1 # UK-TYPE EXAMINATION CERTIFICATE

2 **Component Intended for use on/in a Product or Protective System Intended for use in Potentially Explosive Atmospheres**
UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

3	UK-Type Examination Certificate Number:	**BAS21UKEX0658U Issue 1**
4	Product:	**RAYCHEM Low Profile Power Connection, Splice and End Seal Kits, types C-150-E, S-150 and E-150**
5	Manufacturer:	**Chemelex Belgium NV**
6	Address:	**Romeinse straat 14, 3001 Leuven, Belgium**

7 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 SGS United Kingdom Ltd. (formerly SGS Baseefa Ltd.), Approved Body number 1180, in accordance with Regulations 42 and 43 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations.

8.1 The BAS prefix to the Certificate Number indicates that the certificate was issued by SGS Baseefa Ltd. prior to the name change to SGS United Kingdom Ltd. Such certificates remain valid with their original number.

The examination and test results are recorded in a confidential report identified in the revision table at item 20.

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 EN IEC 60079-7:2015+A1:2018 EN 60079-31:2014

except in respect of those requirements listed at item 18 of the Schedule.
This certificate issue is for the sole purpose of recording a change to the certificate holder's name/address. A technical review has not been undertaken and the standards remain at the editions listed previously.

10 The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as the basis for certification of an equipment or protective system.

11 This UK-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the product shall include the following:



II 2 G Ex eb IIC Gb
II 2 D Ex tb IIIC Db

SGS Customer Reference No. **5034** Project File No. **25/0112**

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UKAS PRODUCT CERTIFICATION
0191

D BREARLEY
LEAD CERTIFICATION ENGINEER
On behalf of SGS United Kingdom Limited

13 # Schedule

14 ## Certificate Number BAS21UKEX0658U – Issue 1

15 Description of Product

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.

Nomenclature

C – 150 – E

I II III

Designation	Explanation	Value	Explanation
I	Function of Product	C S E	Power Connection Kit, power supply cable + Trace Heater Low Profile Splice Kit, Trace Heater Low Profile End Seal Kit, Trace Heater
II	Type Designation	150	RAYCHEM Low Profile Termination Components
III	Option	E	For Parallel Trace Heaters Option for C-150 Only

Details of Scope

All termination components suitable for use with following nVent RAYCHEM self-regulating parallel Trace Heaters:

- BTV
- QTVR
- KTV
- XTV
- XTVR

C-150-E for use with power supply cables with following properties:

Conductor type:	semi flexible / rigid
Amount of conductors:	2 conductors shielded or 3 conductors unshielded
Environmental protection:	outer sheath / overjacket
Minimum conductor size:	1.0mm² (17 AWG)
Maximum conductor size:	4.0mm² (11AWG)
Minimum outer diameter:	6.8mm
Maximum outer diameter:	12.6mm

The Power Connection, Splice and End Seal Kits provide a degree of protection of at least IP66 in accordance with IEC60079-0 and IEC60529.

Thermal Data

Minimum ambient temperature:		-55°C
Maximum ambient temperature:		+55°C
Maximum operating temperature, power “on”:		+150°C
Maximum exposure temperature, power “off”:	continuously:	+200°C
	intermittent:	+200°C
Maximum surface temperature, power “on”:		+154°C

NOTE:

The temperature range may be further limited by the temperature ratings of the nVent RAYCHEM self-regulating parallel Trace Heaters and power supply to which the termination components are connected.

Ambient temperature defined as per IEC/IEEE60079-30-1:

Surrounding the workpiece including the trace heater and any thermal insulation or weather barrier that may be applied.

Operating and exposure temperatures refer to the workpiece temperature as defined in IEC/IEEE60079-30-1:The temperature of the object to which the trace heater is applied.

The maximum surface temperature has been determined in power "on" condition on a workpiece having the maximum operating temperature power "on", with the trace heater type XTV, representing the highest power output at steady state operating current. At maximum ambient temperature with the complete set up being thermally insulated.

Electrical Data

Rated Voltage: 277 Vac
Maximum nominal current rating of over-current protection: 40 A

NOTE:

The rated current is based on the steady state operating current of a Trace Heating branch circuit with the maximum rated circuit length, related to the supply voltage and nominal current rating of the over-current protection.

16 Report Number

See Item 20 – Certificate History

17 Schedule of Limitations

1. The maximum surface temperature depends on the configuration of the Trace Heating system, determined in accordance with IEC/IEEE 60079-30-1.
2. 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.
3. For details of temperature limitations see "thermal data" in the product description.

18 Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
13	LVD type requirements
14	Overloading of equipment (protection relays, etc.)
21 (1)	External effects
21 (2)	Aggressive substances, etc.

19 Drawings and Documents

Other than for Issue 0, Drawings and Documents that are introduced at a new edition of the certificate are marked with an asterisk symbol:

Number	Sheet	Issue	Date	Description
906833-A		H	5/16/18	C-150, S-150 Core Sealer (Approval Drawing)
906835-A		D	5/17/18	C-150 Sealing Grommet (Approval Drawing)
907276-A		D	09/23/20	C-150, S-150 Terminal Spacer Assembly (Approval Drawing)
908807-A	1-4	F	6/14/2023	S-150 and C-150-E General Assembly Drawing for Dekra
908808-A	1-3	D	6/14/2023	E-150 General Assembly Drawing for Dekra
H57701-A		1	10/20/2020	RAYCHEM0PKG-H57701-S150-E150Bag-EN-2009-PRINT

20 Certificate History

Certificate No.	Date	Comments
BAS21UKEX0658U Issue 0	12 November 2024	**Prime Certificate** **Report Number: 21(C)0319-05 Project Number: 21/0319** **Original issue of the certificate**
BAS21UKEX0658U Issue 1	19 November 2025	The issue of this certificate permits existing information (for example on Certificate Schedule Drawings or label marking) to be updated to show the new name, no other changes may be made to the certified design. A technical review has not been undertaken, and the standards remain at the editions listed previously. Report Number: None Project Number: 25/0112
For drawings applicable to each issue, see original of that issue.		