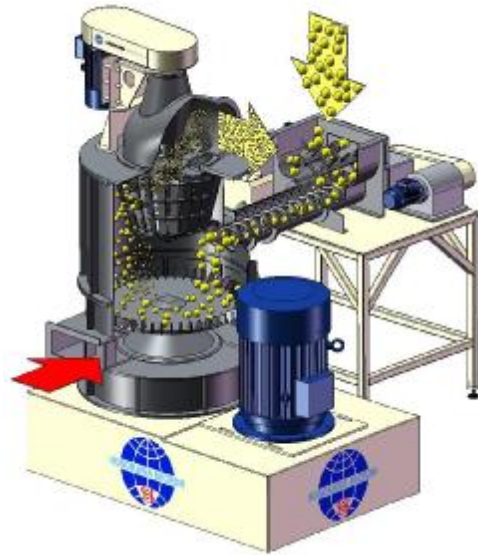


Enlarged operating window of our pilot flashdryer

Our flash dryers are capable of drying, de-agglomerating / dispersing and classifying of wet powders, filter cakes, pastes and slurries. One single machine for 3 unit operations, to save space and operational costs.

This powerful flash dryer, called the Drymeister, is a direct dryer. Heat is basically transferred into the product by a flow of gas to evaporate water, solvents or volatiles. Based on the application, different heating media can be used: hot-air or nitrogen.



Optimizing for closed loop operation

Customers handle materials which create often potential explosion risks due to their natures. HMBV has a Drymeister pilot installation which can run under inert gas and is used for 30% of our drying tests. Nevertheless, our system showed limitation in term of evaporation capacity. In fact we were limited around 15m³/min with an inlet temperature of around 180°C, when the pilot system could be able to run at 20-25m³/min with an inlet temperature of 450°C without problems.

Therefore we upgraded our test installation and we have now **an ultra performing pilot plant** which offers:

- **The best drying efficiency** for flash drying in closed loop operation. An indirect air heater with high installed capacity which supplies inlet temperature up to 450°C at an airflow of 25 m³/min
- **A larger filtration surface** for critical materials or for operation with high air flow
- A New condenser with a **cooling capacity of 200 kW** in order to cope with the increased flow
- An open and closed loop system integrated in one system. It has increased process measurements for e.g. temperatures, differential pressures, diverse flows and **online trending**

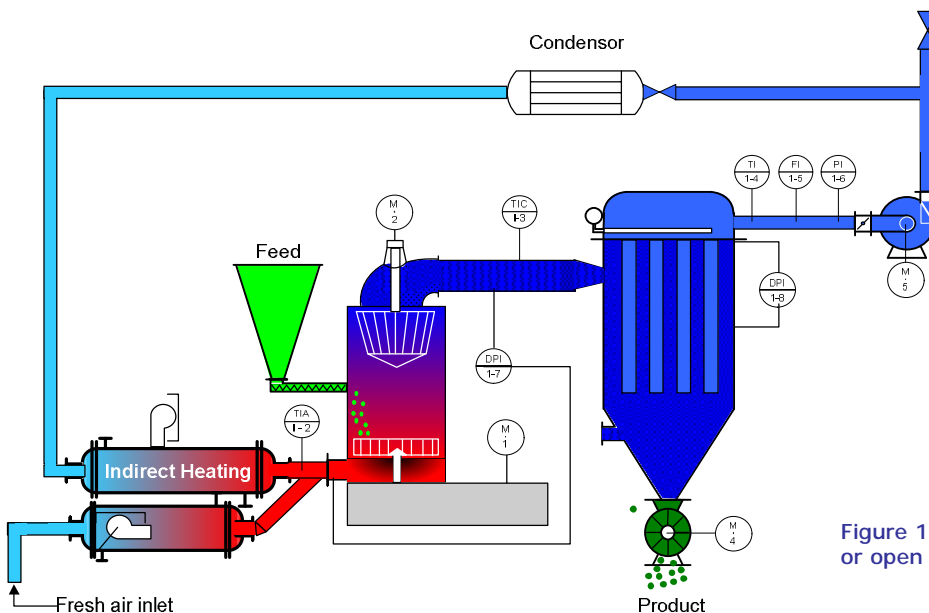


Figure 1: closed loop or open system DMR

DMR proven technology for:

SiC	Metal oxides & hydroxides	Cellulose
All Organic, Inorganic and dye Pigments	Minerals like e.g. Bentonite, Zeolite, Sepiolite, Kaolin	Suspension PVC
Suger replacers like Aspartame	Fish and meat products	Alginates
PCC & other carbonates	Gypsum (calcination)	Organic food residues like for example Okara

New opportunities

Products which have an explosion risk or which contains solvents to evaporate (e.g. ethanol, acetone, etc.) can be dried in HMBV pilot plant in the most ideal economical circumstances which will results in:

- The smallest possible industrial process installation
- A higher evaporation capacity with the same installation
- A possible reduced investment level
- An excellent scaling up for large installation with ideal pilot running conditions



Contact

Do you need more information on our new test installation or a product training in the near future, please feel free to contact us!