

# Compress 7001i Installer guide

Flexible, future-proofed heating



Installer  
guide



# Compress 7001i AW

## Flexible, future-proofed heating

Low maintenance, low carbon, and low energy – the CS7001i is designed to be a favourite among installers and homeowners alike.

With everything you'd expect from Bosch quality design, the CS7001i is a high efficiency, semi monobloc heat pump with a raft of smart features suitable for small to medium homes, in renovation or new build projects.



 **Trustpilot**  
Our customers rate us excellent

## Why install the Compress 7001i AW?



### Quiet quality

Quiet Mark certified  
from just 39dB



### Powerful

Flexible outputs for  
diverse homes



### Bosch quality

Top quality design  
guaranteed



### Efficient

A+++ rated  
heating<sup>^</sup>



### Simple

Easy-to-use temperature  
controls



### Responsible

Lower carbon  
home heating

# Air to water

## Quiet, powerful and simple to use



Neighbour and neighbourhood friendly, the CS7001i is Quiet Mark certified. With a sleek design and low running volume, this unobtrusive heat pump will be a fast favourite for forward-thinking homes.

And with power outputs from 5kW – 17kW, you've got a solution up your sleeve, whatever the shape and size of the property.



### Why choose Worcester Bosch?



#### Tried and tested

With over 15 years of expertise, Bosch is an established leader in heat pumps.



#### Get ahead

Training and support to go from newbie to expert.



#### End-to-end support

We've got your back – with marketing, technical, and design teams always on-hand.

# Simple to install

## Easy to control

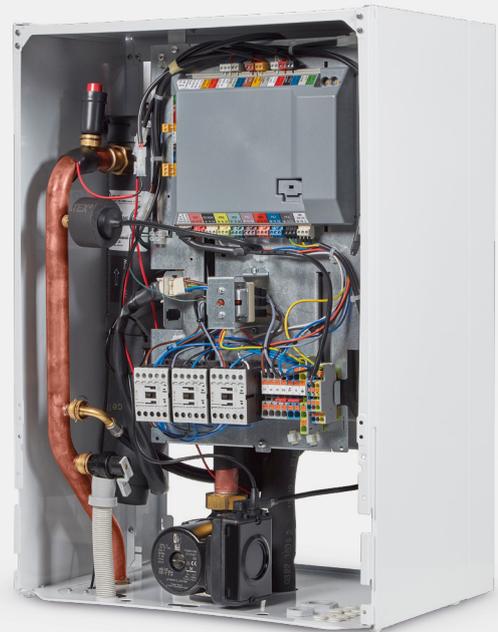


### Ultra-quiet

The CS7001i is Quiet Mark certified. To maximise peace and tranquility around the home.

### Simple indoor unit

All essential system components in one place, including expansion vessel, pump, valves.



### Pre-configured indoor unit

For quick and easy installation with a built in multi-functional back up electric booster for heating and hot water.



## High performance

Delivering seasonal coefficient of performance SCOP of 4.61 (MCS figures) at 35° on the 7kW model and is A+++ rated so can be relied upon to deliver home comfort in even the coldest of temperatures.



## Connected and easy

HPC 410 control integrated within the indoor unit, so customers can simply control their heat pump. For extra comfort, the CR10H room controller is also available.

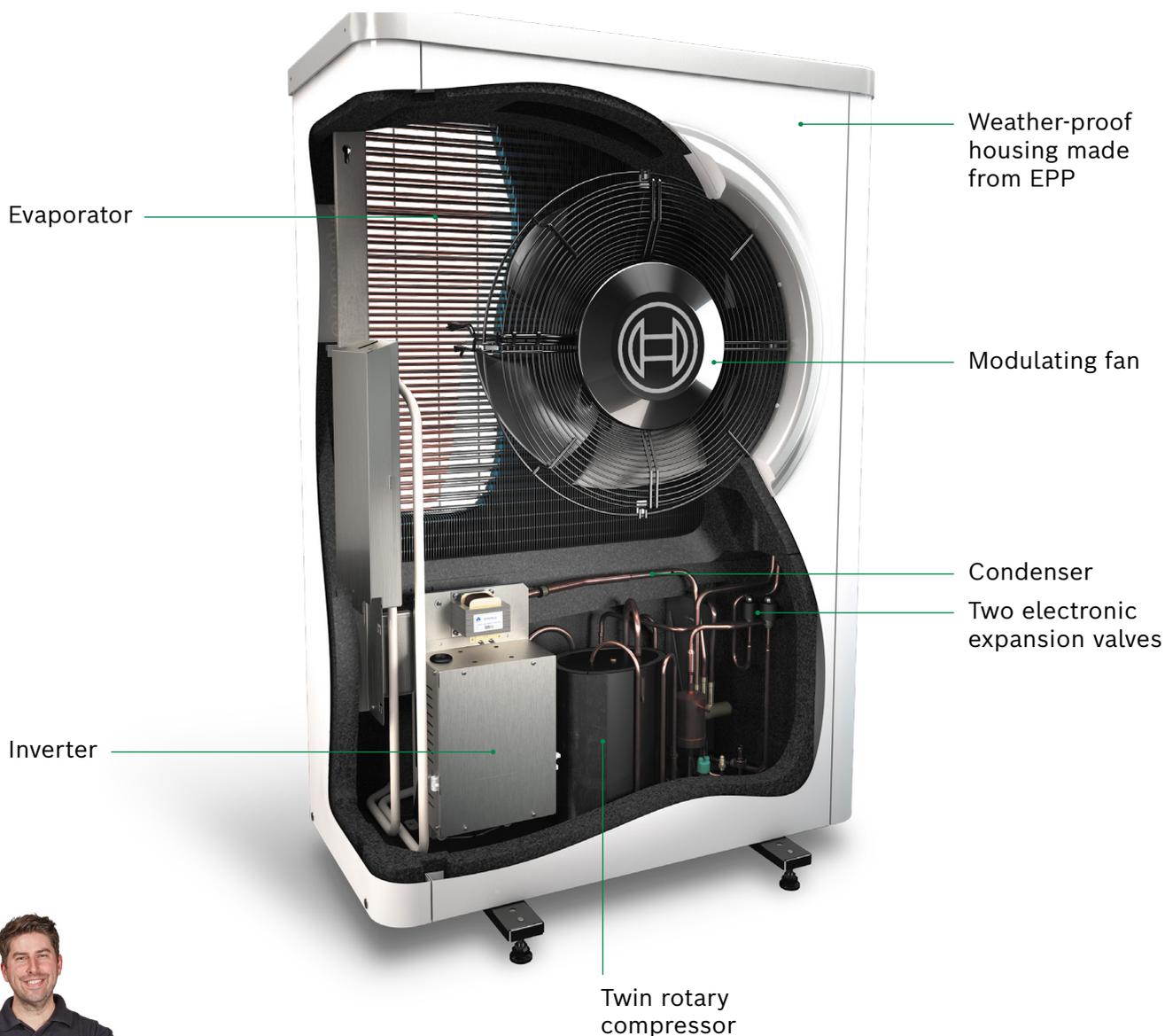
## Hello hybrid heating

Bring boilers and heat pumps together with the hybrid unit that can be coupled with our 4-9kW outdoor units.



# Outdoor unit

## The inside story



**The high performing Compress 700i makes installation simple for experienced or new installers.**

Darren Danks,  
Worcester Bosch Product Manager

# Indoor unit

## The inside story

This wall-mounted unit offers a flexible range of options in combination with various hot water storage solutions.

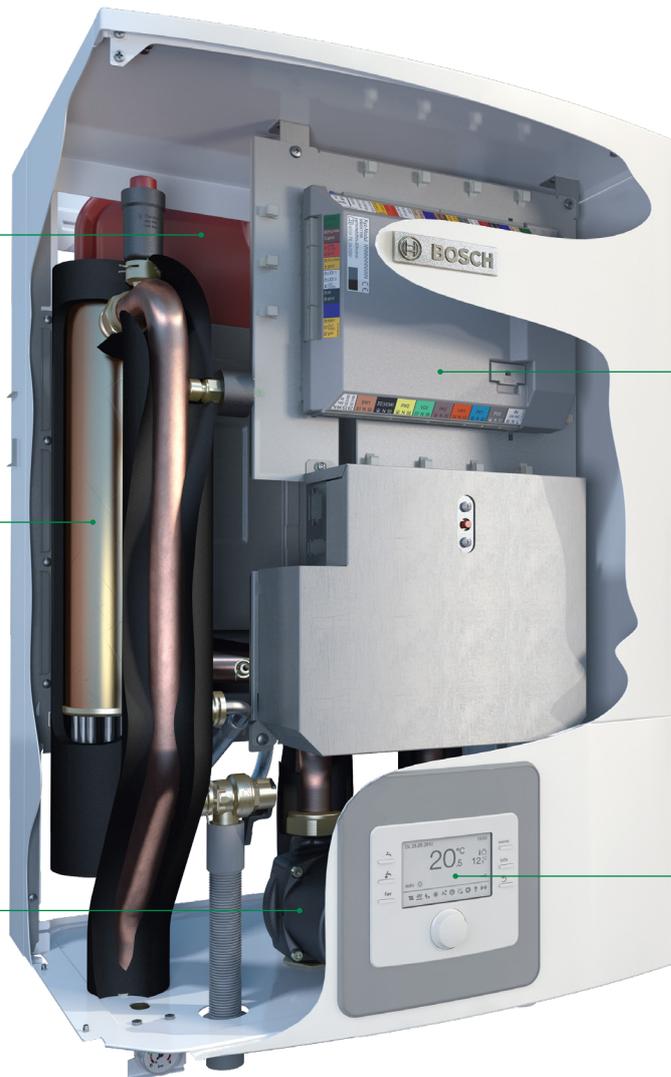
Integrated HMI



Expansion vessel

Electric booster heater

High-efficiency circulation pump

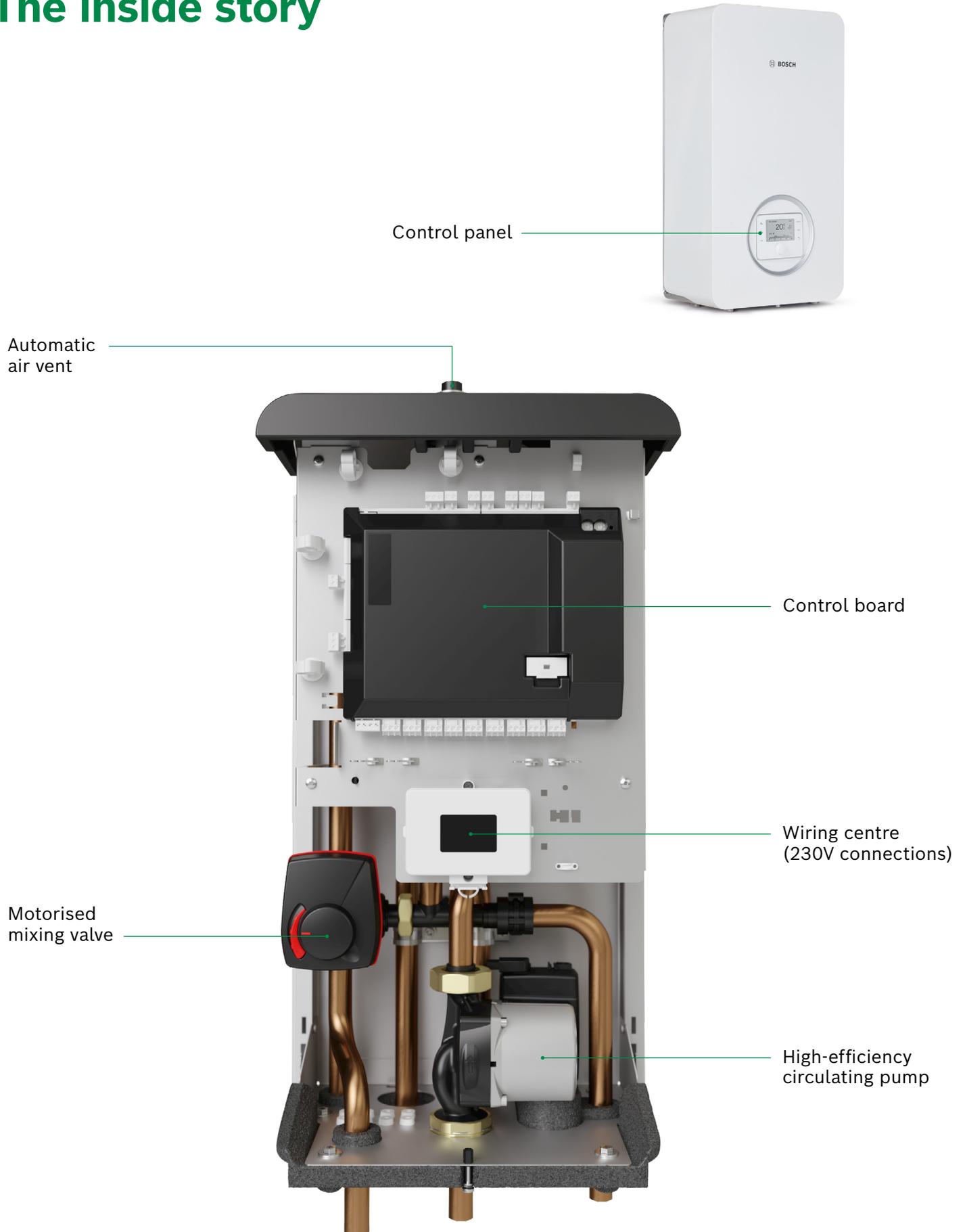


Control box

Integrated HMI

# Indoor unit (Hybrid)

## The inside story



# System options

Flexible and future ready, the CS7001i is available in 3 setups: a standalone heat pump, a hybrid with combi, or hybrid with system boiler.

## Heat pump system



Outdoor unit



Indoor unit



Heat pump cylinder

## Hybrid system – with combi boiler\*



Outdoor unit



Hybrid indoor unit



Combi boiler

## Hybrid system – with gas system boiler\*\*



Outdoor unit



Hybrid indoor unit



System boiler



Hot water cylinder

\*Compatible with natural gas, LPG and oil boilers.

\*\*Compatible with natural gas and LPG boilers with integral diverter valve.

# Clearances

The illustrations below show some possible system configurations and the necessary minimum clearances.

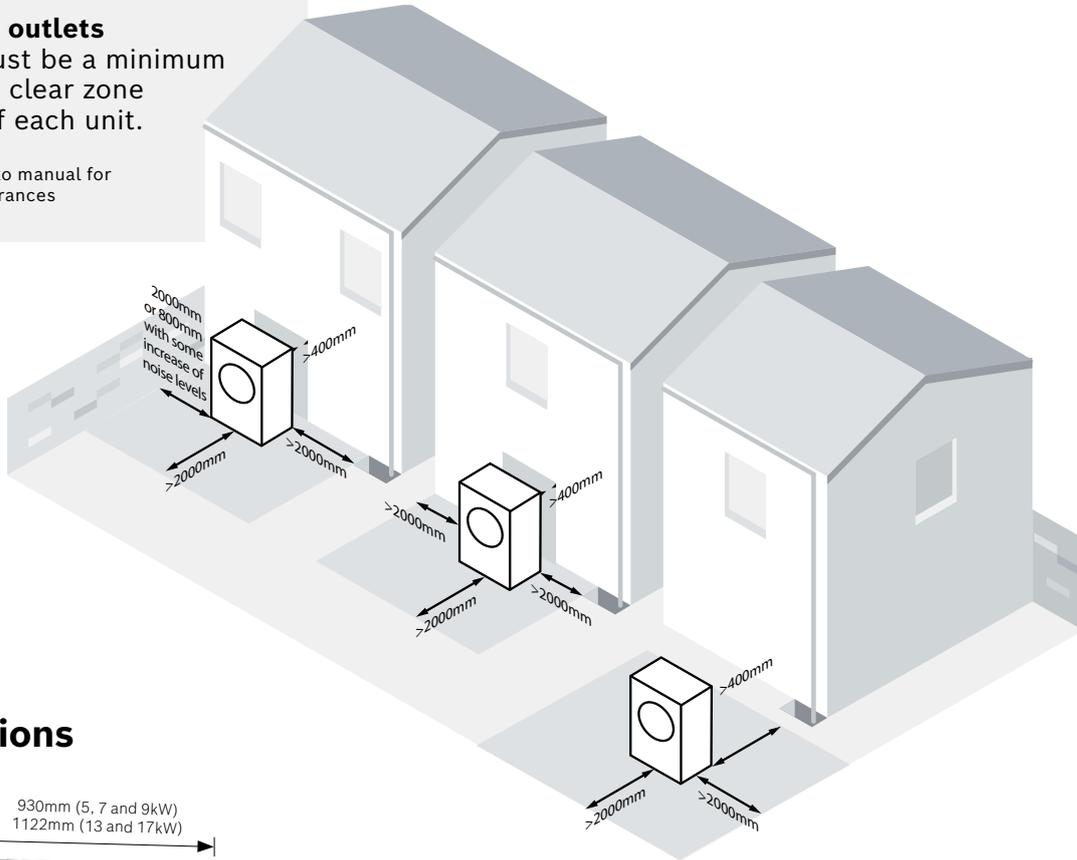
## Rear air inlets

These must be a minimum of 400mm from any obstruction.

## Front air outlets

There must be a minimum 2000mm clear zone in front of each unit.

Please refer to manual for detailed clearances



## Dimensions



**CS7001i Outdoor unit**



**Indoor wall-hung unit**



**Hybrid 7000i AW**

For further information and support, please contact:

### Technical Helpline:

Tel: 0330 123 3366

Email: [technical-advice@uk.bosch.com](mailto:technical-advice@uk.bosch.com)

# Key information

## Outdoor unit

Model	5kW	7kW	9kW	13kW	17kW
<b>Part number</b>	8 738 210 255	8 738 210 256	8 738 210 257	8 738 602 089	8 738 601 998
<b>Dimensions</b>	<b>Width</b>	930mm	930mm	930mm	1122mm
	<b>Height</b>	1380mm	1380mm	1380mm	1695mm
	<b>Depth</b>	440mm	440mm	440mm	545mm
<b>Cubic dimensions</b>	0.565m <sup>3</sup>	0.565m <sup>3</sup>	0.565m <sup>3</sup>	1.036m <sup>3</sup>	1.036m <sup>3</sup>
<b>Weight</b>	106kg	107kg	114kg	182kg	193kg

## Indoor unit

Model	5-9kW	13-17kW
<b>Part number</b>	8 733 602 107	8 733 602 108
<b>Dimensions</b>	<b>Width</b>	485mm
	<b>Height</b>	700mm
	<b>Depth</b>	386mm
<b>Weight</b>	32kg	32kg

## Hybrid unit

Model	Hybrid AWS	
<b>Part number</b>	8 732 948 754	
<b>Dimensions</b>	<b>Width</b>	350mm
	<b>Height</b>	706mm
	<b>Depth</b>	246mm
<b>Weight</b>	18kg	

## Tower unit

Model	5-9kW	13-17kW
<b>Part number</b>	8 738 212 649	8 738 212 650
<b>Dimensions</b>	<b>Width</b>	600mm
	<b>Height</b>	1800mm
	<b>Depth</b>	650mm
<b>Weight</b>	145kg	150kg

## Siting information

### Indoor unit – clearances

Front: 800mm Left/Right: 50mm Top: 550mm

### Hybrid unit – clearances

Front: 800mm Left/Right: 100mm Top: 550mm

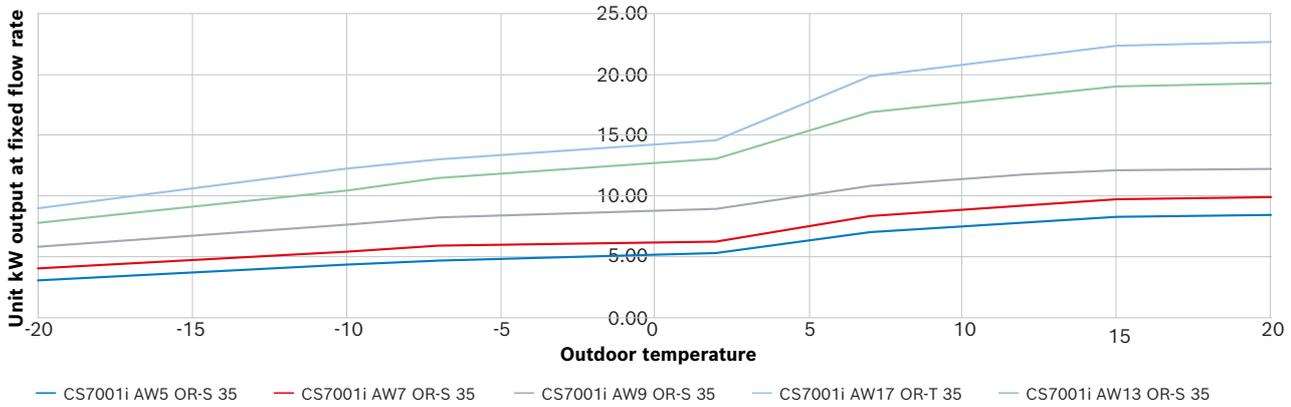
### Tower unit – clearances

Front: 800mm Left/Right: 50mm Top: 400mm

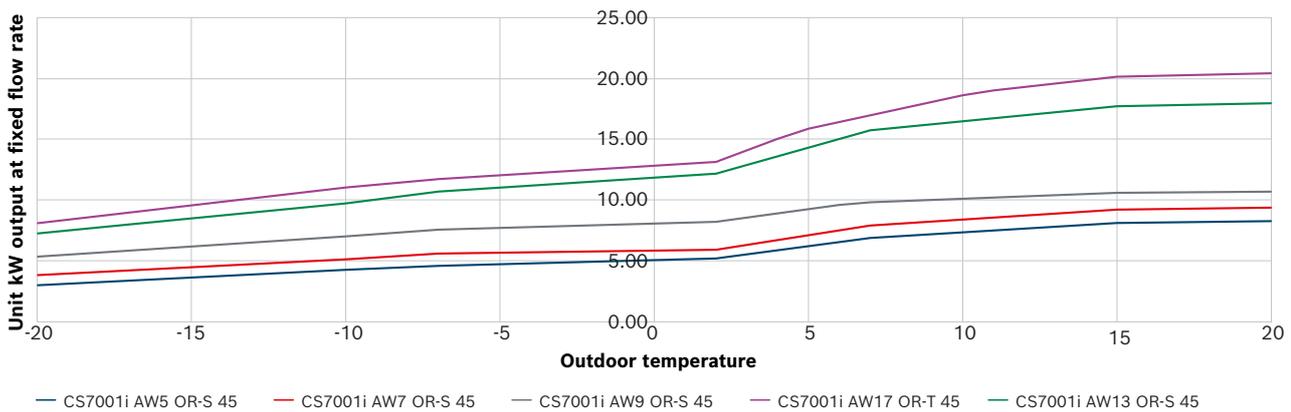
# Heating performance

These graphs explain the output performance variations of each CS7001i output. They show the water temperature achievable in radiators in relation to the outdoor temperature. This information will help you to select the most appropriate model for your customer's home.

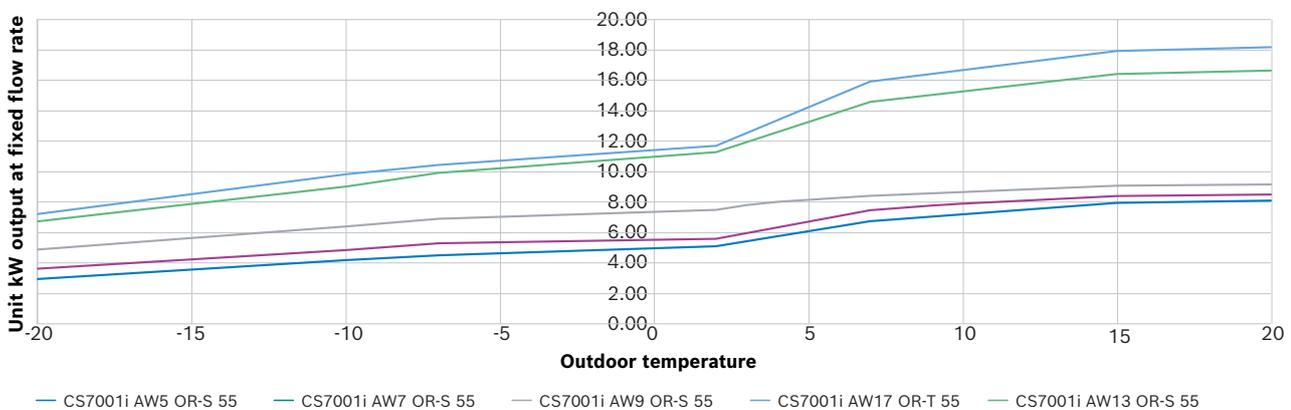
## CS7001i 35°C



## CS7001i 45°C



## CS7001i 55°C



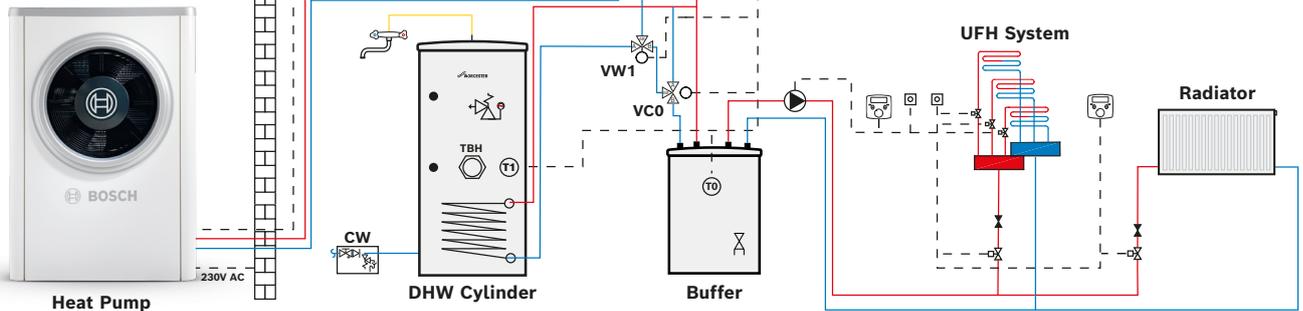
# Schematics

## CS7001i AW OR-S 1 X RAD, 1 X UFH DHW, buffer and 3rd party controls

Key	Description	Details
	3rd Party Controls	
	Isolation Valve	
	Filter	
<b>CW</b>	Inlet Control Group	
	Room Thermostat	Specified by 3rd Party
	Pump	
	2 Port Valve	
	Non Return Valve	
	Flow Temp. Sensor	Refer to instructions for location
	Outdoor Sensor	Refer to instructions for location
	Cylinder Sensor	

T1 Sensor to be fitted on North facing wall where possible. Please refer to installation manual for guidance.

Controls for heating system to be specified by third party.



**All electrical work should be carried out by a registered engineer. Wiring must comply with the latest IET wiring regulations. Isolate the mains electricity supply before starting any work and observe all relevant safety precautions. Refer to all relevant product installation manuals for safety and installation instructions.**

Whilst it is always our intention to fully assist, it is essential to recognise that all information given by the company is provided in good faith and based upon the information available. Connection labels may not match those of the products installed on site. We recommend that advice should always be checked with your installer, electrician or the manufacturer of the product in question. Consequently, the company cannot be held responsible for any liability relating to the use or repetition of such information or part thereof. In addition, whilst making every reasonable effort to monitor the performance and quality of our supply, installation and service network, we do not accept responsibility for the workmanship or operation of any third party company.

# Technical data

CS7001i Technical data	CS7001i 5kW	CS7001i 7kW	CS7001i 9kW	CS7001i 13kW	CS7001i 17kW
Part number (outdoor unit)	8 738 210 255	8 738 210 256	8 738 210 257	7 738 602 089	7 738 601 998
Part number (indoor unit)	7 738 602 107	7 738 602 107	7 738 602 107	7 738 602 108	7 738 602 108
Energy efficiency class (35°C)	A+++				
Energy efficiency class (55°C)	A++				
Coefficient of performance (COP) at +7/W35	4.69	5.31	5.02	4.68	4.87
Seasonal coefficient of performance (SCOP) (35°C)	4.41	4.77	4.57	4.6	3.35
Seasonal coefficient of performance (SCOP) (55°C)	3.22	3.43	3.44	3.38	2.85
ERP sound power at a distance of 1m dB(A)	39	39	40	47	45
Refrigerant type	R410A				
Compressor type	Twin rotary compressor				
Power supply - outdoor unit	230V 1N AC 50Hz				400V 3N AC 50Hz
Electric booster heater (standard)	Yes				
Working outdoor temperature range (heating)	-20/35°C				
Heating power at A-7/W35*	4.7	5.93	6.21	11.5	13.02

Hybrid indoor unit	Hybrid AWS 8 738 808 679
Compatible with (heat pump)	5kW (8 738 210 255), 7kW (8 738 210 256), 9kW (8 738 210 257)
Dimensions (HxWxD mm)	706 x 350 x 246
Weight (kg)	18
Connections	22mm copper(22mm copper to 3/4" MBSP fittings supplied)
Sound pressure level (dBA)	36
Maximum operating pressure	3 bar
Ingress protection	IPX1D
Heat pump switching	Bosch EMS
Boiler switching	230V
Boiler type	Up to 32kW for heating

# Parts and accessories

Accessories	Part number
3-way valve (22mm)	8 738 201 412
3-way valve (28mm)	8 738 201 411
CANbus cable 2x2x0.752 15m	8 738 206 183
CANbus cable 2x2x0.752 30m	8 738 206 184
CR10H Controller	7 738 112 314
MM100 Mixer (multi-zone controller)	7 738 110 140
Heating cable CSC/TS 2m/30W/230V	7 719 003 296
Heating cable CSC/TS 3m/45W/230V	7 719 003 297
Heating cable CSC/TS 5m/75W/230V	7 719 003 298
Assembly INPA hose	8 733 716 993
Bosch CR10H (room thermostat)	7 738 112 314
Bracket Kit for MM100	8 738 205 073
Dew point sensor	7 747 204 698
Sound hood 5-9kW (front)	8 733 709 284
Sound hood 5-9kW (back)	8 733 709 037
Sound hood 13-17kW (front)	8 733 709 289
Sound hood 13-17kW (back)	8 733 709 042
Alarm buzzer	8 738 206 696
50l Buffer vessel	7 716 161 061
120l Buffer vessel	7 735 500 777
Green Storage WB Range Heat Pump Cylinder 150	7 733 601 189
Green Storage WB Range Heat Pump Cylinder 180	7 733 601 333
Green Storage WB Range Heat Pump Cylinder 210	7 733 601 334
Green Storage WB Range Heat Pump Cylinder 250	7 733 601 335
Green Storage WB Range Heat Pump Cylinder 300	7 733 601 336
Pump Group HS25/6 s BO	7 736 601 142
Pump Group HS25/6 BO	7 733 601 144
Pump Group HSM25/6 BO	7 733 601 148
Pump Group HS25/6 MM100 BO	7 733 601 151
Pump Group HSM25/6 MM100 BO	7 733 601 155
<b>Optional accessories available directly from merchant</b>	
Rubber feet	See merchant
UV and frost protection pipe insulation	See merchant

# Training

## Ready for a heating revolution?

Wherever you are in your low carbon heating journey, from starting out to adding to your heat pump expertise, we can support you.

Heat pumps should only be installed, brought into operation and maintained by a competent professional.

## Start your journey with us

Becoming MCS certified is a mark of your excellence as an installer. We're here to support you with our range of MCS courses including:

- ▶ Water regulations certification (WRAS) course
- ▶ Level 3 Award Low temperature heating and hot water systems in dwellings
- ▶ Level 3 Award RQF installation and maintenance of air source heat pump systems

Our product training courses will help you get hands-on experience and understand all the features and benefits, specification, installation, and servicing.

# Get in touch

## Sales

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We can support you with unlocking government grants and extended guarantees.

If MCS isn't right for your business right now, you can use our third party MCS umbrella scheme - who will handle the design, training and MCS accreditation paperwork to enable your customer to apply for government grants.

Contact our pre-sales team to find out more:  
**0330 123 3366.**



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