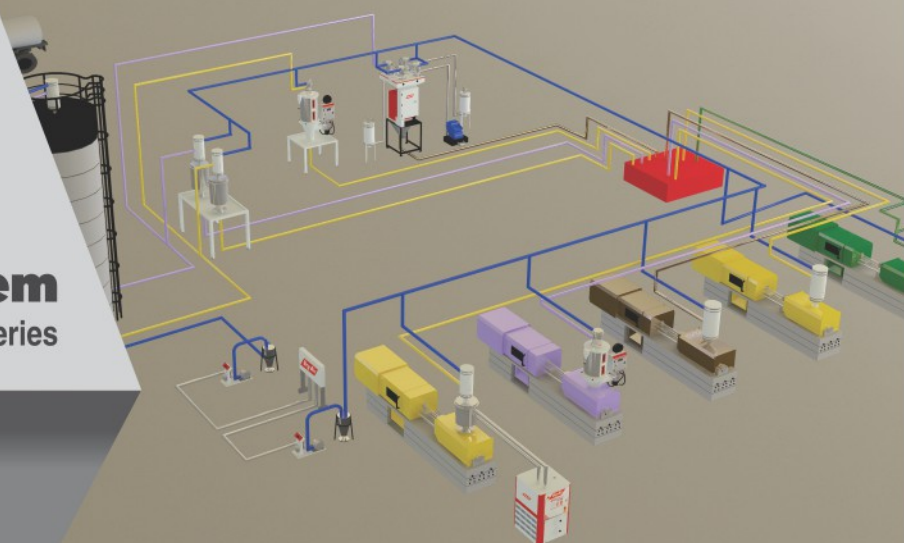


www.bryair.com

Bry-Air® Conveying System
BCS series



Bry-Air®
Drying • Conveying • Blending



Developed to Create A No Spillage, No Wastage, Clean and Accident Free Shop Floor by Ensuring “The Right Material at the Right Place . . . at Right Time”

Bry-Air® Conveying System

Bry-Air Conveying system have been designed to handle the most crucial yet critical process, Extrusion. The system has been designed keeping in view the continuity required in the extrusion process and thus no place for manual loading of the raw materials.

The manual methods include diesel vehicles and other medium of transportation which causes both air and noise pollution. These vehicles are also, not safe for the workers who are working in the premises. Manual feeding can also cause spillage of material.

Bry-Air Conveying System automates resin conveying which helps to reduce downtime and increase up time, thus reducing cost and improving competitive edge.

Advantages

- No spillage, accident free shop floor, no material wastage
- Quick change over of material and continuous feed of material
- Effective material dust removal
- Eradicating moulding defects

How does the Conveying System work?

Two or more receivers are connected to a central regenerative vacuum pump station through a central dust collector. The PLC control unit performs the function of connecting each receiver to the central regenerative vacuum pump station, in sequence, depending on the demand of material from the respective receivers.

If the signal for material demand exists, it connects that particular receiver to the central regenerative vacuum pump station and the conveying cycle starts. The bypass valve closes and the vacuum valve in the respective receiver opens simultaneously. The differential pressure, which builds up in the vacuum line, continues through the receiver to the extraction point of the material line.

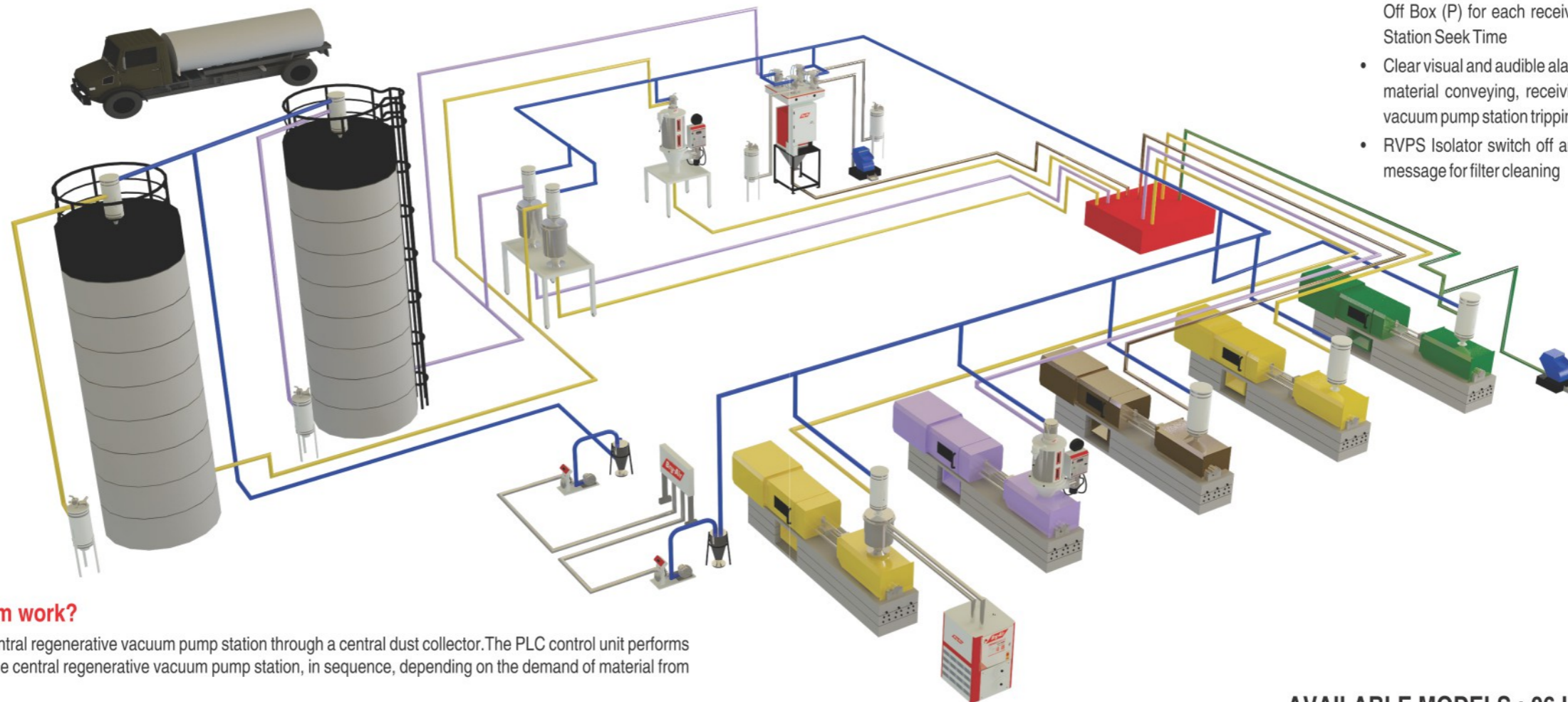
At the material extraction point, a mixture of air and granules is formed and rushes through the material line. The granule is screened off in the receiver by the screen filter. The dust particles contained in the granule, however, pass through the screen filter, and are collected at the central dust collector.

After the material conveying is completed, the PLC control unit checks the next receiver for the signal for the material demand. It starts the conveying cycle, if the signal for material demand exists, otherwise it opens the bypass valve and allows the atmospheric air to enter the regenerative vacuum pump station. The pump is switched off if the by-pass air valve remains open for a preset time. However, the PLC control unit continues to check each receiver for the material requirement signal. It switches on the pump, whenever there is a signal for material requirement from any receiver, and conveying cycle starts.

Bry-Air Conveying System automates your resin conveying allowing you to reduce down time and increase up time, thus, reducing costs and improving your competitive edge

BrySmart® Control

- Touch Screen Colour Display & Management
- Password Protected Data Entry System
- Clear functional colour display of each receiver and regenerative vacuum pump station
- Programming options include Load Time, Dump Time, Regrind in %, Conveying Time with respect to source in case of usage of Vacuum Take Off Box (P) for each receiver separately & Regenerative Vacuum Pump Station Seek Time
- Clear visual and audible alarm with message for material shortage, delay in material conveying, receiving and waiting for the material, regenerative vacuum pump station tripping
- RVPS Isolator switch off and emergency switch off. Programmable alert message for filter cleaning



Receiver

- SS 304 used in manufacturing machine parts which are coming in contact with raw material during conveying
- Integrated proximity sensor activating material demand
- Special dump valve design mounted on a bearing for a smooth movement of dump valve's blanking disc
- SS Mesh Filter of 530 micron separates the resin from the air
- Vacuum Break Valve for Automated Mesh Filter cleaning and quick evacuation
- Special Flapper with long life silicone seals at Mesh Filter, Load Valve, Dump Valve for leak proof vacuum, hence allowing the receiver to be used at higher temperature
- Special Flapper at the material inlet to deflect the incoming material away from the screen and preventing any damage caused to the mesh
- Access door for servicing & inspection of dump valve assembly without any tools. Clearly visible tower light for status of operation and fault

AVAILABLE MODELS : 06 Ltr, 15 Ltr, 30 Ltr, 60 Ltr, 75 Ltr.



Regenerative Vacuum Pump Station

- Quiet, low maintenance brush less regenerative pumps provide powerful vacuum to convey free flowing pellets and regrind.
- Each unit shipped is fully assembled and permanently lubricated to deliver optimum vacuum and is consolidated on a compact frame
- Optional discharge selection valve allows exhaust air, either to be recycled back to the closed loop dry air system, or discharged to atmosphere
- Specially designed by-pass valve with silencer, which allows pump to run on past system demand for prevention of rapid start/ stop cycles and pump over heating
- Safety relief valve and vacuum gauge to provide the safety to the pump during certain unavoidable circumstances
- State-of-the-art microprocessor controlled pump safety system which indicates voltage, current, frequency, load bar graph, Fault display of over load, under voltage, over voltage, phase sequence reversal & failure



Central Dust Collector

- Protects the pump and reduces filter maintenance by collecting fine dust
- The separated fine dust collected easily cleaned and the sight glass in the chamber provides view for inspection
- Rugged CRC Powder Coated Self Standing Chamber which can be located any where between the pump and the conveying system



BCS Conveying System can cater to various requirements such as ...

- Conveying and mixing of regrind material with virgin material automatically
- Purging or cleaning the material line at the end of every conveying cycle incase of conveying dried material
- Conveying the material with dry air

4 EASY WAYS TO REACH US



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