

TOOLS

Hand Tools

Tubing Cutters

Copper



- Enclosed precision feed mechanism for easy, smooth cutting
- Designed to cut softer, thinner-wall materials like copper, aluminum and brass
- Wide rollers with flare cut-off groove for convenience. Ground surface for easy rolling
- Wheel retracts into cutter body to save 1" in cutting radius
- Steel alloy wheels have a sharper cutting wheel edge for less burr on copper, aluminum and mild steel tubing
- Wheels are pinned to rotate in either direction without the screw backing out
- Fold away steel reamer with turned cutting edge for deburring
- Flare cut-off groove for quickly removing damaged flare
- Assembled in the USA

| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|---|---------------------|----------|
| 111150 | 60101 | Tubing Cutter, Cuts 1/8" to 1-1/8" Diameters | Ritchie Engineering | \$79.55 |
| 111151 | 60102 | Tubing Cutter, Cuts 1/4" to 1-5/8" Diameters | Ritchie Engineering | \$106.79 |
| 111185 | 60142 | Compact Tubing Cutter, Cuts 1/4" to 1-1/8" Diameters | Ritchie Engineering | \$104.01 |
| 111203 | 60160 | Compact Tubing Cutter, Cuts 1/8" to 5/8" Diameters | Ritchie Engineering | \$36.86 |
| 111149 | 60100 | Replacement Cutter Wheel (For Copper), Fits 60101, 60102, 60103 | Ritchie Engineering | \$18.82 |
| 128586 | R308 | Pocket Tube Swivel Deburring Tool | Malco | \$19.80 |

Plastic



| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|--|--------------|----------|
| 394395 | 12123R1 | Tube Cutter, Ratcheting, PVC, Cuts up to 1-5/8" OD | Lenox | \$127.85 |
| 394408 | 12121S1 | Tube Cutter, PEX, Cuts up to 1-5/16" OD | Lenox | \$55.40 |

Lineset Tools



| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|--|--------------|----------|
| 111237 | 60270 | Flare/burnish tool for 3/16" to 5/8" O.D. | Ritchie | \$170.86 |
| 380157 | 60278 | Deluxe flaring tool for 1/8" to 3/4" O.D | Ritchie | \$286.69 |
| 369254 | 60295 | Flaring tool with eccentric cone for 3/16" to 3/4" O. D | Ritchie | \$238.25 |
| 111271 | 60331 | Deluxe Ratchet Hand Bender Kit, Includes Reverse Bend Mandrel | Ritchie | \$371.34 |
| 322385 | 60342 | Reverse bending mandrel | Ritchie | \$163.74 |
| 111280 | 60351 | 6 Pc. Bending Spring Set - 1/4" - 5/8" | Ritchie | \$45.95 |
| 111298 | 60390 | 3-In-1 Tube Bender, 1/4", 5/16", 3/8" (Bending Radius 15/16") | Ritchie | \$75.35 |
| 111320 | 60440 | Swage/flare kit complete 3/16" to 3/4" O.D | Ritchie | \$331.28 |
| 111351 | 60476 | 5 Pc. Swaging set - 1/4", 5/16", 3/8", 1/2", 5/8" | Ritchie | \$97.97 |
| 418736 | 60493 | Hydraulic Expander Kit, Fits Up To 1-5/8" Tubing, Cutter, Reamer | Ritchie | \$787.48 |
| 383104 | FT800FN | R410A Concentric Flaring Tool, 3/16"-3/4" | CPS | \$234.34 |

Service Tools



| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|---|--------------|----------|
| 111393 | 60590 | Fan Blade Puller Complete | Ritchie | \$185.66 |
| 111397 | 60612 | 7 in. Heavy Duty Refrigeration Wrench | Ritchie | \$48.89 |
| 111398 | 60613 | Standard Duty Straight Refrigeration Wrench | Ritchie | \$33.31 |
| 111400 | 60616 | Offset Refrigeration Wrench | Ritchie | \$34.36 |
| 422773 | 60652 | Eight Head Torque Wrench Kit (16, 17, 21, 22, 24, 26, 27 and 29 mm) | Ritchie | \$315.61 |
| 111787 | 78100 | Round 3-3/4" Diameter Inspection Mirror - Stainless | Ritchie | \$36.48 |
| 111396 | 60610 | Service Wrench, With 60609 Hex Key Valve Adapter | Ritchie | \$49.10 |

TOOLS

Hand Tools

Torches and Torch Parts

TurboTorch



| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|---|--------------|------------|
| 130447 | 0386-0505 | Adapter Acetylene B Regulator to MC Tank | Turbo-Torch | \$114.28 |
| 130444 | 0386-1090 | Replacement 12' Acetylene Hose, "A" Fitting | Turbo-Torch | \$105.88 |
| 130445 | 0386-0725 | Replacement "B" Acetylene Regulator | Turbo-Torch | \$213.55 |
| 367902 | 0386-0726 | Acetylene Regulator, MC Tanks | Turbo-Torch | \$248.33 |
| 130446 | 0386-1200 | Replacement Acetylene Contents Gauge for AR-B | Turbo-Torch | \$89.92 |
| 130443 | 0386-0308 | Replacement Handle for AR-B | Turbo-Torch | \$184.65 |
| 130448 | 1421-0016 | Tote for "B" Tank | Turbo-Torch | \$148.64 |
| 130451 | 0916-0004 | Disposable Propane Tank, 14.1 Ounce | Turbo-Torch | \$18.98 |
| 373655 | 0916-0122 | Disposable Propylene Based Fuel Gas Tank, 14.1 Ounce | Turbo-Torch | \$21.06 |
| 389715 | 0386-1370 | Nitrogen Purge Kit (Regulator, Hoses, Tips, Plugs, CO2 Adapter) | Turbo-Torch | \$1,044.12 |
| 390148 | 0386-1226 | Tank Key for B & MC Tanks | Turbo-Torch | \$10.40 |
| 367903 | 1423-0023 | Round File Spark Lighter | Turbo-Torch | \$9.81 |
| 367904 | 1423-0024 | Replacement Lighter Flints for L-1, Pack of 5 | Turbo-Torch | \$8.69 |
| 130438 | 0386-0818 | Tip Swirl, Air Acetylene, Self Lighting, Up To 3/4" | Turbo-Torch | \$236.17 |
| 130439 | 0386-0834 | Tip Swirl, Air Acetylene, Self Lighting, Up To 1" | Turbo-Torch | \$244.86 |
| 130437 | 0386-0104 | Tip Swirl, Air Acetylene, Manual Light, Up to 1-5/8" | Turbo-Torch | \$201.45 |
| 130434 | 0386-0101 | Tip Swirl, Air Acetylene, Manual Light, Up to 1/2" | Turbo-Torch | \$155.00 |
| 130435 | 0386-0102 | Tip Swirl, Air Acetylene, Manual Light, Up to 3/4" | Turbo-Torch | \$178.67 |
| 130436 | 0386-0103 | Tip Swirl, Air Acetylene, Manual Light, Up to 1" | Turbo-Torch | \$191.04 |
| 160621 | 0386-0105 | Tip Swirl, Air Acetylene, Manual Light, Up to 2" | Turbo-Torch | \$242.55 |
| 130432 | 0386-0335 | Torch Kit With A-3 and A-11 Tips | Turbo-Torch | \$659.34 |
| 130433 | 0386-0338 | Torch Kit with A-5 Tip | Turbo-Torch | \$518.24 |
| 367901 | 0386-0339 | Torch Kit with A-3 and A-8 Tips | Turbo-Torch | \$661.00 |
| 326704 | 0386-0814 | Nitrogen Regulator, DOT and TC Certified | Turbo-Torch | \$159.58 |
| 317909 | 0386-0851 | Torch Swirl, MAP-Pro/LP Gas, Self Lighting | Turbo-Torch | \$204.92 |

Holesaws and Drillbits



| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|---|--------------|----------|
| 394411 | 1779801 | Hole Saw Arbor 2L. Fits hole saws 1-1/4" to 6", 1/2" Shank. | Lenox | \$51.09 |
| 394413 | 1779805 | Hole Saw Quick Change Arbor 6L. Fits 1-1/4" to 6", 3/8" Shank. | Lenox | \$49.73 |
| 394433 | 1779804 | Hole Saw Arbor 5L. Fits 9/16" to 1-3/16", 3/8" Shank. | Lenox | \$32.61 |
| 396180 | 25441 | Hole Saw, 2-9/16", Fits 2L and 7L Arbors | Lenox | \$62.50 |
| 396334 | 25469 | Hole Saw, 4-5/16", Fits 2L and 7L Arbors | Lenox | \$134.23 |
| 436717 | 30851-56PD | Repl. Pilot Drill Bit, 1/4" 3" Long, Fits Arbors 1L, 2L, 4L | Lenox | \$8.86 |
| 394441 | 1779771 | Repl. Pilot Drill Bit, 1/4", 4-1/4" Long, Fits Arbors 1L, 2L, 4L | Lenox | \$10.79 |
| 394442 | 1779810 | Repl. Pilot Drill Bit, 1/4" 3-1/4" Long, Fits Arbors 2L,3L,5L,6L,7L | Lenox | \$9.58 |
| 394389 | 30830600R | Hole Saw Kit, 8 piece. 7/8" - 2-1/2", 3/8" Shank (5L, 6L Arbors) | Lenox | \$251.50 |
| 394403 | 3006666L | Hole Saw 66L, 4-1/8", fits Arbors 2L, 3L, 6L, 7L | Lenox | \$67.54 |
| 394423 | 3004848L | Hole Saw 48L, 3", fits Arbors 2L, 3L, 6L, 7L | Lenox | \$36.44 |
| 394424 | 3004040L | Hole Saw 40L, 2-1/2", fits Arbors 2L, 3L, 6L, 7L | Lenox | \$39.71 |
| 394427 | 3003434L | Hole Saw 34L, 2-1/8", fits Arbors 2L, 3L, 6L, 7L | Lenox | \$36.83 |
| 394434 | 3003232L | Hole Saw 32L, 2", fits Arbors 2L, 3L, 6L, 7L | Lenox | \$30.49 |
| 394435 | 3002222L | Hole Saw 22L, 1-3/8", fits Arbors 2L, 3L, 6L | Lenox | \$24.26 |
| 394436 | 3002626L | Hole Saw 26L, 1-5/8", fits Arbors 2L, 3L, 6L, 7L | Lenox | \$24.26 |
| 394437 | 3001818L | Hole Saw 18L, 1-1/8", fits Arbors 1L, 4L, 5L | Lenox | \$23.06 |
| 394438 | 3001010L | Hole Saw 10L, 5/8", fits Arbors 1L, 4L, 5L | Lenox | \$20.62 |
| 394439 | 3001414L | Hole Saw 14L, 7/8", fits Arbors 1L, 4L, 5L | Lenox | \$20.62 |
| 394390 | 30912VB12 | Vari-Bit Step Drill Bit, 7/8", 1-1/8", 1-7/32", 1-1/4", 1-3/8" | Lenox | \$198.32 |
| 394392 | 30888VB11 | Vari-Bit Step Drill Bit, 7/8", 1-1/8" | Lenox | \$173.57 |
| 394393 | 30882VB2 | Vari-Bit Step Drill Bit, 9 sizes, 1/2" - 1" | Lenox | \$129.36 |
| 394394 | 30887VB7 | Vari-Bit Step Drill Bit, 7/8" | Lenox | \$108.53 |
| 394396 | 30883VB3 | Vari-Bit Step Drill Bit, 9 sizes, 1/4" - 3/4" | Lenox | \$96.05 |
| 394398 | 30881VB1 | Vari-Bit Step Drill Bit, 13 sizes, 1/8" - 1/2" | Lenox | \$74.24 |
| 97650 | WB112 | Spade Drill Bit for Wood, 1-1/2" | Malco | \$21.57 |

TOOLS

Hand Tools

Holesaws and Drillbits

| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|---|--------------|---------|
| 97653 | WB6K | 6 Piece Spade Drill Bit Set for Wood, 3/8" - 1" | Malco | \$67.22 |

Reciprocating Saw Blades



| HVAC No. | MFG Part No. | Description | Manufacturer | Package | Price |
|----------|--------------|--|--------------|---------|----------|
| 394425 | 20576800RG | Carbide Grit Edge, 8" x 3/4" | Lenox | 2/Pack | \$19.57 |
| 394428 | 20562610R | For General Purpose, 10 TPI, 6" x 3/4" | Lenox | 5/Pack | \$34.86 |
| 394388 | 20580810R | For General Purpose, 10 TPI, 8" x 3/4" | Lenox | 5/Pack | \$44.14 |
| 394446 | 20583110R | For General Purpose, 10/14 TPI, 12" x 3/4" | Lenox | 5/Pack | \$67.45 |
| 394432 | 12129635R | For General Purpose, 10/14 TPI, 6" x 3/4" | Lenox | 5/Pack | \$34.86 |
| 394417 | 12130835R | For General Purpose, 10/14 TPI, 8" x 3/4" | Lenox | 5/Pack | \$42.36 |
| 413929 | 201809118R | For Heavy Metal, Lazer Series, 18 TPI, 9" x 1" x .035" | Lenox | 5/Pack | \$61.78 |
| 394429 | 20564614R | For Metal, 14 TPI, 6" x 3/4" | Lenox | 5/Pack | \$35.91 |
| 394430 | 20566618R | For Metal, 18 TPI, 6" x 3/4" | Lenox | 5/Pack | \$35.55 |
| 394416 | 20578818R | For Metal, 18 TPI, 8" x 3/4" | Lenox | 5/Pack | \$40.43 |
| 394431 | 20568624R | For Metal, 24 TPI, 6" x 3/4" | Lenox | 5/Pack | \$34.86 |
| 394418 | 21067614GR | For Metal, Gold Series, 14 TPI, 6" x 3/4" | Lenox | 5/Pack | \$41.96 |
| 394419 | 21069618GR | For Metal, Gold Series, 18 TPI, 6" x 3/4" | Lenox | 5/Pack | \$41.96 |
| 394410 | 21070818GR | For Metal, Gold Series, 18 TPI, 8" x 3/4" | Lenox | 5/Pack | \$52.56 |
| 394420 | 21072624GR | For Metal, Gold Series, 24 TPI, 6" x 3/4" | Lenox | 5/Pack | \$41.96 |
| 394404 | 20585156R | For Wood, 6 TPI, 12" x 3/4" | Lenox | 5/Pack | \$67.45 |
| 394391 | 20530B656R | For Wood, 6 TPI, 6" x 3/4" | Lenox | 25/Pack | \$187.30 |
| 394409 | 20582956R | For Wood, 6 TPI, 6" x 3/4" | Lenox | 5/Pack | \$56.66 |
| 394422 | 20572656R | For Wood, 6 TPI, 6" x 3/4" | Lenox | 5/Pack | \$36.81 |
| 394421 | 20570636RP | For Wood, 6 TPI, 9" x 3/4" | Lenox | 5/Pack | \$41.58 |
| 394412 | 21060656GR | For Wood, Gold Series, 6 TPI, 6" x 3/4" | Lenox | 5/Pack | \$45.55 |
| 394405 | 21062956GR | For Wood, Gold Series, 6 TPI, 9" x 3/4" | Lenox | 5/Pack | \$65.50 |

Nut Drivers



| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|--|--------------|----------|
| 418725 | CONNEXT4 | 9 Piece Hex Kit, Includes Drivers, Handles | Malco | \$141.83 |
| 97558 | HHD1 | Hex Drivers, Magnetic, Long Driver, 1/4" | Malco | \$31.33 |
| 97559 | HHD2 | Hex Drivers, Magnetic, Long Driver, 5/16" | Malco | \$32.21 |
| 145055 | HHD2S | Hex Drivers, Magnetic, Standard Length Driver, 5/16" | Malco | \$30.70 |
| 145054 | HHD1S | Hex Drivers, Magnetic, Standard Length Driver, 1/4" | Malco | \$30.20 |
| 418727 | HHD1T | Hex Drivers, Magnetic, Stubby Driver, 1/4" | Malco | \$28.64 |
| 418728 | HHD2T | Hex Drivers, Magnetic, Stubby Driver, 5/16" | Malco | \$29.11 |
| 125242 | MSHXL14 | Hex Drivers, Magnetic, Chuck, 1/4" | Malco | \$28.33 |
| 130200 | MSHXL516 | Hex Drivers, Magnetic, Chuck, 5/16" | Malco | \$33.24 |
| 97590 | MSH14 | Hex Shank Power Bt, Magnetic Hex Driver, 1/4" | Malco | \$10.29 |
| 97592 | MSH516 | Hex Shank Power Bt, Magnetic Hex Driver, 5/16" | Malco | \$12.47 |
| 455725 | 4IN1 | 4-In-1 Nut Driver. 1/4", 5/16", 3/8", 7/16" | Malco | \$34.73 |

Knives and Knife Blades



| HVAC No. | MFG Part No. | Description | Package | Price |
|----------|--------------|---|---------|---------|
| 394443 | 20350GOLD5C | Utility Knife Blade, Gold Series | Malco | \$6.87 |
| 394426 | 10771FLK1 | Utility Knife, Folding, Locking, w/ Builtin Wire Stripper | Malco | \$36.35 |

TOOLS

Hand Tools

Miscellaneous



| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|--|--------------|----------|
| 97570 | L9M | Torpedo Level | Malco | \$51.28 |
| 97505 | A60 | Adjustable Scriber, From 1/4" to 12-1/2" | Malco | \$38.43 |
| 97455 | 18 | Divider, Maximum diameter circle 32" | Malco | \$37.63 |
| 145059 | WSC8 | Plier, Electrical (Cutter/Stripper/Crimper), | Malco | \$57.60 |
| 394637 | PCLED6 | Pocket 6-LED Flashlight | Ipro | \$28.48 |
| 394440 | 23931 | Screwdriver, Six In One | Lenox | \$20.18 |
| 396000 | 23932 | Screwdriver, Nine in One | Lenox | \$28.29 |
| 418729 | 1787422 | Electrician's Tote, Heavy Duty | Lenox | \$146.12 |
| 436735 | 20992 | Folding Jab Saw | Lenox | \$49.46 |
| 349019 | T425M | 1" x 25' Magnetic Tip Tape Measure | Malco | \$45.89 |
| 451055 | T425WM | 1" x 25' Magnetic Tip Writable Tape Measure | Malco | \$57.31 |

Repair Parts

| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|------------------------------------|--------------|--------|
| 97459 | 20005 | Replacement Spring, Aviation Snips | Malco | \$5.50 |

Gloves and Shoe Covers



| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|----------------|--|--------------|---------|
| 112513 | SCS-GLOVE-L-2 | Gloves, Disposable Nitrile, Large, 4 Mil, Powder Free, 100/Box | Mitco | \$54.96 |
| 112515 | SCS-GLOVE-XL-2 | Gloves, Extra Large, 4 Mil, Powder Free, 100/Box | Mitco | \$54.96 |
| 351334 | C-SB-SC-WP-DB | Shoe Covers, Waterproof, Dark Blue, Box of 40 Pairs | Shubee | \$47.21 |
| 159768 | SB-R-01 | Shoe Covers, Cloth, Red, Box of 50 Pairs | Shubee | \$54.03 |
| 144907 | SB-DB-01 | Disposable Shoe Covers, Cloth, Dark Blue, Box of 50 Pairs | Shubee | \$57.60 |

Hand Cleaners and Towels



| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|------------------------------------|--------------|---------|
| 322170 | 5-42272 | Waterless Hand Wipes, Bucket of 75 | WypAll | \$31.12 |
| 369888 | 5-05790 | Wipe All Plus Towels, Box of 100 | WypAll | \$24.21 |
| 369886 | 5-34790 | Teri Towels, Box of 126 | WypAll | \$32.95 |
| 369887 | HCP-15 | Pumice Hand Cleaner 15oz | Fast Orange | \$13.21 |

Duct Tools

Sheet Metal

Snips



| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|---|--------------|----------|
| 425605 | AV1 | Snip, Straight, Cuts Left (Red Handle) | Malco | \$25.60 |
| 425607 | AV2 | Snip, Straight, Cuts Right (Green Handle) | Malco | \$25.60 |
| 425609 | AV3 | Snip, Straight, Cuts Multi (Yellow Handle) | Malco | \$25.60 |
| 442821 | AV6 | Snip, Offset, Cuts Left (Red Handle) | Malco | \$35.05 |
| 442823 | AV7 | Snip, Offset, Cuts Right (Green Handle) | Malco | \$32.95 |
| 415728 | AV8 | Snip, Vertical, Cuts Left (Red Handle) | Malco | \$40.24 |
| 415729 | AV9 | Snip, Vertical, Cuts Right (Green Handle) | Malco | \$55.48 |
| 125240 | MC12N | Snip, Andy 12" Aluminum Handled | Malco | \$87.70 |
| 424742 | M2004 | Snip, Double Cut (Yellow Handle) | Malco | \$113.74 |
| 394414 | 22103103 | Snip, Straight, Cuts Multi-Direction, Yellow Handle | Lenox | \$41.94 |
| 394406 | 22206206 | Snip, Offset, Cuts Left (Red Handle) | Lenox | \$58.30 |
| 394407 | 22207207 | Snip, Offset, Cuts Right (Green Handle) | Lenox | \$58.30 |

TOOLS

Duct Tools

Sheet Metal

Hand Forming Tools-Seamers



| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|----------------------------------|--------------|----------|
| 394397 | 22210S2 | 3 Inch Seamer | Lenox | \$92.27 |
| 411577 | S3R | Offset Hand Seamer, 3" Wide Jaws | Malco | \$131.65 |
| 411578 | S6R | Offset Hand Seamer, 6" Wide Jaws | Malco | \$160.90 |

Hand Forming Tools-Pipe Duct Cutter



| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|------------------|--------------|---------|
| 394401 | 22213PDC4R | Pipe Duct Cutter | Lenox | \$72.87 |

Hand Forming Tools-Crimpers



| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|-----------------|--------------|---------|
| 394399 | 22209C5 | 5 Blade Crimper | Lenox | \$74.91 |
| 394415 | 22208C3 | 3 Blade Crimper | Lenox | \$47.36 |

Hand Forming Tools-V-Notch



| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|------------------|--------------|---------|
| 394400 | 22211N2 | 1 Inch V-Notcher | Lenox | \$72.87 |

Hand Forming Tools-Punch



| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|-----------------|--------------|---------|
| 394402 | 22212SL1 | Snap Lock Punch | Lenox | \$72.87 |

Hand Forming Tools-Duct Stretcher



| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|------------------------------------|--------------|---------|
| 97516 | DS1 | Duct Stretcher | Malco | \$63.67 |
| 97518 | DS2 | Duct Stretcher with Offset Handle | Malco | \$67.52 |
| 97517 | DSC1 | Replacement Wheel Set for DS1, DS2 | Malco | \$20.27 |

Hand Forming Tools-Folding Tools



| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|--|--------------|---------|
| 97448 | 12F | Folding Tool, 12" Long, 3/8" and 1" Depths | Malco | \$36.60 |
| 97456 | 18F | Folding Tool, 18" Long, 3/8" and 1" Depths | Malco | \$51.09 |
| 97461 | 24F | Folding Tool, 24" Long, 3/8" and 1" Depths | Malco | \$69.72 |

TOOLS

Duct Tools

Sheet Metal

Hole Cutters



| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|--|--------------|----------|
| 97556 | HC2 | Large Diameter Hole Cutter, Hole Sizes 2" - 20", Cuts up to 20 ga. | Malco | \$191.60 |
| 97553 | HC1 | Large Diameter Hole Cutter, Hole Sizes 2" - 12", Cuts up to 20 ga. | Malco | \$158.45 |
| 97554 | HC1B | Pivot Pin Set for HC1 | Malco | \$26.00 |
| 378910 | HC1D | Thrust Bearing | Malco | \$48.95 |
| 378911 | HC1E | Adjustment Sleeve w/Screw | Malco | \$19.68 |
| 378912 | HC1G | Guide for HC1 | Malco | \$6.32 |
| 378914 | HC1I | Shoe Screw | Malco | \$5.04 |
| 378915 | HC1K | Redesigned Ball Bearing for HC1 for Black Casting | Malco | \$24.32 |
| 352122 | CBB | Cutting Bits for HC-1 & HC-3, Pack of 6 | Malco | \$140.55 |
| 97511 | CB | Replacement Cutter Bit for HC1 and HC2, Pack of 1 | Malco | \$29.27 |

Shears



| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|--|--------------|----------|
| 323718 | TSHD | TurboShear with 360 Degree Rotating Head | Malco | \$224.34 |
| 323176 | TSDC | Drill Clamp Kit w/360 Degree Feature for TS1 | Malco | \$53.91 |
| 162440 | TS1 | TurboShear Tool, Fits Drills | Malco | \$128.02 |
| 162441 | TS1RB | Replacement Blade Set for TS1 | Malco | \$67.56 |

Fiberglass

Staple Gun



| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|---------------|--|--------------|----------|
| 84046 | T6-80C2 | Staple Gun, Outward Clinch, Uses 3/8", 1/2" or 9/16" Staples | Bostich | \$146.24 |
| 356381 | STCR5019-1/2 | 1/2" Staples for T6-80C2, Box of 4000 | Bostich | \$27.43 |
| 84079 | STCR5019-3/8 | 3/8" Staples for T6-80C2, Box of 5000 | Bostich | \$27.43 |
| 84080 | STCR5019-9/16 | 9/16" Staples for T6-80C2, Box of 4000 | Bostich | \$29.04 |

Hand Tools



| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|--|--------------|---------|
| 413335 | HVAC-TAPE3 | Handheld Dispenser for 3" Aluminum Foil Tape | Supreme | \$88.54 |

Radiant

Tubing Stapler



- Automatically adjusts to setup staple and guides it through the fastening mechanism without risk of jamming or deforming
- Staple strips are joined together, allowing staples to separate cleanly as they are engaged
- Made in the USA

| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|-------------------------------------|--------------|----------|
| 352693 | FBSN | Foamboard Radiant Tubing Stapler | Malco | \$598.21 |
| 352694 | FBSN1 | 1-1/2" Staples for FBSN, Box of 200 | Malco | \$61.95 |
| 352695 | FBSN2 | 2-1/2" Staples for FBSN, Box of 200 | Malco | \$65.88 |

TOOLS

Duct Tools

Flex Duct

Hand Tools-Tensioning Tool



- Works with 175 lb ties and 125 lb ties
- Made in the USA

| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|---------------------------------------|--------------|----------|
| 97644 | TY4G | Tensioning Tool with Manual Cutoff | Malco | \$95.78 |
| 97645 | TY6 | Tie Tool with Adjustable Auto Cut-Off | Malco | \$125.60 |

Fiberglass

Hand Tools-Knives



| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|--|--------------|---------|
| 97524 | FGFL | Female Shiplap Knife for 1 1/2" Board, Red Handle | Malco | \$45.26 |
| 97523 | FGF | Female Shiplap Knife for 1" Board, Green Handle | Malco | \$43.39 |
| 97526 | FGM | Male Shiplap Knife for 1" Board, Blue Handle | Malco | \$43.39 |
| 97527 | FGML | Male Shiplap Knife for 1-1/2" Board, Yellow Handle | Malco | \$45.72 |
| 354410 | DK6S | Serrated Duct Knife With Sheath | Malco | \$37.13 |

Hand Tools-Hole Cutter



| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|--|--------------|---------|
| 97522 | FG1 | Hole Cutter for 1" Ductboard, 4"-20" | Malco | \$98.03 |
| 97566 | KBHC | Optional Blade for FG1 Hole Cutter to cut 1-1/2" Board | Malco | \$17.85 |

Flex Duct



| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|------------------|--------------|---------|
| 97520 | FDC1 | Flex Duct Cutter | Malco | \$99.62 |

Refrigeration Tools

Service Kits



- Single kit takes the guesswork out of finding the right tool for the job on a minisplit service call. Includes:
- Heat Pump Manifold
- 60" PLUS II Hoses
- Eccentric Cone Flare Tool
- Hex Key Set
- Vacuum/Charge Valve with Side Port
- Adjustable Metric Torque Wrench
- 45 Degree R410A Coupler 5/16" Female Quick Coupler x 1/4" Male Flare
- Tube Cutter and Deburring Tool
- 16" Tool Bag

| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|-----------------------------|--------------|----------|
| 457668 | 60991 | Mini-Split Service Tool Kit | Ritchie | \$978.47 |

Weigh Scale



- Eliminates refrigerant transfer from tank to cylinder to system
- Works with any refrigerant in any system

| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|---|--------------|----------|
| 369501 | 68802 | Digital Electronic Charging Scale, 110 pounds | Ritchie | \$604.59 |

TOOLS

Refrigeration Tools

Adaptors and Couplers



| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|---|--------------|---------|
| 109773 | 19105 | Cylinder Valve Adapter, 125 & 145 Pound Cylinder | Ritchie | \$37.04 |
| 109775 | 19109 | SealRight™ Quick Coupler, 1/4", Straight | Ritchie | \$36.79 |
| 368784 | 19121 | Quick Coupler, 5/16", Straight by 1/4" Male Flare | Ritchie | \$28.39 |
| 109790 | 19131 | Adapter, 1/2" Female Flare by 3/8" Male Flare | Ritchie | \$22.55 |
| 109821 | 19209 | SealRight™ Coupler, 1/4" 90 Degree by 1/4" Male Flare | Ritchie | \$35.91 |
| 368772 | 41123 | 1/4" Liquid Charging Adapter | Ritchie | \$25.89 |
| 111395 | 60609 | Hex Key Valve Adapter, Fits 3/16" and 5/16" | Ritchie | \$25.20 |
| 111396 | 60610 | Service Wrench, With 60609 Hex Key Valve Adapter | Ritchie | \$49.10 |
| 111770 | 78076 | Test Gauge, 0-15 PSI Range, Fits 1/2" NPT | Ritchie | \$37.11 |
| 109696 | 18001 | Replacement Gasket for Cylinder Valve Adapter 19105 | Ritchie | \$19.05 |

Manifolds and Gauges

Analog



- Fourth hose to enable connection to hi-/lo-sides, refrigerant tank and recovery unit or vacuum pump for diagnostics, evacuation and charging without switching hoses
- 3/8" Vacuum port for use with larger hose to cut evacuation time by up to 33% (all other fittings are 1/4")
- Front access for easy field recalibration
- Double "O" ring piston for reliability and long service life
- Exclusive 100 mesh filter in-line on all flare fittings helps keep out particulate material and extend the life of the seats
- Sight glass to easily view refrigerant movement and condition during charging and recovery
- Heavy duty hook won't pull out
- Also available with 3-1/2" (80 mm) red and blue liquid-filled gauges
- Manifold and hose holder fittings 1/4"-3/8"-1/4"-1/4" unless otherwise identified
- Made in the USA

| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|--|--------------|----------|
| 369464 | 49968 | Titan™ Manifold, 4-Valve, With 60" Hoses | Ritchie | \$500.16 |
| 356512 | 46013 | Brute II™ 4-Valve Manifold, Scaled for R22/404A/410A, With 60" Hoses | Ritchie | \$680.38 |
| 369463 | 49960 | Titan™ 4-Valve Manifold, Scaled for R410A, With 60" Hoses | Ritchie | \$500.16 |
| 112143 | 93850 | SuperEvac™ Evacuation Manifold, Single Valve | Ritchie | \$170.08 |
| 369283 | 42004 | Series 41 Manifold, 2-Valve, Scaled for R410A/22, With 60" Hoses | Ritchie | \$248.26 |
| 440338 | 42041 | Manifold Only, Heat Pump, Scaled for R22/407C/410A | Ritchie | \$170.14 |
| 368725 | 49100 | Repl. Crystal, 80mm, For Titan™ Manifold | Ritchie | \$13.38 |
| 368924 | 49137 | Repl. Gauge, Red, Fits Titan™ Manifold, Scaled for R22/404A/410A | Ritchie | \$55.86 |
| 368925 | 49138 | Repl. Gauge, Blue, Fits Titan™ Manifold, Scaled for R22/404A/410A | Ritchie | \$55.86 |
| 368922 | 49135 | Repl. Gauge, Red, Fits Titan™ Manifold, Scaled for R32/410A | Ritchie | \$49.16 |
| 368923 | 49136 | Repl. Gauge, Blue, Fits Titan™ Manifold, Scaled for R32/410A | Ritchie | \$49.16 |
| 369387 | 46010 | Brute II 2-Valve Manifold R410A/404A/22 | Ritchie | \$365.27 |

Digital



- Target superheat automatically calculated
- All 9 measurements display together on the large, easy to read screen
- Works with JL2 Job Link Transmitter and SDP2 Dual In-Duct Psychrometer for diagnostics, data storage and reporting
- Large 3/8" full bore and VAC port
- Provides measurements for 45 refrigerants

| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|---|--------------|------------|
| 418721 | SMAN460 | Wireless Digital Manifold, 4-Valve, Connects to JL2 | Fieldpiece | \$1,275.88 |

Misc. Refrigeration Tools

| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|--|-----------------|----------|
| 109729 | 18975 | 1/4" Vacuum/Charge Valve, With Side Port | Ritchie | \$127.03 |
| 111684 | 69562 | Oil Injector, 4 Ounce, 1/4" Male x 1/4" Female | Ritchie | \$181.25 |
| 93424 | QT2000 | QwikCheck® Acid Test Kit | Mainstream Eng. | \$20.31 |
| 392794 | TPC8000 | Clampon Temperature and Pressure gauge. Fits 3/8" - 1-1/8" diameters | Supco | \$90.11 |

TOOLS

Refrigeration Tools

Leak Detectors

MARS Series 253 Leak Detectors



| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|---|--------------|------------|
| 92925 | 25303 | H-10G Universal Refrigerant Leak Detector | MARS | \$1,281.19 |



| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|---|--------------|------------|
| 369188 | 69702 | Universal Dye Injector Kit, Two Injectors With Hose | Ritchie | \$108.21 |
| 322411 | 69712 | Universal Dye, 8 Ounce Container | Ritchie | \$94.69 |
| 369067 | 69721 | 2-Pack of 1-Ounce Universal Dye Injectors | Ritchie | \$94.69 |
| 369325 | 69789 | Ultraviolet LED Flashlight and Dye Kit for AC/R | Ritchie | \$301.14 |
| 422674 | SRL2K7 | Digital Infrared Refrigerant Leak Detector | Fieldpiece | \$734.98 |
| 444897 | 3015-8004 | Refrigerant Leak Detector, Visible and Audible Indicators, Model H-10 | Bacharach | \$1,083.43 |

Refrigerant Recovery Unit



- Compact and lightweight: Weighs only 24 lbs
- Twin Cylinders and Twin Condensers for ultra fast recovery
- Refrigerant-Isolated Crankcase, eliminating bearing contamination
- Pumps R410A liquid and vapor

| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|---------------------------|--------------|------------|
| 354742 | G5 TWIN | Refrigerant recovery unit | Appion | \$1,549.86 |
| 382808 | TEZOM | Oil Cartridge | Appion | \$27.28 |

Repair Kits and Gaskets



| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|--|---------------------|---------|
| 109743 | 19011 | Replacement 3/8" Refrigerant Hose Gasket, Fits Evac Manifold 93850 | Ritchie Engineering | \$35.30 |
| 109746 | 19020 | Replacement 1/4" and 5/16" Refrigerant Hose Gasket, 10-Pack | Ritchie Engineering | \$13.02 |
| 109755 | 19040 | SealRight Repair Kit, 1/4" with Valve, Gasket, Plug, Spring, 2 O-Rings | Ritchie Engineering | \$26.65 |

Fin Straightening Tools



| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|--|--------------|---------|
| 367899 | FST | Fin Straightening Tool for 8-14 fins/inch | Malco | \$30.60 |
| 367900 | FST2 | Fin Straightening Tool for 16-22 fins/inch | Malco | \$30.60 |

ZoomLock Tools

Jaws and Kits for Klauke 15kN Tools



- ZoomLock fittings reduce labor time by up to 60% when installing refrigerant lines
- Braze-free means flame-free. Safer and no fire spotter required
- A full range of ZoomLock tools is available
- Klauke tools are the standard brand offered as part of the ZoomLock line

| HVAC No. | MFG Part No. | Description | Price |
|----------|--------------|--|------------|
| 462816 | PZK-TK190 | Klauke Tool Kit, No Jaws (order jaws as needed) | \$4,410.40 |
| 461554 | PZK-TK195 | Klauke Jaw Tool Kit, Sizes: 3/8", 1/2", 5/8", 7/8", 1-1/8" | \$6,409.66 |
| 457135 | J4-J18 | Klauke 15 kN Jaw Kit, Sizes: 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8", 1-1/8" | \$2,701.71 |
| 457127 | PZK-J4 | 1/4" Klauke Jaw, 15kN | \$338.98 |
| 457128 | PZK-J5 | 5/16" Klauke Jaw, 15kN | \$338.98 |
| 457129 | PZK-J6 | 3/8" Klauke Jaw, 15kN | \$338.98 |
| 457130 | PZK-J8 | 1/2" Klauke Jaw, 15kN | \$338.98 |
| 457131 | PZK-J10 | 5/8" Klauke Jaw, 15kN | \$338.98 |
| 457132 | PZK-J12 | 3/4" Klauke Jaw, 15kN | \$338.98 |

TOOLS

Refrigeration Tools

ZoomLock Tools

Jaws and Kits for Klauke 15kN Tools

| HVAC No. | MFG Part No. | Description | Price |
|----------|--------------|-------------------------|----------|
| 457133 | PZK-J14 | 7/8" Klauke Jaw, 15kN | \$338.98 |
| 457134 | PZK-J18 | 1-1/8" Klauke Jaw, 15kN | \$338.98 |

Jaws and Kits for Klauke 19kN Tools



- ZoomLock fittings reduce labor time by up to 60% when installing refrigerant lines
- Braze-free means flame-free. Safer and no fire spotter required
- A full range of ZoomLock tools is available
- Klauke tools are the standard brand offered as part of the ZoomLock line

| HVAC No. | MFG Part No. | Description | Price |
|----------|--------------|---|------------|
| 462815 | KJ4-KJ22 | Klauke 19kN Jaw Kit, 1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1-1/8", 1-3/8" | \$3,801.29 |
| 461555 | PZK-KJ4 | 1/4" Klauke Jaw, 19kN | \$447.45 |
| 462807 | PZK-KJ5 | 5/16" Klauke Jaw, 19kN | \$447.45 |
| 462808 | PZK-KJ6 | 3/8" Klauke Jaw, 19kN | \$447.45 |
| 462809 | PZK-KJ8 | 1/2" Klauke Jaw, 19kN | \$447.45 |
| 462810 | PZK-KJ10 | 5/8" Klauke Jaw, 19kN | \$447.45 |
| 461556 | PZK-KJ12 | 3/4" Klauke Jaw, 19kN | \$477.98 |
| 462811 | PZK-KJ14 | 7/8" Klauke Jaw, 19kN | \$477.98 |
| 462812 | PZK-KJ16 | 1" Klauke Jaw, 19kN | \$477.98 |
| 462813 | PZK-KJ18 | 1-1/8" Klauke Jaw, 19kN | \$477.98 |
| 461557 | PZK-KJ22 | 1-3/8" Klauke Jaw, 19kN | \$718.66 |

Jaws and Kits for Ridgid Tools



- ZoomLock fittings reduce labor time by up to 60% when installing refrigerant lines
- Braze-free means flame-free. Safer and no fire spotter required
- A full range of ZoomLock tools is available
- Many contractors already own Ridgid compression tools. These jaws fit the Ridgid RP 100-B, 200-B, and 210-B models

| HVAC No. | MFG Part No. | Description | Price |
|----------|--------------|--|------------|
| 459848 | 770219 | Ridgid Jaw Kit, Sizes: 1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1-1/8", 1-3/8", Compatible with Ridgid RP 100-B, 200-B, 210-B (Sold through Ridgid distributors.) | \$4,302.02 |
| 457137 | PZK-RJ4 | 1/4" Ridgid Jaw | \$525.42 |
| 457138 | PZK-RJ5 | 5/16" Ridgid Jaw | \$525.42 |
| 457139 | PZK-RJ6 | 3/8" Ridgid Jaw | \$525.42 |
| 457140 | PZK-RJ8 | 1/2" Ridgid Jaw | \$525.42 |
| 457141 | PZK-RJ10 | 5/8" Ridgid Jaw | \$525.42 |
| 457142 | PZK-RJ12 | 3/4" Ridgid Jaw | \$525.42 |
| 457143 | PZK-RJ14 | 7/8" Ridgid Jaw | \$525.42 |
| 462814 | PZK-RJ16 | 1" Ridgid Jaw | \$525.40 |
| 457144 | PZK-RJ18 | 1-1/8" Ridgid Jaw | \$525.42 |
| 457145 | PZK-RJ22 | 1-3/8" Ridgid Jaw | \$525.42 |

ZoomLock Tool Accessories



- For a complete and top quality job, these ZoomLock tools are also available

| HVAC No. | MFG Part No. | Description | Price |
|----------|---------------------|--------------------------------|------------|
| 457123 | PGA1 | Diagnostic Tool | \$1,476.13 |
| 457125 | PZK-IDGP | Depth Gauge, Plastic | \$22.79 |
| 457120 | PZK-GNG1 | Repl. Crimp Gauge | \$17.87 |
| 457124 | PZK-IDGM | Repl. Depth Gauge, Metal | \$22.79 |
| 457126 | 770016 | Replacement Tool Case, Klauke | \$300.32 |
| 462805 | 770240 | Replacement 8 Jaw Case, Klauke | \$311.47 |
| 462806 | 770220 | Replacement 9 Jaw Case, Rigid | \$327.08 |
| 457122 | TUBE DEBURRING TOOL | Approved Deburring Tool | \$128.02 |
| 457121 | TUBING CUTTER | Approved Tubing Cutter | \$97.52 |
| 457115 | PZK-TK0 | Repl. Klauke Tool Kit | \$3,929.96 |

TOOLS

Refrigeration Tools

Vacuum and Charging Hoses



- Compatible with both POE and PVE oils
- Made in the USA

| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|--|--------------|----------|
| 110191 | 26060 | Plus II™ Hose, 3/8", 60" Long, Straight x FlexFlow | Ritchie | \$139.99 |
| 145045 | 29060 | Plus II™ Hose, 1/4" Yellow, 60" Long, Compact Ball Valve | Ritchie | \$79.30 |
| 369074 | 29260 | Plus II™ Hose, 1/4" Blue, 60" Long, Compact Ball Valve | Ritchie | \$79.30 |
| 369075 | 29660 | Plus II™ Hose, 1/4" Red, 60" Long, Compact Ball Valve | Ritchie | \$79.30 |
| 367566 | 29860 | Plus II™ Hose, 1/4" Heavy Duty, 60" Long, Compact Ball Valve | Ritchie | \$101.49 |
| 160457 | 29985 | Plus II™ Hose 3-Pack (RYB), 1/4", 60" Long, Compact Ball Valve | Ritchie | \$225.92 |
| 110021 | 22985 | Plus II™ Hose 3-Pack (RYB), 1/4", 60", With SealRight Fitting | Ritchie | \$174.76 |

Vacuum Pump Systems



- Wide mouth oil reservoir port for easier, cleaner filling
- 2-stage, rotary vane oil-sealed pump
- Doubles as pump exhaust-threaded to attach garden hose for exhausting to remote location
- Intake filter screen keeps damaging particles from entering the pump
- Large oil sight glass for easy monitoring of oil level
- Large brass oil drain for easy access to fast oil changes
- Gas ballast valve keeps oil cleaner, longer during evacuation of wet systems
- Made in the USA
- Bullet comes with 24-month warranty

| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|-------------------------------------|---------------------|------------|
| 369477 | 69086 | Digital Handheld Vacuum Gauge Kit | Ritchie Engineering | \$509.86 |
| 369558 | 93560 | SuperEvac™ Vacuum Pump, 115V, 6 CFM | Ritchie Engineering | \$1,028.66 |
| 411412 | 93600 | Bullet™ Vacuum Pump, 115V, 7 CFM | Ritchie Engineering | \$822.38 |

Electrical Tools

Electrical Meters

Clamp-On



| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|--|--------------|----------|
| 422641 | SVG3 | Digital Vacuum Gauge with Alarm and Stopwatch | Fieldpiece | \$382.62 |
| 456372 | DL469 | True RMS Clamp-On Meter | UEI | \$168.82 |
| 118565 | ATL55 | Test Lead, Rubber Insulated, for G2 Clamp-On Meter, Pair | UEI | \$27.41 |
| 447881 | ATL5 | Test Lead for Testing Molex Plugs, Pair, for G2 Clamp-On Meter | UEI | \$18.92 |
| 447882 | ATLTX | Extension Wire for ATL5 | UEI | \$32.93 |
| 455752 | SC660 | True RMS, Inrush, 3 Phase Rotation, Dual Temp, JL2 Compatible | Fieldpiece | \$762.01 |

Multi



| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|--|--------------|----------|
| 422565 | SPDM1 | Pocket Digital Multi-Meter, With Leads | Fieldpiece | \$96.75 |
| 422620 | SMG5 | Digital Megohm Meter | Fieldpiece | \$278.08 |

Transformer Tester



| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|------------------------------|--------------|----------|
| 371857 | T389M | Iron Core Transformer Tester | Mitco | \$258.43 |

TOOLS

Air Measurement Tools

AAB



- ABM-100 connects to your smart phone and quickly and easily calculates air volume
- ABM-200 provides the same capabilities using Bluetooth wireless connection
- ABM-200 also measures temperature, humidity & pressure to provide dry/wet bulb, feels like, relative humidity and more

| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|--|--------------|----------|
| 444763 | ABM-100 | Airflow Balancing Meter for Smartphone | AAB | \$112.69 |
| 450746 | SPM-K1 | Dual Port Manometer with Probes and Brass Gas Adaptor | AAB | \$469.06 |
| 450079 | ABM-200 | Wireless Smartphone Anemometer, Plus Airflow, Temperatures | AAB | \$204.96 |
| 450080 | EXP-64 | Extension Pole for use with ABM-200, Extends to 64" | AAB | \$72.77 |
| 451938 | TS-100 | TempSmart Temperature and Humidity Data Logger | AAB | \$139.19 |

Thermometers & Meter Accessories

Thermometers & Thermistors



| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|--|--------------|----------|
| 418722 | ST4 | Dual Temp Thermometer, Reads T1, T2 or T1-T2 | Fieldpiece | \$212.96 |
| 429789 | SPK1 | Pocketknife Style Probe Thermometer | Fieldpiece | \$60.80 |
| 161106 | SRH77A | Thermometer with Hygrometer, 3 Zone, Digital | Cooper | \$818.56 |
| 118614 | PDT550 | Thermometer, Pocket, Digital | UEI | \$46.43 |
| 411728 | INF165 | Thermometer, Infrared, "Scout 1" | UEI | \$151.14 |
| 349966 | 1075 | 3-1/2" Thermistor Puncture Probe for SRH77A | Cooper | \$101.56 |
| 321138 | 4005 | Clamp Probe Thermistor for SRH77A | Cooper | \$251.33 |
| 368288 | 4011 | Strap-On Probe Thermistor for SRH77A | Cooper | \$115.67 |

Thermocouples



- Sensor is virtually isolated from ambient conditions, allowing the thermocouple to read the true pipe temperature
- Large surface area and increased clamping force help reach the correct temperature within 30 seconds
- Designed to let you measure the temperatures of pipes that are fixed, at any angle, to walls or other surfaces

| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|---|--------------|----------|
| 418723 | ATC1R | Pipe-Clamp Thermocouple, fits 1/8" - 3/4" diameters | Fieldpiece | \$148.37 |

Static Pressure Probes



- Magnetic flange & directional arrow to ensure proper positioning & optimal performance
- Works with all Fieldpiece manometers

| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|--|--------------|---------|
| 422552 | ASP2 | Static Pressure Probes, Pair, No Hoses | Fieldpiece | \$59.18 |

Psychrometers-Wireless



- Allows you to measure supply and return at the same time
- Real-time Target Evaporator Exit Temperature and Target Delta T
- Displays actual indoor unit performance, AND calculates how indoor unit should be performing
- Shows enthalpy change across the evaporator -- in real-time
- Dual Display
- Hands-free testing
- Bright backlight
- Ruled, 38" telescoping probes and threaded probe locks
- Magnetic hanger
- Job Link Wireless Transmitter allows psychrometer to send live indoor wet bulb readings to the SMAN 4-port Digital Manifolds or Job Link App while charging at the condenser, saving you time on the job site
- JobLink Wireless Transmitter & JL2 app allow you to view measurements on your smart phone from anywhere within 100' of the transmitter and store job data to share with your office or the homeowner

| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|---|--------------|----------|
| 422665 | SDP2 | Dual In-Duct Psychrometer, Can integrate with JL2 | Fieldpiece | \$634.66 |
| 446058 | JL2 | Job Link Wireless Transmitter for Smartphone | Fieldpiece | \$510.85 |

TOOLS

Air Measurement Tools

Thermometers & Meter Accessories

Psychrometers-Digital



- Quickly measure humidity, dry bulb, dew point and wet bulb
- Automatically calculates readings
- Display relative humidity and temperature simultaneously
- Response time of 60 seconds to changes in humidity

| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|-----------------------------------|--------------|----------|
| 369335 | 69008 | Digital Psychrometer / Hygrometer | Ritchie | \$254.29 |

Manometers



- Measure gas pressure, static pressure & pressure differential
- Fieldpiece and UEI include rubber boot for durability
- Testo has magnetic back for hands-free operation

| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|---|--------------|----------|
| 450746 | SPM-K1 | Dual Port Manometer with Probes and Brass Gas Adaptor | AAB | \$469.06 |
| 422630 | SDMN5 | Dual Port Manometer, Includes Hoses | Fieldpiece | \$339.38 |
| 418672 | SDMN6 | Dual Port Manometer and Pressure Switch Tester | Fieldpiece | \$634.66 |
| 370172 | 0560-0510 | Handheld Differential Manometer | Testo | \$347.72 |
| 383141 | EM201 | Manometer, Dual Input, Digital | UEI | \$373.65 |

Magnehelics



- Guaranteed within 2% of full scale
- Uses simple, frictionless Magnehelic® gage movement to quickly indicate low air or non-corrosive gas pressures--either positive, negative (vacuum) or differential
- Design resists shock, vibration and over-pressures

| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|--|--------------|----------|
| 58177 | 2002AV | Magnehelic Gauge, Air Velocity, 1000-5600 FPM Range, 0.2" W.C. | Dwyer | \$171.63 |
| 58197 | A-432 | Carrying Case, with tubing, stand-hang bracket and terminal tube with holder | Dwyer | \$127.64 |

Measurement Tools

Combustible and Exhaust Gas



| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|------------------------------------|--------------|----------|
| 371295 | N55-10M | Thermocouple Tester for Gas Safety | Mitco | \$169.18 |

Analog Gauge



- Sensitive diaphragm gauge calibrated in inches of water column and ounces per square inch
- Improved lamination strength of diaphragm (bellows) to brass plate withstands higher over-pressure
- Tube nipple for easy connection to system manifold
- 2 gauge ranges available
- The unique single bellows design replaces the double bellows for a stronger seal that resists over-pressure
- Made in the USA

| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|--------------------------------|--------------|----------|
| 111760 | 78060 | Gas Pressure Test Kit | Ritchie | \$120.02 |
| 111771 | 78077 | Gas Tester, 3/4" NPT, 0-15 lb. | Ritchie | \$46.45 |

TOOLS

Measurement Tools

Combustible and Exhaust Gas

Leak Detector



- Ultra-sensitive sensor detects less than 15 ppm methane and better than 12 ppm for propane
- Sensor also works well on a complete list of detectable gases including acetylene, butane, and isobutane
- Automatic calibration and zeroing
- Sensor replaceable after full service life
- SmartAlarm LED shows how big or small a leak is on a scale of 1 to 9
- Unit adjustable for normal, high or low sensitivity
- 24-month limited warranty (12-month warranty on sensor)
- Made in the USA

| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|--------------------------|--------------|----------|
| 369520 | 69373 | Combustible Gas Detector | Ritchie | \$662.95 |

Smoke Gun



| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|--|--------------|----------|
| 371856 | N27-16M | Combustion Smoke Analyzer for Flue Gas | Mitco | \$260.42 |
| 97439 | N29-26 | Smoke Test Paper for N27-16M, Pack of 50 | Mitco | \$40.72 |
| 390588 | SPT1 | Combustion Smoke Analyzer for Flue Gas | UEI | \$256.49 |

Combustion Analyzer



- Electro optical CO2 sensor technology
- No oxygen sensor replacement
- Measures: CO2, CO, Flue temperature
- Calculates: O2, efficiency, excess air, CO air free
- Magnetic boot
- Real time clock
- CO readings to 1 ppm
- Large 2 line back-lit display
- Infrared printer port
- 20 memory position
- 5 year limited warranty (includes sensors)

| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|-----------------------------------|--------------|------------|
| 450287 | C85 | EOS Long Life Combustion Analyzer | UEI | \$1,006.17 |
| 418689 | 17631PACK | Particle Filter for C85 | UEI | \$164.09 |

Fuel Oil

Flow Monitor Kit



- Tests pump pressure and cutoff of fuel oil pumps quickly and accurately without removing the pump from the oil burner
- Can be used on all pumps with operating pressures up to 300 psi
- Quick hook-up fittings make testing easy, clean and simple
- Checks operating pressure and cutoff under actual operating conditions
- Color coded hoses
- All brass body
- High impact case

| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|---|--------------|----------|
| 369897 | P115M | Oil Watcher / Oil Flow Monitor Kit, Incl. Gauge, Hose, Adaptors, Clamps | Mitco | \$146.94 |

Pressure Test Kit



- Determine pump efficiency, cut-off and suction, as well as analyze or troubleshoot burner efficiency
- Kit includes: 2" gauge, 30" 0-150 lb scale and 12" hose with fittings
- All gauges are 1/8" NPT
- Made in the USA

| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|----------------------------|--------------|---------|
| 111747 | 78020 | Fuel Oil Pressure Test Kit | Ritchie | \$89.59 |

TOOLS

Measurement Tools

Visual Inspection



- Rotating screen that provides fluid image control
- Optimized 2.7" LCD screen delivers crisp, clear image
- 9mm 640x480 Digital Image Sensor for superior image quality
- 4 surround LED Lights for Best in Class Brightness without shadow or glare
- Enhanced Cable: Aluminum head and improved flexibility deliver unmatched durability and pipe maneuverability
- Accessories: Hook, Magnet, and Mirror attachments help to inspect and solve

| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|--------------|--------------------------------|--------------|----------|
| 418794 | 2313-21 | M-SPECTOR Inspection Scope Kit | Milwaukee | \$503.98 |

Ductless Minisplit Installation



- Allows single-person installation of indoor ductless units, saving time & money on install crews
- Clips to the mounting bracket of most mini-split brands
- Doesn't damage walls

| HVAC No. | MFG Part No. | Description | Manufacturer | Price |
|----------|----------------|-----------------------------------|--------------|----------|
| 447457 | MIGHTY BRACKET | Ductless Indoor Unit Install Tool | Rectorseal | \$222.10 |

Batteries



| HVAC No. | MFG Part No. | Description | Price |
|----------|--------------|-----------------------|--------|
| 45219 | BAT-AAA | Alkaline Battery, AAA | \$1.60 |
| 45218 | BAT-AA | Alkaline Battery, AA | \$1.51 |
| 45217 | BAT-9V | Alkaline Battery, 9V | \$5.69 |
| 45220 | BAT-C | Alkaline Battery, C | \$4.24 |
| 45221 | BAT-D | Alkaline Battery, D | \$6.49 |

TOOLS