



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

### Ex COMPONENT CERTIFICATE

Certificate No.: **IECEX DEK 20.0005U** Page 1 of 4 [Certificate history:](#)  
Issue 0 (2020-12-16)

Status: **Current** Issue No: 1

Date of Issue: 2021-07-21

Applicant: **nVent Thermal Belgium N.V.**  
Reasearch Park Haasrode – Zone 2  
Romeinse Straat 14  
3001 Leuven  
**Belgium**

Ex Component: **RAYCHEM Low Profile Power Connection, Splice and End Seal Kits, types C-150 E, S-150 and E-150**

*This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).*

Type of Protection: **Ex eb and tb**

Marking: **Ex eb IIC Gb**  
**Ex tb IIC Db**

Approved for issue on behalf of the IECEx  
Certification Body:

**L.G. van Schie**

Position:

**Certification Manager**

Signature:  
(for printed version)

Date:

2021-07-21

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
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Certificate issued by:

**DEKRA Certification B.V.**  
**Meander 1051**  
**6825 MJ Arnhem**  
**Netherlands**





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Manufacturer: **nVent Thermal Belgium N.V.**  
Reasearch Park Haasrode – Zone 2  
Romeinse Straat 14  
3001 Leuven  
**Belgium**

Additional  
manufacturing  
locations: **nVent Thermal LLC**  
899 Broadway St.  
Redwood City, CA 94063  
**United States of America**

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

#### STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

**IEC 60079-0:2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-31:2013** Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

**IEC 60079-7:2017** Explosive atmospheres - Part 7: Equipment protection by increased safety "e"  
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

#### TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[NL/DEK/ExTR20.0006/01](#)

Quality Assessment Reports:

[GB/BAS/QAR06.0030/09](#)

[GB/BAS/QAR07.0053/08](#)



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**Ex Component(s) covered by this certificate is described below:**

The Low Profile Power Connection, Splice and End Seal Kits, types C-150-E, S-150 and E-150 are intended for use with nVent RAYCHEM parallel Trace Heaters. The kits are certified as separate termination components for trace heaters in types of protection Ex eb or Ex tb, suitable for use underneath or outside of the thermal insulation of the heated workpiece

**SCHEDULE OF LIMITATIONS:**

The maximum surface temperature depends on the configuration of the Trace Heating system, determined in accordance with IEC/IEEE 60079-30-1.

The temperature at the power cable branching point, when connected in the Power Connection Kit type C-150-E, shall be considered in applications which expose the Power Connection Kit to temperatures higher than 70 °C for selecting a power cable with the appropriate temperature rating.

For details of temperature limitations see "thermal data" in Annex 1 to NL/DEK/ExTR20.0006/01.



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

Addition of HTV trace heater option.

**Annex:**

[382921400-ExTR20.0006.01-Annex 1.pdf](#)