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TECHNICAL REPORT **RAPPORTO TECNICO**

No. SIC 09198.00
Rev. 00 Dated 2009-12-29

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Client: SIFIM s.r.l.
Via Ignazio Silone, 3
60035 Jesi (AN) - ITALY
Customer code: -----
Contact person: Mr. Del Gatto Marco

Manufacturing place: SIFIM s.r.l.
Via Ignazio Silone, 3
60035 Jesi (AN) - ITALY
Customer code: -----

Test subject: Product: INDUSTRIAL FILTER used on HOODS for
INDUSTRIAL KITCHEN.
Type: FA-BF25; FA-FLM25; FA-2FLV50; FAK-2FLM50;
FAK-FL45; FA-2FL50.
Trade mark: SIFIM

Test specification: ▪ Clause 8.2 (from sub-clause 8.2.1 to sub-clause 8.2.3) of
standard DIN 18869-5:2007

Purpose of examination: ▪ Flame resistance test of the industrial filters according to the
test specification.

Form: ITA_F_09.02 (Rev4 January 31,
2008)

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TÜV Italia SRL
Divisione PS-TEC

Document name: SIC09198.00
Technical report no. : SIC09198.00
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Page 1 of 20

Project manager: NAFI ANDREA
Issue date: 2009-12-28

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Test result: **POSITIVE**

*Risultato della
prova:*

- The test results show that the presented filters are in compliance with the specified requirements.

This report is directly connected with extended Test Report SIC -----, where results of test and comments are contained.

1 Description of the test subject

Descrizione del campione sottoposto a prova

INDUSTRIAL FILTERS used on HOODS for INDUSTRIAL KITCHEN.

TYPES:

FA-BF25; FA-FLM25; FA-2FLV50; FAK-2FLM50; FAK-FL45; FA-2FL50.

TRADE MARK: SIFIM

1.1 Function

Baffle (grease detention) industrial filters used on hoods for greating kitchen.

1.2 Consideration of the foreseeable misuse

- | | |
|-------------------------------------|--------------------------------------|
| <input checked="" type="checkbox"/> | Not applicable |
| <input type="checkbox"/> | Covered through the applied standard |
| <input type="checkbox"/> | Covered by the following comment |
| <input type="checkbox"/> | Covered by attached risk analysis |



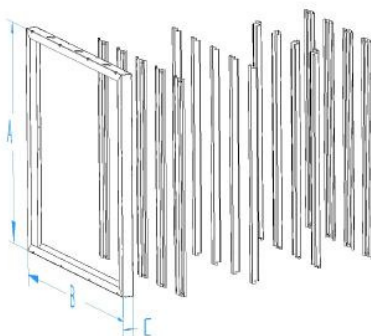
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1.3 Technical Data

Type: FA-BF25



Description:

Frame : Inox aisi 304
Listels : Inox aisi 304
Handle : Many models in aisi 304 (Options)

Exploded filter



Filter's section

DIMENSIONS A x B x C [mm]	FLOW RATE [m ³ /h]	DIMENSIONS A x B x C [mm]	FLOW RATE [m ³ /h]
200x400x25	200-345	400x500x25	570-970
250x400x25	250-430	450x400x25	450-780
250x500x25	315-540	450x450x25	510-875
300x400x25	300-520	450x500x25	570-970
300x500x25	380-650	500x300x25	380-650
350x400x25	350-605	500x350x25	440-760
350x350x25	310-530	500x400x25	505-865
350x500x25	440-760	500x500x25	630-1080
400x400x25	400-690		



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1.4 Appliance identification code

2. Order

2.1 Date of Purchase Order, Customer's Reference

2009-12-22 by SIFIM s.r.l.

Customer's reference: Mr. Del Gatto Marco

2.2 Receipt of Test Sample, Location

2009-12-29 c/o lab SIFIM s.r.l. –
Via Ignazio Silone, 3 – 60035 Jesi (AN) – ITALY

2.3 Date of Testing

2009-12-29.

2.4 Location of Testing

Lab SIFIM s.r.l.
Via Ignazio Silone, 3 – 60035 Jesi (AN) - ITALY

2.5 Points of Non-compliance or Exceptions of the Test Procedure

NONE



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3. Test Results

3.1 Test execution

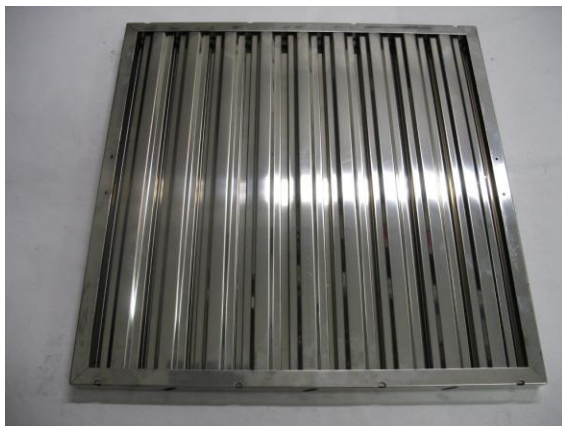
The tests have been carried out with the testing bench present to the lab of the manufacturer that is in compliance to clause 8.2. of standard DIN 18869-5:2007 concerning flame resistance test for industrial filters.

The tests have been carried out with samples installed on mount inclined of an angle of 30°.

3.2 Test results

Filter Type FA-BF25:

- 1) Flow rate: 1.080m³/h
- 2) Testing time: 1 minute and 48 seconds
- 3) No flame on the back side of the filter
- 4) After the test the filter results not damaged.



Front side



Back side

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Page 5 of 20

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3.3 Positive Test Results

- The test specifications are met.

3.4 Points of non-compliance according to the test specification

NONE

4. Remark

- See also pressure drop tests in conformity to standard UNI EN ISO 5167 carried out by the manufacturer for any type of filters.



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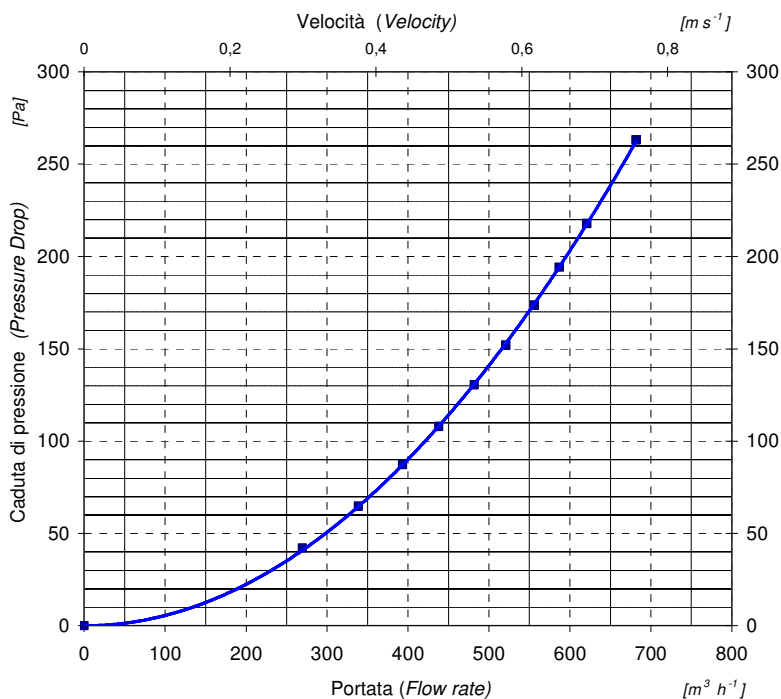
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FILTER'S PERFORMANCE TYPE FA-BF25



PRESSURE DROP (respect norm UNI EN ISO 5167)
Certificated by Marche's Polytechnic University (Energetic Department)



Valid test for filter dimension: 500(H)x500x25 mm in reference

conditions: - ambient pressure: 101325 Pa

- ambient temperature: 20°C

Uncertainty: flow rate: $\pm 1,5\%$
pressure drop: $\pm 2,3$ Pa

N.B.: Flow rate $Q=(A \times v) \times 3600/1000000$ [m³/h]

- A=filter section
- v=velocity air



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5. Documentation
Documentazione

- Separated movies tests.

6. Summary
Riassunto

TÜV Italia srl
PS-TEC Division
Electrical Safety Lab

Engineer:

(ANDREA NAFI)

Technical Report checked:

(DOMENICO PIGNATARO)