



Downflow dryer DR1-002-2

A single compartment dryer in which conditioned air is blown downwards through the product. With the DR1-002-2, we offer you a seed dryer with all components and accessories you will need for conditioned and reproducible drying back of seeds harvested from fruit such as: tomato, gherkin, cucumber, sweet pepper, melon, pepper etc. But primed, coated or pelleted seeds can also be dried in this dryer. Because of the downward direction of the airflow, drying is only possible in seed/pellet containers with special transport cart. Optionally, naked seeds can be dried in mesh packets.

Operation

The seed dryer has been developed according to the condensation principle, which guarantees the reproducibility of the drying processes. Moisture that has been absorbed by the air from the seed will be condensed on a cooler and removed. The heat that is extracted from the condensed water and the air during this process is led back to the process air using a heat recovery block. This makes the process very energy-efficient.

A possible shortage of recovered heat can be compensated with electric heating elements. This enables quick and/or controllable drying. The dryer is equipped with 2 RPM controlled process fans to be able to control the airspeed through the product.

Controls

The dryer is equipped with a PLC controller and can be operated by means of the control terminal's touchscreen. Using this terminal, all process variables can be entered and monitored such as temperatures, humidity levels, fan speeds and durations of the different process steps. Optionally, this cabinet can be equipped with a software package for external control and data recording. Any alarms would also be shown on this terminal. There is the option to forward these alarms by means of potential free contacts to building management systems.

Specification downflow dryer DR1-002-2



External dimensions ca.	1920 x 1960 x 2195 mm (w x d x h)
Compartment	single
Aeration	downflow, conditioned
Operating range drying process	minimum 20 °C and maximum 40 °C
Minimum RH	30% at +20 °C resp. 10% at +40 °C
Max. temperature environment	32 °C
Environmental conditions	maximum 30 °C and 70% RH
Supply voltage	400 x 3 x 50
Supply power	10 kW
Dehumidifying capacity per hour	9.2 litres at +20 °C and 60% air humidity 19.1 litres at +28° C and 80% air humidity 20.6 litres at +35° C and 60% air humidity
Possible options	<ol style="list-style-type: none">1. alarm light on the front of the dryer2. Remote Service Module (remote full service provision) Internet access needs to be present (DHCP)3. double controls (reliance package) ex. computer4. tropics version, works in an environment with temperatures up to 40 °C5. pellet containers6. transport carts for pellet containers7. drying drums (40 / 80 litres)8. rotation units for drying drums
Delivery of stand-alone cabinet	<ol style="list-style-type: none">1. fully wired2. ready for operation3. with extensive documentation
Law and environment	according to applicable regulations, energy-saving

Every seed dryer is developed, built and tested in-house at SCE. The seed dryer is built according to current environmental requirements and also meets all applicable regulations.

You can contact us for further information and pricing.

Please also visit our website: www.sce.nl

