

# **Custom Application Questionnaire**

**Phone** 

Email:	Company/Job Title	
coatings, adhesives, fer and levels of temperature	lucts make it easy and cost effective to cool various mentation systems, electric motors. In addition to the control and duration. If you can't find the right proast, affordable solutions for any application.	nis product, we offer various sizes
problem. Fill out all the i	o complete this short custom application questionnal information that you have, if you have questions or a Slope Chiller representative will work with you. Plea	are unsure on a question leave it
Substance to be coo	led	
What are you trying to coo	l down? (ex: oil, engine block, spirits, etc)	
Temperature, Reduce and		
Heat=4.22 kJ/kg°K)*	properties? (ex: density=1000kg/m^3, Specific	
	emperatures where the substance or contents will be ceed 50°C and cannot go below 5°C)	
What happens if it cools to	o fast?	
What happens if it cools to	o slow?	
	application fails to meet the desired ange? (ex: product goes bad)	
What is the associated los application when it doesn't	s (labor, cost, time, frustration) associated with your work?	
	fluid source (determines tube length)? (ex: 10 feet)	
*If unknown North Slope Chillers used for all calculations which ma	will search its database to find comparable properties, if no comparabay result in error.	le is found then the properties of water will be
<b>Cooling needs</b>		
-	wing system (Hot fluid enters reservoir and leaves cool a	at constant flow rate)
	luid entering container? (ex: 80°F - 90°F)	
Desired temperature of	fluid exiting container? (ex: 40°F -50°F)	
Flow rate of fluid? (ex:	1 GPM)	
If fluid is recirculated, h recirculation? (ex: 1000)	ow much energy is being absorbed by the fluid during  O Watts)	

90°F)

Reduce temperature of non-flowing system

What is the beginning temperature of the substance to be cooled? (ex: 80°F -

Name:



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What is the desired final temperature of the substance or contents? (ex: 40°F - 50°F)	
What is the desired time frame for the initial cooling? (ex: 5 - 8 hours)	
Maintain temperature	
How long do you need to maintain temperature? (ex: 12 hours)	

## **Ambient Conditions**

Is this application indoors or Outdoors? (ex: Outdoors)	
Expected wind velocity? (ex: 0 - 10 MPH)	
Expected ambient temperature? (ex: 70°F – 90°F)	
Are there other environmental conditions that may be relevant? (ex: dusty and in direct sunlight)	

#### **Container**

Type of container? (ex: 55 Gallon steel drum, tank, none, etc)	
What is the container made of? (ex: Steel, aluminum, PVC)	
How thick is the wall of the container? (ex: 1/16")	
What is the volume of the container?	

## Chiller

Providing own Chiller	
What is the cooling power? (ex:12,000 BTU/hr)	
What pressure and flow rate does the chiller output? (ex: 4 GPM @ 50 PSI)	
Inlet/Outlet specs (ex: ½" NPT female)	
North Slope Chillers to supply chiller	
What power is available? (ex: 120V)	
Are there any space restrictions?	
Distance from power source (required cord length)? (ex: 10 feet)	

# **Delivery**

How many units do you need now and in the future (ex: 1 immediately, 10 in a couple months)	
What is the required delivery date? (ex: 3 weeks)	
How are you currently solving this problem? (ex: Bucket of ice water)	

## **Other Notes**



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