i'Tec_L2
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Keywords: Liquid, Incorporation, Dosage, Specification

Purchasing specifications for a liquid incorporation system

1. Contact

Technical Order Management

Company: .....
Surname: .....
First name: .....
Address: .....
.....
.....
Tel.: .....
Fax : .....
Email: .....

Administrative Order Management

Surname: .....
First name: .....
Address: .....
.....
.....
Tel.: .....
Fax : .....
Email: .....

Industrial site contact

Surname: .....
First name: .....
Address: .....
.....
.....
Tel.: .....
Fax : .....
Email: .....

2. Order focus

Replacement ..... ☐ **New line** ..... ☐
Load-based incorporation – Mixer ..... ☐
Continuous incorporation ..... ☐
Molasser ..... ☐ Agitator ..... ☐
Coater/enzymer ..... ☐
Other: .....
Offloading ..... ☐
Storage tank ..... ☐
Transfer circuit ..... ☐
Filtration ..... ☐
Buffer tank ..... ☐
Transfer pump ..... ☐
Dosing pump ..... ☐
Weighing system ..... ☐
Flowmeter ..... ☐
Cooling system ..... ☐
Heating system ..... ☐
Agitation system ..... ☐
Thermal insulation ..... ☐
Solid flow measurement ..... ☐
Injection control ..... ☐
Injection system ..... ☐
Air expulsion system ..... ☐
Flushing system ..... ☐

3. Environment

Installation location: .....
.....
Offloading / Storage distance: ..... m
Storage /injection point distance: ..... m
Upstream flow rate*: …m^3/h **Downstream flow rate:** ..... m^3/h
** If handling is involved*
Specific connection features:
Upstream: .....
.....
.....

Downstream: .....

.....

.....

.....

Load-based incorporation

Type of mixer: .....

Type of impeller: .....

Useful volume: .....

Min. loads: .....t Max. loads: .....t

Linear speed: .....m/s

Dimensions (Width x Length x Height):

……..…..m X……..…..m X ……..…….m

Nb of loads / hour: .....

Total mixing time: .....s.

Available injection time: .....s.

Number of existing incorporation lines: .....

Detail: .....

.....

.....

.....

Continuous incorporation

Feed type: Chain.....☐ Belt .....☐

Screw☐ Alveolar .....☐ Other .....☐

Specify: .....

Flow width: .....mm

Flow thickness: .....mm

Max. volume flow: . ..... m^3/h

Solid flow measurement

Theoretical .....☐ Measured .....☐

4. Characteristics

Storage tank

Volume: ..... m^3

Dimensions: ..... m X..... m X.....m

Shape: .....

Materials: .....

Agitated ..... ☐ Heated ..... ☐ Cooled .....☐

Heat lagged ☐ With purge .... ☐ Levels .....☐

Type of heating system: .....

Temperature: .....°C

Layout: Inside..... ☐ Outside.....☐

Liquid transfer circuit

Internal diameter: .....mm

Length: .....m

Drop: .....m

Number of bends: .....

Number of tapping points: .....

Number of purges at high points: .....

Number of block valves: .....

Number of filtration systems: .....

Mesh filters (mm): .....

Type of piping material: .....

Heat lagged... ☐ Compliance with colour coding. ☐

Layout: Inside .....☐ Outside ..... ☐

Buffer tank

Volume: .....m^3

Material: .....

Distance to the injection point: ..... m

Agitated .....☐ Heated.....☐ Cooled ..... ☐

Heat lagged.☐ With purge.....☐ Levels ..... ☐

Liquid injection circuit

Internal diameter: ..... mm

Length: ..... m

Drop: ..... m

Number of bends: .....

Number of tapping points: .....

Number of purges at high points: .....

Number of block valves: .....

Number of filtration systems: .....

Mesh filters: .....

Type of piping material: .....

Heat lagged... ☐ Compliance with colour coding. ☐

Characteristics of the transfer pump (Type, flow rate, brand, etc.): .....

.....

.....

Characteristics of the dosing pump (Type, flow rate, brand, etc.): .....

.....

.....

Weighing system

One liquid..... ☐ Several liquids..... ☐

Volume: .....m^3

Material: .....

Min. weight: ..... Max. weight: .....

Scale division: .....

Flowmeter

Mass flow ..... ☐ Volume flow ..... ☐

Electromagnetic ..... ☐

Characteristics (Type, flow range, accuracy, brand, etc.): .....

.....

.....

Galvanised steel…☐ Stainless steel…☐ Plastic…☐

Other: ……

Injection point

Number: .....

Air expulsion system for each injection point.....☐

Nature of the flushing liquid: .....

.....

Injectors/nozzles

Calibrated injector…☐ Tapered jet…☐ Flat jet ...☐

Other: .....

5. Conditions of use

Number of liquids on the circuit: .....

Multi-purpose line ... ☐ **Specialised line**.....☐

Expected performance

Conformity (expected %): .....

Homogeneity: .....

Expected additional performance: .....

.....

.....

.....

6. Checks and Safety

Control valve for flowmeters with pressure equivalent to the injectors .....☐

Specific network identification.....☐

Special safety feature related to the liquid.....☐

Installation's ATEX zone

20...☐ 21...☐ 22...☐ Off-zone.....☐

Nozzle removal (inspection, cleaning and maintenance).....☐

7. Access and Cleaning

Removable circuit sections .....☐

Access to the inside of the buffer tank .....☐

The installation must provide easy access to all machine components in order to facilitate their cleaning and maintenance.

8. Annexes

Ex. plant.....☐

Carriage paid .....☐

Other (Incoterms) .....☐

Commissioning requirements:.....

.....

.....

Training: .....☐

Printed doc.: .....☐ Doc. CD-ROM: .....☐

Spare parts and wear parts .....☐

Terms of after-sales service warranties .....☐

Delivery times: .....

Assembly times: .....

Commissioning times: .....

9. Treated products

Multi-product line ..... ☐ Specialised line.....☐

Product type and expectation

Products*	Presentation	Flow range (t/h)

* Supply of standard formulas

Physical-chemical characteristics of the liquids

Liquids	pH / Corrosivity	Density at 20°C	Viscosity at the operating temperature	Hazardous substances classification**	Other

** send safety data sheets as and when necessary

Characteristics of the liquid incorporation system

Liquids	Bottom mesh filter	Flow rate (kg/h)		Incorporation (%)		Operating pressure (bar)	Operating temperature (°C)
		Min.	Max.	Min.	Max.		

10. Layout diagram or Diagram component