

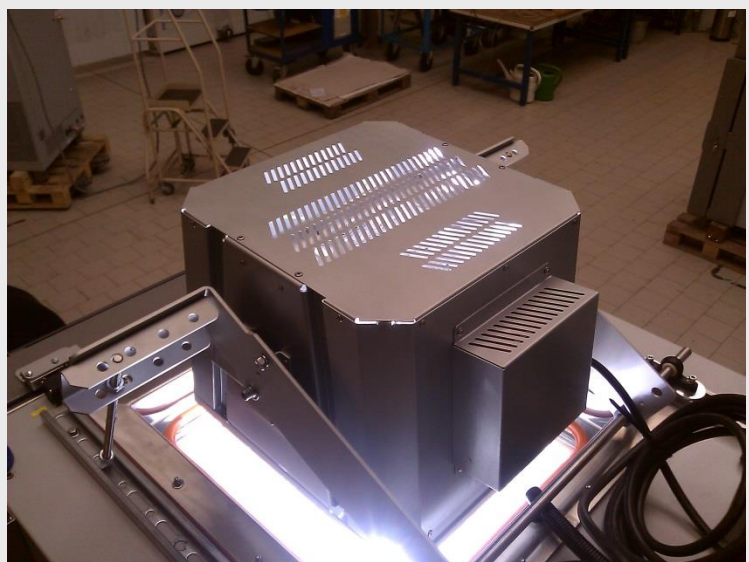


Solar-Simulation-Test Cabinet



Standard sizes with radiation unit BF-Sun from BF-Engineering (DIN 75220):

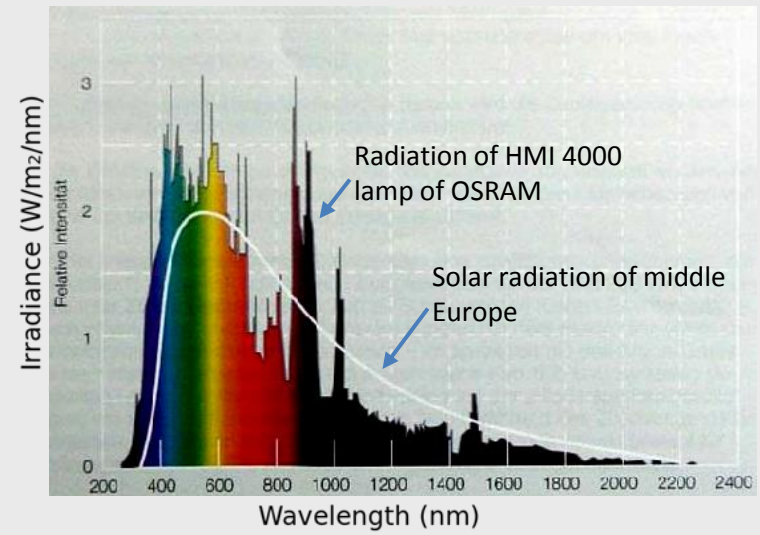
- ▶ CL -40/350
- ▶ CL -40/600
- ▶ CL -40/1000





Solar-Simulation-Test Cabinet acc. to DIN 75220

▶ According to sunlight spectrum



▶ In- and Outdoor

Climate parameter	Outdoor - Day		Indoor1 - day		Indoor2 - day		Outdoor, Indoor 1 and 2 -night	
	dry	Humid	dry	Humid	dry	humid	dry	frost
Test space temperature (°C)	+ 42	+ 42	+ 80	+ 80	+ 65	+ 65	+10	- 10
relative humidity(%)	< 30	> 60	< 30	> 40	< 30	> 50	> 55	Condensation permitted
Radiation - intensity (W/m²)	1000	1000	830	830	830	830	---	---



Technical Data Solar-Simulation-Test Cabinet

Typ	CL-40/350	CL-40/600	CL-40/1000
Temperature test without radiation:			
temperature range:	-30°C to +100°C (-40°C to +180°C with option "insulation plug" possible)		
temperature fluctuation:	≤±0,3K, temporally		
temperature change rate: acc. to IEC 60068-3-5	Heating: 2,5 K/min Cooling: 3,0 K/min	Heating: 2,5 K/min Cooling: 2,5 K/min	Heating: 2,0 K/min Cooling: 2,0 K/min
Climatic test without radiation:			
temperature range:	+10°C to +90°C		
rel. humidity	10% to 95% r. h.		
dew point range:	+5°C to +87,2°C		
temperature fluctuation:	±0,5K, temporally		
humidity fluctuation:	±1% to ±3% r. h., temporally		



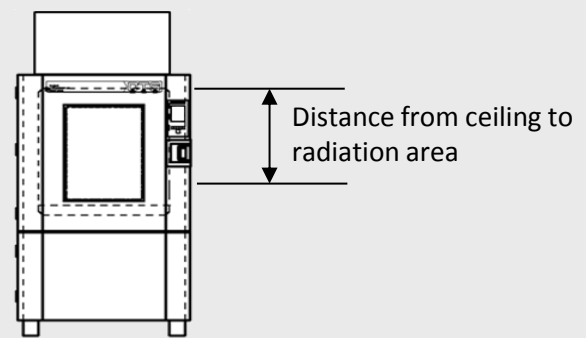
Technical Data Solar-Simulation-Test Cabinet

Typ	CL-40/350	CL-40/600	CL-40/1000
Temperature test with radiation:			
temperature range:	-20°C to +100°C		0°C to +100°C
temperature fluctuation: (deviation in time)	±1K, temporally		
Climatic test with radiation:			
temperature range:	+10°C to +80°C		
rel. humidity:	10% to 60% r. h.		
dew point range:	+5°C to +68°C		
temperature fluctuation: (deviation in time)	±0,5K, temporally		
humidity fluctuation: (deviation in time)	±1% to ±3% r. h. , temporally		



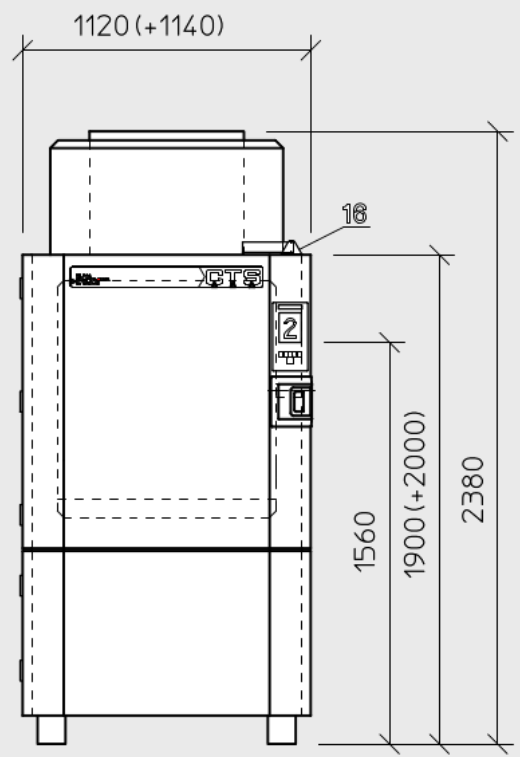
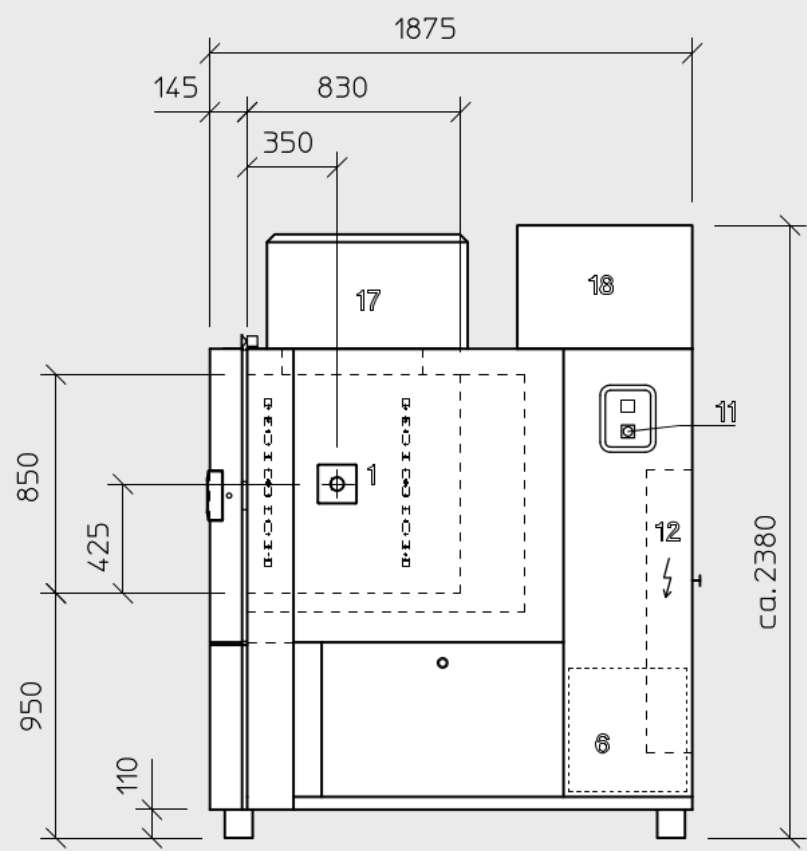
Technical Data Solar-Simulation-Test Cabinet

Typ	CL-40/350	CL-40/600	CL-40/1000
simulation:	HMI, System from BF-Engineering		
Lamp power	1200 W	2500 W	4000 W
Radiation intensity:	1000 W/m ² ± 5 % ; it can be regulated from 80% to 110%		
Radiation area:	approx. 400 x 400 mm	approx. 550 x 600mm	approx. 700 x 900mm
Distance from ceiling to radiation area:	approx. 450 mm	approx. 650 mm	approx. 650 mm
spectrum:	280 nm to 3000 nm		
Spectral lifetime:	1000 h		





Layout of CL-40/600



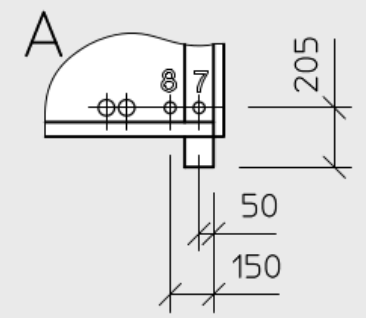
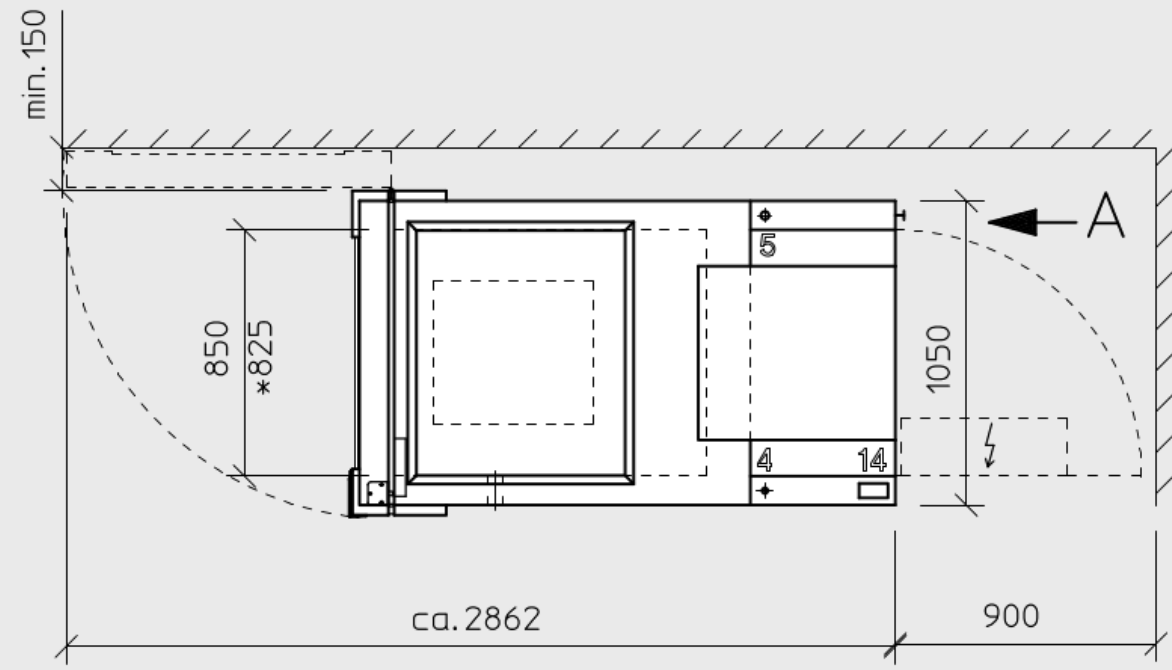
Explanation:

- 1. Entry port $\varnothing 50$ mm
- 2. Control panel
- 6. Area for outlet of cooling air, on both sides
- 11. Main switch
- 12. Control unit
- 16. Electromagnetic door lock
- 17. Radiation unit from BF-sun incl. cover
- 18. Control unit for the radiation system

* clearance width/high
+ entrance clearance



Layout of CL-40/600



Explanation:

- | | | |
|---|--|------------------------|
| 4. Electr. Connection cable, length 5 m | 8. Water-inlet demi-water R ½"i (Option) | * clearance width/high |
| 5. Pressure equalizer | 14. Cable entry for interface ports | + entrance clearance |
| 7. Drain of test room R ½" | | |



Options Solar-Simulation-Test Cabinet

Price basic unit:

- ▶ CL-40/350
- ▶ CL-40/600
- ▶ CL-40/1000

budget price

- approx. EUR 85.000,-
- approx. EUR 96.000,-
- approx. EUR 107.000,-

Options:

- ▶ Common options (e.g. autom. water replenishment)
- ▶ Pyranometer for measuring the light intensity [W/m^2]
- ▶ Black standard temperature sensor

