





# INDUSTRIAL APPLICATION INQUIRY FORM

**Equipment Selection Request:**

If equipment capacity, return air conditions, and/or desired set-points are known, fill out this section and return to Quest:

Dehumidifier classification:			
Return air (incoming air to unit) conditions (Temp/RH):			
Moisture removal capacity [ppd or lb/hr]:			
Desired supply air (leaving air from unit) absolute humidity (gr/lb):			
Electrical options (V/ph/hz):			
Single or multiple units desired:			
Regeneration air conditions (if desiccant):			
Installation questions:			
Install by contractor or owner?			
Ducted or unducted?			
Desired control options? (e.g onboard, wall hung dehumidistat, Building Management System)			
Additional information (e.g. specific unit desired):			

**Facility/Room Description:**

Provide a description of the room(s) with the humidity issue:

Area/height to be controlled (W x L x H):				
Outside design conditions (°F / RH):				
Targeted space conditions (°F / RH):				
Current space conditions (°F / RH):				
Wall's construction material*:				
Floor construction material*:				
Are any of the walls exterior walls?	Yes:		No:	
No. of exterior walls:				
Additional information:				

\* e.g. (Brick 4", Concrete, Plaster on Metal Lath, Hardboard, Plywood, etc.)



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**Occupants:**

Number of people in this area (peak time):	
Description of area/activity	
Daily occupancy hours:	
Activity/Activity level*:	
Additional information:	

\* e.g. (spectator, sitting at desk, light work, heavy lifting, athlete)

**Process:**

Describe moisture generating process*:	
Estimate of peak hourly latent load [lb/hr]*:	
<b>If hourly latent load unknown, please provide the following info:</b>	
Initial product weight:	
Final product weight:	
Time between weighing:	
Describe combustion engine equipment used in space (e.g. fork trucks):	
Describe open sources of combustion in space (unvented)**, include gas consumption rate:	
Additional information:	

\*e.g. (manufacturing product, drying product, cooking, steam)

\*\*e.g. (Bunsen burner, unvented gas range, unvented heater)



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## Facility Operation/HVAC System Description:

Describe the HVAC system for the room in question (type of system, temp/RH of air delivered to space, other zones it serves):				
Does the room include exhaust from fume hood, range hood, or other devices?	Yes:		No:	
Provide CFM exhausted:				
Describe the source of make-up air and how it is introduced. If it is conditioned, provide temp/RH:				
Does the ventilation system supply outside air for ventilation purposes?	Yes:		No:	
Provide CFM and entering air conditions (or state if it is run through A/C coil prior to entry):				
Daily hours HVAC system operates:				

## Infiltration/Other:

### Ambient Temperature Doors:

Are the doors opened to the weather outside?	Yes:		No:	
Do you use Airlock Vestibule?	Yes:		No:	
Do you use strips for the doors?	Yes:		No:	
Door 1 dimensions (W x H):		Open time (Min/Hr):		
Door 2 dimensions (W x H):		Open time (Min/Hr):		

### Cold Storage Doors and Conveyor (Openings):

Please provide this information for every door between two spaces at temperature differences greater than 20°F.

Conditions on the warm side of door (°F / RH):			
Conditions on the cold side of door (°F / RH):			
Door dimensions (W x H):		Door R value (if known):	
# of times door opened/hour		Time door is open per opening [seconds]	
Describe any additional door protection (strip curtain, air curtain, double horizontal air curtain)			

### Open Gas Flame:

Do you use open gas burners in the room?	Yes:		No:	
Gas firing rate (cu.ft./hr):				



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**Cracks:**

Are there any cracks through the walls? *	Yes:		No:	
Crack 1 dimensions (W x H):				
Air Infiltration Rate 1 (cu.ft./hr):				
Crack 2 dimensions (W x H):				
Air Infiltration Rate 2 (cu.ft./hr):				

\*e.g. (Loading Dock doors, Door Frames, Ductwork, etc.)

**Combustion engines:**

Please describe any fuel powered engines used in the space:	
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**Open Pool/Water on Surface:**

Conditions of air in the room (°F / RH or Dewpoint):	
Water surface temperature (°F):	
Area of pool surface/puddle/standing water:	
If significant air movement over water, please describe (e.g. light breeze, strong wind, fan):	

**Other:**

Provide any other information that is pertinent to this inquiry:

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**Company Signature:**

Name:		Signature:		Date:	
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