PRODUCT DATASHEET

Float-Glass Tin-Bath Atmosphere Gas Skid

Nitrogen–hydrogen mixing and zone control for float-glass lines

Product page





Close-up: gas mixing train

OVERVIEW

The Tech Inc. Float-Glass Tin-Bath Atmosphere Gas Skid mixes nitrogen and hydrogen and feeds the protective atmosphere to each zone of a float-glass tin bath. Mass-flow controllers set the hydrogen share, analysers watch oxygen and dew point, and interlocks protect the line.

TYPICAL DESIGN DATA

Hydrogen share	Adjustable, typically a few percent in nitrogen
Zones	Up to about 20 bath zones
Analysis	Oxygen and dew point, with alarms
Codes and standards	Pressure parts to ASME B31.3; hazardous-area components to IEC 60079
Materials	316 stainless tubing and piping
Safety	Hydrogen shut-off, interlocks and hazardous-area components
Control	PLC with HMI and DCS interface

MODELS AND CAPACITIES

- **TI-TBA-500** – about 500 Nm³/h
- **TI-TBA-1500** – about 1,500 Nm³/h
- **TI-TBA-3000** – about 3,000 Nm³/h
- **TI-TBA-6000** – about 6,000 Nm³/h

Indicative total atmosphere flows.

ORDERING CODE

Example **TI-TBA-1500-12-A**: **1500** total atmosphere flow, Nm³/h; **12** number of bath zones; **A** options: A analyser package, R redundant mass-flow controllers.

SCOPE OF SUPPLY

Included: factory acceptance test with a written report; drawings for approval, material certificates and manual.
Options: nitrogen generator; hydrogen generator; additional zones; redundant analysers; retrofit of an existing line.

KEY ADVANTAGES

- **Clean glass** – oxygen kept out of the bath
- **Safe** – hydrogen interlocks and analysers
- **Accurate** – mass-flow controlled mixing
- **Integrated** – DCS-ready controls

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