



## miniClima Constant Humidity Devices EBC: *Technical Data*

### Figures

Rec. max. volume of the case (per connected EBC) (1)	3m <sup>3</sup> (EBC10) / 5m <sup>3</sup> (EBC11)
Dehumidification capacity at ambient conditions of 25°C, 50%RH (1,2)	5.0g/h
Humidification capacity at ambient conditions of 25°C, 50%RH (1,2)	5.0g/h
Exemplarily achievable setpoint range at ambient conditions of 22°C, 50%RH (1,3)	30-75%RH
Theoretical (adjustable) setpoint range	15-85%RH
Permissible highest value for the relative humidity inside the case (the EBC issues a signal error if beyond)	94%RH
Permissible lowest value for the relative humidity inside the case (the EBC issues a signal error if beyond)	6%RH
Airflow at the air inlet of the case (1,4)	
-EBC10	1.25m/s
-EBC10 with stronger fan ULV+	1.60m/s
-EBC11	2.30m/s
-EBC11 with stronger fan ULV+	3.20m/s
-EBC11 with stronger fan ULV++	4.00m/s
Permissible ambient conditions for operation and storage of an EBC (5)	5-35°C, 15-80%RH, non-condensing
Permissible ambient conditions for the storage of the RH/T sensor	10-50°C, 20-60%RH, non-condensing
Tolerance (1,6)	
- at a setpoint of 30%RH	typically achievable +/-2%RH, max. +/-3%RH
- at a setpoint of 75%RH	typically achievable +/-3%RH, max. +/-5%RH
Mains connection (7)	90-264VAC, 47-440Hz
System voltage	12VDC
Power consumption	max. 65W
Weight (device without accessories, bottle, hosepipes or cables etc)	6.6kg
Noise emission (1,8)	
- free-standing, measured from 1m	48.1dB(A)
- built-in (9), measured from 1m	37.0dB(A)
Housing material and colour	coated steel sheet (1.5mm), pigeon-blue (RAL5014)

### Measures

	With 0.5l bottle	With 2.0l bottle	
	Width (mm) EBC10, EBC11		
EBC	378.50	378.50	EBC
Edge dist. (right) includ. silicone pipe & cable (left)	50.00	50.00	Edge dist. (right) includ. silicone pipe & cable (left)
<b>Total=Requ. space with bottle on the front</b>	<b>428.50</b>	<b>428.50</b>	<b>Total=Requ. space with bottle on the front</b>
Bottle with sensor holder & belt (left)	83.00	115.00	Bottle with sensor holder & belt (left)
<b>Total=Required space with bottle on the left</b>	<b>511.50</b>	<b>543.50</b>	<b>Total=Required space with bottle on the left</b>
	Height (mm) EBC10, EBC11		
EBC	133.50	133.50	EBC
Edge distance (top)	50.00	50.00	Edge distance (top)
<b>Required space</b>	<b>183.50</b>	<b>183.50</b>	<b>Total without bottle</b>
Bottle (apart; highest point)	138.00	212.00	Bottle (apart; highest point)
Space for silicone pipe (top)	5.00	5.00	Space for silicone pipe (top)
<b>Total with bottle, without requ. edge distance</b>	<b>143.00</b>	<b>217.00</b>	<b>Required space</b>
	Depth (mm) EBC10		
EBC (includ. hosepipe connectors & screws)	233.00	233.00	EBC (includ. hosepipe connectors & screws)
Space for hosepipes (back) & cables (front)	102.00	102.00	Space for hosepipes (back) & cables (front)
<b>Total=Required space with bottle on the left</b>	<b>335.00</b>	<b>335.00</b>	<b>Total=Required space with bottle on the left</b>
Add. for bottle, sensor holder & belt (front)	51.00	83.00	Add. for bottle, sensor holder & belt (front)
<b>Total=Requ. space with bottle on the front</b>	<b>386.00</b>	<b>418.00</b>	<b>Total=Requ. space with bottle on the front</b>
	Depth (mm) EBC11		
EBC (includ. hosepipe connectors & screws)	238.00	238.00	EBC (includ. hosepipe connectors & screws)
Space for hosepipes (back) & cables (front)	122.00	122.00	Space for hosepipes (back) & cables (front)
<b>Total=Required space with bottle on the left</b>	<b>360.00</b>	<b>360.00</b>	<b>Total=Required space with bottle on the left</b>
Add. for bottle, sensor holder & belt (front)	51.00	83.00	Add. for bottle, sensor holder & belt (front)
<b>Total=Requ. space with bottle on the front</b>	<b>411.00</b>	<b>443.00</b>	<b>Total=Requ. space with bottle on the front</b>

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All data refer to standard devices without optional accessories or extras (unless mentioned otherwise).

- (1) Approximately.
- (2) Condensed/evaporated water in grammes per hour.
- (3) The actual setpoint range in a given specific situation can be both bigger and smaller, as it depends on a variety of further variables - additionally to the ambient conditions (such as the kind of materials stored in the case or the quality of the case sealing etc).
- (4) At typical installations using the hosepipe lengths that are usually delivered (3m/5m) and without any other accessories that may have an impact on the airflow, like air filters FLT.
- (5) Applies to the conditions generally obligatory for operation or damage-free storage, but not to the conditions were the full capacity with respect to the achievable setpoint range is given.
- (6) The tolerance rises with the chosen setpoint.
- (7) Has to be fuse-protected and earthed.
- (8) Disregarding the noise during the pump processes (sporadic occurrences). The values were measured during the dehumidification process (increased noise emission through the work of the cooling air fan). The units remain almost noiseless when humidifying.
- (9) In the plinth of a wooden showcase with air slots, without sound insulation.