J-Tec seminar on flue gas treatment

On November 8, J-TEC organized an in-house seminar entitled "Flue Gas Treatment for Thermal Processes". On this day we welcomed guests from the waste processing, cement, glass, steel, non-ferro and chemical industries.

Speakers from well-known companies discussed the most recent developments in thermal processes with respect to raw materials, technologies, and market developments.

Three of these companies focused on solutions to comply with current EU guidelines on emission standards in flue gas treatment. Xavier Gillet of the company Lhoist gave a presentation about Sorbacal®, Marc Thijssen from Solvay discussed the use of Neutrec®, and José Givron's and Gordon Billinge's presentation (CPL Carbon Link) dealt with 'Actived Carbon'. This mix of different companies and different points of view resulted in some interesting debates.

Two companies were prepared to give our guests some insight into their incineration plants. Hugo Knevels and Maarten Meersschaert of Bionerga talked about incineration in Limburg; Alain Chatenet talked about incineration at Veolia Propreté.

Finally, Eugène Bechoux of Saretco gave a presentation on 'New generation of incineration grates' and our own Mark Steenhoudt presented J-TEC's scope of supply and some of our case studies from the incineration plants of Dalkia (Knokke) and IVOO (Ostend).

Of course a tour of our own pilot plant was also part of the program.

Judging from the many positive reactions -*'nice seminar, very good for networking, interesting presentations' – 'impressive! Very professional'* (about our pilot plant) the day was a great success.

Tour of the pilot plant

During the presentations

Conclusion of the day

Upcoming events

March 27-29, 2007:
Powtech 2007 (NürnbergMesse)
www.powtech.de

June 5-7, 2007:
Solids (Antwerp Expo)
www.easyfairs.com

November 21-22, 2007:
Solids (Ahoy, Rotterdam)
www.easyfairs.com

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OUR PEOPLE MAKE THE DIFFERENCE

J-TEC MATERIAL HANDLING

NEWSLETTER

J-TEC MATERIAL HANDLING

FEBRUARY 2007

OUR PEOPLE MAKE THE DIFFERENCE

Lightweight equipment for isolator at Organon

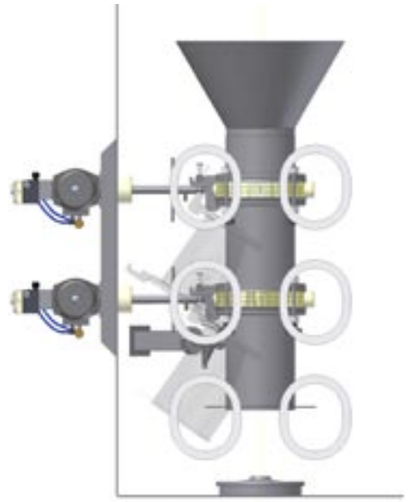
In recent years J-TEC's unique dosing valve has already found several applications in the pharmaceutical world. This time, J-Tec implemented 35 dosing valves at the Organon plant in Oss (The Netherlands). Organon is one of the world's biggest manufacturers of active pharmaceutical ingredients and market leader in the development of innovative medication in the field of fertility, gynaecology, anesthesia and neuroscience.

Lightweight equipment

Apart from supplying the dosing valves, J-TEC designed lightweight equipment to be used in isolators. This kind of isolators with gloves protect the operator from hazardous substances.

Because the operator can only handle the construction through the support rings of the isolator, there were two requirements: dismantling should be fast and easy and secondly, the construction has to be light.

To meet these requirements, J-Tec's R& D department designed special lightweight flanges with hooks (in comparison, normal flanges weigh over 10 times more). The result: the maximum weight to be lifted does not exceed 6 kg. Moreover, because of the hook system, the operator has to hold the weight for only a few seconds. The whole system can be dismantled by taking out 4 hammer bolts.



Construction with two dosing valves inside isolator

Dismantling

CIP Process

Dosing and weighing in continuous liner

VISIT US AT POWTECH: HALL 9, STAND 433

Reactor filling at Seppic

SEPPIC is part of the Business Unit Healthcare of Air Liquide, the world leader in industrial and medical gases and related services. The Zwijndrecht (B) site has been producing liquid alkoxylates since June 2000.

The basic raw materials ethylene oxide and propylene oxide that are used for the intermediate alkoxylates are supplied from regional production facilities. About 120 different products are produced at Seppic via a batch process, starting from liquid and solid raw materials.

End of September 2006, a new reactor was taken into production in Zwijndrecht. J-TEC Material Handling was selected for supplying and automating the solids handling part of the project. The purpose of this automation was to improve the process control and to reduce total batch time.

During the design phase we had to take into account the following factors: the dust explosive characteristics of the different additives, the requested dosing accuracy, the need for easy cleaning and quick product changeovers.

Turnkey Big Bag® Unloading Unit

J-TEC's solution consisted of a turnkey Big Bag® unloading unit with automatic outlet spout stretch mechanism and integrated J-TEC patented dosing valve. The whole unit was carried out as a loss-in-weight batcher. Special attention was given to robustness, simplicity and easy operation.

In addition a small bag dumping unit was installed. One central dedusting filter for the dust-free handling of the bags and Big Bags® above the reactor was positioned outside the building on the ground level.

The start up of the unit was done within the scheduled time frame and to the client's satisfaction.

Big Bag® unloading unit

Central dedusting unit

Big Bag® unloading and bag dumping unit

Powder handling for new production line dairy industry

Because of a growing demand, one of Europe's leading dairy companies decided to build a new production line. J-TEC Material Handling was chosen as the supplier for the solids part of this new line, which includes both solid and liquid ingredients.

The powder installation is located in a separate, conditioned area and involves the weighing, dosing and conveying of raw materials. After the dry material handling the powders are mixed with liquids, and then further processed to arrive at the end product.
The installation built by J-TEC is largely made up of three parts: a combined bag/Big Bag® discharge station, two Big Bag® discharge units, and a bag dumping unit on load cells.

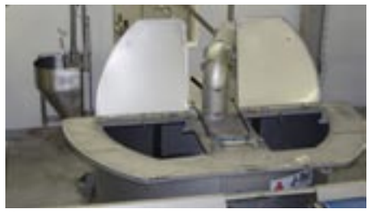
Combined Discharging
One particular ingredient that is processed in this part of the installation can be supplied in Big Bags® as well as normal bags. To overcome this difficulty J-TEC designed a combined Bag/Big Bag® discharge station that can accommodate both types of bag. The design of the discharge clamp ensures dust-free discharging of the Big Bag®. The frame on which the Big Bag® rests also serves as a fall protection, to protect the operator's hands. The product falls into a hopper, through a lump breaker and is then transported to the 'wet area' by means of a vibrating tray.

Big Bag® Discharge Units
For the discharging and dosing of another type of ingredient J-TEC installed two Big Bag® discharge units, each equipped with a J-TEC dosing valve that is connected to a weighing system. This dosing valve, which functions on the principle of vibrations, allows an accuracy of 0,2%.

Bag Dumping Unit
Additional raw materials can be discharged into the 'wet area' by means of a bag dumping unit on load cells.
This installation was designed with EHEDG guidelines in mind, and applied where possible.

Combined Big Bag® / Bag discharge unit

Big Bag® discharge units



Bag dumping unit on load cells

Overview of the powder handling installation