

Protection Tests (IP-Code)

Spray and Splash Water Test Units Series SWT

Reproducible tests to check protection against water for application in

- Research
- Development
- Production
- Quality control

Special Features

- compact design, ready to be plugged-in
- two sizes available
- designed to observe important test standards
- automatic test run
- low water consumption by circulation unit

Construction Features

- test room made of corrosion-resistant steel plate
- test chamber door made of plexiglass is hinged on the left
- specimen support, adjustable in height
- pneumatical drive of the swivel tube
- adjustable swivel angle
- replaceable swivel tubes
- nozzle fittings can be swivelled
- exchangeable nozzle fittings
- adjustable water volume flow
- measuring of water volume flow



Leading by advanced technology



Standard Design

- stainless steel test chamber with plexiglass door and wipers
- automatic test run with switch clock to adjust the duration
- connection to water supply

Options

- different swivelling tubes
- circulation device
- rotation table adjustable in height
- modification for further protection codes
- modification for similar tests according to DIN, MIL, VTL, IEC, BSI, JIS

Technical Data		Model	SWT 200/SWT 400		SWT 600/SWT 800	
Testing time			adjustable from 3 sec to 30 hrs			
Specimen support			adjustable in height			
Swivel velocity of tubes		degr/sec	60	60	60	60
Swivel angle adjustable		degree	0 to approx. $\pm 180^\circ$			
Test chamber dimensions	height	mm approx.	1.015	1.015	1.810	1.810
	width	mm approx.	1.000	1.000	1.800	1.800
	depth	mm approx.	1.000	1.000	1.800	1.800
Outside dimensions	height	mm approx.	1.950	1.950	2.300	2.300
	width	mm approx.	1.400	1.400	2.200	2.200
	depth	mm approx.	1.100	1.100	1.900	1.900
Door opening	height	mm approx.	750	750	950	950
	width	mm approx.	650	650	950	950
Weight (without water stock)		kg approx.	350	400	550	600
Connected load (with circulation pump)		kVA approx.	3	3	3	3
Power supply			400 V/3 Ph + N + PE/50 Hz			
Option: ratio of swivel tube diameter of rotation table/speed		mm/mm ⁻¹	400/300/4		800/500/4	

Models SWT 200 to 800 are suitable for protection codes IPX3 and IPX4.

Testing accessories and main test specifications

for testing the protection against water acc. to DIN VDE 0470 Part 1 (EN 60529) 1)

Protection grade 2nd mark	Testing accessories	water volume flow	test duration
0	no test required	-	-
1	dripping unit unit on a rotation table	1 ^{+0.5} / ₀ mm/min	10 min
2	dripping unit housing in 4 stable, 15° inclined positions	3 ^{+0.5} / ₀ mm/min	2.5 min for every incline
3	swivelling tube	0.07 l/min $\pm 5\%$ per opening, with the number of openings	10 min
4	spraying $\pm 60^\circ$ from the vertical max. distance 200 mm or spray nozzle spraying $\pm 60^\circ$ from the vertical as figure 3	10 l/min $\pm 5\%$	1 min/m ² , mini 5 min
	spraying $\pm 180^\circ$ from the vertical	as figure 3	as figure 3
5	jet nozzle nozzle 6.3 mm \emptyset distance 2.5 to 3 m	12.5 l/min $\pm 5\%$	1 min/m ² , mini 3 min
6	jet nozzle nozzle 12.5 mm \emptyset distance 2.5 to 3 m	100 l/min $\pm 5\%$	1 min/m ² , mini 3 min
7	immersion basin water level above the housing: 0.15 from upper border, 1 m from lower border	-	30 min
8	immersion basin = water level: as agreed	-	as agreed

1) replacement for
DIN 54 470 part 1/...
VDE 0470 part 1/12.84
DIN 40 050/07.80
DIN 40 052/07.80
DIN 40 053 part 1/07.80
DIN 40 053 part 2/07.80
DIN 40 053 part 3/07.80
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We reserve the right to make
any technical alterations.

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