Kool Mist General Purpose Models with Stainless Tank

General purpose models will handle most machine shop work such as drilling, tapping, pantographing, cutoff saws, band saws, surface grinders, etc. See Large capacity models for heavy milling and profiling, single point threading and turning, Blanchard grinding, large tool and cutter grinding, and large cutoff saws. Air supply required.

Completely Portable. The controls for all of these systems are factory mounted to the tanktop instead of to the machine, so that the entire system can be relocated at will. Multi nozzle systems have a separate control for each coolant line. The controls are manifolded so that only one air hose is required. Each unit comes fully assembled ready for hook-up to your shop air supply.

No Scrambled Lines. Coolant and compressed air are brought to the nozzle separately through a coaxial line, halving the number of lines to the machine. This eliminates tangling of unnecessary lines and gives the operator more work space. Coolant line exteriors are either nylon braided for strength, or may be metal braided for protection from hot chips. All lines are four feet long, but can be made longer on special order.

Easy-to-Use Control. Output from each nozzle is regulated by a single knob on the control. Mist spray may be turned on or off instantly to coordinate with the cutting cycle, and the spray mix made lean or rich as needed.

New Flexline Spray Mist Cooling System

Model 100N
Model 100NF12
Model 352NF12
Model 102N
Model 402N
Model 404NF12

Nozzle Positioners. There are three options for aiming the spray mist exactly where you want it. The options are as follows:

Flexlines made with “LOC-LINE”. The Flexlines are available in standard 12” or 18” length or longer lengths are available on special order. The lines are attached to a heavy duty magnetic base for ease of use. The combination of “LOC-LINE” flexibility and the magnetic base provides and infinite variety of postions.

Brass Nozzles. 5/16” dia. in 6” length with a swivel base attached to a heavy duty magnetic base. There is a two-way top swivel providing an infinite variety of positions.

Permanent Positioner. Comes with a swivel base and a two-way top swivel. The permanent postioner can be attached to any convenient bolt or hole.

Multi-Nozzle Models. Standard units may have up to four coolant lines and nozzles. Multi-nozzle systems have a separate control for each line. Models with more than four outlets are available on special order.
K-75: Our Most Advanced Model

- Turret takes up to four coolant lines: one furnished and others as needed.
- All lines ball-checked. No flowback.
- See-through drawer shows coolant level.
- Can be moved from machine to machine.
- Made of hi-strength structural plastics.

Just one Model K-75 can handle most cooling jobs in your shop. Hangs on bracket (furnished) or stands anywhere. Volume and spray cone width are adjustable for each line.

Stainless Steel Tank Holder

Mounting Bracket

<table>
<thead>
<tr>
<th>ITEM</th>
<th>MODEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounts 100</td>
<td>MB-1</td>
</tr>
<tr>
<td>Mounts 350</td>
<td>MB-3</td>
</tr>
</tbody>
</table>

Mounts to a wall or a flat surface.

MIST COOLANT SYSTEMS WITH STAINLESS TANK

<table>
<thead>
<tr>
<th>Type of Service</th>
<th>Coolant Line Type &amp; Length</th>
<th>Stainless Steel Tank Capacity</th>
<th>Nozzle Length*</th>
<th>1 Outlet Model No</th>
<th>2 Outlets Model No</th>
<th>3 Outlets Model No</th>
<th>4 Outlets Model No</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Purpose 5/16&quot; Nozzle</td>
<td>Coolant Line Type &amp; Length</td>
<td>1 gal</td>
<td>6&quot; Brass</td>
<td>100N</td>
<td>102N</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12&quot; Flexline</td>
<td>100NF12</td>
<td>102NF12</td>
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<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>18&quot; Flexline</td>
<td>100NF18</td>
<td>102NF18</td>
<td>---</td>
<td>---</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 gal</td>
<td>6&quot; Brass</td>
<td>350N</td>
<td>352N</td>
<td>353N</td>
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<td>12&quot; Flexline</td>
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<td>354NF12</td>
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<tr>
<td></td>
<td></td>
<td>18&quot; Flexline</td>
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<td>352NF18</td>
<td>353NF18</td>
<td>354NF18</td>
<td></td>
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<tr>
<td>Metal braided 4&quot;</td>
<td></td>
<td>1 gal</td>
<td>6&quot; Brass</td>
<td>100F</td>
<td>102F</td>
<td>---</td>
<td>---</td>
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<tr>
<td></td>
<td></td>
<td>12&quot; Flexline</td>
<td>100FF12</td>
<td>102FF12</td>
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<tr>
<td></td>
<td></td>
<td>18&quot; Flexline</td>
<td>100FF18</td>
<td>102FF18</td>
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<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 gal</td>
<td>6&quot; Brass</td>
<td>350F</td>
<td>352F</td>
<td>353F</td>
<td>354F</td>
</tr>
<tr>
<td></td>
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<td>12&quot; Flexline</td>
<td>350FF12</td>
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<td>353FF12</td>
<td>354FF12</td>
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<tr>
<td></td>
<td></td>
<td>18&quot; Flexline</td>
<td>350FF18</td>
<td>352FF18</td>
<td>353FF18</td>
<td>354FF18</td>
<td></td>
</tr>
<tr>
<td>Large Capacity 3/8&quot; Nozzle</td>
<td>Nylon braided 4&quot;</td>
<td>3 gal</td>
<td>6&quot; Brass</td>
<td>400N</td>
<td>402N</td>
<td>403N</td>
<td>404N</td>
</tr>
<tr>
<td></td>
<td>Metal braided 4&quot;</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Nylon braided 4&quot;</td>
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</tr>
<tr>
<td></td>
<td>Metal braided 4&quot;</td>
<td></td>
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</tr>
</tbody>
</table>

*Straight nozzle is standard. 45° and 90° nozzles are available on brass nozzles.
General Purpose Models

These models are to be used with your own Tank or Sump. Our General Purpose models are best used in production operations that require minimal set up changes. This unit is similar to our Lite Duty, but equipped with longer lines and nozzles for heavier use. The general purpose models generate a wider spray traveling a further distance than the Lite Duty models. Air supply required.

Simples of the Systems:
The controls of these units are mounted permanently to the machine, close to the operator and the cut.

No Coolant Tank Furnished:
Coolant mix may be placed in the machine sump, or in any clean container that will not contaminate the coolant. If the sump is used the conventional flood coolant pump must be made inoperative.

Coaxial Coolant Line:
Coolant and compressed air are not mixed until they reach the nozzle.
To overcome the need for dual lines, Kool Mist has developed a coaxial line, or a hose within a hose. Coolant line exteriors may be nylon braided for normal duty, or metal braided from protection from hot chips and abrasion.

Easy to Use Control:
Output from each nozzle is regulated by a single knob on the control. Mist Spray may be turned on or off instantly to co-ordinate with the cutting cycle, and the spray mix made lean or rich as needed. Nozzle position can be a permanent mount or the flexible magnetic base. Straight nozzle is standard. 45 and 90 deg. nozzles are available.

<table>
<thead>
<tr>
<th>Type of Service</th>
<th>Nozzle Length</th>
<th>Coolant Line Type &amp; Length</th>
<th>Control Mounting</th>
<th>Nozzle Positioner</th>
<th>Model Number</th>
<th>One Outlet</th>
<th>Two Outlets</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light Duty</td>
<td>4&quot; Brass</td>
<td>Nylon Braided 2'</td>
<td>Fixed</td>
<td>See Pg. 5</td>
<td>80S</td>
<td>N/A</td>
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<tr>
<td>Light Duty</td>
<td>4&quot; Brass</td>
<td>Nylon Braided 2'</td>
<td>Fixed</td>
<td>Magnet</td>
<td>80SM</td>
<td>N/A</td>
<td></td>
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<tr>
<td>Light Duty</td>
<td>12&quot; Flexline</td>
<td>Nylon Braided 4</td>
<td>Fixed</td>
<td>Magnet</td>
<td>80F12</td>
<td>N/A</td>
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<tr>
<td>Light Duty</td>
<td>18&quot; Flexline</td>
<td>Nylon Braided 4</td>
<td>Fixed</td>
<td>Magnet</td>
<td>80F18</td>
<td>N/A</td>
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<tr>
<td>Light Duty</td>
<td>12&quot; Flexline</td>
<td>N/A</td>
<td>PortaMist</td>
<td>Magnet</td>
<td>60M12</td>
<td>N/A</td>
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<tr>
<td>Light Duty</td>
<td>18&quot; Flexline</td>
<td>N/A</td>
<td>PortaMist</td>
<td>Magnet</td>
<td>60M18</td>
<td>N/A</td>
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<tr>
<td>General Purpose</td>
<td>6&quot; Brass</td>
<td>Nylon Braided 3</td>
<td>Fixed</td>
<td>See Pg. 5</td>
<td>101N</td>
<td>112N</td>
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<tr>
<td>General Purpose</td>
<td>6&quot; Brass</td>
<td>Nylon Braided 3</td>
<td>Fixed</td>
<td>See Pg. 5</td>
<td>101F</td>
<td>112F</td>
<td></td>
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<tr>
<td>General Purpose</td>
<td>12&quot; Flexline</td>
<td>Nylon Braided 4</td>
<td>Fixed</td>
<td>Magnet</td>
<td>101NF12</td>
<td>112NF12</td>
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<tr>
<td>General Purpose</td>
<td>18&quot; Flexline</td>
<td>Nylon Braided 4</td>
<td>Fixed</td>
<td>Magnet</td>
<td>101FF18</td>
<td>112NF18</td>
<td></td>
</tr>
</tbody>
</table>

*Straight nozzle is standard. 45° and 90° nozzles are available.

Automatic Mist Coolant Systems

Automatic Cooling System

Saves you money because the coolant is sprayed only when the machine is actually in operation.

The efficiently built unit is ON for constant flow, but it is designed to start and stop simultaneously with operation. Starts and stops automatically. A coolant saver!

All automatic models can be used with customer’s tank. Simply drop 4’ long siphoning line into any tank.

Kool Mist automatic models can be adapted to automatic operation on practically all machine tools.

Model 100AP For light to medium duty machine operation. No tank. Coolant line = 4' length, 13/32: O.D.
Type of Line = Nylon only
Probe = 6" in choice of straight, 45 deg. and 90 deg.

Air supply required.
PORTaMIST Features

Single Air/Coolant Control Valve
Adjustable Spray Nozzle
Heavy Duty Magnetic Base
12" or 18" Flexible LOC-LINE Nozzle Positioner
4 ft. Coolant Hose with Anti Syphon Check Valve
4 ft. Air Hose with Male Pipe Thread Fitting
1 yr. Warranty and Available Parts

Faster set-ups and improved production.

Nozzle Positioners

These positioners aim the mist spray exactly where you want it. A swivel base and a two-way top swivel provide an infinite variety of positions.

The permanent positioner can usually be attached to any convenient bolt or hole. The magnetic type is simply placed on any iron or steel surface.

<table>
<thead>
<tr>
<th>Type</th>
<th>Light Duty</th>
<th>General Purpose</th>
<th>Large Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model No.</td>
<td>Model No.</td>
<td>Model No.</td>
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<tr>
<td>Permanent</td>
<td>300</td>
<td>305</td>
<td>305</td>
</tr>
<tr>
<td>Magnetic</td>
<td>200</td>
<td>205</td>
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</tr>
</tbody>
</table>

Quick On-Off Control
Air Switches

Excellent for Every Machining Operation

Drilling
Tapping
Turning & Facing
Thread Chasing
Surface Grinding
Tool Grinding
Blanchard Grinding
Reaming
Milling
End Milling
Profiling
Die Sinking
Pantographing
Abrasive Cutoff
Power Hacksawing
Bandsawing

Item | No.  
--- | ----
Air Switch | 26 
4’ air hose w/fittings | 264
The improved Formula "77" is highly recommended for mistcooling any metal or alloy where tougher machining conditions require greater lubricity. It is particularly useful where tool pressure is exceptionally great or where the material is very abrasive. Formula "77" provides the extra lubrication needed to protect the cutting edge of the tool. Formula "77" has been re-formulated to provide the same safety for use as Formula "78" where incorporating additional lubricity ingredients for more demanding machining applications. In addition, Formula "77" provides excellent service in most general purpose flood cooling applications. One coolant-Formula "77" will fill most of your general mist and flood coolant needs. Formula "77" eliminates double coolant inventory, cuts storage space requirements and reduces your costs.

Kool Mist Universal Flood or Mist Coolants

The Kool Mist unique formula of coolant is safe for people, working materials and the tools used to shape them. The cost to use Kool Mist is about $.03 per operating hour. Because Kool Mist comes in concentrated form, it may be diluted with water in solutions up to 32:1. One gallon therefore makes 33 gallons of mix, or enough for 33 eight hour shifts at typical usage.

Both Kool Mist coolant formulas are biodegradable, greatly reducing storage and disposal concerns. They both meet OSHA, NASA, AEC and EPA standards. Spent coolant requires no special treatment and will have no adverse environmental effect.

Formula "77" for Tougher Service
Improved Coolant for Mist and Flood Cooling

The improved Formula "77" is highly recommended for mistcooling any metal or alloy where tougher machining conditions require greater lubricity. It is particularly useful where tool pressure is exceptionally great or where the material is very abrasive. Formula "77" provides the extra lubrication needed to protect the cutting edge of the tool. Formula "77" has been re-formulated to provide the same safety for use as Formula "78" where incorporating additional lubricity ingredients for more demanding machining applications. In addition, Formula "77" provides excellent service in most general purpose flood cooling applications. One coolant-Formula "77" will fill most of your general mist and flood coolant needs. Formula "77" eliminates double coolant inventory, cuts storage space requirements and reduces your costs.

Part Number: Formula 77-1 1 gallon (in plastic bottles) ......................
Part Number: Formula 77-4 Case (four 1 gallon Plastic bottles per case) ...........
Part Number: Formula 77-5 5 gallon pail ......................................
Part Number: Formula 77-55 55 gallon drum ...............................  SEE MORE

Formula "77" - like Formula "78" - will not cause dermatitis, acidity, or buildup, and creates no rust or corrosion when diluted with clean water. Workpieces and machine parts remain clean and unstained.

Formula "78" for Light Duty
Improved Coolant for Mist Systems

New formula improved after years of research, Formula "78" is a chemical base mist coolant that dissolves in water to a clear solution. It is the most universal mist coolant available. It can be used on any metal or alloy, and displays high efficiency in the cutting of exotic metals and alloys such as Monel, Inconel, Titanium, etc., as well as all non-ferrous metals. Formula "78" meets all OSHA standards. It is free of halogens and sulfides. It is safe for operators whether in liquid or mist form. Our proprietary formula completely prevents dermatitis and rancidity, and the formulation contains no irritants.

All components for Formula "78" are dissipated into the atmosphere by cutter heat except on; a chemically compounded lubricant that clings to the tool to reduce friction, the prime cause of heat.

Part Number: 78-1 1 gallon (in plastic bottles)
Part Number: 78-4 Case (four 1 gallon plastic bottles per case)
Part Number: 78-5 5 gallon pail
Part Number: 78-55 55 gallon drum

Concentrated. One gallon makes 33 gallons.

SAFE for the environment, your people, your materials and your machines.
Our spray mist coolant will not cause:

Dermatitis • Rust • Stains • Plugged lines and nozzles

Formulas “77” and “78” will assure superior results and maximum safety conditions from your spray mist system regardless of make.

All metal cutting applications generate heat due to metal deformation and chip friction at the tool chip interface. Coolants allow for this heat to be minimized or removed from the operation. By removing the heat generated in the operation, tool life increases and part finish is improved. Both coolants can help boost your output, improve your micro-finishes, and extend your tool life.

Outstanding Efficiency
No ordinary mist coolant matches Kool Mist for effectiveness. In a given time, Kool Mist can absorb 1000 times as much as an equal volume of flood coolant. With destructive heat removed as fast as it generates, production is often doubled and tool life tripled. Heavier cuts, coarser feeds, faster speeds and better micro-finishes become possible even on tough new alloys and exotic metals.

Safe for People, Machines and Parts
Kool Mist contains no halogens or sulfides and is totally free of dangerous or otherwise troublesome chemicals. It is harmless to operators and ends problems of mist fog fumes. Kool Mist will not cause corrosion, buildup, rancidity or objectionable odors. Neither will it create rust or stains or machined parts even when diluted 32:1 with water. As a result, it sharply reduces parts spoilage, eliminates employee health claims and precludes problems with health and environmental agencies such as OSHA.

Improves Machinability
Kool Mist makes common materials more machinable because its outstanding cooling action keeps tools sharp and lubricated. It provides excellent results on ferrous metals, brass, bronze, aluminum and many plastics. Kool Mist is often the only answer to cutting special alloys and exotic metals.

Drills hold their diameters, and cutting edges longer with mist, and chip move freely up and out of the flutes. Unlike flood coolants, the clear mist holds up and mills visible throughout the pass while giving ample cooling. Mist-cooled cutter grinder wheel hold their form longer and do not burn or crystallize narrow lands on costly cutters.
Mist angles into tapped hole keeps tap cool, lowers torque, prevents chip welding, and greatly extends tap life. Mist-cooled surface grinder wheels don’t load up quickly, need fewer dressings, and give better micro-finishes.

Works with many Mist Systems
Kool Mist may be used in just about any mist spray coolant system. It will not attack or react with hoses, tanks, or valves. Solids do not precipitate from the solution, so there is no possibility of accumulated sludge or clogging of small passages and nozzles.

Biodegradeable
Both Kool Mist coolant formulas are biodegradable. Greatly reducing storage and disposal concerns and procedures. Coolant may be disposed of without special treatment and will no adverse environmental effect.

A Little Does a Lot
Kool Mist comes in concentrated form, and may be diluted with water solutions up to 33 gallons of mix, or enough for 33 shifts of eight hours each at average rate of use. Therefore, making coolant costs under 3 cents an hour.
Kool Mist Starter Kits

Kool Kit Starter Special Model 500 Includes:
- One Model 100N Mist Coolant System with one gallon stainless steel tank
- One Adjustable Magnetic Nozzle Positioner
- One Gallon Formula 78 Concentrate Coolant (Light duty spray mist coolant)

Light duty Kool Kit Model 580 Includes:
- One Model 80S Mist Coolant System
- One Magnetic Mounted Nozzle Positioner
- One Gallon Formula 78 Concentrate Coolant (Light duty spray mist coolant)

PORTaMIST Kit Model 560 Includes:
- One PORTaMIST Model 60M unit including air and coolant hoses, heavy duty magnetic base, simple single knob control, and 12" flexible LOC-LINE® positioner
- One gallon Kool Mist Formula 78 concentrated coolant
- One four-ounce sample of Formula 77 concentrated coolant

PORTaMIST Kit Model 560-18 Includes:
- One PORTaMIST Model 60M-18 unit including air and coolant hoses, heavy duty magnetic base, simple single knob control, and 18" flexible LOC-LINE® positioner
- One gallon Kool Mist Formula 78 concentrated coolant
- One four-ounce sample of Formula 77 concentrated coolant

Available through your industrial distributors:
Regional Factory Stock In:
- Cincinnati, OH
- Fort Worth, TX
- San Francisco, CA
- Vancouver, WA
- Torino, Italy

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