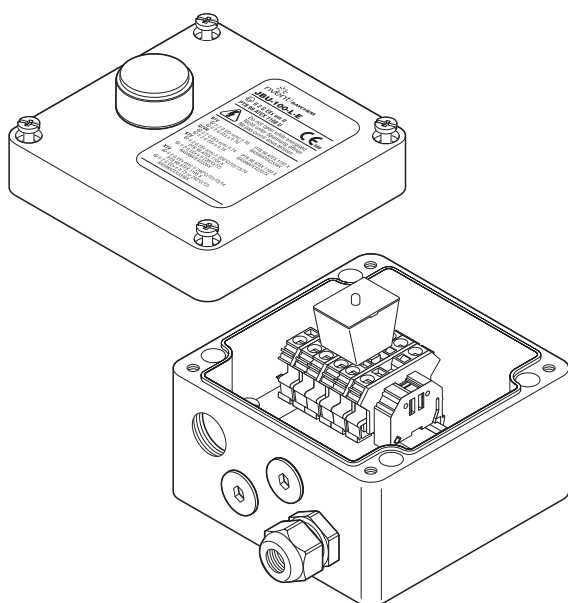


Junction box for modular system

PRODUCT OVERVIEW



The nVent JBU-100 kit is designed to connect power to up to three nVent RAYCHEM BTV, QTVR, XTV, KTV, HTV or VPL industrial parallel heating cables and is approved by PTB for use in hazardous locations.

Innovative Spring-type terminals provide fast installation and safe, reliable, maintenance-free operation.

The box is part of the modular component system, it allows for maximum flexibility and can be either wall or pipe mounted.

Connection kits (M25) and insulation entry kits have to be ordered separately. The box is offered in two basic versions customised to local installation practices.

All kits are also available as a lighted version (-L). These include a unique light module with a superbright green LED that simply plugs into the terminals, and a lens in the lid. This provides indication that power is available in the box.

Description

JBU-100-E JBU-100-L-E	JBU-100-EP JBU-100-L-EP
This box is certified for use in IEC regions and provides four M25 threaded entries, stopping plugs and one plastic power cable gland.	This box is certified for use in IEC regions and provides four M25 threaded entries, an earthing plate and an external earth stud. It is designed for use with armoured power cables.

Kit contents

1 junction box with terminals	1 junction box with terminals with earth plate and external earth stud
1 light module (for -L only)	1 light module (for -L only)
1 M25 gland for a power cable with 8-15 mm diameter	2 M25 stopping plugs
2 M25 stopping plugs	

PRODUCT SPECIFICATIONS

Dimensions (in mm)

JBU-100-E JBU-100-L-E	JBU-100-EP JBU-100-L-EP

Technical details

	JBU-100-E JBU-100-L-E	JBU-100-EP JBU-100-L-EP
Ingress protection	IP66	IP66
Entries	4 x M25	4 x M25
Ambient temperature range	–55°C to +56°C ⁽¹⁾ (JBU-100-E) –40°C to +40°C (JBU-100-L-E)	–55°C to +56°C ⁽¹⁾ (JBU-100-EP) –40°C to +40°C (JBU-100-L-EP)
Terminals	Spring-type terminals 2 phase, 2 neutral, 2 protective earth	Spring-type terminals 2 phase, 2 neutral, 2 protective earth
Max. conductor size	10 mm ² stranded, 10 mm ² solid	10 mm ² stranded, 10 mm ² solid
Max. operation voltage	480 Vac	480 Vac
Max. current rating ⁽²⁾	53 A	53 A

⁽¹⁾ Extra conditions for safe use apply for ambient temperatures above +40°C. Temperature resistant power cable and metal glands must be used. Please refer to the certificate or installation instructions for full details.

⁽²⁾ For pipe temperature > 150°C and < 260°C and XTV, KTV or HTV heating cables, the maximum operating current shall be reduced to maximum 20 A. Refer to heating cable specification for the maximum pipe temperature.

Materials of construction

Enclosure, lid	Electrostatic charge-resistant glass-filled engineered polymer, black	Electrostatic charge-resistant glass-filled engineered polymer, black
Lid screws	Stainless steel	Stainless steel
Lid gasket	Silicone rubber	Silicone rubber
Earth continuity plate	N/A	Steel, zinc plated, and blue chromated

Optional LED indicator light

Colour	Green	Green
Voltage rating	100-254 Vac	100-254 Vac
Power consumption	< 1 W	< 1 W

APPROVALS

For use in ordinary and hazardous area Zone 1 and Zone 2 (Gas), Zone 21 and Zone 22 (Dust) and Class I Zone 1

Temperature classification

Temperature classification is defined by the complete system.

Product certification



More details about product certification, approvals and conditions of safe use are available in the installation manual at www.nVent.com/RAYCHEM.

ORDERING INFORMATION

Junction box

Part Description (**)	JBU-100-E	JBU-100-EP
PN (Weight)	051976-000 (1.7 kg)	243948-000 (1.8 kg)

Junction box with light

Part Description	JBU-100-L-E	JBU-100-L-EP
PN (Weight)	069262-000 (2.1 kg)	113974-000 (2.2 kg)

Accessories

Heating cable connection kits	C25-100, C25-21, CCON25-100	C25-100, C25-21, CCON25-100, C25-100-METAL, C25-100-METAL-NP (Nickel plated brass), C25-100-METAL-SS (stainless steel)
Insulation entry kit	IEK-25-04 or IEK-25-PIPE	IEK-25-04 or IEK-25-PIPE
Power cable gland	GL-55-M25 hazardous area approved gland for cables 8-15 mm (temperature range -55°C/70°C) GL-36-M25 hazardous area approved gland for cables 8-17.5 mm (temperature range -20°C/70°C)	GL-38-M25-METAL (optional)
Junction box support bracket (optional)	SB-100, SB-101	SB-100, SB-101

(**) Localized versions may exist with limited approvals and different part numbers. Contact your local sales representative.

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