

# DUST CHAMBER SK XL 200/200/200 260/360/200 300/420/200





# **FULFILLED STANDARDS AND REGULATIONS -SK SERIES**

The iTS dust chambers from the SK series enable standard-compliant testing of electrical equipment *inside an enclosure* against the ingress of dust. The following standards and specifications for dust testing are met.

Standards and regulations	Included	Optional	Option
IEC 60529:1989 + A1:1999 + A2:2013	х		
ISO 20653	х		
EN 60068-2-68 - test La2	x		
LV 124	x		
BMW GS 95003-4	х		

# STANDARD SCOPE OF DELIVERY - SK SERIES

The SK XL dust chamber is a self-contained system and is fixed in position in the test room. After connecting the system, reproducible tests are carried out repeatedly in the SK dust chambers using standardised test dusts.

SK - Serie	SK SL 200/200/200	SK XL 260/360/200	SK XL 300/420/200
Internal test chamber W x D x H [mm]	2000 x 2000 x 2000	2600 x 3600 x 2000	3000 x 4200 x 2000
Door cut-out W x H [mm]	1900 x 1900	2400 x 1900	2800 x 1900
Number of doors	2	2	2
Size viewing window W x H [mm]	2 windows: each 710 x 680	2 windows: each 710 x 680	2 windows: each 710 x 680
External test chamber W x D x H [mm]	3000 x 2200 x 2500 (with pressure relief: approx. 450mm higher)	3800 x 3700 x 2500 (with pressure relief: approx. 450mm higher)	4200 x 4300 x 2500 (with pressure relief: approx. 450mm higher)
Weight [kg]	2500	3000	3500
Number of dust blowers	4	6	8
Number of vacuum devices	1	1	1
Test chamber lighting	Yes / LED	Yes / LED	Yes / LED





# STANDARD SCOPE OF DELIVERY - SK SERIES

SK - Serie	SK SL 200/200/200	SK XL 260/360/200	SK XL 300/420/200
Cable entry port [number/ø mm]	After agreement	After agreement	After agreement
Load capacity test grid [kg]	Max.1500 (weight distribution: 500 kg/m²)	Max.1500 (weight distribution: 500 kg/m²)	Max.1500 (weight distribution: 500 kg/m²)
Position of control panel	left	left	left

#### Test chamber

- The test chamber is made entirely of stainless steel (1.4301). The design of the chamber has been optimised to prevent dust from settling.
- The DUTs are placed on the grating. These can be loaded up to a maximum of 500 kg/m<sup>2</sup>. The gratings are installed above the sweeping floor.
- A pedestrian-controlled forklift truck can be used to insert DUTs. The chamber can be driven under in this area.







# **GENERAL REQUIREMENTS ON SITE - SK SERIES**

Climatic conditions	SK XL
Ambient temperature [°C]	10 - 30
Relative humidity max. [%] - non condensing	70

Electrical power supply	SK XL
Power supply	3 x 400 Volt /50Hz N/PE
Power consumption up to [kW]	16
Installed load max. [A] 32	
Electrical connection via	CEE 32A plug
Ethernet (Optional)	RJ 45 socket

 Note: If connected via a CEE socket outlet, this must be protected by a separate residual current device (RCD) of TYPE B (AC/DC sensitive).

Compressed air supply	SK XL	
Compressed air [bar]	3-6	
Compressed air quality	ISO 8573-1:2010 [3:3:4]	
Compressed air connection	Via quick-release coupling NW 7,2	

• Note: The adapter for the connection is included in the scope of delivery.

The media connections of the SK XL are located on the back of the chamber.



# **OVERVIEW: OPTIONS - SK SERIES**

Option number	Option	Checkbox
SK.OP-030 (11834)	DAkkS calibration of the vacuum sensor and flow meter	
SK.OP-131 (11848)	Factory calibration of the vacuum and volumetric flow sensors	
SK.OP-040 (11835)	Additional Flow Meter (0- 60l/h)	
SK.OP-041 (11836)	DAkkS calibration of the secondary flow meter (0-60 l/h)	
SK.OP-141 (11849)	Factory calibration of the second flow meter (0-60 l/h)	
SK.OP-045 (12279)	Discount for chamber without low pressure unit	
SK-OP.711 (14527)	Pressure relief flap DN 300	
SK-OP.712 (14555)	Video camera for monitoring the DUT	
SK-OP.713 (14523)	Bushing 1" for HDWM system	
SK-OP.714 (14525)	Door contact switch with guard locking	
SK-OP.715 (14529)	Purge air fan	
SK.OP-200 (12289)	Data recording incl. ITS companion App - Basic	
SK.OP-210 (12290)	Ethernet interface for data recording incl. iTS Companion App - Pro	
SK.OP-212 (14583)	iTS Companion App – Pro Plus	
SK.OP-220 (12291)	Programmable digital channel (1st channel)	
SK.OP-224 (14545)	Additional programmable digital channel (2/3/4. channel)	
SK.OP-225 (14543)	Emergency stop switch-off of the dust chamber from external	
SK.OP-226 (14544)	Dust chamber safety signal for on-site control centre	

The individual options are described below.



# **OVERVIEW: ACCESSORIES - SK SERIES**

Accessory number	Accessory	Amount [kg]	Checkbox
SK.ZB-020 (11853)	Talcum powder according to DIN EN 60529		
SK.ZB-030 (11854)	Arizona dust A2 according to ISO 12103-1		
SK.ZB-035 (14538)	Arizona dust A2 quartz-free according to ISO 12103-1		
SK.ZB-040 (11855)	China dust according to FLTM BZ106-01		
SK.ZB-080 (11859)	Arizona dust according to SAE J 726		
SK.ZB-090 (11860)	Test dust according to ECE R 16		
SK.ZB-095 (12318)	Test dust according to DIN EN 40050-9		
SK.ZB-070 (11858)	Starter kit for dust chamber		
SK.ZB-060 (11857)	Test leak for controlling low pressure equipment		

The accessories are described below.



# **NOTE**

We reserve the right to make design and technical changes in the interests of further technical development. This applies to the entire technical description.

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