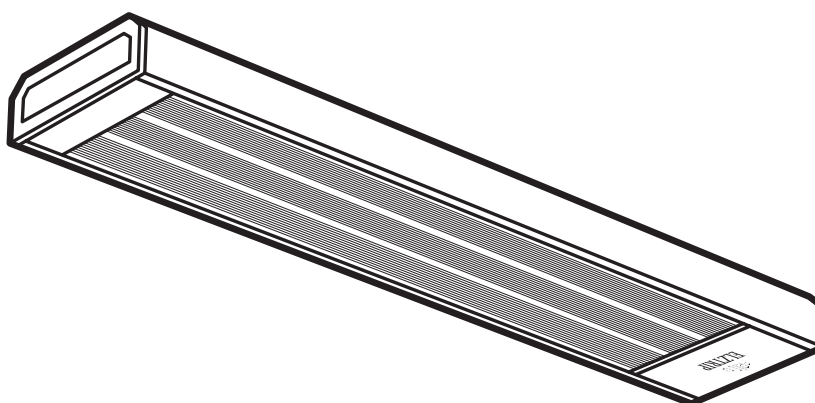


Original instructions  
**Elztrip EZ100**



EN .... 9

SE ... 12

NO ... 15

FR ... 18

DE ...21

NL ...24

ES ... 27

PL ... 30

RU ... 33

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## Elztrip EZ100

**EN** Ecodesign Regulation (EU) 2015/1188 concerning local space heaters does not apply to all application areas. The Regulation applies when an installation is intended to provide thermal comfort for people in the premises. The Regulation does not apply to heating installations of a more technical nature e.g. in engineering/utility rooms, in production processes, frost protection, etc. The Regulation also does not apply to installations in vehicles, offshore or outdoors.

Many of Frico's products can be used as both local space heaters (as defined in (EU) 2015/1188) and for technical heating purposes. **It is up to the installer responsible for the installation to assess whether the Ecodesign Regulation is applicable or not.** Control solutions for installations not covered by the Ecodesign Regulation are listed in a separate table.

**SE** EU-kommissionens Ecodesignförförordning (EU) 2015/1188 för rumsvärmare skiljer på användningsområden för olika installationer. Förförordningen gäller då installationen är avsedd att skapa värmekomfort för människor som vistas i lokalen. Förförordningen gäller inte för installationer som är avsedda för värmebehov av mer teknisk art såsom grundvärme i maskinrum, värmebehov i produktionsprocesser, frostskydd, etc. Förförordningen gäller heller inte installationer i fordon, offshore eller utomhus.

Många av Fricos produkter kan användas både som rumsvärmare (definierade enligt (EU) 2015/1188) och som värmare för tekniska behov. **Vid installationstillfället är det upp till ansvarig installatör att bedöma om Ecodesignförförordningen är applicerbar eller inte.** Regleringslösningar för installationer som inte omfattas av Ecodesignförförordningen redovisas i separat tabell.

**NO** Økodesigndirektivet (EU) 2015/1188 som gjelder varmeovner, gjelder ikke alle bruksområder. Direktivet gjelder når en installasjon har som formål å skape en komfortabel temperatur for personene på stedet. Direktivet gjelder ikke til oppvarmingsinstallasjoner av det mer tekniske slaget, som i produktutviklingsrom, bruksområder, i produksjonsprosesser, frostbeskyttelse etc. Direktivet gjelder heller ikke installasjoner som befinner seg i kjøretøy, offshore eller utendørs.

Mange av Fricos produkter kan brukes både som varmeovner (som definert i 2015/1188) og til formål innen teknisk oppvarming. **Det er opp til installatøren som er ansvarlig for installasjonen å vurdere hvorvidt Økodesigndirektivet er gjeldende eller ikke.** Regulerings-løsninger for installasjoner som ikke dekkes av Økodesigndirektivet står oppført i en separat tabell.

**FR** La réglementation relative à l'écoconception (UE) 2015/1188 concernant les dispositifs de chauffage décentralisés ne s'applique pas à tous les cas. Elle s'applique lorsqu'une installation est destinée à assurer un confort thermique à des personnes dans les locaux. Elle ne s'applique pas au chauffage d'installations d'une nature plus technique (salles des machines/de service, processus de production, protection contre le gel, etc.). Elle ne s'applique pas non plus aux installations qui se trouvent à bord de véhicules, offshore ou en extérieur.

De nombreux produits Frico peuvent être utilisés comme des dispositifs de chauffage décentralisés (tel que défini dans la réglementation (UE) 2015/1188) et à des fins de chauffage technique. **Il appartient à l'installateur de déterminer si la réglementation relative à l'écoconception s'applique ou non.** Les solutions de contrôle pour les installations qui ne sont pas couvertes par la réglementation relative à l'écoconception sont présentées dans un tableau distinct.

**DE** Die Ökodesign-Verordnung (EU) 2015/1188 über Einzelraumheizgeräte trifft nicht auf alle Anwendungsgebiete zu. Die Verordnung findet Anwendung, wenn eine Installation dazu bestimmt ist, innerhalb eines Raumes ein für den Menschen angenehmes Temperaturniveau zu erreichen. Die Verordnung findet keine Anwendung auf Heizungsinstallationen technischer Natur, z. B. in Technik-/Wirtschaftsräumen, bei Produktionsprozessen, für Frostschutz usw. Die Verordnung findet ebenfalls keine Anwendung bei Installationen in Fahrzeugen, Offshoreanlagen und Außenbereichen.

Viele Frico-Produkte können sowohl als Einzelraumheizgerät (gemäß Definition nach (EU) 2015/1188) als auch für technische Heizprozesse eingesetzt werden. **Der Monteur, der für die Installation verantwortlich ist, muss beurteilen, ob die Ökodesign-Verordnung anwendbar ist oder nicht.** Steuerungslösungen für Installationen, die nicht unter die Ökodesign-Verordnung fallen, sind in einer separaten Tabelle aufgelistet.

**FI** Paikallisia tilalämmittämiä käsittelevä Ecodesign-asetus (EU) 2015/1188 ei kata kaikkia käyttökohteita. Asetus on voimassa ainoastaan silloin, kun lämmittimellä halutaan parantaa tiloissa olevien ihmisten lämpömukavuutta. Asetus ei koske teknisempiä lämmitysjärjestelmiä esim. konehuoneissa/kodinhuoltohuoneissa, tuotantoprosesseissa, pakkassuojausta, jne. Asetus ei myöskään koske ajoneuvoissa, laivoissa ja ulkona käytettäviä järjestelmiä.

Useita Frico-tuotteita voidaan käyttää sekä paikallisina tilalämmittiminä (asetuksen (EU) 2015/1188 mukaan) että teknisempiin lämmitystarkoituksiin. **Asentajan on määritettävä sovelletaanko asennukseen Ecodesign-asetusta vai ei.** Ohjausratkaisut asennuksiin, joita Ecodesign-asetus ei käsittele, on lueteltu erillisessä taulukossa.

**NL** De ecodesignverordening (EU) 2015/1188 betreffende lokale ruimteverwarmers is niet van toepassing op alle toepassingsgebieden. De verordening is van toepassing in het geval een installatie bedoeld is om mensen in het pand te voorzien van verwarmingscomfort. De verordening is niet van toepassing op verwarmingsinstallaties van een meer technische aard, bijv. in machinekamers/bijkeukens, in productieprocessen, ten behoeve van vorstbeveiliging, enz. De verordening is ook niet van toepassing op installaties in voertuigen, offshore of buiten.

Veel van de Frico-producten kunnen zowel gebruikt worden als lokale ruimteverwarmers (zoals gedefinieerd in (EU) 2015/1188) als ten behoeve van technische verwarmingsdoeleinden. **Het is de taak van de installateur die verantwoordelijk is voor de installatie om te bepalen of de ecodesignverordening wel of niet van toepassing is.** Regelsystemen voor installaties die niet vallen onder de ecodesignverordening worden vermeld in een aparte tabel.

**ES** El Reglamento (UE) 2015/1188 sobre diseño ecológico en relación con los aparatos de calefacción local no se aplica a todas las áreas de aplicación. El Reglamento se aplica cuando una instalación sirve para proporcionar confort térmico a las personas que están en el interior. El Reglamento no se aplica a instalaciones de calefacción de naturaleza más técnica, por ejemplo en salas de ingeniería o cuartos de servicio, en procesos de producción, protección contra heladas, etc. El Reglamento no se aplica a instalaciones en vehículos, en alta mar o al aire libre.

Muchos de los productos de Frico pueden utilizarse como aparatos de calefacción local (según se define en el Reglamento (UE) 2015/1188) y con fines de calefacción técnica. **Corresponde al instalador responsable de la instalación evaluar si se aplica el Reglamento sobre diseño ecológico o no.** Las soluciones de control para instalaciones no cubiertas por el Reglamento relativo a diseño ecológico se citan en otra tabla.

**PL** Jeżeli chodzi o miejscowe ogrzewacze pomieszczeń, Rozporządzenie (UE) 2015/1188 dotyczące ekoprojektu nie ma zastosowania do wszystkich obszarów zastosowa. Rozporządzenie to ma zastosowanie, kiedy zadaniem instalacji jest zapewnienie komfortu termicznego dla ludzi przebywających w budynkach. Rozporządzenie nie ma zastosowania do instalacji grzewczych mających charakter bardziej techniczny, np. w pomieszczeniach przemysłowych/gospodarczych, w procesach wytwórczych, jako ochrona przed zamarzaniem itp. Rozporządzenie nie ma również zastosowania do instalacji w pojazdach, morskich lub na zewnątrz.

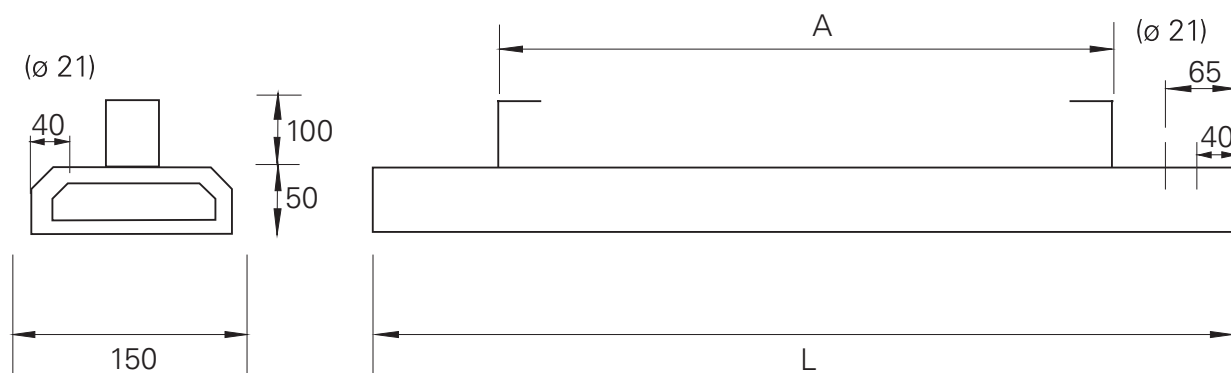
Wiele produktów firmy Frico może być używanych zarówno jako miejscowe ogrzewacze pomieszczeń (zgodnie z definicją w Rozporządzeniu (UE) 2015/1188), jak i w technicznych instalacjach grzewczych. **Do instalatora odpowiedzialnego za instalację należy ocena, czy Rozporządzenie dotyczące ekoprojektu ma zastosowanie czy nie.** Systemy sterowania dla instalacji nie objętych Rozporządzeniem dotyczącym ekoprojektu zostały podane w oddzielnej tabeli.

**RU** Положения требований Экодизайн (EU) 2015/1188 по приборам локального обогрева не охватывают все возможные области их применения. Требования Экодизайн применяются, когда установка предназначена для обеспечения теплового комфорта людей в помещениях. Эти Требования не распространяются на установки и системы обогрева более сложного технического характера, например, при обогреве технических, служебных и производственных помещений, при организации защиты от замерзания и т. д. Также требования Экодизайн не применяются в случае установки оборудования в транспортных средствах, сооружениях на море и на открытых площадках. Многие виды оборудования Frico могут применяться как в качестве приборов локального обогрева (как определено нормативами (EU) 2015/1188) так и в качестве составных частей обогревательных систем общественных и производственных зданий. Ответственность за определение необходимости применения или не применения требований Экодизайн несет организация, осуществляющая монтаж данного оборудования. Приборы управления для установок оборудования, не подпадающих под положения требований Экодизайн, перечислены в отдельной таблице.

**DK** Ecodesign-regulativet (EU) 2015/1188 vedrørende produkter til lokal rumopvarmning gælder ikke for alle anvendelsesområder. Regulativet gælder, når en installation har til hensigt at give varmekomfort for personer i lokalerne. Regulativet gælder ikke for varmeinstallationer af en mere teknisk egenskab, f.eks. i teknikrum eller lign., i produktionsprocesser, til frostbeskyttelse etc. Regulativet gælder heller ikke for installation i køretøjer, offshore eller udendørs.

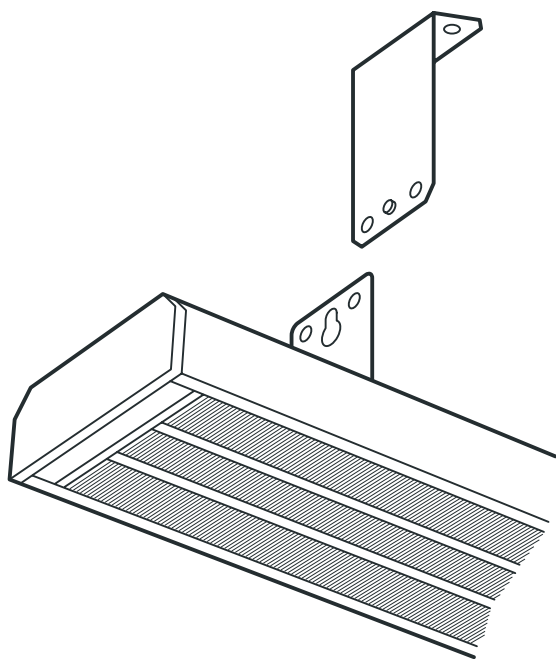
Mange af Fricos produkter kan benyttes både til lokal rumopvarmning (som defineret i (EU) 2015/1188) og til tekniske opvarmningsformål. **Det er op til den installatør, som er ansvarlig for installationen, at vurdere om Ecodesign-regulativet er gældende eller ej.** Styringsløsninger til installationer, der ikke er omfattet af Ecodesign-regulativet er anført i en separat tabel.

## Elztrip EZ100



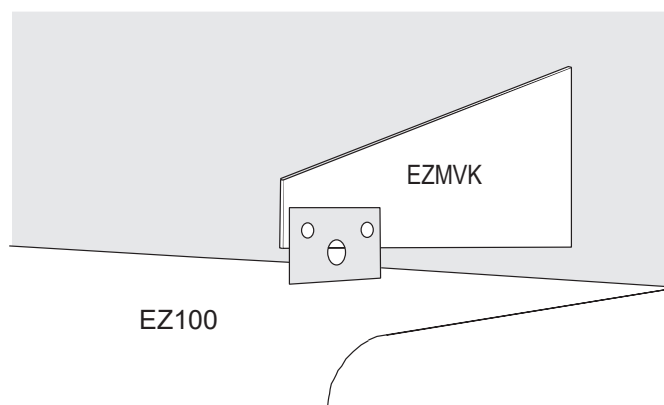
	L [mm]	A [mm]
<b>EZ106N</b>	870	655
<b>EZ111N</b>	1470	1252
<b>EZ115N</b>	1950	1731

Fig.1. Ceiling mounting



SE: Takmontage  
 NO: Takmontering  
 DE: Deckenmontage  
 RU: Установка на потолке  
 FR: Montage plafonnier  
 ES: Montaje del techo  
 NL: Montage aan het plafond  
 PL: Montaż podsufitowy  
 IT: Montaggio a soffitto  
 FI: Kattoasennus  
 DK: Loftsmøntering

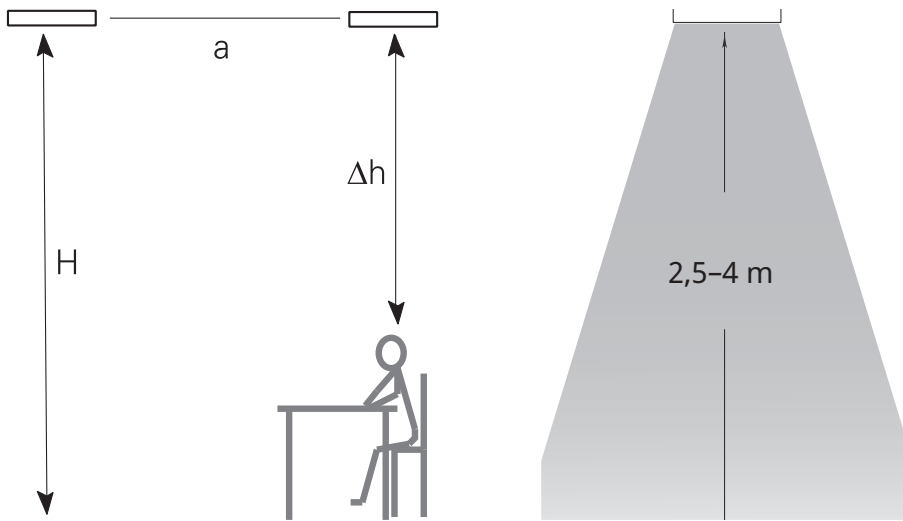
Fig.2. Wall mounting



SE: Væggmontage  
 NO: Veggmontering  
 DE: Wandmontage  
 RU: Установка на стене  
 FR: Installation murale  
 ES: Montaje en pared  
 NL: Wandinstallatie  
 PL: Montaż ścienny  
 IT: Installazione a parete  
 FI: Seinäasennus  
 DK: Vægmontering

# Elztrip EZ100

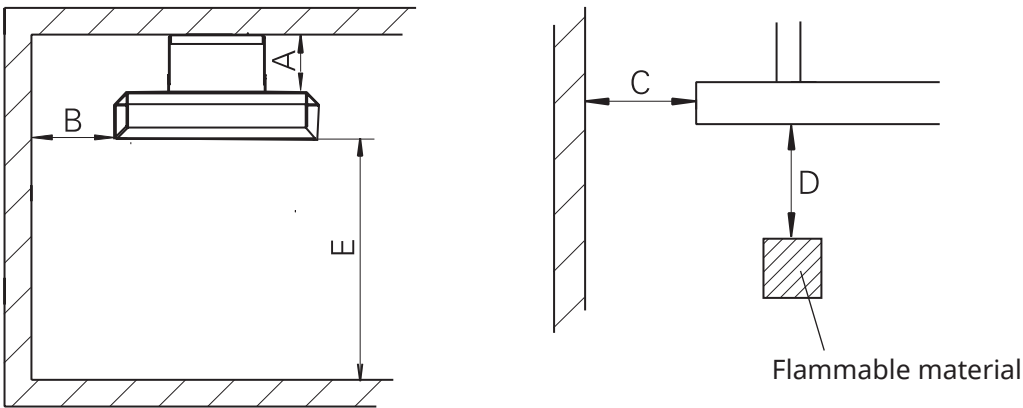
Fig.3. Positioning



$a < H$   
 $\Delta h = 1,5 - 2 \text{ m}$

- SE: Placering
- NO: Plassering
- DE: Aufstellung
- RU: Расположение
- FR: Positionnement
- ES: Ubicación
- NL: Plaatsing
- PL: Lokalizacja
- IT: Posizionamento
- FI: Sijoitus
- DK: Placering

Fig.4. Minimum distances



	<b>EZ100</b> [mm]
<b>A</b>	50
<b>B</b>	50
<b>C</b>	50
<b>D</b>	500
<b>E</b>	1800

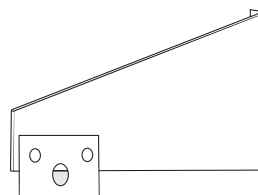
- SE: Minimiavstånd, Brännbart material
- NO: Minsteavstand, Brennbart materiale
- FR: Distances minimales, Matériau inflammable
- DE: Mindestabstand, Entflammbares Material
- NL: Minimale afstand, Brandbaar materiaal
- ES: Distancias mínimas, Material inflamable

- PL: Minimalne odległości, Materiał łatwopalny
- IT: Distanze minime, Materiali infiammabili
- RU: Минимальные расстояния при установке, Легковоспламеняемые материалы
- FI: Minimietäisyydet, Tulenarka materiaali
- DK: Minimumsafstande, Brændbart materiale

## Elztrip EZ100

### Accessories

Item number	Type
10004	<b>EZMVK</b> (2x)

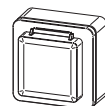


### Controls

Item number	Type	HxWxD [mm]
92790	<b>TAP16R</b>	87x87x53
205540	<b>TEP44</b>	87x87x55
93044	<b>RTX54</b>	82x88x25
205550	<b>SKG30</b>	115x85x40
211780	<b>PDK65</b>	102x70x50



TAP16R



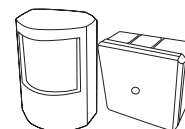
TEP44



RTX54



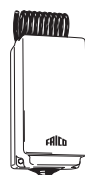
SKG30



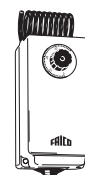
PDK65

### Controls for installations not covered by the Ecodesign Regulation (EU) 2015/1188

Item number	Type	HxWxD [mm]
5999	<b>KRT1900</b>	165x57x60
10214	<b>KRTV19</b>	165x57x60



KRT1900



KRTV19

SE: Regleringar för installationer som inte omfattas av Ecodesign, förordning (EU) 2015/1188

NO: Reguleringsløsninger for installasjoner som ikke dekkes av Økodesigndirektivet (EU) 2015/1188

FR: Régulations pour les installations non couvertes par la réglementation relative à l'écoconception (UE) 2015/1188

DE: Steuerungen für Installationen, die nicht unter die Ökodesign-Verordnung (EU) 2015/1188 fallen

NL: Regelaars voor installaties die niet vallen onder de ecodesignverordening (EG) 2015/1188

ES: Controles para instalaciones no cubiertas por el Reglamento (UE) 2015/1188 sobre diseño ecológico

PL: Systemy sterowania dla instalacji nie objętych Rozporządzeniem (UE) 2015/1188 dotyczącym ekoprojektu

RU: Приборы управления для установок оборудования, не подпадающих под нормы требований Экодизайн (EU) 2015/1188

FI: Ohjausratkaisut asennuksiin, joita Ecodesign-asetus (EU) 2015/1188 ei käsittele

DK: Stylinger til installationer der ikke er omfattet af Ecodesign-regulativet (EU) 2015/1188

## Elztrip EZ100

### Elztrip EZ100 (IP44)

Item number	Type	Heat output [W]	Voltage [V]	Amperage [A]	Max. surface temperature [°C]	Dimensions LxHxW [mm]	Weight [kg]
14894	<b>EZ106N</b>	600	230V~	2,6	320	870x50x150	3,2
14895	<b>EZ111N</b>	1100	230V~	4,6	320	1470x50x150	5,4
14896	<b>EZ115N</b>	1500	230V~	6,5	320	1950x50x150	7,0



#### EN: Heat output

SE: Värmeeffekt  
 NO: Varmeeffekt  
 FR: Puissance  
 DE: Heizleistung  
 NL: Verwarmingscapaciteit  
 ES: Potencia calorífica  
 PL: Moc grzewcza  
 IT: Stadi potenza  
 RU: Выходная мощность  
 FI: Lämmitysteho  
 DK: Varmeeffekt

#### EN: Voltage

SE: Spänning  
 NO: Spenning  
 FR: Tension  
 DE: Spannung  
 NL: Voltage  
 ES: Tensión  
 PL: Napięcie  
 IT: Tensione  
 RU: Напряжение  
 FI: Jännite  
 DK: Spænding

#### EN: Amperage

SE: Ström  
 NO: Strøm  
 FR: Intensité  
 DE: Stromstärke  
 NL: Stroomsterkte  
 ES: Intensidad  
 PL: Natężenie  
 IT: Corrente  
 RU: Ток  
 FI: Virta  
 DK: Strømstyrke

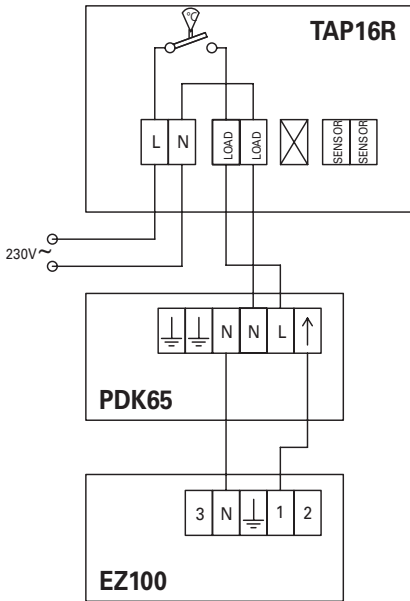
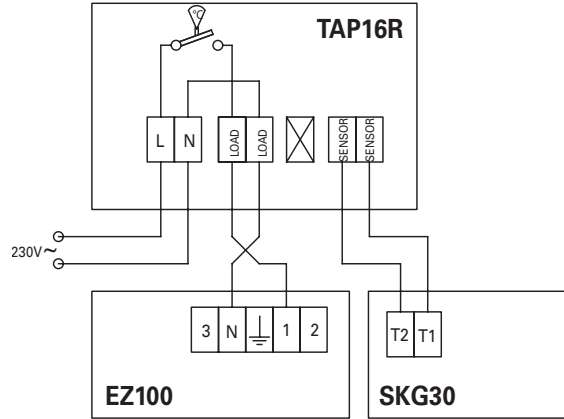
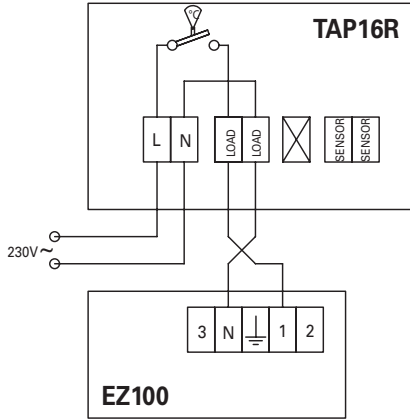
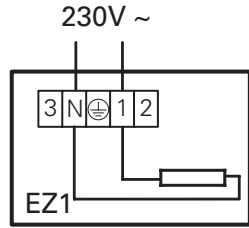
#### EN: Max. surface temperature

SE: Maximal yttemperatur  
 NO: Maksimal overflatetemp.  
 FR: Température max. de surface  
 DE: Max. Oberflächentemperatur  
 NL: Max. oppervlaktetemperatuur  
 ES: Temperatura superficial máxima  
 PL: Maksymalna temp. elementu grzejnego  
 IT: Temperatura max. superficiale  
 RU: Max. температура поверхности  
 FI: Suurin pintalämpötila  
 DK: Maksimal overfladetemperatur

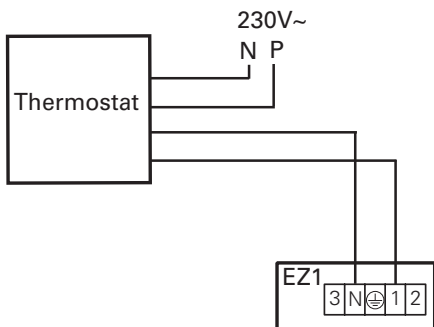
#### EN: Weight

SE: Vikt  
 NO: Vekt  
 FR: Poids  
 DE: Gewicht  
 NL: Gewicht  
 ES: Peso  
 PL: Masa  
 IT: Peso  
 RU: Bec  
 FI: Paino  
 DK: Vægt

Wiring diagrams



Controls for installations not covered by the Ecodesign Regulation (EU) 2015/1188





## Installation and operating instructions

### General Instructions

Read these instructions carefully prior to installation and use. Keep this manual for future reference.

*The product may only be used as set out in the assembly and operating instructions. The guarantee is only valid should the product be used in the manner intended and in accordance with the instructions.*

### Application

EZ100 is a single panel radiant heater with clean and simple design that blends well with electrical fittings. EZ100 is intended for total and supplementary heating as well as protection against cold draughts from windows in environments such as offices, shops, restaurants etc.

The recommended installation heights for the heater are shown on the introduction pages. Protection class: IP44.

### Operation

The panels have an operating temperature of up to 320 °C and the heat is radiated to cold surfaces. Max. surrounding temperature +30 °C.

### Mounting

Elztrip is installed horizontally on ceilings, in armature rails, on cables, suspended, etc. Fixtures for easy mounting on the ceiling are included. If the heater is suspended by wires, use the four mounting points on the heater. Bracket for wall mounting is available as an accessory. The distance between panels should not be greater than the height between panel and floor; i.e. (a) should be less than (H), see illustration on introductory page. For minimum distance, see diagrams on introductory pages. Ceiling fixtures and screws are found inside the connection box.

#### *Ceiling mounting*

1. Mount the ceiling fixtures in the ceiling.
2. Open the folded mounting hinges on the top of the heater and hang the heater on the ceiling fixtures. Fig.1. Make sure that the guide pegs are fitted into the holes, to ensure that the heater is fixed in a horizontal position.
3. Firmly tighten the screws when finished.

#### *Wall mounting*

Bracket for wall mounting is available as an accessory. (EZMVK)

1. Mount the wall brackets on the wall according to the dimensional drawing.
2. Open the folded mounting hinges on the top of the heater and hang the heater on the wall brackets. Fig.2. Make sure that the guide pegs are fitted into the holes, to ensure that the heater is fixed in a horizontal position.
3. Firmly tighten the screws when finished.

### Electrical installation

EZ100 is intended for permanent installation. Connection and serial connection of EZ100 is done with a maximum cable size of 4x2.5 mm<sup>2</sup> + earth.

The installation, which should be preceded by an isolator switch with a contact separation of at least 3 mm, should only be wired by a competent electrician and in accordance with the latest edition of IEE wiring regulations.

To access the connection box, unscrew and remove the end section. Electrical installation is performed via cable glands in the junction box on top of the unit (2 x Ø21 mm). The cable glands used must meet the protection class requirements.

### Control

When using this product as a local space heater according to Ecodesign Regulation (EU) 2015/1188, it must be supplemented with one of the following approved controls.

- TAP16R, electronic thermostat that includes:
  - Electronic room temperature control plus week timer
  - Room temperature control with open window detection
- TAP16R and SKG30, black bulb sensor that include:
  - Electronic room temperature control plus week timer
  - Room temperature control with open window detection
  - Black bulb sensor
- TAP16R and PDK65, presence detector that include:
  - Electronic room temperature control plus week timer
  - Room temperature control with open window detection

- Room temperature control with presence detection

The product can be controlled in a different way, e.g. by an overall control system (BMS), but in that case the responsibility lies with the installer to ensure that the control system is programmed to make the installation meet the requirements of Ecodesign Regulation (EU) 2015/1188.

### Start-up

When the unit is used for the first time or after a long period of non-use, smoke or an odour may result from dust or dirt which has collected on the element. This is completely normal and disappears after a short time.

### Maintenance

The power supply to the unit must be disconnected during all service, repair and maintenance work. Wait until the unit is cold. The unit has no moving parts so the maintenance requirement is small, but it must be kept clean and free from dust and dirt.

- There might be a rattling noise the first time of use when the surface coating of the panels is settling.
- In all electrical heating appliances, small clicks can occur due to movement when the material expands and contracts with changes in temperature.
- The product should always be handled with clean gloves. Make sure the product is clean before it is switched on.
- Presence of aerosols, lacquer, solvents, dust and similar may cause a coating on the product and discolor them.
- A slight change of colour of the product over time is normal. Incorrect installation or uncommonly high ambient temperature can cause increased discoloration. The output is not affected.

### Residual current circuit breaker

When the installation is protected by means of a residual current circuit breaker, which trips when the appliance is connected, this may be due to moisture in the heating element. When an appliance containing a heater element has not been used for a long period or stored in a damp environment, moisture can enter the element.

This should not be seen as a fault, but is simply rectified by connecting the appliance to the main supply via a socket without a safety

cut-out so that the moisture can be eliminated from the element. The drying time can vary from a few hours to a few days. As a preventive measure, the unit should occasionally be run for a short time when it is not being used for extended periods of time.

### Packaging

Packaging materials are chosen with consideration to the environment and are therefore recyclable.

### Handling of product at end of working life

This product may contain substances necessary for the functionality of the product but potentially dangerous for the environment. The product should not be disposed of mixed with general household waste but delivered to a designated collection point for environmental recycling. Please contact the local authority for further details of your nearest designated collection point.

### Safety

- *For all installations of electrically heated products a residual current circuit breaker 300 mA for fire protection should be used.*
- *The unit must not be fully or partially covered as overheating can result in a fire risk!*
- *The unit must not be placed directly under fixed wall sockets!*
- *The unit must not be used if the unit or the cord is damaged. Risk of injury!*
- *The cable and plug must not be placed inside the hot radiant area.*
- *This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.*
- *Children of less than 3 years should be kept away unless continuously supervised.*
- *Children aged from 3 years and less than 8 years shall only switch on/off the appliance provided that it has been placed or installed in its intended normal operating position and they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.*

- *Children aged from 3 years and less than 8 years shall not plug in, regulate and clean the appliance or perform user maintenance.*

**CAUTION — Some parts of this product can become very hot and cause burns. Particular attention has to be given where children and vulnerable people are present.**



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