

X/F

Bellaterra : 31 de octubre de 2008
 File number : 08/32312064
 Test sponsor : CASALS VENTILACIÓN, S.L
 Ctra de Camprodon s/n
 17860 Sant Joan de les Abadesses
 (Girona)

EXTENSION OF THE FILES:

- 08/32302518 with date 13 of March of 2008.
- 08/32302599 with date 13 of March of 2008.

File N° 08/32302518.

Test carried out on: 6 of February of 2008.

Test standard: fan for smoke extraction at 400°C/2h according to UNE EN 12101-3:2002.

Fan model: BVFC 18/18 T4 of Casals (48 blades).

Motor: 721001181 of Tilman with the following characteristics: size 132, 5.5 kW, 1440 rpm, 400V.

Test results: Work at 400°C for 132 minutos (123+9).

Classification: Class F400 (120 minutes of work at 400°C).

File N° 08/32302599.

Test carried out on: 7 of February of 2008.

Test standard: fan for smoke extraction at 400°C/2h according to UNE EN 12101-3:2002.

Fan model: BVFC 10/10 T4 of Casals (43 blades).

Motor: 721001155 of Tilman with the following characteristics: size 90, 1.5 kW, 1400 rpm, 400V.

Test results: Work at 400°C for 131 minutos (123+8).

Classification: Class F400 (120 minutes of work at 400°C).

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 This document consists of 38 pages of which 35 are annexes.

File N° 08/32312064: Extension for a fan range for smoke extraction at 400 °C/2H, with the reference BVFC, material supplied by CASALS VENTILACIÓN, as indicated on the technical justification section.

TECHNICAL JUSTIFICATION:

As it is indicated on the test carried out on the fans models BVFC 18/18 T4 and BVFC 10/10 T4, made by CASALS as indicated on the technical specifications, it can be considered the following fan range:

BVFC				
BVFC 9/9 ½ T4	BVFC 10/10 ½ T4	BVFC 12/12 ½ T4	BVFC 15/15 ¾ T4	BVFC 18/18 1.5 T4
BVFC 9/9 ¾ T4	BVFC 10/10 ¾ T4	BVFC 12/12 ¾ T4	BVFC 15/15 1 T4	BVFC 18/18 2 T4
BVFC 9/9 1 T4	BVFC 10/10 1 T4	BVFC 12/12 1 T4	BVFC 15/15 1.5 T4	BVFC 18/18 3 T4
BVFC 9/9 1.5 T4	BVFC 10/10 1.5 T4	BVFC 12/12 1.5 T4	BVFC 15/15 2 T4	BVFC 18/18 4 T4
	BVFC 10/10 2 T4	BVFC 12/12 2 T4	BVFC 15/15 3 T4	BVFC 18/18 5.5 T4
		BVFC 12/12 3 T4	BVFC 15/15 4 T4	BVFC 18/18 7.5 T4
			BVFC 15/15 5.5 T4	

Match to a tested fan


Each of the tested fans (BVFC 18/18 T4 and BVFC 10/10 T4) were tested with two different bearings (Feyc "NP20-EC and INA "PASE20NFA106"). Both bearings were installed on the same fan in each test.

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CONCLUSION:

As indicated on the Technical Justification section, and as it is showed on the tests carried out according to the UNE EN 12101-3: 2002 "Smoke and heat control systems- part 3: Specification for powered smoke and heat exhaust ventilators", the fan range BVFC, made by CASALS VENTILACION, can be classified as :

"BVFC range" of Casals Ventilación tested with TILMAN motors
400°C/2h
CLASS F 400, 120 minutes
Fans placed outside the furnace.


Jordi Mirabent Junyent
Fire Responsible
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The results refer exclusively to the sample, product or material surrendered to the Laboratory, just as it is informed in the section of received material and tested under the conditions indicated in the standards mentioned in this document.

Quality Service Warranty

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