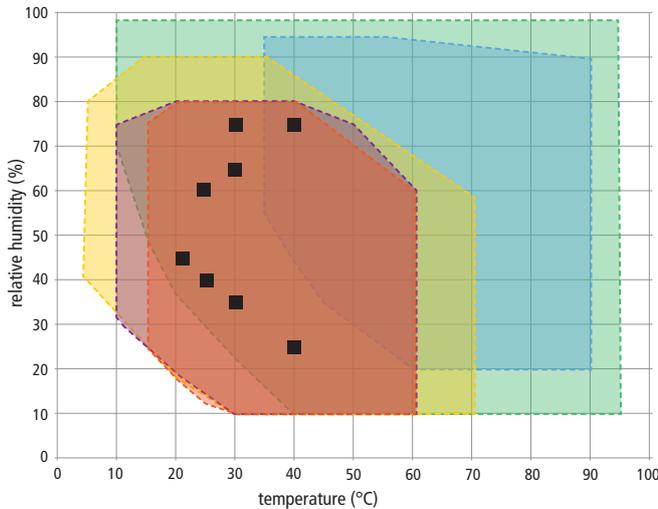




- 1 Definition of the application (refer to page 2)
- 2 Combination of temperature and humidity



Explanation of diagram:

Within the respective temperature-humidity range, condensation-free permanent operation is possible. To which extent condensation may occur in the threshold range depends on the humidity content of the chamber load and the ambient conditions.

■ Climate testing points according to ICH guidelines

- ICHeco/ICH
- HPP110-HPP1060
- HPP1400/2200
- HCP
- CTC

Customer-required temperature-humidity combination:

No.	°C	% rh
1		
2		
3		
4		
5		

The customer-required temperature-humidity combinations apply most likely to the working range of

- HPP
- HCP
- CTC
- ICHeco/ICH

Customer-required chamber volumes in litres:

This corresponds to:

- HPP
- HCP
- CTC
- ICHeco/ICH

Chamber load and humidity content for specific customer application:

Notes:

3 Model selection

Model size in litres (= dm ³)	ICHeco/ICH	HPP	HCP	CTC	
56			HCP50		
107			HCP105		
108	ICH110	HPP110			
156			HCP150		
241			HCP240		
256	ICH260eco/ ICH260	HPP260		CTC256	
384		HPP400			
749	ICH750eco/ ICH750	HPP750			
1060		HPP1060			
1360			HPP1400		
2140			HPP2200		
Temp. with hum.	+10 to +60 °C	5 ² to +70 °C	15 ³ to +60 °C	7 ¹ to +90 °C	+10 to +95 °C
Temp. w/o hum.	-10 to +60 °C	0 ² to +70 °C	15 ³ to +60 °C	7 ¹ to +90 °C	-42 to +190 °C
Humidity range	10 to 80 % rh	10 to 90 % rh	10 to 80 % rh	20 to 95 % rh	10 to 98 % rh
Ambient conditions	+19 to +25 °C, max. 50 % rh according to Memmert works standard				

¹ above ambient temperature | ² at least 20 °C below ambient temperature | ³ at least 10 °C below ambient temperature

4 Other requirements, e. g. standards

5 Important notes concerning working ranges

If the temperature-humidity values exceed the specific limits (working range), the superheated steam introduced will immediately condense at the coldest point in the appliance, due to the dew point.

If the temperature-humidity values fall below the specific limits (working range), the effective range is heavily dependent on the humidity content of the chamber load.

The higher the humidity content of the chamber load, the more steam is generated inside the chamber. This may influence the maintenance of the constant humidity. If you need constant stable operation at the edges or the chamber load is very humid, we recommend dehumidifying with compressed air. We also have other technical solutions for special needs that guarantee stable operation. Send us your inquiry!

To support you in choosing the right appliance, the Memmert TechLab MPTC is always available for tests under realistic conditions. Your customer service representative will gladly establish contact.

