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FLUID COOLER SIZING SHEET

Circuit to be cooled by the Fluid Cooler	<input type="checkbox"/>	Open
	<input type="checkbox"/>	Closed
	<input type="checkbox"/>	Hydraulics
	<input type="checkbox"/>	Molds (in winter)
	<input type="checkbox"/>	Condenser of water cooled chiller(s)
	<input type="checkbox"/>	Cooling water for temperature control units
	<input type="checkbox"/>	Tanks (volume, underground or not, distances etc)
	<input type="checkbox"/>	Other
System with glycol/anti-freeze (FC) or without (FCE)	<input type="checkbox"/>	With Glycol
	<input type="checkbox"/>	Without Glycol
System Self-Draining or non Self-Draining	<input type="checkbox"/>	Self-Draining
	<input type="checkbox"/>	Non Self-Draining
Max. ambient temperature during hot season:		° F
Min. ambient temperature during cold season:		° F
City and State (or Longitude and Latitude) of plant:		
Required water temperature:		° F
Max. allowed leaving water temperature:		° F
Working conditions: hours/day, days/week:		
Water consumption of cooling tower known?		per year
Cost of water and sewer: \$		(\$ per 1,000 gal) or (\$ per cu.ft.)?
Cost of electricity: \$		kW hr
Free cooler installation	<input type="checkbox"/>	North side (recommended)
	<input type="checkbox"/>	Roof
	<input type="checkbox"/>	Other
For FCE version: vertical distance from pump discharge with non return valve	<input type="checkbox"/>	Less than 6 ft.
	<input type="checkbox"/>	More than 6 ft.
Model and band of the injection molding machine:	_____	
Year of construction:	_____	
Clamping force (tons):	_____	
Hydraulic motor power :		HP
Type of injection:	<input type="checkbox"/>	Long cycle (less than 2 cycles per minute)
	<input type="checkbox"/>	Technical (between 2 & 6 cycles/min)
	<input type="checkbox"/>	Fast cycle (more than 7 cycles/min)
Cycle time or cycles per hour:		
Are heat exchangers of hydraulic motors well sized?		
Note: If the Fluid Cooler is used for Energy Savings in an existing cooling system it is necessary to know all data (chiller model, characteristics of the pumps, open or closed circuit, drawing with pipe lay-out, pipes dimensions). This is very important in order to select the right options		