



Phone: 913-831-0740
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AIRLOCK WORKSHEET

REF NO.: _____ DATE: _____
 NAME: _____
 COMPANY: _____
 ADDRESS: _____
 CITY: _____ STATE: _____ ZIP: _____
 PHONE: _____ FAX: _____
 EMAIL: _____

SIZING INFORMATION

1. Product to be conveyed: _____
 Bulk Density: _____ lbs/cu.ft. (send 5 gal. sample & MSDS if uncertain)
2. Transfer Rate (pounds per hour): _____
3. Particle size/shape: Granular Powder Pellet Irregular
4. Characteristics:
 Hygroscopic Cohesive Abrasive Temperature Sensitive
 Adhesive Free Flowing Corrosive
5. Material of Construction: Rotor: CS Stainless Housing: CS Stainless
6. Blade Design: Fixed Replaceable
7. Rotor Design: Open Ends Cosed Ends
8. Airlock Inlet Conditions: Storage Negative ___ " WC ___ Hg Pressure ___ " WC ___ PSI
9. Airlock Discharge Conditions: Storage Negative ___ " WC ___ Hg Pressure ___ " WC ___ PSI
10. Flange dimensions: Round or Square
11. Height from flange to flange:
12. Include motor and drive package: Yes No
13. Is this a new application or replacement?:
 If replacement, whose airlock? _____



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AIRLOCK SIZE AND RPM CALCULATION

Calculate Feed Rate for Rotary Airlock:

Design rate _____ lbs./hr.

Material bulk density _____ lbs./ft³

Airlock displacement _____ ft³/rev.

Expected efficiency of Airlock _____ %

_____ lbs./hr. divided by 60 min. = _____ lbs./min. divided by lbs./ft³ = _____ ft³/min.

_____ ft³/min. divided by _____ ft³/rev. = _____ RPM @ 100% fill

_____ RPM @ 100% divided by _____ % = _____ design RPM.

ADDITIONAL NOTES OR COMMENTS