

# GWF AG TEST REPORT

## SCOPE OF WORK

UL 2043, FIFTH EDITION, DATED SEPTEMBER 14, 2023, FIRE TEST FOR HEAT AND VISIBLE SMOKE RELEASE FOR DISCRETE PRODUCTS AND THEIR ACCESSORIES INSTALLED IN AIR-HANDLING SPACES ON UNICOE

## REPORT NUMBER

106380832SAT-001B REV1

## TEST DATE

11/13/2025

## ISSUE DATE [REVISED DATE]

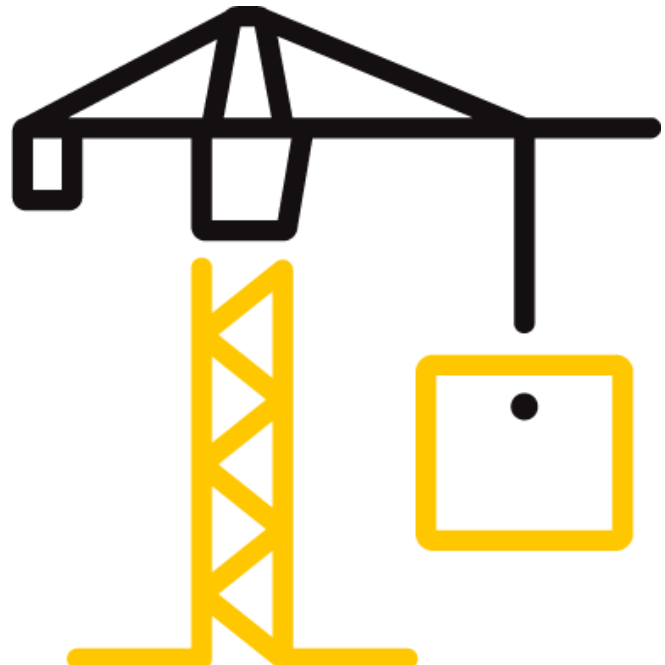
11/16/2025 12/19/2025

## PAGES

10

## DOCUMENT CONTROL NUMBER

GFT-OP-10C (10/03/23)



## TEST REPORT FOR GWF AG

Report No.: 106380832SAT-001B REV1

Date: 12/19/2025

### REPORT ISSUED TO

#### GWF AG

Obergrundstrasse 119

Luzern, Obergrundstrasse 119 CH-6005

Switzerland

### SECTION 1

#### SCOPE

Intertek Building & Construction (B&C) was contracted by GWF AG, to perform testing in accordance with UL 2043, Fifth Edition, Dated September 14, 2023, Fire test for Heat and Visible Smoke Release for Discrete Products and Their Accessories Installed in Air-Handling Spaces, on their UNICOe. Results obtained are tested values and were secured by using the designated test method. The test was conducted at Intertek B&C test facility in Elmendorf, Texas.


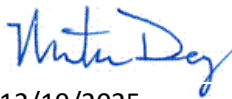
Unless differently required, Intertek reports apply the "Simple Acceptance" rule also called "Shared Risk approach," of ILAC-G8:09/2019, Guidelines on Decision Rules and Statements of Conformity.

### SECTION 2

#### SUMMARY OF TEST RESULTS

| Test Run | Specimen Model | RESULTS |
|----------|----------------|---------|
| 001B     | UNICOe         | PASSED  |

For INTERTEK B&C:

|                      |   |                     |   |
|----------------------|---|---------------------|---|
| <b>COMPLETED BY:</b> | Theodore Salazar  | <b>REVIEWED BY:</b> | Michael Dey   |
| <b>TITLE:</b>        | Technician 3  | <b>TITLE:</b>       | Project Engineer  |
| <b>SIGNATURE:</b>    |  | <b>SIGNATURE:</b>   |  |
| <b>DATE:</b>         | 12/19/2025  | <b>DATE:</b>        | 12/19/2025  |

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### SECTION 3

#### TEST METHOD(S)

The specimen was evaluated in accordance with the following:

**UL 2043, FIFTH EDITION, DATED SEPTEMBER 14, 2023, FIRE TEST FOR HEAT AND VISIBLE SMOKE RELEASE FOR DISCRETE PRODUCTS AND THEIR ACCESSORIES INSTALLED IN AIR-HANDLING SPACES**

This test method is for determining the fire performance response of discrete products (including but not limited to electrical equipment) intended to be installed in air handling spaces, such as above suspended ceilings or below floors. These products are subjected to an open flame ignition source and evaluated using a product calorimeter. The purpose of this test is to determine the rate of heat release and the rate of smoke release of the burning product samples as they relate to the requirements for fire-resistant and low-smoke-producing characteristics in accordance with the provisions of the following codes: National Electric Code, NFPA 70; the International Mechanical Code, NFPA 5000; and the Standard for the Installation of Air Conditioning and Ventilating Systems, NFPA 90A.

### SECTION 4

#### LIST OF OFFICIAL OBSERVERS

| NAME             | COMPANY      |
|------------------|--------------|
| Theodore Salazar | Intertek B&C |

### SECTION 5

#### EQUIPMENT

| Equipment Type          | Equipment No. | Cal. Due Date |
|-------------------------|---------------|---------------|
| Thermo-Hygrometer       | 19270722      | 12/26/25      |
| Pressure Transducer     | 306056763     | 11/21/25      |
| Data Acquisition System | 02LE006       | 01/31/26      |
| Flowmeter (0-8 SCFM)    | 63721010006   | Ref. Only     |
| Stopwatch               | 181512641     | 11/30/25      |

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### SECTION 6

#### TEST PROCEDURE

All instrumentation was zeroed and calibrated prior to testing. The test specimen, after conditioning to 73°F and 50% R.H., was placed on the specified test frame / enclosure. The 12" x 12" x 4" propane test burner was centered under the specimen, and the test was started. The test specimen is exposed to a direct flame impingement with a heat release rate of 60 kW (92 cubic feet per hour). The test was conducted for 10 minutes at which time the gas burner is shut off.

### SECTION 7

#### TEST SPECIMEN SELECTION AND DESCRIPTION

Sample was submitted to Intertek directly from GWF AG. Sample was not independently selected for testing. Samples, in good condition, were received at the Evaluation Center on 10/27/2025 (SAT2510271251-001)

The specimen consisted of an Singlejet Meter for cold or hot water applications. One specimen was provided.

For additional details, see the data and photographs in this report. See SECTION 10.

### SECTION 8

#### TEST AND OBSERVATIONS RESULTS

Test – Specimen-001B

The specimen was placed in the test enclosure and tested at 1:39 p.m. on November 13, 2025. The ambient temperature was 73°F, with a relative humidity of 53%. The data recorded includes Smoke Release Rate (SRR), Heat Release Rate (HRR). The acceptance criteria data was calculated from these values using the formulas in UL 2043 Section 7. This data may be found in Section 9.

Observations during the test were recorded. The observations are as follows:

| TIME<br>(min:sec) | OBSERVATION   |
|-------------------|---|
| 0:00              | The 60-kW propane burner was ignited.               |
| 0:56              | The plastic cover began to melt.                    |
| 10:00             | The propane burner was turned off. Test Terminated. |
|                   |   |
|                   |   |
|                   |   |
|                   |   |

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**SECTION 9**

**EVALUATION RESULTS AND CONCLUSION**

| ITEM   | RESULTS                |
|--|------------------------|
| Peak rate of heat release (HRRs)                                   | 11 kW                  |
| Peak rate of smoke release (SRRs)                                  | 0.03 m <sup>2</sup> /s |
| Total smoke released for first 10 minutes (TSR)                    | 1 m <sup>2</sup>       |
| Peak normalized optical density*                                   | 0.08                   |
| Average normalized optical density (for first 10 minutes 10 min) * | 0.00                   |
| Results  | Passed                 |

(\*Informational data only, not used for acceptance criteria)

ACCEPTANCE CRITERIA

1. The peak rate of heat release (HRRs) measured during each test shall be 100 kilowatts or less.
2. The peak smoke release rate measured during each test shall be 0.21 m<sup>2</sup>/s or less, SRRs.
3. The total smoke release (10-minute test duration) shall be 75 m<sup>2</sup> or less, TSR.

Intertek Testing Services NA (Intertek) has conducted testing for GWF AG, on the UNICOe to evaluate heat and smoke release. Testing was conducted in accordance with UL 2043, Fifth Edition, Dated September 14, 2023, Fire test for Heat and Visible Smoke Release for Discrete Products and Their Accessories Installed in Air-Handling Spaces. The specimen tested met the requirements of this test method.

The conclusions of this test report may not be used as part of the requirements for Intertek product certification. Authority to Mark must be issued for a product to become certified.

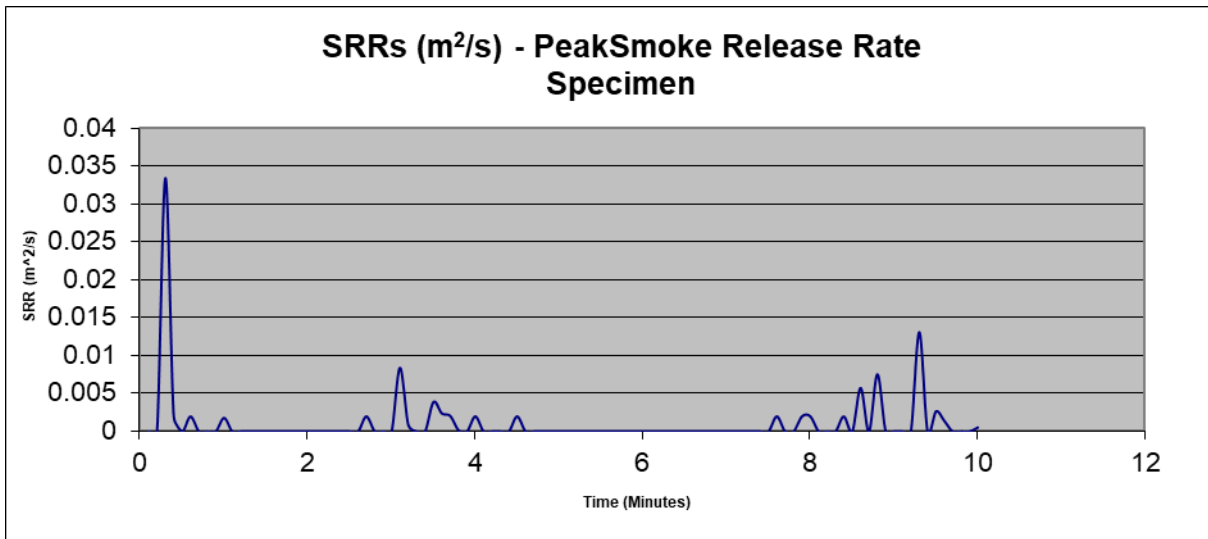
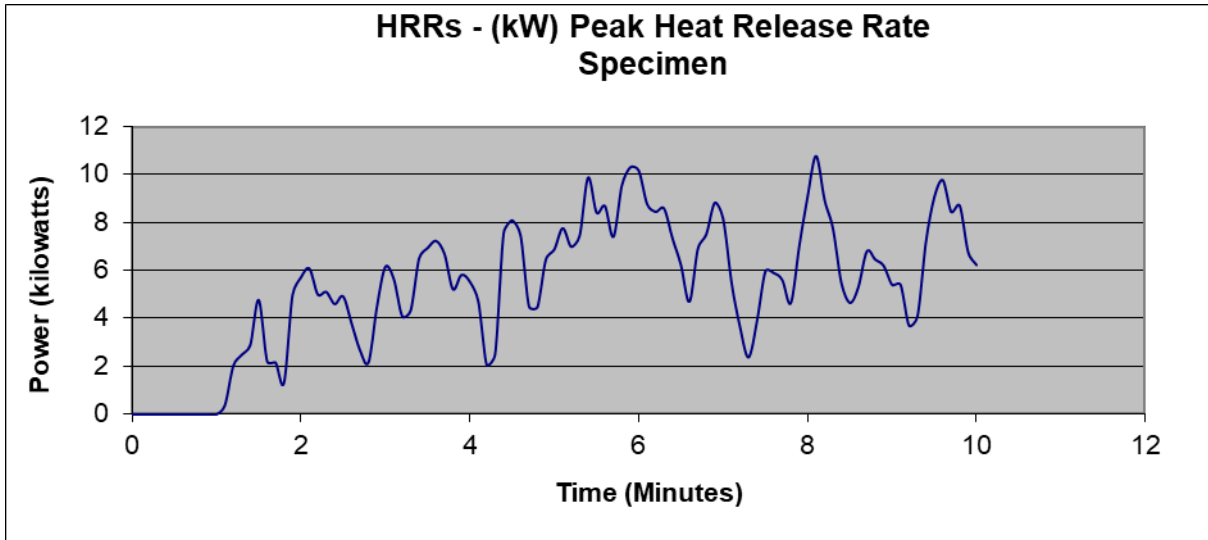
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### SECTION 10

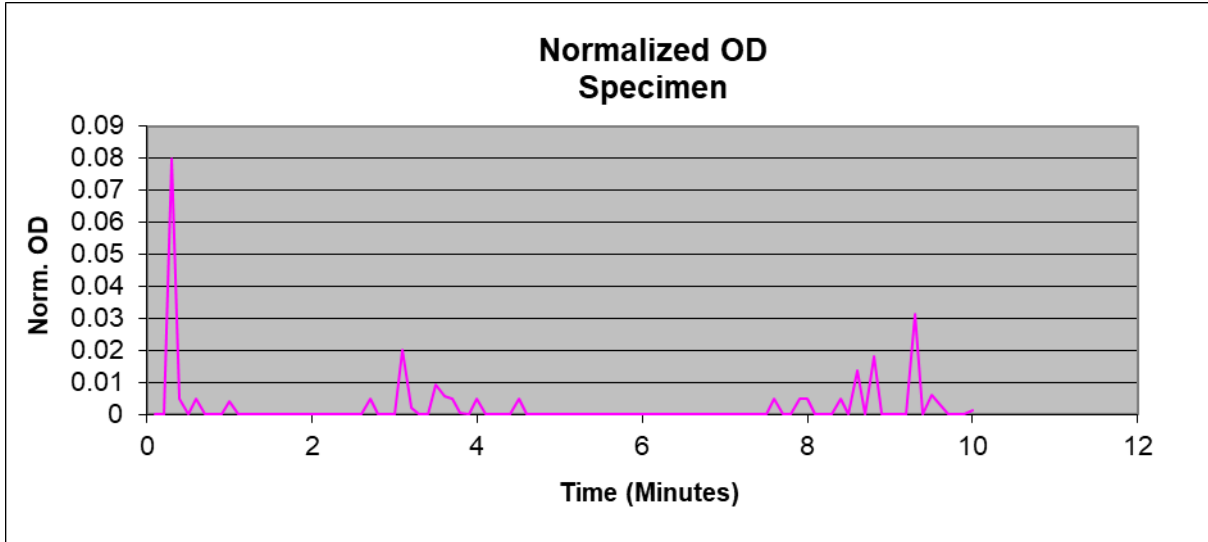
#### TEST DATA AND PHOTOGRAPHS



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Pre-test photo

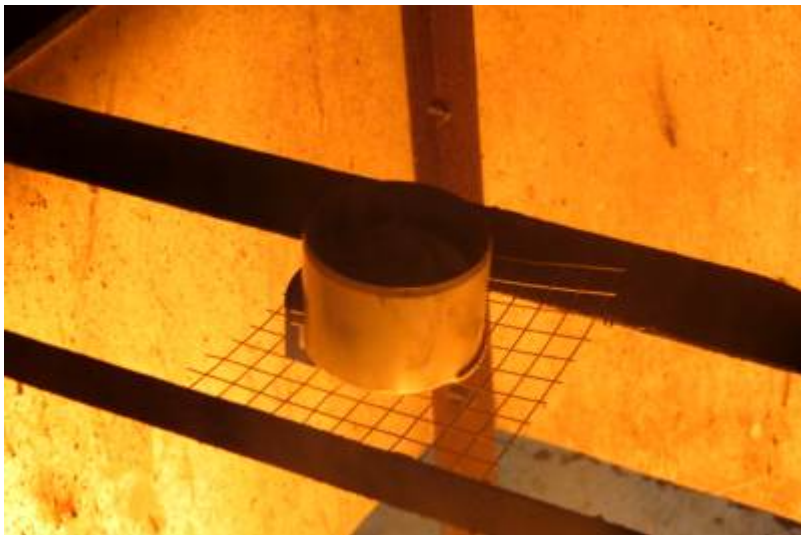
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Pre-test photo



Test photo

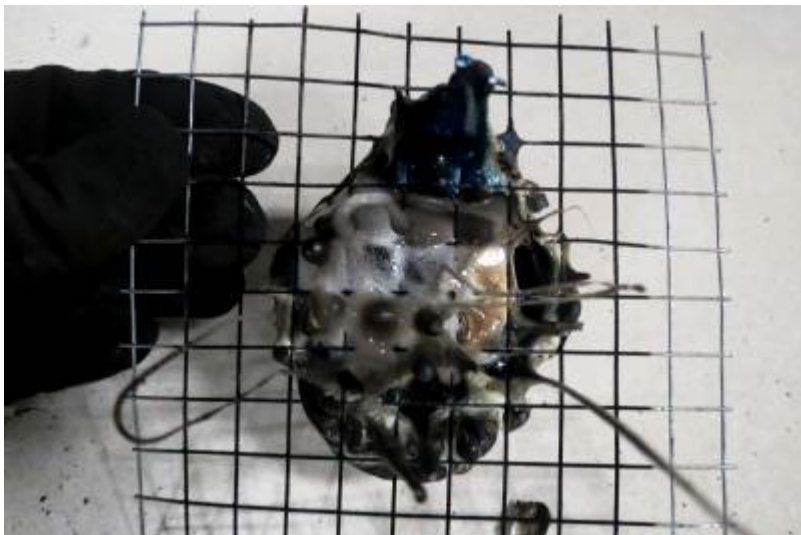
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Post-test photo



Post-test photo


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### SECTION 11

#### REVISION LOG

| REVISION # | DATE       | PAGES   | REVISION   |
|------------|------------|---------|--|
| 0          | 11/16/2025 | N/A     | Original Report Issue  |
| 1          | 12/19/2025 | 1-2 & 5 | Sample ID changed, requested by the client.<br> |