

MILTON COURT

RINGLAND

NEWPORT

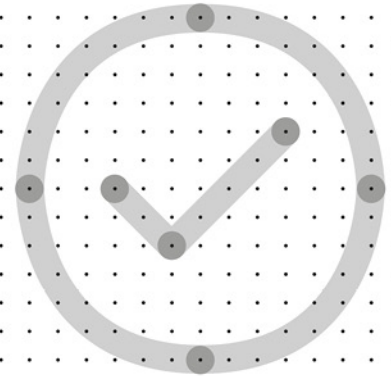
NP19 9HF

ASHP COMMISSIONING CERTIFICATION.

PROJECT REF: 2581



MCS Certificate



MCS INSTALLATION CERTIFICATE NO. MCS-02591023-T

CERTIFICATE VERSION 1

12/01/2026

INSTALLER DETAILS

MCS Installer: AMS Heating & Plumbing Ltd
MCS Certification Number: NIC200097
TSI Consumer Code: RECC
TSI Consumer Code ID: 00075263

INSTALLATION DETAILS

Total Installed Capacity (kW): 56.00
Estimated Annual Generation (kWh): 23797.00
Planning Regulations Compliance: Permitted Development Rights
Building Regulations Notification: After The Installation Through A Self
Certification Competent Persons Scheme (CPS)
Installer Project Number: 20312

SITE DETAILS

Address: Milton Court Communal Area, MILTON COURT, NEWPORT,
Gwent, NP19 9HF

Supply MPAN: 2199991430570

Commissioning Date: 03/12/2025

PRODUCT DETAILS

TECHNOLOGY TYPE: AIR SOURCE HEAT PUMP

MCS PRODUCT NUMBER	PRODUCT MANUFACTURER	MCS CERTIFIED PRODUCT NAME	FLOW TEMP	SCOP
041-K044-04 D	Bosch Thermotechnik Gmbh	CS2000AWF 30 R-T	50	3.13
041-K044-04 D	Bosch Thermotechnik Gmbh	CS2000AWF 30 R-T	50	3.13

ADDITIONAL DETAILS

Renewable System Designed to Provide:
Space heat and DHW

No. of MCS certs:
1

Install New at Commissioning:
Yes

SPACE / WATER HEAT

Annual Space Heating Demand:
34544.00

Annual Water Heating Demand:
47070.10

Annual Space Heating Supplied:
34544.00

Annual Water Heating Supplied:
47070.10



**BOSCH**

Commissioning report

2000 Heat Pump

Achieved with comments

Installation

Date **15/09/2025**

Site Details

Contact Name **Andrew Maggs**Tel Number **07976706573**Full Site Address
**1 Milton Court
Newport**Postcode **NP199HF**

Commissioning Engineer

05RG

Installer Details

Contact Name **Andrew Maggs**Tel Number **07976706573**Installer Address
**AMS Heating and Plumbing
Ltd
Unit 30 Woodfieldside
Business Park
Blackwood Gwent**Postcode **NP12 2DG**

Product	Product Type	Plant	FD	Serial number	Product code	Job Number
1	CS2000AWF 30 R-T	3730	439	000025	7738602290	415638982
2						
3	CS2000AWF 30 R-T	3730	439	000028	7738602290	415638986
4						
5						
6						

General

Is the system a new or existing installation?		New	☒	Existing	☐
Installation location?		ODU Outdoor within locked cage HMI Communal room			
Has the outdoor unit been installed in accordance with local permitted development requirements?	Yes	☒	No	☐	No requirement ☐
If the outdoor unit has not been installed in accordance with permitted developments has the appropriate planning permission been approved?	Yes	☒	No	☐	Achieved with comments ☐
Has the outdoor unit been installed securely to prevent damage from adverse weather conditions?	Yes	☒	No	☐	Achieved with comments ☐
Have transport locks been removed from the CS2000 outdoor units if applicable?	Yes	☒	No	☐	
Is the Heat pump part of a hybrid system?	Yes	☐	No	☒	
Are the Heat pumps installed to manufacturers instructions & does the installation conform to standards?	Yes	☐	No	☐	Achieved with comments ☒

Comments

Installers electrician returning to fit contactor for pump connected to master ODU. Advised no warranty until fitted.

Hydraulics

How many heating circuits have been installed?					
Has a Buffer vessel been fitted?	Yes	☒	No	☐	
Type of second heat generator and KW? (Hybrid)	Oil	☐	Gas	☐	N/A ☒
Has the system design been considered to give enough free flowing water for defrost?	Yes	☒	No	☐	
Have dirt traps & integral filters been fitted to manufacturers instructions?	Yes	☒	No	☐	
Has pipework been insulated appropriately?	Yes	☒	No	☐	
Have drain valves been fitted?	Yes	☒	No	☐	
Has a heat loss calculation been used for the installation?	Yes	☒	No	☐	Achieved with comments ☐
Evidence provided?		No			
Have the radiators or underfloor heating been designed and sized correctly to operate on the design flow and return temperatures?	Yes	☒	No	☐	Achieved with comments ☐
Have appropriate anti-freeze measures been taken?	Yes	☒	No	☐	
If glycol has been used, has the correct concentration been used and set in the HMI?	Yes	☐	No	☒	

**BOSCH****Buffer Vessel**

Is the buffer vessel of an appropriate capacity for the Heat pump and installation?

Yes

☒

No

☐

Buffer vessel manufacturer and type?

Bosch BH 120-5 1 B

Buffer capacity?

120

litres

Has TbT1 sensor being fitted and activated in HMI?

Yes

☒

No

☐

Comments

Pipework

Has the condense pipe being installed to the manufacturers instructions?

Yes

☐

No

☐

Is there adequate protection from frost?

Yes

☒

No

☐

Has the heating cable accessory/drain pan been installed in the condensate pipework?

Yes

☐

No

☒

What is the approximate distance between the outdoor unit and the cylinder?

16m

What size pipework has been used for the flow and return to the ODU?

35mm

Have isolation valves been fitted to the flow and return of the ODUs?

Yes

☒

No

☐

Achieved with comments

☐

Have the flow and return pipes been insulated correctly?

Yes

☒

No

☐

Comments

Wiring

Have the ODUs been electrically connected to manufacturer instructions?

Yes

☐

No

☒

Achieved with comments

☐

Has the heat pump been installed on a Single or Three phase system?

Single

☒

Three phase

☐

Has the installation been fitted to current wiring regulations?

Yes

☒

No

☐

Comments

Fuse protecting appliances is not Type B.

No contactor fitted to external pump connected to ODU, electrician is returning to fit, advised no warranty until fitted.

**BOSCH****Domestic Hot Water**

Domestic Hot Water cylinder manufacturer and type? WB Green Storage

Exchanger area? 2.3 m²

Rated content? 300 Litres

Has the hot water sensor been installed to manufacturers instructions? Yes ☒ No ☐

Temperature set for hot water cylinder 50

Comments

Pasteurisation

Temperature setting 65 °C

Heat maintain time 15 Hr

Maximum time of pasteurisation 60 Hr

Has pasteurisation been set to on? Yes ☒ No ☐**Cooling**Will the installation provide cooling? Yes ☐ No ☒Has the pipework been appropriately insulated? Yes ☐ No ☒Has the design of the cooling system considered dew point? Yes ☐ No ☒

Comments

HeatingHas the heat curve been set relative to the system design? Yes ☒ No ☐Have all sensors been fitted to manufacturers instructions? Yes ☒ No ☐

Heat curve setting?	Base point	Water temp	N/A	Air temp	N/A
	End point	Water temp	N/A	Air temp	N/A
Minimum outdoor temperature	-3				

Comments

Flow temperature of 50 degrees set into busffer tank and HMI is being used as a room sensor and set to 24 degrees.

**BOSCH****Accessories**

Installed yes/no:					Quantity:
Electrical heater	Yes	☒	No	☐	1
3 port valve (DHW)	Yes	☒	No	☐	1
T5 sensor (DHW)	Yes	☒	No	☐	1
Tbt 1 sensor	Yes	☒	No	☐	1
Flexible hose kit for outdoor unit	Yes	☒	No	☐	1
Anti vibration feet (Bosch)	Yes	☐	No	☒	0
Floor mouting feet (3rd party)	Yes	☒	No	☐	1
Wall mouting bracket	Yes	☐	No	☒	0
Drain pan	Yes	☐	No	☒	0
Comments					

Water flow - m3/hr

N/A

Sensors	Temperatures:
T5 temp	39
TW2 (second circuit temp)	0
Set flow temperature (T0)	50
TbT1 temp	31
Twin temp (TW_I)	46
Twout temp (TW_O)	51
Tp comp discharge temp	70
T3 temp	10
T4 temp	15
Comments	



Water sample reference number

Warning notice issued?	Yes	☐	No	☒
Appliance(s) left operating?	Yes	☒	No	☐
Comments				

Important:

An 'Achieved' status commissioning report confirms the Bosch appliance is functioning safely, working to the manufacturer's specification, and settings and performance test results have been accepted as satisfactory.

A 'Not Achieved' status commissioning report indicates that the commissioning process has identified deficiencies relating to the Heat Pump and/or its installation and/or the system. You must arrange for any deficiencies noted in the commissioning report to be remedied in full by your installer at the earliest opportunity. A new appointment must then be made with Bosch to commission the appliance.

An 'Achieved with notes' status indicates that the commission has been achieved and the product will function however, optimal performance and productivity cannot be guaranteed.

Heat pump commissioning is only undertaken by Bosch following receipt of a 'Heat Pump Pre-Commission report' completed in full by the installer. The 'Heat Pump Pre-Commission report' is relied upon by Bosch during the commissioning process. Bosch assumes no responsibility or liability for the content of the completed 'Heat Pump Pre-Commission report' nor for any errors or omissions therein, or for any act or omission of the installer.

During commissioning Bosch are unable to, and will not, inspect the entirety of the Heat Pump system installation. Unless expressly advised otherwise in writing by Bosch (for example by our Bosch in-house system design team), Bosch assumes no liability for the system design, sizing, product specification or installation of the system, and makes no warranties or representations as to the quality of the installation.



The heat pump must be correctly installed and commissioned by a competent and officially certified installer (e.g. MCS, FGAS) in accordance with the manufacturer's instructions, applicable legal requirements and industry standards. This checklist does NOT conform to MCS standards, please refer to MCS documentation for further information.

Responsible Person on Site

Name	Andrew Maggs
Telephone Number	07976706573
Date	1/10/2025