DRYER APPLICATION

PAUL O. ABBE®
Quality & Innovation Since 1911

Talk with the Experts
630-350-3012

Date _____ 20____
Company _____
Contact _____
Title _____
Address _____

_____
City _____ St _____ Zip _____
Country _____
Phone _____
Mobile _____
Fax _____
E-mail _____
How did you learn about PAUL O. ABBE? ____

_____

DRYING EXPERIENCE *(describe your present drying method)*

Type of Dryer & Size _____
How is this method performing? _____

_____

BATCH CAPACITY

by Volume _____ □ ft^3 or □ liters per batch
or by Weight _____ □ lbs. or □ kg per batch
Process will operate:
□ Continuously _____ hours/day
□ Intermittently _____ hours ON, _____ hours OFF

TEMPERATURE

Temperature of incoming product _____ □°F / □°C
Temperature during drying _____ □°F / □°C
MAXIMUM temp. during drying _____ □°F / □°C
Final temp. after drying/cool down _____ □°F / □°C

SOLID & LIQUID PRODUCT CHARACTERISTICS

SOLID COMPONENTS

Name(s)_____
Bulk Density (lowest/min.) _____ □ lbs./ft^3 / □ g/cc
Bulk Density (tapped/max.) _____ □ lbs./ft^3 / □ g/cc
Heat Capacity _____ □ BTU's/lbs.°F / □ kJ/kg°K

Solids Characteristics:
□ Friable □ Dusty □ Cohesive □ Abrasive □ Agglomerates

Particle Size: _____ □ mesh or □ µ microns

LIQUID COMPONENTS

Name(s)_____
Percent Liquid (wet basis) _____%
or Weight of Liquid only _____ □ lbs. / □ kg
Required Final Moisture Level _____ %
Percent Free Moisture _____ %
Percent Bound Moisture _____ %
Liq. Heat Capacity _____ □ BTU's/lbs.°F / □ kJ/kg°K
Heat of Vaporization _____ □ BTU's/lbs. / □ kJ/kg

LIQUID ADDITION

Are liquids added during the process? □ Yes □ No
Name(s) _____
Liquid Viscosity _____ cps @ _____ □°F / □°C
Quantity _____ □ usg / □ liters
Rate of Addition _____ □ gpm / □ lpm

HEATING JACKET

Jacket Rating: □ 14.7 psig non-code
□ ASME code stamped _____ psig

FACILITY ELEVATION (above sea level) _____ □ feet / □ meters

PRODUCT CONTACT MATERIAL

□ 304, □ 316 □ 316L Stainless Steel
□ Other Alloy _____
□ Coating _____

EXTERNAL & SUPPORT MATERIALS

□ mild steel □ 304 □ Other _____

SURFACE FINISHES

Internal: □ bead blast, □ _____ grit, □ _____ Ra (µ inch)
External: □ bead blast, □ _____ grit, □ _____ Ra (µ inch)
External Structural: □ coated, □ other _____

CLEARANCES

Clearance below Discharge Valve _____"
Height/Ceiling Restrictions _____"

UTILITIES AVAILABLE

Electrical _____ voltage, _____ phase, _____ Hz
Vacuum _____ "Hg, _____ cfm
Air _____ psig, _____ cfm
Water _____ □°F / □°C, _____ gpm, _____ psig
Steam _____ psig, _____ lbs./hour

ELECTRICAL CLASSIFICATION

Will *dryer* and *controls* be in different areas? □ Yes □ No
Motor Classification:
- Class: □ Cls. I (gas/vapor), □ Cls. II (dust)
- Division: □ Div. 1 (Class substance is present in normal conditions)
  □ Div. 2 (Class condition is present in abnormal conditions)

Electrical Enclosures: □ NEMA-12, □ NEMA-4 (washdown)
□ NEMA-4X (washdown & corrosive), □ NEMA-7&9 (XP)
□ NEMA-4,7&9, □ other _____

SUPPORT EQUIPMENT REQUIRED

□ Vacuum System
□ Heating
□ Liquid Addition
□ Liquid Filtration
□ Solids Sampler
□ Controls
□ Solvent Recovery
□ Cooling
□ Lump Breaker
□ Inert Gas Purge
□ Drum Loading/Unloading
□ other solids handling

PROJECT SCHEDULE

Start-Up Scheduled for □1st □2nd □3rd □4th Qtr., 20 _____
Is Project Funded: □ Yes □ No
Installation Location (State or Country) _____

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