

# CERTIFICATE OF CONSTANCY OF PERFORMANCE

LGAI Technological Center, S.A. (APPLUS)  
Notified Body Nr. 0370

No. **0370-CPR-3994**

In compliance with Regulation (EU) Nr. 305/2011 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. VENTILATORS (FANS).**

PRODUCT: **DVN/DVNI F400**

Placed on the market under the name of:

## **RUCK VENTILATOREN GmbH**

MAX-PLANCK-STR. 5  
D-97944 BOXBERG (DEUTSCHLAND)

And produced in the manufacturing plant:

## **RUCK VENTILATOREN S.R.L.**

STR. 1 DECEMBRIE 1918 NR. 44/H  
TÂRNĂVENI, 545600, ROMANIA

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 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the constancy of performance of the construction product.

This certificate was first issued on 22<sup>nd</sup> May 2020 and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body. It is confirmed on 28<sup>th</sup> April 2023.

### **The monitoring assessment will be done before 31<sup>st</sup> May 2024**

Bellaterra, 28<sup>th</sup> April 2023

  
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 that of the certificate.*

*You can check the validity of this certificate on our website: [www.appluslaboratories.com/certified\\_products](http://www.appluslaboratories.com/certified_products)*

The manufacturer, after the completion of the conformity assessment procedures and the declaration of performance, may affix the CE Marking under his responsibility



## 0370-CPR-3994

Annex according to **EN 12101-3:2015**

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

#### **CERTIFIED PERFORMANCE**

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>• Converted feed</li> <li>• Dual purpose use</li> <li>• Placed outside of the smoke reservoir</li> <li>• Vertical direction of the 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% (Ps)
<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 outside the furnace.
- Extractor F400 (120).
- Dual use.
- Inlet and outlet airflow in vertical direction.
- DVN and DVNI models share the same impellers, difference between them is that DVNI include an isolated box.

##### **2.- Characteristics:**

- Motor: W21 by WEG
  - Motor sizes: from 71 to 132
  - Rated Voltage motor: 400 V
  - Up to 4 kW
- Fan diameters: from 225 mm up to 710 mm

##### **3.- Accessories:**

- Inlet connection reference DAS 250 by Ruck
- Inlet flange reference DAF 180 and DAF 560 by Ruck
- Base plate reference DAP 560 by Ruck
- Automatic shutter reference DVK 710 by Ruck
- Silencer socket reference DSF 710 and DSF 560 by Ruck
- Socket reference DSF 280 by Ruck
- Socket reference DSF schräg by Ruck (Pitched roof base)
- Frequency converter reference E510 and EM16 by Teco
- Switch type A 105/10.8600-IP55-RU reference 0541861902 by Merz
- Terminal box reference DK 0400 G and K 9100 G and K 9060 G by Hensel
- High temperature fiberglass tape by Kera
- Sealant reference MEZ-MASTIC 400 by Meztechnik
- Stone wool reference Rockwool Steinwolle by Rockwool.

The complete technical data of the certified range **DVN/DVNI F400** are detailed in the technical file and the range report nº 20/20719-768.