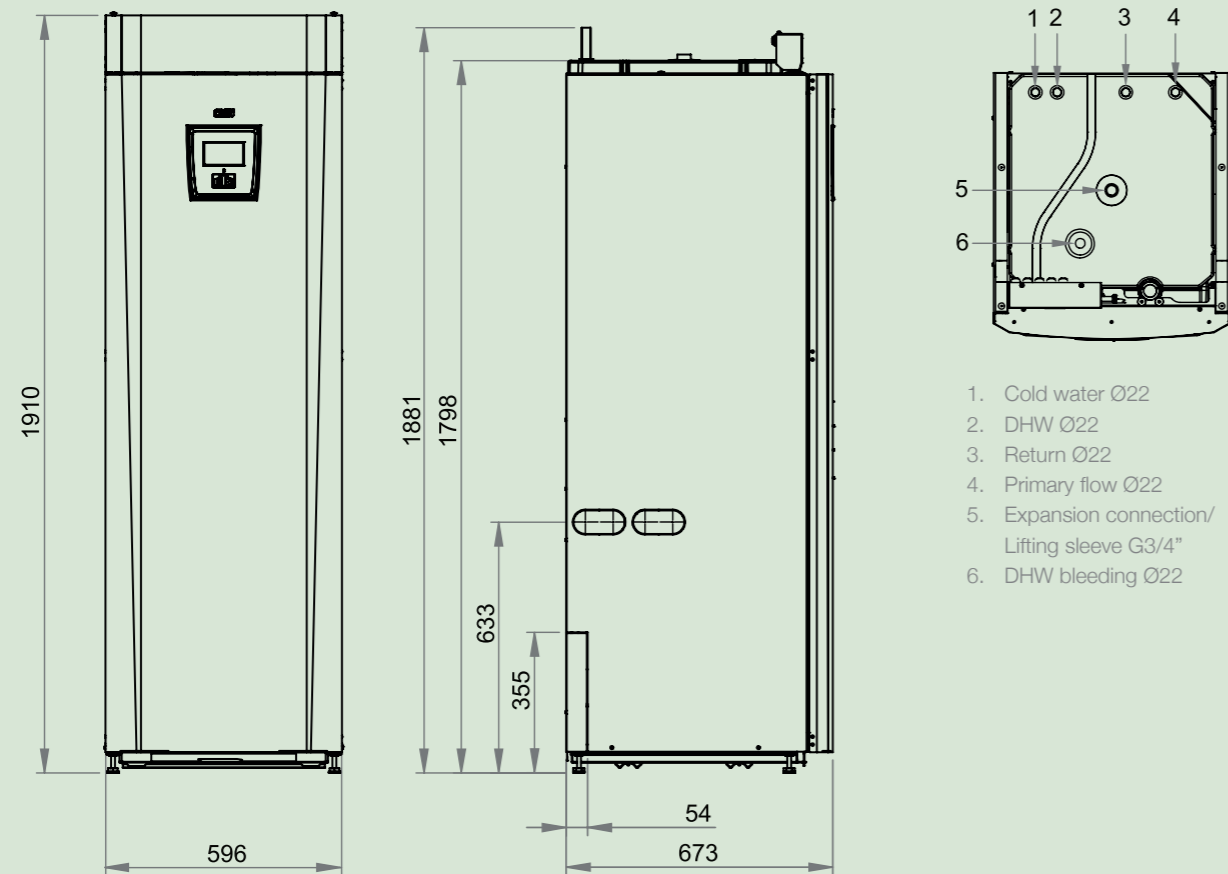


GSi 608, 612 & 616

GSi 608, 612 & 616

Dimensional drawing of the CTC GSi 608, 612 & 616 heat pump



1. Cold water Ø22
2. DHW Ø22
3. Return Ø22
4. Primary flow Ø22
5. Expansion connection/
Lifting sleeve G3/4"
6. DHW bleeding Ø22

Delivery includes:

Heat pump with housing cover and manual.

Packaging includes:

Room sensor, outdoor sensor, filler manifold, brine level tank, brine hoses, magnetite filter for return heating circuit, cold water dirt filter, pressure gauge, automatic bleeder, safety valve for brine (3 bar) and heating system (2.5 bar).

Variable speed ground source heat pump

Speed-controlled heat pumps for ground source, lake or geothermal heating. 2.5-16 kW, models 608, 612 and 616

CTC GSi adapts automatically to the building's output requirements during the year. When high output is required, the output increases. When less output is required, the compressor shifts to lower output. This means that you will always achieve maximum savings.

CTC GSi is equipped with a highly efficient water heater, which produces over 300 litres of hot water. CTC GSi is ideal for family homes as well as larger properties. CTC GSi comes in 3 sizes, which enables it to be utilised in most properties. CTC GSi 608 with an output range at 2.5-7.7 kW, CTC GSi 612 at 2.5-12 kW and CTC GSi 616 at 4-16 kW.

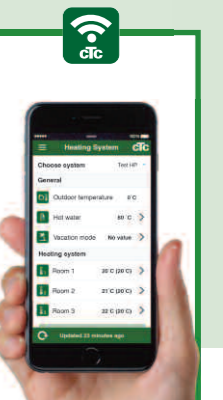
CTC GSi has a seasonal coefficient of performance (SCOP) of 5.5, which means that, over the course of year, it produces 5 times as much energy as it consumes. Compressor and cooling components are enclosed in a separate, sound-insulated unit, which makes it very quiet - only 36 dB(A) at 50 rps. Furthermore, the entire heat pump has very efficient insulation, which minimises energy losses. CTC GSi is so energy efficient that it easily meets the requirements for an A+++ rating - the highest and best energy rating a heat pump can be given.

Continued >>



Key features

- Highest energy class - A+++
- Produces over 300 litres of hot water
- Very high seasonal coefficient of performance: SCOP 5.5
- Smart Grid - ready to adapt to electricity prices
- Can control two heating systems
- All-inclusive, most functions come as standard
- Easy to install
- 4.3" colour touchscreen
- Very quiet, 36 dB(A)
- Can be controlled from a smartphone with CTC Connect+



GSi 608, 612 & 616

CTC GSi has a stylish white design and flexible modular dimensions that allow it to fit into most environments. Owing to the heat pump's modular construction, it can be easily separated into two individual units. The brine system can be connected to the right, left or rear. All for simple and easy installation. The 4.3-inch colour touchscreen has clear symbols with English text, which makes it easy to adjust the heat and hot water or to retrieve a range of information about the operation.

The built-in automatic control is climate controlled and takes into account both indoor and outdoor temperatures. CTC GSi is able to control two individual heating systems as standard.

All CTC heat pumps and boilers are designed, developed and manufactured in our factory in Ljungby. This gives us total control of all stages of the production process - from manufacture up to delivery of the finished product.

TECHNICAL DATA				
Three phase (400V)		GSi 608	GSi 612	GSi 616
CTC no.		587303001	587304001	587307001
Weight (packaged weight)	kg	309 (279)	265 (295)	275 (300)
Dimensions (H x W x D)	mm	1910 x 596 x 673		
Required ceiling height	mm	1940		
Electrical Data, connection		400V 3N~ 50Hz		
Energy efficiency class in heating system @ 35/55°C (A+++ to G)		A+++ / A+++		
Energy efficiency class heat pump @ 35/55°C (A+++ to D)		A+++ / A+++		
Energy efficiency class DHW / charge profile (EN16147) (A+ to F)		A / XL		
DHW-performance (V ₄₀) Volume 40°C @ Economy/Normal/Comfort (EN16147)		litres 210 / 235 / 304		
Rated current (recommended fuse)	A	13.3 (16)	24.9 (25)	23.8 (25)
Max. immersion heater output @ group fuse 10/13/16/20/25 A	kW	2.1 / 2.1 / 2.9 / 5.8 / 5.8	0.3 / 0.9 / 2.1 / 7.2 / 9	- / 0.3 / 0.9 / 2.1 / 9*
Output range (specified output cooling module)	kW	2.5 / 7.7	2.5 / 11.8	4 - 16
Output range immersion heater	kW	0.3 - 5.8	0.3 - 9	0.3 - 9
Ingress protection class (IP)		IP X1		
Specified output @ 5/35 5/45 5/55 @ 50 rps (EN14511)	kW	7.1 / 6.65 / 6.36	7.1 / 6.65 / 6.36	12.26 / 11.22 / 10.55
COP @ 5/35 5/45 5/55 @ 50 rps (EN14511)		5.62 / 4.26 / 3.57	5.62 / 4.26 / 3.57	5.07 / 3.87 / 3.14
Specified output @ 0/35 0/45 0/55 @ 50 rps (EN14511)	kW	6.08 / 5.68 / 5.24	6.08 / 5.68 / 5.24	10.52 / 9.58 / 8.90
COP @ 0/35 0/45 0/55 @ 50 rps (EN14511)		4.78 / 3.68 / 2.95	4.78 / 3.68 / 2.95	4.50 / 3.43 / 2.72
SCOP (P _{design,h}) cold climate @ 0/35 0/55 (EN14825)		5.6 / 4.2	5.5 / 4.3	5.5 / 4.2
SCOP (P _{design,h}) moderate climate @ 0/35 0/55 (EN14825)		5.4 / 4.2	5.4 / 4.1	5.2 / 4.0
Water volume - Heating system (V)	litres	229		
Water volume - Water supply system (V)	litres	1.7		
Refrigerant quantity (R407C, fluorinated greenhouse gas GWP 1774)	kg	2.4	2.4	2.2
CO ₂ equivalent	tonnes	4.258	4.258	3.903
Sound power @ 0/35 0/55 (according to EN12102)	dB(A)	39 / 41	39 / 41	36 / 40

Energy labels and data sheets can be downloaded from www.ctc-heating.com/Ecodesign

* Max. 6 kW electric heater output in combination with compressor operation.

TECHNICAL DATA		GSi 612
Single phase (230V)		GSi 612
CTC no.		587305001
Weight (packaged weight)	kg	252 (282)
Dimensions (H x W x D)	mm	1910 x 596 x 673
Required ceiling height	mm	1940
Electrical Data, connection		230V 1N~ 50Hz
Energy efficiency class in heating system @ 35/55°C (A+++ to G)		A+++ / A+++
Energy efficiency class heat pump @ 35/55°C (A+++ to D)		A++ / A++
Energy efficiency class DHW / charge profile (EN16147) (A+ to F)		A / XL
DHW-performance (V ₄₀) Volume 40°C @ Economy/Normal/Comfort (EN16147)	litres	215 / 235 / 311
Rated current (recommended fuse 50 A)	A	49
Max. electric heater output @ group fuse 25/32/35/50/63 A	kW	- / 0.9 / 2.3 / 5.5 / 5.5
Output range (specified output cooling module)	kW	1.6 - 12.5
Output range immersion heater	kW	0.3 - 5.5
Ingress protection class (IP)		IP X1
Specified output @ 5/35 5/45 5/55 @ 50 rps (EN14511)	kW	6.62 / 6.27 / 6.09
COP @ 5/35 5/45 5/55 @ 50 rps (EN14511)		5.22 / 3.95 / 3.20
Specified output @ 0/35 0/45 0/55 @ 50 rps (EN14511)	kW	5.75 / 5.46 / 5.22
COP @ 0/35 0/45 0/55 @ 50 rps (EN14511)		4.49 / 3.49 / 2.79
SCOP (P _{design,h}) cold climate @ 0/35 0/55 (EN14825)		5.3 / 4.0
SCOP (P _{design,h}) moderate climate @ 0/35 0/55 (EN14825)		5.1 / 3.9
Water volume - Heating system (V)	litres	229
Water volume - Water supply system (V)	litres	1.7
Refrigerant quantity (R410A, fluorinated greenhouse gas GWP 2088)	kg	2.30
CO ₂ equivalent	tonnes	4.802
Sound power @ 0/35 0/55 (according to EN12102)	dB(A)	38 / 43

Energy labels and data sheets can be downloaded from www.ctc-heating.com/Ecodesign