Desiccant Dehumidification Rotor Selection

Model Number: R 1525 x 200

| Regen Outlet | 3,155 scfm | 135.0 °F | 228.7 gr/lb |
| Regen Inlet  | 3,155 scfm | 95.0 °F | 99.0 gr/lb |
| Process Inlet| 10,000 scfm| 95.0 °F | 99.0 gr/lb |
| Process Outlet| 10,000 scfm| 142.0 °F | 58.1 gr/lb |

Rotor Depth: 200 mm
Elevation: 0 ft.

Rotor Media:
Shall be comprised of Hygromedia HSG "in situation formed" silica gel on fiberglass substrate. Desiccant loading shall not be less than 80% with media density of 16 lbs/FT3. Wall thickness shall not exceed 0.008 in., with a flute height of 1.5 mm and flute width of 3.0 mm. Media shall be able to withstand up to 500°FDB without reduction in dehumidification performance and up to 2000°FDB without loss of mechanical integrity. Media may be washed in non alkaline water without loss of performance. Media shall be face coated to ensure long lasting mechanical integrity. Rated lifetime shall not be less than 87,600 hours and shall be defined by media performance meeting >90% of original specification.

Rotor Frame:
Shall be comprised of full depth welded 10 gage steel spokes with 10 gage media retention strip and 4140 CRS "Drawn over Mandrel" thick wall hub. Spokes shall terminate with heavy duty welded coupling nuts to allow for bolting to outer band. Outer band shall be constructed of stainless steel, with or without welded flanges to meet customer specification. Outer band shall be made continuous by welding, but shall be bolted to spoke ends to facilitate removal.

Rotor Bearings:
Shall be sealed 200,000 hour rated non-maintenance type, preloaded and prelubricated for high temperature environments. Rotor bearings shall require press fit to rotor hub and shall be supplied, by the manufacturer, with the rotor.

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