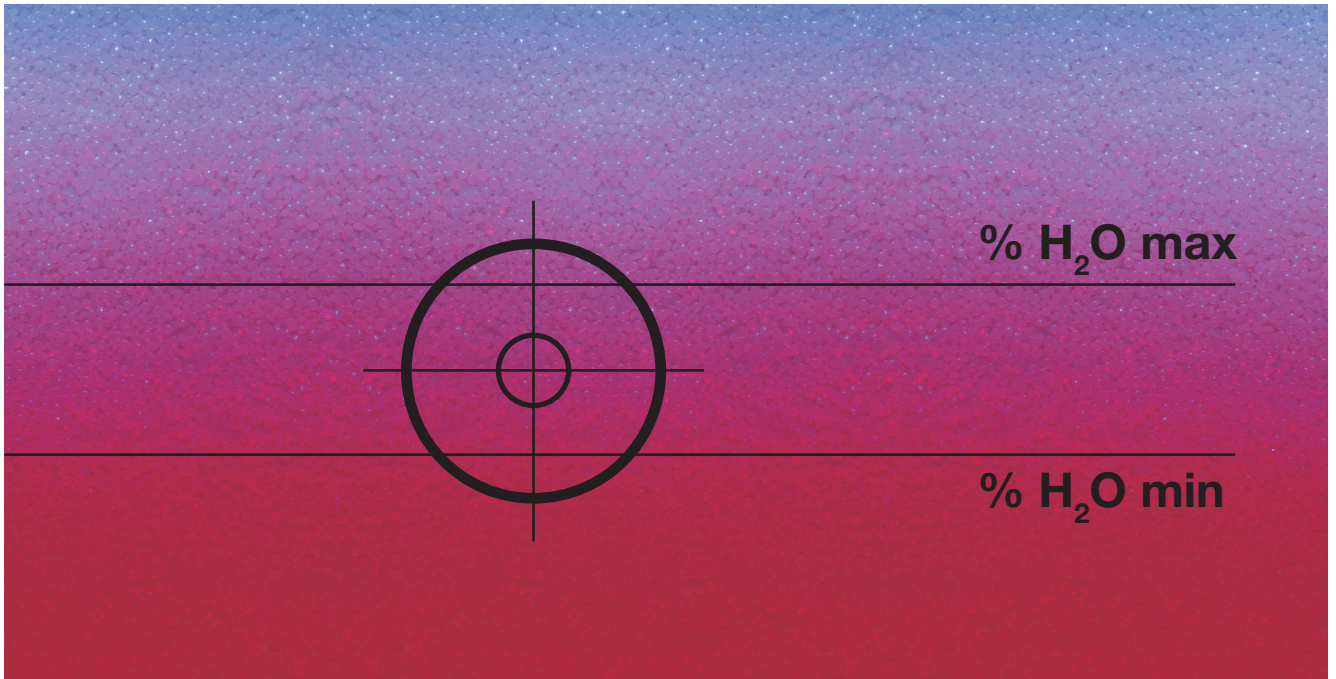


digicolor®



Drying to precision
drywell drying systems



drywell drying systems – drying to precision

The future oriented **drywell** drying system includes a product family of dry air drying systems for use in modern processing of plastic materials independent of the weather conditions, and offers the following benefits:

- **Space saving modular system**
Dryer and hopper combined in a single device
- **Compliance with close residual humidity tolerances**
All required parameters are controlled
- **Low energy consumption**
Efficient design and an intelligent control system
- **Efficient production**
Decreased investment and operating costs

The robust stainless steel drying hopper, with optimised fluid flow characteristics, is combined with the dry air generator in a single device.

Hoppers are insulated with thick walls, even in the outlet area of the cone.



Centralised system including the drying air generators. Every dryer unit can be controlled individually.

Space saving modular system

The modular drying system shown in the figure can easily be installed and removed. The flexible positioning of dryer units is a particularly beneficial feature: They can either be installed

- next to each other as a centralised system,
- movable at the processing machines, or be
- installed above the feeding zone of the processing machine.

This system allows the optimised adaptation of dryer units to the spatial conditions of your production environment. This allows you to use significantly smaller footprints than usual for the equipment.

Equipment / special features:

System works well independent of the weather conditions

Constant dew point

Integrated over-dry protection

Drying time management (DTM)

Speed controlled blower

Dust free drying air

**Low accumulation of additive deposits,
SOFT REG principle**

No mixing of additives

Database for drying parameters

No cooling water and compressed air required

Compliance with close residual humidity tolerances

Close residual humidity tolerances of raw materials are specified in the documentation of plastic materials on an ever increasing scale. For instance, a residual H₂O content of 0.03 – 0.05 % max is required immediately before processing.

The new generation of **drywell** dryer systems allows that you can set up all parameters that have an effect on the result of the drying process, like:

- The specific drying air flow rate
- The drying temperature
- The drying time
- The dew point

Please refer to the new digicolor table of drying parameters.

This allows for an optimisation of the physical characteristics of plastic items in manufacturing, and a significantly better compliance with the required tolerances for product dimensions. A user friendly database provides you with a convenient opportunity for storing and retrieving of all data of the drying process relevant to quality.



Flexible unit right next to the processing machine

Significant reduction of power consumption

The new **drywell** drying system allows you to benefit from lower power consumption, since every drying hopper is individually controlled. This provides for a perfect drying of granulates for every application. The following features additionally facilitate the efficient use of power in operation:

- **Drying time management (DTM)**
Drying time adjustment according to the production throughput
- **Drying process management and over-dry protection**
The material is dried neither too little nor too much
- **No long, hot piping required**
Minimised energy loss due to unwanted waste heat
- **Low regeneration temperatures**
Gentle preparation of the drying air

Decreased investment and operating costs

The modular system allows for a significant reduction of investment and operating costs. Assembly and installation are very easy with this drying system:

- No compressed air and cooling water connections required at all
- No expensive drying air piping required
- System is easily adaptable to every type of processing environment

digicolor® – Your specialist for drying.



Unit for installation above the feeding zone of the processing machine

Subject to technical modification

digicolor[®]

Gesellschaft für Kunststoffmaschinen-technik mbH
Eckendorfer Straße 125a · D-33609 Bielefeld, Germany
Tel. +49 (0) 5 21/9 72 52-0 · Fax +49 (0) 5 21/9 72 52-29
www.digicolor.de · info@digicolor.de

