sDRY MM / MD
FULLY MODULAR DRYING MANAGEMENT SYSTEM

swift
by motan

sDRY MM / MD

The **sDRY MM / MD** dryer series offers a fully modular drying management system. The system consists of one **sDRY MM** main module and can be flexibly combined with up to twelve **sDRY MD** drying modules. Each drying module can be operated independently and can be expanded or reduced at any time by adding further **sDRY MD** modules. The system can therefore be adapted to current production requirements by freely combining and arranging the drying modules. It offers maximum flexibility without interrupting the production process.

The series consists of one **sDRY MM** main module. This can be supplemented with up to twelve **sDRY MD** drying modules. Drying capacities from 900 to 5400 m³/h can be achieved. This drying can be combined with a wide range of sDRYBIN A drying bins from 15 to 2400 litres.

Independent modules for maximum flexibility.

Thanks to its modular design, the sDRY MM/MD dryer series can be adapted flexibly to changing production requirements. This modularity makes it possible to configure a complete drying system or several decentralised drying units.

sDRY MM 4/8/12

Main module with innovative control functions.

The sDRY MM is the main module of the drying system. Depending on the version, it can control up to 4, 8 or 12 sDRY MD drying modules and a maximum of thirty sDRYBIN A drying bins. The main module sDRY MM contains the master control for the overall coordination of the other controls of the sDRY MD drying modules and sDRYBIN A drying hoppers. It can monitor data from all modules in the system in real time and display it on a 7" touch screen colour display.

To ensure stable operation of the entire system, the main module sDRY MM is equipped with a frequency-controlled blower. This automatically balances the air volume.

sDRY MD 450

Drying module with a constant low dew point.

The sDRY MD modules are the dry air generators of the drying system each with a capacity of 450 m³/h. They can provide a continuous flow of dry air with an optimum dew point of -60°C or better for material drying.

The sDRY MD drying module is equipped as standard with a regeneration water cooler, return air cooler and air volume control.

sDRY MM / MD CONTROL

Intelligent control system with 7" full colour touch screen display.

The sDRY MM/ MD controls can monitor data and send set values in real time to all modules and drying bins in the system. Operating parameter data, reports and alarms can be viewed on the high resolution 7" full colour touch screen display.

DECENTRALISED CONTROL

Independent modules ensure continuous operation of the entire drying system.

Each module has its own control and can be networked via the sNET network. This means that each module is an independent unit that makes up the complete drying system together with the other modules.

The decentralised control architecture with independent modules ensures uninterrupted and secure operation of the entire drying system.

sNET-ENABLED
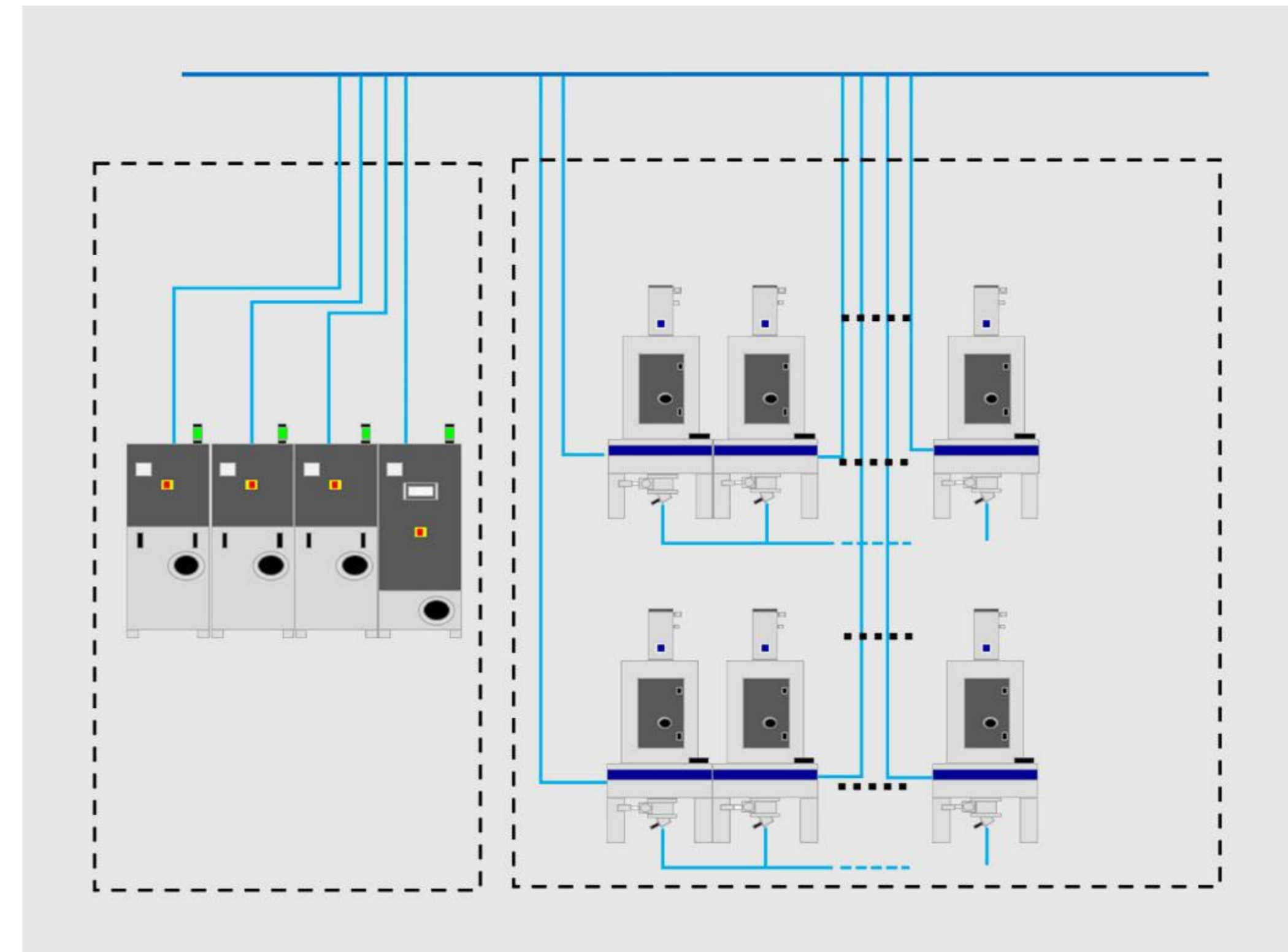
Integration in the swift system.

The sDRY MM / MD drying system has an sNET interface for communication with other swift products. This enables connection to SCADA/MES/ERP systems or third-party equipment.
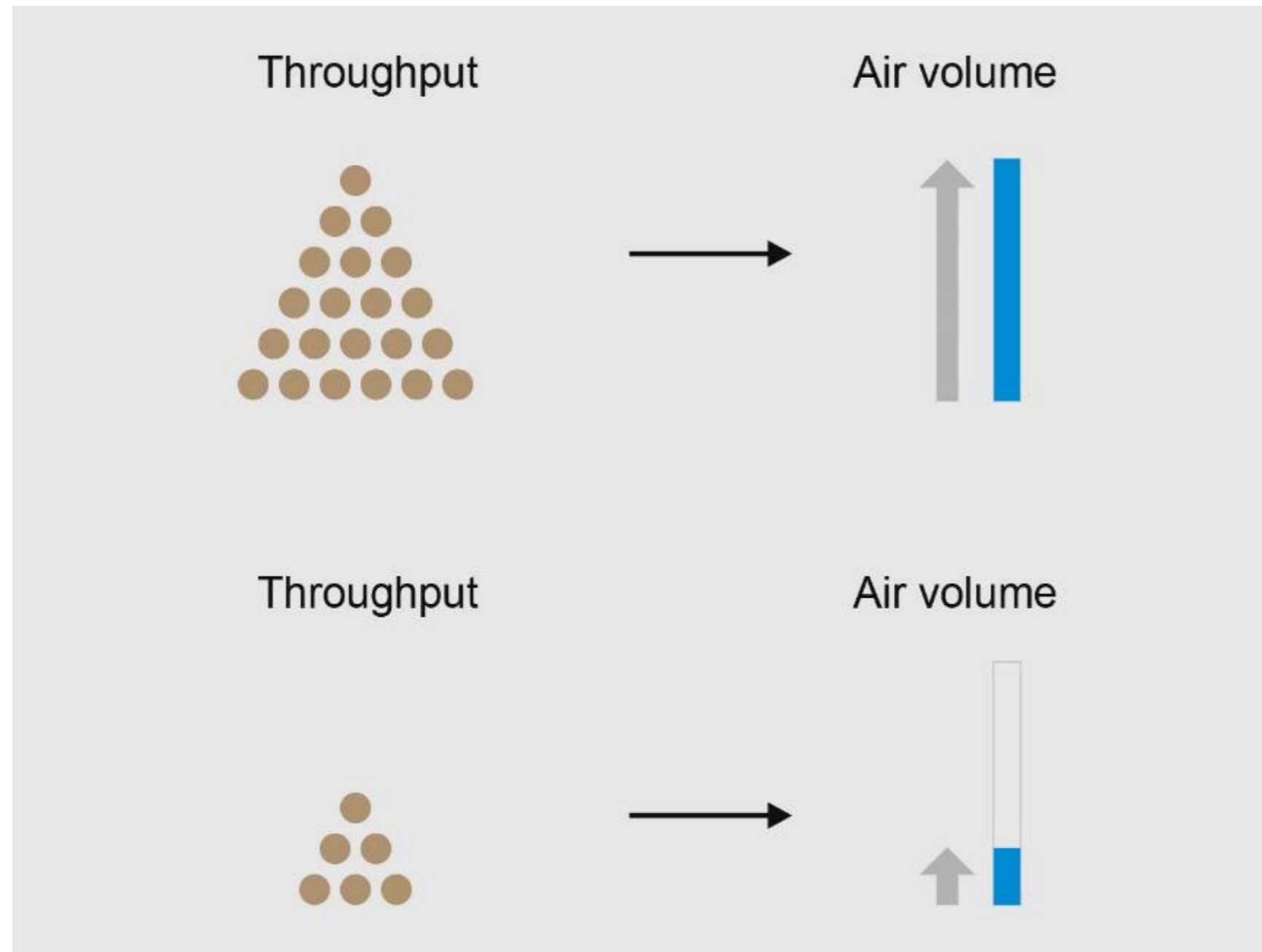
Dew point display and control

Save energy with optimised regeneration time.

With standard dew point control, the dew point or regeneration cycle time determines how long the desiccant beds remains in the drying air circuit. This ensures a consistently low dew point and improves the efficiency of the drying process.

Automatic air flow control in real-time.

The drying system is equipped with automatic air flow control (AFC) as standard. It is able to automatically regulate the amount of drying air according to the throughput to prevent over or under drying of the plastic granulates. This effectively protects the material and saves energy.

Alarm lamp with horn and 4 different operating modes.

The different colours and flashing patterns of the standard alarm lamp indicate to the user the current operating status of the dryer system.

Convenient and labour-saving maintenance of individual modules.

Each module is mounted on castors. For maintenance purposes, the individual modules can be pulled out by pulling the front handles.

DESICCANT BEDS

Guaranteed dry air quality and energy saving.

Each sDRY MD drying module is equipped with two fully insulated desiccant beds. A large amount of molecular sieve ensures constant drying air quality and low energy consumption. The long drying cycles result in infrequent regeneration.

MOLECULAR SIEVE

Reliable with a long service life.

Each time molecular sieve is regenerated it needs to be heated up and then cooled down. This causes friction and generates dust which blocks the moisture trapping pores in the molecular sieve. swift uses specially designed and prepared molecular sieve with a high mechanical and chemical stability. This reduces the frequency that the sieve needs to be exchanged and ensures optimum dry air quality.

IE3 BLOWERS

Energy saving blowers.

The sDRY MM / MD drying system uses IE3 energy efficiency class blowers. The low-resistance design enables full utilisation of the fan power and reduces energy consumption.
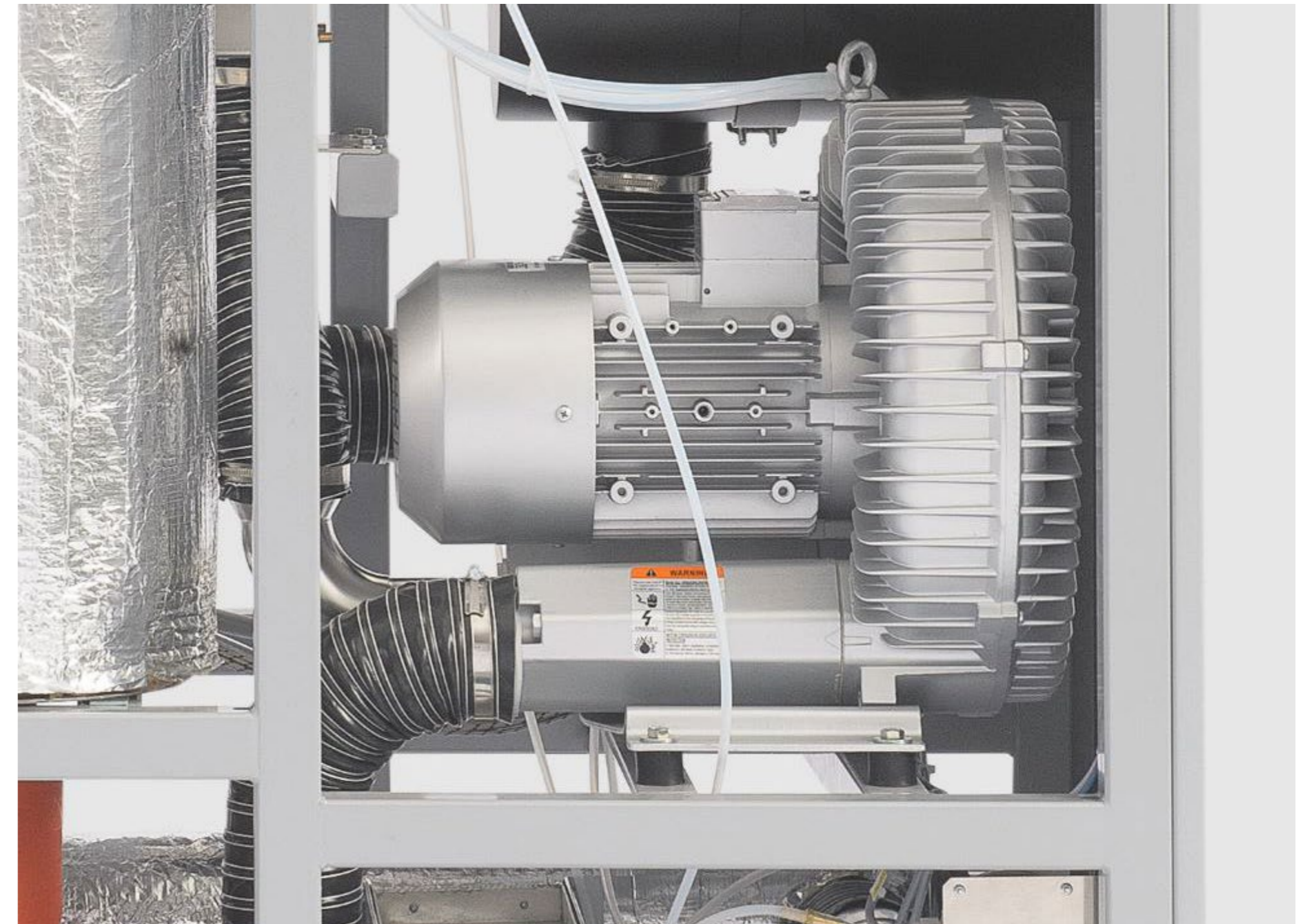
STAND-BY DRYING MODULE

Smooth operation with stand-by drying module.

The modular design allows a standby drying module to be added as a redundant module based on the existing drying system. Costs can be saved compared to conventional solutions.

OFF-PEAK REGENERATION

Free adjustment of regeneration time for cost optimisation.

The off-peak regeneration function allows you to schedule the regeneration of the desiccant beds. This allows you to take advantage of any fluctuations in the price of electricity at any time of the day to save money.