

## Handi-Heat<sup>®</sup> Acetylene-Air Kit – Soldering, Brazing, Sweating & Heating



**NE835A**

### ACETYLENE-AIR HANDI-HEET<sup>®</sup> OUTFIT

Handi-Heat<sup>®</sup> soldering outfits provide fast heat with acetylene and atmospheric air. Concentrated soft flame delivers 4700° F heat just where it is needed for maximum performance on all types of soldering, heating, thawing and other applications. No oxygen tank required. Tough NE180A torch handle is built to last – machined from solid brass. Unlike plastic torches, it is not sensitive to temperature changes. Full length fluted handle provides firm comfortable grip. Needle valve provides excellent flame adjustment. Easy to operate, just hold torch and set flame with one hand.

Handi-Heat soldering tips have Smith's famous Slip-in design. Seats perfectly by hand . . . no wrench needed! "O" ring provides tight gas seal and allows operator to rotate tip to any position. All tips and torch body are nickel plated. Sturdy single stage regulator provides steady and sensitive gas regulation for maximum torch performance.

Outfit No.	Torch Handle	Tips	Regulator	Fits Tanks	Accessories
NE835A	NE180A	NE180-1 NE180-2 NE180-3	30-15-520 CGA 520	"B" 40 cu. ft	RL121 12.5' (3.8m) Hose N113A Lighter

**NOTE:** Torch does not require check valves or flashback arrestors.

### Air/Acetylene Torch & Tips



**NE180A**  
Length 5-3/8"  
(130mm)  
Weight 8-1/4 oz.

**NE180A Torch Handle**  
**1 Year Warranty**  
Use with acetylene gas. Machined from solid brass. Hose connection 9/16"-18 LH thread, "B". Fits R12 or R14D hose connections.

Burns acetylene with atmospheric air. Ideal for sweating copper joints up to 6" (152mm) in diameter, soldering, leading, thawing, heating and straightening.

- No oxygen tank needed
- Clean, economical heat
- No wrench needed-tips are hand tightened
- One-handed flame adjustment
- 360° Tip turning radius
- Tough all brass body
- Smooth turning needle valve
- Rugged tips
- Nickel plated for added heat resistance
- Fuel pressure setting: 12-14 PSIG

### Air/Acetylene Tips



**NE180-4**  
Length 8" (203mm)  
Weight 3-1/2 oz.

**NE180-4 Extra Large Tip**  
Use for fast paint burning, heavy soldering and heating. Replacement Orifice No. L704-6.



**NE180-3**  
Length 7-5/8" (203mm)  
Weight 3-1/4 oz.

**NE180-3 Large Tip**  
Use for pipe thawing, light brazing and silver soldering. Replacement Orifice No. L703-6.



**NE180-2**  
Length 6-7/8" (175mm)  
Weight 2-1/2 oz.

**NE180-2 Medium Tip**  
For all types of soft soldering, body leading, etc. Replacement Orifice No. L702-6.



**NE180-1**  
Length 6-1/8" (156mm)  
Weight 1-7/8 oz.

**NE180-1 Small Tip**  
For fine instrument work, auto radiators, etc. Replacement Orifice No. L701-6



**NE180-0**  
Length 4-3/4" (121mm)  
Weight 1-3/4 oz.

**NE180-0 Fine Tip**  
For jewelry, small tube and electronics soldering. Replacement Orifice No. L711-6



**NE180-00**  
Length 4-3/4" (121mm)  
Weight 1-3/4 oz.

**NE180-00 Super Fine Tip**  
For delicate jewelry and electronic soldering. Replacement Orifice No. L710-6

Tip Number	Flame Opening		Flame Inner Cone Length		Consumption SCFH	BTU Output
	Inch	mm	Inch	mm		
NE180-4	3/8"	10	1-3/4"	45	22.8	32,900
NE180-3	1/4"	6	1-1/2"	38	9.0	13,000
NE180-2	3/16"	5	1-1/4"	32	5.2	7,500
NE180-1	9/64"	3.6	3/4"	19	2.8	4,000
NE180-0	3/32"	2.4	1/4"	6	1.5	2,200
NE180-00	1/16"	1.7	1/8"	3	.5	720

