

  
**CERTIFICATE**  
**FOR EUROPEAN PRODUCT SAFETY**

Reference No. SE-S-2100914R1

## Heater for mounting in ventilating duct

<b>Type designation:</b>	CV aa-bb-cdefghi, CV aa-bb-cViCi-*
<b>Certificate holder:</b>	VEAB Heat Tech AB Stattenavägen 50 281 33 Hässleholm Sweden
<b>The product complies with the standard(s):</b>	EN 60335-1:2012+A11+A13+A1+A14+A2+A15+A16 EN 60335-2-30:2009+A11+A1+A12+A13+A2 EN 62233:2008
<b>Date of expiry:</b>	28 June, 2026
<b>EU Directive information:</b>	The product listed has been evaluated by a Third Party Body and deemed to meet the listed standard(s). This Certificate can be used in support of a claim in meeting relevant EU legislation and mandatory Conformity Marking. And in accordance with EU law, the claim is the sole obligation of the Manufacturer/ Importer.

Additional information in Appendix

**Certification Body:** Intertek Semko AB, Product Certification **Place:** Kista - Stockholm

**Signed:**  **Date:** 19 December, 2024

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## APPENDIX:

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### Technical Data:

Type designation	CV aa-bb-cdefghi, CV aa-bb-cViCi-*
Rated voltage (V)	230, 400-460
Rated power (W)	300 - 15000
Frequency (Hz)	50-60, 50
Class	I
IP-Class	44, 55
Trademark	VEAB Heat Tech AB
Test Report	2408065STO-001
Product information	Heater for horizontal or vertical mounting in ventilating duct

### Key code:

The heaters can be made in a wide range of models, in aspect of rated power, duct diameter, mains voltage, power control, etc.

CV aa-bb-cdefghi

**aa, bb, c** and **d** are always denoted

**ef** is denoted only if the heater has built in power control

**g** is denoted only in combination with **f = I, E** or **U**

**h** may be denoted in any combination

**i** is denoted only if the mains voltage is 230V 3~

where aa = the duct diameter in cm, approximated down to two digits.

bb = the rated power in hW, approximated to integer values.

c = 1 when made for single-phase 230V connection to mains.

c = 2 when made for two-phase 400V connection to mains.

c = 3 when made for three-phase 230V, 400V, 440V or 460V connection to mains.

d = M when the thermal protectors are of bi-metal disc type in series with the load, or in the control circuit of a built-in contactor.

d = E when the thermal protectors are of bi-metal disc type, and separately connected to terminal blocks.

d = P same as M but has heating elements with low surface load for low airflows.

d = D when the thermal protectors are of capillary type, and separately connected to terminal blocks when the heater is without built-in controller, or in series with the internal control circuitry when the heater has a built-in controller.

d = ERI same as D but has the heating elements mounted with Electrical Reinforced Insulation.

e = T with built-in controller but without airflow interlocking function.

e = Q with built-in controller and with airflow interlocking function.

f = I with built-in temperature controller and internal set-point potentiometer.

f = E with built-in temperature controller and external set-point potentiometer.

f = U with both I and E function (the user selects the function during installation).

f = X with built-in power controller meant for 0...10V excitation signal.

f = Y with built-in power controller meant for 2...10V excitation signal.

f = C with built-in power controller meant for 4...20mA excitation signal.

f = P with built-in power controller meant for PWM excitation signal.

g = M with built-in temperature controller and with MIN and/or MAX limitation.

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h = L with alarm relay to indicate thermal protection tripping.  
i = 2 when made for mains voltage 230V 3~  
cdefgh = 1Modbus with built-in MODBUS controller for mains voltage 230V~  
cdefgh = 2Modbus with built-in MODBUS controller for mains voltage 400V2~  
cdefgh = 3Modbus with built-in MODBUS controller for mains voltage 400V3~  
cdefghi = 3Modbus2 with built-in MODBUS controller for mains voltage 230V3~

Key code: CV aa-bb-cViCi-\*

aa, bb and c are always denoted where:

aa = the duct diameter in cm, approximated down to two digits.  
bb = the rated power in hW, approximated to integer values.  
c = 1 when made for single-phase 230V connection to mains.  
c = 2 when made for two-phase 400V connection to mains.  
c = 3 when made for three-phase 230V, 400V, 440V or 460V connection to mains.  
ViCi = Heater is built with alternative control board 1ES, 1FS, 3ES, or 3FS  
Asterisk(\*) can equal the following combinations: AL, QAL, AWL, QAWL, O, QO, OL, QOL where:  
A = Output is controlled with 0-10V, 2-10V, or 4-20mA  
AW = Output is controlled with a PWM voltage of 5-25V  
O = Output is controlled with NTC, PT100, or PT1000  
Q = The heater has an airflow interlocking function  
L = The heater has an alarm relay to indicate thermal protection tripping.

**Manufacturing Sites:** VEAB Heat Tech AB  
Stattenavägen 50  
281 33 Hässleholm, Sweden

This certificate replaces previously issued ref. No. SE-S-2100914 dated 28 June 2021.  
A new certificate has been issued on account of addition of new alternative control board,  
new power consumption measuring circuit, update and addition of type reference and update of standards.

The instruction for use shall be written in a language acceptable according to the national regulation in the country where the product is to be used.

**Certification Body:** Intertek Semko AB, Product Certification **Place:** Kista - Stockholm  
**Signed:**  **Date:** 19 December, 2024

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