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miniClima *Manual ZV.. (external fan)*

Topic: Supplement to the Manual EBC; instructions for installing/using the optional external fan
Valid for: ZV20, ZV25, ZV32, ZV40 for use with miniClima Constant Humidity Devices EBC or with a TripleFilterBox FLT_V2.



The external fan is needed, if due to a higher air resistance the capacity of the internal circulation fan of an EBC is not high enough to sufficiently often circulate the air of the showcase through the EBC. A recommendation for a good conditioning is to circulate the whole air volume of the showcase through the EBC once an hour. Possible reasons for an increased air resistance are long hosepipes, usage of an air-filter.

1 GENERAL INFORMATION

Usually the fan ULV or ULV+ or ULV++ of an EBC10/11 will be used. The fan will be assembled in a pipe made of polypropylen and be operated by an external 12V wall power supply. The fan will be running constantly. The pipe will be equipped with 2 tube connectors to place the external fan within the hosepipes between EBC and showcase.

2 INSTALLATION

The external fan will be placed within the hosepipes between EBC and showcase. The distance to the EBC should be as high as possible to minimize the impact of the circulation fan and the external fan on each other. The flow direction of the external fan must be the same as that of the internal circulation fan. The pipe will be marked with an arrow accordingly.

3 TECHNICAL DATA

Dimensions without tube connectors:: d (side faces)= 128mm, l=132mm

3.1 Measurement of the Airstream

Measuring setup:

The external fan is connected to a TripleFilterBox FLT by a hosepipe with a length of 1m, on the other end of the FLT another hosepipe of 1m gets connected. The airstream gets measured at this open end.

ZV-Type	**FLT-Type**	**ULV-Type**	**m/s**	**m^3/h**
ZV25	FLT25_V2	ULV (EBC10/11)	1	1,5
ZV25	FLT25_V2	ULV+ (EBC10/11)	1,5	2,3