Gruenberg

Granulation Dryers

Gruenberg manufactures standard granulation dryers from 15 to 800 cubic feet of chamber capacity or custom dryers based on your requirements. Steam units are rated up to 90°C. Two types of circulation systems are standard: controlled recirculation and single-pass systems.

Features

- Low watt density, Incoloy-sheathed tubular heaters
- Horizontal airflow system
- Intake and exhaust blower
- Differential air pressure switches
- HEPA filters on air intake and exhaust
- Interior and exteriors constructed of type 304L stainless steel
- 3" thick fiberglass insulation
- Uniformity of ±2°C @ 60°C typical

CHIL Construction

- Separated, insulated inner and outer surfaces
- Pliable, silicone rubber gaskets
- Less energy to maintain temperature
- Heavy duty construction
- Built around welded, structural steel frame
- One-piece unitized construction or modular
- Pre-tested, ready for operation
- Temperature uniformity

Dryer Options

- Steam heated
- Recirculation HEPA filters
- Hot water heated
- Humidity sensor
- Motorized damper
- Water-cooled coil
- Automatic door locking system
- Paperless graphic recorder
- Chamber pressure monitoring with pressure gauge and pressure transducer
- Pre-conditioning of ambient air for year round consistent drying

Explosion Resistant Granulation Dryers

Design requirements set by OSHA and NFPA 86A (Class A) must be added to any dryer processing alcohol, solvent mixes, or other volatile atmospheres within the dryer. Class A dryers require a specific exhaust rate to dilute vapors and an increased KW rating to compensate for the increased exhaust. Explosion venting relief panels are necessary, along with monitoring pressure switches that would shut off the heating system if the exhaust rate were to drop below acceptable limits.

Dryers operating in atmospheres that are Class I, Group D, require explosion resistant housings for all electrical; static-eliminating belt drives; explosion resistant motors, non-sparking hardware, purged control consoles.

Gruenberg can meet the following requirements:

- Class I, Group D
- Class I, Group E
- Class I, Group F
- Class I, Group G

Consult the factory for any other Class or Group.

Typical Dryer Sizes	Interior Width (in.)	Interior Depth (in.)	Interior Height (in.)
L18H27.0	36	36	36
T18H28	28	48	36
T18H29	26	32	60
T18H35.4	36	36	48
T18H35.9	28	30	74
T18H36	36	36	48
T18H46	20	20	20
T18H53.6	33	36	78
T18H55.76	33	40	73
T18H69.38	45	36	74
T18H72.0	36	45	72
T18H80.9	30	59	79
T18H95.8	54	42	73
T18H105	54	42	80
T18H111.7	58	52	64
T18H124.1-2D	84	37	69
T18H129	75	48	62
T18H156	42	107	60
T18H182.25	81	54	72
T18H304	106	92.5	91.5
T18H374.5	92	107	72
T18H476	139	88	76

A custom-built device to supply conditioning air to a remote chamber. Class I, Division I Class.

TPS Thermal Product Solutions

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