

Data sheet

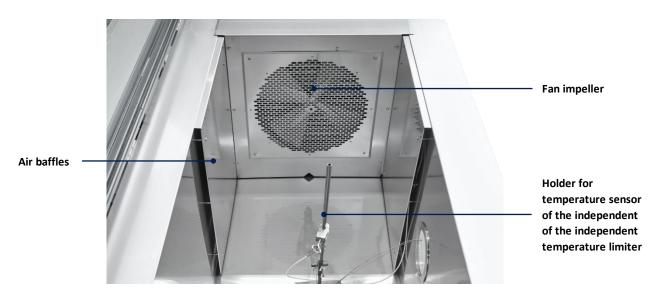
Temperature test chamber TempEvent WLM



STRUCTURE | TempEvent WLM

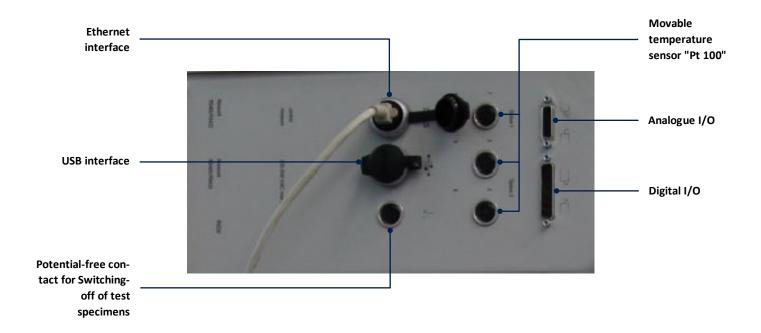


Front/ side view

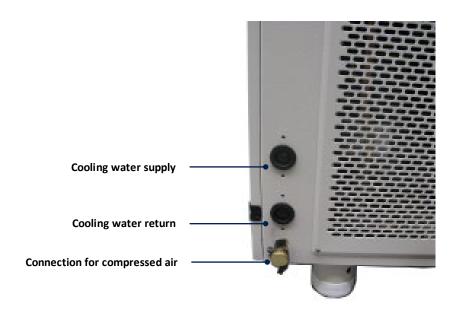


Test space view

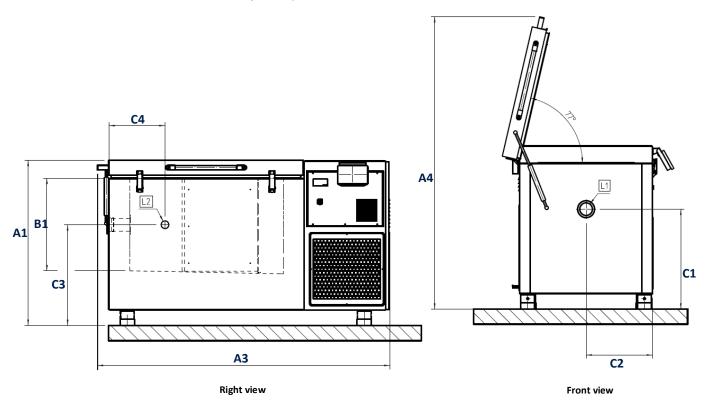
STRUCTURE | Master switch panel

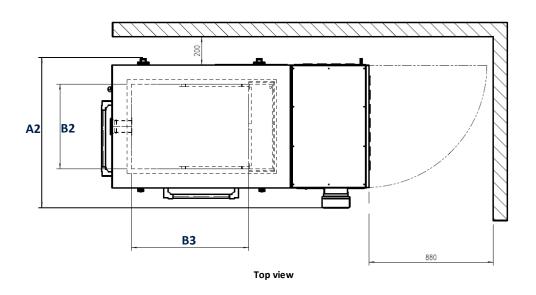


STRUCTURE | Supply and return



INSTALLATION DRAWINGS | TempEvent WLM





		A1	A2	А3	A4	A5	B1	B2	В3	В4	C1	C2	C3	C4
		Test chamber				Test space			Access ports					
		Dimensions in mm												
TempEvent	40	1900	1100	990	549,5	870	830	600	560	80	653	435	653	365
WLM 300	70	1900												
TempEvent	40	2402	1100 990	000	549,5	870	1330	600	560	80	653	435	653	365
WLM 450	70	2402	1100	390										

TECHNICAL DATA | TempEvent WLM

			WLM 300/40	WLM 300/70	WLM 450/40	WLM 450/70			
DIMENSIONS, LOAD, WEI	SHT								
	Height	mm	1100						
External dimensions ¹	Width	mm	19	000	2400				
	Depth	mm	900						
	Height	mm							
Test chamber dimensions	Width	mm	8.	30	1330				
	Depth	mm	560						
Test space volume		ı	2	79	4	447			
Belastung des Prüfraumbodens²		kg	2:	50	400				
Belastung des Prüfraumbodens³		kg	5	0	50				
Rear wall distance ⁴		mm	200						
Wall distance lateral ⁴			880						
Weight		kg	380 430		450	500			
PERFORMANCE DATA									
Maximum temperature		°C	+80						
Minimum temperature ⁵		°C	-40	-65	-40	-65			
Temperature change rate ⁶ , Cooling		K/min	2,0						
Temperature change rate ⁶ , Heating			2,0						
Temperature deviation, in time ⁷			±0.3 bis ±1.0						
Heat compensation, max.8			1000	1500	1000	1500			
Factory calibration ⁹		°C	-25 / +80	-40 / +80	-25 / +80	-40 / +80			
CONSUMPTION AND CON	NECTION DATA								
Voltage rating ¹⁰			3/N/PE AC 400 V ± 10% 50 Hz						
Power rating, max. ¹¹			3,0	4,0	3,0	4,0			
Current rating ¹²			9,0	12,0	9,0	12,0			
Fuse protection ¹³		A gG	16						
Plug		-	CEE 16A						
Connection cable		m	3,5						
Sound pressure level ¹⁴			68,0						
Heat dissipation to the installation room max. ¹⁵			7,0	10,0	7,0	10,0			

¹Overall dimensions in set-up state. Deviating installation dimensions, components can be dismantled for installation (service).

All stated performance data refer to +25 °C ambient temperature, 400 V/50 Hz nominal voltage, without additional equipment.

 ${\bf Subject\ to\ technical\ modifications!}$

² max. load as distributed load.

³ max. load as point load.

⁴ for service

 $^{^{5}}$ Temperatures > +5 °C can be run in continuous operation, temperatures < +5 °C can be run intermittently.

 $^{^{\}rm 6}$ according to IEC 60068-3-5

⁷ in the centre of effective space in steady state.

 $^{^{8}\,\}text{at}$ -20 °C for temperature tests.

⁹ the factory calibration of the temperature and humidity values is carried out in the centre of the test space.

 $^{^{10}}$ the system can also be operated on 3/N/PE AC 380 V \pm 10 % 50 Hz. This reduces the heating rate by 10%

 $^{^{11}}$ the specified nominal power rating describes the maximum power consumption when the unit is operating at full capacity.

¹² Neutral conductor loaded.

¹³ on-site.

¹⁴ measured at a distance of 1 m in front of the unit and at a height of 1.6 m for free-field measurement according to EN ISO 11201:2010.

 $^{^{\}rm 15}\, {\rm for}\, {\rm air}\text{-cooled}$ version.

GRUNDAUSSTATTUNG

EXTE	RIOR							
	Casing	Material	Galvanised sheet steel					
		Paint	Powder coating colour: RAL 9002, grey-white					
	Test space hood		lockable, rear stop, with weight compensation via gas spring, self-locking in open position, large opening angle for loading from above. Stationary, adjustable feet low-noise chiller with gradual power adjustment thanks to S!MPAC®					
	Installation							
	Chiller unit							
	Cooling		Air cooling (optional water cooling)					
	Refrigerant		R449A (main cooling)					
	Kerrigerant		R469A (deep cooling)					
	Condensate drain		back pressure-free, G $\mbox{\%}$ ", external thread 12 mm hose connection					
INTE	RIOR							
	Test space ¹	Material	Stainless steel 1.4301; steam-tight welded					
	Access ports		1 piece; made of stainless steel; inner dimension 2 : Ø 80 mm					
	Silicone plug		1 piece per stainless steel lead-through left (ø 80 mm)					
сом	MUNICATION							
	Interfaces	1000 megabit						
		USB interface ³ 4 potential-free outputs for actuating on-site equipment						
	Switched outputs	Max. load 24 V-DC; 0.5 A.						
	Switched inputs	4 digital inputs for feedback from on-site equipment.						
	Switched inputs	Max. load 24 V-DC; approx. 30 mA						
REGU	LATION & CONTROL							
OK	S!MPAC®	ontrol system with I/O unit and WEB Season® control software, can via integration into a network.						
		Operating/programming and monitoring unit with web panel 25.4 cm, 10"						
	Temperature measuring	Temperature control se	nsors in the hot and cold chamber					
CAEE	sensor	Platinum temperature measuring sensor Pt 100						
SAFE	TY EQUIPMENT							
	Independent temperature limiter tmin/tmax for hot and cold chamber thermal safety class 2 according to EN 60519-2, 2006 Individually adjustable fixed values with temperature sensor in the test space Shutdown of the test chamber and error message if the temperature is t low							
	Switching-off of test specimens							

¹ Due to the use of annealed silicone parts, the test space is low in emissions. If the test space is to be emission-free, this will require technical clarification, which can be offered on request.

Subject to technical modifications!

 $^{^2}$ Production-related tolerances of up to ±3 mm are possible.

³ USB stick is not included in the scope of delivery. Before recording data, make sure that the USB storage medium is working.

OPTIONEN

INSTALLATION

Mobile version

Mobile base with swivel castors and lockable fixed castors. The unit height increases by approx. 180 mm.



Window in the hood with interior illumination

Window in the chamber hood multi-insulated with test space illumination Light switch in the web panel.

Note: Visible surface (355 mm x 355 mm)

ACCESS PORTS

Access ports

Stainless steel access port complete with sealing plug. The access port can be located in the left-hand panel (L1) or in the front panel (L2).

Access ports:

- Ø 50 mm
- Ø 80 mm
- Ø 125 mm

TEST SPECIMEN SUPPORTS

Insertion shelf, reinforced

Modification to the test space tank and housing. The mass of the test specimen is transferred from the test space to the frame of the unit via special stiffeners.

max. load:

- 400 kg (300 l chamber)
- 640 kg (450 l chamber)

TEST SPACE INSTALLATIONS

Extended temperature range

The TempEvent WLM chamber can be extended by several temperature ranges.

- down to -70 °C with R23 (air cooling)
- down to -80 °C with R23 (water cooling)
- up to +180 °C

Note: To ensure that refrigerant, gaskets, oil and filter dryers are replaced annually, we strongly recommend concluding a maintenance contract with our service department.

DEHUMIDIFICATION

Compressed air dryer unregulated for dew points down to -30 $^{\circ}\text{C}$

To avoid condensation on the test material and ice formation on the evaporator, dried compressed air is fed into the test space. The compressed air dryer is operated without control, the air humidity is not controlled. Switching on and off is done via a digital switching channel. The unit is self-regenerating.

A higher sound pressure level of approx. 5 dB(A) is to be expected when the dryer is in operation.

Note: Not possible in combination with Option GN2/Compressed air connection.



GN₂/ Compressed air connection

For operation with a customer-supplied compressed air dryer or for feeding an inert gas into the test space..



SENSORS

Temperature measurement on the test specimen

Movable temperature sensor Pt 100 with flexible cable for temperature measurement at any point in the test space or on the test specimen.



SPECIAL VOLTAGE

Special voltage on request

Various special voltages are available.



CONTROL

Analog measuring card 4 PT100 inputs and 5 outputs (setpoints and actual values)

For processing and output of analog measuring signals, 5 outputs 0 to 10 V and 4 inputs for Pt 100 are available. The measuring value card enables the output of 5 analog signals to a recorder as well as the connection of 4 free measuring sensors.



Automatic fan switch-off

The fan switch-off is activated / deactivated via a contact switch. When the lid is opened, the fan is automatically switched off, i.e. the fan is not in operation when the lid is open.

SAFETY EQUIPMENT

Fault message to potential-free switching contact

 $\boldsymbol{\mathsf{A}}$ dry contact is actuated if a fault occurs in the test chamber.

COOLING

Electronic cooling water flow regulator

Use of an electronically controlled valve allows adaptation to different supply temperature and pressure differences within certain limits.

Water cooling

A water-cooled unit is installed instead of the air-cooled refrigeration unit. A cooling water regulator ensures minimum water consumption. Down to -40 $^{\circ}\text{C}$ and -70 $^{\circ}\text{C}$ possible.

Insulation of the water supply pipe for water supply temperature < +12 $^{\circ}\text{C}$

Pipes carrying cooling water in the test chamber are also insulated to prevent condensation.



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