

General Information

Heat Loss Calculator

This easy-to-use heat calculator can work out the heat requirements for your room.

Stage 1 Take the room dimensions in metres

Width m Length m Height m

calculate the volume ($W \times L \times H$) = cubic metres

Stage 2 Heating requirements per room type

Living Room / Dining Room / Bathroom volume

multiply volume as calculated in Stage 1 by 50 = Watts required

Bedroom volume

multiply volume as calculated in Stage 1 by 40 = Watts required

Kitchen / Hallway volume

multiply volume as calculated in Stage 1 by 30 = Watts required

Stage 3 Other factors for consideration

Is the property exposed?

Does the room have large areas of glazing?

Are the windows double glazed?

If factor 'a' applies, increase the Watts required at Stage 2 by 15%

If factor 'b' applies, increase the Watts required at Stage 2 by 20%

If factor 'c' applies, decrease the Watts required at Stage 2 by 10%

If factor 'a' and 'b' apply, increase the Watts required at Stage 2 by 35%

If factor 'a' and 'c' apply, increase the Watts required at Stage 2 by 5%

If factor 'b' and 'c' apply, increase the Watts required at Stage 2 by 10%

If factor 'a', 'b' and 'c' apply, increase the Watts required at Stage 2 by 25%

Please note that this calculator is provided as a guide only.

To convert Watts to BTUs, multiply by 3.412.

For an approximate conversion from $\Delta T50^{\circ}\text{C}$ to $\Delta T60^{\circ}\text{C}$, multiply the $\Delta T50^{\circ}\text{C}$ output by 1.2.

Terms and Conditions of Trading

A complete copy of the company's terms and conditions of trading are available on our website www.zehnder.co.uk

In addition to the Terms and Conditions, please note the following:

- All delivery times quoted are estimates only. Prices quoted include free delivery to the UK mainland for radiators and towel rails. Orders for valves, fans, elements and accessories with a net order value under £100 are subject to a processing charge of £10 + VAT
- Returned goods for credit will only be accepted by prior arrangement (confirmed in writing), within 8 weeks of the date of despatch, where the goods are part of our stock range and where the goods are as fit for sale on their return as they were on delivery. If goods have been fitted this is deemed as acceptance of their quality. We cannot accept the return of non-stock goods.
- Damaged products are to be reported to us within 3 days of delivery. Zehnder cannot be held responsible for any damage after onward delivery. Faulty products are to be reported to us as soon as possible. If the items have been installed, you are in acceptance of it's condition and Zehnder reserve the right to refuse credit.
- You are responsible for ensuring the suitability, conformity and interoperability of the goods or indicative system design suggestions provided by us with your heating system and your design requirements. It is important that you undertake such verification with an appropriately qualified expert third party
- Where a radiator is returned as no longer required and an alternative radiator is not ordered a 25% restocking fee plus a £10 administration fee will be charged (unless the goods were defective when delivered). If a radiator is no longer required but an alternative radiator is ordered, either a restocking fee of £25 or 25% of the value (whichever is the lower) will be charged, but the administration fee will be waived.
- We warrant the goods for a period of 5 years for steel radiators, 10 years for stainless steel and aluminium radiators, 2 years for radiator electrical componentry and 3 years for extractor fans, from the date of delivery. The warranty is subject to correct installation to current standards/water treatments and use.
- Radiators with steel components (other than stainless steel) must not be installed on a domestic hot water circuit. If a stainless steel or brass product is to be installed on the domestic hot water circuit, a check should be made with the local water authority to ensure that dezincification is not a common occurrence.
- Artificially softened water should not be used to fill radiators. For FAQ radiator/water-related information, visit www.fernox.com.
- All measurements given in this brochure are nominal dimensions only.
- All brochures, catalogues and other promotional materials are to be treated as illustrative only. Their contents form no part of any contract between us and you should not rely on them in entering into any contract with us. Any typographical, clerical or other error or omission in any literature, quotation, price list, or other document issued by us will be subject to correction without liability being incurred by us.
- Orders for non-stock items such as made to measure and made to order (as identified as such in our brochure for Zehnder which was in circulation at the date you placed the relevant order) which we have accepted cannot be varied and/or cancelled once manufacturing has begun or special material and/or equipment has been ordered by us. Any variation with the order has to be communicated within 24 hours of the order acceptance.
- All VAT calculated at 20%

Bathroom Zones

The diagram below shows a bathroom divided into four clear zones: 0, 1, 2 and outside zones. Please note, the diagram is only a guide and is NOT to scale. Please refer to I.E.E Wiring Regulations (BS 7671:2008) for detailed information.

Zone 0: Inside the bath

Zone 1: Area above bath / shower tray to a height of 2.25m.

Minimum rating of IPX4 should be used unless water spray will be present. In this case, a rating of IPX5 should be used.

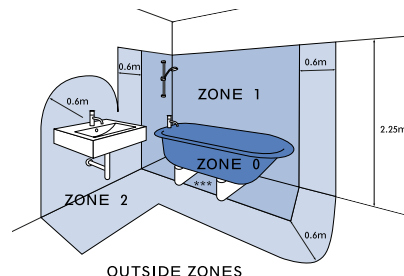
Zone 2: Area stretching 0.6m from zone 1. Minimum rating of IPX4 should be used here.

Outside Zones: No water spray is likely to be used here, therefore, no IP rating is required.

IP Rating: "X" denotes level security against dust particles. Second digit denotes level of "watertightness".

IPX5: Protected against low pressure water jets

IPX4: Protected against splashing water



OUTSIDE ZONES

Frequently Asked Questions

Why is it important with some of the models that the flow is in a specific connection position?

Some of the design radiators have baffles inside the water-carrying tubes to divert the water flow around the whole radiator to maximize efficiency. Check the installation instructions to see if this applies to the radiator before it is installed.

What is an inhibitor and why should it be used in a central heating system?

An inhibitor is a chemical mix that should be added to the central heating system water to prevent corrosion and to prolong the life of the system. When new or additional radiators are being installed, the system should be drained, cleaned and flushed in accordance with BS7593 and a good quality chemical water treatment inhibitor should be added to the heating system.

Can steel and aluminium radiators be put on the same system?

Yes, as long as an inhibitor for mixed metal systems is used. In reality, most systems are already mixed metal, as many have aluminium heat exchangers in the boiler, plus copper pipes and steel radiators already installed.

Why is it important to use dual energy installations correctly?

Simultaneous use of the electrical element and the central heating system should be avoided as this will shorten the life of the element and invalidate the warranty. Correct use is as follows: In summer when the central heating is switched off, vent the radiator to ensure there is no air present, then close the flow valve (only) and activate the immersion heater. In winter, de-activate the immersion heater and open the flow valve.

What is the difference between outputs listed at $\Delta T60^{\circ}\text{C}$ and $\Delta T50^{\circ}\text{C}$?

$\Delta T60^{\circ}\text{C}$ allows for older boiler systems, whilst $\Delta T50^{\circ}\text{C}$ is the new European testing standard for modern boilers, such as condensing boilers, which have lower flow and return temperatures. Therefore, to avoid radiators being incorrectly sized, it is important to know the system's temperatures and take them into consideration.

Colours & Finishes

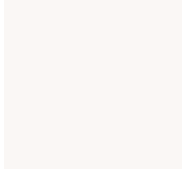
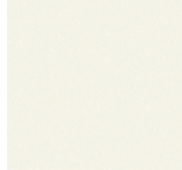
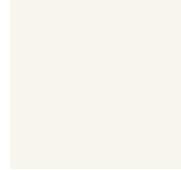


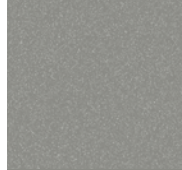
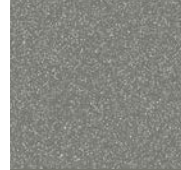





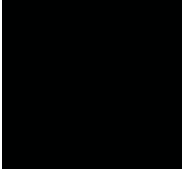



Roda Spa in Flame Red (Electric)

Zehnder's new Architectural, Tonic and Natural categories provide three coherent colour schemes encompassing all the related colours and shades. Organised variety, which helps you to find the right colour for your designer radiator, your environment and your personality.

Colours & Finishes

Architectural

				
White 0556	White Quartz 0521	Pure White RAL 9010 / 9010*	Inox Look 0332*	
				
White Aluminium 9006*	Titane 0335*	Grey Aluminium 9007*	Anthracite 0346	Volcanic 0336
				
Anthracite Grey RAL 7016 / 7016*	Traffic Black RAL 9017 / 9017*	Jet Black RAL 9005 / 9005*	Matt Black 0557	Black Quartz 0550


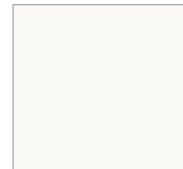
Tonic

				
Lemon 0515*	Traffic Yellow RAL 1023 / 1023*	Orange Quartz 0528	Flame Red RAL 3000 / 3003*	Ruby Red RAL 3000 / 3003*
				
Mauve 0517*	Violet 0518*	Strawberry NCS-S-2065-R20B / 3770	Dark Purple 0848	Amethyst Quartz 0516
				
Lichen NCS-S-2010-G60Y / 8723	Spring Green 0846	Pacific Blue 0519	Horizon Blue 0520*	Prussian Blue 0555*

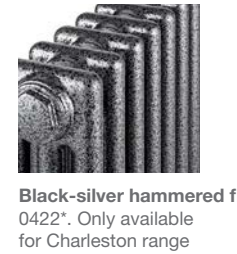
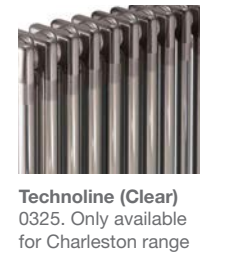
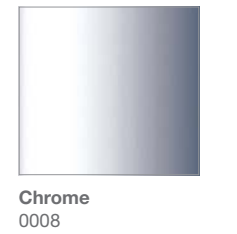
Natural

			
Edelweiss 0067	Cream RAL 9001 / 9001*	Pergamon 0081*	Jasmine 0072
			
Oyster White RAL 1013 / 1013*	Grey White RAL 9002 / 9002*	Chinchilla 0064	Manhattan 0077*
			
Natura 0035*	Bahama 0054*	Petal 0510*	Sand Quartz 0522
			
Beige Quartz 0523	Caramel Quartz 0511	Terracotta Quartz 0512	Gold Look 0514*
			
Brown Quartz 0529	Dark Brown 0847	Chocolate Brown RAL 8017 / 8017*	

Standard

	
Traffic White RAL 9016* All standard white radiators come in a gloss finish.	Traffic White RAL 9016 - matt version (incurs +25% colour surcharge)

Surfaces



This colour chart only represents the range of Zehnder colours available. It is not representative of the actual colour finish. Please ask for a colour chart from which to confirm your selection before placing your order.

*These colours have a glossy finish, all others are matt.

Some colours/surface finishes are only available for selected products.

Deviations are possible (shade and shine) due to the different manufacturing techniques used for the original colours. RAL and NCS are manufacturer designations.

Colours and special finishes

Please note: due to the limitations of the printing process, the colours shown here are not exact representations. If you wish to order a radiator in one of these colours, please ask to see our separate colour chart or ask for a sample before placing your order (samples can be ordered via our website).

White

Traffic White is a brilliant white designed to complement the finish of modern sanitaryware. Pure White is softer, and usually preferred for rooms other than bathrooms where Traffic White is considered too harsh. White Quartz and Matt White bring a contemporary, textured finish to interiors.

0916 Traffic White *
RAL 9016

9010 Pure White *
RAL 9010

0521 White Quartz

0556 Matt White

Bisque colours

Not all our radiators are available in colours. Please consult the tables on pages 166 – 167.

0510 Petal *

0081 Pergamon *

0072 Jasmin

0035 Natura *

0501 Moka *

0558 Ice Grey Matt

0064 Chinchilla

0503 Mint *

0040 Agals *

0509 Light Green *

0517 Mauve *

0506 Rose *

0515 Lemon *

0505 Sun Yellow *

1023 Traffic Yellow *
RAL 1023

3770 Strawberry
NCS S 2065-R20B

3000 Flame Red *
RAL 3000

0507 Lila *

0518 Violet *

0508 Nature Green *

5743 Steel Blue
NCS S 2055-B10G

5017 Traffic Blue *
RAL 5017

0555 Prussian Blue *

8017 Chocolate Brown *
RAL 8017

9005 Jet Black *
RAL 9005

* These colours have a gloss finish. The remainder have a matt finish.

Please note: due to the limitations of the printing process, the finishes shown here are not exact representations. If you wish to order a radiator in one of these colours, please ask to see our separate colour chart or ask for a sample before placing your order.

Special paint finishes

0371 Aluminium *

0356 Anthracite *

0336 Volcanic

0557 Matt Black

0335 Titane

9007 Grey Aluminium *

0332 Inox Look *

0514 Gold *

0325 Lacquered bare metal

0522 Sand Quartz

0523 Beige Quartz

0529 Brown Quartz

0511 Caramel Quartz

0512 Terracotta Quartz

0516 Amethyst Quartz

0550 Black Quartz

Our colour range complements most interiors but for those who require that bit extra we also offer a colour matching service which can provide close matches to popular paint brands such as Farrow & Ball, Little Greene and Dulux as well as international ranges such as NCS and RAL. Price on application.

Please turn over to see other finishes for aluminium radiators and towel rails

Colours and special finishes

Please note: due to the limitations of the printing process, the colours shown here are not exact representations. If you wish to order a radiator in one of these colours, please ask to see our separate colour chart or ask for a sample before placing your order (samples can be ordered via our website).

Finishes exclusive to aluminium radiators

All four finishes available with Blok, Svelte, and Lissett. Tetro available in Champagne and Marron only.



SAP10020 Champagne *



SW208F Marron *



M3000L Nickel Look *



SBP9010 White Sable

Deluxe colour range

These Deluxe finishes are available to order on the Balmoral, Buckingham and Osbourne towel rails.



PBHO Polished Brass



ABHO Antique Brass



BZHO Antique Bronze



ACHO Antique Copper



PCHO Polished Copper



BCHO Brushed Copper



AGHO Antique Gold



DGHO Dark Gold



BNHO Bright Nickel



the world is your lobster