



Notified Body No. 0370

# CERTIFICATE



No.

0370-CPR-3915

## CERTIFICATE OF CONSTANCY OF PERFORMANCE

In compliance with Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product:

**SMOKE AND HEAT CONTROL SYSTEMS. PART 3: SPECIFICATION FOR POWERED SMOKE AND HEAT CONTROL VENTILATORS (FANS)**

PRODUCT MODEL: "ARMO-JR 50"

Place on the market under the name of:

**BVN - BAHÇIVAN ELEKTRİK MOTOR SAN. VE TİC. LTD. ŞTİ.**

ÖMERLİ MAH. HADIMKÖY CD. No: 147  
34555 ARNAVUTKÖY / İSTANBUL / TÜRKİYE

And produced in the manufacturing plant:

ÖMERLİ MAH. HADIMKÖY CD. No: 147  
34555 ARNAVUTKÖY / İSTANBUL / TÜRKİYE

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard

**EN 12101-3:2015**

under system 1 are applied and that **the product fulfils all the prescribed requirements set out above.**

This certificate was first issued on 13<sup>th</sup> March 2020 and will remain valid as long as the test methods and/or factory production control requirements included in the harmonised standard, used to assess the performance of the declared characteristics, do not change, and the product, and the manufacturing conditions in the plant are not modified significantly.

**The monitoring assessment will be done before June 2020**

Bellaterra, 13<sup>th</sup> March 2020

  
LGAI Technological Center, S.A.  
Xavier Ruiz Peña  
Managing Director, Product Conformity B.U.



*This document is not valid without its technical annex, whose number coincides with the number of certificate.*

*You can check the validity of this certificate into our website at: <https://apps.applus.com/microsites/microsites/FECIP/login>*

## 0370-CPR-3915

### CERTIFIED PERFORMANCES

Essential characteristics	Clauses in this European Standard	Mandated level(s) or class(es)
<b>Response delay</b> - Opening under wind load within a given time; - Opening under snow load within a given time.	4.1.1	NA
		NA
<b>Operational reliability</b> - Application categories; - Motor rating.	4.2.2	<ul style="list-style-type: none"> <li>• Thermally uninsulated</li> <li>• Converter feed</li> <li>• Dual purpose use</li> <li>• To use inside/outside smoke reservoir</li> <li>• Vertical direction of motor shaft.</li> </ul>
	4.2.3	NPD
<b>Effectiveness of smoke/hot gas extraction:</b> - Gas flow and pressure maintenance during smoke and heat extraction test.	4.3.2	+/-20% (P <sub>S</sub> )
<b>Resistance to fire</b>	4.4	F <sub>400</sub> (120)
<b>Ability to open under environmental conditions</b> - Opening under wind load within a given time; - Opening under snow load within a given time.	4.5	NA
		NA
<b>Durability of operational reliability</b>	4.6	NPD

PASS; NPD = No Performance Determined; NA = Not Applicable

### PRODUCT

#### 1.- Application:

- Extractor tested inside the furnace.
- Extractor F400 (120). Tested during 120 min.
- Vertical inlet and horizontal outlet of the direction of air flow.
- 7 Galvanized steel blades.

#### 2.- Characteristics:

- Motor: 90S-08/04 by WEG
- Construction size: 90S
- Rated frequency: 50 Hz
- Rated Voltage motor: 400 V
- Polarity: 8/4

#### 3.- Accessories:

- The impeller is coupled directly with the electric motor.
- The motor is plugged to electric net by means of high temperature resistant cable model VSH 1200.
- Protection grid.
- Power terminal.
- Frequency converter

The complete technical data of the certified fan "ARMO-JR 50" are detailed in the technical file and the test report and classification report nº 19-20704-2384 and IC-19-20704-2384.