



The MDS makes the difference!

The MDS technology is composed of thousands of fibers that remove humidity from the air stream. The result is a dew-point constant in all conditions, regardless of the quality of compressed air for 24 hours a day, 365 days year.

The traditional compressed air dehumidifiers cannot be called truly "dehumidifiers" because they do not remove water from the air

no zeolite

antistress system

constant dew-point



- **Always Produces -50° Dew Point Process Air**
The result is properly dried material...YEAR ROUND!
- **Uses Far Less Compressed Air Than Conventional Compressed Air Dryers or Add-On Membrane Models**
The result is reduced energy costs.
- **Desiccant Free Operation**
The result is higher part quality because there are no dew point spikes or deviations and no desiccant dust to contaminate resin.
- **New, Easy-To-Use Control**
Larger numerals and easier to change settings
- **Absolutely Minimal Maintenance**
Changing 2 coalescing filter elements once per year is the only scheduled maintenance.

Plus:

- Desiccant-free drying for all thermoplastics
- Constant -50° or lower dew point process air in less than 4 minutes
- Works with any source of compressed air... refrigerated or pre-dried air is not required
- Energy Saver standard by antistress system
- Standard process temperature 180°C
- Stainless steel hopper standard through 50 liters
- Slide gate drain-port and slide-gate discharge on all hoppers
- Microprocessor temperature controller
- Machine mount or stand mount models
- Insulated hopper on all models
- Over-temperature indicator
- Low air pressure indicator
- 2 Year warranty

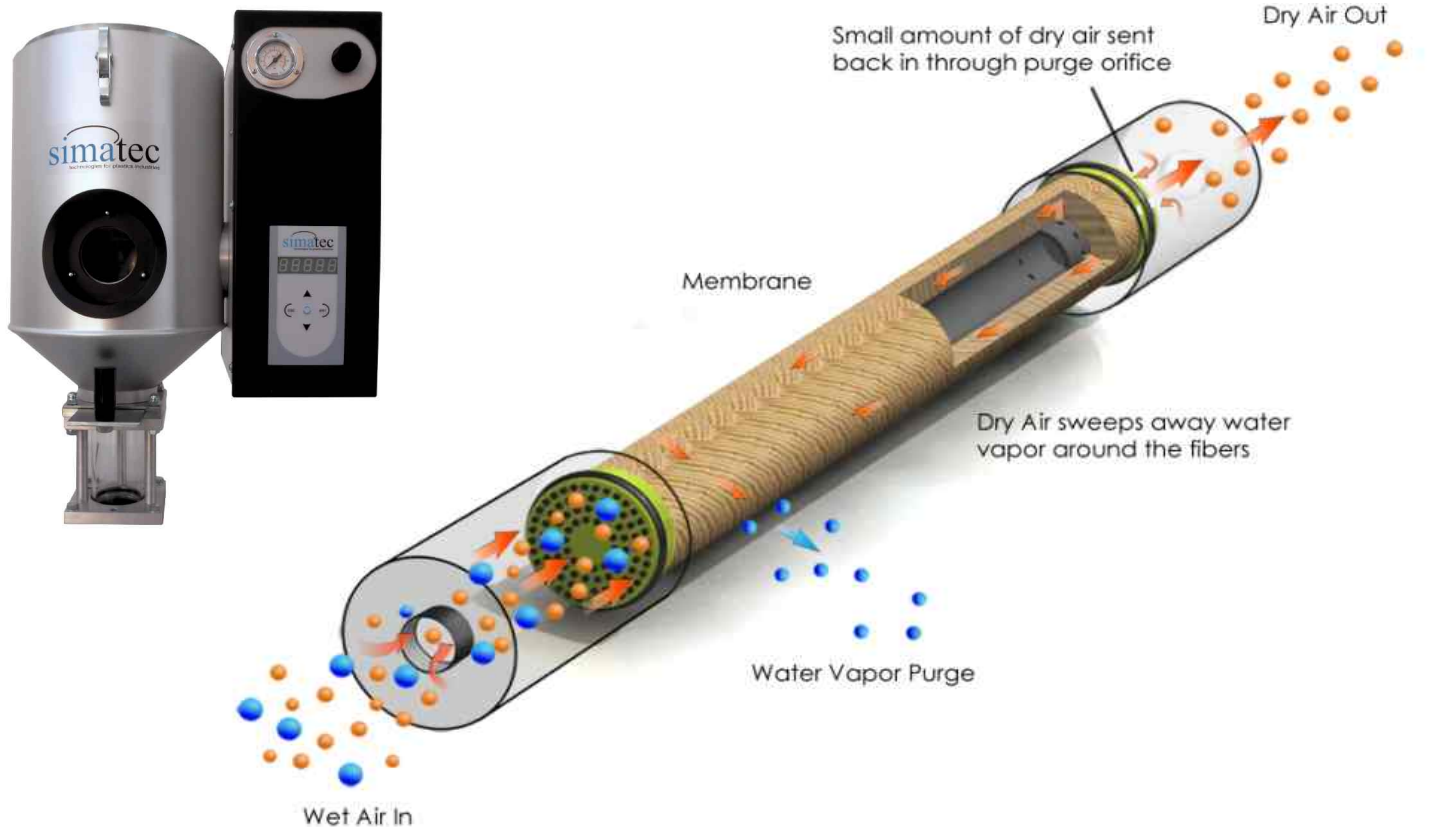
MDS THE CLEAN TECHNOLOGY

As works the MDS technology.....

The principle is simple - the design is **PATENTED**.

- Introduce compressed air
- The water vapor is separated from compressed air
- A flow of dehumidified air removes the water vapor
- Drying air with a dew point of -50°C

simatec
technologies for plastics industries



Performance

The MDS Dryer:

- Operates at full capacity on normal compressed air.
- Always produces -50° dew point (or less) process air.

The result:

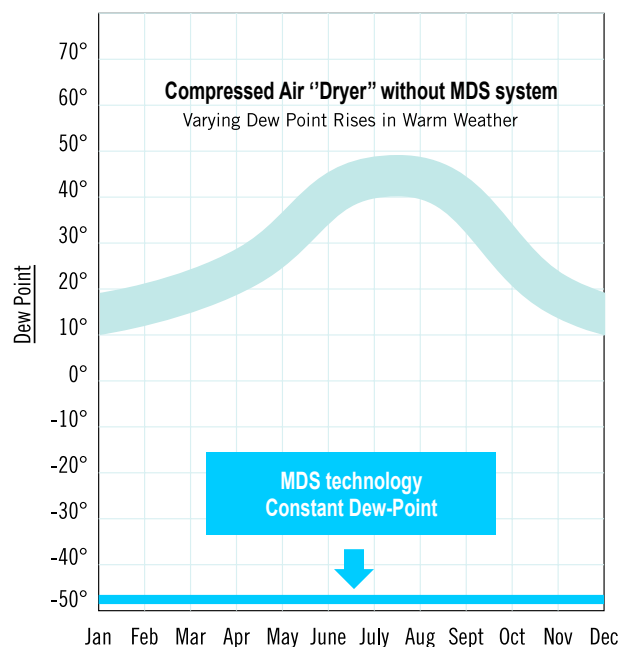
Properly dried material... YEAR ROUND!

Compressed Air "Dryer" Without MDS system:

- Require cool, pre-dried incoming air at 100 psi.
- NEVER produce -50° dew point process air.

The result:

Variation in resin dryness and product characteristics.



Energy Usage

The MDS Dryer:

- Reduces compressed air consumption with patented design.
- Requires only 80 psi for full capacity operation.

The result:

Reduced energy costs.

Compressed Air “Dryer” Without MDS system:

- Use nearly 2 times the compressed air compared to the MDS dryer.

Add-On Membrane Models:

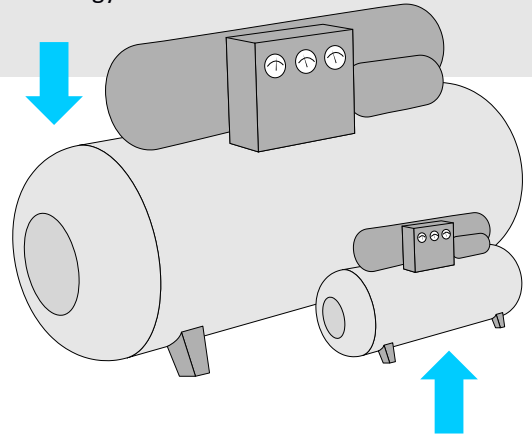
- Use nearly 3 times the compressed air compared to the MDS dryer.

The result:

Much higher energy costs.

Compressed Air “Dryers”

Conventional single-pass design wastes compressed air and increases energy costs.



MDS Technology Dryer

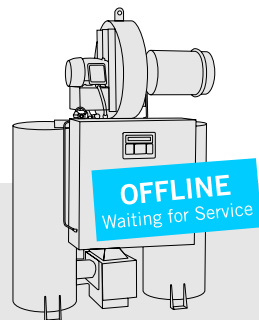
Uses 1/2 – 1/3 the compressed air.

The conventional compressed air dryers

DESICCANT DRYERS

High Maintenance

- Moving valves wear out.
- Desiccant needs to be replaced.
- 4-hour startup time.
- Dew point spikes and deviations.



Desiccant Dryer

COMPRESSED AIR “DRYERS” WITHOUT MDS TECHNOLOGY

Are not dryers – do not remove moisture from air

- NEVER produce -50° process air.
- Only reduces the dew point of incoming air by about 40-50° F.
- Consume about 3-times more compressed air than a MDS dryer.
- Have to be taken off-line during warm months.
- A compressed air dryer without a membrane is not a full-fledged dryer.



Compressed Air “Dryer” Without MDS technology

COMPRESSED AIR “DRYERS” WITH ADD-ON MEMBRANE

Increases energy usage by about 250%

- Require the processor to install an external membrane.
- Usually not filtration protected and can be easily contaminated.



Compressed Air “Dryer” With Add-On Membrane

Resin Contamination

The MDS Dryer:

DESICCANT-FREE OPERATION

Non-desiccant operation means:

- Uniform dew point year round.
- No valves.
- No desiccant to contaminate resin.
- No desiccant replacement.

The result:

Uniform dew point without resin contamination... meaning higher part quality.

Desiccant Free
Operation

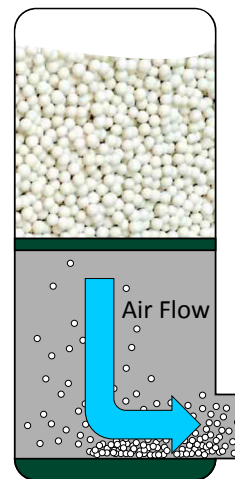


Desiccant Bed Dryers:

- Dew point spikes and variation.
- Desiccant begins to disintegrate as soon as it is put into service.
- Reduced effectiveness of the drying process.
- Desiccant dust can contaminate the resin.

The result:

Lack of part uniformity.



Disintegrating Desiccant

Reduces efficiency, can contaminate resin and must be replaced regularly.

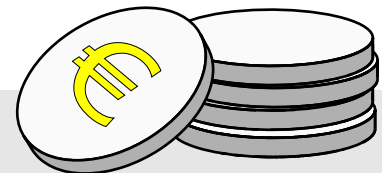
Maintenance/Downtime

The MDS Dryer:

- Change 2 filter elements once per year!
- No moving parts.
- No desiccant to change.
- No complications... turn the power on, set the temperatures and you have -50 dew point air in 4 minutes.

The result:

Minimal cost for parts and near-zero maintenance.



MDS DRYER

MDS dryers cost cents/day

Desiccant Dryers:

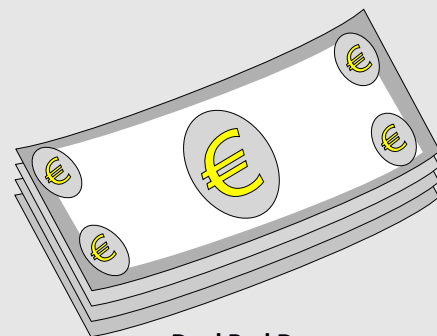
- A multitude of moving parts to be replaced.
- Desiccant which requires constant vigilance and replacement.

Non-Membrane Compressed Air Dryers:

- Downtime in the summer because of improperly dried resin.

The result:

Higher costs and lost production time.



Dual Bed Dryers

Desiccant dryers and conventional compressed air dryers have high maintenance and downtime costs.



The opinion from a satisfied customer:

"In the past, most of our defects were not a proper dehumidification. Since we have gone from the traditional dehumidifiers to the MDS have drastically reduced defects on moulding media. The dehumidifiers MDS are at the highest level with a request for very little maintenance. This reduces costs considerably. We currently have more than 15 MDS in our group machines. 5 of these dehumidifiers are part of a centralized system. A great product and a great service ... this makes us happy and the most important thing our customers are happy who appreciate the quality of the final product."

