

**Mistic  
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MIST  
COOLANT  
SYSTEMS

# Ekstrom Carlson

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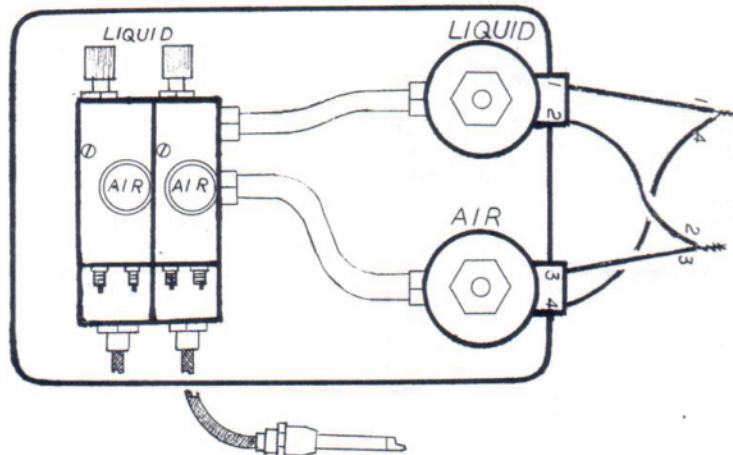
## INSTALLATION INSTRUCTIONS FOR SOLENOID OPERATED UNITS

1. Mount coolant tank to wall, machine, or appropriate place near mist unit. Standard liquid tube as supplied with unit is 5 ft long. Mount tank higher or level with nozzle(s).
2. Install the unit (solenoid plate with valve assembly) conveniently near the work station so operator can easily adjust needle valves for desired spray as needed.
3. Affix nozzle(s) appropriately so the mist coming out of them adequately reaches and covers the cutter/workpiece to provide sufficient cooling and lubrication.
4. Connect 1/4" dia. poly tube to coolant tank filter fitting and to the solenoid marked "LIQUID". Fill tank.
5. Connect shop air line into solenoid marked "AIR". 130 lbs Max PSI for 120VAC. Other voltages vary. Check nameplate.
6. Take one wire from the "LIQUID" line solenoid AND one wire from the "AIR" solenoid and connect them to one leg of your power source lead. Take the remaining wire from THE "LIQUID" solenoid AND the other remaining wire from the "AIR" solenoid and connect them to the remaining leg of your power source lead (See attached sketch).  
Double check voltage on solenoid nameplate with your power source lead so that they match.  
Electric signal must be constant in order to keep solenoids open to allow spraymist action. When electric signal is discontinued, the spray-mist action will stop.
7. Fill the coolant tank with coolant.
8. Open the "AIR" and the "LIQUID" needle valves all the way counter clockwise.

### NOW READY FOR TEST/OPERATION

9. When electric signal is given, you will immediately hear both solenoids click open, and hear air blowing through the nozzle. The syphon action has begun and within a few seconds you will see mist being created at the nozzle tip.
10. First adjust the "LIQUID" needle valve to desired amount of coolant to be dispensed. Then adjust the "AIR" needle valve to desired force. This test period allows the liquid line to be filled with coolant for instant ON/OFF operation.
11. Discontinue electric signal when desired. Solenoids will close, and both "AIR" and "LIQUID" will cease. You are now ready for automatic operation.

**NOTE:** If leaking or dripping occurs from one nozzle on multiple nozzle units, lower the unit (plate, valves, hoses) so that it is level with or lower than the other nozzles.



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# Aetna Manufacturing Company

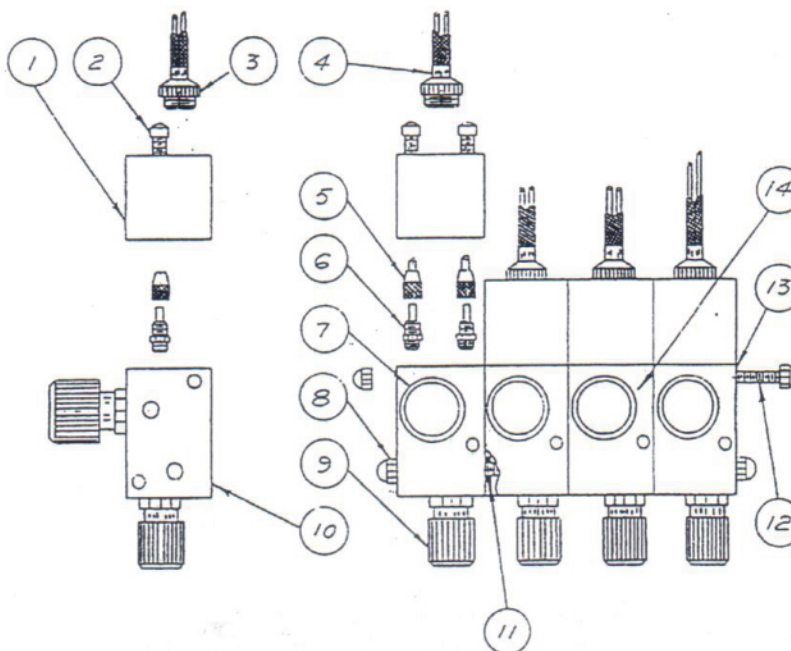
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## Central System and Hi-Flow Parts Breakdown



ITEM	CENTRAL SYSTEM # approx 1/16" 260-3383-	DESCRIPTION O. D. OF POLY TUBING IN THEAIR/COOLANT LINES Poly tubing - red or clear - sold per foot	HI-FLOW # approx 1/8" 260-3613-
1	410-3145	Attaching Block	410-3145
2	210-3464	8-32 x 1" Fillister head Screw	210-3464
3	410-3288	ACT Bushing	NOT USED
4	420-3252- 420-4311- 420-3222-	ACT LEAD - Braided Metal Line - specify length Loc-Line FLEXI-LINE, Specify 12" or 18" FMT LEAD - Flexible metal tubing - specify 12" or 24"	420-3609- NOT AVAIL 420-3221-
5	410-3191	Jet Nut	410-3359
6	410-3192	Jet	410-3358
7 and 9	420-3355	Air / Liquid Control Assembly	420-3355
8	210-3135	8-32 Acorn Nut	210-3135
10	410-3106	Valve Body - FRONT	410-3106
11	230-3310	5/16" OD O-Ring	230-3310
12	210-3024	8-32 Threaded Rod	210-3024
13	410-3097	Valve Body - END	410-3097
14	410-3098	Valve Body - CENTER	410-3098
	3/16" dia 420-3089 420-3392 420-3393 420-3394 410-3033	NOZZLES - NOT SHOWN 3" straight nozzle 5" straight nozzle 5" 45° nozzle 5" 90° nozzle Nozzle Nut	5/16" dia Obsolete 420-3606 420-3644 420-3645 410-3197
	Valve assemblies consist of: valve body, air control assy, liquid control assy, jets, and attaching block.		
	420-3137	Valve Assembly - FRONT	420-3140
	420-3138	Valve Assembly - CENTER	420-3141
	420-3139	Valve Assembly - END	420-3142
	420-3401	Valve Assembly - SINGLE	420-3467
	420-3402	2 outlet (Front & End)	420-3468
	420-3403	3 outlet (Front, center, & end)	420-3469
	420-3404	4 outlet (Front, 2 center & end)	420-3470
	420-3309	DALC On/Off Lever Valve	420-3309