

PLASMA CUTTING SYSTEMS

COMPRESSED AIR FILTERS

MOTOR GUARD CORP., LA-MAN, THERMAL DYNAMICS

HINT: TO OBTAIN MAXIMUM CUTTING PERFORMANCE & CONSUMABLE PARTS LIFE, IT IS IMPORTANT TO USE AIR THAT IS DRY AND OIL FREE. OIL OR MOISTURE IN THE AIR SUPPLY WILL CAUSE PREMATURE WEAR OF THE CONSUMABLE PARTS AND DECREASE CUTTING PERFORMANCE. DRY, OIL FREE, AIR IS ASSURED BY PROPER USE OF AN APPROPRIATE COMPRESSED AIR FILTER.

FOR COMPRESSED AIR REGULATORS, HOSES & CONNECTORS: SEE PNEUMATIC ACCESSORIES SECTION



SUB-MICRONIC COMPRESSED AIR FILTERS FOR PLASMA CUTTING SYSTEMS

The essential accessory for plasma cutters.

These compressed air filters utilize a patented concept of filtration and will remove oil aerosols, condensed moisture, smoke, and sub-micronic particulates (as small as .01 microns, nominal) from compressed air lines . . . and as an illustration of efficiency, you can manually blow through the unit without difficulty, but the filter will not pass tobacco smoke.

On plasma cutting systems using shop compressed air as the source gas, oil aerosols and condensed moisture in the air will cause the arc to "sputter" reducing the cutting efficiency of the system, and accelerating corrosive wear of the electrode and tip.

The installation of a Motor Guard Compressed Air Filter on the plasma cutting system downstream of the air regulator will effectively remove the contamination from the compressed air . . . thus eliminating the "sputter" from the arc, restoring the plasma system to maximum cutting efficiency, and reducing the corrosive wear on the tip and electrode.



Part No. M-26 SUB-MICRONIC COMPRESSED AIR FILTER

\$89.00 Ea

This filter is equipped with a mounting bracket that will facilitate an installation on the top, side, or rear panel of the smaller, portable plasma cutting systems. The filter is equipped with 1/4" NPT ports to match the fittings on most plasma systems . . . and has a rated air flow of over 2,700 SCFH.

SPECIFICATIONS – PIPE SIZE: 1/4" NPT (F) – MAX. FLOW @ 80 PSI: 2,700 SCFH – MAXIMUM PRESSURE: 125 PSI – MAXIMUM TEMPERATURE: 175° – REMOVAL RATING (NOM.): .01 MICRON – SIZE: 5" x 7" – REPLACEMENT ELEMENT: Part No. M-723.



Part No. M-60 SUB-MICRONIC COMPRESSED AIR FILTER

\$89.00 Ea

This filter is recommended for use with the larger, stationary plasma cutting systems used for high volume, production cutting on industrial applications. Specifically designed to be mounted in the outlet of the rigid compressed air line adjacent to the plasma system, the filter is equipped with 1/2" NPT ports, and the rated flow is 6,000 SCFH.

SPECIFICATIONS – PIPE SIZE: 1/2" NPT (F) – MAX. FLOW @ 80 PSI: 6,000 SCFH – MAXIMUM PRESSURE: 125 PSI – MAXIMUM TEMPERATURE: 175° – REMOVAL RATING (NOM.): .01 MICRON – SIZE: 5" x 7" – REPLACEMENT ELEMENT: Part No. M-723.



Part No. M-723 SUB-MICRONIC FILTER ELEMENT REPLACEMENTS, PACKAGE OF 4

\$27.50 Pkg. of 4

Air flows between layers. Removes to .01 microns. Minimal pressure drop. Depth filter element. Dense hydrophilic fiber. Non-degrading. Contaminant free. Compresses in housing.



Part No. DD-1008-2

\$21.50 Pkg. of 2

DISPOSABLE SUB-MICRONIC COMPRESSED AIR FILTER (desiccant color changes), PACK OF 2

This miniature, completely disposable filter is designed for use with the lightweight, low amperage plasma cutting systems that do not have sufficient space to install one of the larger air filters. Designed for installation in the air hose downstream of the air regulator . . . the filter has a rated flow of 1,800 SCFH and the ports are 1/4" NPT. With the assumption that these small plasma cutting systems are used infrequently, the estimated life of the filter should be several weeks. Replace when desiccant changes color

SPECIFICATIONS – PIPE SIZE: 1/4" NPT – MAX. FLOW @ 80 PSI: 1,800 SCFH – MAXIMUM PRESSURE: 100 PSI – MAXIMUM TEMPERATURE: 175° – REMOVAL RATING (NOM.): 5 MICRON – SIZE: 3-1/2" x 1-1/2" – REPLACEMENT ELEMENT: None.



2 STAGE AIR LINE FILTER (5 Micron)

Part No. 5520A \$127.00 Ea.

Extractor/Dryer®

Extractor/Dryer provides the best service when it is located at the point-of-use in an application. This allows the air from the compressor to cool, thus condensing to liquid and enabling the Extractor/Dryer to do its job. The shortest distance from our filter to the point-of-use ensures cleaner air, therefore protecting valuable machinery and equipment.

SPECIFICATIONS – PIPE SIZE: 1/4" NPT – SCFM: 15 – MAXIMUM PRESSURE: 250 PSI – REMOVAL RATING: 5 micron Standard (lower micron rating available) – SIZE: 7-1/8" x 3" x 1-1/4" – APPROX WEIGHT: 2 lb.

SERVICE KIT (REPLACEMENT ELEMENT)

Part No. 015SK \$52.80 Ea.

We recommend servicing the Extractor/Dryer every 6 months.



Air Filter Kits for use on all plasma cutting systems. Improves consumable parts life and overall performance

Part No. 7-7507 \$159.30 Ea.

Single Stage Air Filter Kit, .85 Micron

(Part No. 7-7507 – Filter Body, Hose, .85 micron Filter Element).

For use with shop compressed air systems, this in-line filter will not allow moisture or water to pass through the element even if it becomes completely saturated. This hi-tech filter element actually blocks the absorption of water to increase performance and improve consumable parts life.

Replacement Filter Element

Part No. 9-7741 \$25.71 Ea.

