

PLASTICS INDUSTRY

- ✎ Greater production output
- ✎ Increased quality
- ✎ Control the relative humidity

Plastics industry

The plastics industry is very aware of the problems associated with airborne moisture, from the formation of condensation on moulds (sweating) to the absorption of moisture by the plastic granules.

Injection and blow moulding operations utilize thermoplastics which are heated to plasticity and shaped into forms via use of a mould. The majority of systems employ the use of chilled water to maintain a cold surface on the mould, resulting in a quicker forming time of the component, and thus higher production volumes. In fact, generally the colder the mould, the quicker the cycle time and greater the production outputs.

Operating at low mould temperatures creates problems with condensation (sweating) on the mould surface, especially during the summer period. This will result in unacceptable water marks on the product and corrosion on expensive moulds and guide pins, necessitating repair or even replacement.

This problem of sweating can easily be overcome by simply increasing the mould surface temperature. This however will not be the preferred choice as it will mean increasing the cycle time of the components and decreasing output. By incorporating a dehumidifier, mould temperature of 5°C or lower can be achieved, without the risk of sweating.

Greater production output

Due to low mould temperatures, quicker cycle times will be achieved, and in certain cases, reduction in excess of 30% are attainable, resulting in greater production output, irrespective of external ambient conditions.



Storing the raw-material

When storing the raw material, normally plastic granules in silos, it is important to protect these against moisture damage. Also pneumatic systems can benefit from dry air, avoiding mould and the products sticking together. With a DST dehumidifier, you can control the relative humidity in the whole production line.

Dry air can also be used when storing moulds. No need to put in time and effort in greasing the moulds -they are kept free from corrosion when the relative humidity is below 50%RH.

References

*Dehumidifiers from Seibu Giken DST AB are used by several companies, i.e.: Consol plastics
Xac-pet, Nampak, Huhmtamki Van Leer, Eurochiller*

Seibu Giken DST AB

VILKEN AVFUKTARE SKA JAG VÄLJA?

Det finns en avfuktare från Seibu Giken DST för varje fuktproblem. DST arbetar ständigt med att förbättra och utveckla produktsortimentet. Kontakta din närmaste DST-representant för vidare information. Besök oss också gärna på www.dst-sg.com

Varför avfukta?

Avfuktning är ett kostnadseffektivt sätt att lösa de ofta dyrbara problem som fukt kan orsaka, såsom rost, kondens, isbildning, mögel samt störningar i produktionscyklar. DSTs representanter har erfarenhet av avfuktningssätt för allt från lager, frysrum, saneringsbranschen och byggnader samt klimatlösningar för processindustrin.

Seibu Giken DST AB

Seibu Giken DST är idag en av världens främsta leverantörer av sorptionsavfuktare. DST startades 1985 och har idag representanter i fler än 40 länder världen över. Sedan 1993 är DST dotterbolag till Japanska Seibu Giken Co Ltd. som tillverkar rotorerna för bl.a. avfuktning, VOC-rotorer och värmeåtervinning.



Flexisorbaggregatet RF-172 G, här med utdragen rotor



Seibu Gikens huvudkontor i Fukuoka, Japan



Rostfria aggregat från Seibu Giken DST: överst fr vänster: DC-10, DR-010B, DR-030 raden under: A-30P, DC-031B, DR-40 T10

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