR3DI-EU	ASW-H24F7A4/ JAR3DI-EU
Cooling Capacity Btu/h	9126	12168	18252	24336
Heating Capacity Btu/h	10140	12844	18928	24566
Power Consumption Cooling/Heating kW	0.8(0.1~1.6)	1.18(0.1~1.6)	1.58(0.29~2.1)	2.2(0.23~2.76)
Power Supply V-Hz-Ph	220v-240v	220v-240v	220v-240v	220v-240v
SEER/ WSCOP	A++ / A+++	A++ / A+++	A++ / A+++	A++ / A+++
Noise Level in/out (max) dB(A)	54/61	53/62	57/62	63/66
Air Flow Volume m3/h	600	600	850	1300
Indoor Unit Dimensions WxDxH(mm)	792x292x201	792x292x201	940x316x224	1132x330x232
Outdoor Unit Dimensions WxDxH(mm)	705x279x530	705x279x530	785x300x555	900x350x700
Liquid Pipe Ø	6.35(1/4)	6.35(1/4)	6.35(1/4)	6.35(1/4)
Gas Pipe Ø	9.52(3/8)	9.52(3/8)	12.7(1/2)	15.88(5/8)
Room Coverage m ²	20	25	35	50

AUX AIR CONDITIONER

Q- Series

The Q Series with its inverter technology and energy class A++ guarantee high energy efficiency and reliability

SKU: 463074-463074C



Type C Remote Control



Voice Activation Module Optional



A++/A+++



MODEL	ASW-H09B4/FAR3DI-EU	ASW-H12C5E4/FAR3DI-EU	ASW-H18E0B4/FAR3DI-EU	ASW-H24FB4/FAR3DI-EU
Cooling Capacity Btu/h	9126	12168	18083	24336
Heating Capacity Btu/h	10140	12844	18590	24566
Power Consumption Cooling/Heating kW	0.85(0.1~1.6)	1.18(0.1~1.6)	1.52(0.28~1.70)	2.2(0.23~2.76)
Power Supply V-Hz-Ph	220v-240v	220v-240v	220v-240v	220v-240v
SEER/ WSCOP	A++/A+++	A++/A+++	A++/A+++	A++/A+++
Noise Level in/out (max) dB(A)	38/52	53/62	57/62	63/66
Air Flow Volume m ³ /h	600	600	850	1300
Indoor Unit Dimensions WxDxH(mm)	761x296x198	761x296x198	960x315x220	1083x327x388
Outdoor Unit Dimensions WxDxH(mm)	803x530x305	803x530x305	808x537x	961x700x
Liquid Pipe Ø	6.35(1/4)	6.35(1/4)	6.35(1/4)	6.35(1/4)
Gas Pipe Ø	9.52(3/8)	9.52(3/8)	12.7(1/2)	15.88(5/8)
Room Coverage m ²	20	25	35	50

Cassette Type

Quiet, Efficient with 360°C Airflow.

SKU: 463081-463081D



Type L Remote Control



Voice Activation Module Optional



BMS Connectivity Optional



Wired Controller Optional



Central Controller Optional



Wifi Optional



A++/A+++



MODEL	AUCA-H12/NDR3HY2A	AUCA-H18/NDR3HY2A	AUCA-H24/NDR3HY2A	AUCA-H48/SDR3HYB
Cooling Capacity Btu/h	12000(4600-15000)	18000(5200-19100)	24000(7400-28000)	48000(16241-49474)
Heating Capacity Btu/h	13000(4200-18100)	19100(4800-21200)	27300(6800-31700)	55000(16309-59028)
Consumption Cooling/ Heating kW	1.03(0.26-1.60)	1.55(0.47-2.30)	2.10(0.67-3.30)	5.20(1.71-6.70)
Rated Cooling / Heating Current (A)	4.48(1.13-6.96)	6.74(2.04-10.00)	9.13(2.91-14.35)	9.00(1.50-15.00)
SEER/SCOP	6.1/4.0	6.1/4.0	6.1/4.0	6.1/4.0
Sound Power Noise Level - (dB)	52	56	56	64
Air Flow Volume m ³ /h	700	760	1500	2000
Dimensions Net(Body)WxDxH(mm)	570x570x260	570x570x260	840x840x246	840x840x288
Weight (Body/Panel) Kg	15.5/2.2	15.5/2.2	26/5.3	30/5.3
Dimensions Net(Panel) WxDxH(mm)	650x650x55	650x650x55	950x950x55	950x950x55
Pipe (Liquid) Ø	6.35(1/4)	6.35(1/4)	9.52(3/8)	9.52(3/8)
Pipe (Gas) Ø	12.7(1/2)	12.7(1/2)	15.88(5/8)	19.05(3/4)
Applicable Area m	25	35	50	100

AUX AIR CONDITIONER

Duct Type

Discreet, Stylish design Solution.

SKU: 463082-463082D



Type L Remote Control



Voice Activation Module Optional



BMS Connectivity Optional



Wired Controller Optional



Central Controller Optional



Wifi Optional



MODEL	AUMD-H12/NDR3HM2	AUMD-H18/NDR3HM2A	AUMD-H24/NDR3HM2	AUMD-H48/SDR3HA
Cooling Capacity Btu/h	12000(4600-15000)	18000(5200-19100)	24000(7400-28000)	48000(16241-56639)
Heating Capacity Btu/h	13000(4200-18100)	19100(4800-21200)	27000(6800-31700)	55000(16309-62781)
Consumption Cooling/ Heating kW	1.03(0.26-1.60)	1.55(0.47-2.30)	2.17(0.67-3.30)	5.00(1.71-6.60)
Rated Cooling / Heating Current (A)	4.48(1.13-6.96)	6.73(2.04-10.00)	9.43(2.91-14.35)	9.00(1.50-15.00)
SEER/SCOP	6.1/4.0	6.1/4.0	6.1/4.1	6.1/4.0
Sound Power Noise Level - (dB)	52	53	55	64
Air Flow Volume m ³ /h	720	900	1400	2300
Dimensions Net(Body)WxDxH(mm)	700x700x245	700x700x245	1000x700x245	1400x700x245
Weight (Body) Kg	21	22	32	42
ESP (Pa)	25(0~160)	25(0~160)	25(0~160)	50(0~160)
Pipe (Liquid) Ø	6.35(1/4)	6.35(1/4)	9.52(3/8)	9.52(3/8)
Pipe (Gas) Ø	12.7(1/2)	12.7(1/2)	15.88(5/8)	15.88(5/8)
Applicable Area m	25	35	50	100

Floor Standing

Powerful Cooling Solution.

SKU: 463080-463080A



Type L Remote Control



Wifi Optional



4D Airflow

Experience 4-Dimensional cooling with horizontal and vertical swing action ensuring better airflow while giving uniform cooling.



Long Distance Airflow 18m

Achieving coolness throughout the room, extending up to 18 meters, for enhanced comfort and coverage.



WIFI Function

AC Freedomapp controls ACs via Wi-Fi allowing customization of modes, temperatures, and fan speeds for multiple devices with user-friendly interface.



Strong Airflow outlet

Floorstanding model features powerful airflow outlet for efficient cooling and heating, ensuring

MODEL	ASF-H24G2A4/HAR1DI-C0	ASF-H48J4A5/APAR3DI-C0
Cooling Capacity Btu/h	24000(5340-26000)	48000(21970-52390)
Heating Capacity Btu/h	24000(4732-26000)	48000(16900-54080)
Consumption Cooling/ Heating kW	2.5 (0.14-2.60)	5.35(1.30-6.00)
Rated Cooling / Heating Current (A)	7.9 (1.7-14.5)	9(2.5-10.0)
SEER/SCOP	6.2/4.0	6.1/4.0
Noise Level in/out (max) dB(A)	56	66
Air Flow Volume m ³ /h	1200	2100
Dimensions Net(Body)WxDxH(mm)	350x430x1856	580x1925x400
Weight (Body) Kg	36	52
Operation Temperature Range (°C)	16~32	16~32
Pipe (Liquid) Ø	9.52(3/8)	9.52(3/8)
Pipe (Gas) Ø	15.88(5/8)	19.05(3/4)
Applicable Area m	50	100



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