



# **THERMOLIFT**

Combined drying and conveying of  
plastic granulate

**ARBURG**

# DOUBLE PACK

**Efficient down to the last detail:  
Granulate drying and transport –  
made for ALLROUNDers.**

The reduction of residual moisture in the plastic granulate and the prevention of moisture deposits are basic prerequisites for excellent moulded part quality. With our THERMOLIFT, you can dry all common materials and convey them to the injection moulding machine in a combined process. This way, different plastics are ideally prepared for your moulded part production, ensuring constantly high-quality production.

**WIR SIND DA.**



## AT A GLANCE

// If you are looking for an efficient solution for drying all common plastic granulates close to the machine, we can offer you the THERMOLIFT. Its compact mobile design with a small footprint, a choice of several drying alternatives and easily integrated options make the device extremely flexible. Modularity is key! We consistently put this principle into practice not only in our ALLROUNDER injection moulding machines. \\<

### Highlights

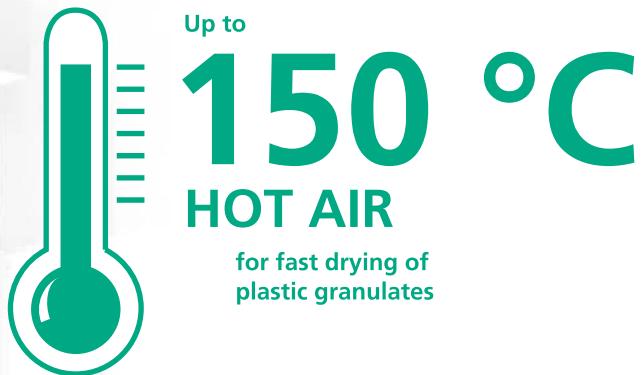
- Fast, high-quality convection drying
- Processing of hygroscopic plastics
- Versatile equipment options

## Drying and conveying

A key feature of our THERMOLIFT is its ability to combine drying and conveying in a closed material circuit. Conveying with dry air ensures that the dried material cannot absorb moisture, either during transport or in the holding section in the feed regulator.

## Adaptable design

Two ALLROUNDERS can be fed from a single THERMOLIFT. To suit you particular application, numerous features such as automatic filling of the feed hopper, fine filtering of exhaust air or increasing the drying performance with a dry air module are available.



Compact, mobile, flexible:  
Our THERMOLIFT for efficient  
granulate drying and conveying.



Full energy efficiency:  
Heat insulated material  
feed hopper made from  
stainless steel.

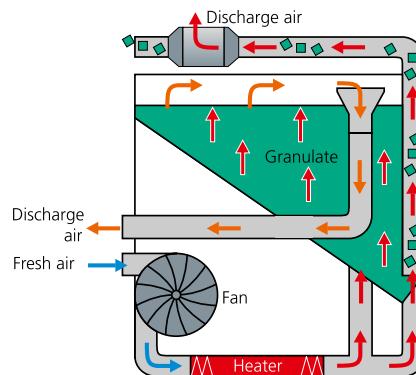
Full modularity: Equipment options  
such as for material feed.

# PREPARING MATERIAL: RIGHT ON TARGET

// Our THERMOLIFT granulate dryer and conveyor works on the principle of convection drying. Heated air circulates around the granulate and the moisture in the granulate is released. This method enables you to achieve extremely fast drying times. Depending on the material, several operating modes are available, allowing even hygroscopic plastics to be processed without any problems. Moreover, the device is easy to use and can be fully integrated in the production sequence of the machine control system. This is material preparation at its very best. \\

Fully integrated: Optional equipment such as a vacuum conveying device or manifold is also operated via the THERMOLIFT.

# DRY EXACTLY RIGHT!

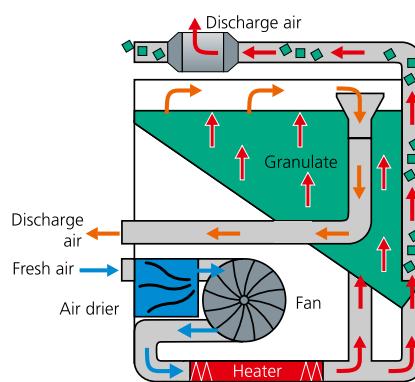
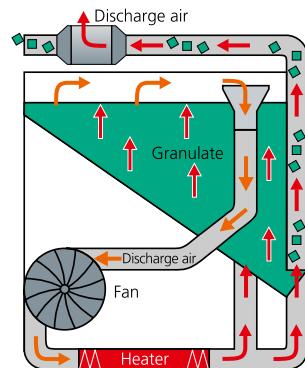


## Fresh air mode

For rapid pre-drying of damp granulate. Here, ambient air is drawn in and heated by a heating element to the programmed drying temperature.

## Recirculating air mode

Alternative for granulate that is largely dry. Here, the air is reused after the drying process. The closed air circuit ensures extremely energy-saving operation.



## dry air mode

Option for increased drying performance and energy efficiency. In this case, the ambient air that is drawn in is pre-dried by a dry air module. A dew point sensor is connected downstream of the dry air module for quality assurance purposes.

## Simple operation

Clear displays in plain text and direct entries on the touch screen. Stored reference data for drying times and temperatures of different materials. Automatic start-up/shut-down for unattended preparation of production start with no waiting time directly at start of shift: We're making it simple and efficient for you. For greater convenience, the THERMOLIFT can also be operated and monitored via the controller of our ALLROUNDERS. Its setting is then saved directly in the data record. Digital inputs and outputs enable additional features such as remote switch-on or displaying faults via an external signal unit.

## Practice-oriented details

The automatic phase position detection, the monitored sliding bar for fresh or circulating air mode, the programmable interval mode for the drying fan, the large sealing, simple cleaning and sample removal all ensure efficient and safe operation. The stainless steel material container is corrosion-resistant and insulated to keep heat loss to a minimum and to achieve uniform heating of the granulate. An air filter ensures clean exhaust air and protects the drying fan from dust particles. This is particularly useful when processing recovered or reground material, and for new material with a proportion of dust or glass fibre.

User-friendly: Operation of the THERMOLIFT is learned quickly.



Clean: Environmentally friendly air filter keeps dust out of the environment.



High performance: Dry air module with silica gel rotor pre-dries ambient air.



# DRYING AND CONVEYING: TOGETHER

// Automatically fill the THERMOLIFT, maintain the autonomy of production. Select between pressure an vacuum conveying, for a wide range of plastic granulates. No problem: We have the right expansion option for all your requirements. To ensure you always have the best production solution at your disposal. \\  


Vacuum conveying device:  
Fill the THERMOLIFT from various supply sources, such as octabins.



Container attachment: Increases filling volume by 100 litres.

Feed hopper:  
Manual in-process filling.

## Filling on demand

Additional equipment available for the THERMOLIFT includes a swivelling lid, a feed hopper and a vacuum conveying device with an alternative container attachment. The vacuum conveying device also ensures that the filling level and therefore the drying time can be kept consistently high. This results in a uniformly excellent drying result over a longer period of time. In addition, a manifold is available for conveying of two materials.

## Reliable material supply

the dried granulate is conveyed from the THERMOLIFT to the machine by air pressure from the drying fan. During this process, a defined amount of drying air continuously flows through the material, preventing it from absorbing any more moisture. With the aid of a feed regulator located above the injection unit, only the exact amount of material actually required in the machine at any given moment is fed in. Thanks to the automatic holding feature, no adjustment of conveyed quantities is necessary.

## Versatile feed options

You need surplus material above the injection unit to avoid dosing errors? The feed regulator can be equipped for this with a container. You want to feed two ALLROUNDERS from a single THERMOLIFT? Two feed controllers can also be fitted to the conveyor distributor required for this. Materials that are difficult to convey or reground material from a sprue grinder can also be transported from the THERMOLIFT using a vacuum conveyor installed by you on the injection moulding machine.

Other equipment alternatives are:

- Filter for feed regulator, with dust collection hopper for fine filtering of exhaust air
- Mounts for fixing feed regulators to the rear of the device



Perfectly adapted:  
Feed regulator with optional  
container, filter and dust collector.



Scan this code to visit our  
Media Centre: in-depth,  
captivating, entertaining.

**ARBURG GmbH + Co KG**  
Arthur-Hehl-Strasse  
72290 Lossburg  
Tel.: +49 7446 33-0  
[www.arburg.com](http://www.arburg.com)  
[contact@arburg.com](mailto:contact@arburg.com)

## WIR SIND DA.

© 2018 ARBURG GmbH + Co KG | All data and technical information have been compiled with great care. However we accept no responsibility for correctness. Individual illustrations and information may deviate from the actual delivery condition of the machine. The relevant valid operating instructions are applicable for the installation and operation of the machine.