

WATER AND WEIGHING UNIT



Phenotyping is all about controlling one group of parameters to objectively quantify the variation in other parameters.

The water and weighing unit offers the user a high level of accuracy in delivering water and nutrients to plants during growth and measurement cycles based on predefined quantities. This precise control enables the user to establish and implement strict water and nutrient regimens within a single ongoing experiment, facilitating objective measurement of the impacts of varying factors such as drought stress, nutrient deficiency, and different water regimes on plant samples.

The peristaltic pump in the water and weighing unit operates in response to the scale's data. It adjusts the number of pump rotations according to the weight measured, ensuring the desired outcome is achieved. This technology enhances experimental reproducibility and data reliability in plant phenotyping research.

Water and weighing unit specifications:

General

Electrical installation	3P+N+PE 400V 50Hz
Power consumption	1,8 kW
Throughput	+/- 10 seconds
Water and weighing	Per pot

Weighing unit

Load cell	PC42
Material	Aluminium
Protection	IP67
Weighing accuracy	+/- 2 gram
Weighing load	30 kg

Watering unit

Watering method	From top
Number of channels	2
Watering accuracy	+/- 2 millimeter
Reservoir size	12 Liter
Reservoir material	PE
Drain	Yes
Level sensor	Float Switch
Drip tray	Yes
Pump unit	Peristaltic pump
Dripper height	200 mm
Max water volume at once	0,5 L

