

# REFRIGERANT CHARGING & RECOVERY

## KWIK-VISE™

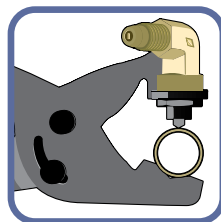
### Refrigerant Recovery Tool

- PT-109** Line piercing/refrigerant recovery tool pierces, seals and locks on to copper lines in one swift motion.
- Self-adjusting! No need to adjust the tool for different sizes of tubing. The tension system automatically locks pliers on copper tubing 1/4" to 1/2" (6 mm-12 mm) O.D.
- To use, simply position the PT-109 on the tubing to be pierced. Close the pliers quickly and firmly. The pliers will automatically adjust and lock into a tightly sealed, secure position.

#### Features

- Replaceable hardened, stainless steel pierce and brass valve assembly (S16002045).
- Capacity: 1/4" thru 1/2" O.D. refrigerant copper tubing.
- Durable: made with high-carbon, heat treated steel jaws.
- Works with all refrigerants CFC, HFC, HCFC and Zeotropic, Azeotropic.
- 90° elbow valve eliminates tangling and interference problems.

**S16002045** Replacement pierce and brass valve assembly.



PT-109



## KWIK CHARGE®

### Liquid Low Side Charger

#### Provides fast, safe charge - essential for today's blended refrigerants!

The Kwik Charge® charging unit accepts liquid refrigerant from the cylinder and discharges into low side of the system. Charging rate is up to eight times faster than vapor charging. In addition, liquid charging is required when using R-410A and other blended refrigerants. Attach the Kwik Charge device to the low side of the charging manifold. Charging hose is connected from Kwik Charge device outlet to low side of refrigeration system. Internal metering element reduces liquid flow to a level below capacity of compressor. This assures a safe, fast charge without endangering the compressor. A built-in ball check valve automatically opens when drawing a vacuum to assure rapid, unrestricted evacuation. Can be used with all fluorinated hydrocarbon refrigerant systems.

#### Features

- Up to 8 times faster than vapor charging.
- No need to heat refrigerant cylinder.
- Built-in check valve opens for drawing unrestricted vacuum.
- No pressure drop in cylinder.
- One charger services all units 1/2 ton or larger.

**535-C** Kwik Charge® charging unit 1/4" female SAE flare inlet, 1/4" male SAE flare outlet.

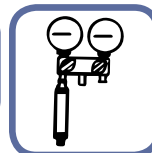
WORKS WITH  
**R-410A**



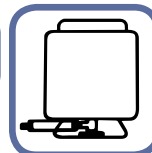
535-C

**CONNECTION TO MANIFOLDS**  
(connect all hoses as usual)

**2-Valve** Connect Kwik Charge® charger to low side fitting. Arrow downward.



Can be connected to refrigerant cylinder rather than manifold.



**4-Valve** Unscrew end fitting & reverse, then connect to refrigerant fitting as shown (flow arrow on body points upward).

