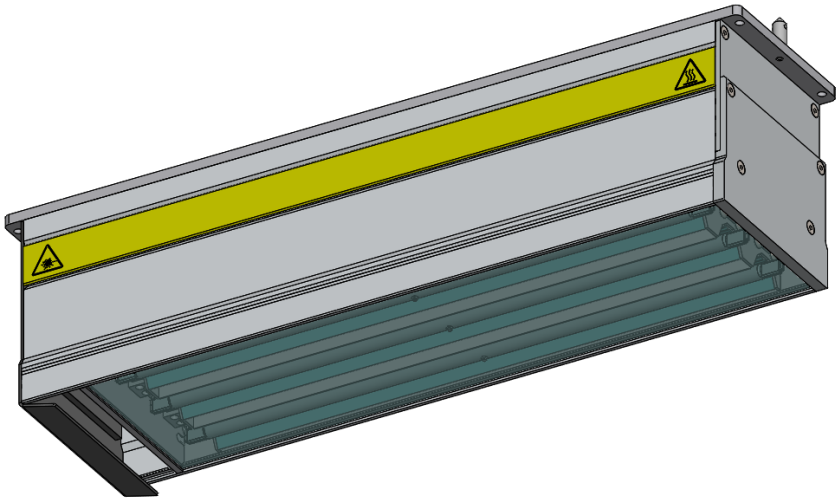
SurfaceDry SD M

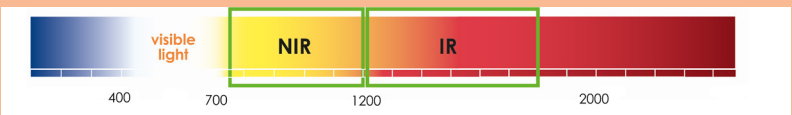
Modular NIR drying system



Areas of application:
The Surface Dry system is designed for surface drying. It demonstrates its strengths wherever high and homogeneous heat input is required over a large area. One area of application is the drying of printed products in the roll-to-roll process or as a dryer for digital single-pass printing. It is also suitable for drying primers and coatings and for powder coatings.

Product features:
- Radiation efficiency due to optimized geometry
- NIR emitter shielded by heat-resistant special glass plate
- Temperature monitoring inside the NIR module
- Full power within 0,2 s
- Integrated adjustable air nozzle that blows filteres air onto the product, supports drying
- Wavelength maximum at approx. 900 nm (at maximum power)
- If required, equipment with MIR emitter also possible (medium-wave infrared: wavelength maximum at 1300 nm)
- Spatial adaptability due to external cooling fan box
- Maximum flexibility thanks to four emitter lengths, several emitter types with different power, two module widths and the option of placing any number of modules next to each other

Why NIR (Near Infrared) or MIR (Medium wave Infrared)?



- **Deep penetration into wet film, therefore no skin formation**
- **Rapid evaporation of solvents**
- **Initiation and support of polymerization processes**
- **Fast further processing due to accelerated drying and curing**

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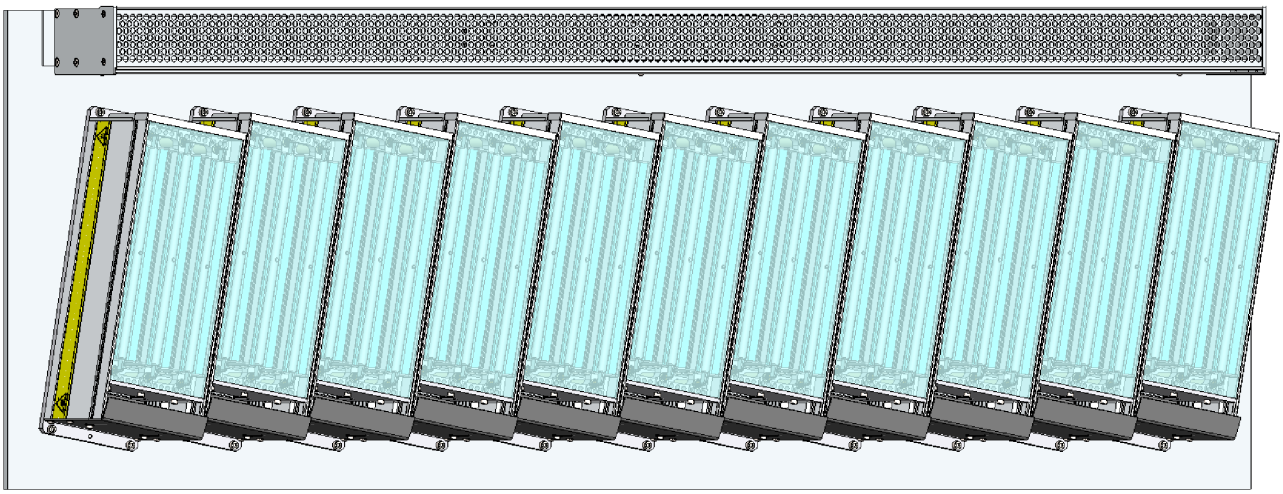
Options for SurfaceDry

Connection unit:
The ideal complement to the SurfaceDry modules is a connection unit. The connection unit is designed specifically for the customer and contains the slots for the required number of modules. This allows systems with any drying width to be created. An exhaust unit can also be integrated to remove moisture and solvent vapors from the product. For detailed information, please contact our sales department.

Several emitters types with various power possible:
For different heat input requirements, the SurfaceDry modules can be equipped with NIR emitters of various power.

Retrofit with MIR emitters possible:
For some processes, longer wavelengths are required. Therefore, medium-wave emitters (MIR, wavelength maximum approx. 1300 nm) are also available for the SurfaceDry modules.



SurfaceDry modules, mounted in a connection unit with exhaust device

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