

Project name Tea Room, Glenmore, Co. Kilkenny

Date 28/07/2025

Dossier nr. 563938e6-6bb7-11f0-a8d7-052f50a613f8

 **Daikin professional**

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 **Customer**

Citywest
Ireland

 **Location**

D24 Citywest
Ireland

HEATING SOLUTION NAVIGATOR REPORT



Solution

Daikin Altherma 3 R F (4-16)

1. Solution overview

Heating

Required heating capacity	Min. Ambient (-3,5 °C): 5,9 kW (5.908,0 W)
Leaving water temperature range heating	35,0 °C - 45,0 °C
% covered by Heat Pump	100,0 %
% covered by BUH	0,0 %
Heating capacity of heat pump	Min. Ambient (-3.5 °C): 7,3 kW (7280 W)
Backup heater capacity	6,0 kW
Spare capacity in heating, including BUH	7,4 kW
Energy consumption space heating	3.336,6 kWh
Yearly space heating thermal energy	12.017,5 kWh
Tank size	230,0 L
Yearly DHW thermal energy	
Space heating seasonal efficiency	3,6
Annual total energy cost	700,68 € (Electricity 0,21 €/kWh)
Heating CO2 emission	747,4 Kg

Energy label

Space heating
Domestic hot water

2. Highlights

- **High performance** - The 3rd Generation of Daikin Altherma is taking you beyond the imaginable with its performance: A+++ Seasonal efficiency and operation range down to -25°C.
- **Easy to install** - The floor standing unit only has a 0,36 m² footprint and you can choose for white or silver-grey colour.
- **Easy to control** - Fully digital, the Daikin Altherma 3 can be controlled from everywhere with an app or a home control system.
- **Easy commissioning** - Configuration can take place remotely, with on site upload of settings by SD card or USB stick allowing configuration in maximum 9 easy steps.

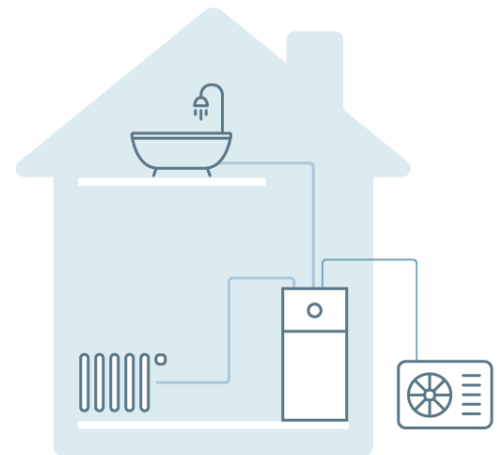
3. Description

Outdoor unit:

- R32 refrigerant with low ground warming potential
- New square out blow grill
- Painted bottom plate to avoid corrosion
- Increase surface heat exchanger for higher performance
- New handling method with slings and handle
- Suction grill factory mounted
- Improved supporting feed with quick fix clamps
- New designed fan motors

Indoor unit:

- Combined domestic hot water tank and heat pump
- All hydraulic components included
- Easy access to PCB board and hydraulic components
- Small installation footprint of 600x600mm
- Integrated back-up heater



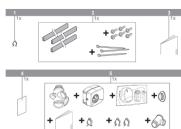
Application scheme

4. Contents

Equipment list

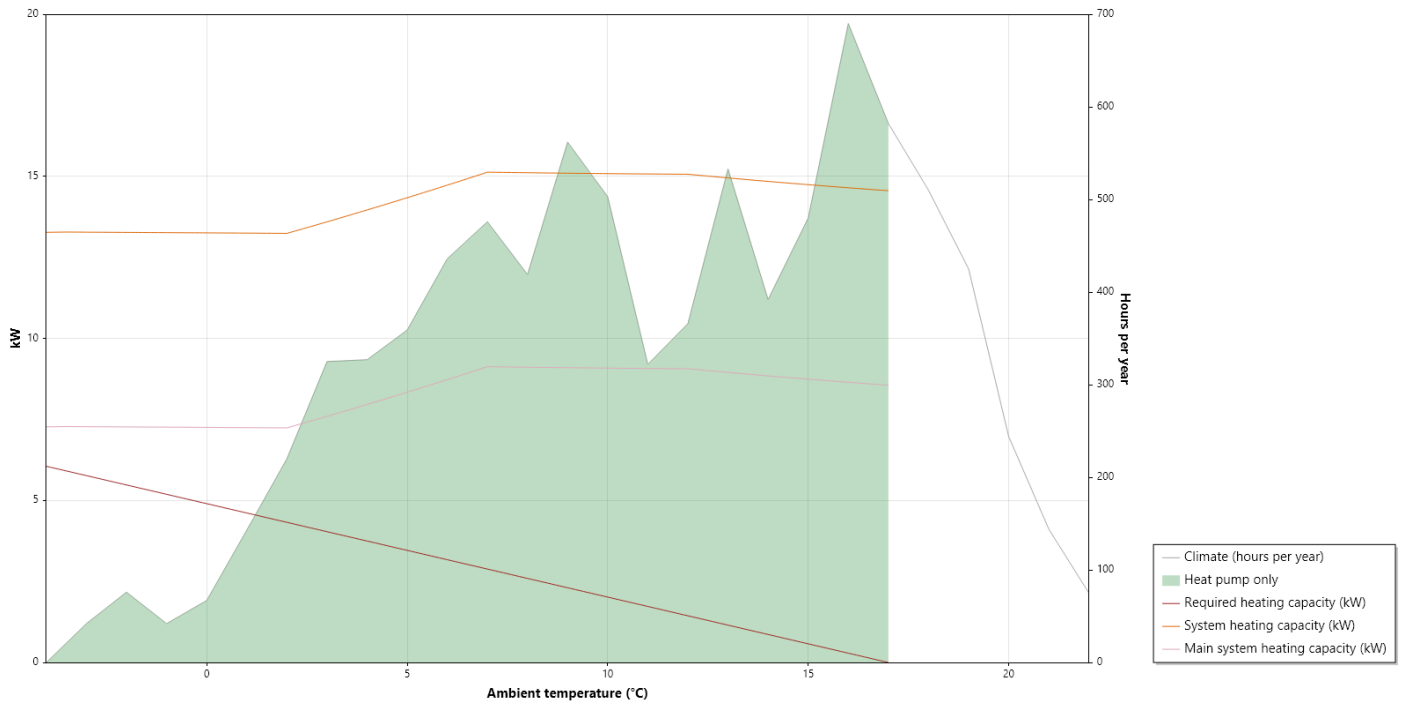
Part name	Quantity	Unit type
EHVH08S23E6V	1	Indoor
ERGA08EVH7	1	Outdoor

Option list

Part name	Quantity	Description
	1	UK tank kit excl 2-WV (HT)
	1	Thermostat_(FieldSupply) 3rd party room thermostat (Schematic only)

Heating and cooling capacity for system

Space heating thermal energy	12017 kWh
Thermal output heatpump	12017 kWh
Thermal output sec. heater	0 kWh



Heating thermal output per source

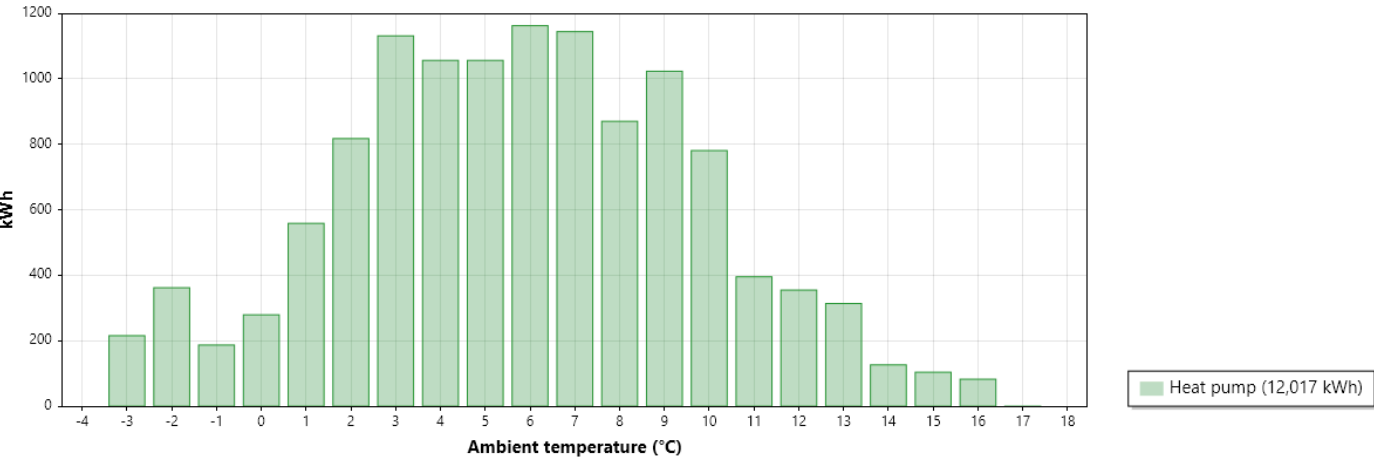


Temperature range heat pump

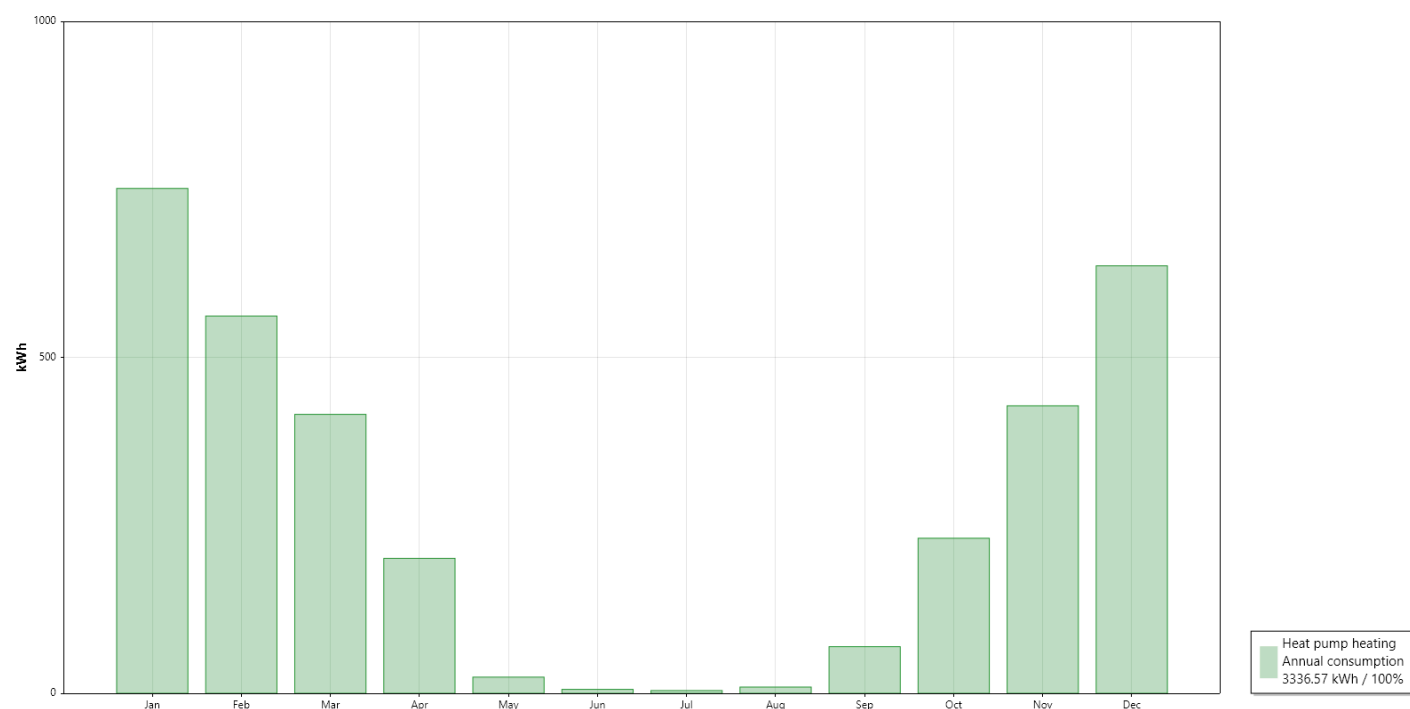
-3 à 17 °C

Percentage per year heat pump

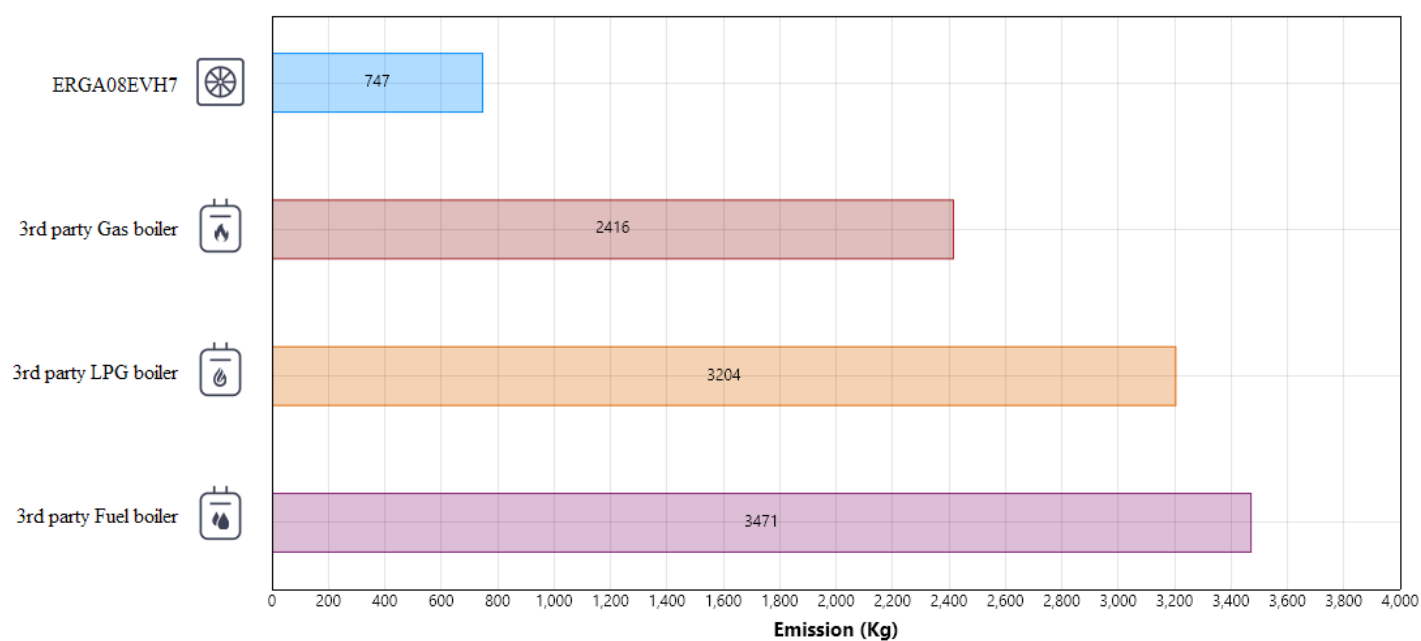
100 %



Energy consumption per month



Annual heating CO₂ emission



Room by room

Main zone

Heating type: Low temperature radiator

Room	Type	Surface	Age of room	Design temp.	Air change	Heat load
Tea Room	livingroom	58.15 m ²	between2005andpresent	21° C	1	1885.58W
Shop	livingroom	34.78 m ²	between2005andpresent	21° C	1	1186.3W
Kitchen	kitchen	17.84 m ²	between2005andpresent	18° C	1.5	452.85W
W.C.	toilet	9.2 m ²	between2005andpresent	18° C	1.5	416.15W
Store	utility	27.16 m ²	between2005andpresent	18° C	1	646.7W
Staff Changing	bedroom	13 m ²	between2005andpresent	18° C	1	377.12W
W.C	toilet	5.358 m ²	between2005andpresent	18° C	1.5	248.07W
Landing	hall	10.516 m ²	between2005andpresent	18° C	1	331.04W
Utility	utility	3.094 m ²	between2005andpresent	18° C	1	100.29W
Stairs	hall	9.66 m ²	between2005andpresent	18° C	1	263.49W
Main zone heat load						5907.59W

Total heat load	5907.59W
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Tea Room

Measurement: internal

Fabric loss	Material	Heat transfer to	Thermal bridges insulated	Length (m)	Width (m)	Height (m)	Area (m²)	U-value (W/m²K)	ΔT (°C)	Heat loss (Watts)
Ground floor	Current Building Regulations - New Build 2019 - GF (No UFH)	Through the ground	Yes				58.15	0.18	24.5	76.93
Internal ceiling	Intermediate Ceiling Timber with insulation	Through the roof space	Yes				58.15	0.32	6	100.48
External wall	Current Building Regulations - New Build 2019	Directly to the exterior	Yes	16.86		2.28	38.4408	0.18	24.5	138.83
Window	Current Building Regulations - New Build 2019						1.44	1.4	24.5	49.39
Window	Current Building Regulations - New Build 2019						1.44	1.4	24.5	49.39
Door	Current Building Regulations - New Build 2019						1.98	1.4	24.5	67.91
Door	Current Building Regulations - New Build 2019						2.1	1.4	24.5	72.03
Internal wall	Plasterboard with Studding	Utility	Yes	2.38		2.28	5.4264	1.72	3	28
Internal wall	Plasterboard with Studding	W.C.	Yes	4.19		2.28	9.5532	1.72	3	49.29
Internal wall	Plasterboard with Studding	Kitchen	Yes	4		2.28	9.12	1.72	3	47.06
Internal wall	Plasterboard with Studding	Shop	Yes	4.9		2.28	11.172	1.72	0	0
Sub total										781.23

Fabric heat loss is estimated based on external room dimension. If the room dimension input is internal, then a factor 1.15 will be multiplied.

Ventilation loss	Air changes per hour	Length (m)	Width (m)	Height (m)	Volume (m³)	Specific heat of air	ΔT (°C)	Heat loss (Watts)
	1				132.582	0.34	24.5	1104.41
Sub total								1104.41

Ventilation heat loss is estimated based on internal room dimension. If the room dimension input is external, then a factor 0.8 will be multiplied.

Result	Heat loss (Watts)
Fabric heat loss	781.23
ventilation heat loss	1104.41
Reheat load	0
Exposed location	0
Total heat loss	1885.64

Shop

Measurement: internal

Fabric loss	Material	Heat transfer to	Thermal bridges insulated	Length (m)	Width (m)	Height (m)	Area (m²)	U-value (W/m²K)	ΔT (°C)	Heat loss (Watts)
Ground floor	Current Building Regulations - New Build 2019 - GF (No UFH)	Through the ground	Yes				34.78	0.18	24.5	46.01
Internal ceiling	Intermediate Ceiling Timber with insulation	Store	Yes				34.78	0.32	3	33.39
External wall	Current Building Regulations - New Build 2019	Directly to the exterior	Yes	12.7		2.3	29.21	0.18	24.5	103.94
Window	Current Building Regulations - New Build 2019						1.44	1.4	24.5	49.39
Door	Current Building Regulations - New Build 2019						4.2	1.4	24.5	144.06
Internal wall	Plasterboard with Studding	Stairs	Yes	2.3		2	4.6	1.72	3	23.74
Internal wall	Plasterboard with Studding	Kitchen	Yes	5		2	10	1.72	3	51.6
Internal wall	Plasterboard with Studding	Tea Room	Yes	5.36		2	10.72	1.72	0	0
Sub total										519.95

Fabric heat loss is estimated based on external room dimension. If the room dimension input is internal, then a factor 1.15 will be multiplied.

Ventilation loss	Air changes per hour	Length (m)	Width (m)	Height (m)	Volume (m³)	Specific heat of air	ΔT (°C)	Heat loss (Watts)
	1				79.994	0.34	24.5	666.35
Sub total								666.35

Ventilation heat loss is estimated based on internal room dimension. If the room dimension input is external, then a factor 0.8 will be multiplied.

Result	Heat loss (Watts)
Fabric heat loss	519.95
ventilation heat loss	666.35
Reheat load	0
Exposed location	0
Total heat loss	1186.3

Kitchen

Measurement: internal

Fabric loss	Material	Heat transfer to	Thermal bridges insulated	Length (m)	Width (m)	Height (m)	Area (m²)	U-value (W/m²K)	ΔT (°C)	Heat loss (Watts)
Ground floor	Current Building Regulations - New Build 2019 - GF (No UFH)	Through the ground	Yes				17.84	0.18	21.5	20.71
Internal ceiling	Intermediate Ceiling Timber with insulation	Staff Changing	Yes				17.84	0.32	0	0
Internal wall	Plasterboard with Studding	Shop	Yes	5		2.18	10.9	1.72	-3	-56.24
Internal wall	Plasterboard with Studding	Tea Room	Yes	3.03		2	6.06	1.72	-3	-31.27
Internal wall	Plasterboard with Studding	W.C.	Yes	3.9		2	7.8	1.72	0	0
External wall	Current Building Regulations - New Build 2019	Directly to the exterior	Yes	2.3		2	4.6	0.18	21.5	7.24
Door	Current Building Regulations - New Build 2019						2.73	1.4	21.5	82.17
Internal wall	Plasterboard with Studding	Stairs	Yes	4.2		2.18	9.156	1.72	0	0
Sub total										26

Fabric heat loss is estimated based on external room dimension. If the room dimension input is internal, then a factor 1.15 will be multiplied.

Ventilation loss	Air changes per hour	Length (m)	Width (m)	Height (m)	Volume (m³)	Specific heat of air	ΔT (°C)	Heat loss (Watts)
	1.5				38.8912	0.34	21.5	426.44
Sub total								426.44

Ventilation heat loss is estimated based on internal room dimension. If the room dimension input is external, then a factor 0.8 will be multiplied.

Result	Heat loss (Watts)
Fabric heat loss	26
ventilation heat loss	426.44
Reheat load	0
Exposed location	0
Total heat loss	452.44

W.C.

Measurement: internal

Fabric loss	Material	Heat transfer to	Thermal bridges insulated	Length (m)	Width (m)	Height (m)	Area (m²)	U-value (W/m²K)	ΔT (°C)	Heat loss (Watts)
Ground floor	Current Building Regulations - New Build 2019 - GF (No UFH)	Through the ground	Yes				9.2	0.18	21.5	10.68
Roof	Current Building Regulations - New Build 2019	Directly to the exterior	Yes				9.2	0.16	21.5	31.65
Window	Current Building Regulations - New Build 2019						1.4	1.4	21.5	42.14
External wall	Current Building Regulations - New Build 2019	Directly to the exterior	Yes	6.7		2.4	16.08	0.18	21.5	53.87
Window	Current Building Regulations - New Build 2019						1.08	1.4	21.5	32.51
Window	Current Building Regulations - New Build 2019						1.08	1.4	21.5	32.51
Internal wall	Plasterboard with Studding	Kitchen	Yes	4.08		2.4	9.792	1.72	0	0
Internal wall	Plasterboard with Studding	Tea Room	Yes	4.2		2.4	10.08	1.72	-3	-52.01
Internal wall	Plasterboard with Studding	Utility	Yes	1.3		2.4	3.12	1.72	0	0
Sub total										174.04

Fabric heat loss is estimated based on external room dimension. If the room dimension input is internal, then a factor 1.15 will be multiplied.

Ventilation loss	Air changes per hour	Length (m)	Width (m)	Height (m)	Volume (m³)	Specific heat of air	ΔT (°C)	Heat loss (Watts)
	1.5				22.08	0.34	21.5	242.11
Sub total								242.11

Ventilation heat loss is estimated based on internal room dimension. If the room dimension input is external, then a factor 0.8 will be multiplied.

Result	Heat loss (Watts)
Fabric heat loss	174.04
ventilation heat loss	242.11
Reheat load	0
Exposed location	0
Total heat loss	416.15

Store

Measurement: internal

Fabric loss	Material	Heat transfer to	Thermal bridges insulated	Length (m)	Width (m)	Height (m)	Area (m²)	U-value (W/m²K)	ΔT (°C)	Heat loss (Watts)
Internal floor	Intermediate Floor Timber with insulation	Shop	Yes				27.16	0.32	-3	-26.07
Roof	Current Building Regulations - New Build 2019	Directly to the exterior	Yes				27.16	0.16	21.5	93.43
External wall	Current Building Regulations - New Build 2019	Directly to the exterior	Yes	11		2.3	25.3	0.18	21.5	97.91
Internal wall	Plasterboard with Studding	Landing	Yes	2.4		2.3	5.52	1.72	0	0
Internal wall	Plasterboard with Studding	Staff Changing	Yes	3.4		2.3	7.82	1.72	0	0
Internal wall	Plasterboard with Studding	W.C	Yes	1.52		2.3	3.496	1.72	0	0
Sub total										190.06

Fabric heat loss is estimated based on external room dimension. If the room dimension input is internal, then a factor 1.15 will be multiplied.

Ventilation loss	Air changes per hour	Length (m)	Width (m)	Height (m)	Volume (m³)	Specific heat of air	ΔT (°C)	Heat loss (Watts)
	1				62.468	0.34	21.5	456.64
Sub total								456.64

Ventilation heat loss is estimated based on internal room dimension. If the room dimension input is external, then a factor 0.8 will be multiplied.

Result	Heat loss (Watts)
Fabric heat loss	190.06
ventilation heat loss	456.64
Reheat load	0
Exposed location	0
Total heat loss	646.7

Staff Changing

Measurement: internal

Fabric loss	Material	Heat transfer to	Thermal bridges insulated	Length (m)	Width (m)	Height (m)	Area (m²)	U-value (W/m²K)	ΔT (°C)	Heat loss (Watts)
Internal floor	Intermediate Floor Timber with insulation	Kitchen	Yes				13	0.32	0	0
Roof	Current Building Regulations - New Build 2019	Directly to the exterior	Yes				13	0.16	21.5	44.72
External wall	Current Building Regulations - New Build 2019	Directly to the exterior	Yes	4.63		2.3	10.649	0.18	21.5	33.55
Window	Current Building Regulations - New Build 2019						1.98	1.4	21.5	59.6
Internal wall	Plasterboard with Studding	W.C	Yes	3.03		2.3	6.969	1.72	0	0
Internal wall	Plasterboard with Studding	Store	Yes	3.88		2.3	8.924	1.72	0	0
Internal wall	Plasterboard with Studding	Landing	Yes	4.4		2.3	10.12	1.72	0	0
Sub total										158.55

Fabric heat loss is estimated based on external room dimension. If the room dimension input is internal, then a factor 1.15 will be multiplied.

Ventilation loss	Air changes per hour	Length (m)	Width (m)	Height (m)	Volume (m³)	Specific heat of air	ΔT (°C)	Heat loss (Watts)
	1				29.9	0.34	21.5	218.57
Sub total								218.57

Ventilation heat loss is estimated based on internal room dimension. If the room dimension input is external, then a factor 0.8 will be multiplied.

Result	Heat loss (Watts)
Fabric heat loss	158.55
ventilation heat loss	218.57
Reheat load	0
Exposed location	0
Total heat loss	377.12

W.C

Measurement: internal

Fabric loss	Material	Heat transfer to	Thermal bridges insulated	Length (m)	Width (m)	Height (m)	Area (m²)	U-value (W/m²K)	ΔT (°C)	Heat loss (Watts)
Internal floor	Intermediate Floor Timber with insulation	Kitchen	Yes	2.82	1.9		5.36	0.32	0	0
Roof	Current Building Regulations - New Build 2019	Directly to the exterior	Yes	2.82	1.9		5.36	0.16	21.5	18.44
Internal wall	Plasterboard with Studding	Store	Yes	1.9		2.3	4.37	1.72	0	0
External wall	Current Building Regulations - New Build 2019	Directly to the exterior	Yes	2.82		2.3	6.486	0.18	21.5	25.1
External wall	Current Building Regulations - New Build 2019	Directly to the exterior	Yes	1.9		2.3	4.37	0.18	21.5	11.34
Window	Current Building Regulations - New Build 2019						1.44	1.4	21.5	43.34
Internal wall	Plasterboard with Studding	Staff Changing	Yes	2.82		2.3	6.486	1.72	0	0
Sub total										112.96

Fabric heat loss is estimated based on external room dimension. If the room dimension input is internal, then a factor 1.15 will be multiplied.

Ventilation loss	Air changes per hour	Length (m)	Width (m)	Height (m)	Volume (m³)	Specific heat of air	ΔT (°C)	Heat loss (Watts)
	1.5	2.82	1.9	2.3	12.3234	0.34	21.5	135.13
Sub total								135.13

Ventilation heat loss is estimated based on internal room dimension. If the room dimension input is external, then a factor 0.8 will be multiplied.

Result	Heat loss (Watts)
Fabric heat loss	112.96
ventilation heat loss	135.13
Reheat load	0
Exposed location	0
Total heat loss	248.08

Landing

Measurement: internal

Fabric loss	Material	Heat transfer to	Thermal bridges insulated	Length (m)	Width (m)	Height (m)	Area (m²)	U-value (W/m²K)	ΔT (°C)	Heat loss (Watts)
Internal floor	Intermediate Floor Timber with insulation	Stairs	Yes	2.39	4.4		10.5	0.32	0	0
Roof	Current Building Regulations - New Build 2019	Directly to the exterior	Yes	2.39	4.4		10.5	0.16	21.5	36.12
Internal wall	Plasterboard with Studding	Staff Changing	Yes	4.4		2.3	10.12	1.72	0	0
External wall	Current Building Regulations - New Build 2019	Directly to the exterior	Yes	2.39		2.3	5.497	0.18	21.5	21.27
External wall	Current Building Regulations - New Build 2019	Directly to the exterior	Yes	4.4		2.3	10.12	0.18	21.5	33.59
Window	Current Building Regulations - New Build 2019						1.44	1.4	21.5	43.34
Internal wall	Plasterboard with Studding	Store	Yes	2.39		2.3	5.497	1.72	0	0
Sub total										154.48

Fabric heat loss is estimated based on external room dimension. If the room dimension input is internal, then a factor 1.15 will be multiplied.

Ventilation loss	Air changes per hour	Length (m)	Width (m)	Height (m)	Volume (m³)	Specific heat of air	ΔT (°C)	Heat loss (Watts)
	1	2.39	4.4	2.3	24.1868	0.34	21.5	176.81
Sub total								176.81

Ventilation heat loss is estimated based on internal room dimension. If the room dimension input is external, then a factor 0.8 will be multiplied.

Result	Heat loss (Watts)
Fabric heat loss	154.48
ventilation heat loss	176.81
Reheat load	0
Exposed location	0
Total heat loss	331.28

Utility

Measurement: internal

Fabric loss	Material	Heat transfer to	Thermal bridges insulated	Length (m)	Width (m)	Height (m)	Area (m²)	U-value (W/m²K)	ΔT (°C)	Heat loss (Watts)
Ground floor	Current Building Regulations - New Build 2019 - GF (No UFH)	Through the ground	Yes	1.3	2.38		3.09	0.18	21.5	3.59
Roof	Current Building Regulations - New Build 2019	Directly to the exterior	Yes	1.3	2.38		3.09	0.16	21.5	10.63
Window	Current Building Regulations - New Build 2019						0.7	1.4	21.5	21.07
Internal wall	Plasterboard with Studding	Tea Room	Yes	2.38		2.4	5.712	1.72	-3	-29.47
External wall	Current Building Regulations - New Build 2019	Directly to the exterior	Yes	1.3		2.4	3.12	0.18	21.5	12.07
External wall	Current Building Regulations - New Build 2019	Directly to the exterior	Yes	2.38		2.4	5.712	0.18	21.5	22.11
Internal wall	Plasterboard with Studding	W.C.	Yes	1.3		2.4	3.12	1.72	0	0
Sub total										45.99

Fabric heat loss is estimated based on external room dimension. If the room dimension input is internal, then a factor 1.15 will be multiplied.

Ventilation loss	Air changes per hour	Length (m)	Width (m)	Height (m)	Volume (m³)	Specific heat of air	ΔT (°C)	Heat loss (Watts)
	1	1.3	2.38	2.4	7.4256	0.34	21.5	54.28
Sub total								54.28

Ventilation heat loss is estimated based on internal room dimension. If the room dimension input is external, then a factor 0.8 will be multiplied.

Result	Heat loss (Watts)
Fabric heat loss	45.99
ventilation heat loss	54.28
Reheat load	0
Exposed location	0
Total heat loss	100.27

Stairs

Measurement: internal

Fabric loss	Material	Heat transfer to	Thermal bridges insulated	Length (m)	Width (m)	Height (m)	Area (m²)	U-value (W/m²K)	ΔT (°C)	Heat loss (Watts)
Ground floor	Current Building Regulations - New Build 2019 - GF (No UFH)	Through the ground	Yes	2.3	4.2		9.66	0.18	21.5	11.22
Internal ceiling	Intermediate Ceiling Timber with insulation	Landing	Yes	2.3	4.2		9.66	0.32	0	0
Internal wall	Plasterboard with Studding	Kitchen	Yes	4.2		2.18	9.156	1.72	0	0
External wall	Current Building Regulations - New Build 2019	Directly to the exterior	Yes	2.3		2.18	5.014	0.18	21.5	19.4
External wall	Current Building Regulations - New Build 2019	Directly to the exterior	Yes	4.2		2.18	9.156	0.18	21.5	27.31
Door	Current Building Regulations - New Build 2019						2.1	1.4	21.5	63.21
Internal wall	Plasterboard with Studding	Shop	Yes	2.3		2.18	5.014	1.72	-3	-25.87
Sub total										109.55

Fabric heat loss is estimated based on external room dimension. If the room dimension input is internal, then a factor 1.15 will be multiplied.

Ventilation loss	Air changes per hour	Length (m)	Width (m)	Height (m)	Volume (m³)	Specific heat of air	ΔT (°C)	Heat loss (Watts)
	1	2.3	4.2	2.18	21.0588	0.34	21.5	153.94
Sub total								153.94

Ventilation heat loss is estimated based on internal room dimension. If the room dimension input is external, then a factor 0.8 will be multiplied.

Result	Heat loss (Watts)
Fabric heat loss	109.55
ventilation heat loss	153.94
Reheat load	0
Exposed location	0
Total heat loss	263.49

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The User bears the entire risk to the quality and performance of the Tool. Any result calculated by the Tool and/or by any of the sub tools is to be considered as indicative and the User, as a person skilled in the art, is responsible for using the quality of result. The User will remain responsible for compliance with applicable laws.

Consulting / Downloading of Data

The User is allowed to consult, download and print certain data (such as documentation, brochures and publicity data), subject to following conditions:

- (a) the User may only download data where it is specifically indicated that this is allowed;
- (b) the data may not be modified or altered in any way;
- (c) The data marked 'confidential' / 'secret' may only be consulted, viewed, downloaded and printed by the User and may not be distributed to anyone else;
- (d) no copyright, trademark or other proprietary notices contained in the data are allowed to be removed;
- (e) Users' right to consult, view, download and print the data may be revoked at any time without reason by Daikin and/or the remote administrator;

The User is solely responsible for the acts and omissions of any users of the User Content, for the functionality and operation of the User Content and the support and maintenance arrangements for the User Content. The User acknowledges that it is responsible for determining and taking appropriate technical and organisational measures to maintain security, protection and backup of the User Content. The User must take every reasonable precaution against viruses, bugs, Trojan horses, worms, etc.

If applicable the Tool calculates an 'as representative as possible' seasonal efficiency, energy consumption and cost of the space heating mode, based on individual criteria indicated by the User (climate, heating emitters, design load, usage profile, energy prices...). Consequently, these values may differ from the seasonal efficiency data according EU regulations (EU) no 811 / 2013 and (EU) no 813 / 2013 published on www.daikineurope.com/energylabel. Also, these values are not to be used to calculate payments from potential local Incentive Schemes.

Intellectual property rights

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Disclaimer of warranty

Daikin does not warrant that the Tool will be error-free. This Tool is provided on an 'AS IS' basis, without warranty of any kind - either express or implied- including, but not limited to, a warranty of title, non-infringement, merchantability or fitness for a particular purpose and satisfactory quality; a warranty that the content of this Tool is complete, accurate or current; a warranty relating to the security of this Tool and that this Tool, including, without limitation, any backups of the data that are uploaded in the Tool, will operate without interruption or error.

This Tool has inherent limitations, including, but not limited to, design faults and programming bugs. The entire risk to the quality and performance of the Tool is borne by

the User, and it is Users' responsibility to ensure that it does what User requires it to do prior to using it for any purpose (other than testing it).

Limited liability

When using the Tool User, as a person skilled in the art, acknowledges and accepts to use it at its sole risk. The User agrees that under no circumstances User shall have any claim against Daikin or associated companies whether as employee, subcontractor, agent, representative, consultant, installer or otherwise for loss, damages, harm, injury, expense, work stoppage, loss of business information, business interruption, computer failure or malfunction which may be suffered by User or any other party from any cause whatsoever, howsoever arising in connection with the use of the Tool even if Daikin was aware or ought to have been aware of the potential of such loss. To the maximum extent permitted by applicable law, Daikin shall not be liable for any direct, indirect, general, special, incidental, punitive and/or consequential damages arising out of the use or inability to use the Tool or the use or the inability to use any back-up data.

Indemnity

The User shall indemnify Daikin and affiliated companies and hold them harmless against any claims which may arise from any loss, damages, harm, injury, expense, work stoppage, loss of business information, business interruption, computer failure or malfunction which may be suffered by User or any other party whatsoever as a consequence of any act or omission of Daikin or affiliated companies, whether negligent or not, arising out of Users' use of the Tool or from any cause whatsoever, howsoever arising in connection with the Tool.

Amendments

Daikin reserves the right to release new versions of the Tool (including changes in functionality or interface) that could replace earlier released versions of the Tool or to update the Tool's content from time to time at Daikin's own discretion and without prior announcement.

Daikin reserves the right, at own discretion, to modify from time to time these Terms of Use at Daikin's own discretion and without prior announcement. The User is responsible to review the Terms of Use in force at the time of access and use of this Tool.

Cookies

DENV can also collect these personal data automatically through the use of "cookies". A "cookie" is a small text file that is stored by your browser on the hard drive of your computer when you visit the Website online. It contains bits of information which facilitate your Website visit and increase user comfort while surfing. The use of "cookies" makes it possible to adapt the Website to your needs or to store your user name and password so that you do not have to enter them with every visit.

More information on the purposes for which "cookies" are used and your options regarding the use of certain "cookies" can be found in the [Cookie Notice](#).

Specifics on functionalities of the sub tools

The sub tool "Unit Selection" provides the User with an 'as representative as possible' seasonal efficiency, energy consumption and cost of the space heating mode, based on individual criteria indicated by the User or based on the user location information (climate, heating emitters, design load, usage profile, energy prices...). The different calculation steps for the Unit Selection can be reviewed in appendix 1.

The sub tool "Simplified Heat Load Calculator" allows users to calculate the heat load in a simplified manner based on historical energy consumption or based on information regarding the building involved (such as the location of the building, age of the building, heating surface, building type (bungalow, inhabited attic, house with more than one floor), adjoining type (detached, semi-detached, mid terrace), energy source, annual consumption).

We recommend users to use a calculation method like Room By Room Heat Load Calculator to be able to select the most suitable unit.

The different calculation steps of the "Simplified Heat Load calculator" can be reviewed in appendix 2.

The outcome of the "Load calculation" is merely indicative.

The sub tool room by room Heat Load Calculator allows users to calculate the heat load in a detailed way based on information of room by room thermal performance. This Calculator is based on calculation methodologies given in EN 12831, the "Domestic Heating Design Guide" (UK) and CIBSE Guide A (UK) but this tool doesn't guarantee the full compliance with these standards and other local standards.

The different calculation steps of the Room by room Heat Load Calculator can be reviewed in appendix 3.

The sub tool "Domestic Hot Water heat load calculator" has two scenarios to calculate the load capacity of domestic hot water: specify and profile. The different calculation steps of both methods of the Domestic Hot Water heat load calculator can be viewed in appendix 4.

The sub tool "Radiator sizing calculator" allows users to calculate the radiators needed for the heat load as calculated in the sub tool room by room Heat Load Calculator. The different calculation steps of the Daikin "Radiator sizing calculator" can be reviewed in appendix 5. The outcome of the "Radiator sizing calculator" is merely an estimation of the radiator capacity that is needed. The calculation is based on calculation methodologies given in EN 442-2 (1996) and "Design of low-temperature domestic heating systems" (by BRE, UK).

The sub tool "Sound Calculation" allows users to calculate the outdoor sound pressure level for the recommended solution. The sound calculation in the Heating Solutions Navigator is based upon the standard MCS 020 noise standard.

The flow temperatures used in the Heating Solutions Navigator are merely an indication. The user needs to assure these flow temperatures are matching the actual installation.

In the sub tool "Piping and wiring diagram" the diagrams that are generated in this sub tool take into account general installation methods and guidance for heating systems, which are to be considered as common practice in the European heating market.

The sub tool "Solar Selection Tool" gives an indication on the potential return on investment, CO2 savings, cost savings and others. More information can be found in appendix 6.

The sub tool "Economic Viability Study (EVS)" allows professional users of the Stand By Me platform to do simulation of the total life cycle cost of Daikin branded products/solutions in comparison with the life cycle costs of other standard residential heating products/solutions offered in the market. More information can be found in appendix 7.

Miscellaneous

The provisions of these Terms of Use shall also apply to and bind Users' legal successors, administrators, legal representatives, and permitted assignees.

Except where explicitly stated otherwise herein, if any provision of these Terms of Use is found to be invalid or unenforceable, the invalidity or unenforceability of such provision shall not affect the other provisions of these Terms of Use, and all provisions not affected by such invalidity or unenforceability shall remain in full force and effect. In such cases the User agrees to attempt to substitute for each invalid or unenforceable provision a valid or enforceable provision which achieves to the greatest extent possible the objectives and intention of the invalid or unenforceable provision.

The validity and interpretation of these Terms of Use will be governed by the laws of Belgium and any claim arising out of these Terms of Use shall exclusively be brought for the Courts of Brussels.

Contact information

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If you require any further information or have other questions please contact us via standbyme@daikin.ie