

Acetylene-Air Outfits - Soldering, Brazing, Sweating & Heating

Outfits



NE835A

ACETYLENE-AIR HANDI-HEET® OUTFIT

Handi-Heat® soldering outfits provide fast heat with acetylene and atmospheric air. Concentrated soft flame delivers 1700° 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 12-1/2' (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-hand 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 point burning, heavy soldering and heating. Replacement Orifice No. L704-6.



NE180-3
Length 7 5/8" (194mm) -
Weight 3 1/4 oz.

NE180-3 LARGE TIP

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

Safety • Performance • Durability

Outfits



**239-193
AIR/ACETYLENE KIT**

See previous page for additional tip sizes.

SILVER SMITH™ Designed for jewelers, silver smiths and hobbyists. (Excellent choice for light brazing and soldering.) Air-fuel torches deliver the ultimate in quality and flame control. The all metal torch provides strength and long life, while precision jeweled orifice tips produce a soft, consistent flame. The Silver Smith™ torch system is designed to work with air and acetylene gas.

FEATURE BENEFITS

- UL Listed, 100% tested and made in USA
- Nickel plated brass handle for strength and long service
- Heavy duty industrial regulators for added safety and service
- Synthetic sapphire orifices provide consistent accurate flame control, and are easily replaced if obstructed.

Outfit No.	Torch Handle	Tip	Regulator	Fits Tanks	Accessories
239-193	NE180A	NE180-00	30-15-520 CGA 520	"B" 40 cu. ft.	RL121 12.5' (3.8m) Hose N113A Lighter

Jewelry Repair & Manufacture, Hobby & Crafts, Metal Sculpture, Glass Blowing, Plumbing, Electronics & Repair



23-1001D

23-1001D

Works with any fuel gas and oxygen. Includes 11-1101C torch, #3-7 curved tips, 8' (2.4m) hoses and instruction manual. Packaged in display box as shown ("B" hose connections fuel 9/16"-18-LH, Oxygen 9/16"-18-RH).

239-047B with **BRITISH** hose connections (Fuel 3/8"-19 BSPF-LH, Oxygen 3/8"-19 BSPF-RH). Tips included #3-7.

239-048A with **EUROPEAN** hose connections (Fuel 3/8"-19 BSPF-RH, Oxygen 1/4"-19 BSPF-RH). Tips included #3-7.

23-1013A with **AUSTRALIAN** hose connections (Fuel 5/8"-18-LH, Oxygen 5/8"-18-RH). Tips included #3-7.

**Outfit For Disposable Tanks
23-1014**

Includes 249-499 preset oxygen regulator, 249-500 preset propane regulator, cylinder holder, 11-1101C torch, #5 tip, 8 ft. (2.4m) hoses and instruction manual. Allows maximum portability and may be used in locations where larger pressurized cylinders are not allowed.

Kit shown in inset photo above may be used with disposable MAPP® or propane and oxygen cylinders (Cylinders not included). **NOTE:** Disposable oxygen and fuel tanks may be purchased at most hardware locations. May not be used with LP Multi-Flame (Rosebud) tip.

The Little Torch™



Hoses may be connected to any standard oxy-fuel regulators. (no adaptors required)

23-1003B Includes 11-1101C torch, #3-7 tips, 30-15-520 acetylene regulator (for "B" 40 cubic foot tank), 30-20-540 oxygen regulator, reverse flow check valves, 8' (2.4m) covered hoses and instruction manual.

23-1003P Kit with regulator fitting for propane or larger industrial acetylene cylinders over 40 cubic feet. Includes 11-1101C torch, #3-7 tips, 30-15-510 fuel regulator, 30-20-540 oxygen regulator, reverse flow check valves, 8' (2.4m) covered hoses and instruction manual.

23-1003 Kit with regulator fitted for acetylene (for "MC" tank) 10 cu. ft. cylinder. Includes 11-1101C torch, #3-7 tips, 30-15-200 fuel regulator, 30-20-540 oxygen regulator, check valves, 8' (2.4m) covered hoses and instruction manual.

