

Ex Junction box for modular system

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

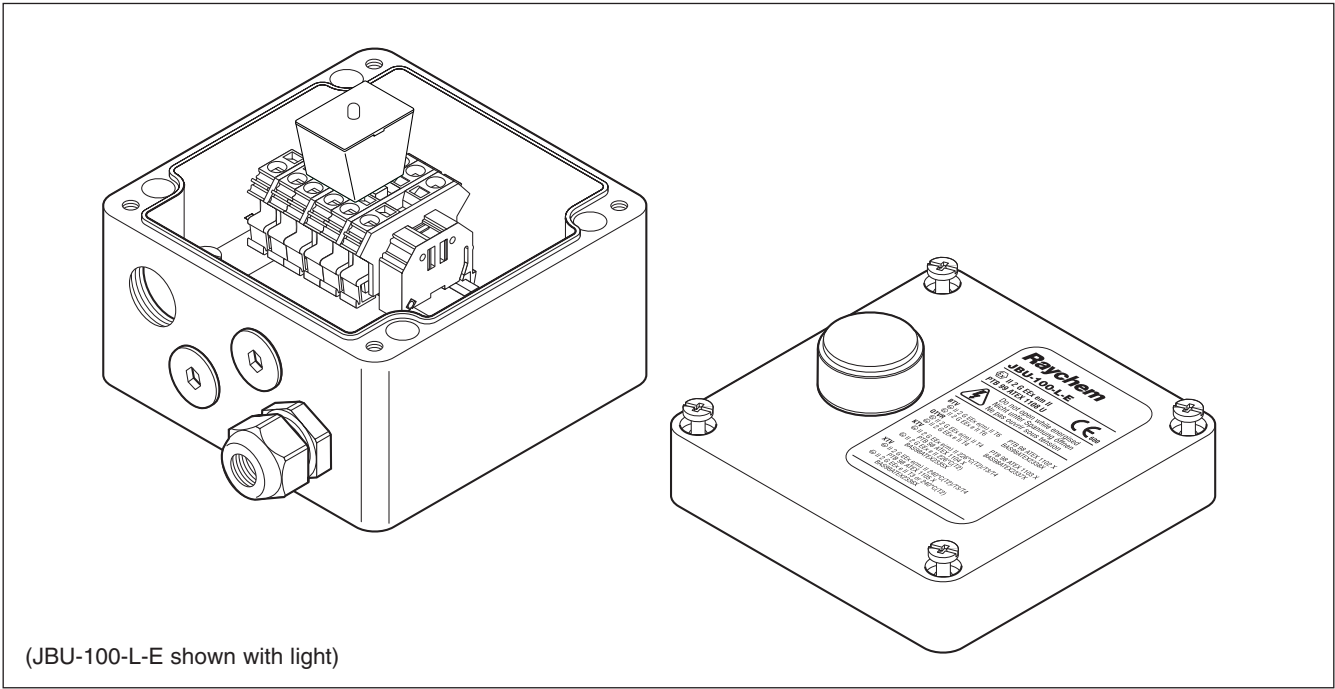
Innovative CAGE CLAMP® terminals from WAGO provide fast installation and safe, reliable, maintenance-free operation.

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

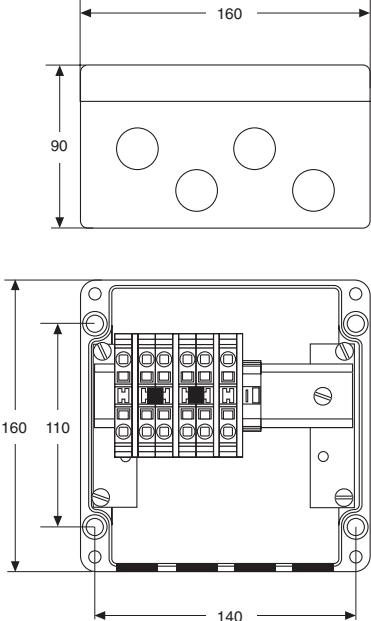
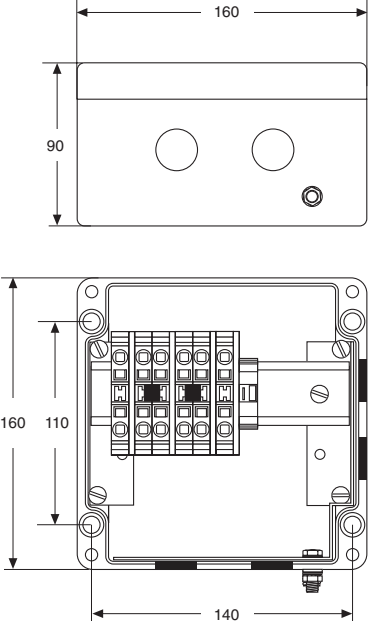
Connection kits (M25) and insulation entry kits have to be ordered separately.

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.



	JBU-100-E JBU-100-L-E	JBU-100-EP JBU-100-L-EP
Description	This box is for use in Europe and provides four M25 threaded entries, stopping plugs and one plastic power cable gland.	This box is for use in Europe and provides four M25 entries, an earthing plate and an external earth stud. It is designed for use with armoured power cables and metal glands.
Kit contents	1 junction box with terminals 1 light module (for -L only) 1 M25 gland for 8-17 mm diameter power cable 2 M25 stopping plugs	1 junction box with terminals with earth plate and external earth stud 1 light module (for -L only) 2 M25 stopping plugs
Approvals	PTB 99 ATEX 1108 U Ex II 2 G/D EEx e II IP 66 Ex II 2 G/D EEx em II IP 66 Ex e II T* Ex em II T* (for -L only) DNV approval DNV Certificates No. E-6967 and No. E-6968 *For T-rating, see heating cable or design documentation	PTB 99 ATEX 1108 U Ex II 2 G/D EEx e II IP 66 Ex II 2 G/D EEx em II IP 66 Ex e II T* Ex em II T* (for -L only) DNV approval DNV Certificates No. E-6967 and No. E-6968

	JBU-100-E JBU-100-L-E	JBU-100-EP JBU-100-L-EP
Description (nominal)		

Product specifications

Ingress protection	IP66	IP66
Entries	4 x M25	4 x M25
Min. ambient temperature	–50°C to +40°C (JBU-100-E) –40°C to +40°C (JBU-100-L-E)	–50°C to +40°C (JBU-100-EP) –40°C to +40°C (JBU-100-L-EP)
Terminals	WAGO 284 series (EEx e) 2 phase, 2 neutral, 2 ground	WAGO 284 series (EEx e) 2 phase, 2 neutral, 2 ground
Max. conductor size	10 mm ² stranded, 10 mm ² solid	10 mm ² stranded, 10 mm ² solid
Max. operation voltage	AC 550 V	AC 550 V
Max. current rating	40 A	40 A

Materials of construction

Enclosure, lid	Glass filled engineering polymers, carbon filled, black	Glass filled engineering polymers, carbon filled, 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

Accessories

Heating cable connection kits	C25-100, C25-21	C25-100, C25-21, C25-100-METAL
Insulation entry kit	IEK-25-04 or IEK-25-PIPE	IEK-25-04 or IEK-25-PIPE
Power cable gland	GL-36-M25 (included)	GL-38-M25-METAL (optional)
Junction box support bracket (optional)	SB-100, SB-101	SB-100, SB-101

Ordering details

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)