



Outside air dryer DR2-002-2

A double compartment seed dryer that allows for cost-effective drying of large quantities of seed and pelleted seeds using outside air. This dryer is perfect for dry environments. Because of the principle of unconditioned drying, it is not possible to use pesticides, as these would end up in the outside air. Naturally, the outside air can be slightly cooled or heated to compensate for variations in the outside air. This dryer can dry back up to 4 million 3-4 mm pellets in a single batch spread over 2 containers. Thanks to the fluid bed system used by this dryer, the combination with an optional built-in vibration function ensures an effective and even drying of your seeds and pellets.

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 by means of a heat recovery block. This makes the process very energy efficient.

A possible shortage of recovered heat can be compensated with electric heating elements or an optional hot water heating block. This enables quick and/or controllable drying. The dryer is equipped with 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. Optionally, this cabinet can be equipped with a software package for external control and data recording. Using the terminal, all process variables can be entered and monitored such as temperatures, humidity levels, fan speeds and durations of the different process steps. Any alarms would also be shown on this terminal. There is the option to forward these alarms using potential free contacts to building management systems.

Specification outside air dryer DR2-002-2



External dimensions ca.	4000 x 2510 x 2225 mm (w x d x h)
Compartment	double
Aeration	upflow, outside air
Operating range drying process	minimum 20 °C and maximum 35 °C
Operating environment because of drying process	from 20 °C to a maximum of 39 °C
Max. temperature environment	35 °C
Environmental conditions	maximum 30 °C and 70% RH
Supply voltage	400 x 3 x 50 V x F x Hz
Supply power	80 kW
Noise pressure	Maximum 75 dB (a) per 1,5 metres
Heating capacity	~30 kW
Capacity	Up to 115 litres per hour at a temperature of 39 °C
Possible options	<ol style="list-style-type: none">1. Remote Service Module (remote full service provision) Internet access needs to be present (DHCP)2. double controls (reliance package) ex. computer
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

