



Your Neon Source

BENDING EQUIPMENT

Ribbon Burners

Ribbon burners are utilized for creating sweeping curve effects and script-type lettering for neon signs. EGL Ribbon Burners feature a brass burner bar to eliminate warping and side ignition, and an improved economizer valve with O-ring seals to eliminate leakage.

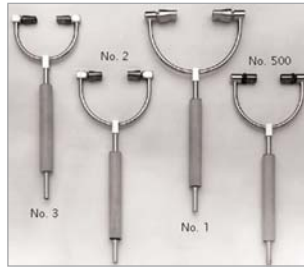


Custom burner assemblies are available for any specific glass room requirements. Contact Midwest for more information.

Hand Torches

Splicing Torch No. 1 with #81 oblong "fishtail" burners for splicing 10-25 mm glass.

Combination Slicing/Tipping Torch No. 2 with #228 oblong "fishtail" burners for splicing smaller diameter glass (up to 13mm), and for tipping off with reduced flame.



Tipping Torch No. 3 with #228 oblong "fishtail" brass burners for tipping off tubes up to 6mm diameter. May also be used for splicing tubes up to 10mm.

No. 500 Tipping Torch with round burners for tipping off tubes up to 6mm diameter. May also be used for splicing tubes up to 10mm. Replaceable stainless steel tips enable the torch body to be reused indefinitely.

Bombarders And Chokes

EGL Bombarder Transformers are available in 15 KVA, for all applications, 22 KVA, for large scale, full-time production shops.



The EGL model 4600 variable speed controlled choke is a DC reactance device using a dial Variac. When used in conjunction with the EGL milliamp gauge, the model 4600 will provide precise control of bombarding levels combined with ease of operation and reliability.

Digital Map Measure

Used for measuring required lengths of glass tubing by following the exact contours of a to-scale working drawing of the intended design; also helps determine the strength of the voltage transformer to be used.



Tube Tester with Leather Case

Slim-line, portable, high frequency tester for neon and fluorescent tubing. The hand-held tester features an impact-resistant ABS case with molded grip and measures 1.875" long x 1.5" wide x 0.75" deep, fitting easily into pockets and utility belts.

Lead Glass Stopcocks



EGL Stopcocks are available in a broad range of sizes—from 2mm to 10mm—providing a proper stopcock for every use.

Maxi•Vac™ MXV-50 Manifold & Complete Pumping System

The MAXI-VAC manifold virtually eliminates the leakage, breakage, contamination, and downtime common to older systems by eliminating the components that cause it. Its superior design and construction provide the fastest, most consistent pumping speeds, and the brightest, cleanest neon tubes attainable. Gone forever are the grease type stopcocks, numerous connections, and maze of fragile glass tubing which result in wasted repair time and, worse still, finished neon products of inconsistent quality. Short lengths of heavy wall 50mm diameter borosilicate tubing are welded in a compact configuration which has the fewest possible number of connections, then annealed to remove strain.





For quality components that offer consistent results, Voltarc offers the largest selection of pumping and bending equipment for the neon fabrication shop.

Ribbon Burners

Allows the tube bender to heat a long length of glass uniformly to obtain gradual bends and long sweeping curves.

Available with 16 and 24" sizes for either natural or artificial gas. Special features include 360-degree head rotation and fully adjustable flame length. An optional flange adapter permits the bench model burner to convert to a fire stand mounted.



Also Available:

Universal Stand for Ribbon Burners & Cross Fires
(See photo at right)

KVA Bombarder & Choke

Suitable for continuous use with neon units 7mm-12mm diameter using 30mA electrodes. Can also be used intermittently with neon units of 15mm-18mm with 60mA electrodes. Available in 15 or 22KVA.



Crossfire Mixers

The proper air/gas mixture determines the kind of flame produced. Designed to provide the correct mixture for five and seven point crossfires.

Hyde Glass Working Fires

To insure efficient operation, Hyde Glass Working Fires require an air and gas supply of sufficient size to furnish the volumes and pressures shown in the following tables. The pressures should prevail at the various burners.

Burner Size	Air Pressure (lbs/in ²)	Air Volume (ft ³ /hr)	Gas Pressure (inch water col.)	Gas Volume (ft ³ /hr)
Artificial (Manufactured) Gas Burners				
6"	2.0	917	6.0	190
16"	2.0	1115	6.0	225
24"	2.0	1200	6.0	250
Artificial (Manufactured) Gas Crossfires (approx. BTU 525)				
5 point	1.0	190	2.0	34
6 point	1.0	228	2.0	41
7 point	1.0	226	2.0	48
Artificial (Manufactured) Gas Hand Fires (approx. BTU 525)				
#3-A	0.33	38	4.0	9.6

Hand Torches

Easy to handle, Voltarc-Hyde small, lightweight hand torches are versatile and easy to maneuver. Durability and long life are achieved by their all-brass construction and silver-soldered, nickel-plated connections.

These highly efficient torches deliver exceptional performance with natural gas, butane, propane and all bottled gases.



Torch #	Description
500T	Tipping Torch
2TCH	Fish Tail Hand Torch, #81 Tips
1TCH	Fish Tail Hand Torch, #228 Tips
V18/51-54	Venturi Mixer with valve feeds, A torch feeds (2) 228N burners
V18/39-47	Venturi Mixer with valves feeds, A torch feeds (2) A531 burners
V18/42-49	Venturi Mixer with valves feeds, B torch feeds (2) 81N burners
228N	Fish Tail Burner #228 for artificial and natural gas
81N	Fish Tail Burner #81 for artificial and natural gas

Hand Torch Accessories

Accessory #	Description
V7T	Handfire Large Valve Needle, type 1/4"
V1M	Handfire Small Valve Needle, type 1/4"
HF MIX	Tubular Hand Torch Mixer
1TCH	Fish Tail Hand Torch, #228 tips

Kolor-Chek'r

A portable, low-cost checking device used to determine the color of un-pumped sign tubing. This lightweight model can be hand held or stationary. Special filter and lamp fluoresce all phosphor colors. Great for the shop, service truck or warehouse.



Butyl Phtalate "E-Z Read" Pressure Gauge

Designed to measure the pressure as low as one millimeter due to the rare gas used to fill illuminated sign tubes with a high readability. Simple to operate there are no mechanical parts or electronic circuits.





Kitco Electric Tube Cutter

Four heat settings allow precise temperature control for even heating of the tube for smooth and easy cuts, this cutters saves time and virtually eliminates hairline crack backs even when cutting on radius bends, near double backs, and on classic glass. Cutter includes 10, 12, 13, 15, and 20mm wire cutting loops. Extra wire loops are available in 8-25mm sizes. A second cutting handle can be added to switch glass sizes without changing the wire loop. *Available in 115 and 230 volt models.*



Nichrome Wire Loops & Nichrome Wire

The Nichrome wire loops for the Daco neon tube glass cutter are available in a variety of sizes and packaged five loops per envelope. *Available in 10mm to 25mm loops or in a 15' coil if you prefer to make your own.*

Brass Glass Blower's Double Swivel

This double swivel eliminates unnecessary blow hose kinks. It seals snugly into the rubber tapered stopper connector and 1/8" blow hose.

Kcs-3 Swivel Connector Set

Set contains three different sizes of two soft plastic and one tapered soft rubber connector adapters to accompany the 90-degree swivel. Extra 3/16" x 1 1/4" tapered soft rubber swivel stopper connectors are also available in sets of three.

KEH Brass Electrode Holders

Four diameter sizes provide firm support for the full range of electrode sizes—10mm through 19mm. Complete with slip ring and wooden handle, this electrode holder allows for freedom to use both tubulated and non-tubulated electrodes. *Available in 10, 12, 15 and 18mm diameters and 7" in length.*

Electro Technic Tube Tester

Used for detecting leaks in pumping system. Normal applications are usually less than one minute. *Tester output: 10,000-50,000 volts at frequencies of approximately 1/2 megahertz.*



Neon Footage Measurer

Includes ring for compact pocket use and large diameter for easy readout. One side is fitted with a special dial for exact measurement of straight lines and curves on technical plans, drawings, blueprints, etc. *Also available with an easy grip 1 1/2" fixed handle and leatherette case.*



Double Readout Plan Measure

Assures precision measurement forward or backward and follows curved lines. Features a geared metal mechanism, automatic reset gear, lightweight design, and convenient handle for easy maneuverability. Ideal for blueprints, map scaling and drawing. *For 1/16" scaled drawings, registers up to 36", 90 cm and 576' in one revolution; for 1/8" scale, up to 288'; for 1/4" scale, up to 144'; and for 1/2" scale, up to 72'. Blister-carded with a leatherette sheath and complete instructions.*



HyVac® Products, Inc.

Vacuum Pump Oil

High quality, high-boiling range, straight mineral oil of approximately 350 SUS at 100° F. Its low vapor pressure and other unique characteristics make it especially suitable for use in most high vacuum pumps including Welch, Precision and HyVac Pumps.



Flushing Oil

Use in cleaning out mechanical vacuum pumps of contaminants between oil changes.

Masonlite Tube Tester

Masonlite Tube Tester works on neon (cold cathode) and fluorescent (hot cathode) tubes. Small and compact tester is battery operated and very easy to operate. Features a telescoping aerial for extended reach.

