

Appendix 2

List of plant culture cabinets in the North Campus Research Greenhouse Service Unit and equipment.

Greenhouse cabinets (as of December 2025):

Each cabinet is equipped with misting humidification, 200-litre water tanks connected to the integrated, automated irrigation and fertilization system, and compressed air for hydroponic systems. In addition, each cabin has a temperature and humidity sensor integrated into the RAM system for the most accurate control of these parameters. The LED light is dimmable. A maximum photosynthetically active photon flux density of up to 500 $\mu\text{mol}/\text{m}^2/\text{s}$ is possible.

Cabinet no.	Size (sqm)	Equipment		
		Light source	Irrigation system (optional)	GenTSV-level
26	64	LED Valoya NS 1		
27	64	LED Valoya NS 1		
28	64	LED Valoya AP673L	Pot irrigation	S1
29	32	LED Valoya AP673L	Pot irrigation	S1
30	32	LED Valoya AP673L	Pot irrigation	S1
31	32	LED Valoya NS 1	Pot irrigation	
32	32	LED Valoya NS 1	Pot irrigation	S1
33	32	/		
34	32	NDL (CMH)		
35	32	NDL (CMH)		
36	32	NDL (CMH)	Pot irrigation	S1
37	32	NDL (CMH)	Spray irrigation	S1
38	32	NDL (CMH)	Pot irrigation	
39	64	NDL (CMH)	Pot irrigation	
40	64	NDL (CMH)	Tide tables (permanently installed)	
41	64	NDL (CMH)	Pot irrigation	

CMH = Ceramic metal halide lamps (optional)

NDL = High-pressure sodium lamps

LED Valoya NS 1 = Universal light spectrum

LED Valoya AP673L = Light spectrum optimized for maize

GenTSV level: Safety level according to the "Gentechnik-Sicherheitsverordnung"