





TEST REPORT

Report No. : SGS-R18-2573-EN00
Order No. : TON-R18-3505
Applicant : WISE Control Inc.
Address : 2022 Deogyong-dearo, Giheung-gu, Yongin-si,
Gyeonggi-do, Korea (17097)
Product : Cool-down and leak detector
Model No. : R190(RL Series)
Date of Test : December 4, 2018 ~ December 16, 2018
Standard : IEC 60529: 2013
Degrees of protection provided by enclosures (IP66)
Test Result : Refer to page 9
Use of Report : For Quality Control

This is certified that the above mentioned products have been tested for the sample provided by client.

Affirmation	Tested by Name : Jeong, Sang-jin 	Technical Manager Name : Koo, Hyung-kun 
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December 20, 2018

SGS Korea Co., Ltd. Dongtan Laboratory



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TQF-510-001_ver6



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1. Overview

As requested by the client, this test was conducted on test sample according to the test specification presented by the client.

2. Product

2.1 Description

- | | |
|------------------|-------------------------------|
| 1) Applicant | : WISE Control Inc. |
| 2) Manufacturer | : WISE Control Inc. |
| 3) Product | : Cool-down and leak detector |
| 4) Model | : R190(RL Series) |
| 5) S.N | : - |
| 6) No. of sample | : 1 EA |

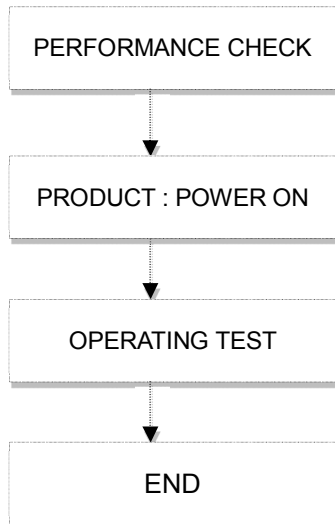
2.2 Photograph



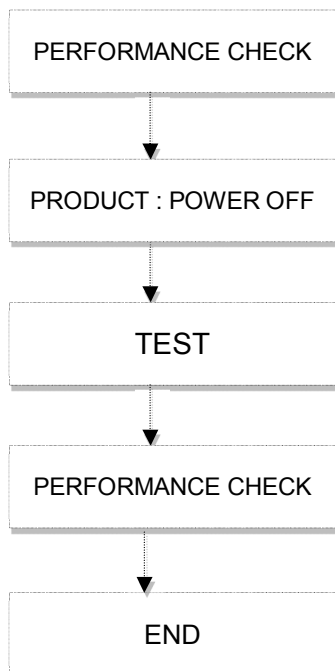


3. Test process

3.1 Operating Test



3.2 Non-operating Test



4. Test condition & Test result



4.1 IPX6

Applicant	WISE Control Inc.	Dept. in charge	Reliability Test Team
Product	Cool-down and leak detector	Tester	Jeong, Sang-jin (+82-31-240-6651)
Model	R190(RL Series)	Date	December 4, 2018.
Serial No.	-		
Standard	IEC 60529 : 2013 Degrees of protection provided by enclosures	Page	2

(1) Test condition

- 1) IP code : IPX6
- 2) Delivery rate : 100 L/min \pm 5 %
- 3) Displacement : From the nozzle to sample's surface (2.5 ~ 3) m
- 4) Test time : Total 3 min (30 sec per each side)
- 5) Test point : Total 6 point (Refer to Test photograph)
- 6) Status of product : ① Unpacked product ② Non-operation
- 7) Sample quantity : 1 EA

(2) List of used equipment

Description	Manufacturer & Model	Serial Number	The due date of next Calibration	Calibration Laboratory
Turbine Flowmeter	Blancett 110-875	082905362	March 26, 2019.	SICT
Stop Watch	KS-201	0 704771	May 28, 2020	SICT
Tape measure	-	816772	August 21, 2020	SICT

(3) Test result

Check item	Test result
- . Confirmation of water resistance	No water penetration was found. (Refer to page 9)

(4) Test photograph





4.2 IP6X

Applicant	WISE Control Inc.	Dept. in charge	Reliability Test Team
Product	Cool-down and leak detector	Tester	Jeong, Sang-jin (+82-31-240-6651)
Model	R190(RL Series)	Date	December 15, 2018. ~ December 16, 2018.
Serial No.	-		
Standard	IEC 60529 : 2013 Degrees of protection provided by enclosures	Page	2

(1) Test condition

- 1) IP code : IP6X
- 2) Test time : 8 h
- 3) Decompression : Maximum depression of 2 kPa (20 mbar)
- 4) Status of product : ① Unpacked product ② Non-operation
- 5) Check point : After the test
- 6) Test location : CTK (113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do)
- 7) Sample quantity : 1 EA

(2) List of used equipment

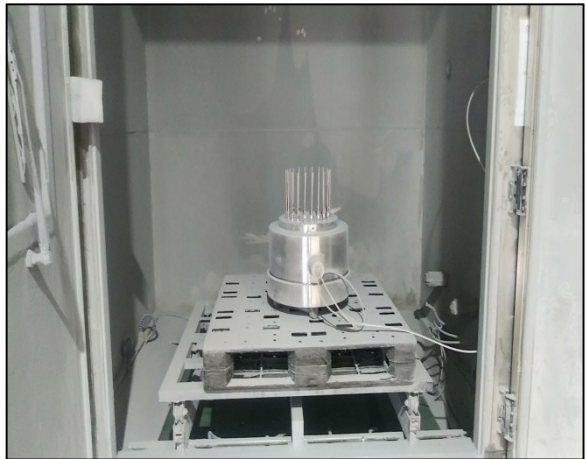
Description	Manufacturer & Model	Serial Number	The due date of next Calibration	Calibration Laboratory
Dust Chamber	KP-SC3000	KP1802012	October 26, 2019	CGEL

(3) Test result

Check item	Test result
-. Confirmation of dust resistance	No dust penetration was found. (Refer to page 9)



(4) Test photograph





※ Annex 1. Visual inspection data

1. IPX6 : No water penetration was found.



2. IP6X : No dust penetration was found.



End.