System schematics for aroTHERM plus

Vaillant

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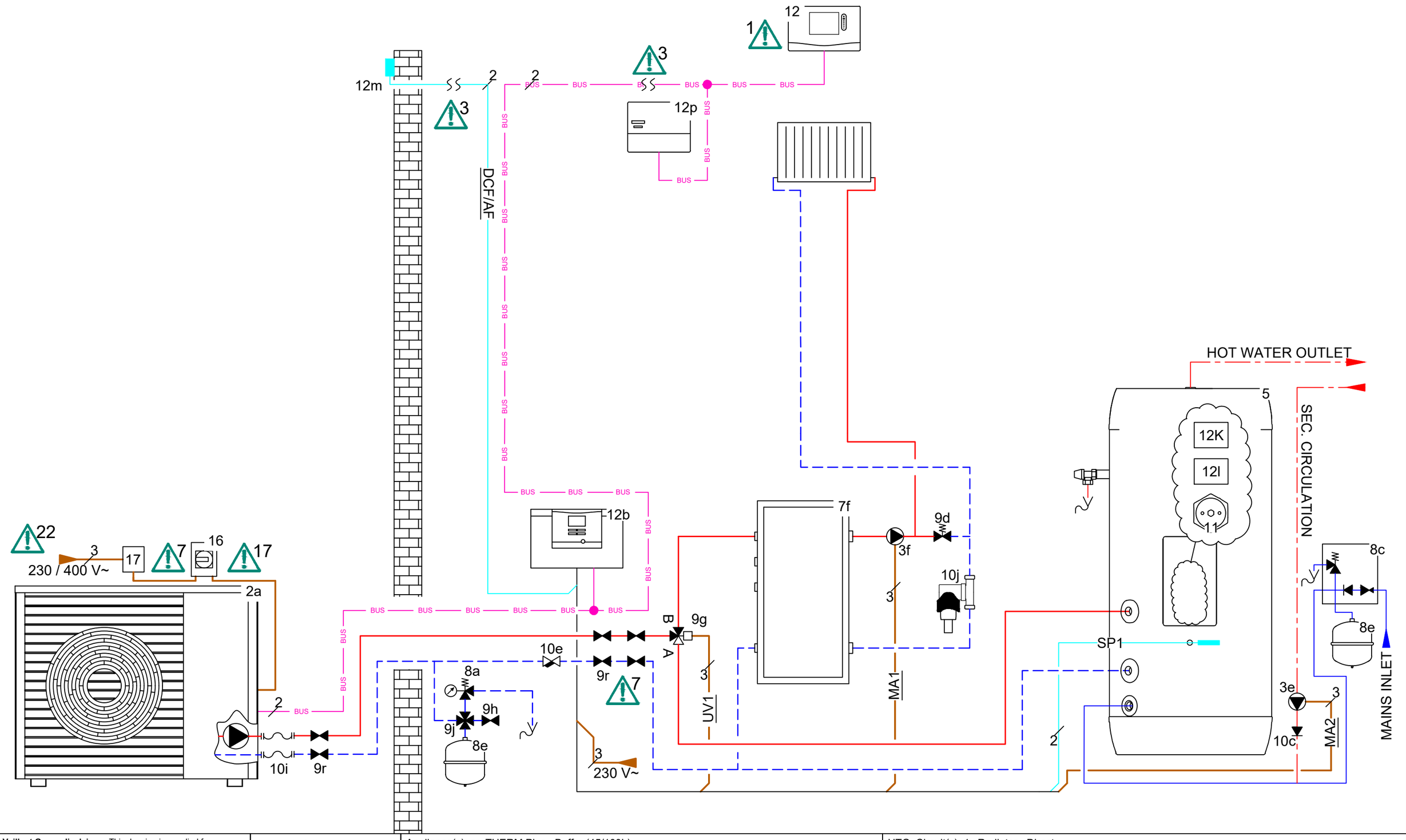
7. Optional for metering purposes.
17. Rotary Isolator must be situated outside of the Protective Zone.
22. Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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Drawn: A.RICE

24/08/2023 REV: E

Appliance(s): aroTHERM Plus, Buffer (45/100L)

Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Direct, ,

Domestic Hot Water: 1x Cylinder

30110-1011

-See page 2 for detailed wiring.
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22. Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant

12b

Heatpump Interface

230 V~ | 0 ...24 V

230 V~ | 230V~ | MA1 | MA2 | UV1 | ZH | BUS | VF1 | SP1 | DCF / AF | ME | EVU

230V~ | 230V~ | MA1 | MA2 | UV1 | ZH | BUS | VF1 | SP1 | DCF/AF | ME | EVU

230 V~

POST BFR

SEC. CIRC.

DHW / HTG

DHW CYL

12m

3

12p

12

3

2a

Heat Pump 1

0 ...24 V | 400 V~

X206

X200

BUS | 24V= S21 | 24V= S20

+ | -

L1 L2 L3 N

400 V~

230 V~

X200

L1 L2 L3 N

230 V~

22

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Drawn: A.RICE

24/08/2023 | REV: E

Appliance(s): aroTHERM Plus, Buffer (45/100L)

Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Direct, ,

Domestic Hot Water: 1x Cylinder

30110-1011

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sensoCOMFORT System Configuration

Not all settings are displayed, commissioning of the controller should be done diligently; going through each adjustable option with consideration to the property and system requirements.

Setting	Value
Installation	
Adapt. heat curve:	Deactivated
Hybrid manager:	Bivalence pt
Heating bivalence point:	-20°
DHW bivalence point:	-20°
Alternative point:	Off
ESCO:	HP + BUH Off
Back-up boiler:	Off
Basic system diagram config.	
Basic system diagram code:	10
HP control module configuration	
MO 2:	Circulation pump
Circuit 1	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45°
Set-back mode:	Normal
Room temp. mod.:	Expanded
Zone 1	
Zone activated:	Yes
Zone assignment:	Control
Domestic hot water	
Cylinder:	Active
Anti-legio. day:	**User preference
Anti-legio. time:	**User preference
Cylinder charging offset:	15 K
Cyl. charg. anti-cycl. time:	5 min

Vaillant

02	aroTHERM Plus
03e	Secondary Circulation Pump
03f	General Pump
05	uniSTOR DHW Cylinder
07f	45/100L Buffer
08a	Pressure Relief Valve
08c	DHW Inlet Safety Group
08e	Heating / DHW Expansion Vessel
09d	Bypass Valve
09g	Diverter Valve
09h	Fill / Drain Valve
09j	Expansion Vessel Service Valve
09r	Isolation Valve
10c	Non-return Valve
10e	Y Strainer
10i	Flexible Connection
10j	Magnetic Filter
11	Immersion Heater
12	sensoCOMFORT
12b	Heat Pump Interface
12K	High Limit Cut Out
12l	Cylinder Thermostat
12m	Outdoor Temperature Sensor
12p	Wireless Reciever
16	Rotary Isolator
17	Electric Meter

REV	DATE	DESCRIPTION
E	24/08/2023	Added aroTHEM Plus 400v option
		Updated ESCO settings

Domestic Cold Water
Domestic Hot Water
Heating Flow
Heating Return
Glycol Flow
Glycol Return

230/400V Wire
Low Voltage Sensor Wire
Low Voltage eBUS
Low Voltage Demand Signal
eBUS +
eBUS -

Indicates Cable Junction

Indicates No. of cable cores

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Drawn: A.RICE
24/08/2023 REV: E

Appliance(s): aroTHERM Plus, Buffer (45/100L)
Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Direct, ,
Domestic Hot Water: 1x Cylinder

30111-1011

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
5. DPDT Relay (not supplied by Vaillant). See page 2 for detailed wiring.
7. Optional for metering purposes.

17. Rotary Isolator must be situated outside of the Protective Zone
22.Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

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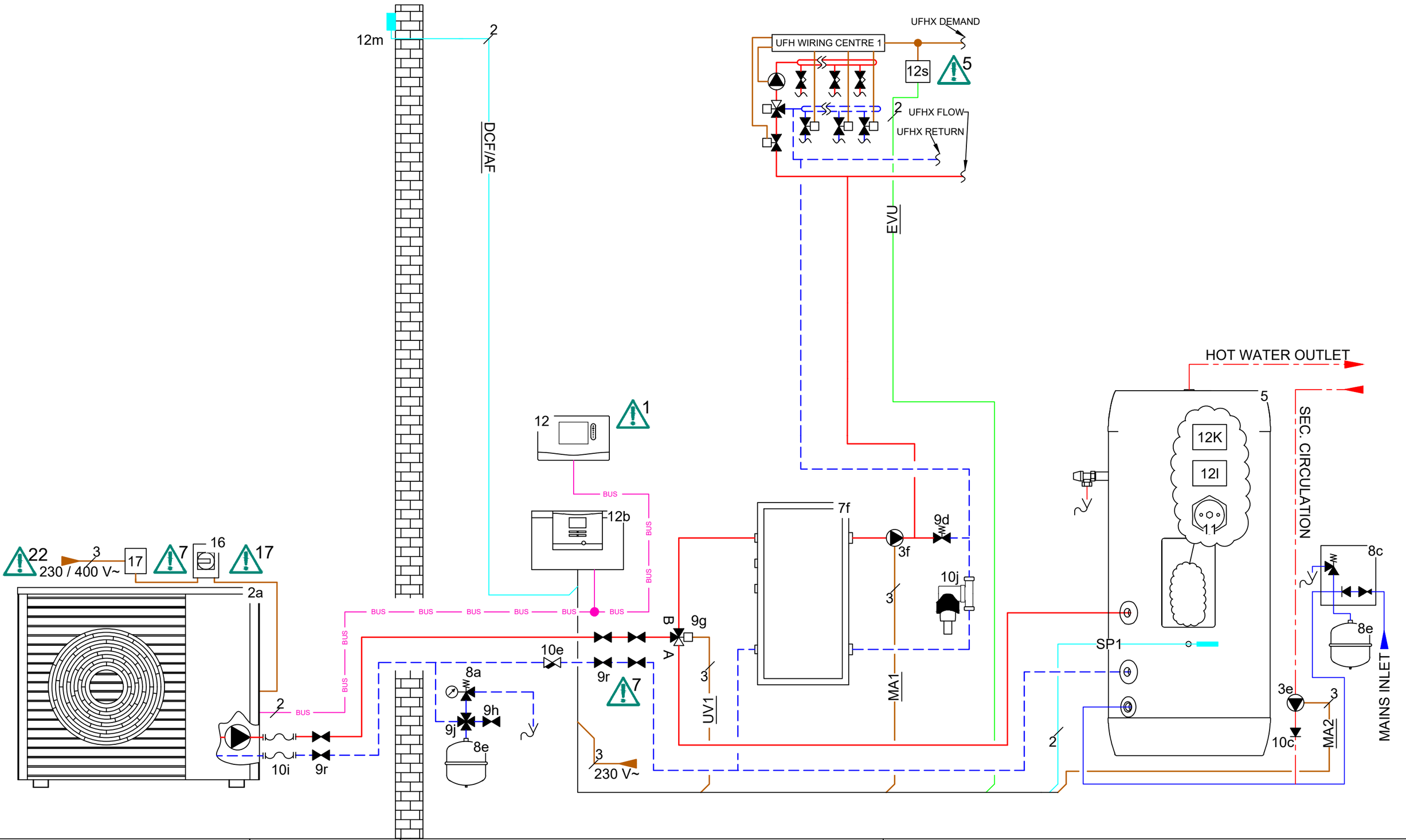

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Drawn: A.RICE

25/08/2023 REV: D

Appliance(s): aroTHERM Plus, Buffer (45/100L Buffer)

Control(s): sencoCOMFORT (VRC720)

HTG. Circuit(s): 1x UFH(X) - 3rd Party, ,

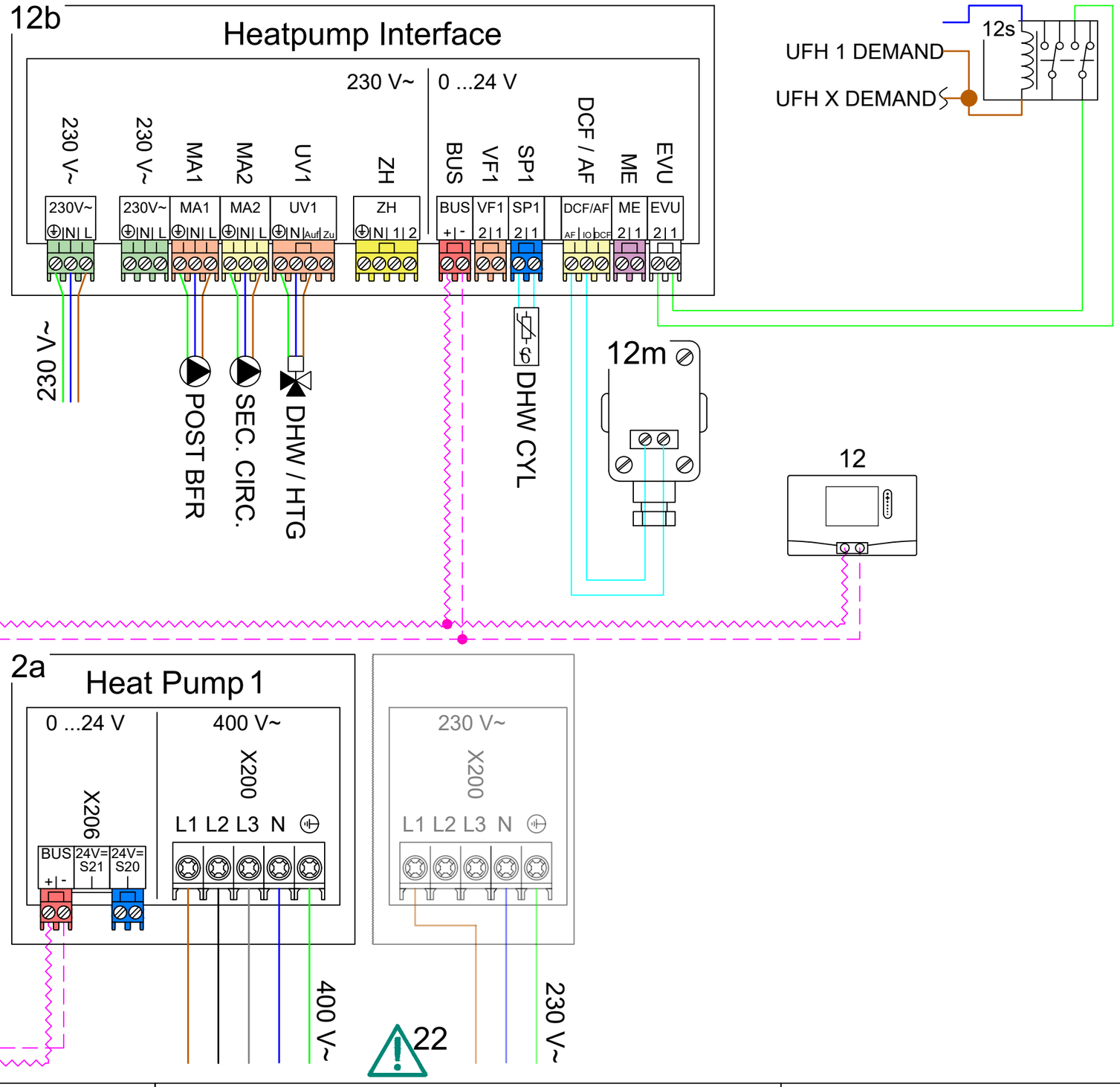
Domestic Hot Water: 1x Cylinder

30111-1011

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
5. DPDT Relay (not supplied by Vaillant). See page 2 for detailed wiring.
7. Optional for metering purposes.

17. Rotary Isolator must be situated outside of the Protective Zone
22.Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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Drawn: A.RICE

25/08/2023 REV: D

Appliance(s): aroTHERM Plus, Buffer (45/100L Buffer)

Control(s): sencoCOMFORT (VRC720)

HTG. Circuit(s): 1x UFH(X) - 3rd Party, ,

Domestic Hot Water: 1x Cylinder

30111-1011

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sensoCOMFORT VRC720/2 System Configuration

Not all settings are displayed, commissioning of the controller should be done diligently; going through each adjustable option with consideration to the property and system requirements.

Setting	Value
Installation	
Adapt. heat curve:	Deactivated
Hybrid manager:	Bivalence pt
Heating bivalence point:	-20°
DHW bivalence point:	-20°
Alternative point:	Off
ESCO:	Heating off
Back-up boiler:	Off
Basic system diagram config.	
Basic system diagram code:	10
HP control module configuration	
MO 2:	Circulation pump
Circuit 1	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45°
Set-back mode:	Eco
Room temp. mod.:	Inactive
Zone 1	
Zone activated:	Yes
Zone assignment:	No assignmt

Setting	Value
Domestic hot water	
Cylinder:	Active
Anti-legio. day:	**User preference
Anti-legio. time:	**User preference
Cylinder charging offset:	15 K
Cyl. charg. anti-cycl. time:	5 min

02	aroTHERM Plus
03e	Secondary Circulation Pump
03f	General Pump
05	uniSTOR DHW Cylinder
07f	45/100L Buffer
08a	Pressure Relief Valve
08c	DHW Inlet Safety Group
08e	Heating / DHW Expansion Vessel
09d	Bypass Valve
09g	Diverter Valve
09h	Fill / Drain Valve
09j	Expansion Vessel Service Valve
09r	Isolation Valve
10c	Non-return Valve
10e	Y Strainer
10i	Flexible Connection
10j	Magnetic Filter
11	Immersion Heater
12	sensoCOMFORT
12b	Heat Pump Interface
12K	High Limit Cut Out
12l	Cylinder Thermostat
12m	Outdoor Temperature Sensor
16	Rotary Isolator
17	Electric Meter

REV	DATE	DESCRIPTION
D	25/08/2023	Added aroTHERM Plus 400V option
		-

Domestic Cold Water
Domestic Hot Water
Heating Flow
Heating Return
Glycol Flow
Glycol Return

230/400V Wire
Low Voltage Sensor Wire
Low Voltage eBUS — BUS
Low Voltage Demand Signal
eBUS +
eBUS -

Indicates Cable Junction — BUS
Indicates No. of cable cores — 3

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Drawn: A.RICE
25/08/2023 REV: D

Appliance(s): aroTHERM Plus, Buffer (45/100L Buffer)
Control(s): sencoCOMFORT (VRC720)

HTG. Circuit(s): 1x UFH(X) - 3rd Party, ,
Domestic Hot Water: 1x Cylinder

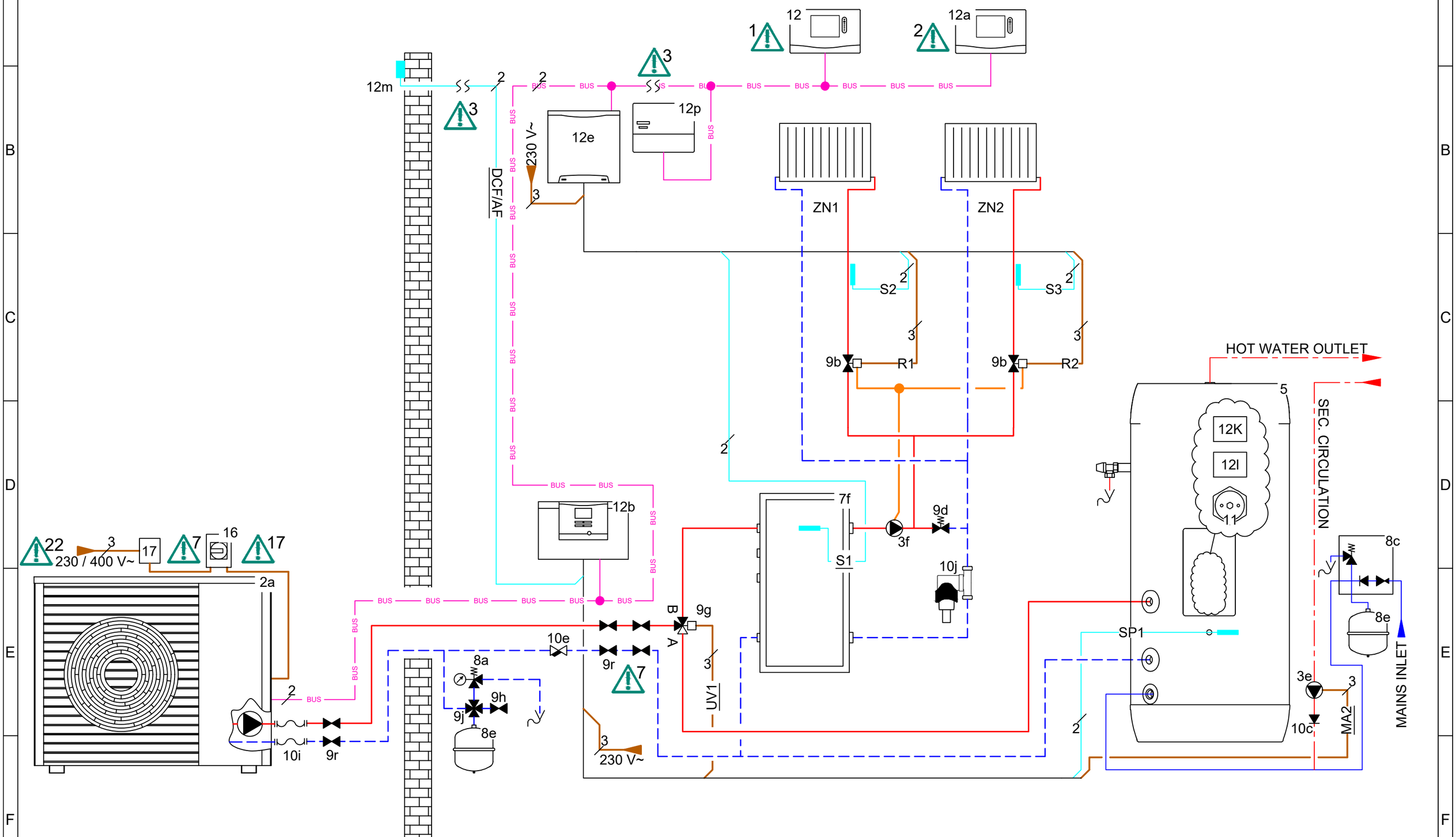
30120-1012

-See page 2 for detailed wiring.

1. See page 3 for relevant controller system configuration settings.
2. Set VR92 remote address to its zone number - 1
   eg. If VR92 is in zone 3, then remote address must be set to 2.
3. Controls and outdoor sensor can be wired or wireless

7. Optional for metering purposes.
17. Rotary Isolator must be situated outside of the Protective Zone
22. Electrical supply voltage depending on the installation and appliance:
230 V, 400 V

Vaillant



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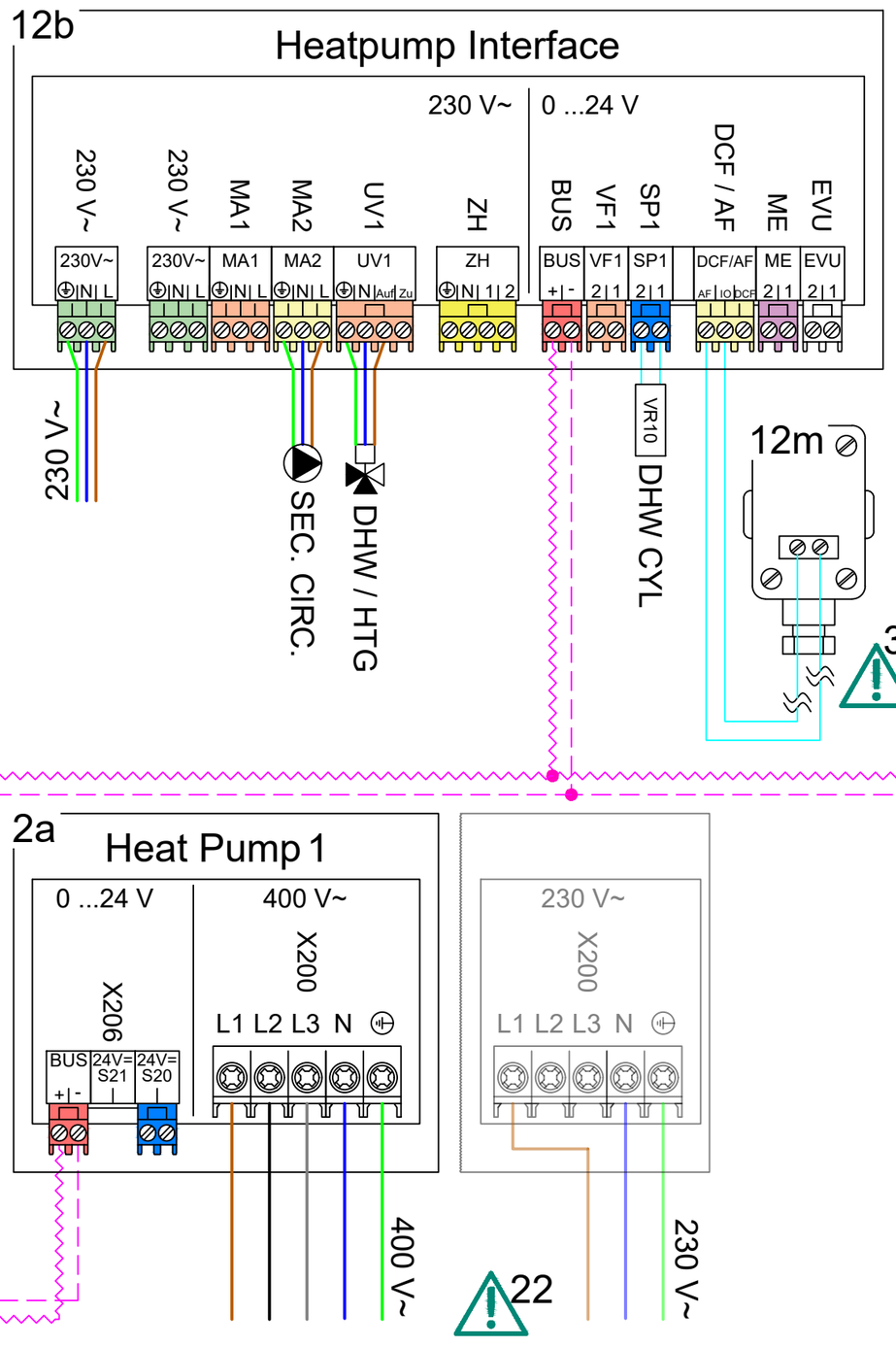
Drawn: A. Rice	Appliance(s): aroTHERM Plus, Buffer (45/100L)	B.	HTG. Circuit(s): 2x Radiator - Direct, ,
16/02/2024 REV: E	Control(s): sensoCOMFORT, VR 92		Domestic Hot Water: 1x Cylinder

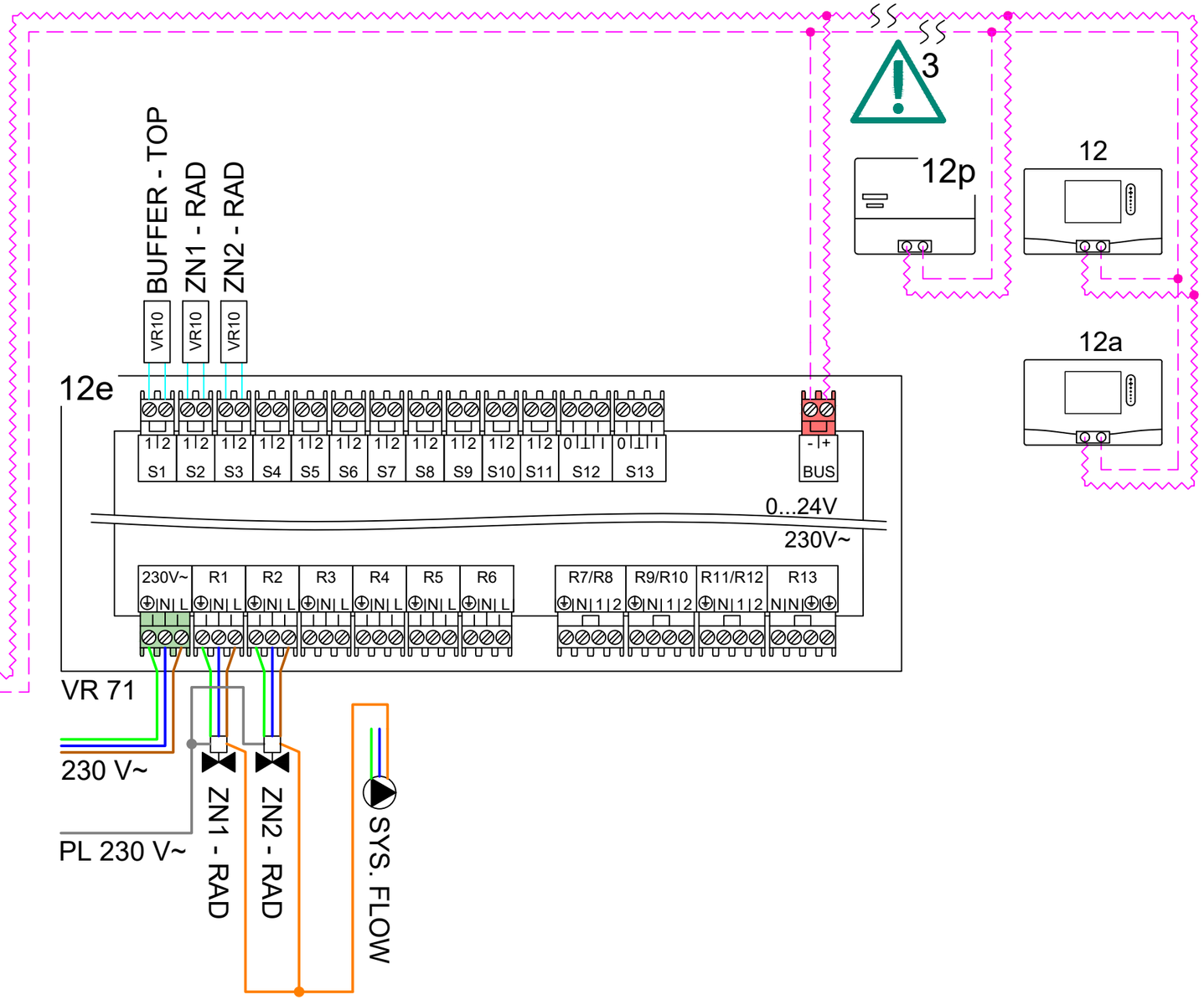
30120-1012

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
2. Set VR92 remote address to its zone number - 1
   eg. If VR92 is in zone 3, then remote address must be set to 2.
3. Controls and outdoor sensor can be wired or wireless

7. Optional for metering purposes.
17. Rotary Isolator must be situated outside of the Protective Zone
22. Electrical supply voltage depending on the installation and appliance:
230 V, 400 V

Vaillant





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Drawn: A. Rice
16/02/2024 REV: E

Appliance(s): aroTHERM Plus, Buffer (45/100L) B.
Control(s): sensoCOMFORT, VR 92

HTG. Circuit(s): 2x Radiator - Direct, ,
Domestic Hot Water: 1x Cylinder

30120-1012

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sensoCOMFORT VRC720/2 System Configuration

Not all settings are displayed, commissioning of the controller should be done diligently; going through each adjustable option with consideration to the property and system requirements.

Setting	Value
Installation	
Adapt. heat curve:	Deactivated
Hybrid manager:	Bivalence pt
Heating bivalence point:	-20°
DHW bivalence point:	-20°
Alternative point:	Off
ESCO:	HP + BUH Off
Back-up boiler:	Off
Conf. ext. input:	Bridge, deactiv.
Basic system diagram config.	
Basic system diagram code:	8
FM5 configuration:	3
FM5 MO:	Not working
HP control module configuration	
MO 2:	Circulation pump
Circuit 1	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45° (Assumed)
Set-back mode:	Normal
Room temp. mod.:	Expanded

Setting	Value
Circuit 2	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45° (Assumed)
Set-back mode:	Normal
Room temp. mod.:	Expanded
Zone 1	
Zone activated:	Yes
Zone assignment:	Control
Zone 2	
Zone activated:	Yes
Zone assignment:	Rem. contr. 1
Domestic hot water	
Cylinder:	Active
Anti-legio. day:	**User preference
Anti-legio. time:	**User preference
Cylinder charging offset:	15 K
Cyl. charg. anti-cycl. time:	5 min

02	aroTHERM Plus
03e	Secondary Circulation Pump
03f	General Pump
05	uniSTOR DHW Cylinder
07f	45/100L Buffer
08a	Pressure Relief Valve
08c	DHW Inlet Safety Group
08e	Heating / DHW Expansion Vessel
09b	Zone Valve
09d	Bypass Valve
09g	Diverter Valve
09h	Fill / Drain Valve
09j	Expansion Vessel Service Valve
09r	Isolation Valve
10c	Non-return Valve
10e	Y Strainer
10i	Flexible Connection
10j	Magnetic Filter
11	Immersion Heater
12	sensoCOMFORT
12a	VR92
12b	Heat Pump Interface
12e	Wiring Centre - VR 71
12K	High Limit Cut Out
12l	Cylinder Thermostat
12m	Outdoor Temperature Sensor
12p	Wireless Reciever
16	Rotary Isolator
17	Electric Meter

REV	DATE	DESCRIPTION	ZONE
F	16/02/2024	Added aroTHERM Plus 400V option	2,E
		Added S1 sensor on buffer	-

Domestic Cold Water
Domestic Hot Water
Heating Flow
Heating Return
Glycol Flow
Glycol Return

230/400V Wire
Low Voltage Sensor Wire
Low Voltage eBUS
Low Voltage Demand Signal
eBUS +
eBUS -

Indicates Cable Junction

Indicates No. of cable cores

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Drawn: A. Rice
16/02/2024 REV: E

Appliance(s): aroTHERM Plus, Buffer (45/100L) B.
Control(s): sensoCOMFORT, VR 92

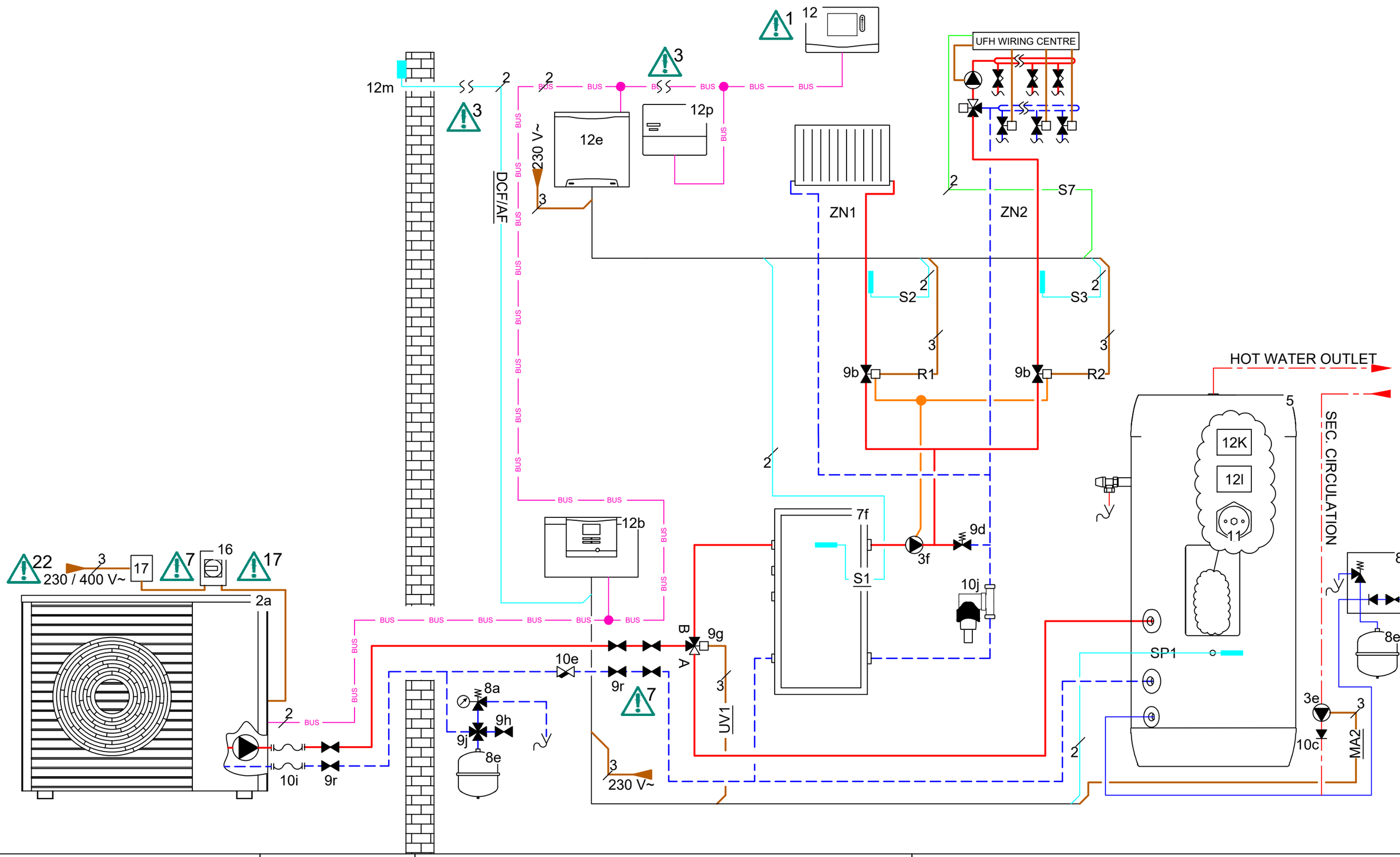
HTG. Circuit(s): 2x Radiator - Direct, ,
Domestic Hot Water: 1x Cylinder

30121-1012-

-See page 2 for detailed wiring.

1. See page 3 for relevant controller system configuration settings.
3. Controls and outdoor sensor can be wired or wireless
4. Link required (not factory fitted).
7. Optional for metering purposes.
17. Rotary Isolator must be situated outside of the Protective Zone
22. Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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Drawn: A.RICE

25/08/2023 REV: G

Appliance(s): aroTHERM Plus, Buffer (45/100L),

Control(s): sensoCOMFORT,

HTG. Circuit(s): 1x Radiator - Direct, 1x UFH - 3rd Party, ----

Domestic Hot Water: 1x Cylinder

30121-1012-

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
3. Controls and outdoor sensor can be wired or wireless
4. Link required (not factory fitted).
7. Optional for metering purposes.
17. Rotary Isolator must be situated outside of the Protective Zone
22. Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant

12b Heatpump Interface

230 V~ | 0 ...24 V

230 V~ | 230V~ | MA1 | MA2 | UV1 | ZH | BUS | VF1 | SP1 | DCF / AF | ME | EVU

230V~ | 230V~ | MA1 | MA2 | UV1 | ZH | BUS +/- | VF1 2/1 | SP1 2/1 | DCF/AF | ME 2/1 | EVU 2/1

230 V~

SEC.CIRC

DHW / HTG

VR10 DHW CYL

12m

3

2a Heat Pump 1

0 ...24 V | 400 V~

X206: BUS +/- | 24V= S21 | 24V= S20

X200: L1 L2 L3 N

400 V~

230 V~

X200: L1 L2 L3 N

230 V~

22

12e

BUFFER-TOP (VR10) | ZN1 - RAD (VR10) | ZN2 - UFH (VR10)

UFH DEMAND

4

1|2 S1 | 1|2 S2 | 1|2 S3 | 1|2 S4 | 1|2 S5 | 1|2 S6 | 1|2 S7 | 1|2 S8 | 1|2 S9 | 1|2 S10 | 1|2 S11 | 0⊥|| S12 | 0⊥|| S13

-|+ BUS

0...24V

230V~

230V~ | R1 | R2 | R3 | R4 | R5 | R6 | R7/R8 | R9/R10 | R11/R12 | R13

230V~ | R1 | R2 | R3 | R4 | R5 | R6 | R7/R8 1|2 | R9/R10 1|2 | R11/R12 1|2 | R13 N|N

VR 71

230 V~

PL 230 V~

ZN1 - RAD

ZN2 - UFH

SYS. FLOW

3

12p

12

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Drawn: A.RICE

25/08/2023 REV: G

Appliance(s): aroTHERM Plus, Buffer (45/100L),

Control(s): sensoCOMFORT,

HTG. Circuit(s): 1x Radiator - Direct, 1x UFH - 3rd Party, ----

Domestic Hot Water: 1x Cylinder

30121-1012-

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sensoCOMFORT VRC720/2 System Configuration

Not all settings are displayed, commissioning of the controller should be done diligently; going through each adjustable option with consideration to the property and system requirements.

Setting	Value
Installation	
Adapt. heat curve:	Deactivated
Hybrid manager:	Bivalence pt
Heating bivalence point:	-20°
DHW bivalence point:	-20°
Alternative point:	Off
ESCO:	HP + BUH Off
Back-up boiler:	Off
Conf. ext. input:	Open, deactiv.
Basic system diagram config.	
Basic system diagram code:	8
FM5 configuration:	3
FM5 MO:	Not working
HP control module configuration	
MO 2:	Circulation pump
Circuit 1	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45°
Set-back mode:	Normal
Room temp. mod.:	Expanded

Setting	Value
Circuit 2	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45°
Set-back mode:	Eco
Room temp. mod.:	Inactive
Zone 1	
Zone activated:	Yes
Zone assignment:	Control
Zone 2	
Zone activated:	Yes
Zone assignment:	No assignmt
Domestic hot water	
Cylinder:	Active
Anti-legio. day:	**User preference
Anti-legio. time:	**User preference
Cylinder charging offset:	15 K
Cyl. charg. anti-cycl. time:	5 min

Vaillant

02	aroTHERM Plus
03e	Secondary Circulation Pump
03f	General Pump
05	uniSTOR DHW Cylinder
07f	45/100L Buffer
08a	Pressure Relief Valve
08c	DHW Inlet Safety Group
08e	Heating / DHW Expansion Vessel
09b	Zone Valve
09d	Bypass Valve
09g	Diverter Valve
09h	Fill / Drain Valve
09j	Expansion Vessel Service Valve
09r	Isolation Valve
10c	Non-return Valve
10e	Y Strainer
10i	Flexible Connection
10j	Magnetic Filter
11	Immersion Heater
12b	Heat Pump Interface
12e	Wiring Centre - VR 71
12K	High Limit Cut Out
12l	Cylinder Thermostat
12m	Outdoor Temperature Sensor
12p	Wireless Reciever
16	Rotary Isolator
17	Electric Meter

REV	DATE	DESCRIPTION	ZONE
G	25/08/2023	Added aroTHERM Plus 400V option	2,E

Domestic Cold Water
Domestic Hot Water
Heating Flow
Heating Return
Cooling Flow
Cooling Return
Glycol Flow
Glycol Return

230/400V Wire
Low Voltage Sensor Wire
Low Voltage eBUS
Low Voltage Demand Signal
eBUS +
eBUS -

Indicates Cable Junction

Indicates No. of cable cores

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Drawn: A.RICE

25/08/2023 REV: G

Appliance(s): aroTHERM Plus, Buffer (45/100L),

Control(s): sensoCOMFORT,

HTG. Circuit(s): 1x Radiator - Direct, 1x UFH - 3rd Party, ----

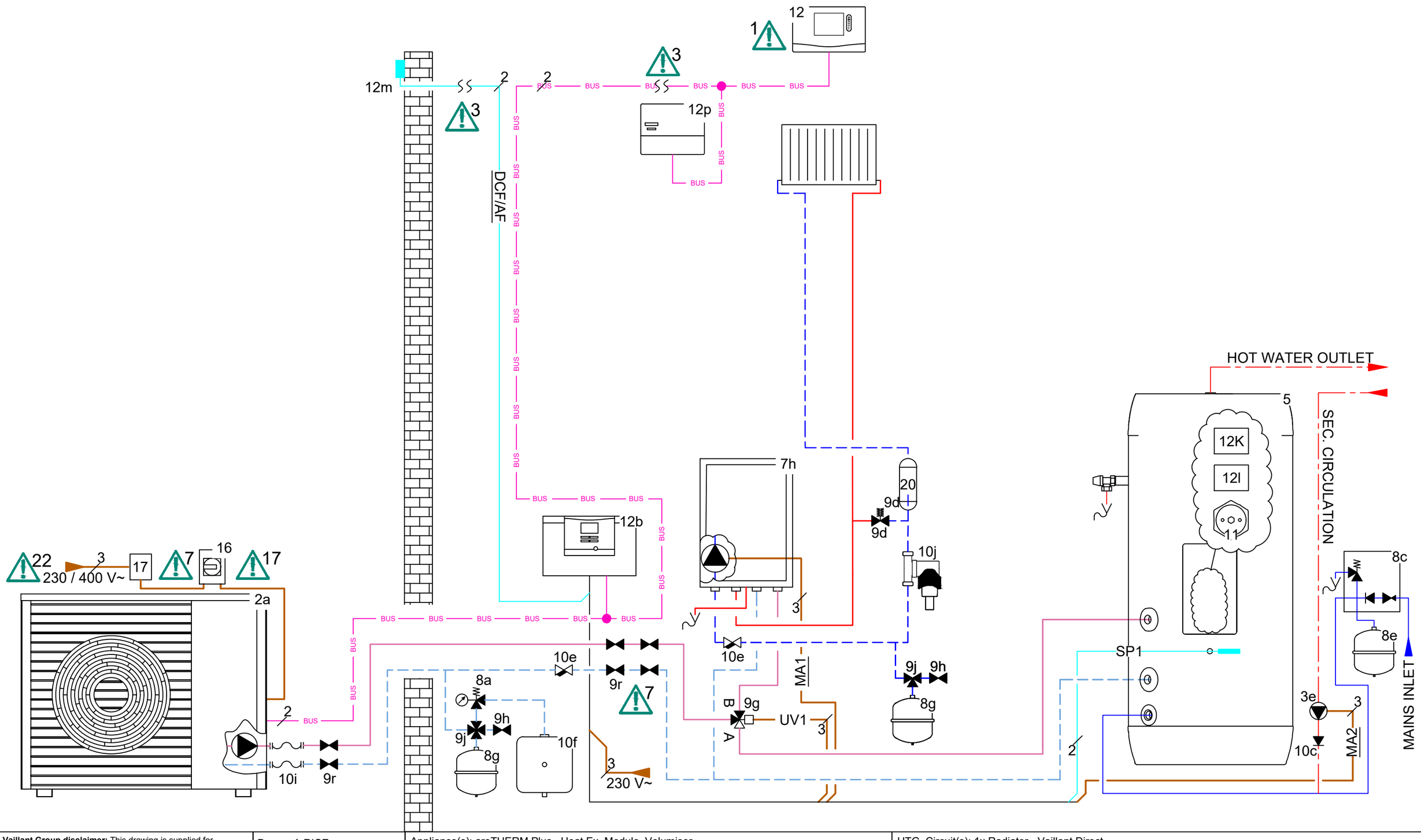
Domestic Hot Water: 1x Cylinder

30130-1011

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
3. Controls and outdoor sensor can be wired or wireless
7. Optional for metering purposes.

17. Rotary Isolator must be situated outside of the Protective Zone
22.Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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Drawn: A.RICE

29/08/2023 REV: E

Appliance(s): aroTHERM Plus, Heat Ex. Module, Volumiser

Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Vaillant Direct, ,

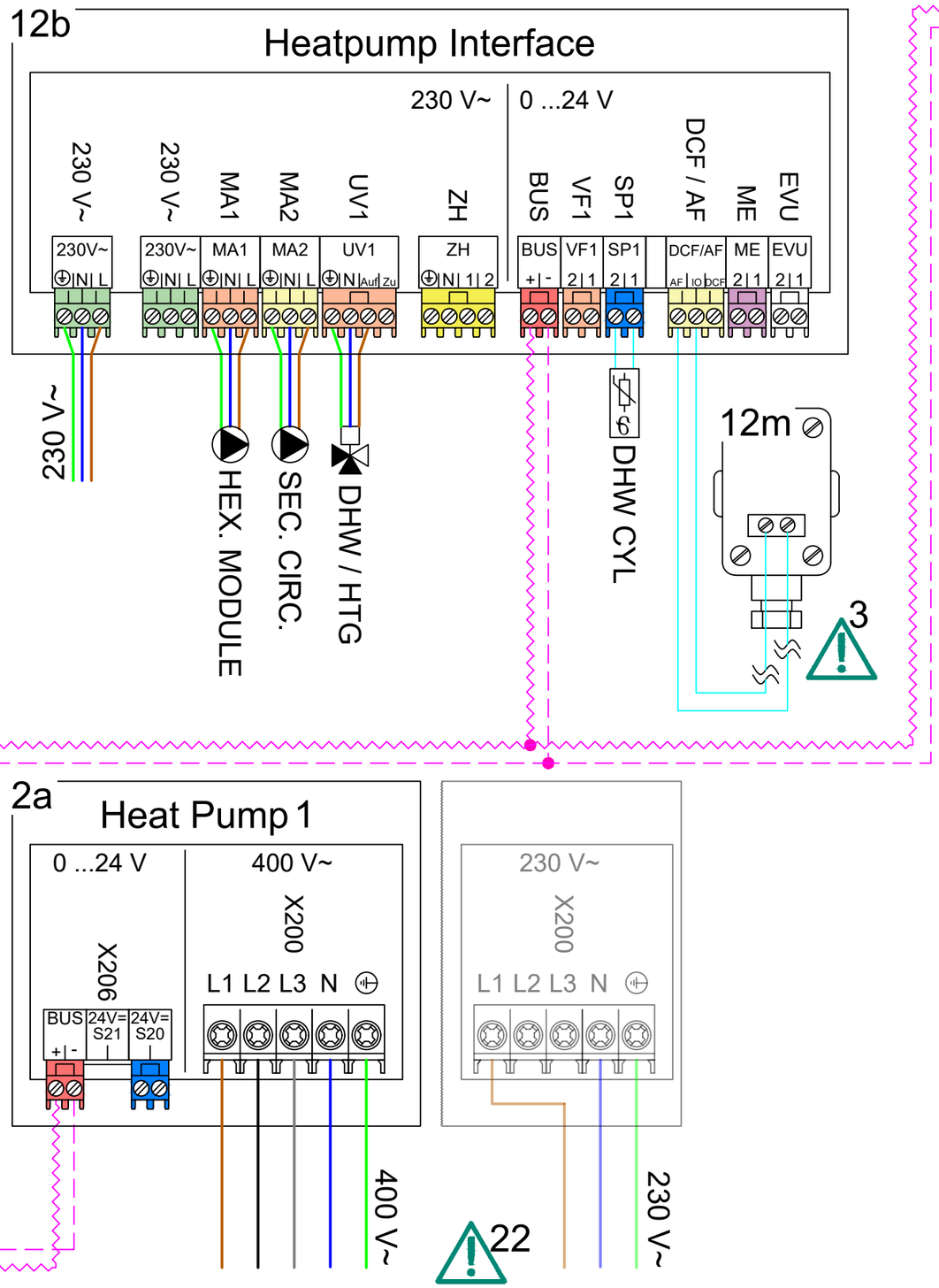
Domestic Hot Water: 1x Cylinder

30130-1011

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
3. Controls and outdoor sensor can be wired or wireless
7. Optional for metering purposes.

17. Rotary Isolator must be situated outside of the Protective Zone
22.Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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Drawn: A.RICE

29/08/2023 REV: E

Appliance(s): aroTHERM Plus, Heat Ex. Module, Volumiser

Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Vaillant Direct, ,

Domestic Hot Water: 1x Cylinder

30130-1011

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sensoCOMFORT VRC 720/2 System Configuration

Not all settings are displayed, commissioning of the controller should be done diligently; going through each adjustable option with consideration to the property and system requirements.

Setting	Value
Installation	
Adapt. heat curve:	Deactivated
Hybrid manager:	Bivalence pt
Heating bivalence point:	-20°
DHW bivalence point:	-20°
Alternative point:	Off
ESCO:	HP + BUH Off
Back-up boiler:	Off
Basic system diagram config.	
Basic system diagram code:	10
HP control module configuration	
MO 2:	Circulation pump
Circuit 1	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45°
Set-back mode:	Normal
Room temp. mod.:	Expanded
Zone 1	
Zone activated:	Yes
Zone assignment:	Control
Domestic hot water	
Cylinder:	Active
Anti-legio. day:	**User preference
Anti-legio. time:	**User preference
Cylinder charging offset:	15 K
Cyl. charg. anti-cycl. time:	5 min

Vaillant

02	aroTHERM Plus
03e	Secondary Circulation Pump
05	uniSTOR DHW Cylinder
07h	HEX. Module
08a	Pressure Relief Valve
08c	DHW Inlet Safety Group
08e	Heating / DHW Expansion Vessel
08g	Brine Expansion Vessel
09d	Bypass Valve
09g	Diverter Valve
09h	Fill / Drain Valve
09j	Expansion Vessel Service Valve
09r	Isolation Valve
10c	Non-return Valve
10e	Y Strainer
10f	Brine Collection Tank
10i	Flexible Connection
10j	Magnetic Filter
11	Immersion Heater
12b	Heat Pump Interface
12K	High Limit Cut Out
12l	Cylinder Thermostat
12m	Outdoor Temperature Sensor
12p	Wireless Reciever
16	Rotary Isolator
17	Electric Meter
20	System Volumiser

REV	DATE	DESCRIPTION
E	29/08/2023	Added aroTHERM Plus 400V option

Domestic Cold Water
Domestic Hot Water
Heating Flow
Heating Return
Glycol Flow
Glycol Return

230/400V Wire
Low Voltage Sensor Wire
Low Voltage eBUS
Low Voltage Demand Signal
eBUS +
eBUS -

Indicates Cable Junction

Indicates No. of cable cores

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Drawn: A.RICE
29/08/2023 REV: E

Appliance(s): aroTHERM Plus, Heat Ex. Module, Volumiser
Control(s): sensoCOMFORT

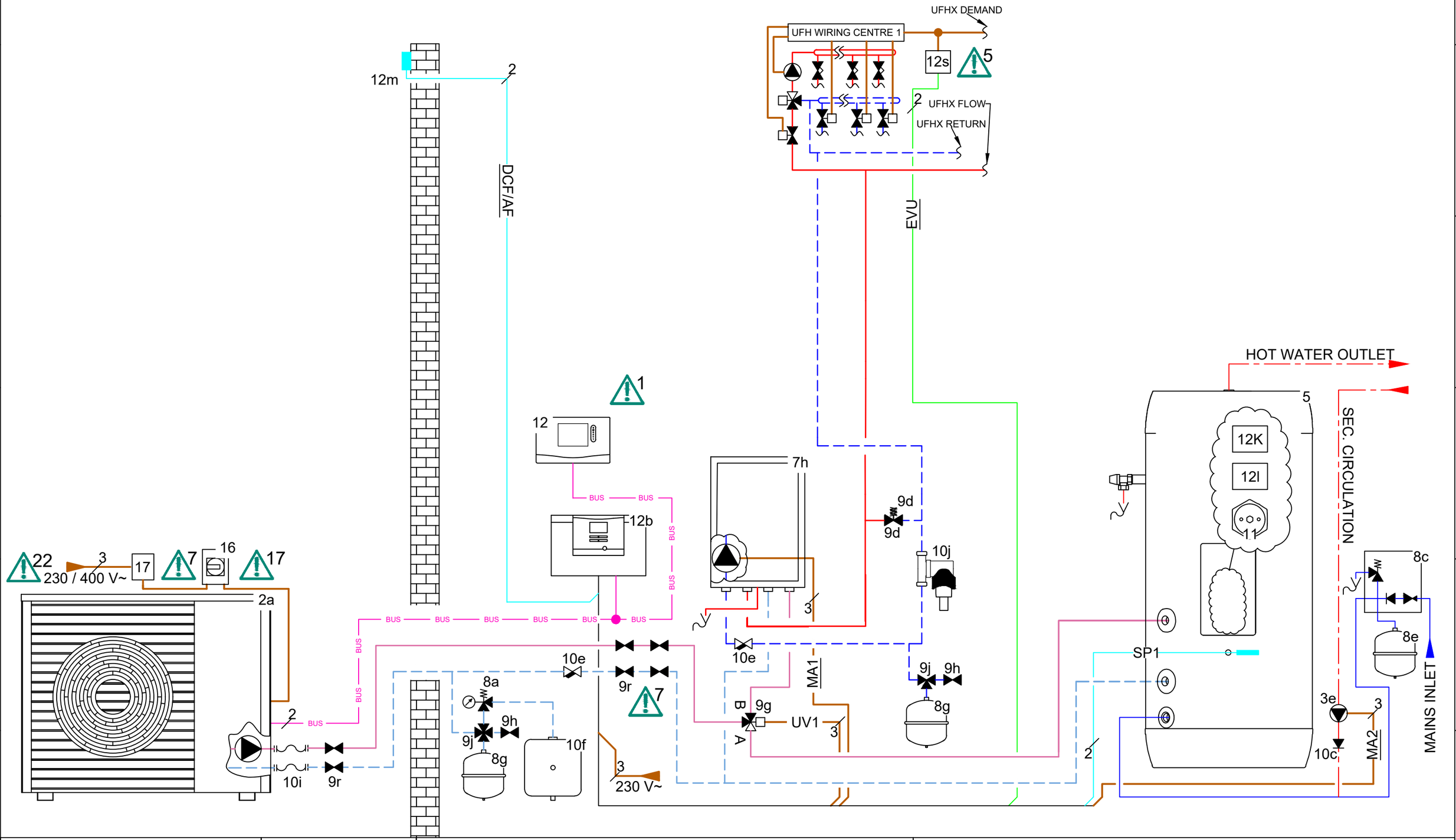
HTG. Circuit(s): 1x Radiator - Vaillant Direct, ,
Domestic Hot Water: 1x Cylinder

30131-1011

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
5. DPDT Relay (not supplied by Vaillant). See page 2 for detailed wiring.
7. Optional for metering purposes

17. Rotary Isolator must be situated outside of the Protective Zone
22.Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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Drawn: A.RICE

29/08/2023 REV: D

Appliance(s): aroTHERM Plus, Heat Ex. Module

Control(s): VRC 720

HTG. Circuit(s): 1x UFH(X) - 3rd Party, ,

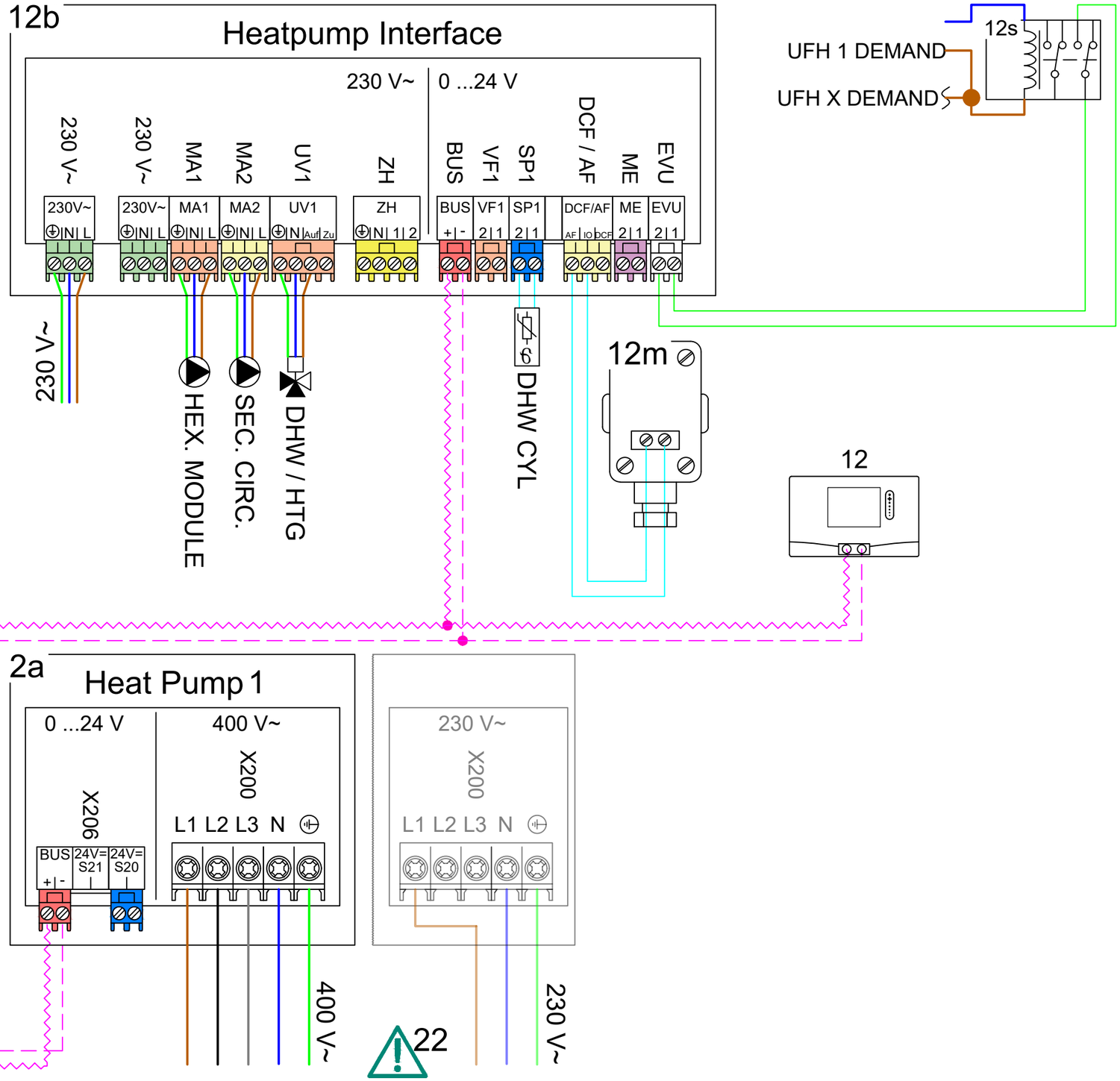
Domestic Hot Water: 1x Cylinder

30131-1011

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
5. DPDT Relay (not supplied by Vaillant). See page 2 for detailed wiring.
7. Optional for metering purposes

17. Rotary Isolator must be situated outside of the Protective Zone
22.Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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Drawn: A.RICE

29/08/2023 REV: D

Appliance(s): aroTHERM Plus, Heat Ex. Module

Control(s): VRC 720

HTG. Circuit(s): 1x UFH(X) - 3rd Party, ,

Domestic Hot Water: 1x Cylinder

30131-1011

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sensoCOMFORT VRC 720/2 System Configuration

Not all settings are displayed, commissioning of the controller should be done diligently; going through each adjustable option with consideration to the property and system requirements.

Setting	Value
Installation	
Adapt. heat curve:	Deactivated
Hybrid manager:	Bivalence pt
Heating bivalence point:	-20°
DHW bivalence point:	-20°
Alternative point:	Off
ESCO:	Heating off
Back-up boiler:	Off
Basic system diagram config.	
Basic system diagram code:	10
HP control module configuration	
MO 2:	Circulation pump
Circuit 1	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45° (Assumed)
Set-back mode:	Eco
Room temp. mod.:	Inactive
Zone 1	
Zone activated:	Yes
Zone assignment:	No assignmt

Setting	Value
Domestic hot water	
Cylinder:	Active
Anti-legio. day:	**User preference
Anti-legio. time:	**User preference
Cylinder charging offset:	15 K
Cyl. charg. anti-cycl. time:	5 min

02	aroTHERM Plus
03e	Secondary Circulation Pump
05	uniSTOR DHW Cylinder
07h	HEX. Module
08a	Pressure Relief Valve
08c	DHW Inlet Safety Group
08e	Heating / DHW Expansion Vessel
08g	Brine Expansion Vessel
09d	Bypass Valve
09g	Diverter Valve
09h	Fill / Drain Valve
09j	Expansion Vessel Service Valve
09r	Isolation Valve
10c	Non-return Valve
10e	Y Strainer
10f	Brine Collection Tank
10i	Flexible Connection
10j	Magnetic Filter
11	Immersion Heater
12	sensoCOMFORT
12b	Heat Pump Interface
12K	High Limit Cut Out
12l	Cylinder Thermostat
12m	Outdoor Temperature Sensor
16	Rotary Isolator
17	Electric Meter

REV	DATE	DESCRIPTION
D	29/08/2023	Added aroTHERM 400V option

Domestic Cold Water
Domestic Hot Water
Heating Flow
Heating Return
Glycol Flow
Glycol Return

230/400V Wire
Low Voltage Sensor Wire
Low Voltage eBUS
Low Voltage Demand Signal
eBUS +
eBUS -

Indicates Cable Junction

Indicates No. of cable cores (3)

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Drawn: A.RICE
29/08/2023 REV: D

Appliance(s): aroTHERM Plus, Heat Ex. Module
Control(s): VRC 720

HTG. Circuit(s): 1x UFH(X) - 3rd Party, ,
Domestic Hot Water: 1x Cylinder

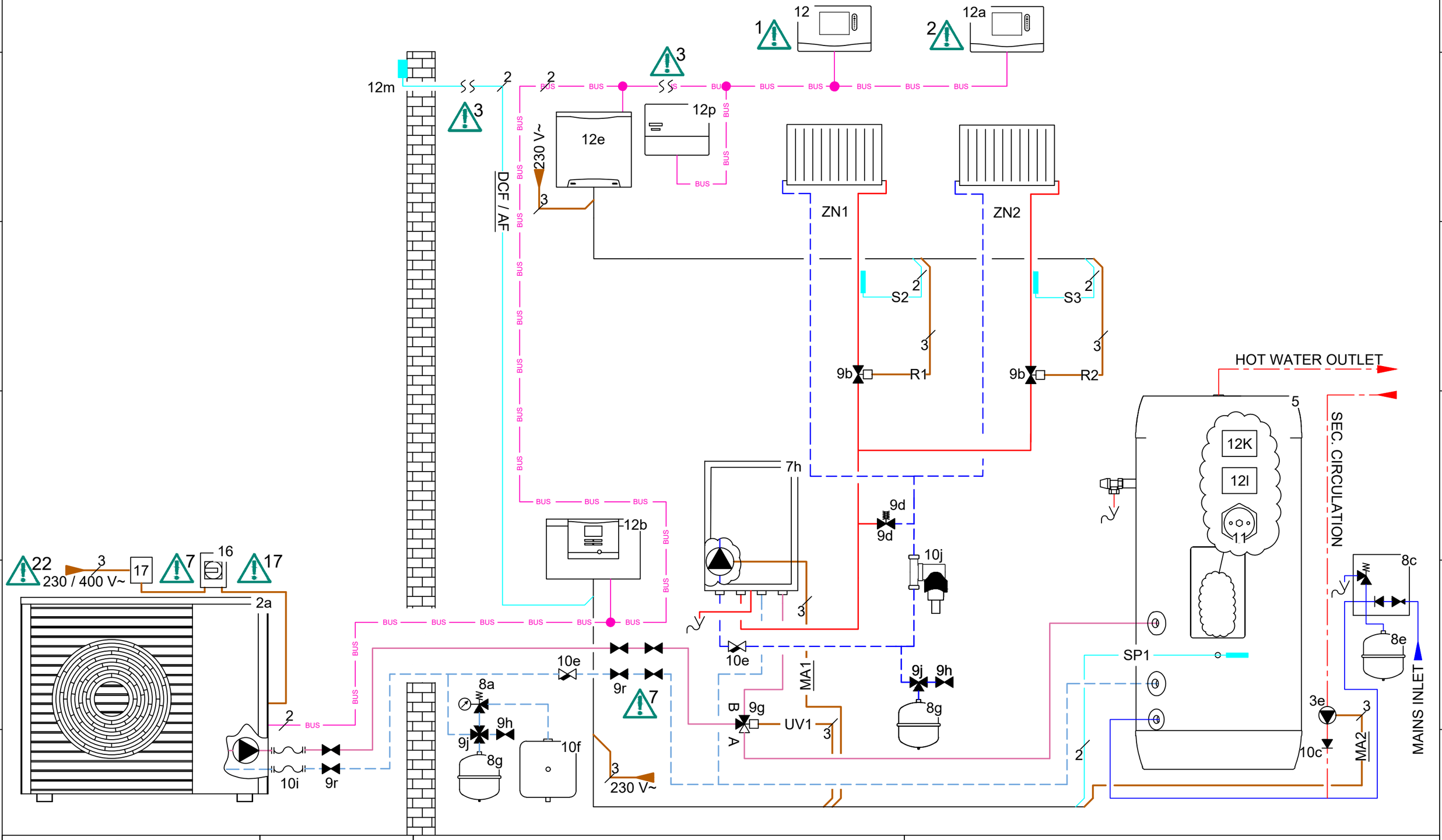
30140-1012

-See page 2 for detailed wiring.

1. See page 3 for relevant controller system configuration settings.
2. Set VR92 remote address to its zone number - 1
   eg. If VR92 is in zone 3, then remote address must be set to 2.

3. Controls and outdoor sensor can be wired or wireless
7. Optional for metering purposes.
17. Rotary Isolator must be situated outside of the Protective Zone
22. Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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Drawn: A.RICE

29/08/2023 REV: D

Appliance(s): aroTHERM Plus, Heat Ex. Module

Control(s): sensoCOMFORT, VR 92

HTG. Circuit(s): 2x Radiator - Vaillant Direct, ,

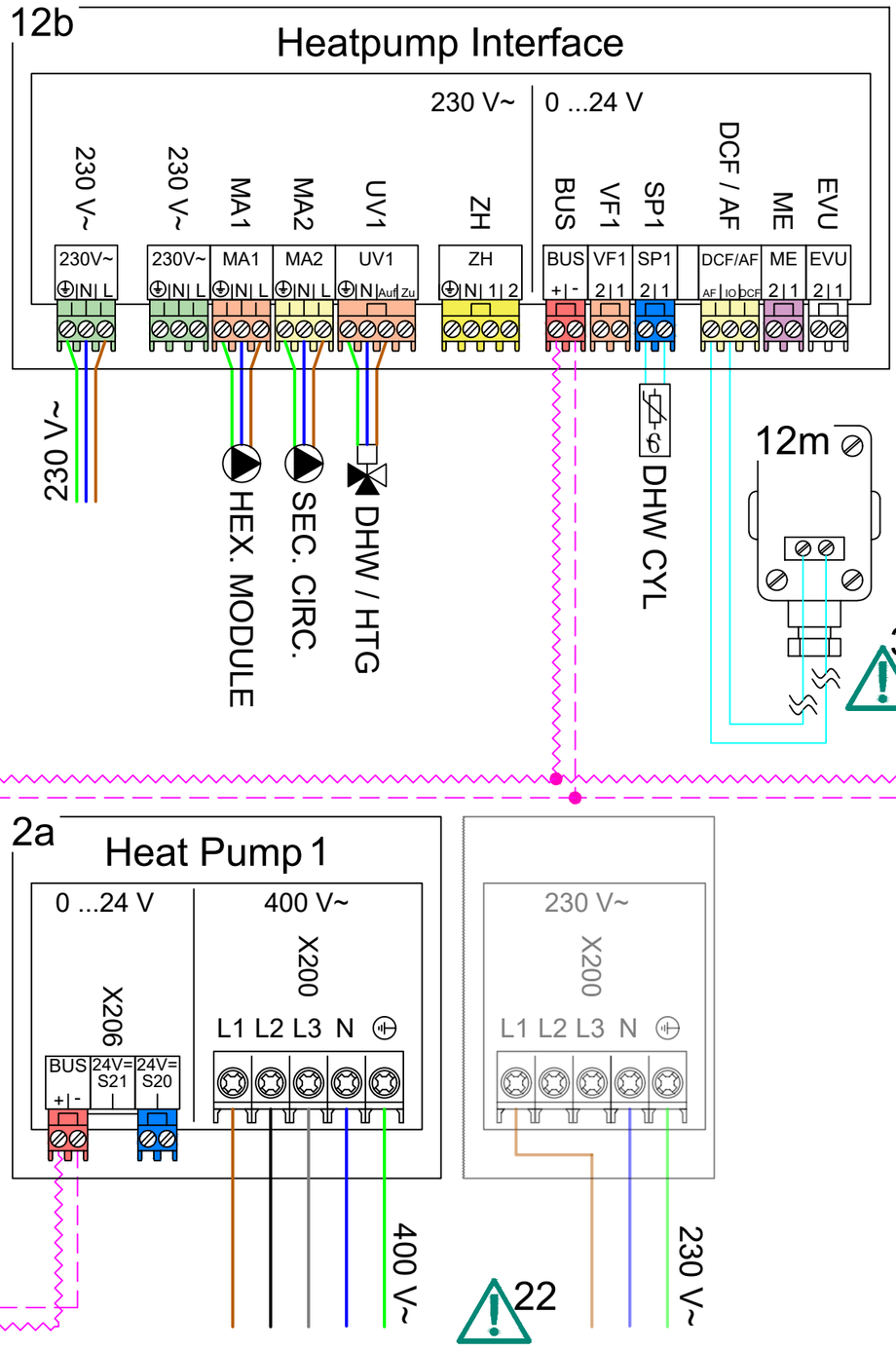
Domestic Hot Water: 1x Cylinder

30140-1012

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
2. Set VR92 remote address to its zone number - 1
   eg. If VR92 is in zone 3, then remote address must be set to 2.

3. Controls and outdoor sensor can be wired or wireless
7. Optional for metering purposes.
17. Rotary Isolator must be situated outside of the Protective Zone
22. Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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Drawn: A.RICE
29/08/2023 REV: D

Appliance(s): aroTHERM Plus, Heat Ex. Module
Control(s): sensoCOMFORT, VR 92

HTG. Circuit(s): 2x Radiator - Vaillant Direct, ,
Domestic Hot Water: 1x Cylinder

30140-1012

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sensoCOMFORT VRC 720/2 System Configuration

Not all settings are displayed, commissioning of the controller should be done diligently; going through each adjustable option with consideration to the property and system requirements.

Setting	Value
Installation	
Adapt. heat curve:	Deactivated
Hybrid manager:	Bivalence pt
Heating bivalence point:	-20°
DHW bivalence point:	-20°
Alternative point:	Off
ESCO:	HP + BUH off
Back-up boiler:	Off
Conf. ext. input:	Bridge, deactiv.
Basic system diagram config.	
Basic system diagram code:	10
FM3 configuration:	3
FM3 MO:	Not working
HP control module configuration	
MO 2:	Circulation pump
Circuit 1	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45° (Assumed)
Set-back mode:	Normal
Room temp. mod.:	Expanded

Setting	Value
Circuit 2	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45° (Assumed)
Set-back mode:	Normal
Room temp. mod.:	Expanded
Zone 1	
Zone activated:	Yes
Zone assignment:	Control
Zone 2	
Zone activated:	Yes
Zone assignment:	Rem. contr. 1
Domestic hot water	
Cylinder:	Active
Anti-legio. day:	**User preference
Anti-legio. time:	**User preference
Cylinder charging offset:	15 K
Cyl. charg. anti-cycl. time:	5 min

02	aroTHERM Plus
03e	Secondary Circulation Pump
05	uniSTOR DHW Cylinder
07h	HEX. Module
08a	Pressure Relief Valve
08g	Brine Expansion Vessel
09b	Zone Valve
09d	Bypass Valve
09g	Diverter Valve
09h	Fill / Drain Valve
09j	Expansion Vessel Service Valve
09r	Isolation Valve
10c	Non-return Valve
10e	Y Strainer
10f	Brine Collection Tank
10i	Flexible Connection
10j	Magnetic Filter
11	Immersion Heater
12	sensoCOMFORT
12a	VR92
12b	Heat Pump Interface
12e	Wiring Centre - VR 71
12K	High Limit Cut Out
12l	Cylinder Thermostat
12m	Outdoor Temperature Sensor
12p	Wireless Reciever
16	Rotary Isolator
17	Electric Meter

REV	DATE	DESCRIPTION	ZONE
D	29/08/2023	Added aroTHERM 400V option	2,E
		Updated ESCO Setting	2,C

Domestic Cold Water
Domestic Hot Water
Heating Flow
Heating Return
Glycol Flow
Glycol Return

230/400V Wire
Low Voltage Sensor Wire
Low Voltage eBUS
Low Voltage Demand Signal
eBUS +
eBUS -

Indicates Cable Junction

Indicates No. of cable cores (3)

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Drawn: A.RICE
29/08/2023 REV: D

Appliance(s): aroTHERM Plus, Heat Ex. Module
Control(s): sensoCOMFORT, VR 92

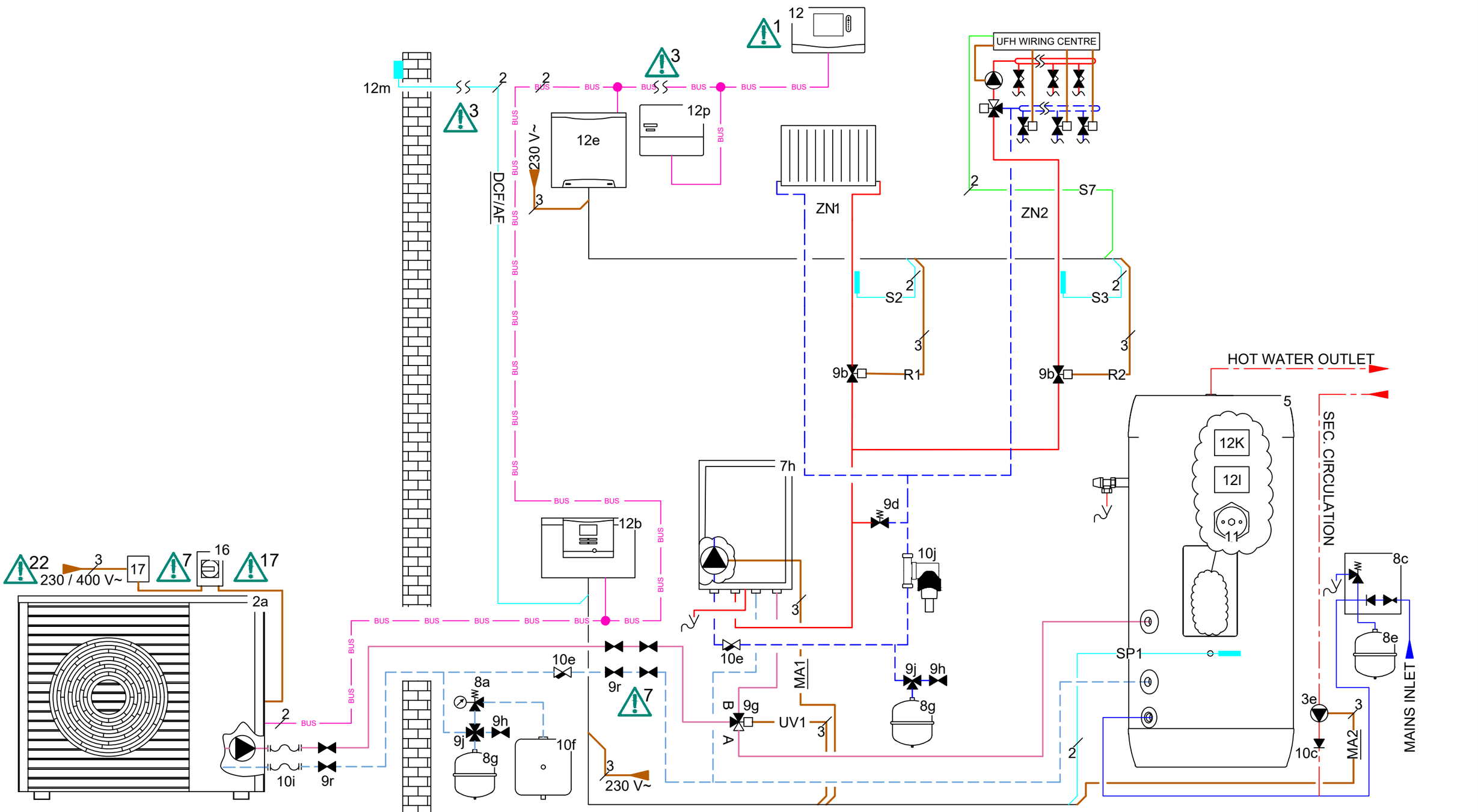
HTG. Circuit(s): 2x Radiator - Vaillant Direct, ,
Domestic Hot Water: 1x Cylinder

30141-1012

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
3. Controls and outdoor sensor can be wired or wireless.
4. Link required (not factory fitted).

7. Optional for metering purposes.
17. Rotary Isolator must be situated outside of the Protective Zone
22. Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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Drawn: A.RICE	
30/08/2023	REV: B

Appliance(s): aroTHERM Plus, Heat Ex. Module

Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Vaillant Direct, 1x UFH - 3rd Party,

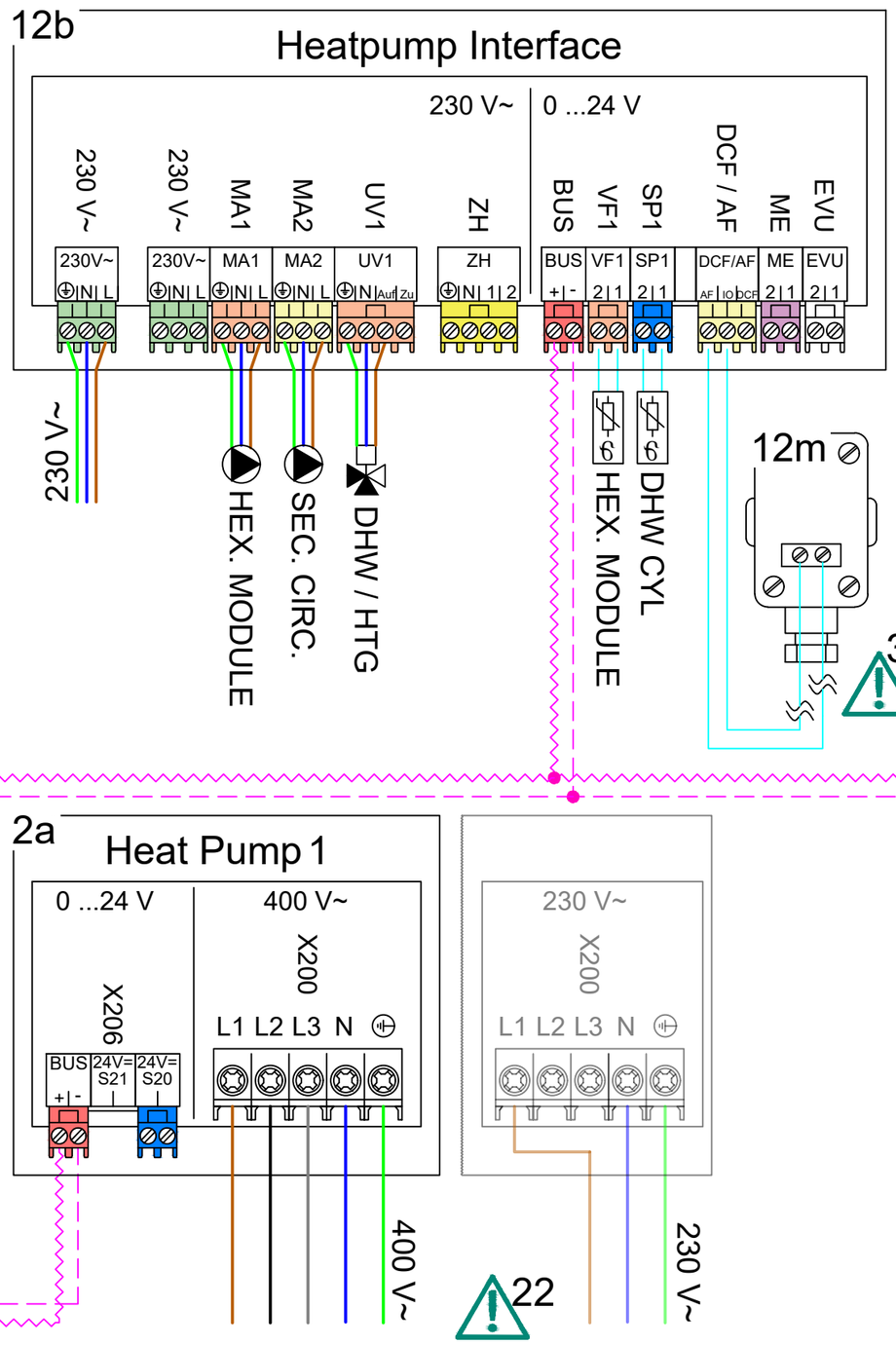
Domestic Hot Water: 1x Cylinder

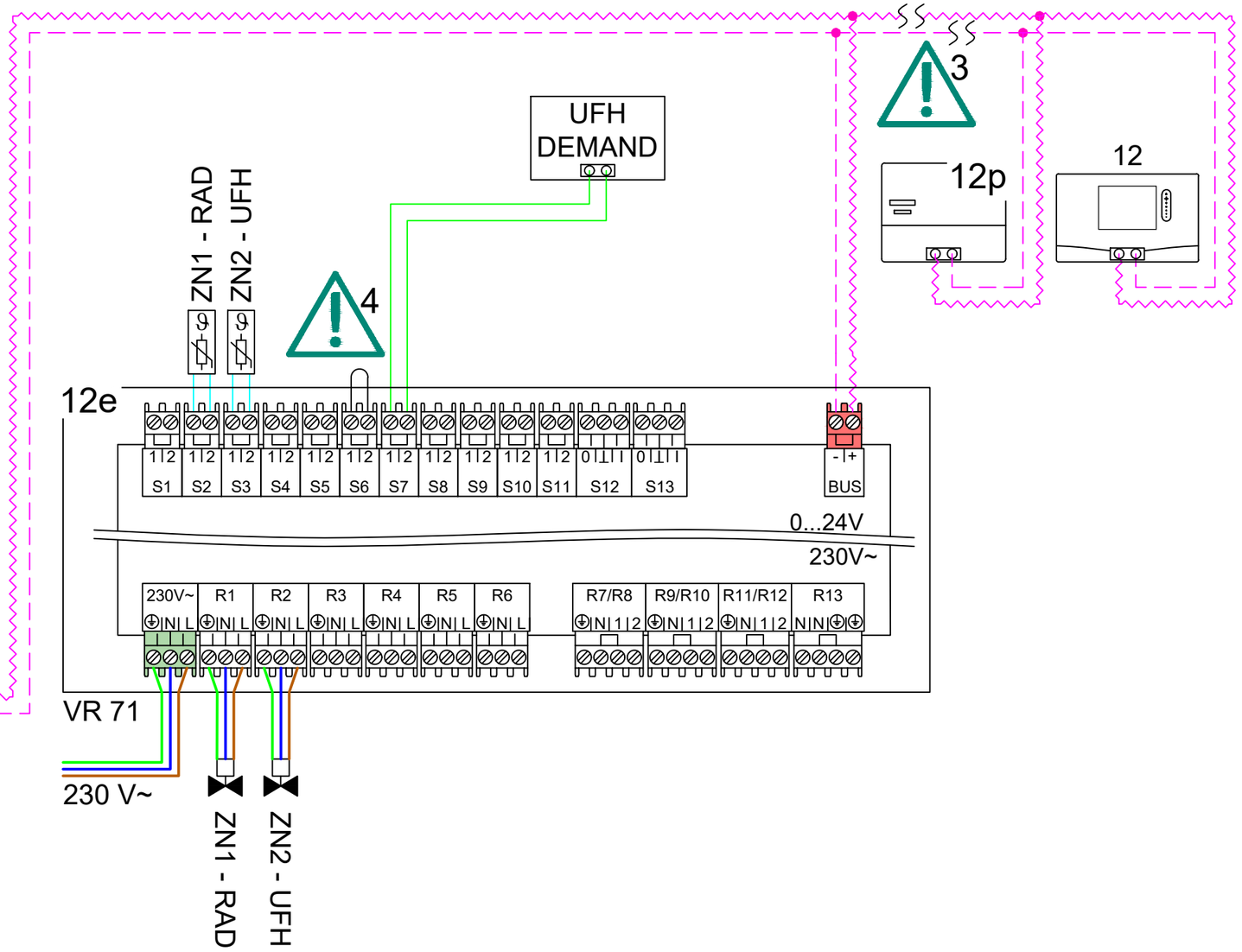
30141-1012

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
3. Controls and outdoor sensor can be wired or wireless.
4. Link required (not factory fitted).

7. Optional for metering purposes.
17. Rotary Isolator must be situated outside of the Protective Zone
22. Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant





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Drawn: A.RICE
30/08/2023 REV: B

Appliance(s): aroTHERM Plus, Heat Ex. Module
Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Vaillant Direct, 1x UFH - 3rd Party,
Domestic Hot Water: 1x Cylinder

30141-1012

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sensoCOMFORT VRC 720/2 System Configuration

Not all settings are displayed, commissioning of the controller should be done diligently; going through each adjustable option with consideration to the property and system requirements.

Setting	Value
Installation	
Adapt. heat curve:	Deactivated
Hybrid manager:	Bivalence pt
Heating bivalence point:	-20°
DHW bivalence point:	-20°
Alternative point:	Off
ESCO:	HP + BUH Off
Back-up boiler:	Off
Conf. ext. input:	Open, deactiv.
Basic system diagram config.	
Basic system diagram code:	10
FM5 configuration:	3
FM5 MO:	Not working
HP control module configuration	
MO 2:	Circulation pump
Circuit 1	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45° (Assumed)
Set-back mode:	Normal
Room temp. mod.:	Expanded

Setting	Value
Circuit 2	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45° (Assumed)
Set-back mode:	Eco
Room temp. mod.:	Inactive
Zone 1	
Zone activated:	Yes
Zone assignment:	Control
Zone 2	
Zone activated:	Yes
Zone assignment:	No assignmt
Domestic hot water	
Cylinder:	Active
Anti-legio. day:	**User preference
Anti-legio. time:	**User preference
Cylinder charging offset:	15 K
Cyl. charg. anti-cycl. time:	5 min

Vaillant

02	aroTHERM Plus
03e	Secondary Circulation Pump
05	uniSTOR DHW Cylinder
07h	HEX. Module
08a	Pressure Relief Valve
08c	DHW Inlet Safety Group
08e	Heating / DHW Expansion Vessel
08g	Brine Expansion Vessel
09b	Zone Valve
09d	Bypass Valve
09g	Diverter Valve
09h	Fill / Drain Valve
09j	Expansion Vessel Service Valve
09r	Isolation Valve
10c	Non-return Valve
10e	Y Strainer
10f	Brine Collection Tank (If applicable)
10i	Flexible Connection
10j	Magnetic Filter
11	Immersion Heater
12b	Heat Pump Interface
12e	Wiring Centre - VR 71
12K	High Limit Cut Out
12l	Cylinder Thermostat
12m	Outdoor Temperature Sensor
12p	Wireless Reciever
16	Rotary Isolator
17	Electric Meter

REV	DATE	DESCRIPTION	ZONE
B	30/08/2023	Added aroTHERM 400V option	2,E
		-	-

Domestic Cold Water
Domestic Hot Water
Heating Flow
Heating Return
Glycol Flow
Glycol Return

230/400V Wire
Low Voltage Sensor Wire
Low Voltage eBUS
Low Voltage Demand Signal
eBUS +
eBUS -

Indicates Cable Junction

Indicates No. of cable cores

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Drawn: A.RICE
30/08/2023 REV: B

Appliance(s): aroTHERM Plus, Heat Ex. Module
Control(s): sensoCOMFORT

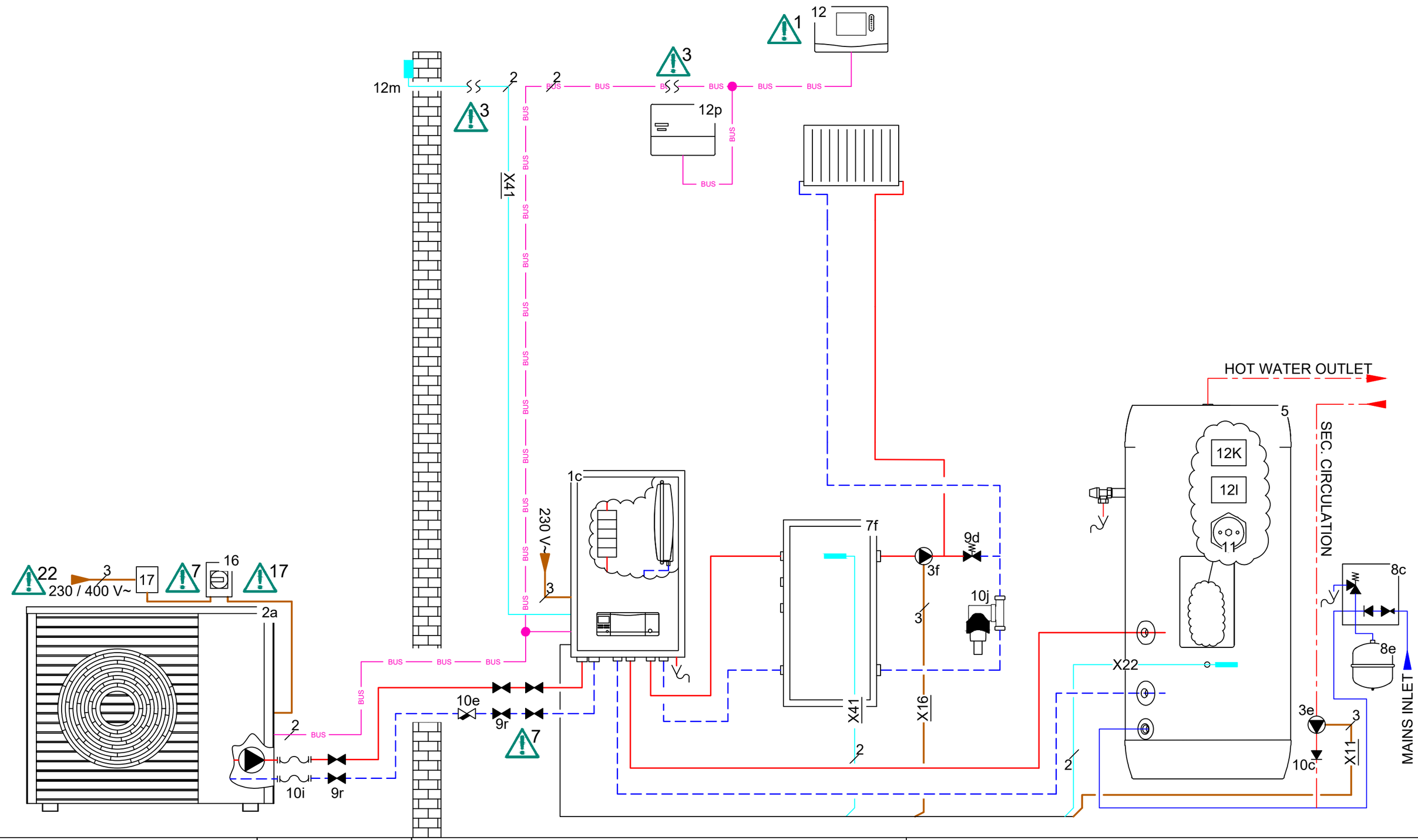
HTG. Circuit(s): 1x Radiator - Vaillant Direct, 1x UFH - 3rd Party,
Domestic Hot Water: 1x Cylinder

30160-1011

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
3. Controls and outdoor sensor can be wired or wireless
7. Optional for metering puposes.

17. Rotary Isolator must be situated outside of the Protective Zone
22.Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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Drawn: A.RICE

22/07/2022 REV: D

Appliance(s): aroTHERM Plus, Hydraulic Station, Buffer (45/100L)

Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Vaillant Direct, ,

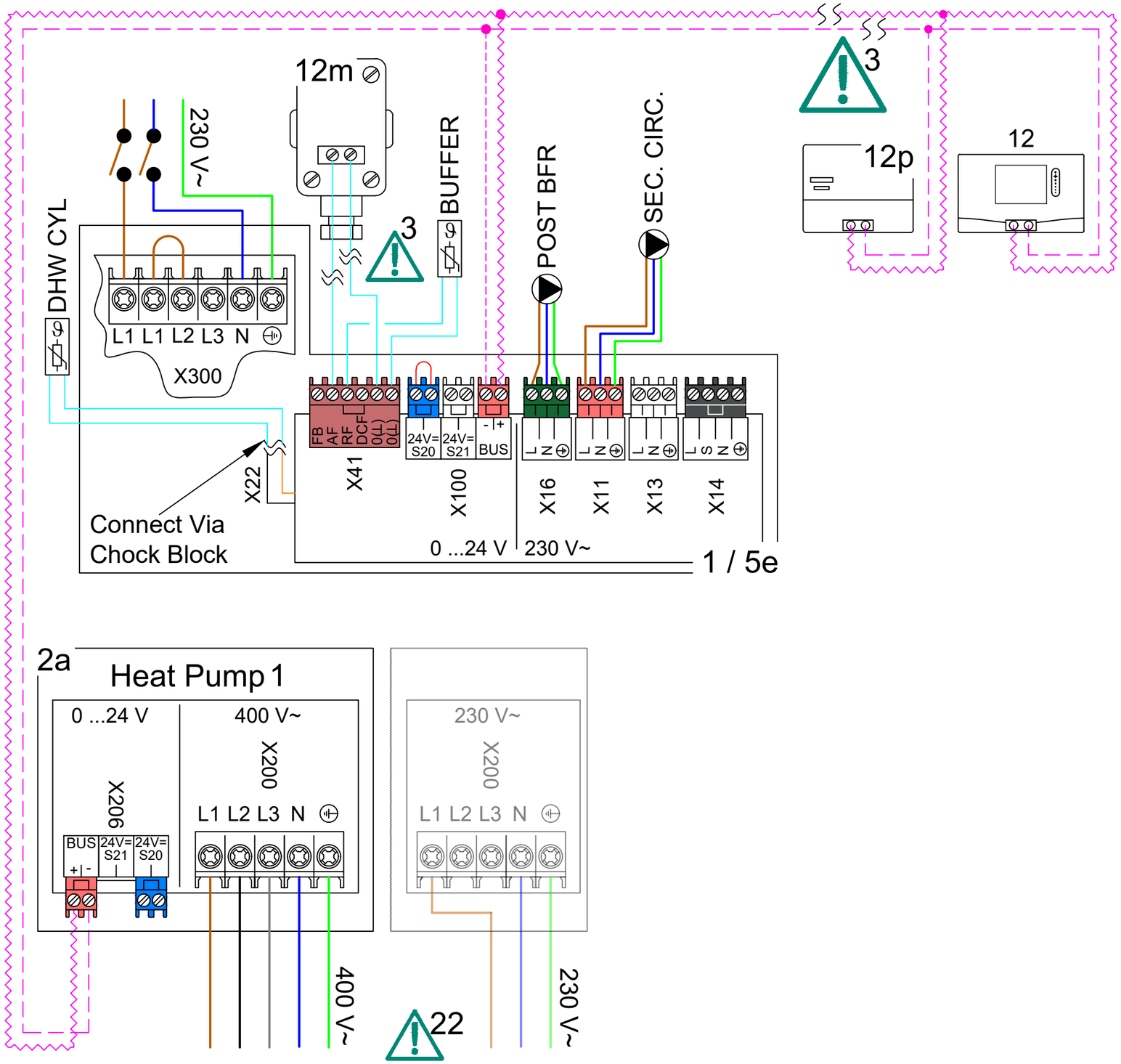
Domestic Hot Water: 1x Cylinder

30160-1011

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
3. Controls and outdoor sensor can be wired or wireless
7. Optional for metering puposes.

17. Rotary Isolator must be situated outside of the Protective Zone
22.Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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Drawn: A.RICE
22/07/2022 REV: D

Appliance(s): aroTHERM Plus, Hydraulic Station, Buffer (45/100L)
Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Vaillant Direct, ,
Domestic Hot Water: 1x Cylinder

30160-1011

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sensoCOMFORT VRC720/2 System Configuration

Not all settings are displayed, commissioning of the controller should be done diligently; going through each adjustable option with consideration to the property and system requirements.

*1 If back-up boiler is set to Off then the back-up heater inside the hydraulic station will not function as support in this setup.

Setting	Value
Installation	
Adapt. heat curve:	Deactivated
Hybrid manager:	Bivalence pt
Heating bivalence point:	-20°
DHW bivalence point:	-20°
Alternative point:	Off
ESCO:	HP + BUH off
Back-up boiler *1:	Off
Conf. ext. input:	Bridge, deactiv.
Basic system diagram config.	
Basic system diagram code:	10
HP control module configuration	
MO 2:	Circulation pump
Circuit 1	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45° (Assumed)
Set-back mode:	Normal
Room temp. mod.:	Expanded
Zone 1	
Zone activated:	Yes
Zone assignment:	Control

Setting	Value
Domestic hot water	
Cylinder:	Active
Anti-legio. day:	**User preference
Anti-legio. time:	**User preference
Cylinder charging offset:	15 K
Cyl. charg. anti-cycl. time:	5 min

01c	Hydraulic Station
02	aroTHERM Plus
03e	Secondary Circulation Pump
03f	General Pump
05	uniSTOR DHW Cylinder
07f	45/100L Buffer
08c	DHW Inlet Safety Group
08e	Heating / DHW Expansion Vessel
09d	Bypass Valve
09r	Isolation Valve
10c	Non-return Valve
10e	Y Strainer
10i	Flexible Connection
10j	Magnetic Filter
11	Immersion Heater
12K	High Limit Cut Out
12l	Cylinder Thermostat
12m	Outdoor Temperature Sensor
12p	Wireless Reciever
16	Rotary Isolator
17	Electric Meter

REV	DATE	DESCRIPTION
D	30/08/2023	Added aroTHERM 400V option

Domestic Cold Water
Domestic Hot Water
Heating Flow
Heating Return
Glycol Flow
Glycol Return

230/400V Wire
Low Voltage Sensor Wire
Low Voltage eBUS
Low Voltage Demand Signal
eBUS +
eBUS -

Indicates Cable Junction
Indicates No. of cable cores

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Drawn: A.RICE
22/07/2022 REV: D

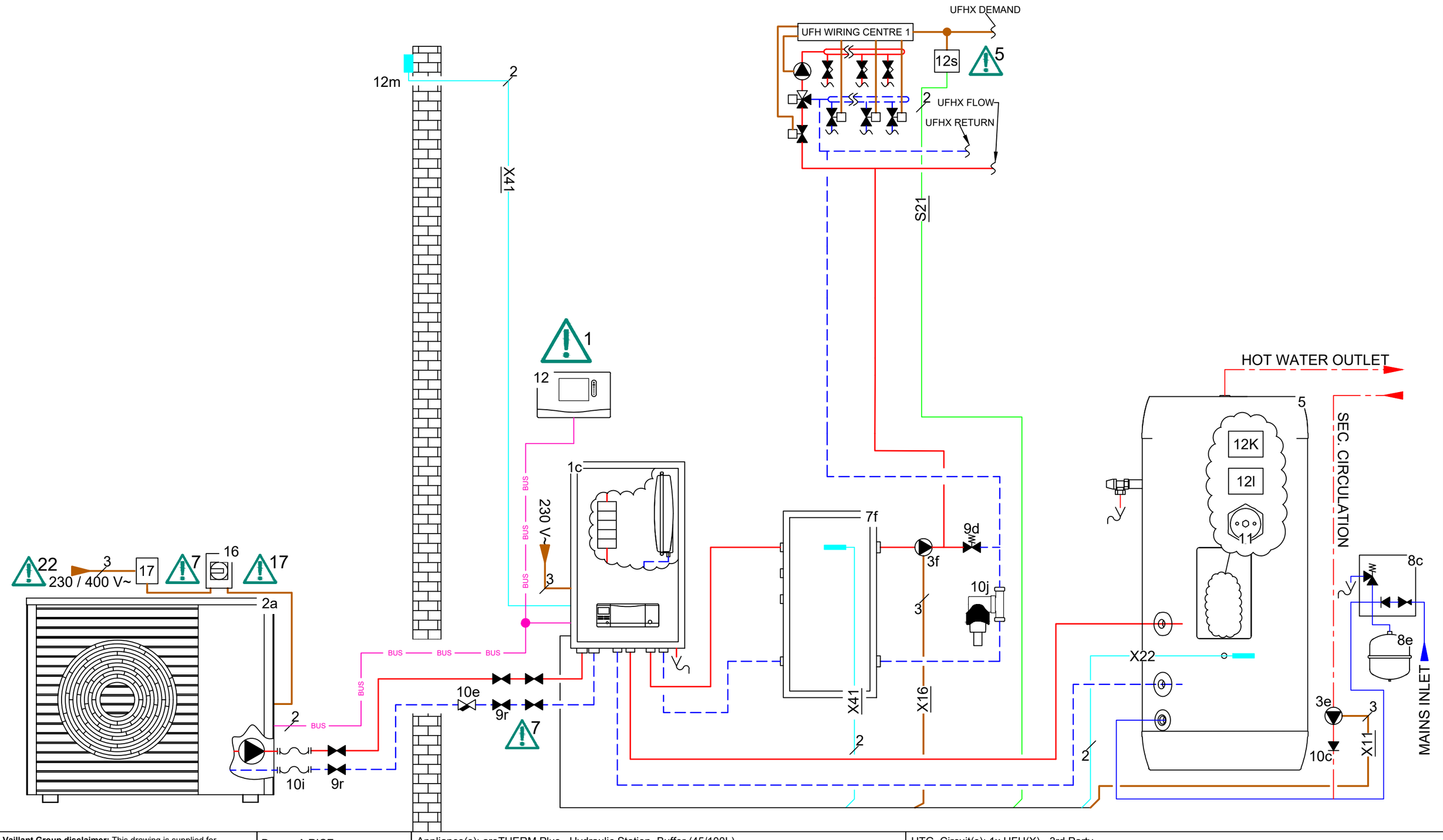
Appliance(s): aroTHERM Plus, Hydraulic Station, Buffer (45/100L)
Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Vaillant Direct, ,
Domestic Hot Water: 1x Cylinder

30161-1011

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
5. DPDT Relay (not supplied by Vaillant). See page 2 for detailed wiring.
7. Optional for metering purposes

17. Rotary Isolator must be situated outside of the Protective Zone
22. Electrical supply voltage depending on the installation and appliance: 230 V, 400 V



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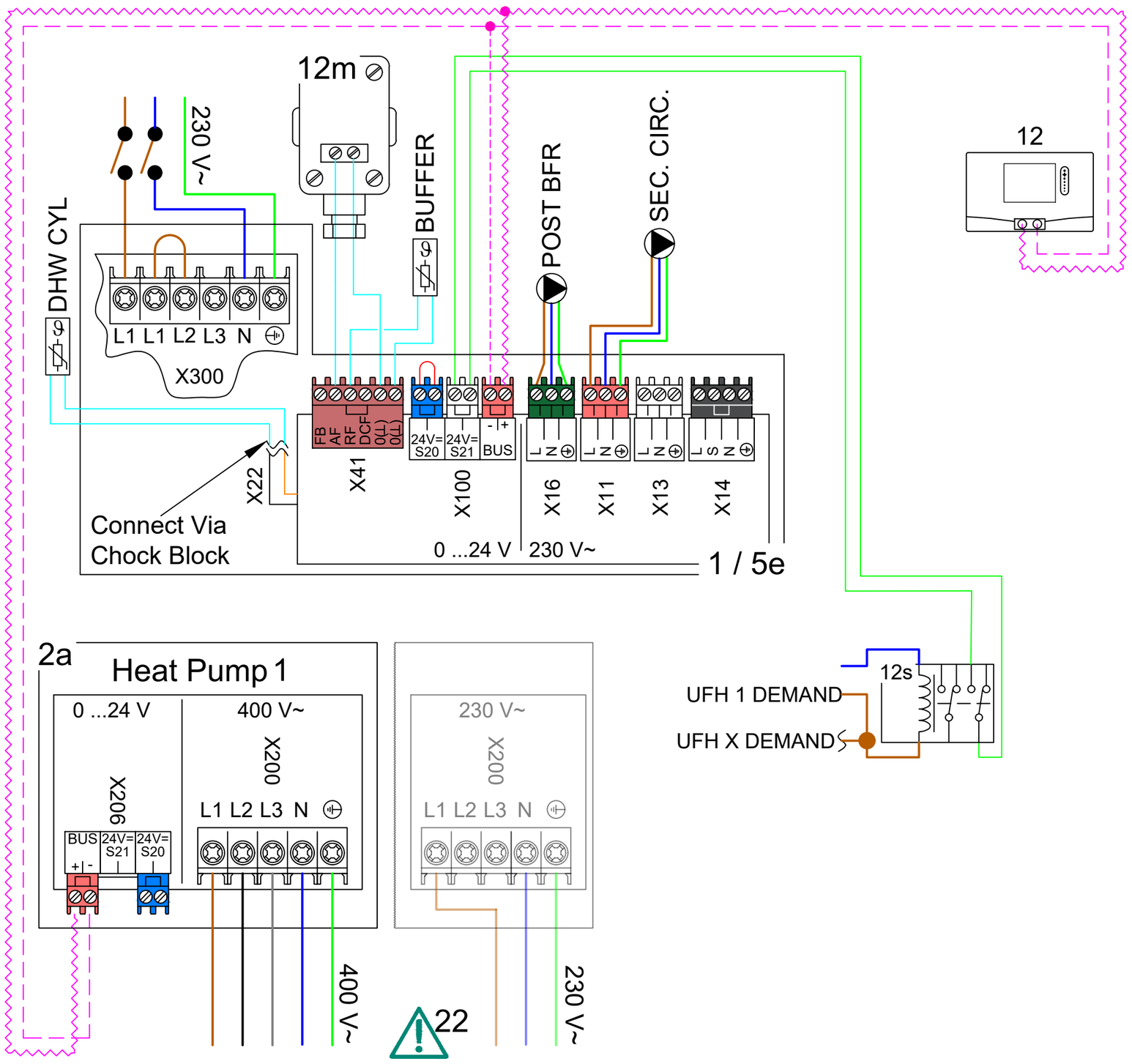
Drawn: A.RICE
30/08/2023 REV: D

Appliance(s): aroTHERM Plus, Hydraulic Station, Buffer (45/100L)
Control(s): sensoCOMFORT VRC720

HTG. Circuit(s): 1x UFH(X) - 3rd Party, ,
Domestic Hot Water: 1x Cylinder

30161-1011

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
5. DPDT Relay (not supplied by Vaillant). See page 2 for detailed wiring.
7. Optional for metering purposes
17. Rotary Isolator must be situated outside of the Protective Zone
22. Electrical supply voltage depending on the installation and appliance: 230 V, 400 V



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Drawn: A.RICE
30/08/2023 REV: D

Appliance(s): aroTHERM Plus, Hydraulic Station, Buffer (45/100L)
Control(s): sensoCOMFORT VRC720

HTG. Circuit(s): 1x UFH(X) - 3rd Party, ,
Domestic Hot Water: 1x Cylinder

30161-1011

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sensoCOMFORT VRC720/2 System Configuration

Not all settings are displayed, commissioning of the controller should be done diligently; going through each adjustable option with consideration to the property and system requirements.

*1 If back-up boiler is set to Off then the back-up heater inside the hydraulic station will not function as support in this setup.

Setting	Value
Installation	
Adapt. heat curve:	Deactivated
Hybrid manager:	Bivalence pt
Heating bivalence point:	-20°
DHW bivalence point:	-20°
Alternative point:	Off
ESCO:	Heating off
Back-up boiler*1 :	Off
Basic system diagram config.	
Basic system diagram code:	10
HP control module configuration	
MO 2:	Circulation pump
Circuit 1	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45°
Set-back mode:	Eco
Room temp. mod.:	Inactive
Zone 1	
Zone activated:	Yes
Zone assignment:	No assignmt

Setting	Value
Domestic hot water	
Cylinder:	Active
Anti-legio. day:	**User preference
Anti-legio. time:	**User preference
Cylinder charging offset:	15 K
Cyl. charg. anti-cycl. time:	5 min

Vaillant

01c	Hydraulic Station
02	aroTHERM Plus
03e	Secondary Circulation Pump
03f	General Pump
05	uniSTOR DHW Cylinder
07f	45/100L Buffer
08c	DHW Inlet Safety Group
08e	Heating / DHW Expansion Vessel
09d	Bypass Valve
09r	Isolation Valve
10c	Non-return Valve
10e	Y Strainer
10i	Flexible Connection
10j	Magnetic Filter
11	Immersion Heater
12	sensoCOMFORT
12K	High Limit Cut Out
12l	Cylinder Thermostat
12m	Outdoor Temperature Sensor
16	Rotary Isolator
17	Electric Meter

REV	DATE	DESCRIPTION
D	30/08/2023	Added aroTHERM Plus 400V option

Domestic Cold Water
Domestic Hot Water
Heating Flow
Heating Return
Glycol Flow
Glycol Return

230/400V Wire
Low Voltage Sensor Wire
Low Voltage eBUS
Low Voltage Demand Signal
eBUS +
eBUS -

Indicates Cable Junction

Indicates No. of cable cores

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Drawn: A.RICE

30/08/2023 REV: D

Appliance(s): aroTHERM Plus, Hydraulic Station, Buffer (45/100L)

Control(s): sensoCOMFORT VRC720

HTG. Circuit(s): 1x UFH(X) - 3rd Party, ,

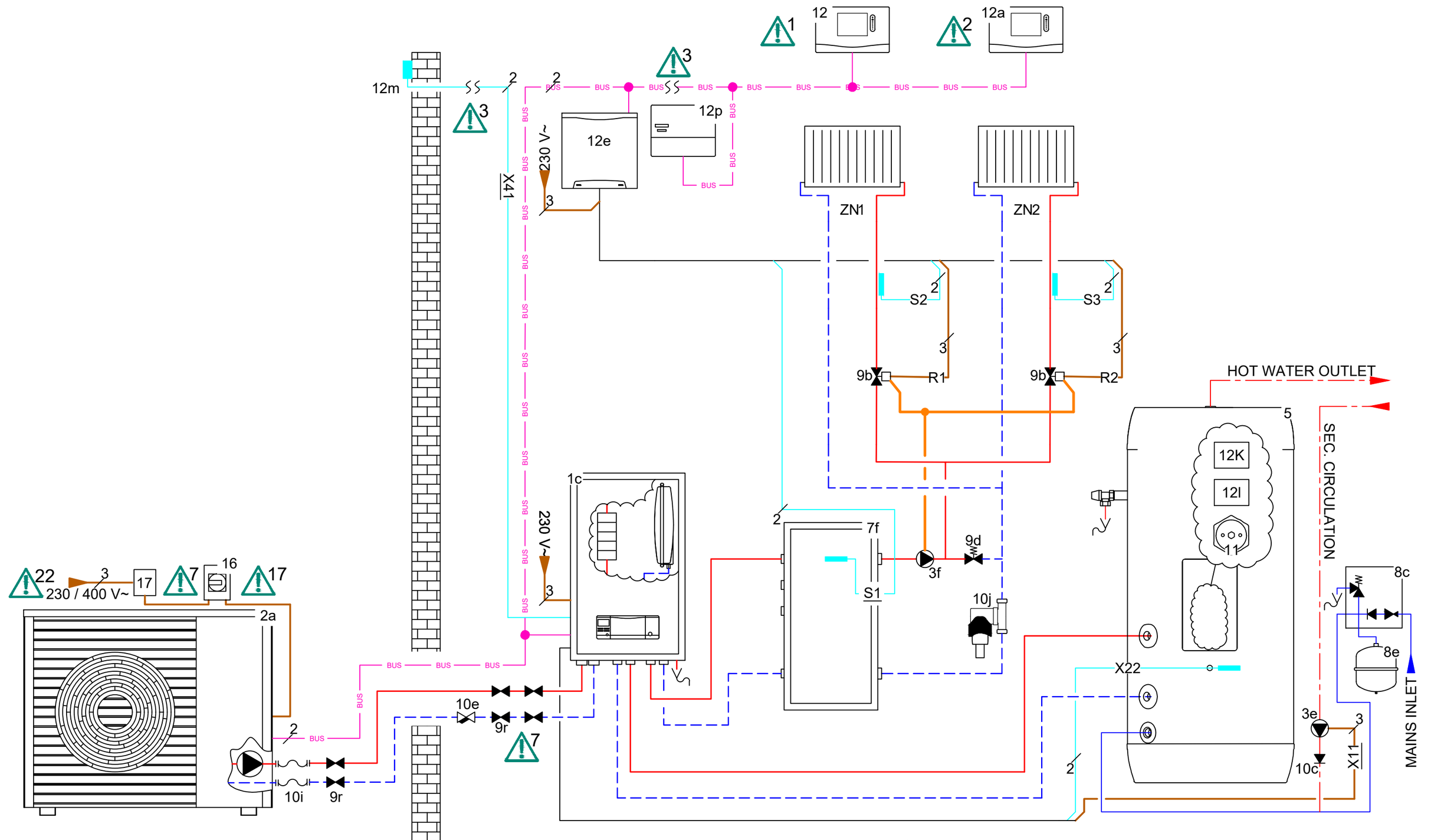
Domestic Hot Water: 1x Cylinder

30170-1012

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
2. Set VR92 remote address to its zone number - 1
eg. If VR92 is in zone 3, then remote address must be set to 2.

3. Controls and outdoor sensor can be wired or wireless
7. Optional for metering purposes.
17. Rotary Isolator must be situated outside of the Protective Zone
22. Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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Drawn: A.RICE
14/09/2023 REV: C

Appliance(s): aroTHERM Plus, Hydraulic Station, Buffer (45/100L)
Control(s): sensoCOMFORT

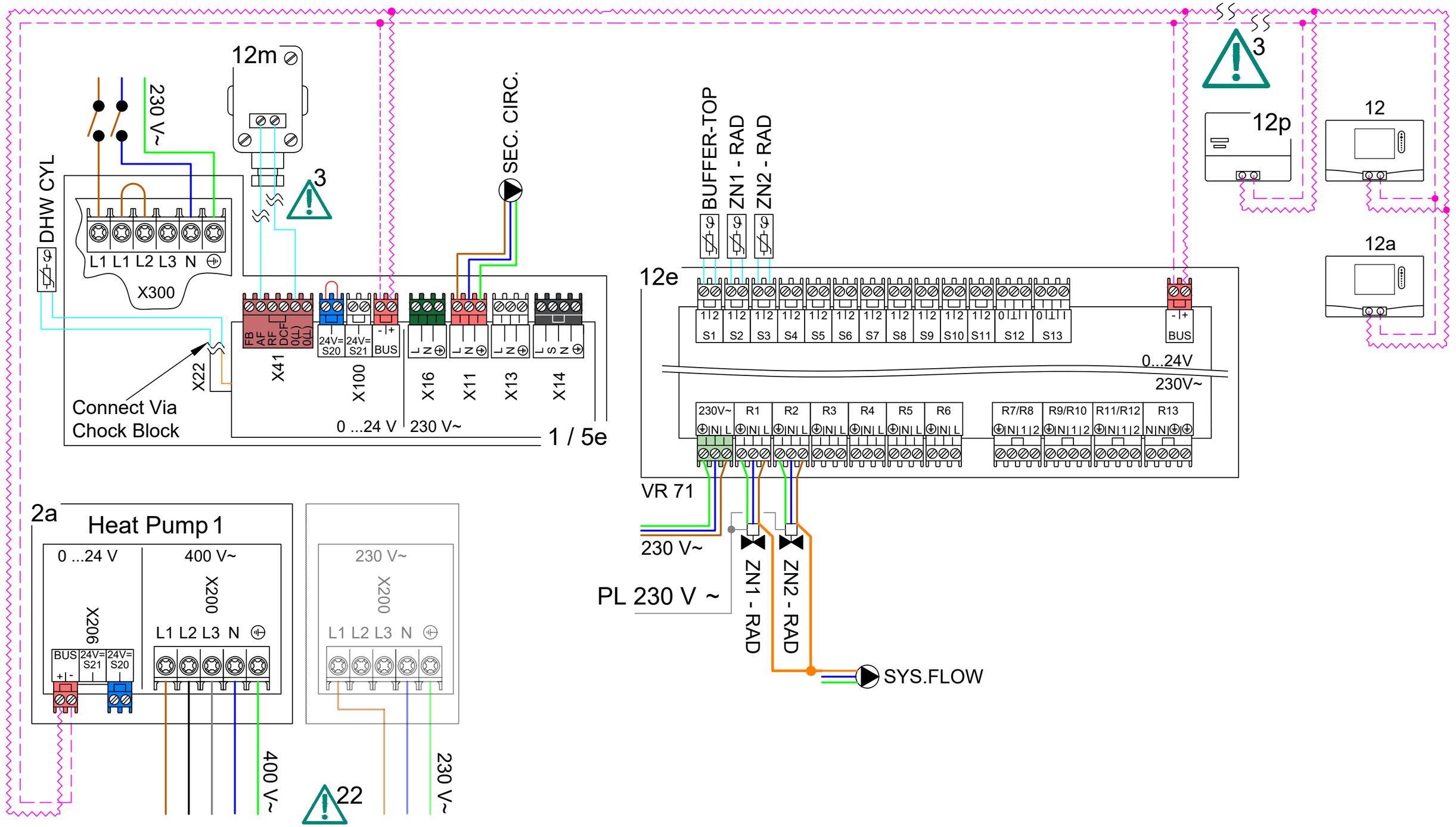
HTG. Circuit(s): 2x Radiator - Vaillant Direct, ,
Domestic Hot Water: 1x Cylinder

30170-1012

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
2. Set VR92 remote address to its zone number - 1
eg. If VR92 is in zone 3, then remote address must be set to 2.

3. Controls and outdoor sensor can be wired or wireless
7. Optional for metering purposes.
17. Rotary Isolator must be situated outside of the Protective Zone
22.Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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Drawn: A.RICE
14/09/2023 REV: C

Appliance(s): aroTHERM Plus, Hydraulic Station, Buffer (45/100L)
Control(s): sensoCOMFORT

HTG. Circuit(s): 2x Radiator - Vaillant Direct, ,
Domestic Hot Water: 1x Cylinder

30170-1012

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sensoCOMFORT VRC 720/2 System Configuration

Not all settings are displayed, commissioning of the controller should be done diligently; going through each adjustable option with consideration to the property and system requirements.

*1 If back-up boiler is set to Off then the back-up heater inside the hydraulic station will not function as support in this setup.

Setting	Value
Installation	
Adapt. heat curve:	Deactivated
Hybrid manager:	Bivalence pt
Heating bivalence point:	-20°
DHW bivalence point:	-20°
Alternative point:	Off
ESCO:	HP + BUH off
Back-up boiler*1 :	Off
Conf. ext. input:	Bridge, deactiv.
Basic system diagram config.	
Basic system diagram code:	8
HP control module configuration	
MO 2:	Circulation pump
Circuit 1	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45°
Set-back mode:	Normal
Room temp. mod.:	Expanded

Setting	Value
Circuit 2	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45°
Set-back mode:	Normal
Room temp. mod.:	Expanded
Zone 1	
Zone activated:	Yes
Zone assignment:	Control
Zone 2	
Zone activated:	Yes
Zone assignment:	Rem. contr. 1
Domestic hot water	
Cylinder:	Active
Anti-legio. day:	**User preference
Anti-legio. time:	**User preference
Cylinder charging offset:	15 K
Cyl. charg. anti-cycl. time:	5 min

Vaillant

01c	Hydraulic Station
02	aroTHERM Plus
03e	Secondary Circulation Pump
03f	General Pump
05	uniSTOR DHW Cylinder
07f	45/100L Buffer
08c	DHW Inlet Safety Group
08e	Heating / DHW Expansion Vessel
09b	Zone Valve
09d	Bypass Valve
09r	Isolation Valve
10c	Non-return Valve
10e	Y Strainer
10i	Flexible Connection
10j	Magnetic Filter
11	Immersion Heater
12e	Wiring Centre - VR 71
12K	High Limit Cut Out
12l	Cylinder Thermostat
12m	Outdoor Temperature Sensor
12p	Wireless Reciever
16	Rotary Isolator
17	Electric Meter

REV	DATE	DESCRIPTION	ZONE
C	30/08/2023	Added aroTHERM 400V option	2,E

Domestic Cold Water
Domestic Hot Water
Heating Flow
Heating Return
Glycol Flow
Glycol Return

230/400V Wire
Low Voltage Sensor Wire
Low Voltage eBUS
Low Voltage Demand Signal
eBUS +
eBUS -

Indicates Cable Junction

Indicates No. of cable cores

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Drawn: A.RICE
14/09/2023 REV: C

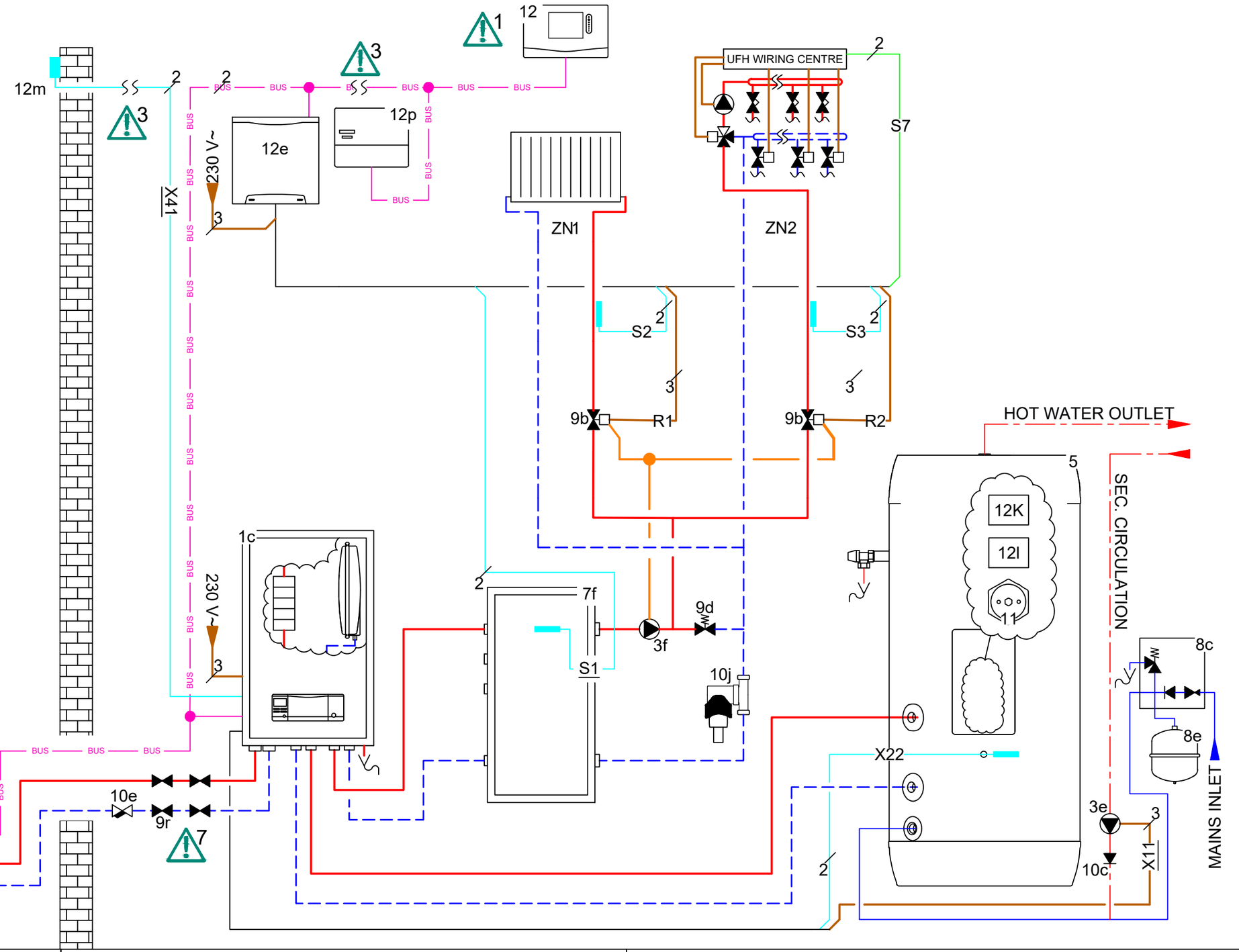
Appliance(s): aroTHERM Plus, Hydraulic Station, Buffer (45/100L)
Control(s): sensoCOMFORT

HTG. Circuit(s): 2x Radiator - Vaillant Direct, ,
Domestic Hot Water: 1x Cylinder

30171-1012

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
3. Controls and outdoor sensor can be wired or wireless
4. Link required (not factory fitted).
7. Optional for metering purposes.
17. Rotary Isolator must be situated outside of the Protective Zone
22. Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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Drawn: A.RICE

31/08/2023 REV: D

Appliance(s): 1x aroTHERM Plus, 1x Hydraulic Station, 1x Buffer (45/100L)

Control(s): 1x sensoCOMFORT

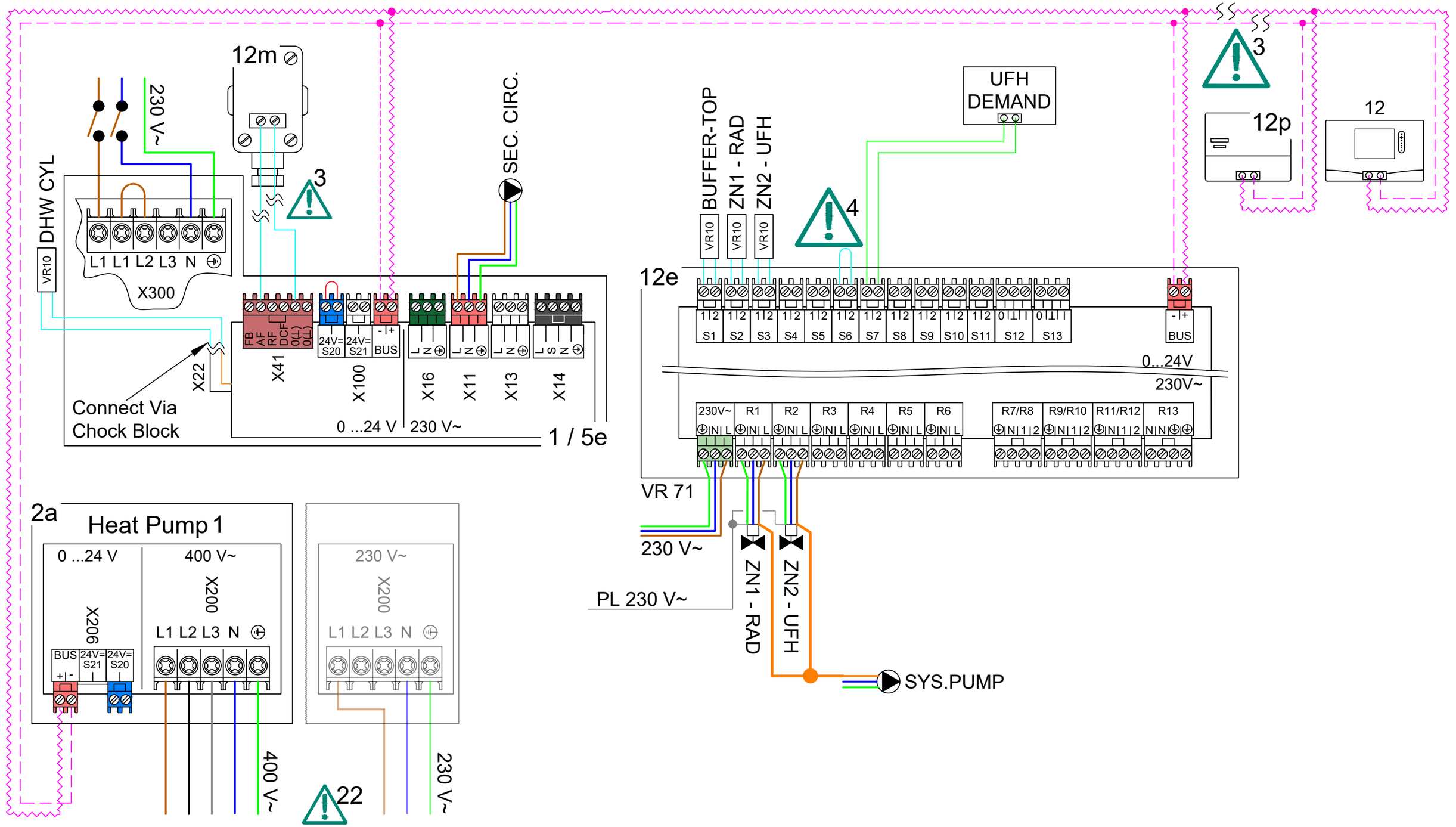
HTG. Circuit(s): 1x Radiator - Vaillant Direct, 1x UFH(X) - 3rd Party,

Domestic Hot Water: 1x Cylinder

30171-1012

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
3. Controls and outdoor sensor can be wired or wireless
4. Link required (not factory fitted).
7. Optional for metering purposes.
17. Rotary Isolator must be situated outside of the Protective Zone
22. Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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Drawn: A.RICE
31/08/2023 REV: D

Appliance(s): 1x aroTHERM Plus, 1x Hydraulic Station, 1x Buffer (45/100L)
Control(s): 1x sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Vaillant Direct, 1x UFH(X) - 3rd Party,
Domestic Hot Water: 1x Cylinder

30171-1012

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sensoCOMFORT System Configuration

Not all settings are displayed, commissioning of the controller should be done diligently; going through each adjustable option with consideration to the property and system requirements.

*1 If back-up boiler is set to Off then the back-up heater inside the hydraulic station will not function as support in this setup.

Setting	Value
Installation	
Adapt. heat curve:	Deactivated
Hybrid manager:	Bivalence pt
Heating bivalence point:	-20°
DHW bivalence point:	-20°
Alternative point:	Off
ESCO:	HP + BUH Off
Back-up boiler *1:	Off
Conf. ext. input:	Open, deactiv.
Basic system diagram config.	
Basic system diagram code:	8
HP control module configuration	
MO 2:	Circulation pump
Circuit 1	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45°
Set-back mode:	Normal
Room temp. mod.:	Expanded
Circuit 2	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45°
Set-back mode:	Eco
Room temp. mod.:	Inactive

Setting	Value
Zone 1	
Zone activated:	Yes
Zone assignment:	Control
Zone 2	
Zone activated:	Yes
Zone assignment:	No assignmt
Domestic hot water	
Cylinder:	Active
Anti-legio. day:	**User preference
Anti-legio. time:	**User preference
Cylinder charging offset:	15 K
Cyl. charg. anti-cycl. time:	5 min

01c	Hydraulic Station
02	aroTHERM Plus
03e	Secondary Circulation Pump
03f	General Pump
05	uniSTOR DHW Cylinder
07f	45/100L Buffer
08c	DHW Inlet Safety Group
08e	Heating / DHW Expansion Vessel
09b	Zone Valve
09d	Bypass Valve
09r	Isolation Valve
10c	Non-return Valve
10e	Y Strainer
10i	Flexible Connection
10j	Magnetic Filter
11	Immersion Heater
12	sensoCOMFORT
12e	Wiring Centre - VR 71
12K	High Limit Cut Out
12l	Cylinder Thermostat
12m	Outdoor Temperature Sensor
12p	Wireless Reciever
16	Rotary Isolator
17	Electric Meter

REV	DATE	DESCRIPTION	ZONE
D	31/08/2023	Added aroTHERM Plus 400V option	2,E
		Updated basic system diagram number to: 8	2,D

Domestic Cold Water
Domestic Hot Water
Heating Flow
Heating Return
Glycol Flow
Glycol Return

230/400V Wire
Low Voltage Sensor Wire
Low Voltage eBUS
Low Voltage Demand Signal
eBUS +
eBUS -

Indicates Cable Junction

Indicates No. of cable cores (3)

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Drawn: A.RICE

31/08/2023 REV: D

Appliance(s): 1x aroTHERM Plus, 1x Hydraulic Station, 1x Buffer (45/100L)

Control(s): 1x sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Vaillant Direct, 1x UFH(X) - 3rd Party,

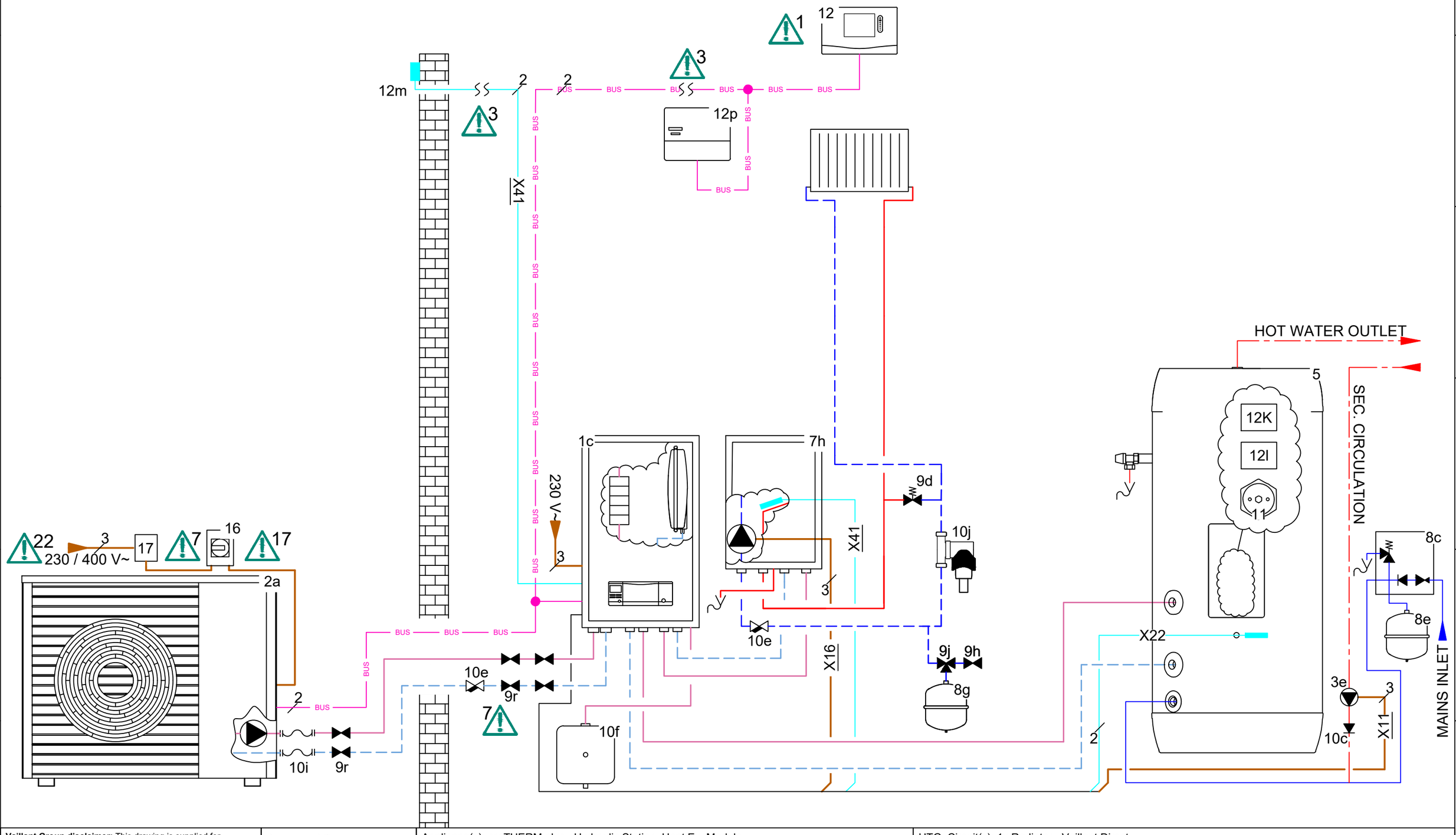
Domestic Hot Water: 1x Cylinder

30180-1011

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
3. Controls and outdoor sensor can be wired or wireless
7. Optional for metering purposes.

17. Rotary Isolator must be situated outside of the Protective Zone
22.Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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Drawn: A.RICE

15/09/2023 REV: D

Appliance(s): aroTHERM plus, Hydraulic Station, Heat Ex. Module

Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Vaillant Direct, ,

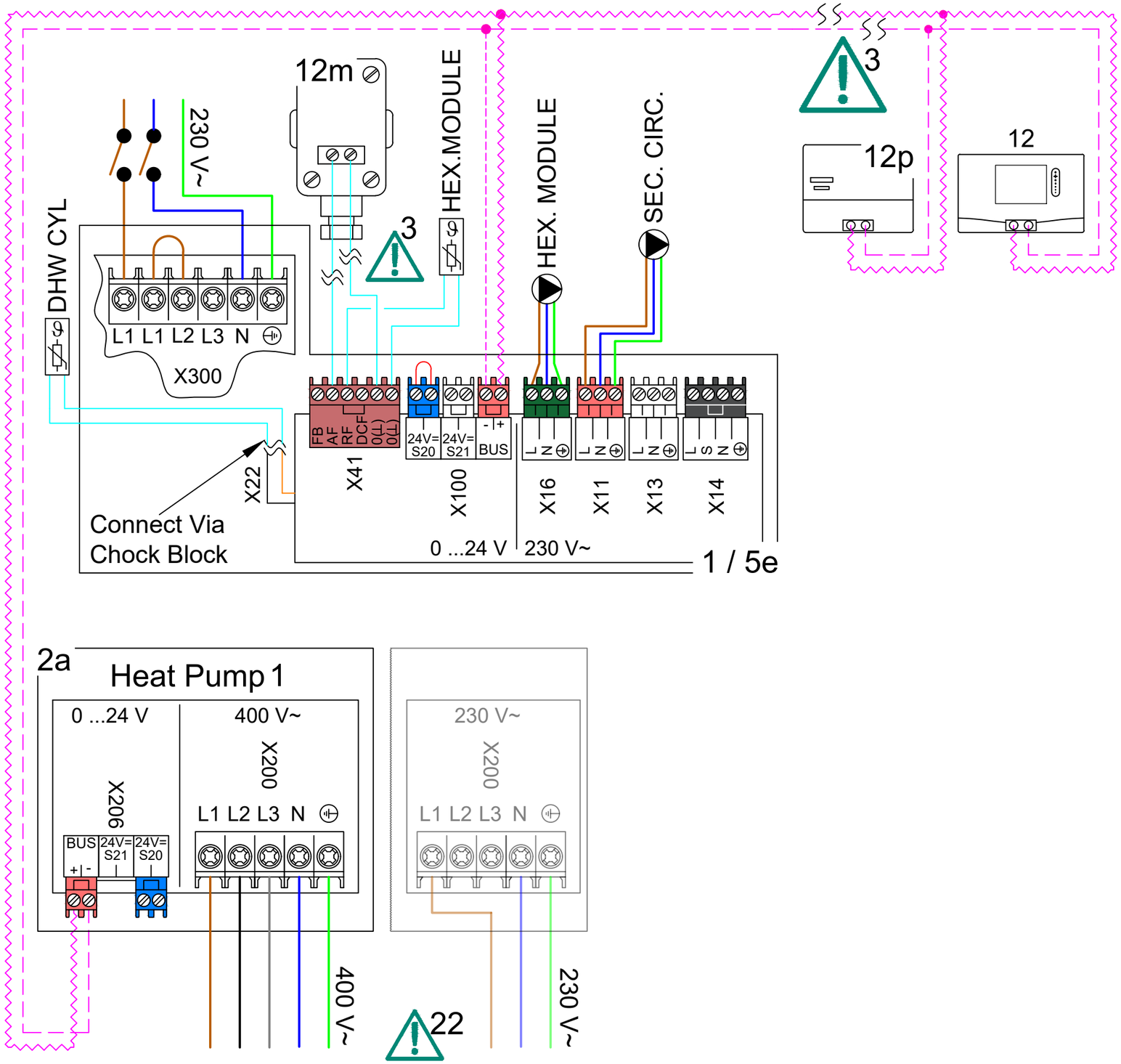
Domestic Hot Water: 1x Cylinder

30180-1011

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
3. Controls and outdoor sensor can be wired or wireless
7. Optional for metering purposes.

17. Rotary Isolator must be situated outside of the Protective Zone
22.Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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Drawn: A.RICE
15/09/2023 REV: D

Appliance(s): aroTHERM plus, Hydraulic Station, Heat Ex. Module
Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Vaillant Direct, ,
Domestic Hot Water: 1x Cylinder

30180-1011

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sensoCOMFORT VRC 720/2 System Configuration

Not all settings are displayed, commissioning of the controller should be done diligently; going through each adjustable option with consideration to the property and system requirements.

*1 If back-up boiler is set to Off then the back-up heater inside the hydraulic station will not function as support in this setup.

Setting	Value
Installation	
Adapt. heat curve:	Deactivated
Hybrid manager:	Bivalence pt
Heating bivalence point:	-20°
DHW bivalence point:	-20°
Alternative point:	Off
ESCO:	HP + BUH off
Back-up boiler*1:	Off
Basic system diagram config.	
Basic system diagram code:	10
HP control module configuration	
MO 2:	Circulation pump
Circuit 1	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45°
Set-back mode:	Normal
Room temp. mod.:	Expanded
Zone 1	
Zone activated:	Yes
Zone assignment:	Control

Setting	Value
Domestic hot water	
Cylinder:	Active
Anti-legio. day:	**User preference
Anti-legio. time:	**User preference
Cylinder charging offset:	15 K
Cyl. charg. anti-cycl. time:	5 min

01c	Hydraulic Station
02	aroTHERM plus
03e	Secondary Circulation Pump
05	uniSTOR DHW Cylinder
07h	HEX. Module
08c	DHW Inlet Safety Group
08e	Heating / DHW Expansion Vessel
08g	Brine Expansion Vessel
09d	Bypass Valve
09h	Fill / Drain Valve
09r	Isolation Valve
10c	Non-return Valve
10e	Y Strainer
10f	Brine Collection Tank
10i	Flexible Connection
10j	Magnetic Filter
11	Immersion Heater
12K	High Limit Cut Out
12l	Cylinder Thermostat
12m	Outdoor Temperature Sensor
12p	Wireless Reciever
16	Rotary Isolator
17	Electric Meter

REV	DATE	DESCRIPTION
D	15/09/2023	Added aroTHERM plus 400V option

Domestic Cold Water
Domestic Hot Water
Heating Flow
Heating Return
Glycol Flow
Glycol Return

230/400V Wire
Low Voltage Sensor Wire
Low Voltage eBUS
Low Voltage Demand Signal
eBUS +
eBUS -

Indicates Cable Junction
Indicates No. of cable cores (3)

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Drawn: A.RICE
15/09/2023 REV: D

Appliance(s): aroTHERM plus, Hydraulic Station, Heat Ex. Module
Control(s): sensoCOMFORT

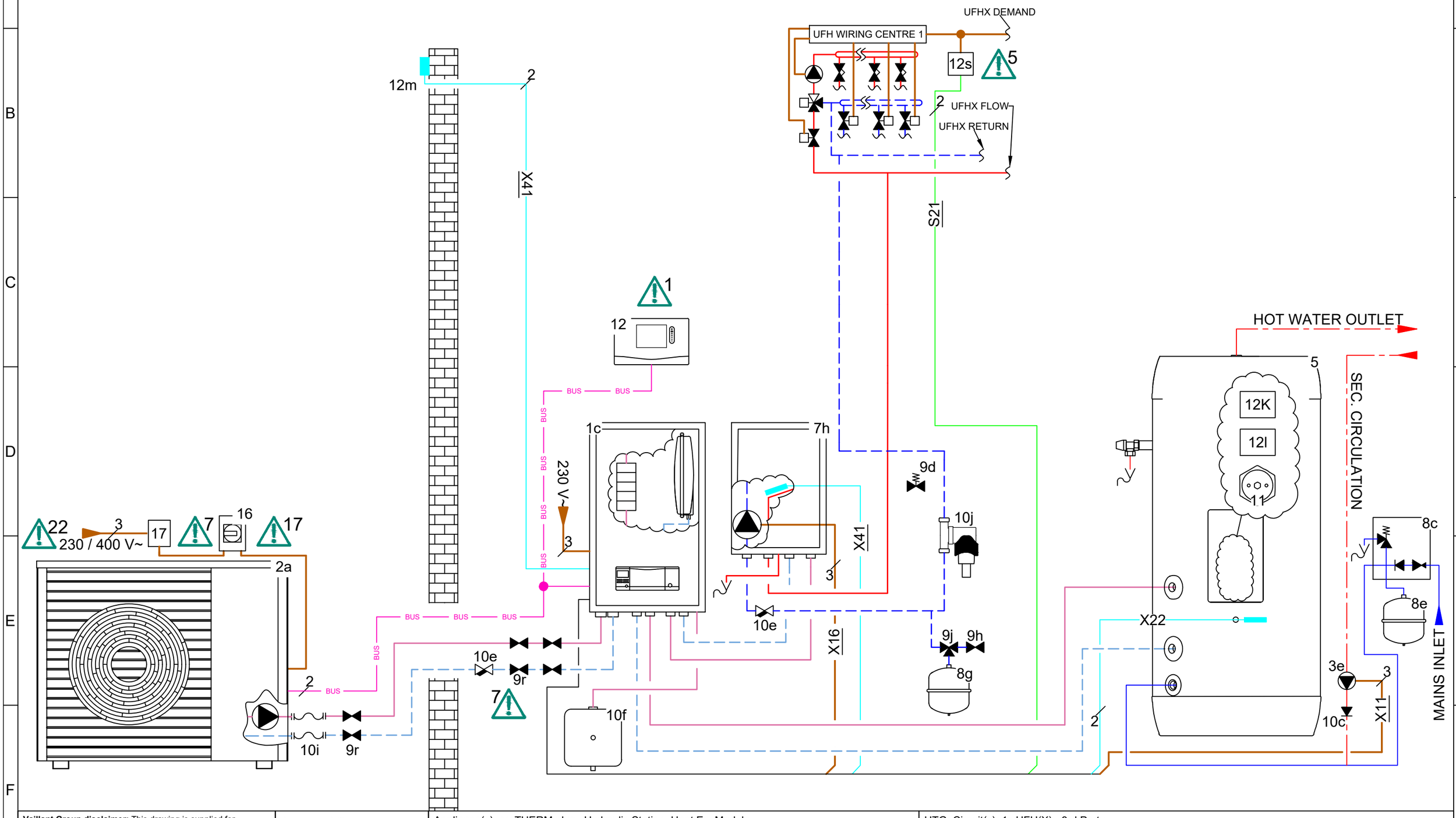
HTG. Circuit(s): 1x Radiator - Vaillant Direct, ,
Domestic Hot Water: 1x Cylinder

30181-1011

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
5. DPDT Relay (not supplied by Vaillant). See page 2 for detailed wiring.
7. Optional for metering purposes

17. Rotary Isolator must be situated outside of the Protective Zone
22.Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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Drawn: A.RICE

15/09/2023 REV: D

Appliance(s): aroTHERM plus, Hydraulic Station, Heat Ex. Module

Control(s): sensoCOMFORT VRC720

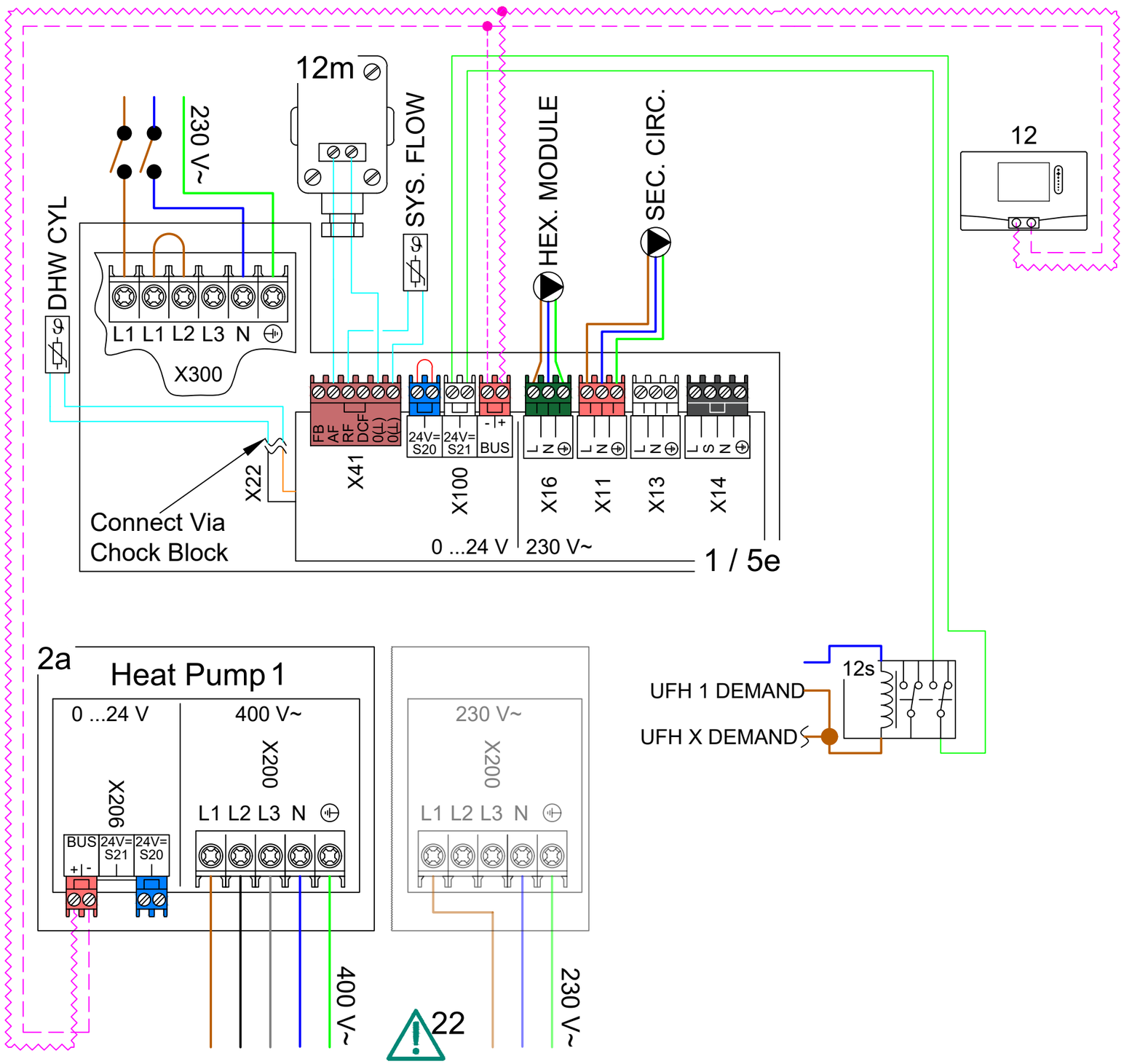
HTG. Circuit(s): 1x UFH(X) - 3rd Party, ,

Domestic Hot Water: 1x Cylinder

30181-1011

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
5. DPDT Relay (not supplied by Vaillant). See page 2 for detailed wiring.
7. Optional for metering purposes

17. Rotary Isolator must be situated outside of the Protective Zone
22.Electrical supply voltage depending on the installation and appliance: 230 V, 400 V



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Drawn: A.RICE
15/09/2023 REV: D

Appliance(s): aroTHERM plus, Hydraulic Station, Heat Ex. Module
Control(s): sensoCOMFORT VRC720

HTG. Circuit(s): 1x UFH(X) - 3rd Party, ,
Domestic Hot Water: 1x Cylinder

30181-1011

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sensoCOMFORT VRC 720/2 System Configuration

Not all settings are displayed, commissioning of the controller should be done diligently; going through each adjustable option with consideration to the property and system requirements.

*1 If back-up boiler is set to Off then the back-up heater inside the hydraulic station will not function as support in this setup.

Setting	Value
Installation	
Adapt. heat curve:	Deactivated
Hybrid manager:	Bivalence pt
Heating bivalence point:	-20°
DHW bivalence point:	-20°
Alternative point:	Off
ESCO:	Heating off
Back-up boiler*1:	Off
Basic system diagram config.	
Basic system diagram code:	10
HP control module configuration	
MO 2:	Circulation pump
Circuit 1	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45°
Set-back mode:	Eco
Room temp. mod.:	Inactive
Zone 1	
Zone activated:	Yes
Zone assignment:	No assignmt

Setting	Value
Domestic hot water	
Cylinder:	Active
Anti-legio. day:	**User preference
Anti-legio. time:	**User preference
Cylinder charging offset:	15 K
Cyl. charg. anti-cycl. time:	5 min

01c	Hydraulic Station
02	aroTHERM plus
03e	Secondary Circulation Pump
05	uniSTOR DHW Cylinder
07h	HEX. Module
08c	DHW Inlet Safety Group
08e	Heating / DHW Expansion Vessel
08g	Brine Expansion Vessel
09d	Bypass Valve
09h	Fill / Drain Valve
09r	Isolation Valve
10c	Non-return Valve
10e	Y Strainer
10f	Brine Collection Tank
10i	Flexible Connection
10j	Magnetic Filter
11	Immersion Heater
12	sensoCOMFORT
12K	High Limit Cut Out
12l	Cylinder Thermostat
12m	Outdoor Temperature Sensor
16	Rotary Isolator
17	Electric Meter

REV	DATE	DESCRIPTION
D	15/09/2023	Added aroTHERM plus 400V option

Domestic Cold Water
Domestic Hot Water
Heating Flow
Heating Return
Glycol Flow
Glycol Return

230/400V Wire
Low Voltage Sensor Wire
Low Voltage eBUS
Low Voltage Demand Signal
eBUS +
eBUS -

Indicates Cable Junction
Indicates No. of cable cores

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Drawn: A.RICE
15/09/2023 REV: D

Appliance(s): aroTHERM plus, Hydraulic Station, Heat Ex. Module
Control(s): sensoCOMFORT VRC720

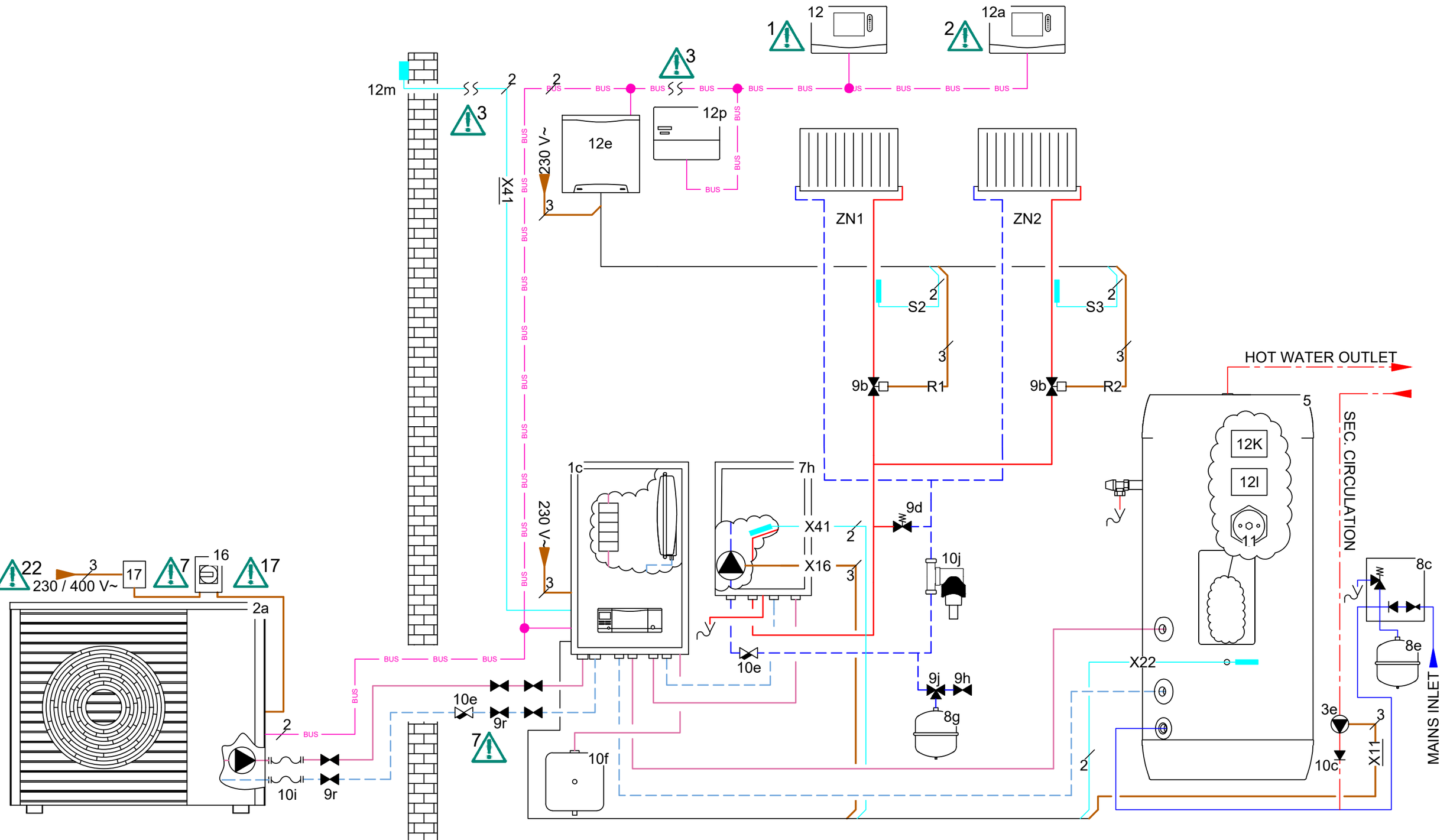
HTG. Circuit(s): 1x UFH(X) - 3rd Party, ,
Domestic Hot Water: 1x Cylinder

30190-1012

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
2. Set VR92 remote address to its zone number - 1
   eg. If VR92 is in zone 3, then remote address must be set to 2.

3. Controls and outdoor sensor can be wired or wireless
7. Optional for metering purposes.
17. Rotary Isolator must be situated outside of the Protective Zone
22. .Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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Drawn: A.RICE
18/09/2023 REV: C

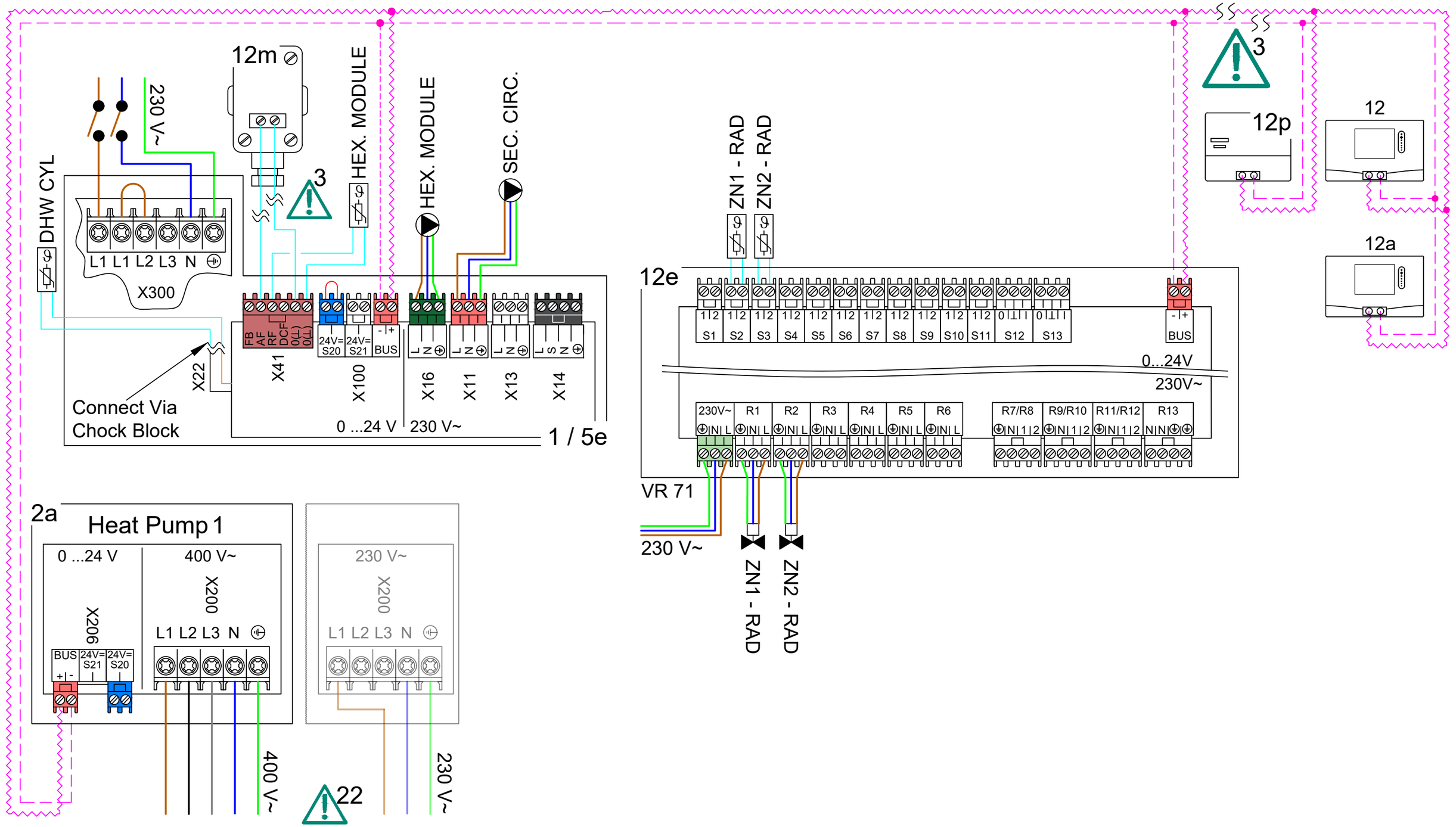
Appliance(s): aroTHERM plus, Hydraulic Station, Heat Ex. Module
Control(s): sensoCOMFORT

HTG. Circuit(s): 2x Radiator - Vaillant Direct, ,
Domestic Hot Water: 1x Cylinder

30190-1012

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
2. Set VR92 remote address to its zone number - 1
   eg. If VR92 is in zone 3, then remote address must be set to 2.
3. Controls and outdoor sensor can be wired or wireless
7. Optional for metering purposes.
17. Rotary Isolator must be situated outside of the Protective Zone
22. .Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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Drawn: A.RICE
18/09/2023 REV: C

Appliance(s): aroTHERM plus, Hydraulic Station, Heat Ex. Module
Control(s): sensoCOMFORT

HTG. Circuit(s): 2x Radiator - Vaillant Direct, ,
Domestic Hot Water: 1x Cylinder

30190-1012

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sensoCOMFORT VRC 720/2 System Configuration

Not all settings are displayed, commissioning of the controller should be done diligently; going through each adjustable option with consideration to the property and system requirements.

*1 If back-up boiler is set to Off then the back-up heater inside the hydraulic station will not function as support in this setup.

Setting	Value
Installation	
Adapt. heat curve:	Deactivated
Hybrid manager:	Bivalence pt
Heating bivalence point:	-20°
DHW bivalence point:	-20°
Alternative point:	Off
ESCO:	HP + BUH off
Back-up boiler *1:	Off
Conf. ext. input:	Bridge, deactiv.
Basic system diagram config.	
Basic system diagram code:	10
HP control module configuration	
MO 2:	Circulation pump
Circuit 1	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45°
Set-back mode:	Normal
Room temp. mod.:	Expanded

Setting	Value
Circuit 2	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45°
Set-back mode:	Normal
Room temp. mod.:	Expanded
Zone 1	
Zone activated:	Yes
Zone assignment:	Control
Zone 2	
Zone activated:	Yes
Zone assignment:	Rem. contr. 1
Domestic hot water	
Cylinder:	Active
Anti-legio. day:	**User preference
Anti-legio. time:	**User preference
Cylinder charging offset:	15 K
Cyl. charg. anti-cycl. time:	5 min

01c	Hydraulic Station
02	aroTHERM plus
03e	Secondary Circulation Pump
05	uniSTOR DHW Cylinder
07h	HEX. Module
08c	DHW Inlet Safety Group
08e	Heating / DHW Expansion Vessel
08g	Brine Expansion Vessel
09b	Zone Valve
09d	Bypass Valve
09h	Fill / Drain Valve
09r	Isolation Valve
10c	Non-return Valve
10e	Y Strainer
10f	Brine Collection Tank
10i	Flexible Connection
10j	Magnetic Filter
11	Immersion Heater
12	sensoCOMFORT
12a	VR92
12e	Wiring Centre - VR 71
12K	High Limit Cut Out
12l	Cylinder Thermostat
12m	Outdoor Temperature Sensor
12p	Wireless Reciever
16	Rotary Isolator
17	Electric Meter

REV	DATE	DESCRIPTION	ZONE
C	18/09/2023	Added aroTHERM plus 400V option	2,E

Domestic Cold Water
Domestic Hot Water
Heating Flow
Heating Return
Glycol Flow
Glycol Return

230/400V Wire
Low Voltage Sensor Wire
Low Voltage eBUS
Low Voltage Demand Signal
eBUS +
eBUS -

Indicates Cable Junction
Indicates No. of cable cores

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Drawn: A.RICE
18/09/2023 REV: C

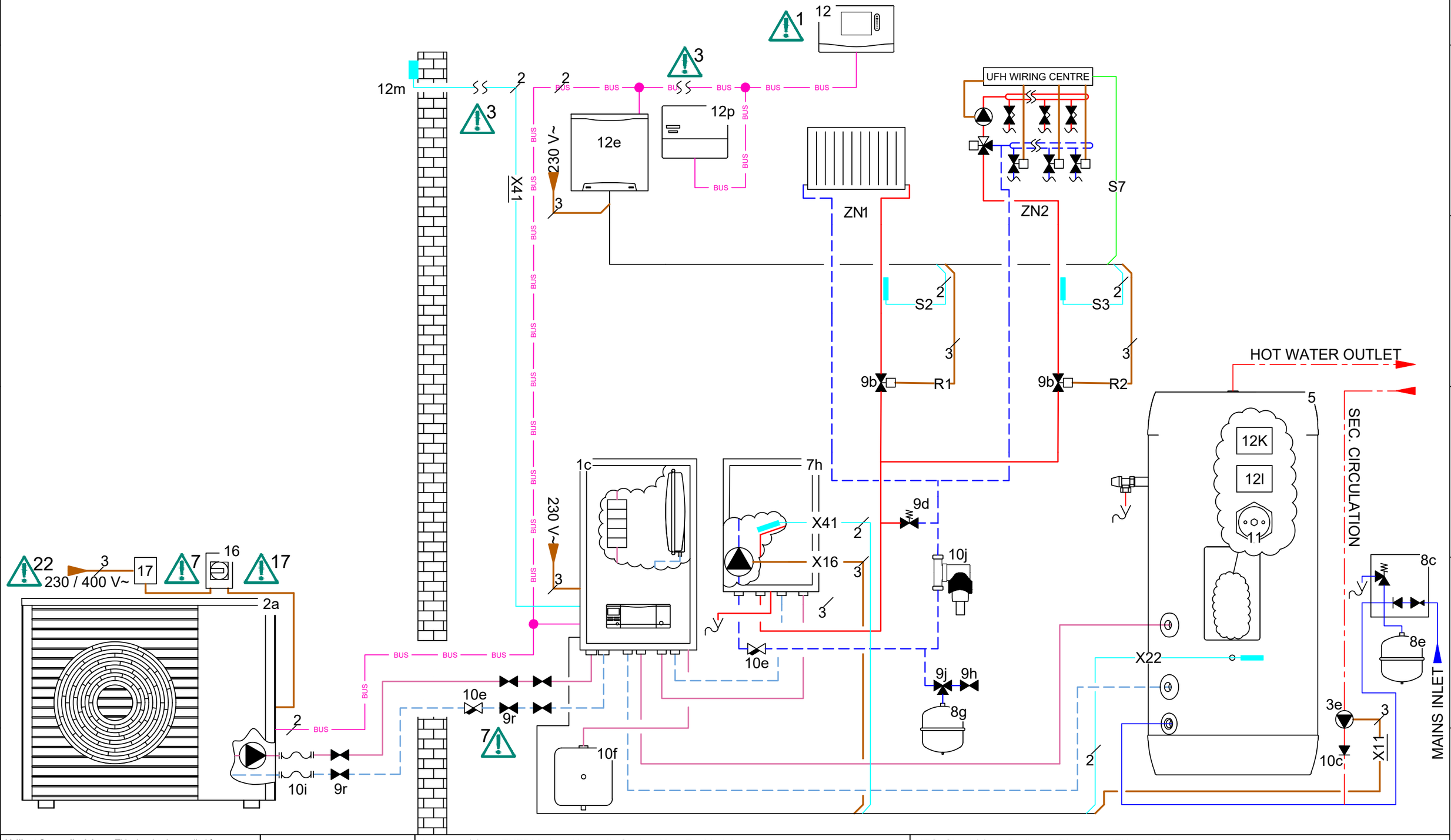
Appliance(s): aroTHERM plus, Hydraulic Station, Heat Ex. Module
Control(s): sensoCOMFORT

HTG. Circuit(s): 2x Radiator - Vaillant Direct, ,
Domestic Hot Water: 1x Cylinder

30191-1012

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
3. Controls and outdoor sensor can be wired or wireless
4. Link required (not factory fitted).
7. Optional for metering purposes.
17. Rotary Isolator must be situated outside of the Protective Zone
22. Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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Drawn: A.RICE

18/09/2023 REV: C

Appliance(s): aroTHERM plus, Hydraulic Station, Heat Ex. Module

Control(s): sensoCOMFORT

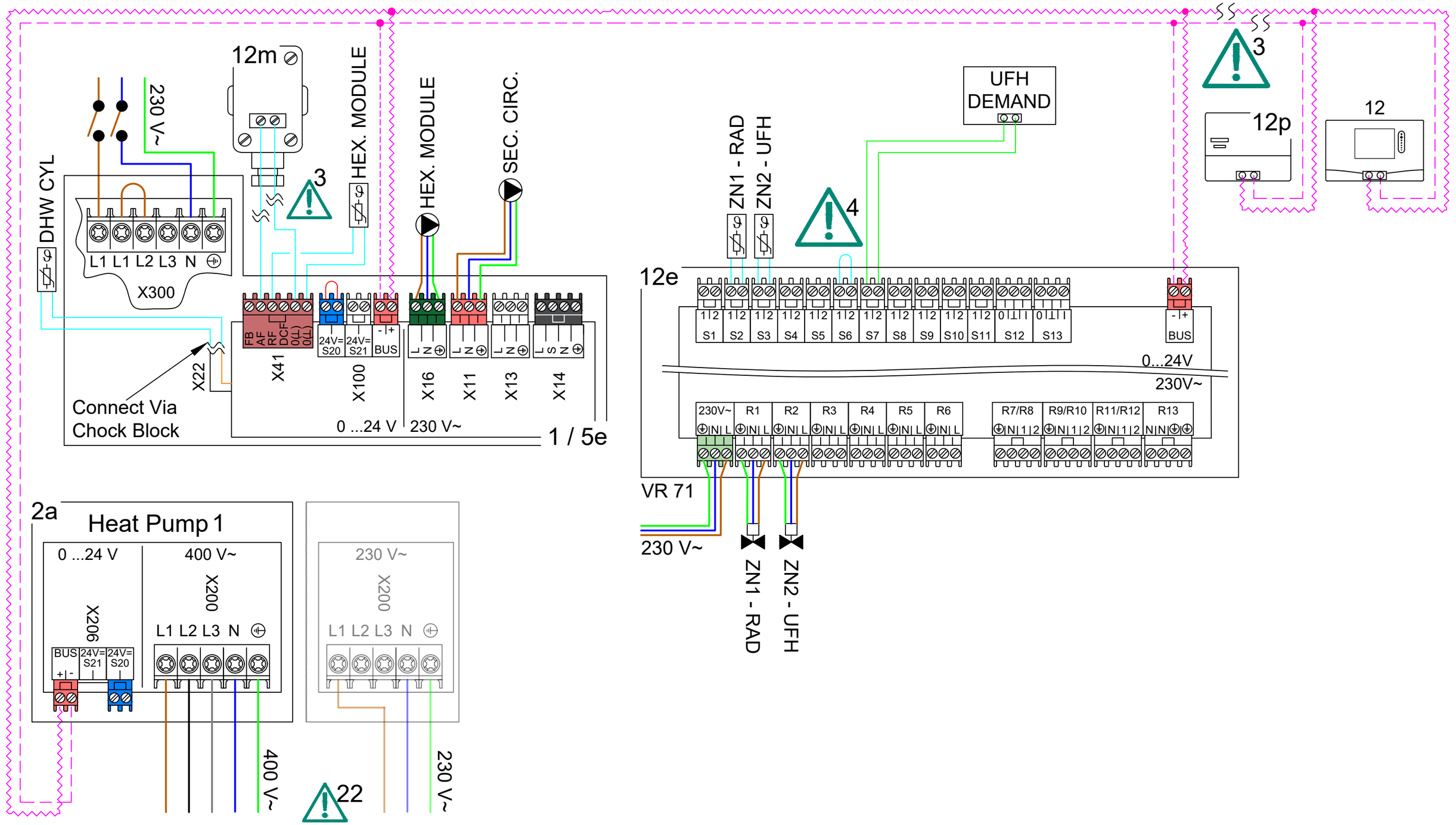
HTG. Circuit(s): 1x Radiator - Direct, 1x UFH - 3rd Party,

Domestic Hot Water: 1x Cylinder

30191-1012

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
3. Controls and outdoor sensor can be wired or wireless
4. Link required (not factory fitted).
7. Optional for metering purposes.
17. Rotary Isolator must be situated outside of the Protective Zone
22. Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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Drawn: A.RICE
18/09/2023 REV: C

Appliance(s): aroTHERM plus, Hydraulic Station, Heat Ex. Module
Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Direct, 1x UFH - 3rd Party,
Domestic Hot Water: 1x Cylinder

30191-1012

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sensoCOMFORT VRC 720/2 System Configuration

Not all settings are displayed, commissioning of the controller should be done diligently; going through each adjustable option with consideration to the property and system requirements.

Setting	Value
Installation	
Adapt. heat curve:	Deactivated
Hybrid manager:	Bivalence pt
Heating bivalence point:	-20°
DHW bivalence point:	-20°
Alternative point:	Off
ESCO:	HP + BUH off
Back-up boiler*1:	Off
Conf. ext. input:	Open, deactiv.
Basic system diagram config.	
Basic system diagram code:	10
HP control module configuration	
MO 2:	Circulation pump
Circuit 1	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45°
Set-back mode:	Normal
Room temp. mod.:	Expanded
Circuit 2	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45°
Set-back mode:	Eco
Room temp. mod.:	Inactive

Setting	Value
Zone 1	
Zone activated:	Yes
Zone assignment:	Control
Zone 2	
Zone activated:	Yes
Zone assignment:	No assignmt
Domestic hot water	
Cylinder:	Active
Anti-legio. day:	**User preference
Anti-legio. time:	**User preference
Cylinder charging offset:	15 K
Cyl. charg. anti-cycl. time:	5 min

Vaillant

01c	Hydraulic Station
02	aroTHERM plus
03e	Secondary Circulation Pump
05	uniSTOR DHW Cylinder
07h	HEX. Module
08c	DHW Inlet Safety Group
08e	Heating / DHW Expansion Vessel
08g	Brine Expansion Vessel
09b	Zone Valve
09d	Bypass Valve
09h	Fill / Drain Valve
09r	Isolation Valve
10c	Non-return Valve
10e	Y Strainer
10f	Brine Collection Tank
10i	Flexible Connection
10j	Magnetic Filter
11	Immersion Heater
12e	Wiring Centre - VR 71
12K	High Limit Cut Out
12l	Cylinder Thermostat
12m	Outdoor Temperature Sensor
12p	Wireless Reciever
16	Rotary Isolator
17	Electric Meter

REV	DATE	DESCRIPTION	ZONE
C	18/09/2023	Added aroTHERM plus 400V option	2,E

Domestic Cold Water
Domestic Hot Water
Heating Flow
Heating Return
Glycol Flow
Glycol Return

230/400V Wire
Low Voltage Sensor Wire
Low Voltage eBUS
Low Voltage Demand Signal
eBUS +
eBUS -

Indicates Cable Junction

Indicates No. of cable cores

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Drawn: A.RICE
18/09/2023 REV: C

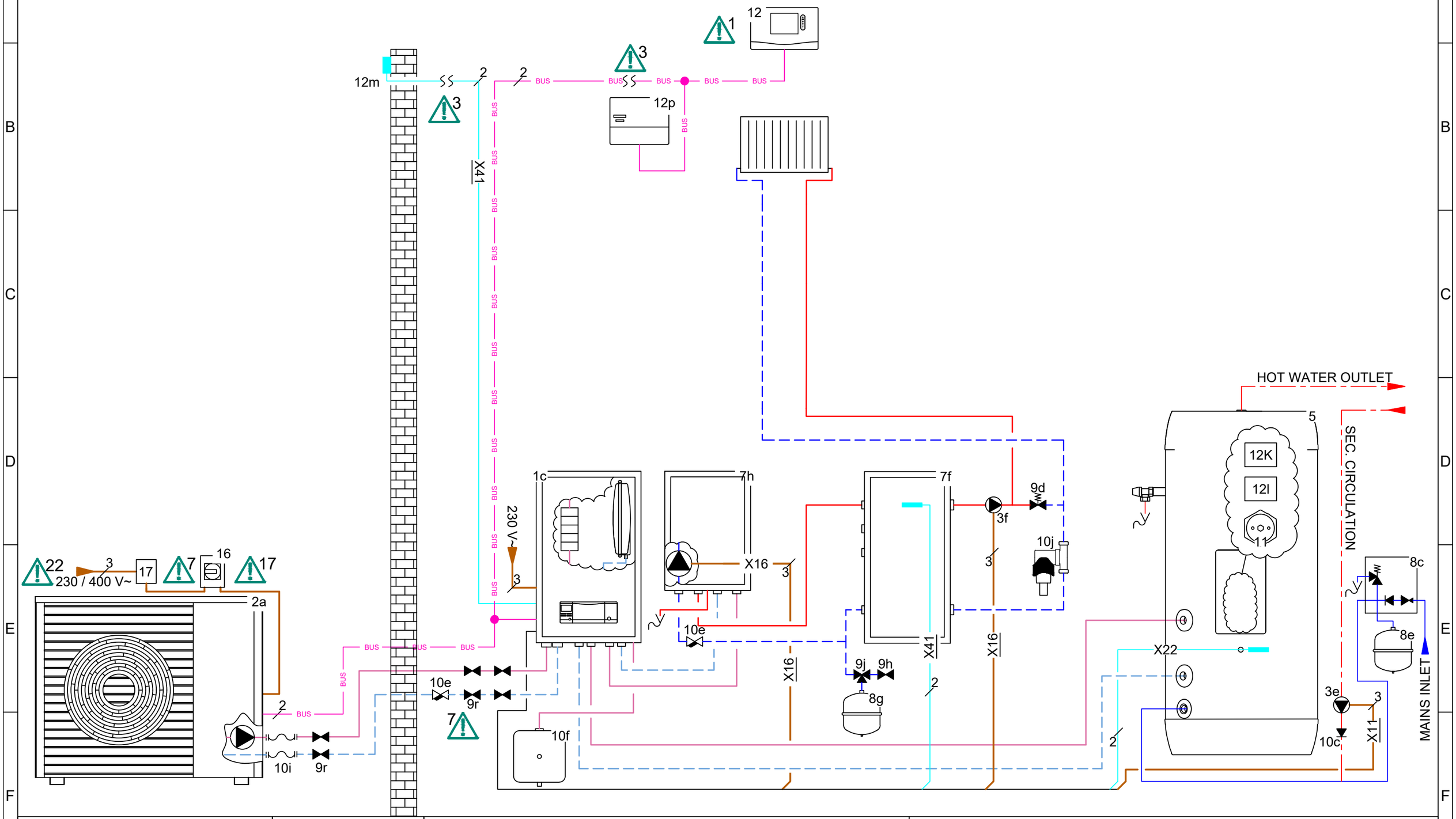
Appliance(s): aroTHERM plus, Hydraulic Station, Heat Ex. Module
Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Direct, 1x UFH - 3rd Party,
Domestic Hot Water: 1x Cylinder

30200-1011

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
3. Controls and outdoor sensor can be wired or wireless
7. Optional for metering purposes.

17. Rotary Isolator must be situated outside of the Protective Zone
18. Maximum current draw of 2 Amps on X16 terminal.
22. Electrical supply voltage depending on the installation and appliance: 230 V, 400 V



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Drawn: A.RICE

14/09/2023 REV: D

Appliance(s): aroTHERM Plus, Hydraulic Station, Heat Ex. Module, Buffer (45/100L)

Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Vaillant Direct, ,

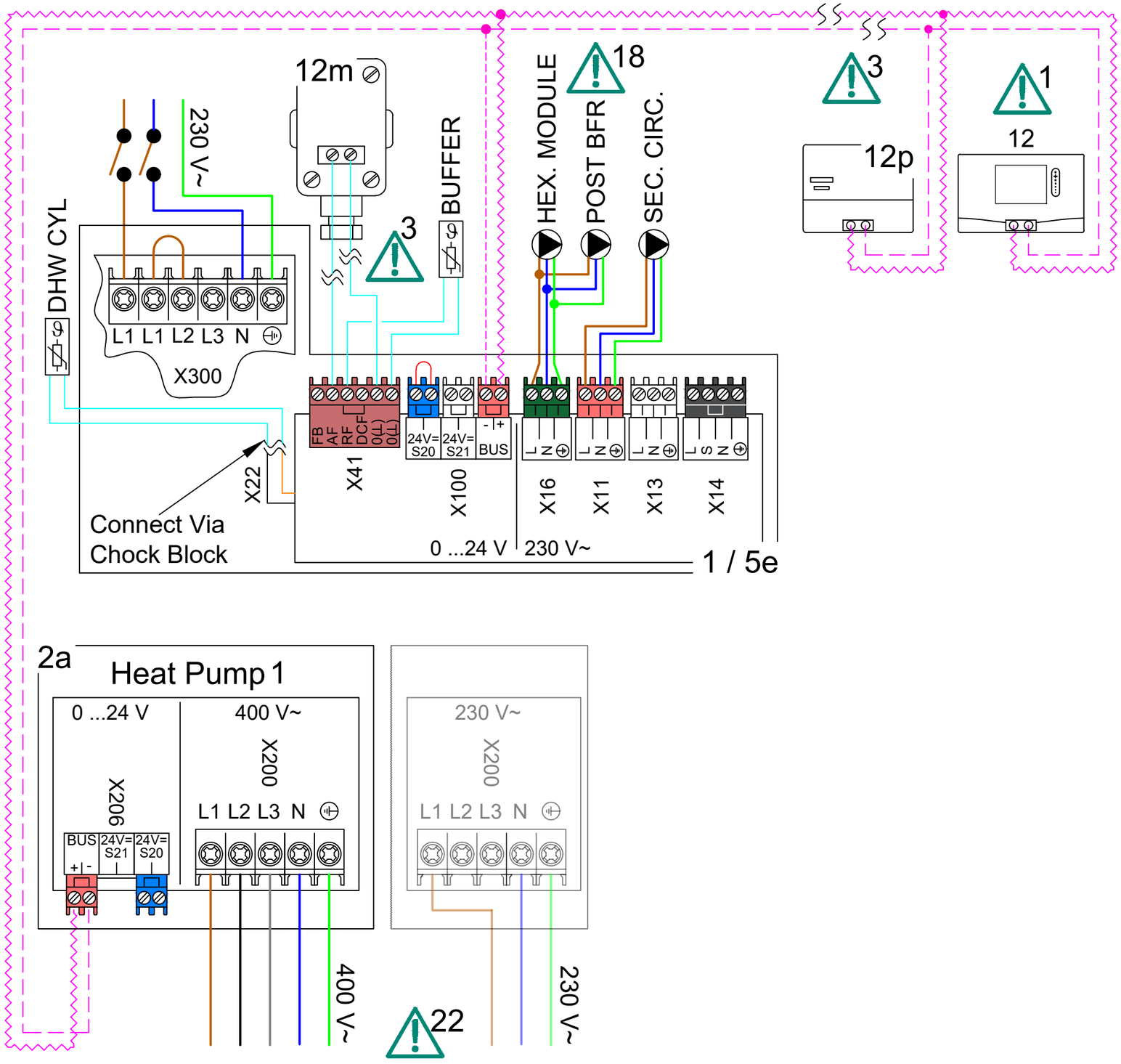
Domestic Hot Water: 1x Cylinder

30200-1011

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
3. Controls and outdoor sensor can be wired or wireless
7. Optional for metering purposes.

17. Rotary Isolator must be situated outside of the Protective Zone
18. Maximum current draw of 2 Amps on X16 terminal.
22. Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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Drawn: A.RICE
14/09/2023 REV: D

Appliance(s): aroTHERM Plus, Hydraulic Station, Heat Ex. Module, Buffer (45/100L)
Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Vaillant Direct, ,
Domestic Hot Water: 1x Cylinder

30200-1011

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sensoCOMFORT VRC 720/2 System Configuration

Not all settings are displayed, commissioning of the controller should be done diligently; going through each adjustable option with consideration to the property and system requirements.

*1 If back-up boiler is set to Off then the back-up heater inside the hydraulic station will not function as support in this setup.

Setting	Value
Installation	
Adapt. heat curve:	Deactivated
Hybrid manager:	Bivalence pt
Heating bivalence point:	-20°
DHW bivalence point:	-20°
Alternative point:	Off
ESCO:	HP + BUH off
Back-up boiler *1:	Off
Basic system diagram config.	
Basic system diagram code:	10
HP control module configuration	
MO 2:	Circulation pump
Circuit 1	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45°
Set-back mode:	Normal
Room temp. mod.:	Expanded
Zone 1	
Zone activated:	Yes
Zone assignment:	Control

Setting	Value
Domestic hot water	
Cylinder:	Active
Anti-legio. day:	**User preference
Anti-legio. time:	**User preference
Cylinder charging offset:	15 K
Cyl. charg. anti-cycl. time:	5 min

01c	Hydraulic Station
02	aroTHERM Plus
03e	Secondary Circulation Pump
03f	General Pump
05	uniSTOR DHW Cylinder
07f	45/100L Buffer
07h	HEX. Module
08c	DHW Inlet Safety Group
08e	Heating / DHW Expansion Vessel
08g	Brine Expansion Vessel
09d	Bypass Valve
09h	Fill / Drain Valve
09r	Isolation Valve
10c	Non-return Valve
10e	Y Strainer
10f	Brine Collection Tank
10i	Flexible Connection
10j	Magnetic Filter
11	Immersion Heater
12K	High Limit Cut Out
12l	Cylinder Thermostat
12m	Outdoor Temperature Sensor
12p	Wireless Reciever
16	Rotary Isolator
17	Electric Meter

REV	DATE	DESCRIPTION
D	11/09/2023	Added aroTHERM Plus 400V option

Domestic Cold Water
Domestic Hot Water
Heating Flow
Heating Return
Glycol Flow
Glycol Return

230/400V Wire
Low Voltage Sensor Wire
Low Voltage eBUS
Low Voltage Demand Signal
eBUS +
eBUS -

Indicates Cable Junction
Indicates No. of cable cores (3)

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Drawn: A.RICE
14/09/2023 REV: D

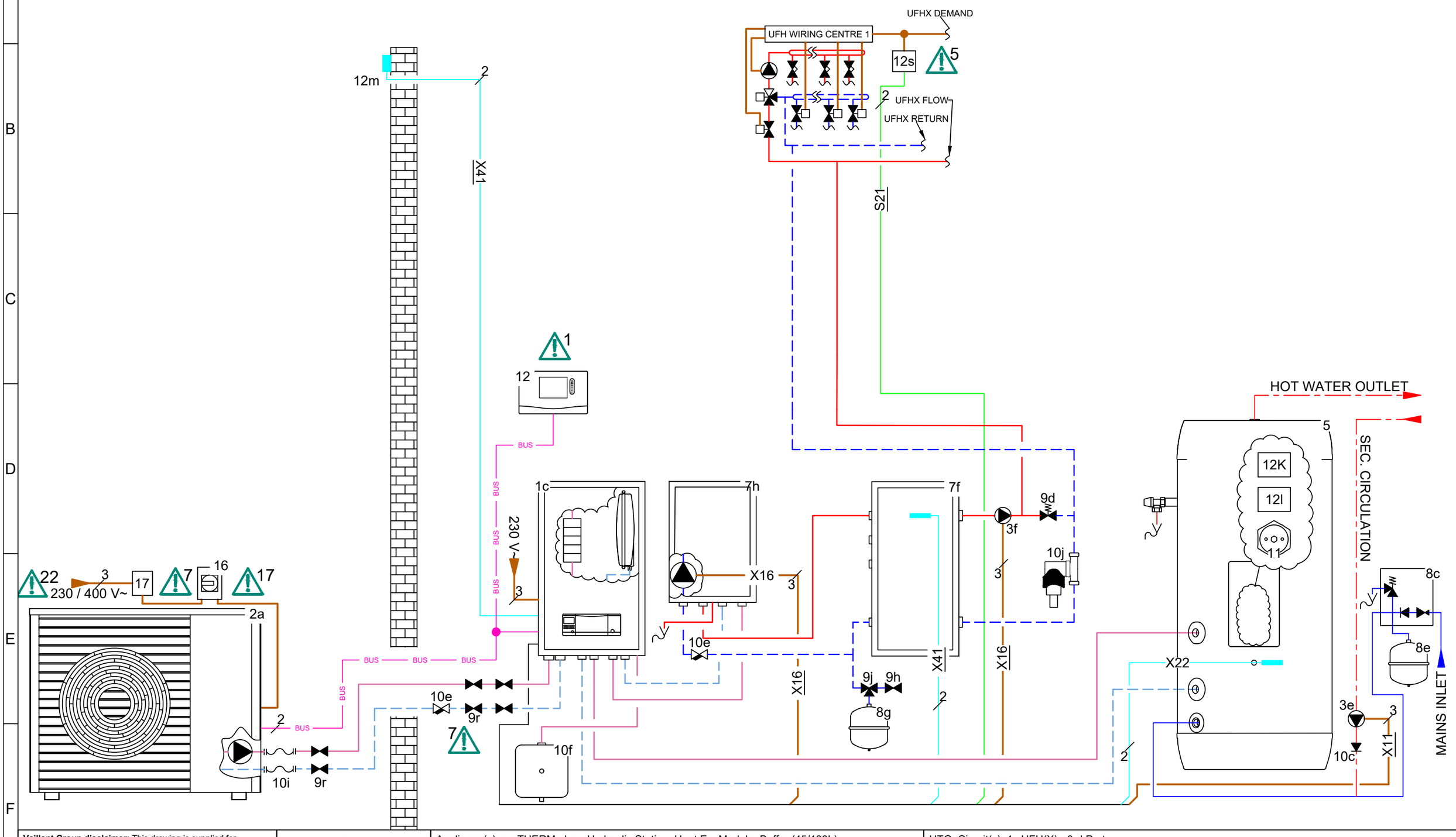
Appliance(s): aroTHERM Plus, Hydraulic Station, Heat Ex. Module, Buffer (45/100L)
Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Vaillant Direct, ,
Domestic Hot Water: 1x Cylinder

30201-1011

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
5. DPDT Relay (not supplied by Vaillant). See page 2 for detailed wiring.
7. Optional for metering purposes

17. Rotary Isolator must be situated outside of the Protective Zone
22.Electrical supply voltage depending on the installation and appliance: 230 V, 400 V



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Drawn: A.RICE

14/09/2023 REV: D

Appliance(s): aroTHERM plus, Hydraulic Station, Heat Ex. Module, Buffer (45/100L)

Control(s): sensoCOMFORT VRC 720

HTG. Circuit(s): 1x UFH(X) - 3rd Party, ,

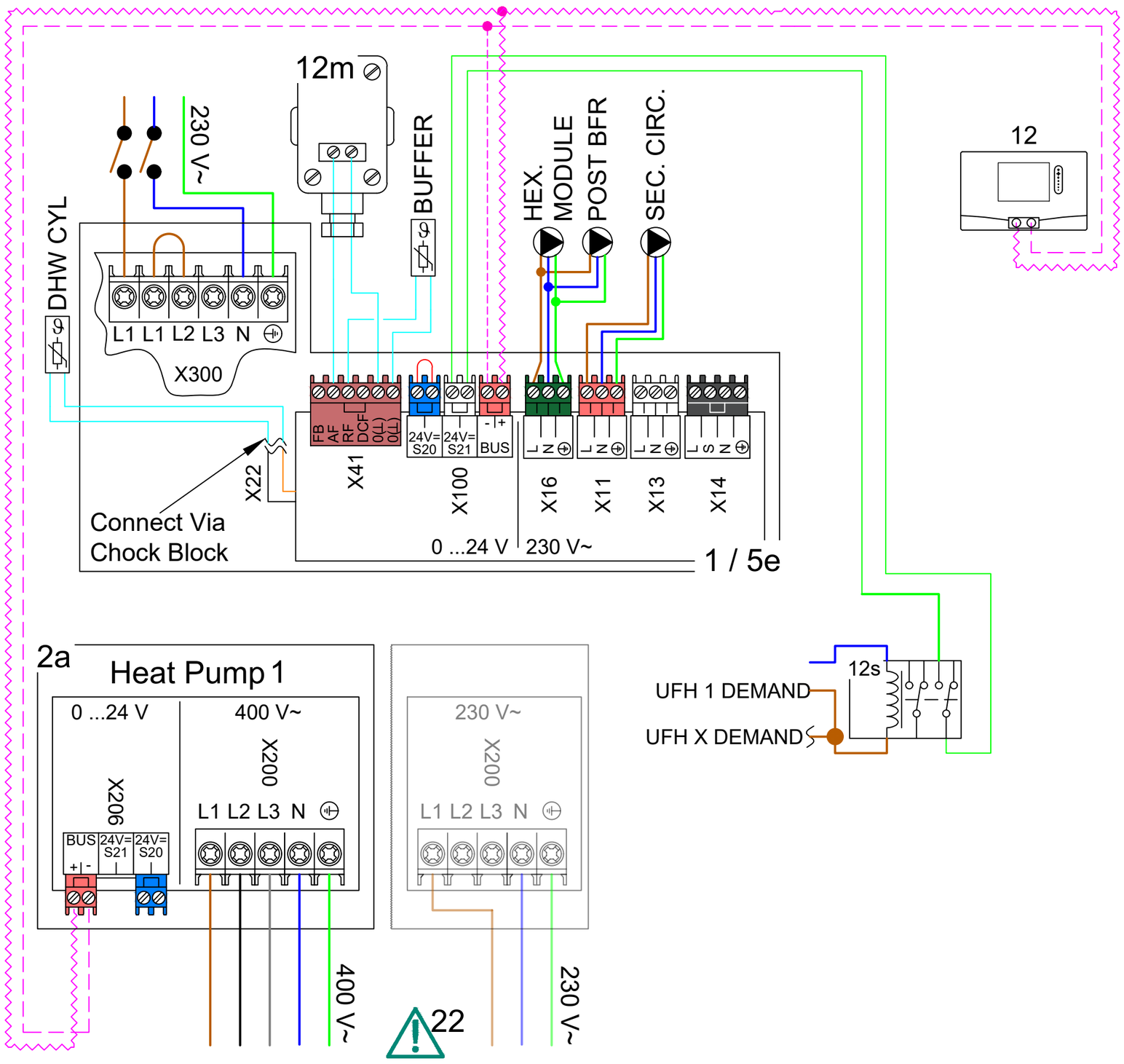
Domestic Hot Water: 1x Cylinder

30201-1011

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
5. DPDT Relay (not supplied by Vaillant). See page 2 for detailed wiring.
7. Optional for metering purposes

17. Rotary Isolator must be situated outside of the Protective Zone
22.Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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Drawn: A.RICE
14/09/2023 REV: D

Appliance(s): aroTHERM plus, Hydraulic Station, Heat Ex. Module, Buffer (45/100L)
Control(s): sensoCOMFORT VRC 720

HTG. Circuit(s): 1x UFH(X) - 3rd Party, ,
Domestic Hot Water: 1x Cylinder

30201-1011

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sensoCOMFORT VRC720/2 System Configuration

Not all settings are displayed, commissioning of the controller should be done diligently; going through each adjustable option with consideration to the property and system requirements.

*1 If back-up boiler is set to Off then the back-up heater inside the hydraulic station will not function as support in this setup.

Setting	Value
Installation	
Adapt. heat curve:	Deactivated
Hybrid manager:	Bivalence pt
Heating bivalence point:	-20°
DHW bivalence point:	-20°
Alternative point:	Off
ESCO:	Heating off
Back-up boiler *1:	Off
Basic system diagram config.	
Basic system diagram code:	10
HP control module configuration	
MO 2:	Circulation pump
Circuit 1	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45°
Set-back mode:	Eco
Room temp. mod.:	Inactive
Zone 1	
Zone activated:	Yes
Zone assignment:	No assignmt

Setting	Value
Domestic hot water	
Cylinder:	Active
Anti-legio. day:	**User preference
Anti-legio. time:	**User preference
Cylinder charging offset:	15 K
Cyl. charg. anti-cycl. time:	5 min

01c	Hydraulic Station
02	aroTHERM plus
03e	Secondary Circulation Pump
03f	General Pump
05	uniSTOR DHW Cylinder
07f	45/100L Buffer
07h	HEX. Module
08c	DHW Inlet Safety Group
08e	Heating / DHW Expansion Vessel
08g	Brine Expansion Vessel
09d	Bypass Valve
09h	Fill / Drain Valve
09r	Isolation Valve
10c	Non-return Valve
10e	Y Strainer
10f	Brine Collection Tank
10i	Flexible Connection
10j	Magnetic Filter
11	Immersion Heater
12	sensoCOMFORT
12K	High Limit Cut Out
12l	Cylinder Thermostat
12m	Outdoor Temperature Sensor
16	Rotary Isolator
17	Electric Meter

REV	DATE	DESCRIPTION
D	14/09/2023	Added aroTHERM plus 400V option

Domestic Cold Water
Domestic Hot Water
Heating Flow
Heating Return
Glycol Flow
Glycol Return

230/400V Wire
Low Voltage Sensor Wire
Low Voltage eBUS
Low Voltage Demand Signal
eBUS +
eBUS -

Indicates Cable Junction
Indicates No. of cable cores (3)

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Drawn: A.RICE
14/09/2023 REV: D

Appliance(s): aroTHERM plus, Hydraulic Station, Heat Ex. Module, Buffer (45/100L)
Control(s): sensoCOMFORT VRC 720

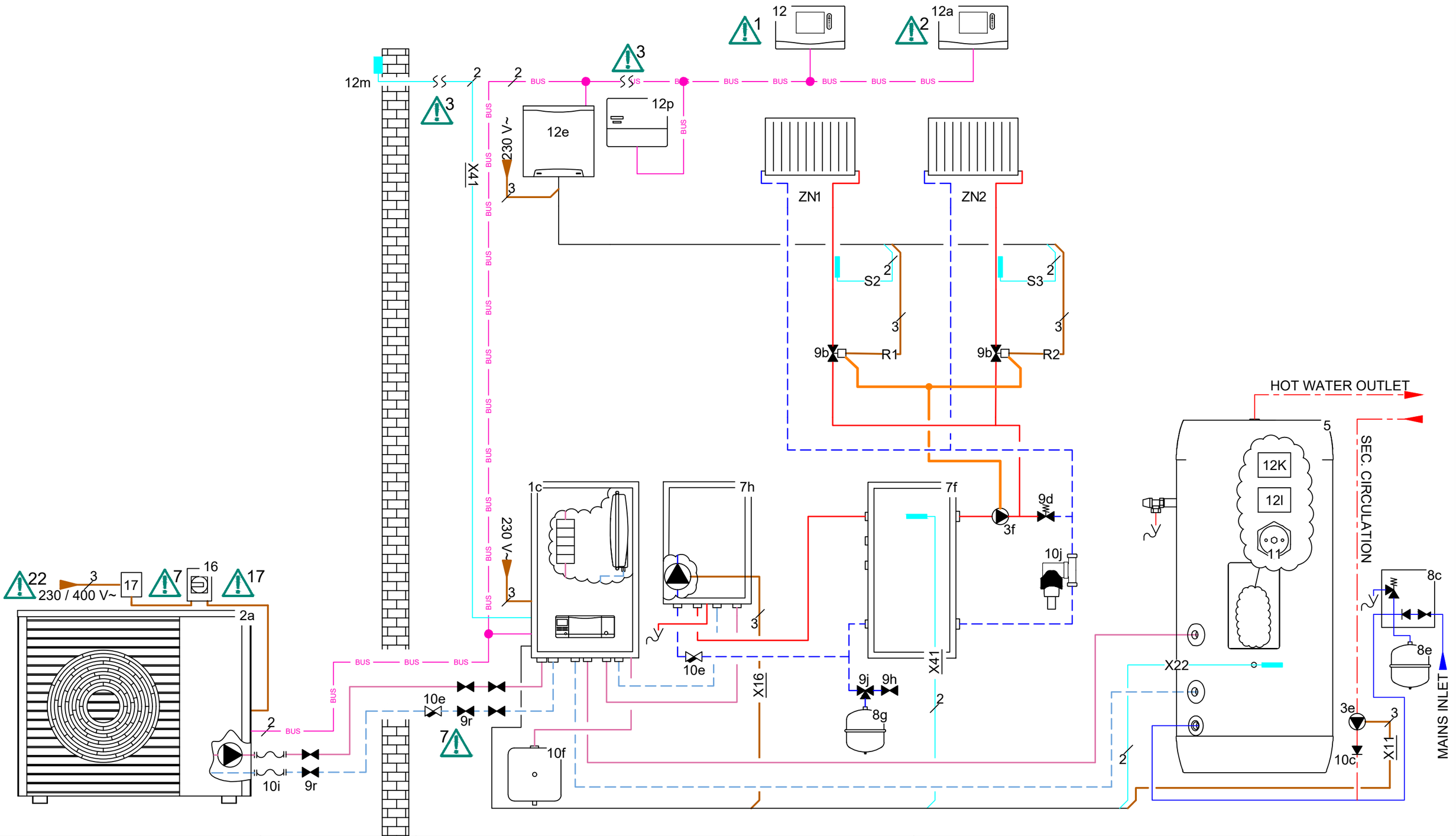
HTG. Circuit(s): 1x UFH(X) - 3rd Party, ,
Domestic Hot Water: 1x Cylinder

30210-1012

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
2. Set VR92 remote address to its zone number - 1
   eg. If VR92 is in zone 3, then remote address must be set to 2.

3. Controls and outdoor sensor can be wired or wireless
7. Optional for metering purposes
17. Rotary Isolator must be situated outside of the Protective Zone
22. Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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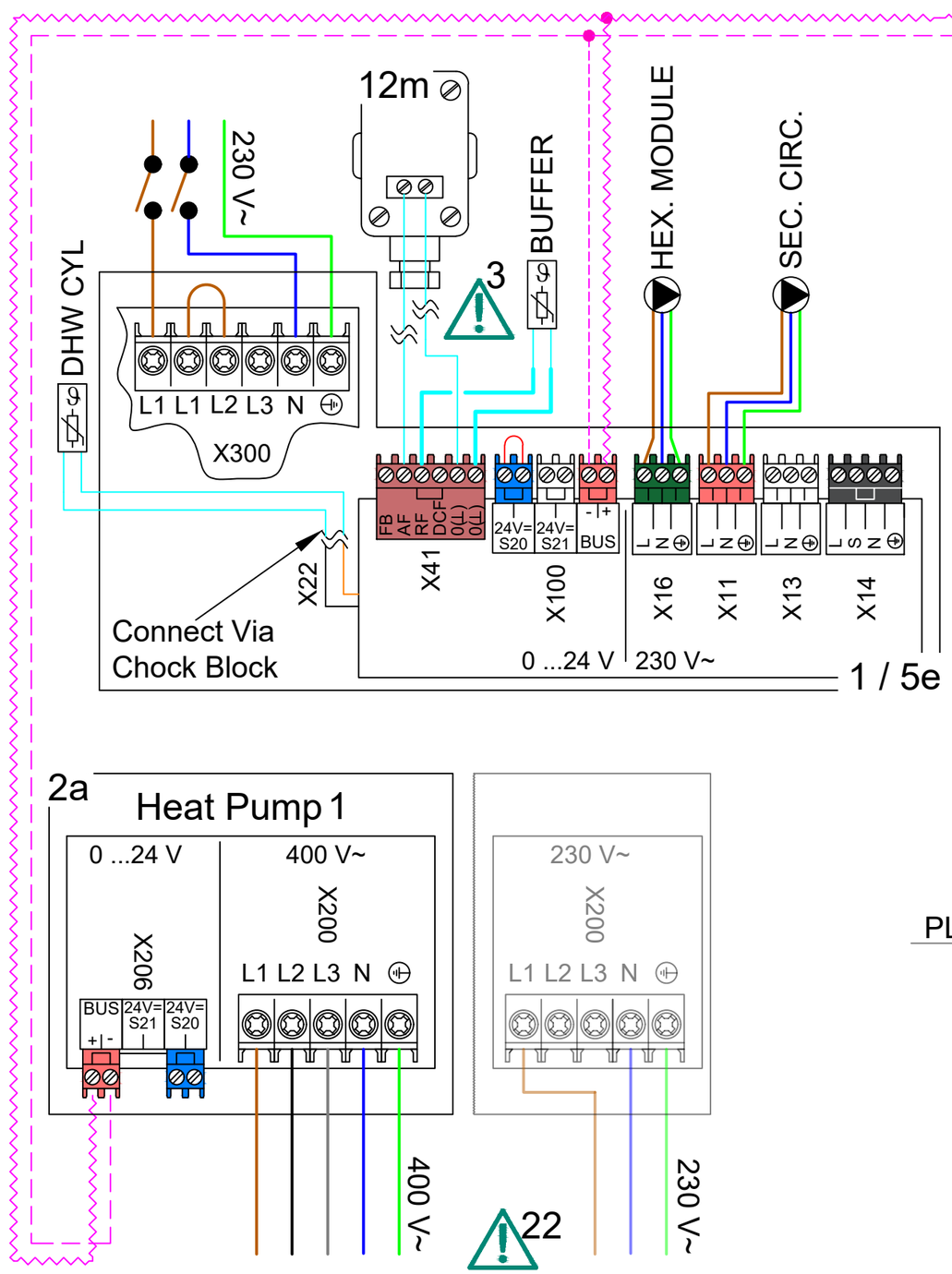
Drawn: A.RICE	Appliance(s): aroTHERM plus, Hydraulic Station, Heat Ex. Module, Buffer (45/100L)	HTG. Circuit(s): 2x Radiator - Vaillant Direct, ,	
14/09/2023 REV: C	Control(s): sensoCOMFORT	Domestic Hot Water: 1x Cylinder	Page 1 / 3

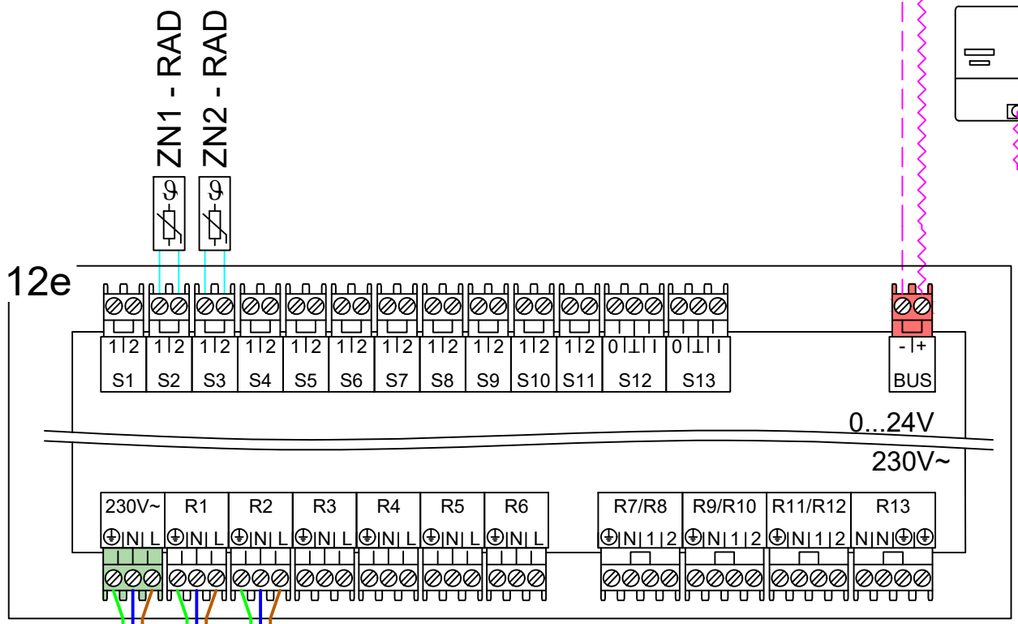
30210-1012

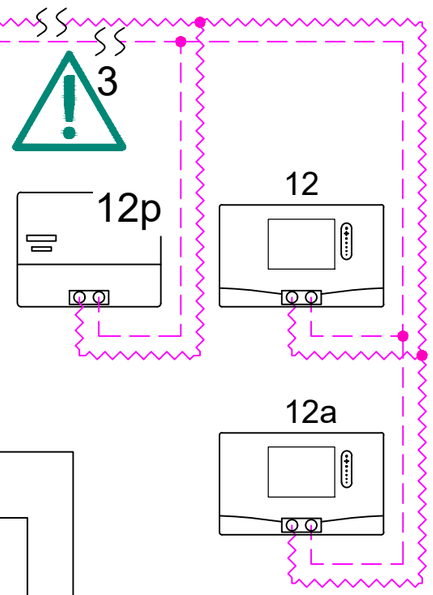
-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
2. Set VR92 remote address to its zone number - 1
   eg. If VR92 is in zone 3, then remote address must be set to 2.

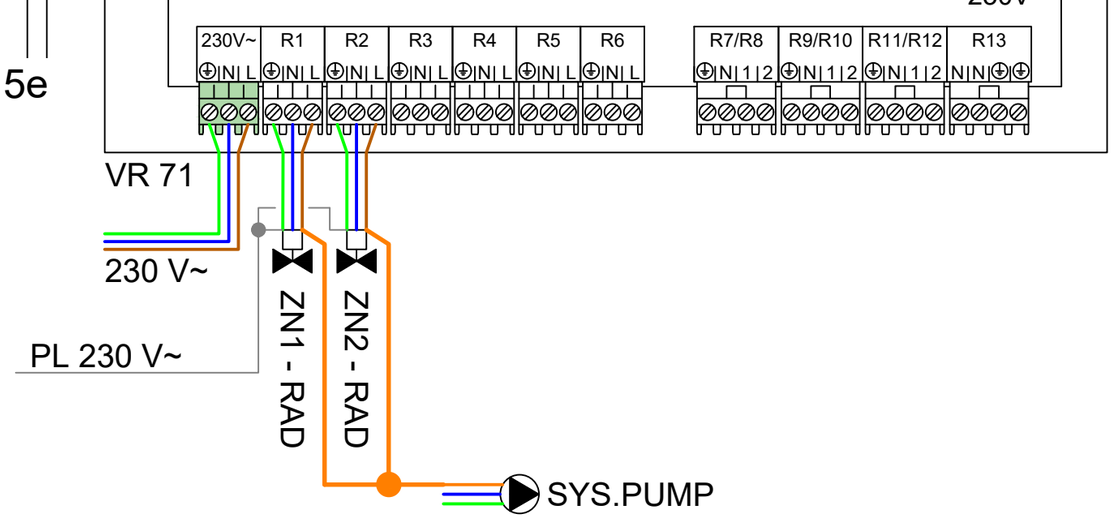
3. Controls and outdoor sensor can be wired or wireless
7. Optional for metering purposes
17. Rotary Isolator must be situated outside of the Protective Zone
22. Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant









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Drawn: A.RICE
14/09/2023 REV: C

Appliance(s): aroTHERM plus, Hydraulic Station, Heat Ex. Module, Buffer (45/100L)
Control(s): sensoCOMFORT

HTG. Circuit(s): 2x Radiator - Vaillant Direct, ,
Domestic Hot Water: 1x Cylinder

30210-1012

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sensoCOMFORT VRC720/2 System Configuration

Not all settings are displayed, commissioning of the controller should be done diligently; going through each adjustable option with consideration to the property and system requirements.

*1 If back-up boiler is set to Off then the back-up heater inside the hydraulic station will not function as support in this setup.

Setting	Value
Installation	
Adapt. heat curve:	Deactivated
Hybrid manager:	Bivalence pt
Heating bivalence point:	-20°
DHW bivalence point:	-20°
Alternative point:	Off
ESCO:	HP + BUH off
Back-up boiler *1:	Off
Conf. ext. input:	Bridge, deactiv.
Basic system diagram config.	
Basic system diagram code:	10
HP control module configuration	
MO 2:	Circulation pump
Circuit 1	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45°
Set-back mode:	Normal
Room temp. mod.:	Expanded

Setting	Value
Circuit 2	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45°
Set-back mode:	Normal
Room temp. mod.:	Expanded
Zone 1	
Zone activated:	Yes
Zone assignment:	Control
Zone 2	
Zone activated:	Yes
Zone assignment:	Rem. contr. 1
Domestic hot water	
Cylinder:	Active
Anti-legio. day:	**User preference
Anti-legio. time:	**User preference
Cylinder charging offset:	15 K
Cyl. charg. anti-cycl. time:	5 min

01c	Hydraulic Station
02	aroTHERM plus
03e	Secondary Circulation Pump
03f	General Pump
05	uniSTOR DHW Cylinder
07f	45/100L Buffer
07h	HEX. Module
08c	DHW Inlet Safety Group
08e	Heating / DHW Expansion Vessel
08g	Brine Expansion Vessel
09b	Zone Valve
09d	Bypass Valve
09h	Fill / Drain Valve
09r	Isolation Valve
10c	Non-return Valve
10e	Y Strainer
10f	Brine Collection Tank
10i	Flexible Connection
10j	Magnetic Filter
11	Immersion Heater
12e	Wiring Centre - VR 71
12K	High Limit Cut Out
12l	Cylinder Thermostat
12m	Outdoor Temperature Sensor
12p	Wireless Reciever
16	Rotary Isolator
17	Electric Meter

REV	DATE	DESCRIPTION	ZONE
C	14/09/2023	Added aroTHERM plus 400V option	2,E

Domestic Cold Water
Domestic Hot Water
Heating Flow
Heating Return
Glycol Flow
Glycol Return

230/400V Wire
Low Voltage Sensor Wire
Low Voltage eBUS
Low Voltage Demand Signal
eBUS +
eBUS -

Indicates Cable Junction
Indicates No. of cable cores

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Drawn: A.RICE
14/09/2023 REV: C

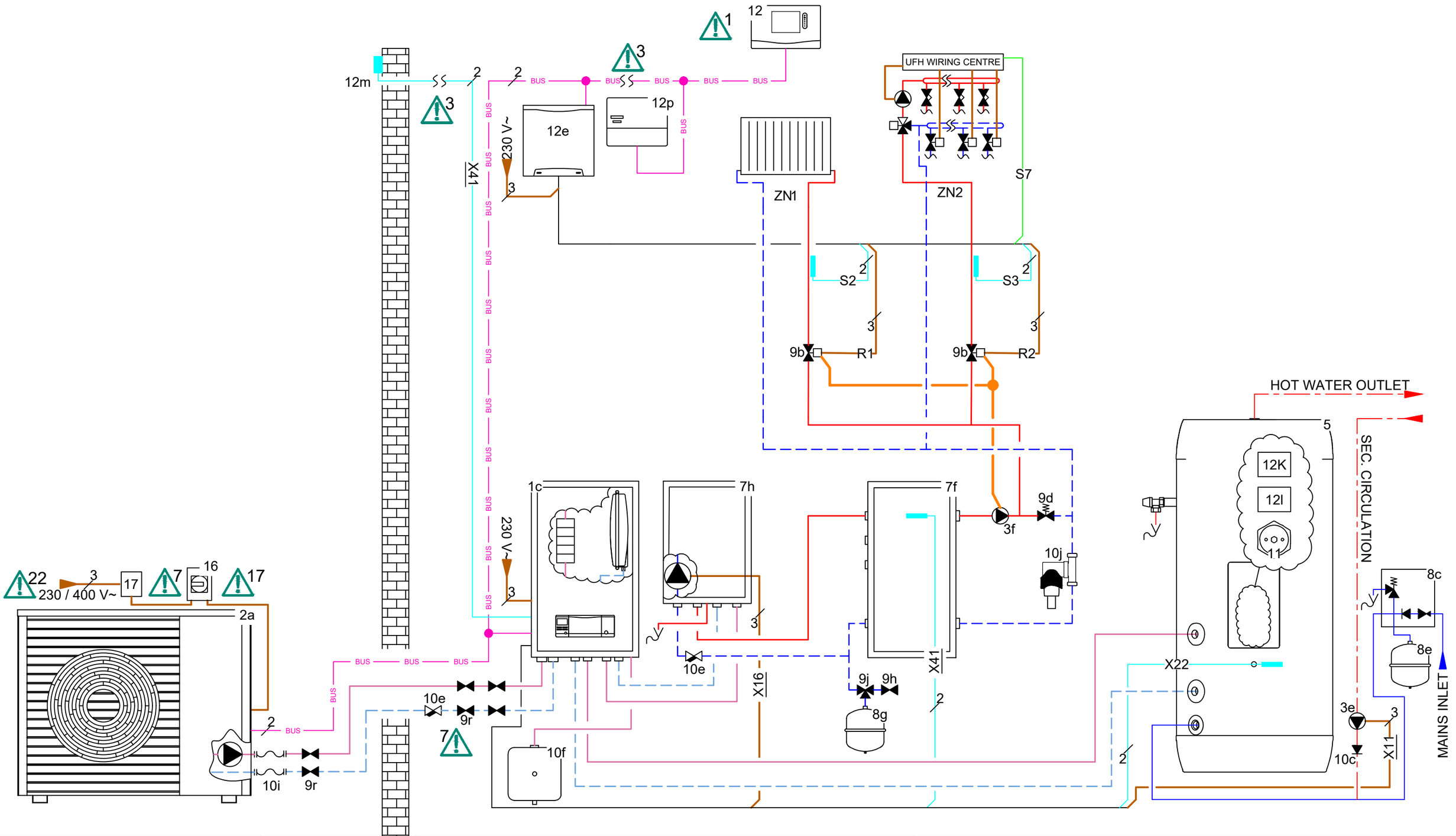
Appliance(s): aroTHERM plus, Hydraulic Station, Heat Ex. Module, Buffer (45/100L)
Control(s): sensoCOMFORT

HTG. Circuit(s): 2x Radiator - Vaillant Direct, ,
Domestic Hot Water: 1x Cylinder

30211-1012

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
3. Controls and outdoor sensor can be wired or wireless
4. Link required (not factory fitted).
7. Optional for metering purposes.
17. Rotary Isolator must be situated outside of the Protective Zone
22. Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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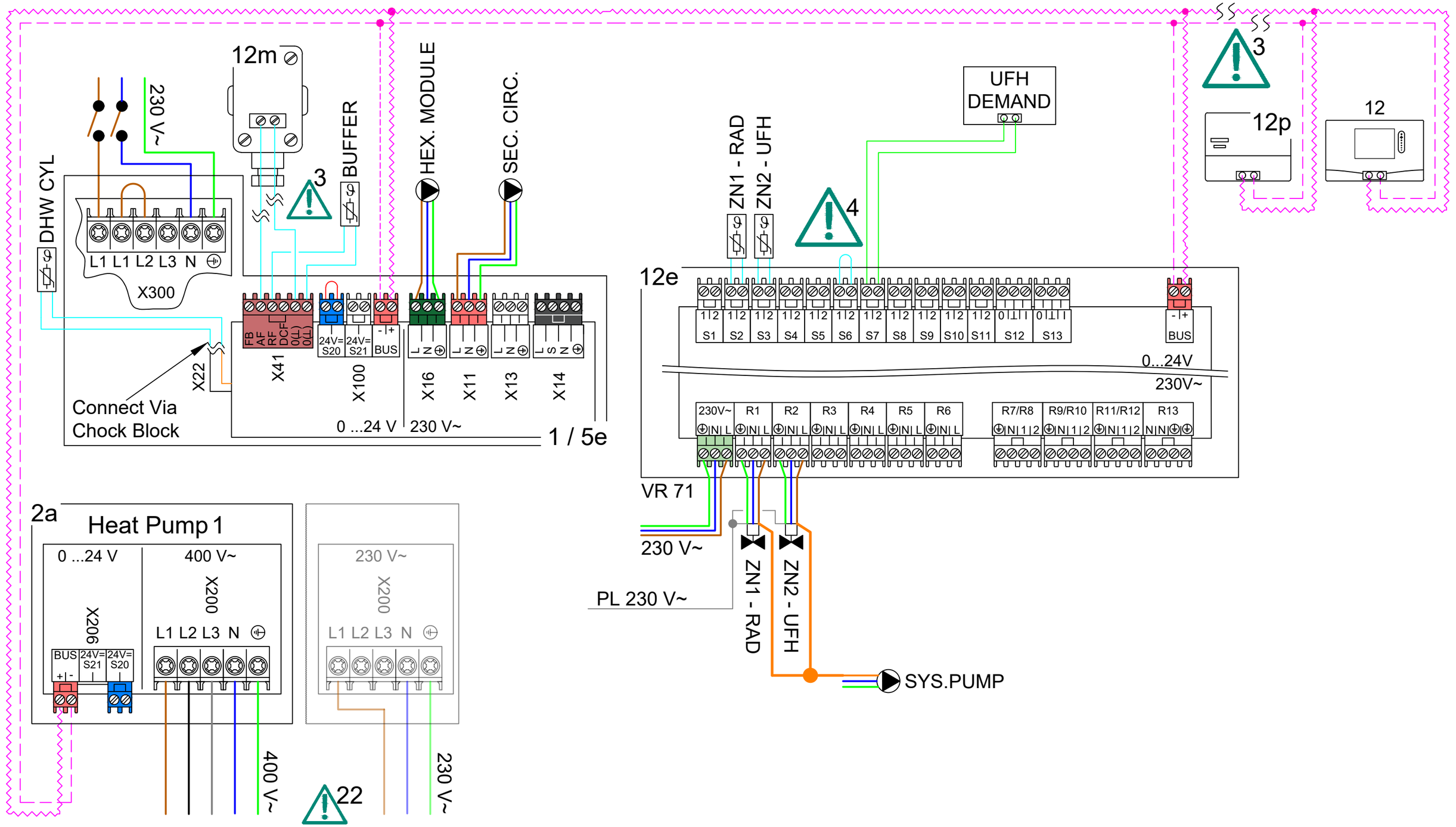
Drawn: A.RICE	Appliance(s): aroTHERM plus, Hydraulic Station, Heat Ex. Module, Buffer (45/100L)	HTG. Circuit(s): 1x Radiator - Direct, 1x UFH(X) - 3rd Party,	
15/09/2023 REV: C	Control(s): sensoCOMFORT	Domestic Hot Water: 1x Cylinder	Page 1 / 3

30211-1012

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
3. Controls and outdoor sensor can be wired or wireless
4. Link required (not factory fitted).
7. Optional for metering purposes.
17. Rotary Isolator must be situated outside of the Protective Zone
22. Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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Drawn: A.RICE
15/09/2023 REV: C

Appliance(s): aroTHERM plus, Hydraulic Station, Heat Ex. Module, Buffer (45/100L)
Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Direct, 1x UFH(X) - 3rd Party,
Domestic Hot Water: 1x Cylinder

30211-1012

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sensoCOMFORT VRC 720/2 System Configuration

Not all settings are displayed, commissioning of the controller should be done diligently; going through each adjustable option with consideration to the property and system requirements.

*1 If back-up boiler is set to Off then the back-up heater inside the hydraulic station will not function as support in this setup.

Setting	Value
Installation	
Adapt. heat curve:	Deactivated
Hybrid manager:	Bivalence pt
Heating bivalence point:	-20°
DHW bivalence point:	-20°
Alternative point:	Off
ESCO:	HP + BUH off
Back-up boiler *1:	Off
Conf. ext. input:	Open, deactiv.
Basic system diagram config.	
Basic system diagram code:	10
HP control module configuration	
MO 2:	Circulation pump
Circuit 1	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45°
Set-back mode:	Normal
Room temp. mod.:	Expanded

Setting	Value
Circuit 2	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45°
Set-back mode:	Eco
Room temp. mod.:	Inactive
Zone 1	
Zone activated:	Yes
Zone assignment:	Control
Zone 2	
Zone activated:	Yes
Zone assignment:	No assignmt
Domestic hot water	
Cylinder:	Active
Anti-legio. day:	**User preference
Anti-legio. time:	**User preference
Cylinder charging offset:	15 K
Cyl. charg. anti-cycl. time:	5 min

01c	Hydraulic Station
02	aroTHERM Plus
03e	Secondary Circulation Pump
03f	General Pump
05	uniSTOR DHW Cylinder
07f	45/100L Buffer
07h	HEX. Module
08c	DHW Inlet Safety Group
08e	Heating / DHW Expansion Vessel
08g	Brine Expansion Vessel
09b	Zone Valve
09d	Bypass Valve
09h	Fill / Drain Valve
09r	Isolation Valve
10c	Non-return Valve
10e	Y Strainer
10f	Brine Collection Tank
10i	Flexible Connection
10j	Magnetic Filter
11	Immersion Heater
12e	Wiring Centre - VR 71
12K	High Limit Cut Out
12l	Cylinder Thermostat
12m	Outdoor Temperature Sensor
12p	Wireless Reciever
16	Rotary Isolator
17	Electric Meter

REV	DATE	DESCRIPTION	ZONE
C	15/09/2023	Added aroTHERM plus 400V option	2,E

Domestic Cold Water
Domestic Hot Water
Heating Flow
Heating Return
Glycol Flow
Glycol Return

230/400V Wire
Low Voltage Sensor Wire
Low Voltage eBUS
Low Voltage Demand Signal
eBUS +
eBUS -

Indicates Cable Junction
Indicates No. of cable cores

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Drawn: A.RICE
15/09/2023 REV: C

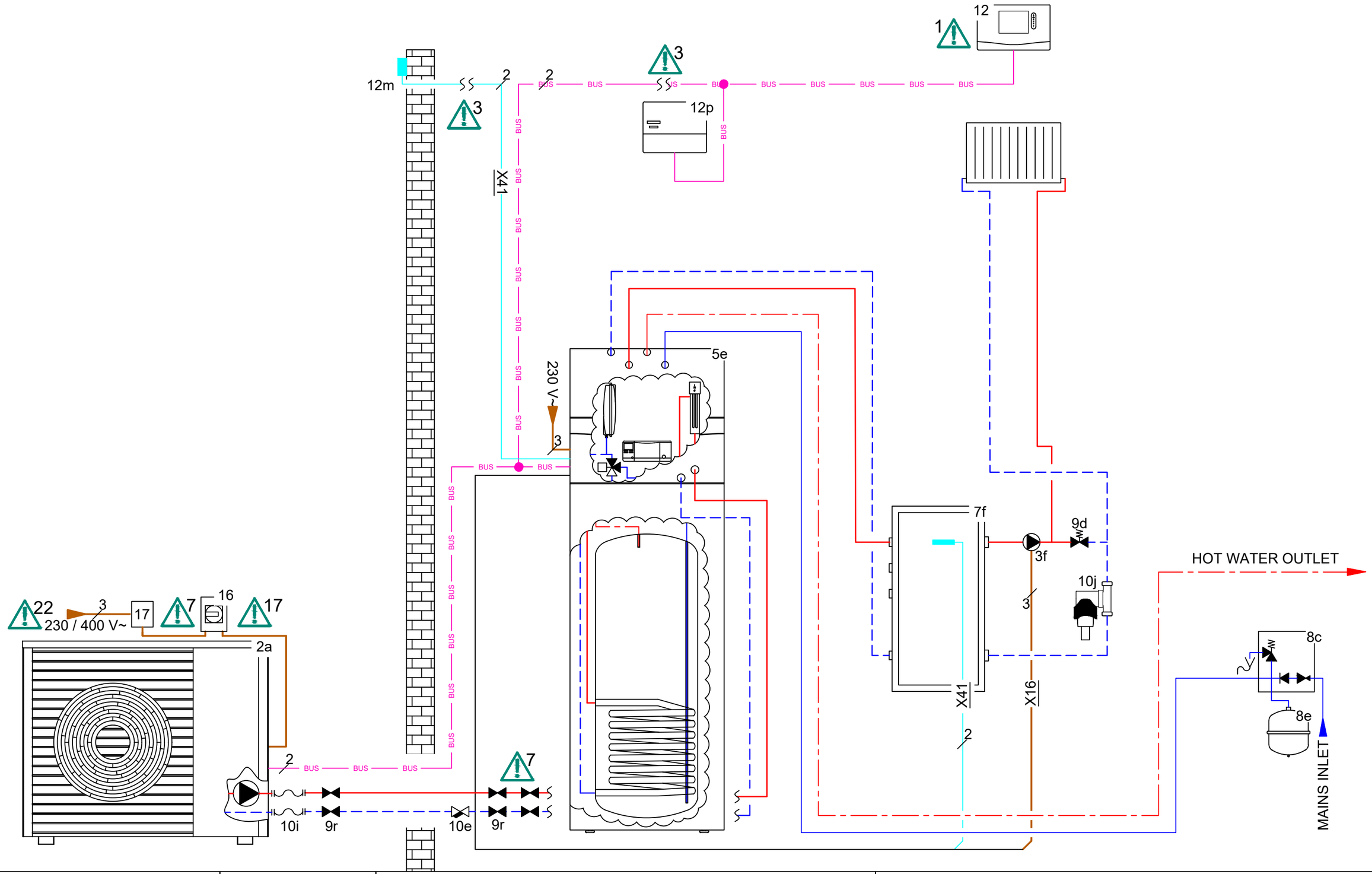
Appliance(s): aroTHERM plus, Hydraulic Station, Heat Ex. Module, Buffer (45/100L)
Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Direct, 1x UFH(X) - 3rd Party,
Domestic Hot Water: 1x Cylinder

30220-1011

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
3. Controls and outdoor sensor can be wired or wireless
7. Optional for metering purposes.

17. Rotary Isolator must be situated outside of the Protective Zone
22.Electrical supply voltage depending on the installation and appliance: 230 V, 400 V



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Drawn: A.RICE

19/09/2023 REV: D

Appliance(s): aroTHERM plus, uniTOWER, Buffer (45/100L)

Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Direct, ,

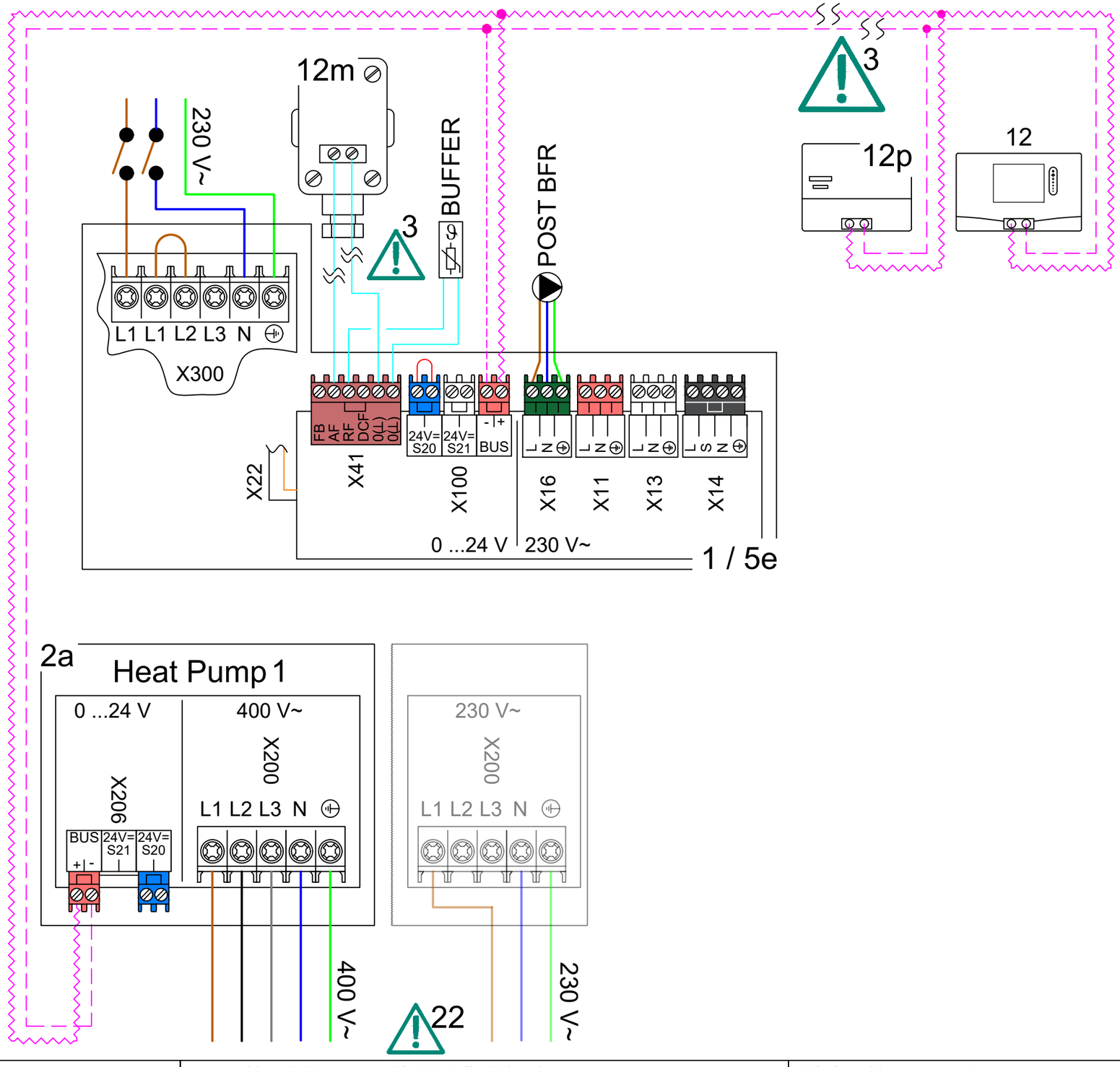
Domestic Hot Water: uniTOWER

30220-1011

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
3. Controls and outdoor sensor can be wired or wireless
7. Optional for metering purposes.

17. Rotary Isolator must be situated outside of the Protective Zone
22.Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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Drawn: A.RICE
19/09/2023 REV: D

Appliance(s): aroTHERM plus, uniTOWER, Buffer (45/100L)
Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Direct, ,
Domestic Hot Water: uniTOWER

30220-1011

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sensoCOMFORT VRC 720/2 System Configuration

Not all settings are displayed, commissioning of the controller should be done diligently; going through each adjustable option with consideration to the property and system requirements.

*1 If back-up boiler is set to Off then the back-up heater inside the uniTOWER will not function as support in this setup.

Setting	Value
Installation	
Adapt. heat curve:	Deactivated
Hybrid manager:	Bivalence pt
Heating bivalence point:	-20°
DHW bivalence point:	-20°
Alternative point:	Off
ESCO:	HP + BUH off
Back-up boiler*1:	Off
Basic system diagram config.	
Basic system diagram code:	10
HP control module configuration	
MO 2:	Not connected
Circuit 1	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45°
Set-back mode:	Normal
Room temp. mod.:	Expanded
Zone 1	
Zone activated:	Yes
Zone assignment:	Control
Domestic hot water	
Cylinder:	Active
Anti-legio. day:	**User preference
Anti-legio. time:	**User preference
Cylinder charging offset:	15 K
Cyl. charg. anti-cycl. time:	5 min

Vaillant

02	aroTHERM plus
03f	General Pump
05e	uniTOWER
07f	45/100L Buffer
08c	DHW Inlet Safety Group
08e	Heating / DHW Expansion Vessel
09d	Bypass Valve
09r	Isolation Valve
10e	Y Strainer
10i	Flexible Connection
10j	Magnetic Filter
12	sensoCOMFORT
12m	Outdoor Temperature Sensor
12p	Wireless Reciever
16	Rotary Isolator
17	Electric Meter

REV	DATE	DESCRIPTION
D	19/09/2023	Added aroTHERM plus 400V option

Domestic Cold Water
Domestic Hot Water
Heating Flow
Heating Return
Glycol Flow
Glycol Return

230/400V Wire
Low Voltage Sensor Wire
Low Voltage eBUS — BUS
Low Voltage Demand Signal
eBUS +
eBUS -

Indicates Cable Junction — BUS
Indicates No. of cable cores — 3

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Drawn: A.RICE
19/09/2023 REV: D

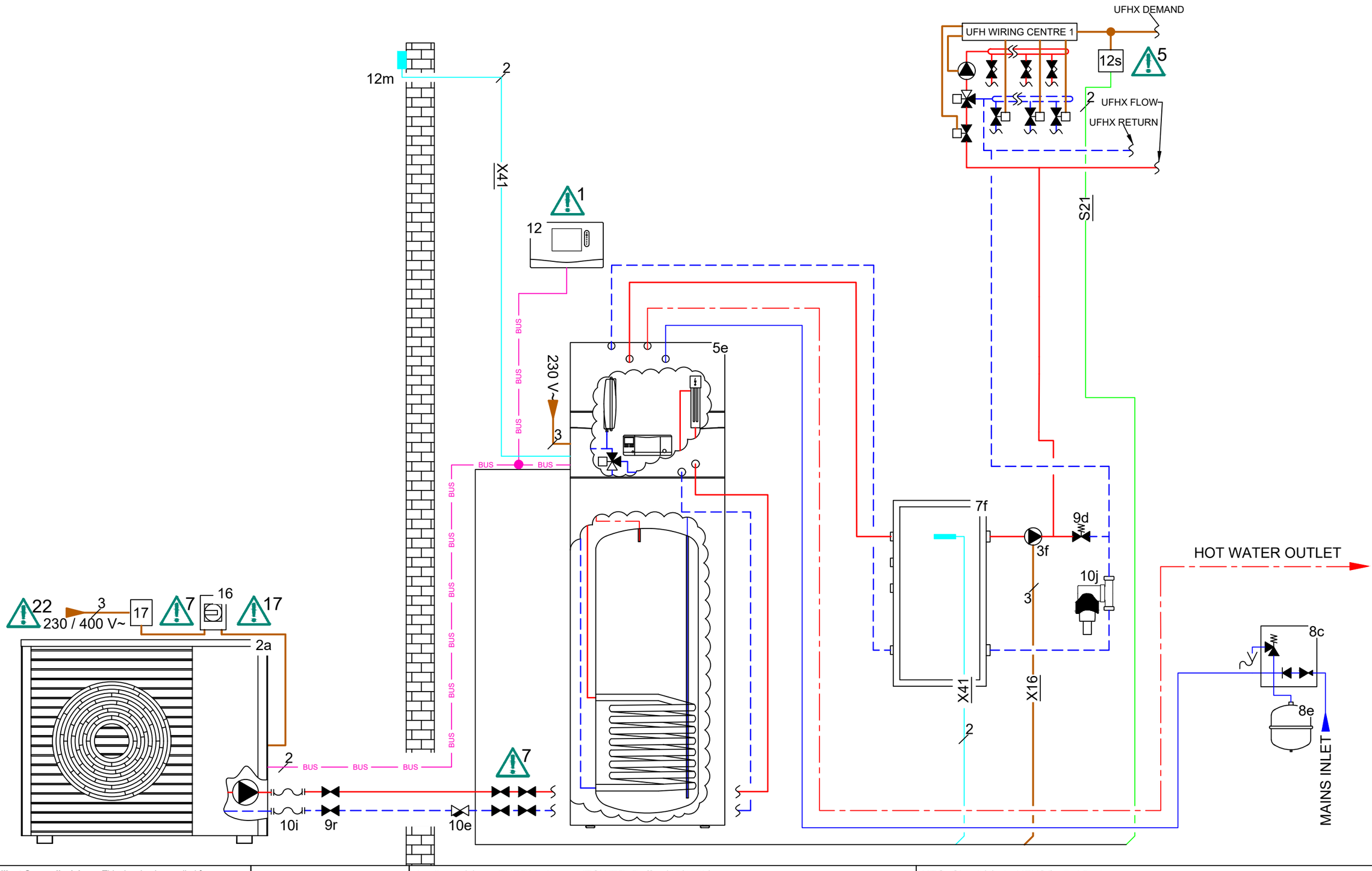
Appliance(s): aroTHERM plus, uniTOWER, Buffer (45/100L)
Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Direct, ,
Domestic Hot Water: uniTOWER

30221-1011

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
5. DPDT Relay (not supplied by Vaillant). See page 2 for detailed wiring.
7. Optional for metering purposes.

17. Rotary Isolator must be situated outside of the Protective Zone
22.Electrical supply voltage depending on the installation and appliance: 230 V, 400 V



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Drawn: A.RICE
19/09/2023 REV: D

Appliance(s): aroTHERM plus, uniTOWER, Buffer (45/100L)
Control(s): sensoCOMFORT VRC720

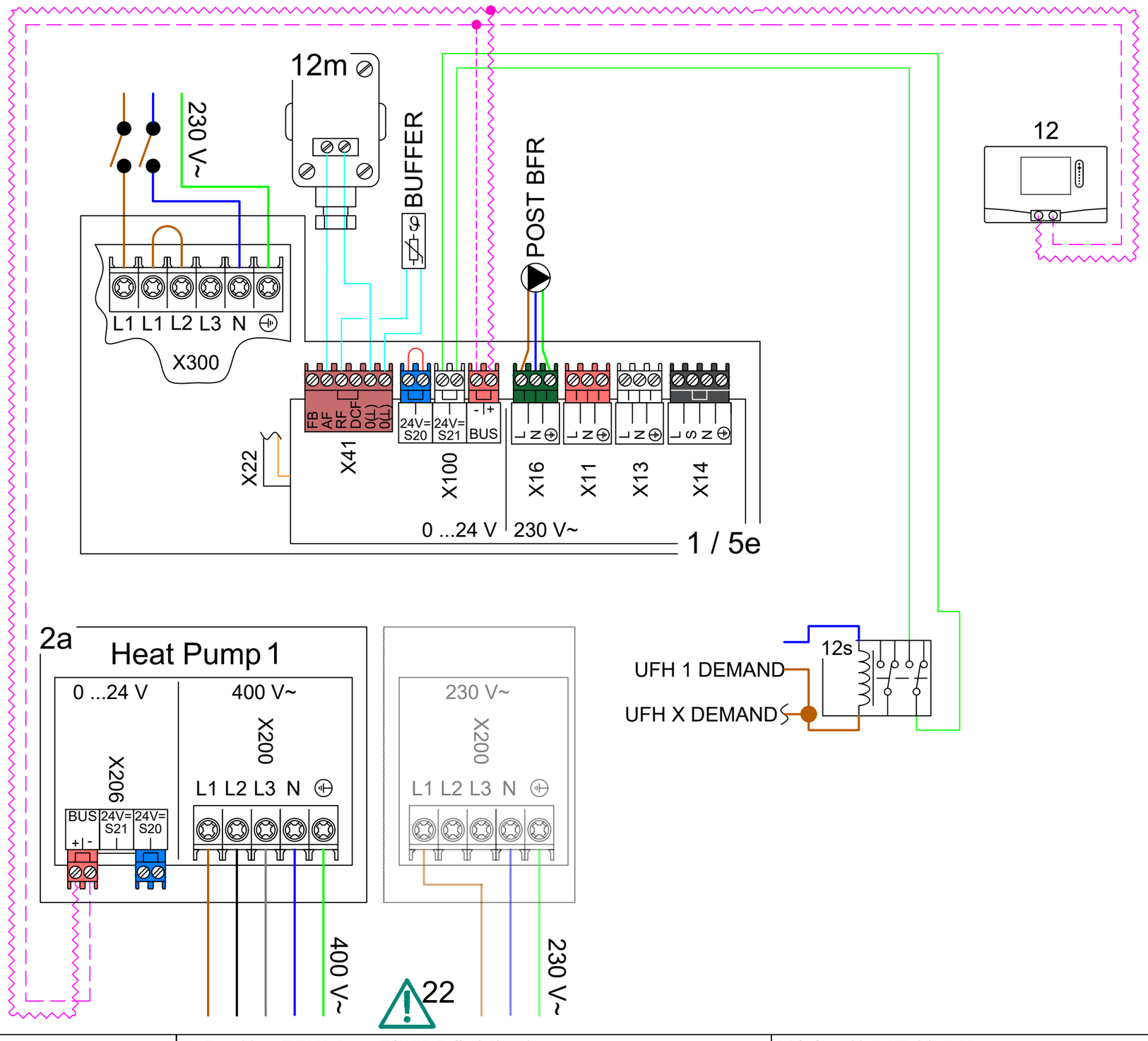
HTG. Circuit(s): 1x UFH(X) - 3rd Party, ,
Domestic Hot Water: uniTOWER

30221-1011

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
5. DPDT Relay (not supplied by Vaillant). See page 2 for detailed wiring.
7. Optional for metering purposes.

17. Rotary Isolator must be situated outside of the Protective Zone
22.Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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Drawn: A.RICE
19/09/2023 REV: D

Appliance(s): aroTHERM plus, uniTOWER, Buffer (45/100L)
Control(s): sensoCOMFORT VRC720

HTG. Circuit(s): 1x UFH(X) - 3rd Party, ,
Domestic Hot Water: uniTOWER

30221-1011

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sensoCOMFORT VRC 720/2 System Configuration

Not all settings are displayed, commissioning of the controller should be done diligently; going through each adjustable option with consideration to the property and system requirements.

*1 If back-up boiler is set to Off then the back-up heater inside the uniTOWER will not function as support in this setup.

Setting	Value
Installation	
Adapt. heat curve:	Deactivated
Hybrid manager:	Bivalence pt
Heating bivalence point:	-20°
DHW bivalence point:	-20°
Alternative point:	Off
ESCO:	Heating off
Back-up boiler*1:	Off
Basic system diagram config.	
Basic system diagram code:	10
HP control module configuration	
MO 2:	Not connected
Circuit 1	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45°
Set-back mode:	Eco
Room temp. mod.:	Inactive
Zone 1	
Zone activated:	Yes
Zone assignment:	No assignmt

Setting	Value
Domestic hot water	
Cylinder:	Active
Anti-legio. day:	**User preference
Anti-legio. time:	**User preference
Cylinder charging offset:	15 K
Cyl. charg. anti-cycl. time:	5 min

Vaillant

02	aroTHERM plus
03f	General Pump
05e	uniTOWER
07f	45/100L Buffer
08c	DHW Inlet Safety Group
08e	Heating / DHW Expansion Vessel
09d	Bypass Valve
09r	Isolation Valve
10e	Y Strainer
10i	Flexible Connection
10j	Magnetic Filter
12	sensoCOMFORT
12m	Outdoor Temperature Sensor
16	Rotary Isolator
17	Electric Meter

REV	DATE	DESCRIPTION
D	19/09/2023	Added aroTHERM plus 400V option

Domestic Cold Water
Domestic Hot Water
Heating Flow
Heating Return
Glycol Flow
Glycol Return

230/400V Wire
Low Voltage Sensor Wire
Low Voltage eBUS
Low Voltage Demand Signal
eBUS +
eBUS -

Indicates Cable Junction

Indicates No. of cable cores (3)

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Drawn: A.RICE

19/09/2023 REV: D

Appliance(s): aroTHERM plus, uniTOWER, Buffer (45/100L)

Control(s): sensoCOMFORT VRC720

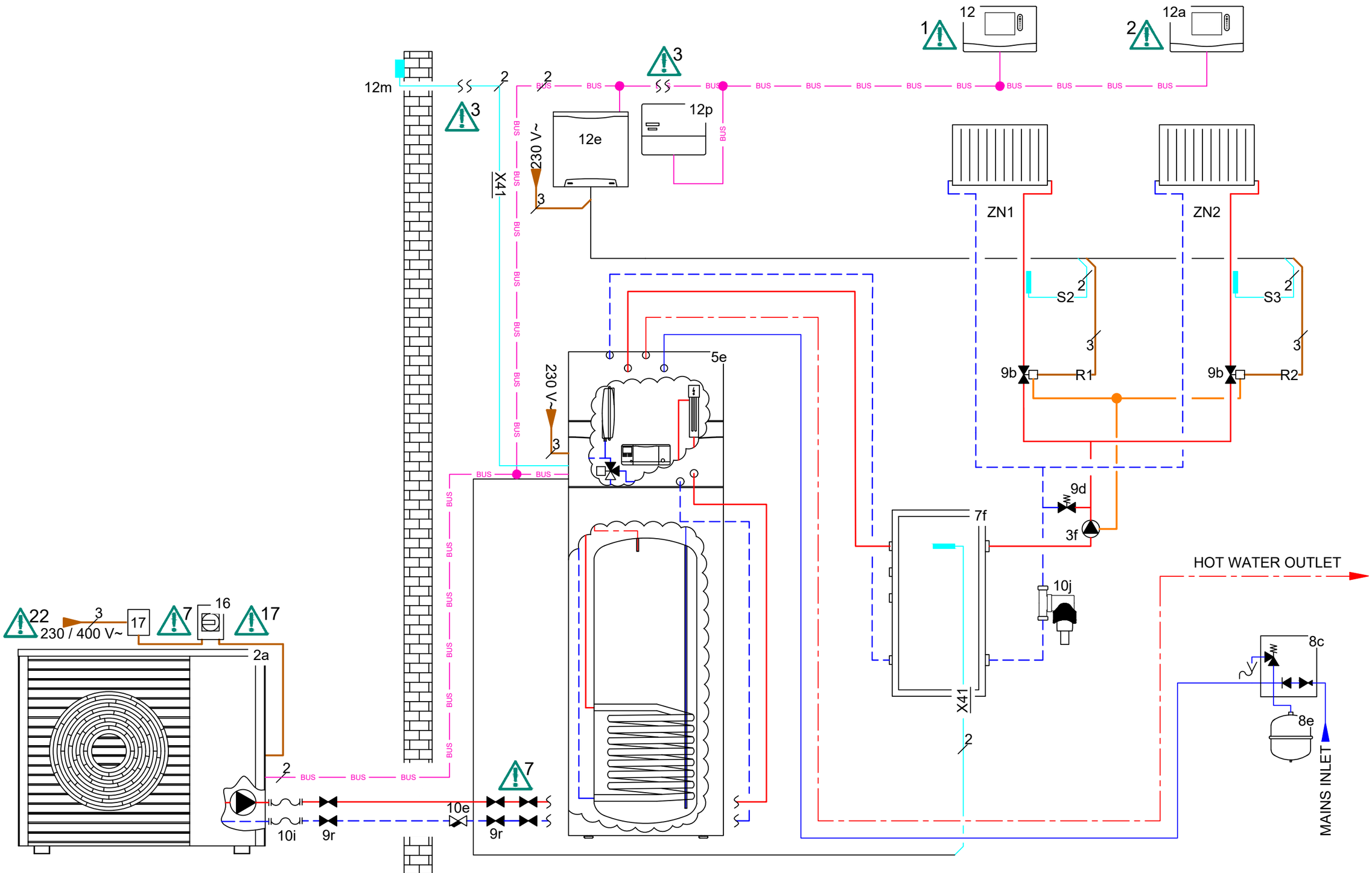
HTG. Circuit(s): 1x UFH(X) - 3rd Party, ,

Domestic Hot Water: uniTOWER

30230-1012

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
2. Set VR92 remote address to its zone number - 1
   eg. If VR92 is in zone 3, then remote address must be set to 2.

3. Controls and outdoor sensor can be wired or wireless
7. Optonal for metering purposes.
17. Rotary Isolator must be situated outside of the Protective Zone
22. Electrical supply voltage depending on the installation and appliance: 230 V, 400 V



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Drawn: A.RICE
19/09/2023 REV: D

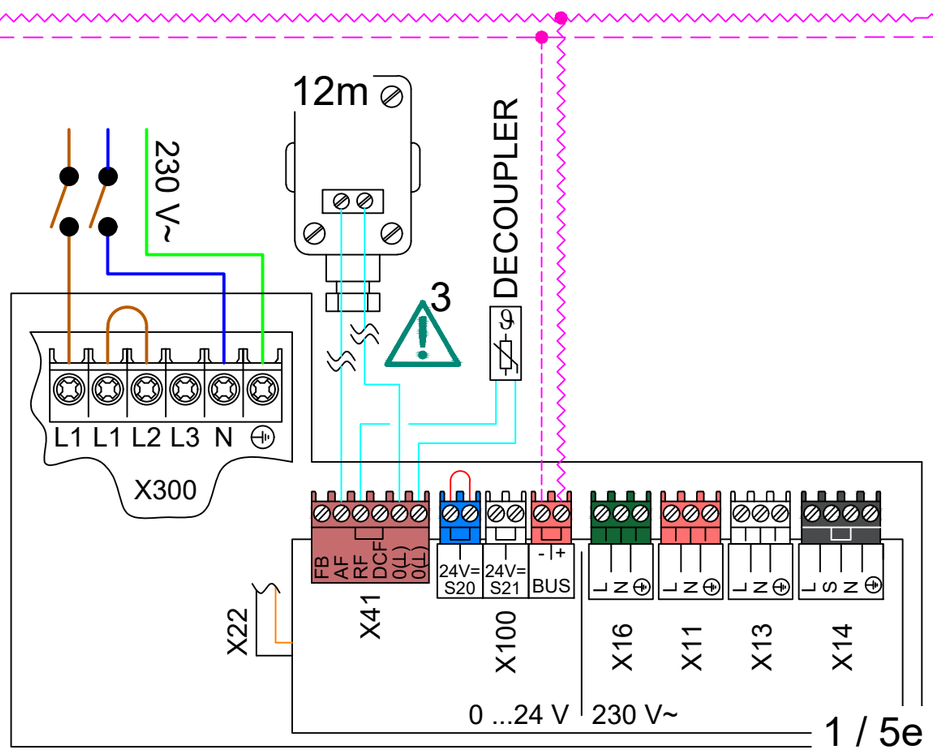
Appliance(s): aroTHERM plus, uniTOWER, Buffer (45/100L)
Control(s): sensoCOMFORT, VR 92

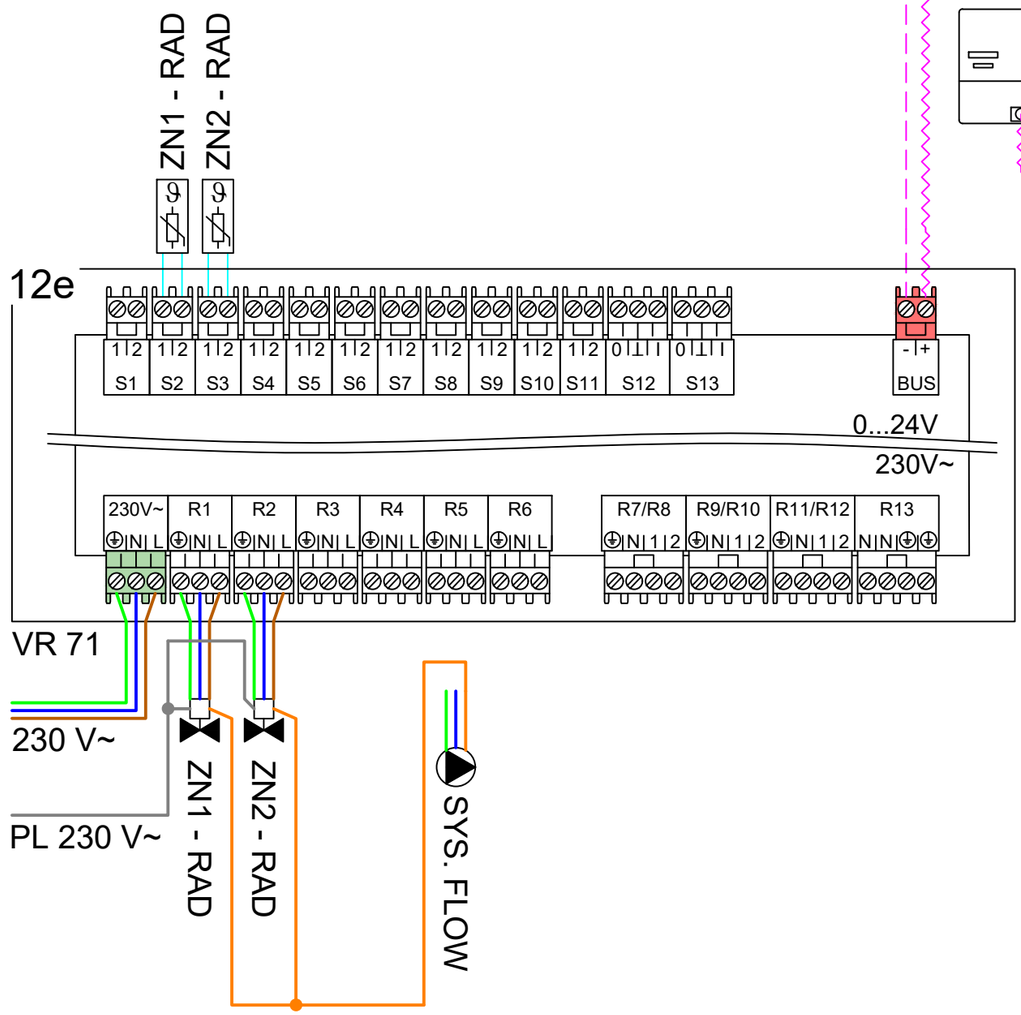
HTG. Circuit(s): 2x Radiator - Direct, ,
Domestic Hot Water: uniTOWER

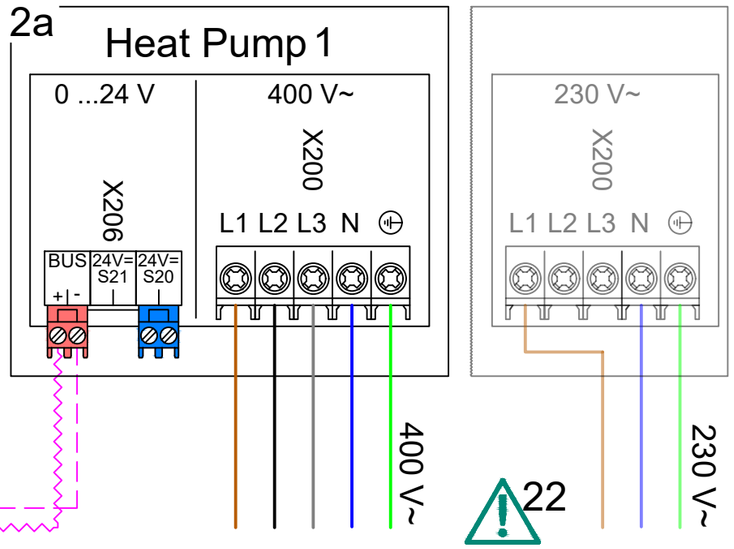
30230-1012

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
2. Set VR92 remote address to its zone number - 1
   eg. If VR92 is in zone 3, then remote address must be set to 2.

3. Controls and outdoor sensor can be wired or wireless
7. Optonal for metering purposes.
17. Rotary Isolator must be situated outside of the Protective Zone
22. Electrical supply voltage depending on the installation and appliance: 230 V, 400 V







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Drawn: A.RICE
19/09/2023 REV: D

Appliance(s): aroTHERM plus, uniTOWER, Buffer (45/100L)
Control(s): sensoCOMFORT, VR 92

HTG. Circuit(s): 2x Radiator - Direct, ,
Domestic Hot Water: uniTOWER

30230-1012

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sensoCOMFORT VRC 720/2 System Configuration

Not all settings are displayed, commissioning of the controller should be done diligently; going through each adjustable option with consideration to the property and system requirements.

*1 If back-up boiler is set to Off then the back-up heater inside the uniTOWER will not function as support in this setup.

Setting	Value
Installation	
Adapt. heat curve:	Deactivated
Hybrid manager:	Bivalence pt
Heating bivalence point:	-20°
DHW bivalence point:	-20°
Alternative point:	Off
ESCO:	HP + BUH off
Back-up boiler*1:	Off
Conf. ext. input:	Bridge, deactiv.
Basic system diagram config.	
Basic system diagram code:	8
FM5 configuration:	3
FM5 MO:	Not working
HP control module configuration	
MO 2:	Not connected
Circuit 1	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45°
Set-back mode:	Normal
Room temp. mod.:	Expanded

Setting	Value
Circuit 2	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45°
Set-back mode:	Normal
Room temp. mod.:	Expanded
Zone 1	
Zone activated:	Yes
Zone assignment:	Control
Zone 2	
Zone activated:	Yes
Zone assignment:	Rem. contr. 1
Domestic hot water	
Cylinder:	Active
Anti-legio. day:	**User preference
Anti-legio. time:	**User preference
Cylinder charging offset:	15 K
Cyl. charg. anti-cycl. time:	5 min

Vaillant

02	aroTHERM plus
03f	General Pump
05e	uniTOWER
07f	45/100L Buffer
08c	DHW Inlet Safety Group
08e	Heating / DHW Expansion Vessel
09b	Zone Valve
09d	Bypass Valve
09r	Isolation Valve
10e	Y Strainer
10i	Flexible Connection
10j	Magnetic Filter
12	sensoCOMFORT
12a	VR92
12e	Wiring Centre - VR 71
12m	Outdoor Temperature Sensor
12p	Wireless Reciever
16	Rotary Isolator
17	Electric Meter

REV	DATE	DESCRIPTION	ZONE
D	19/09/2023	Added aroTHERM plus 400V option	2,E

Domestic Cold Water
Domestic Hot Water
Heating Flow
Heating Return
Glycol Flow
Glycol Return

230/400V Wire
Low Voltage Sensor Wire
Low Voltage eBUS
Low Voltage Demand Signal
eBUS +
eBUS -

Indicates Cable Junction
Indicates No. of cable cores

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Drawn: A.RICE
19/09/2023 REV: D

Appliance(s): aroTHERM plus, uniTOWER, Buffer (45/100L)
Control(s): sensoCOMFORT, VR 92

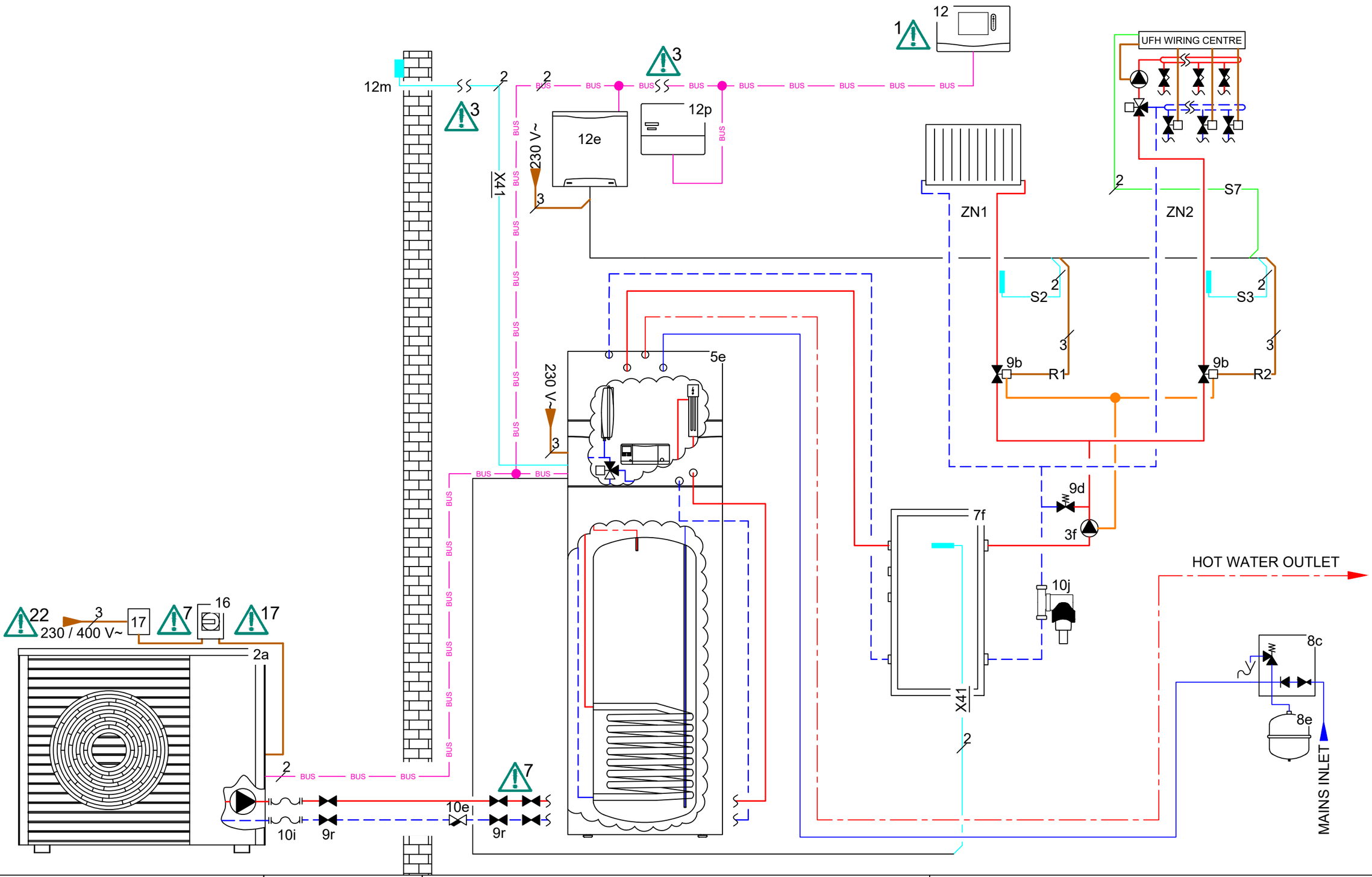
HTG. Circuit(s): 2x Radiator - Direct, ,
Domestic Hot Water: uniTOWER

30231-1012

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
3. Controls and outdoor sensor can be wired or wireless
4. Link required (not factory fitted).

7. Optional for metering purposes
17. Rotary Isolator must be situated outside of the Protective Zone
22. Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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Drawn: A.RICE

19/09/2023 REV: C

Appliance(s): aroTHERM plus, uniTOWER, Buffer (45/100L)

Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Direct, 1x UFH - 3rd Party,

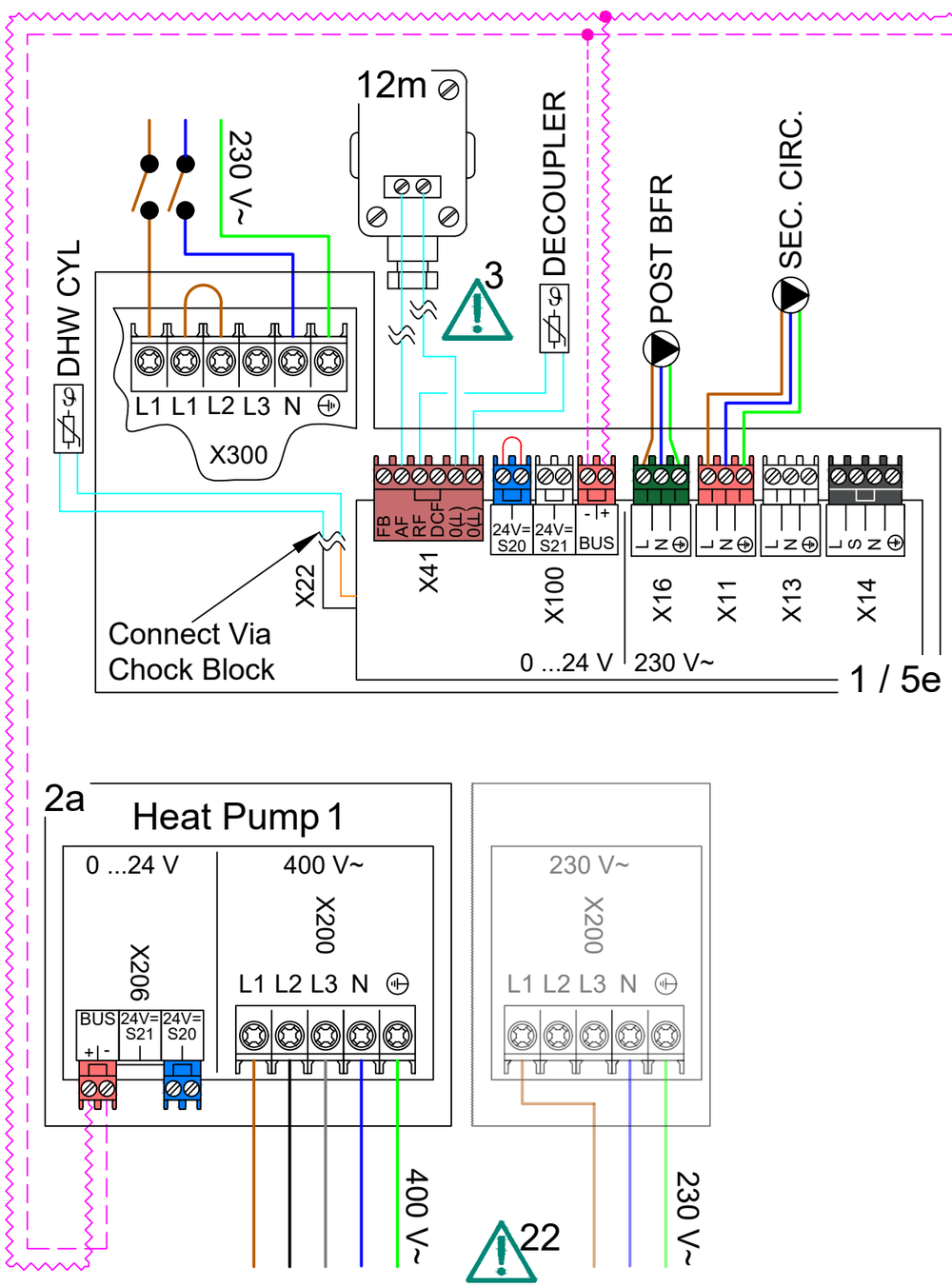
Domestic Hot Water: uniTOWER

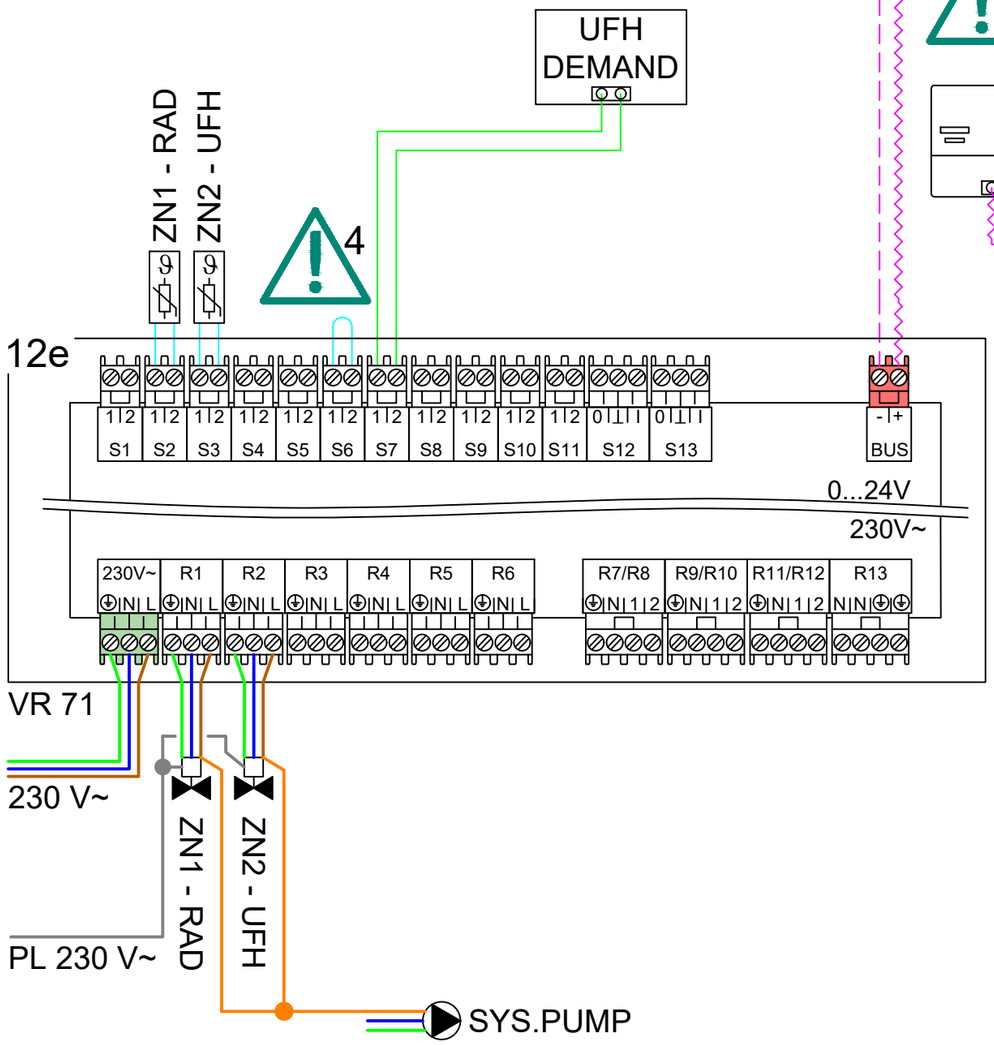
30231-1012

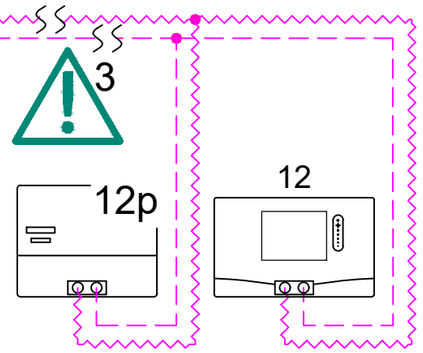
-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
3. Controls and outdoor sensor can be wired or wireless
4. Link required (not factory fitted).

7. Optional for metering purposes
17. Rotary Isolator must be situated outside of the Protective Zone
22. Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant







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Drawn: A.RICE
19/09/2023 REV: C

Appliance(s): aroTHERM plus, uniTOWER, Buffer (45/100L)
Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Direct, 1x UFH - 3rd Party,
Domestic Hot Water: uniTOWER

30231-1012

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sensoCOMFORT VRC 720/2 System Configuration

Not all settings are displayed, commissioning of the controller should be done diligently; going through each adjustable option with consideration to the property and system requirements.

*1 If back-up boiler is set to Off then the back-up heater inside the uniTOWER will not function as support in this setup.

Setting	Value
Installation	
Adapt. heat curve:	Deactivated
Hybrid manager:	Bivalence pt
Heating bivalence point:	-20°
DHW bivalence point:	-20°
Alternative point:	Off
ESCO:	HP + BUH off
Back-up boiler*1:	Off
Conf. ext. input:	Open, deactiv.
Basic system diagram config.	
Basic system diagram code:	8
FM5 configuration:	3
FM5 MO:	Not working
HP control module configuration	
MO 2:	Not connected
Circuit 1	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45°
Set-back mode:	Normal
Room temp. mod.:	Expanded

Setting	Value
Circuit 2	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45°
Set-back mode:	Eco
Room temp. mod.:	Inactive
Zone 1	
Zone activated:	Yes
Zone assignment:	Control
Zone 2	
Zone activated:	Yes
Zone assignment:	No assignmt
Domestic hot water	
Cylinder:	Active
Anti-legio. day:	**User preference
Anti-legio. time:	**User preference
Cylinder charging offset:	15 K
Cyl. charg. anti-cycl. time:	5 min

Vaillant

02	aroTHERM plus
03f	General Pump
05e	uniTOWER
07f	45/100L Buffer
08c	DHW Inlet Safety Group
08e	Heating / DHW Expansion Vessel
09b	Zone Valve
09d	Bypass Valve
09r	Isolation Valve
10e	Y Strainer
10i	Flexible Connection
10j	Magnetic Filter
12	sensoCOMFORT
12e	Wiring Centre - VR 71
12m	Outdoor Temperature Sensor
12p	Wireless Reciever
16	Rotary Isolator
17	Electric Meter

REV	DATE	DESCRIPTION	ZONE
C	19/09/2023	Added aroTHERM 400V option	2,E

Domestic Cold Water
Domestic Hot Water
Heating Flow
Heating Return
Glycol Flow
Glycol Return

230/400V Wire
Low Voltage Sensor Wire
Low Voltage eBUS
Low Voltage Demand Signal
eBUS +
eBUS -

Indicates Cable Junction
Indicates No. of cable cores

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Drawn: A.RICE
19/09/2023 REV: C

Appliance(s): aroTHERM plus, uniTOWER, Buffer (45/100L)
Control(s): sensoCOMFORT

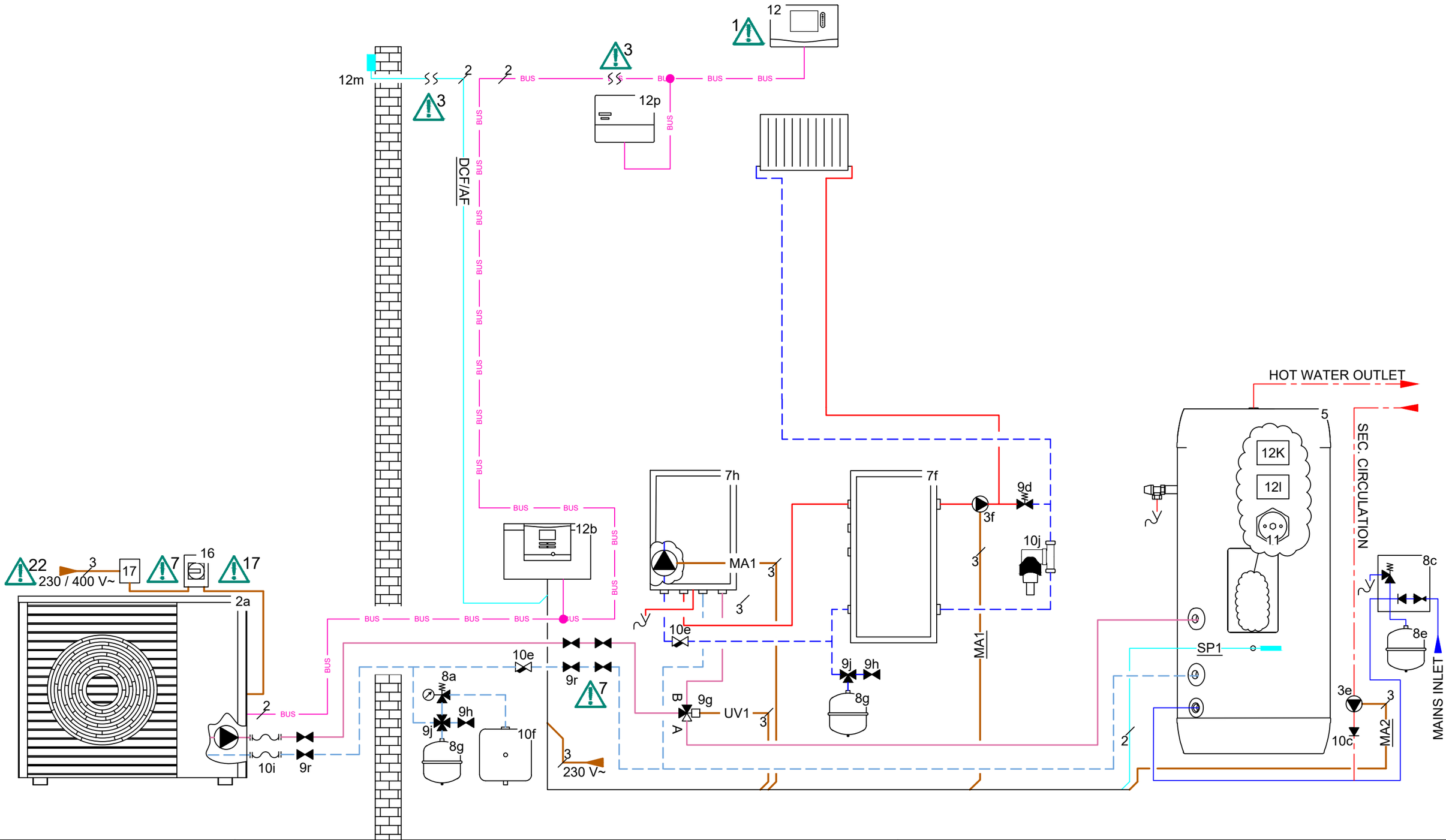
HTG. Circuit(s): 1x Radiator - Direct, 1x UFH - 3rd Party,
Domestic Hot Water: uniTOWER

30240-1011

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
3. Controls and outdoor sensor can be wired or wireless
7. Optional for metering purposes.

17. Rotary Isolator must be situated outside of the Protective Zone.
18. Maximum current draw of 2 Amps on MA1 terminal.
22. Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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Drawn: A.RICE

29/08/2023 REV: D

Appliance(s): aroTHERM Plus, Heat Ex. Module, Buffer (45/100L)

Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Direct, ,

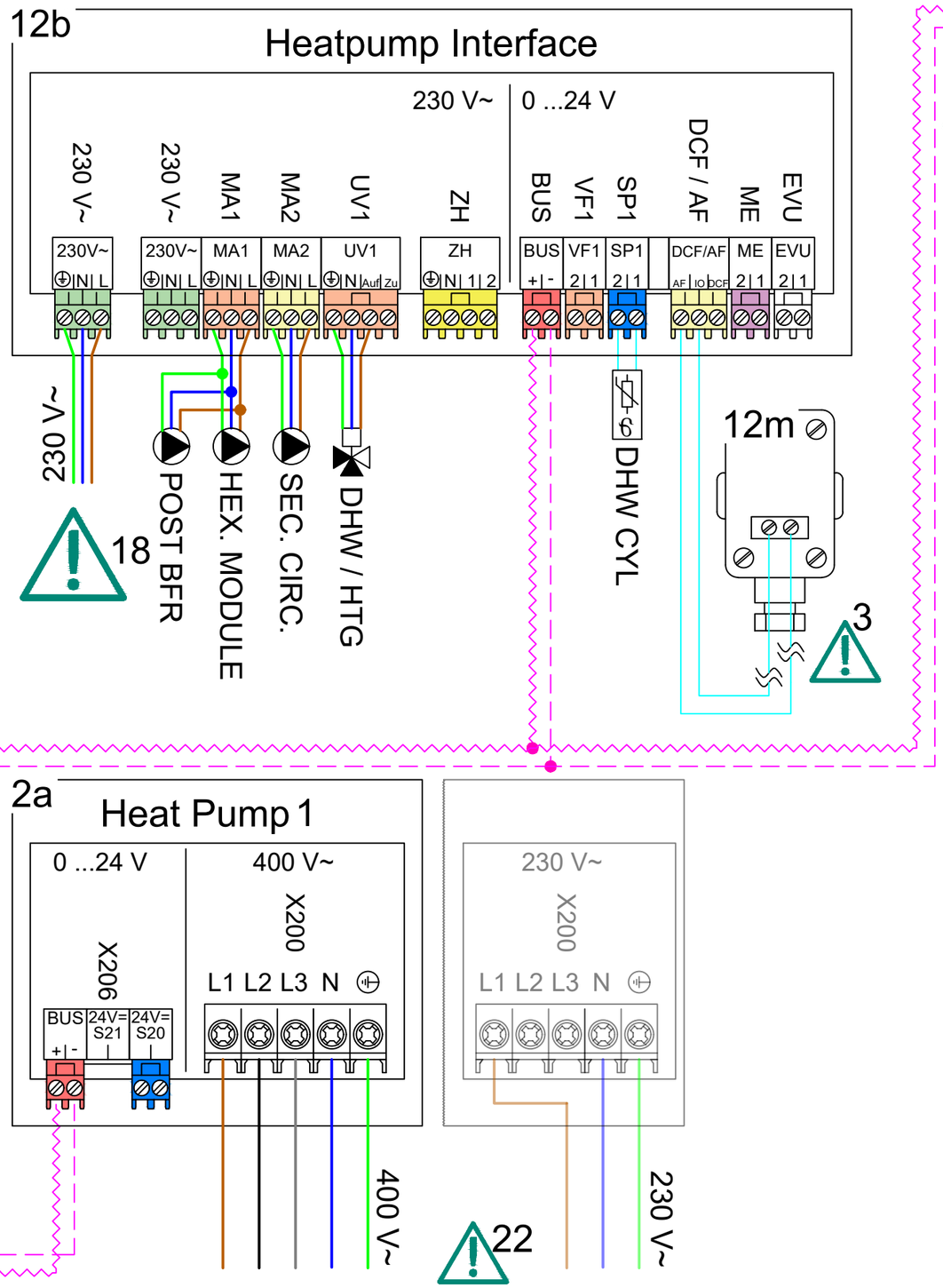
Domestic Hot Water: 1x Cylinder

30240-1011

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
3. Controls and outdoor sensor can be wired or wireless
7. Optional for metering purposes.

17. Rotary Isolator must be situated outside of the Protective Zone.
18. Maximum current draw of 2 Amps on MA1 terminal.
22. Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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Drawn: A.RICE
29/08/2023 REV: D

Appliance(s): aroTHERM Plus, Heat Ex. Module, Buffer (45/100L)
Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Direct, ,
Domestic Hot Water: 1x Cylinder

30240-1011

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sensoCOMFORT VRC 720/2 System Configuration

Not all settings are displayed, commissioning of the controller should be done diligently; going through each adjustable option with consideration to the property and system requirements.

Setting	Value
Installation	
Adapt. heat curve:	Deactivated
Hybrid manager:	Bivalence pt
Heating bivalence point:	-20°
DHW bivalence point:	-20°
Alternative point:	Off
ESCO:	HP + BUH Off
Back-up boiler:	Off
Basic system diagram config.	
Basic system diagram code:	10
HP control module configuration	
MO 2:	Circulation pump
Circuit 1	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45°
Set-back mode:	Normal
Room temp. mod.:	Expanded
Zone 1	
Zone activated:	Yes
Zone assignment:	Control
Domestic hot water	
Cylinder:	Active
Anti-legio. day:	**User preference
Anti-legio. time:	**User preference
Cylinder charging offset:	15 K
Cyl. charg. anti-cycl. time:	5 min

Vaillant

02	aroTHERM Plus
03e	Secondary Circulation Pump
03f	General Pump
05	uniSTOR DHW Cylinder
07f	45/100L Buffer
07h	HEX. Module
08a	Pressure Relief Valve
08c	DHW Inlet Safety Group
08e	Heating / DHW Expansion Vessel
08g	Brine Expansion Vessel
09d	Bypass Valve
09g	Diverter Valve
09h	Fill / Drain Valve
09j	Expansion Vessel Service Valve
09r	Isolation Valve
10c	Non-return Valve
10e	Y Strainer
10f	Brine Collection Tank (If applicable)
10i	Flexible Connection
10j	Magnetic Filter
11	Immersion Heater
12b	Heat Pump Interface
12K	High Limit Cut Out
12l	Cylinder Thermostat
12m	Outdoor Temperature Sensor
12p	Wireless Reciever
16	Rotary Isolator
17	Electric Meter

REV	DATE	DESCRIPTION	ZONE
D	25/08/2023	Added aroTHERM Plus 400V option	2,E
		-	-

Domestic Cold Water
Domestic Hot Water
Heating Flow
Heating Return
Glycol Flow
Glycol Return

230/400V Wire
Low Voltage Sensor Wire
Low Voltage eBUS — BUS
Low Voltage Demand Signal
eBUS +
eBUS -

Indicates Cable Junction — BUS
Indicates No. of cable cores — 3

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Drawn: A.RICE
29/08/2023 REV: D

Appliance(s): aroTHERM Plus, Heat Ex. Module, Buffer (45/100L)
Control(s): sensoCOMFORT

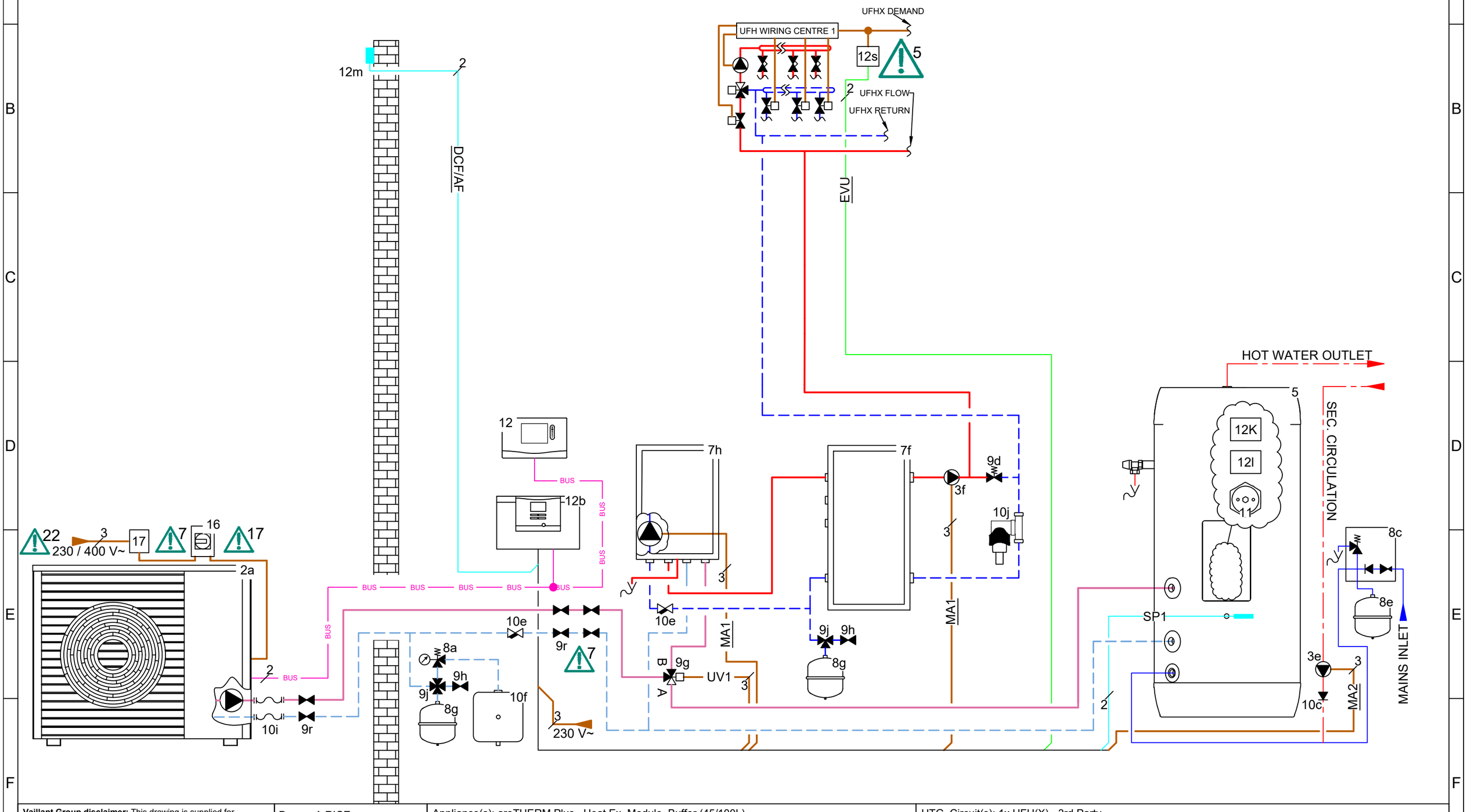
HTG. Circuit(s): 1x Radiator - Direct, ,
Domestic Hot Water: 1x Cylinder

30241-1011

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
5. Relay (not supplied by Vaillant). See page 2 for detailed wiring.
7. Optional for metering purposes.

17. Rotary Isolator must be situated outside of the Protective Zone
18. Maximum current draw of 2 Amps on MA1 terminal.
22.Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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Drawn: A.RICE

29/08/2023 REV: E

Appliance(s): aroTHERM Plus, Heat Ex. Module, Buffer (45/100L)

Control(s): senoCOMFORT VRC720

HTG. Circuit(s): 1x UFH(X) - 3rd Party, ,

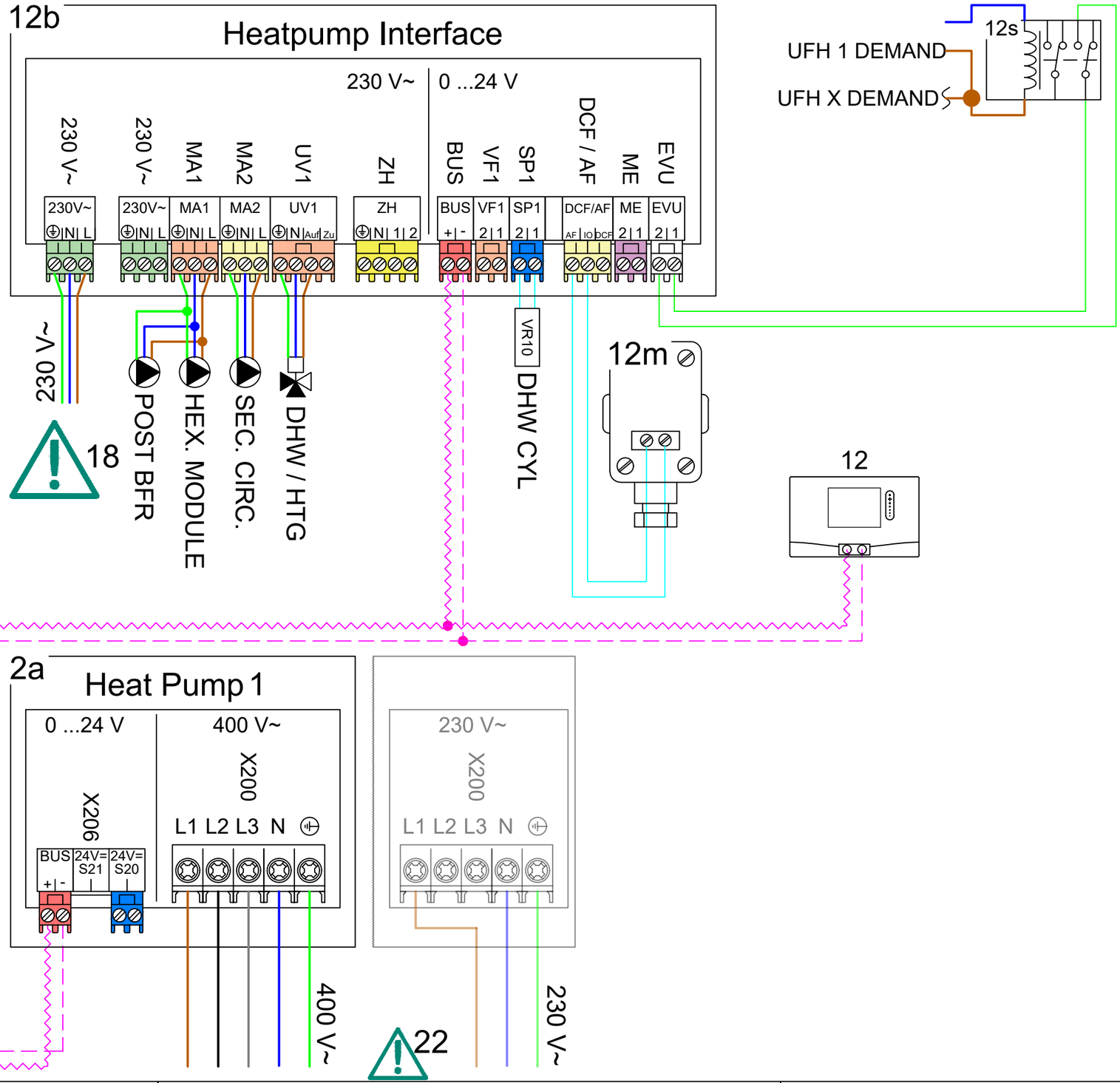
Domestic Hot Water: 1x Cylinder

30241-1011

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
5. Relay (not supplied by Vaillant). See page 2 for detailed wiring.
7. Optional for metering purposes.

17. Rotary Isolator must be situated outside of the Protective Zone
18. Maximum current draw of 2 Amps on MA1 terminal.
22.Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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Drawn: A.RICE
29/08/2023 REV: E

Appliance(s): aroTHERM Plus, Heat Ex. Module, Buffer (45/100L)
Control(s): senoCOMFORT VRC720

HTG. Circuit(s): 1x UFH(X) - 3rd Party, ,
Domestic Hot Water: 1x Cylinder

30241-1011

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sensoCOMFORT VRC720/2 System Configuration

Not all settings are displayed, commissioning of the controller should be done diligently; going through each adjustable option with consideration to the property and system requirements.

Setting	Value
Installation	
Adapt. heat curve:	Deactivated
Hybrid manager:	Bivalence pt
Heating bivalence point:	-20°
DHW bivalence point:	-20°
Alternative point:	Off
ESCO:	Heating off
Back-up boiler:	Off
Basic system diagram config.	
Basic system diagram code:	10
HP control module configuration	
MO 2:	Circulation pump
Circuit 1	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45°
Set-back mode:	Eco
Room temp. mod.:	Inactive
Zone 1	
Zone activated:	Yes
Zone assignment:	No assignmt

Setting	Value
Domestic hot water	
Cylinder:	Active
Anti-legio. day:	**User preference
Anti-legio. time:	**User preference
Cylinder charging offset:	15 K
Cyl. charg. anti-cycl. time:	5 min

Vaillant

02	aroTHERM Plus
03e	Secondary Circulation Pump
03f	General Pump
05	uniSTOR DHW Cylinder
07f	45/100L Buffer
07h	HEX. Module
08a	Pressure Relief Valve
08c	DHW Inlet Safety Group
08e	Heating / DHW Expansion Vessel
08g	Brine Expansion Vessel
09d	Bypass Valve
09g	Diverter Valve
09h	Fill / Drain Valve
09j	Expansion Vessel Service Valve
09r	Isolation Valve
10c	Non-return Valve
10e	Y Strainer
10f	Brine Collection Tank (If applicable)
10i	Flexible Connection
10j	Magnetic Filter
11	Immersion Heater
12	sensoCOMFORT
12b	Heat Pump Interface
12K	High Limit Cut Out
12l	Cylinder Thermostat
12m	Outdoor Temperature Sensor
12s	DPDT Relay (3rd Party)
16	Rotary Isolator
17	Electric Meter

REV	DATE	DESCRIPTION
E	29/08/2023	Added aroTHERM Plus 400V option

Domestic Cold Water
Domestic Hot Water
Heating Flow
Heating Return
Glycol Flow
Glycol Return

230/400V Wire
Low Voltage Sensor Wire
Low Voltage eBUS
Low Voltage Demand Signal
eBUS +
eBUS -

Indicates Cable Junction

Indicates No. of cable cores (3)

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Drawn: A.RICE
29/08/2023 REV: E

Appliance(s): aroTHERM Plus, Heat Ex. Module, Buffer (45/100L)
Control(s): senoCOMFORT VRC720

HTG. Circuit(s): 1x UFH(X) - 3rd Party, ,
Domestic Hot Water: 1x Cylinder

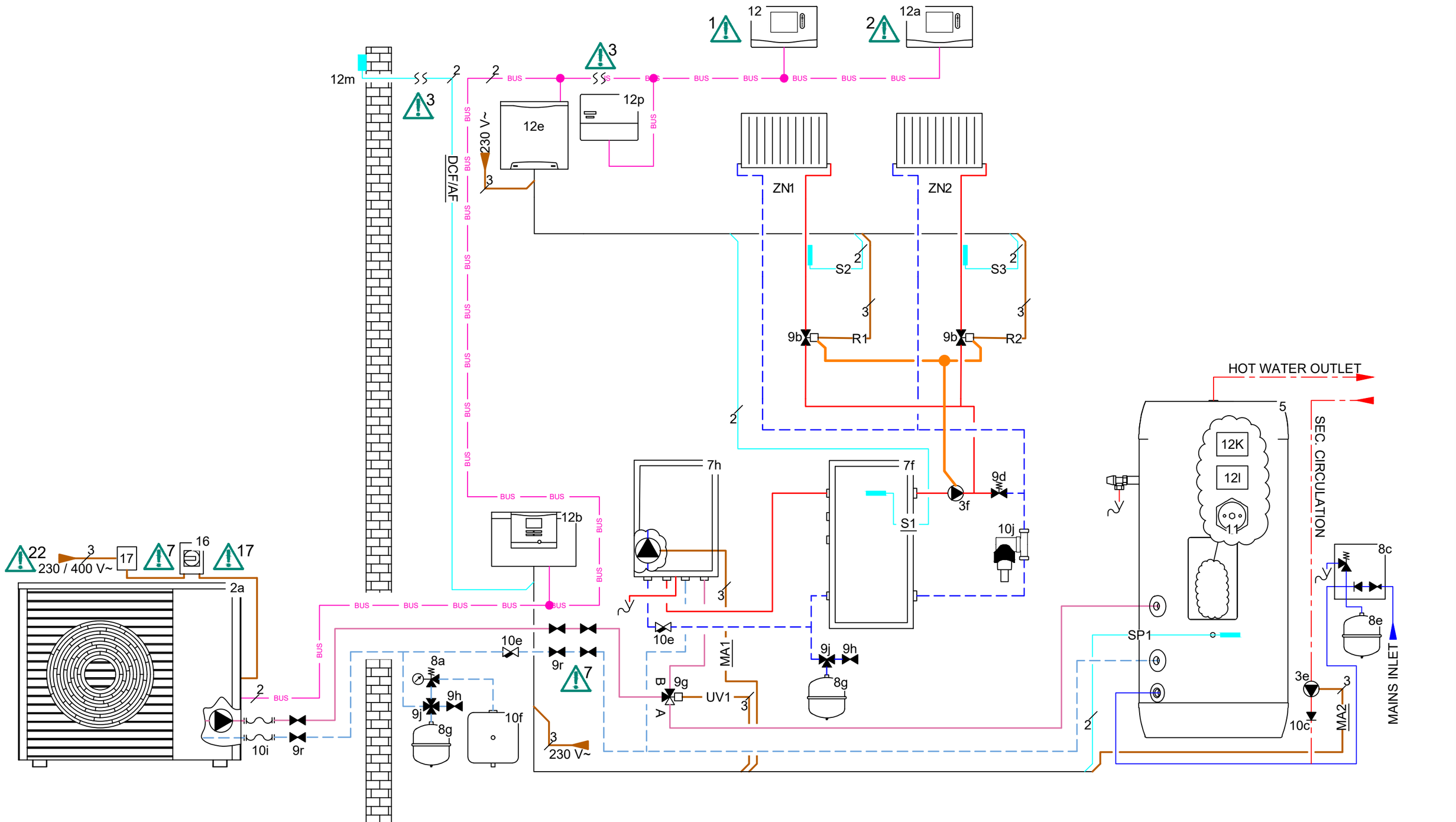
30250-1012

-See page 2 for detailed wiring.

1. See page 3 for relevant controller system configuration settings.
2. Set VR92 remote address to its zone number - 1
   eg. If VR92 is in zone 3, then remote address must be set to 2.
3. Controls and outdoor sensor can be wired or wireless

7. Optional for metering purposes.
17. Rotary Isolator must be situated outside of the Protective Zone
22. Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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Drawn: A.RICE

29/08/2023 REV: D

Appliance(s): aroTHERM Plus, Heat Ex. Module, Buffer (45/100L)

Control(s): sensoCOMFORT & VR 92

HTG. Circuit(s): 2x Radiator - Vaillant Direct, ,

Domestic Hot Water: 1x Cylinder

30250-1012

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
2. Set VR92 remote address to its zone number - 1
   eg. If VR92 is in zone 3, then remote address must be set to 2.
3. Controls and outdoor sensor can be wired or wireless

7. Optional for metering purposes.
17. Rotary Isolator must be situated outside of the Protective Zone
22. Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant

12b
Heatpump Interface
230 V~
0 ...24 V
230 V~
230V~ N L
230V~ N L
MA1 N L
MA2 N L
UV1 N Auf Zu
ZH N 1 2
BUS + -
VF1 2 1
SP1 2 1
DCF/AF AF IO DCF
ME 2 1
EVU 2 1
230 V~
HEX. MODULE
SEC. CIRC.
DHW / HTG
DHW CYL
12m
3
12e
BUFFER-TOP
ZN1 - RAD
ZN2 - RAD
1 2 S1
1 2 S2
1 2 S3
1 2 S4
1 2 S5
1 2 S6
1 2 S7
1 2 S8
1 2 S9
1 2 S10
1 2 S11
0 S12
0 S13
- + BUS
0...24V
230V~
230V~ N L
R1 N L
R2 N L
R3 N L
R4 N L
R5 N L
R6 N L
R7/R8 N 1 2
R9/R10 N 1 2
R11/R12 N 1 2
R13 N N
VR 71
230 V~
ZN1 - RAD
ZN2 - RAD
PL 230 V~
SYS.PUMP
3
12p
12
12a
2a
Heat Pump 1
0 ...24 V
400 V~
X206
X200
L1 L2 L3 N
BUS + -
24V= S21
24V= S20
400 V~
230 V~
X200
L1 L2 L3 N
230 V~
22

30250-1012

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sensoCOMFORT VRC720/2 System Configuration

Not all settings are displayed, commissioning of the controller should be done diligently; going through each adjustable option with consideration to the property and system requirements.

Setting	Value
Installation	
Adapt. heat curve:	Deactivated
Hybrid manager:	Bivalence pt
Heating bivalence point:	-20°
DHW bivalence point:	-20°
Alternative point:	Off
ESCO:	HP + BUH off
Back-up boiler:	Off
Conf. ext. input:	Bridge, deactiv.
Basic system diagram config.	
Basic system diagram code:	10
FM5 configuration:	3
FM5 MO:	Not working
HP control module configuration	
MO 2:	Circulation pump
Circuit 1	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45°
Set-back mode:	Normal
Room temp. mod.:	Expanded

Setting	Value
Circuit 2	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45°
Set-back mode:	Normal
Room temp. mod.:	Expanded
Zone 1	
Zone activated:	Yes
Zone assignment:	Control
Zone 2	
Zone activated:	Yes
Zone assignment:	Rem. contr. 1
Domestic hot water	
Cylinder:	Active
Anti-legio. day:	**User preference
Anti-legio. time:	**User preference
Cylinder charging offset:	15 K
Cyl. charg. anti-cycl. time:	5 min

Vaillant

02	aroTHERM Plus
03e	Secondary Circulation Pump
03f	General Pump
05	uniSTOR DHW Cylinder
07f	45/100L Buffer
07h	HEX. Module
08a	Pressure Relief Valve
08c	DHW Inlet Safety Group
08e	Heating / DHW Expansion Vessel
08g	Brine Expansion Vessel
09b	Zone Valve
09d	Bypass Valve
09g	Diverter Valve
09h	Fill / Drain Valve
09j	Expansion Vessel Service Valve
09r	Isolation Valve
10c	Non-return Valve
10e	Y Strainer
10f	Brine Collection Tank (If applicable)
10i	Flexible Connection
10j	Magnetic Filter
11	Immersion Heater
12b	Heat Pump Interface
12e	Wiring Centre - VR 71
12K	High Limit Cut Out
12l	Cylinder Thermostat
12m	Outdoor Temperature Sensor
12p	Wireless Reciever
16	Rotary Isolator
17	Electric Meter

REV	DATE	DESCRIPTION	ZONE
D	29/08/2023	Added aroTHERM Plus 400V option	2,E
		Updated ESCO settings	2,C

Domestic Cold Water
Domestic Hot Water
Heating Flow
Heating Return
Glycol Flow
Glycol Return

230/400V Wire
Low Voltage Sensor Wire
Low Voltage eBUS — BUS
Low Voltage Demand Signal
eBUS +
eBUS -

Indicates Cable Junction — BUS
Indicates No. of cable cores — 3

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Drawn: A.RICE
29/08/2023 REV: D

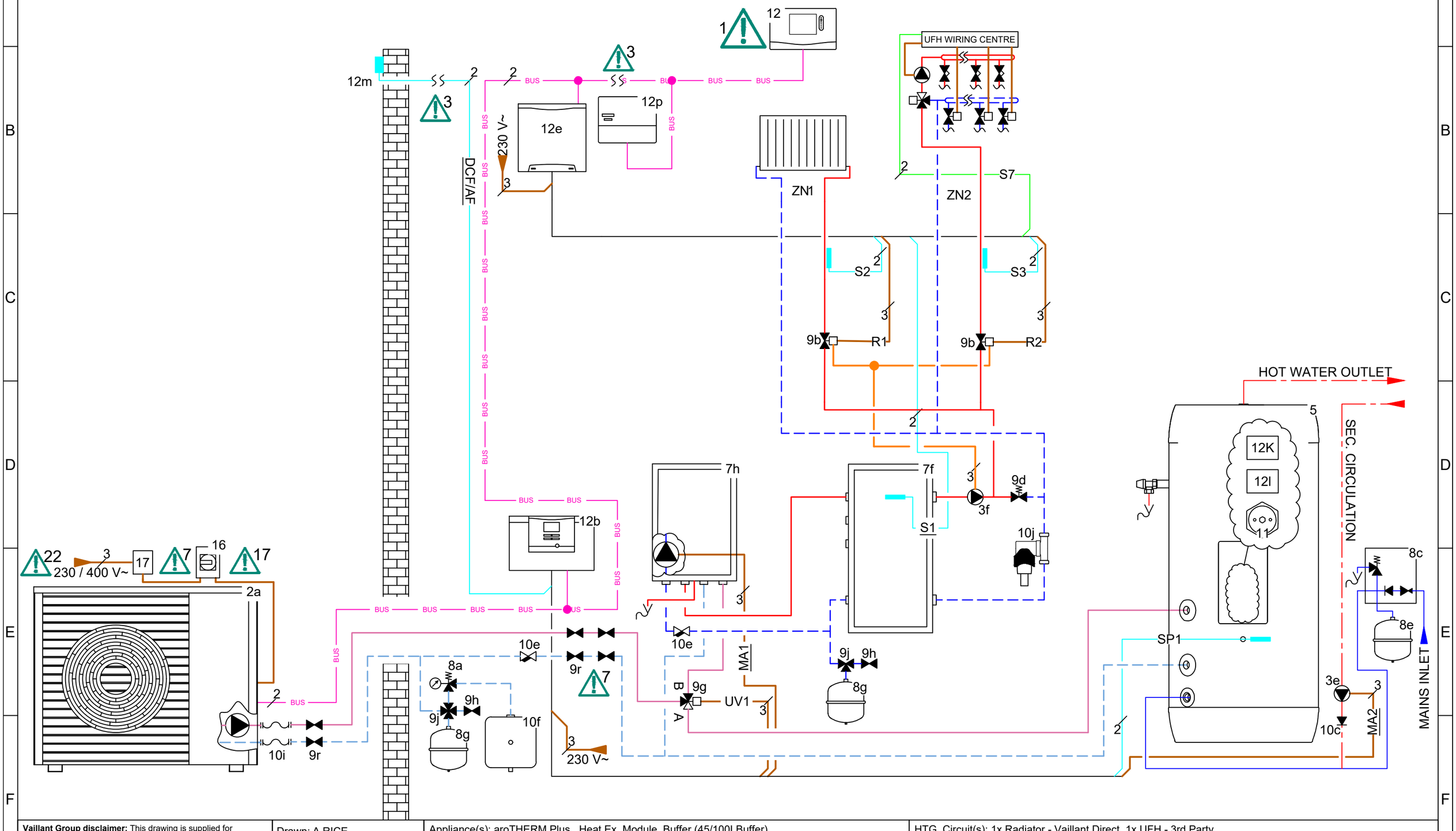
Appliance(s): aroTHERM Plus, Heat Ex. Module, Buffer (45/100L)
Control(s): sensoCOMFORT & VR 92

HTG. Circuit(s): 2x Radiator - Vaillant Direct, ,
Domestic Hot Water: 1x Cylinder

30251-1012

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
3. Controls and outdoor sensor can be wired or wireless.
4. Link required (not factory fitted).
7. Optional for metering purposes.
17. Rotary Isolator must be situated outside of the Protective Zone
22. Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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Drawn: A.RICE

29/08/2023 REV: E

Appliance(s): aroTHERM Plus, Heat Ex. Module, Buffer (45/100LBuffer)

Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Vaillant Direct, 1x UFH - 3rd Party,

Domestic Hot Water: 1x Cylinder

30251-1012

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
3. Controls and outdoor sensor can be wired or wireless.
4. Link required (not factory fitted).
7. Optional for metering purposes.
17. Rotary Isolator must be situated outside of the Protective Zone
22. Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant

12b Heatpump Interface

230 V~ | 0 ...24 V

230 V~ | 230V~ | MA1 | MA2 | UV1 | ZH | BUS | VF1 | SP1 | DCF / AF | ME | EVU

230V~ | 230V~ | MA1 | MA2 | UV1 | ZH | BUS +/- | VF1 2/1 | SP1 2/1 | DCF/AF | ME 2/1 | EVU 2/1

230 V~

HEX. MODULE

SEC. CIRC.

DHW / HTG

DHW CYL

12m

3

12e

BUFFER | ZN1 - RAD | ZN2 - UFH

UFH DEMAND

4

S1 | S2 | S3 | S4 | S5 | S6 | S7 | S8 | S9 | S10 | S11 | S12 | S13 | BUS

0...24V

230V~

230V~ | R1 | R2 | R3 | R4 | R5 | R6 | R7/R8 | R9/R10 | R11/R12 | R13

VR 71

230 V~

ZN1 - RAD

ZN2 - UFH

SYS. FLOW

PL 230 V~

3

12p

12

2a Heat Pump 1

0 ...24 V | 400 V~

X206

X200

BUS | 24V= S21 | 24V= S20

L1 L2 L3 N

400 V~

230 V~

X200

L1 L2 L3 N

230 V~

22

30251-1012

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sensoCOMFORT VRC 720/2 System Configuration

Not all settings are displayed, commissioning of the controller should be done diligently; going through each adjustable option with consideration to the property and system requirements.

Setting	Value
Installation	
Adapt. heat curve:	Deactivated
Hybrid manager:	Bivalence pt
Heating bivalence point:	-20°
DHW bivalence point:	-20°
Alternative point:	Off
ESCO:	HP + BUH Off
Back-up boiler:	Off
Conf. ext. input:	Open, deactiv.
Basic system diagram config.	
Basic system diagram code:	10
FM5 configuration:	3
FM5 MO:	Not working
HP control module configuration	
MO 2:	Circulation pump
Circuit 1	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45° (Assumed)
Set-back mode:	Normal
Room temp. mod.:	Expanded

Setting	Value
Circuit 2	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45° (Assumed)
Set-back mode:	Eco
Room temp. mod.:	Inactive
Zone 1	
Zone activated:	Yes
Zone assignment:	Control
Zone 2	
Zone activated:	Yes
Zone assignment:	No assignmt
Domestic hot water	
Cylinder:	Active
Anti-legio. day:	**User preference
Anti-legio. time:	**User preference
Cylinder charging offset:	15 K
Cyl. charg. anti-cycl. time:	5 min

02	aroTHERM Plus
03e	Secondary Circulation Pump
03f	General Pump
05	uniSTOR DHW Cylinder
07f	45/100L Buffer
07h	HEX. Module
08a	Pressure Relief Valve
08c	DHW Inlet Safety Group
08e	Heating / DHW Expansion Vessel
08g	Brine Expansion Vessel
09b	Zone Valve
09d	Bypass Valve
09g	Diverter Valve
09h	Fill / Drain Valve
09j	Expansion Vessel Service Valve
09r	Isolation Valve
10c	Non-return Valve
10e	Y Strainer
10f	Brine Collection Tank
10i	Flexible Connection
10j	Magnetic Filter
11	Immersion Heater
12b	Heat Pump Interface
12e	Wiring Centre - VR 71
12K	High Limit Cut Out
12l	Cylinder Thermostat
12m	Outdoor Temperature Sensor
12p	Wireless Reciever
16	Rotary Isolator
17	Electric Meter

REV	DATE	DESCRIPTION	ZONE
E	29/08/2023	Added aroTHERM Plus 400V Option	2,E
		ESCO set to default setting HP + BUH off	2,C

Domestic Cold Water
Domestic Hot Water
Heating Flow
Heating Return
Glycol Flow
Glycol Return

230/400V Wire
Low Voltage Sensor Wire
Low Voltage eBUS
Low Voltage Demand Signal
eBUS +
eBUS -

Indicates Cable Junction

Indicates No. of cable cores

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Drawn: A.RICE
29/08/2023 REV: E

Appliance(s): aroTHERM Plus, Heat Ex. Module, Buffer (45/100LBuffer)
Control(s): sensoCOMFORT

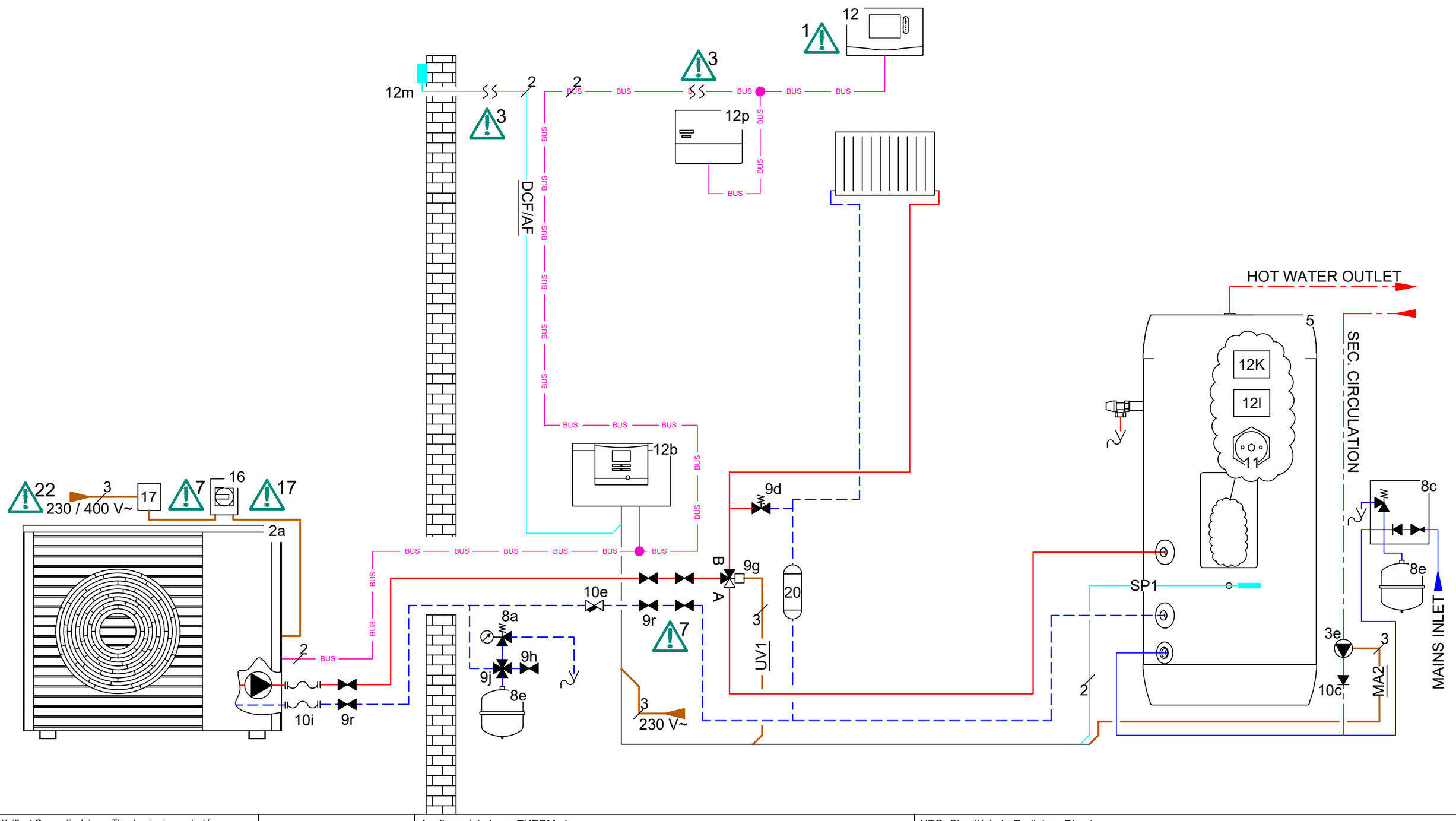
HTG. Circuit(s): 1x Radiator - Vaillant Direct, 1x UFH - 3rd Party,
Domestic Hot Water: 1x Cylinder

30260-1011

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
3. Controls and outdoor sensor can be wired or wireless
7. Optional for metering purposes.

17. Rotary Isolator must be situated outside of the Protective Zone
22.Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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Drawn: A.RICE

19/09/2023 REV: I

Appliance(s): 1x aroTHERM plus,

Control(s): 1x sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Direct, ,

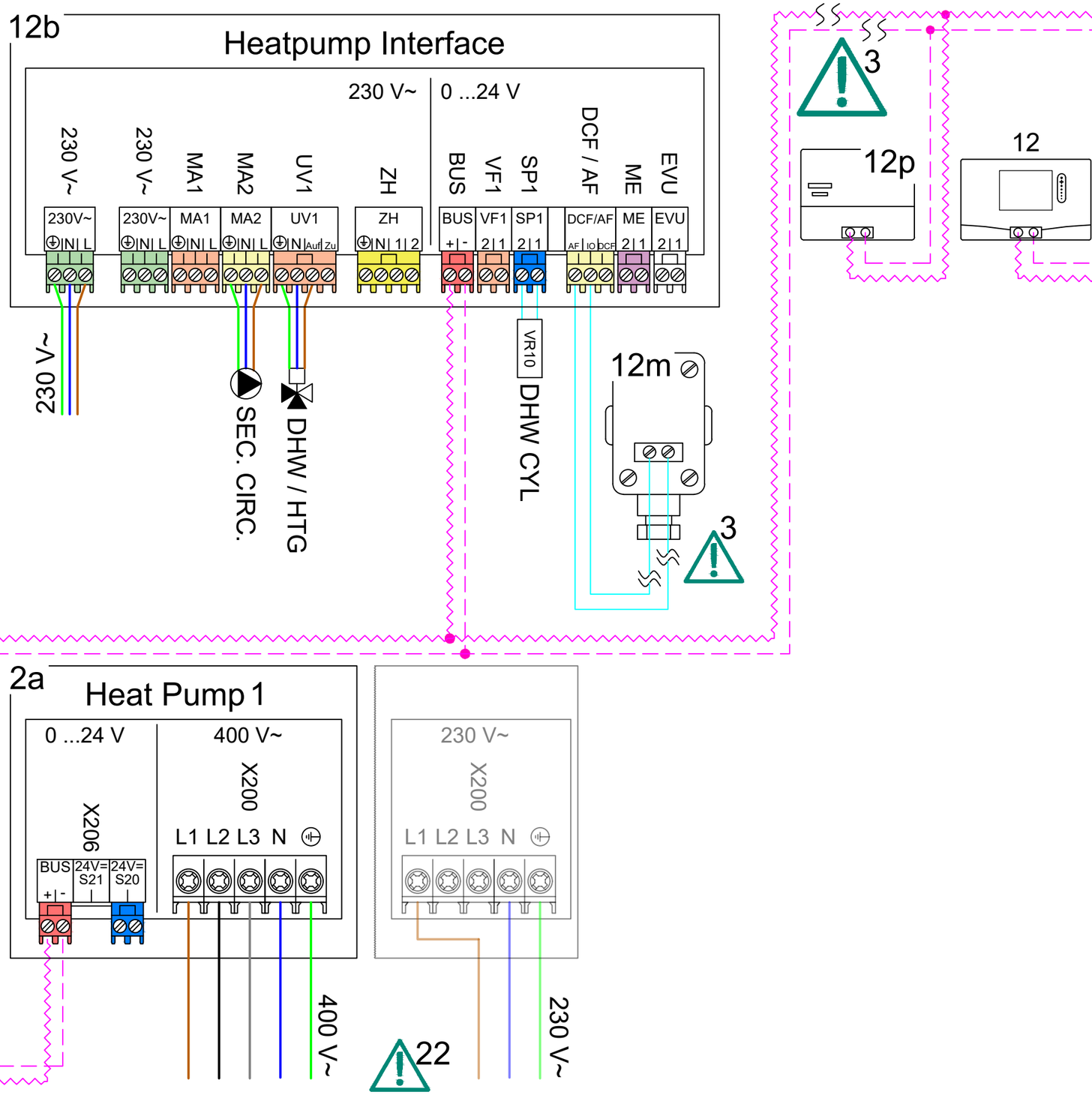
Domestic Hot Water: 1x Cylinder

30260-1011

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
3. Controls and outdoor sensor can be wired or wireless
7. Optional for metering purposes.

17. Rotary Isolator must be situated outside of the Protective Zone
22.Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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Drawn: A.RICE
19/09/2023 REV: I

Appliance(s): 1x aroTHERM plus,
Control(s): 1x sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Direct, ,
Domestic Hot Water: 1x Cylinder

30260-1011

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sensoCOMFORT VRC 720/2 System Configuration

Not all settings are displayed, commissioning of the controller should be done diligently; going through each adjustable option with consideration to the property and system requirements.

Setting	Value
Installation	
Adapt. heat curve:	Deactivated
Hybrid manager:	Bivalence pt
Heating bivalence point:	-20°
DHW bivalence point:	-20°
Alternative point:	Off
ESCO:	HP + BUH Off
Back-up boiler:	Off
Basic system diagram config.	
Basic system diagram code:	8
HP control module configuration	
MO 2:	Circulation pump
Circuit 1	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45°
Set-back mode:	Normal
Room temp. mod.:	Expanded
Zone 1	
Zone activated:	Yes
Zone assignment:	Control
Domestic hot water	
Cylinder:	Active
Anti-legio. day:	**User preference
Anti-legio. time:	**User preference
Cylinder charging offset:	15 K
Cyl. charg. anti-cycl. time:	5 min

Vaillant

02	aroTHERM plus
03e	Secondary Circulation Pump
05	uniSTOR DHW Cylinder
08a	Pressure Relief Valve
08c	DHW Inlet Safety Group
08e	Heating / DHW Expansion Vessel
09d	Bypass Valve
09g	Diverter Valve
09h	Fill / Drain Valve
09j	Expansion Vessel Service Valve
09r	Isolation Valve
10c	Non-return Valve
10e	Y Strainer
10i	Flexible Connection
11	Immersion Heater
12	sensoCOMFORT
12b	Heat Pump Interface
12K	High Limit Cut Out
12l	Cylinder Thermostat
12m	Outdoor Temperature Sensor
12p	Wireless Reciever
16	Rotary Isolator
17	Electric Meter
20	Volumiser

REV	DATE	DESCRIPTION
I	19/09/2023	Added aroTHERM plus 400V option

Domestic Cold Water
Domestic Hot Water
Heating Flow
Heating Return
Glycol Flow
Glycol Return

230/400V Wire
Low Voltage Sensor Wire
Low Voltage eBUS
Low Voltage Demand Signal
eBUS +
eBUS -

Indicates Cable Junction

Indicates No. of cable cores

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Drawn: A.RICE
19/09/2023 REV: I

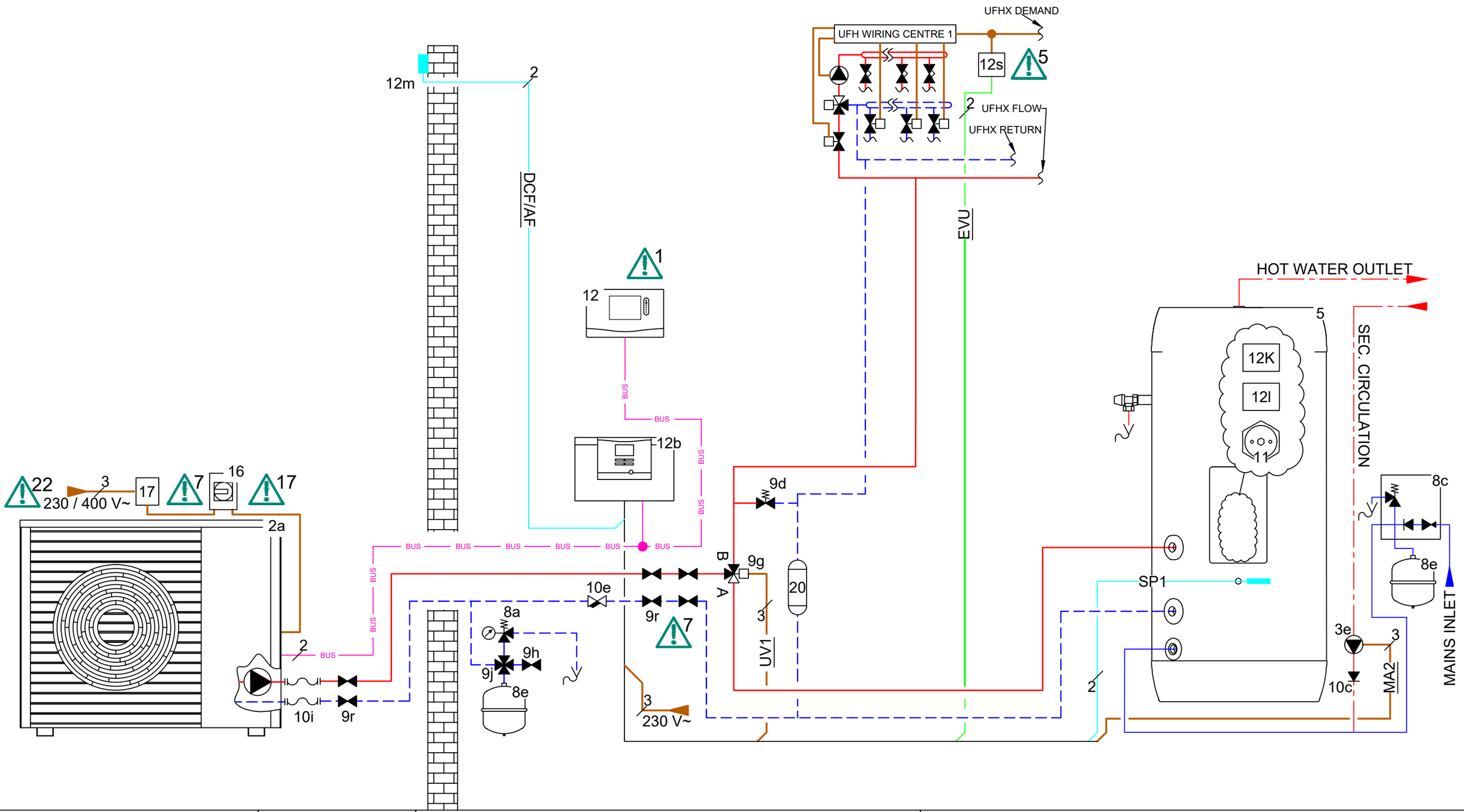
Appliance(s): 1x aroTHERM plus,
Control(s): 1x sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Direct, ,
Domestic Hot Water: 1x Cylinder

30261-1011

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
5. DPDT Relay (not supplied by Vaillant). See page 2 for detailed wiring.
7. Optional for metering purposes.

17. Rotary Isolator must be situated outside of the Protective Zone
22.Electrical supply voltage depending on the installation and appliance: 230 V, 400 V



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Drawn: A.RICE
19/09/2023 REV: H

Appliance(s): aroTHERM plus, ----
Control(s): sensoCOMFORT VRC 720

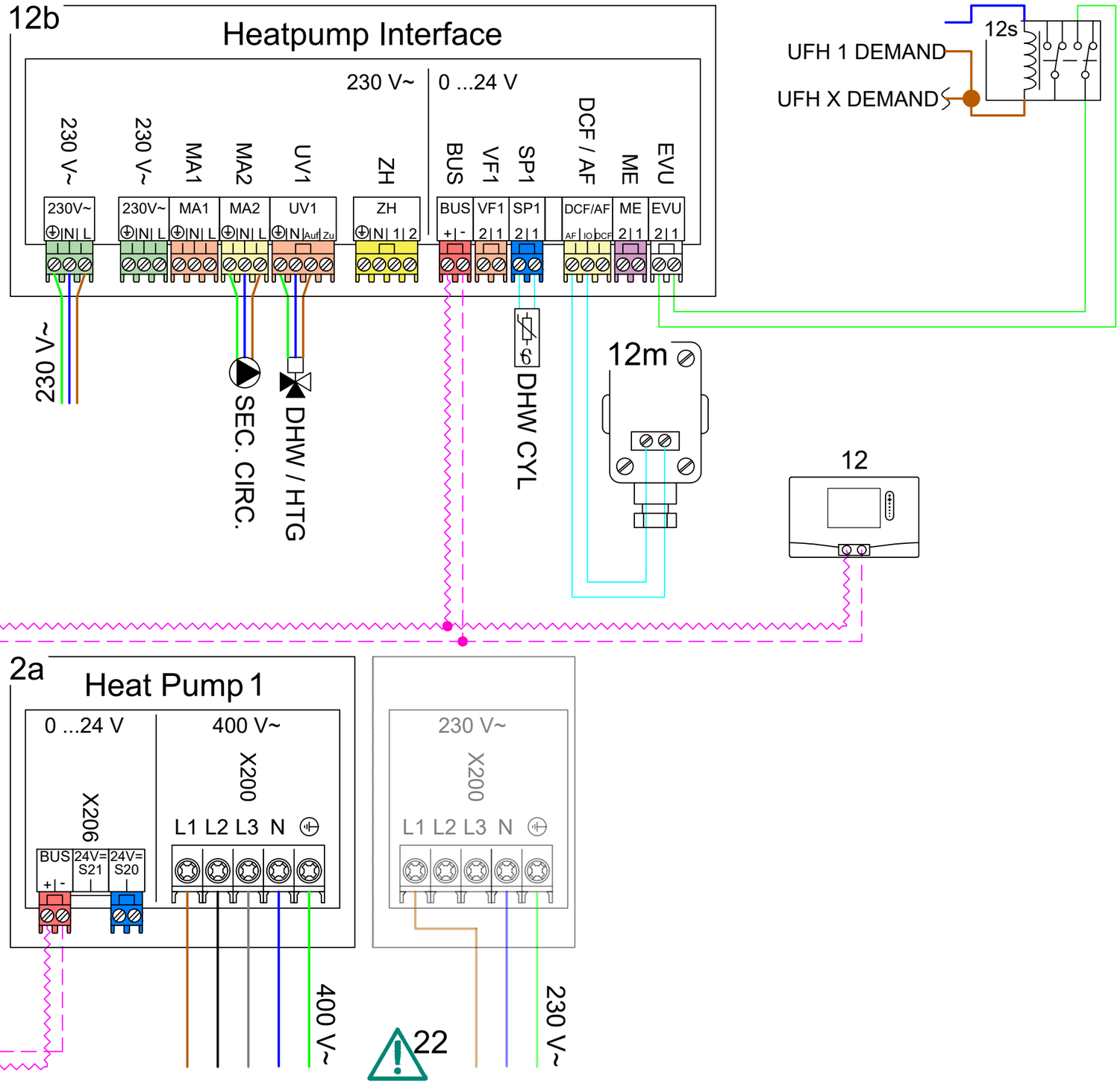
HTG. Circuit(s): 1x UFH(X) - 3rd Party, ,
Domestic Hot Water: 1x Cylinder

30261-1011

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
5. DPDT Relay (not supplied by Vaillant). See page 2 for detailed wiring.
7. Optional for metering purposes.

17. Rotary Isolator must be situated outside of the Protective Zone
22.Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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Drawn: A.RICE

19/09/2023 REV: H

Appliance(s): aroTHERM plus, ----

Control(s): sensoCOMFORT VRC 720

HTG. Circuit(s): 1x UFH(X) - 3rd Party, ,

Domestic Hot Water: 1x Cylinder

30261-1011

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sensoCOMFORT VRC 720/2 System Configuration

Not all settings are displayed, commissioning of the controller should be done diligently; going through each adjustable option with consideration to the property and system requirements.

Setting	Value
Installation	
Adapt. heat curve:	Deactivated
Hybrid manager:	Bivalence pt
Heating bivalence point:	-20°
DHW bivalence point:	-20°
Alternative point:	Off
ESCO:	Heating off
Back-up boiler:	Off
Basic system diagram config.	
Basic system diagram code:	8
HP control module configuration	
MO 2:	Circulation pump
Circuit 1	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45°
Set-back mode:	Eco
Room temp. mod.:	Inactive

Setting	Value
Zone 1	
Zone activated:	Yes
Zone assignment:	No assignmt
DHW circuit	
Cylinder	active
Anti-legionella day	**User preference
Anti-legionella time	**User preference
Cylinder boost offset	15 K
DHW req. anti-cy time	5 min

02	aroTHERM plus
03e	Secondary Circulation Pump
05	uniSTOR DHW Cylinder
08a	Pressure Relief Valve
08c	DHW Inlet Safety Group
08e	Heating / DHW Expansion Vessel
09d	Bypass Valve
09g	Diverter Valve
09h	Fill / Drain Valve
09j	Expansion Vessel Service Valve
09r	Isolation Valve
10c	Non-return Valve
10e	Y Strainer
10i	Flexible Connection
11	Immersion Heater
12	sensoCOMFORT
12b	Heat Pump Interface
12K	High Limit Cut Out
12l	Cylinder Thermostat
12m	Outdoor Temperature Sensor
16	Rotary Isolator
17	Electric Meter
20	Volumiser

REV	DATE	DESCRIPTION
H	19/09/2023	Updated settings Added aroTHERM plus 400V option

Domestic Cold Water
Domestic Hot Water
Heating Flow
Heating Return
Glycol Flow
Glycol Return

230/400V Wire
Low Voltage Sensor Wire
Low Voltage eBUS — BUS
Low Voltage Demand Signal
eBUS +
eBUS -

Indicates Cable Junction — BUS
Indicates No. of cable cores — 3

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Drawn: A.RICE
19/09/2023 REV: H

Appliance(s): aroTHERM plus, ----
Control(s): sensoCOMFORT VRC 720

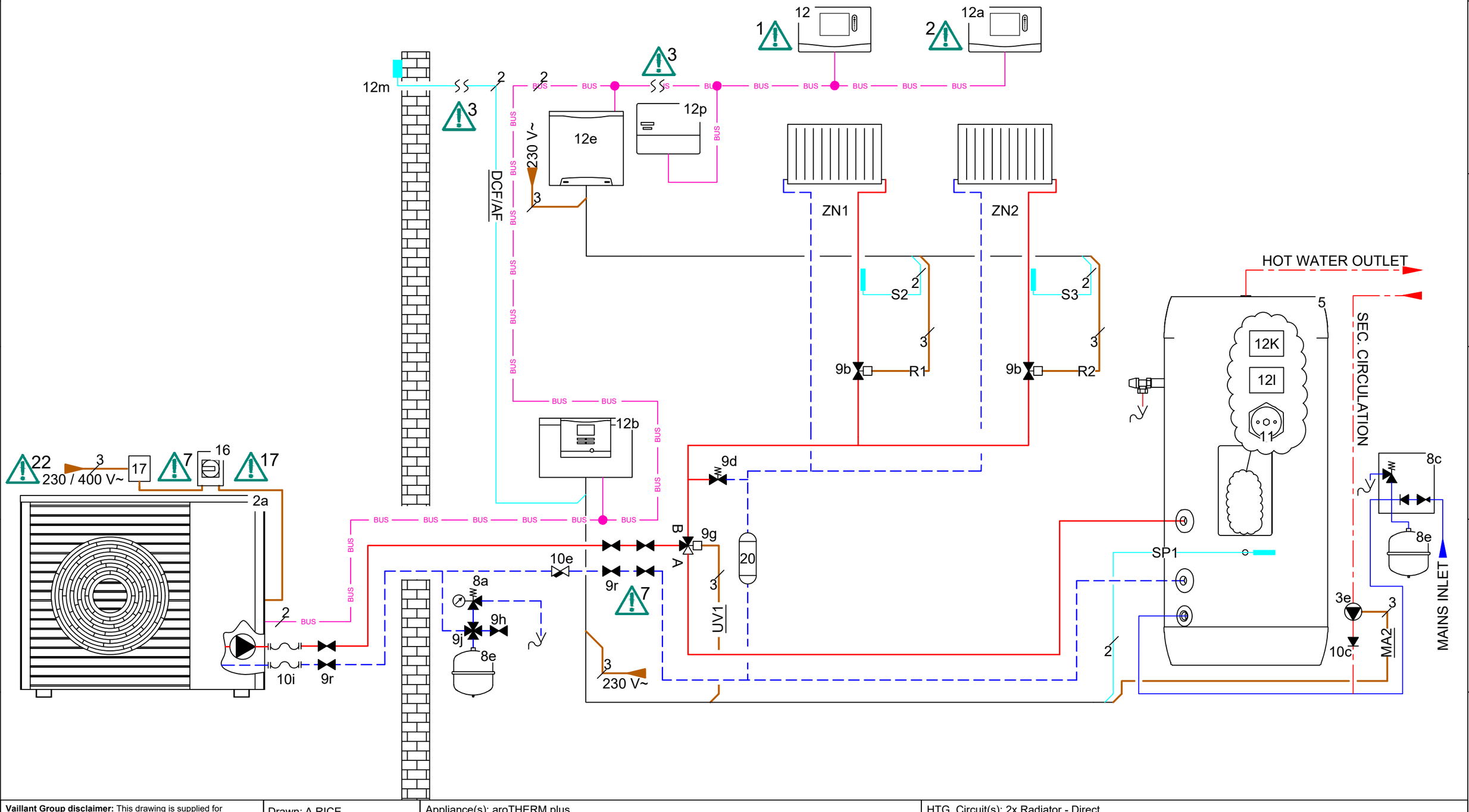
HTG. Circuit(s): 1x UFH(X) - 3rd Party, ,
Domestic Hot Water: 1x Cylinder

30270-1012-

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
2. Set VR92 remote address to its zone number - 1
eg. If VR92 is in zone 3, then remote address must be set to 2.

3. Controls and outdoor sensor can be wired or wireless.
7. Optional for metering purposes
17. Rotary Isolator must be situated outside of the Protective Zone
22.Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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Drawn: A.RICE
19/09/2023 REV: F

Appliance(s): aroTHERM plus,
Control(s): sensoCOMFORT, VR 92

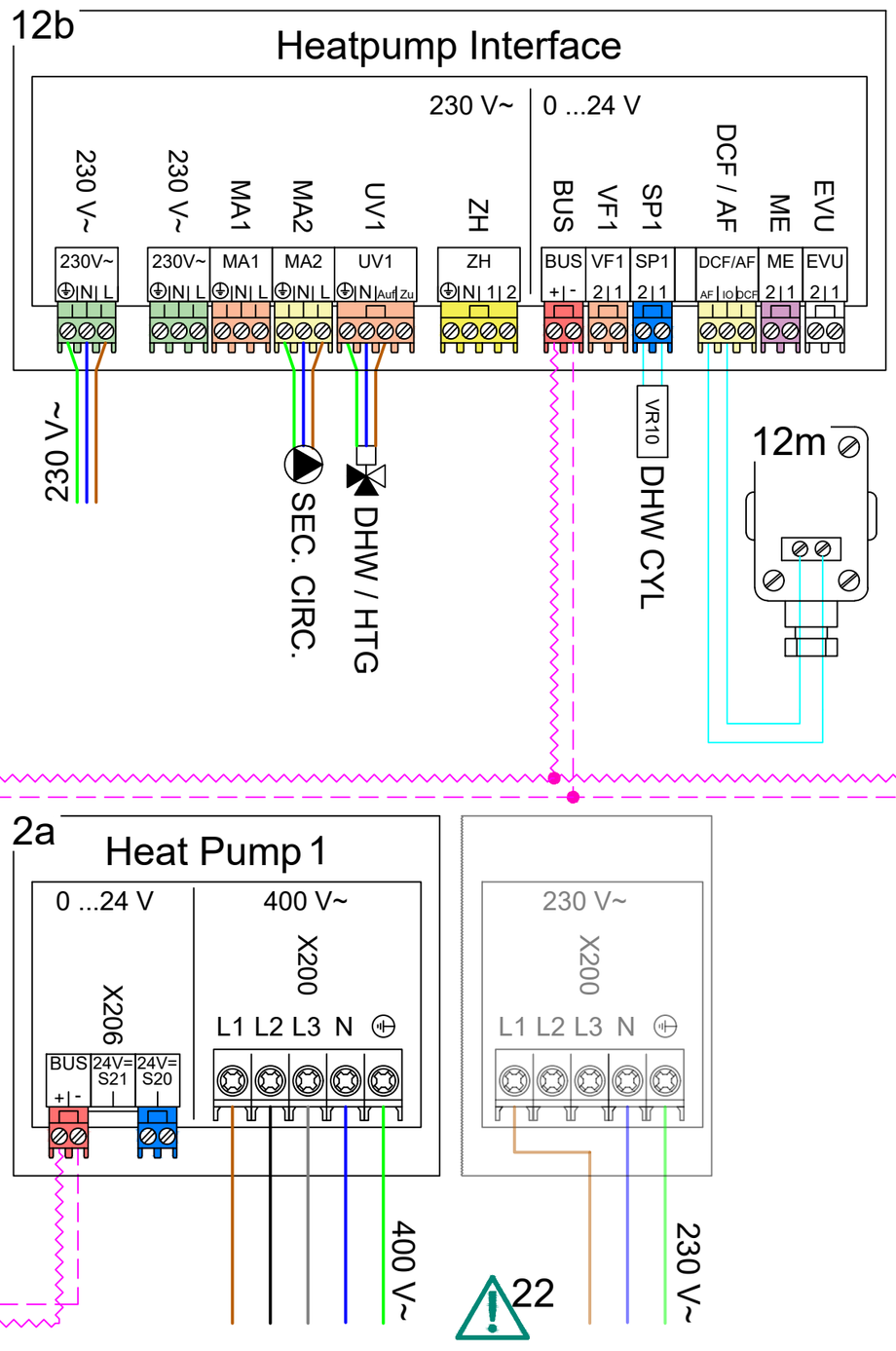
HTG. Circuit(s): 2x Radiator - Direct, ,
Domestic Hot Water: 1x Cylinder

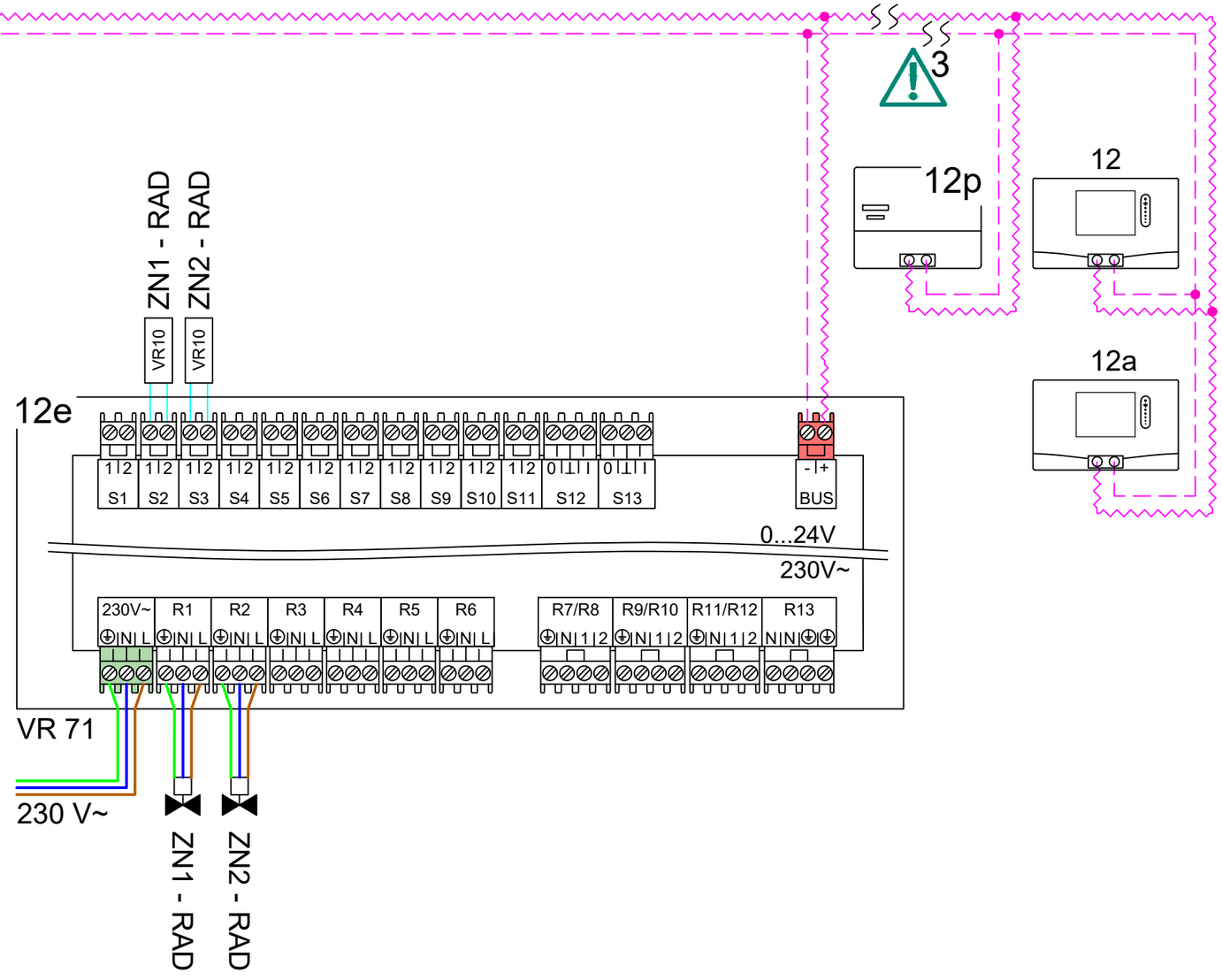
30270-1012-

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
2. Set VR92 remote address to its zone number - 1
eg. If VR92 is in zone 3, then remote address must be set to 2.

3. Controls and outdoor sensor can be wired or wireless.
7. Optional for metering purposes
17. Rotary Isolator must be situated outside of the Protective Zone
22.Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant





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Drawn: A.RICE
19/09/2023 REV: F

Appliance(s): aroTHERM plus,
Control(s): sensoCOMFORT, VR 92

HTG. Circuit(s): 2x Radiator - Direct, ,
Domestic Hot Water: 1x Cylinder

30270-1012-

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sensoCOMFORT VRC 720/2 System Configuration

Not all settings are displayed, commissioning of the controller should be done diligently; going through each adjustable option with consideration to the property and system requirements.

Setting	Value
Installation	
Adapt. heat curve:	Deactivated
Hybrid manager:	Bivalence pt
Heating bivalence point:	-20°
DHW bivalence point:	-20°
Alternative point:	Off
ESCO:	HP + BUH Off
Back-up boiler:	Off
Conf. ext. input:	Bridge, deactiv.
Basic system diagram config.	
Basic system diagram code:	8
FM5 configuration:	3
FM5 MO:	Not working
HP control module configuration	
MO 2:	Circulation pump
Circuit 1	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45°
Set-back mode:	Normal
Room temp. mod.:	Expanded

Setting	Value
Circuit 2	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45°
Set-back mode:	Normal
Room temp. mod.:	Expanded
Zone 1	
Zone activated:	Yes
Zone assignment:	Control
Zone 2	
Zone activated:	Yes
Zone assignment:	Rem. contr. 1
Domestic hot water	
Cylinder:	Active
Anti-legio. day:	**User preference
Anti-legio. time:	**User preference
Cylinder charging offset:	15 K
Cyl. charg. anti-cycl. time:	5 min

Vaillant

02	aroTHERM plus
03e	Secondary Circulation Pump
05	uniSTOR DHW Cylinder
08a	Pressure Relief Valve
08c	DHW Inlet Safety Group
08e	Heating / DHW Expansion Vessel
09b	Zone Valve
09d	Bypass Valve
09g	Diverter Valve
09h	Fill / Drain Valve
09j	Expansion Vessel Service Valve
09r	Isolation Valve
10c	Non-return Valve
10e	Y Strainer
10i	Flexible Connection
11	Immersion Heater
12	sensoCOMFORT
12a	VR92
12b	Heat Pump Interface
12e	Wiring Centre - VR 71
12K	High Limit Cut Out
12l	Cylinder Thermostat
12m	Outdoor Temperature Sensor
12p	Wireless Reciever
16	Rotary Isolator
17	Electric Meter
20	System Volumiser

REV	DATE	DESCRIPTION	ZONE
F	19/09/2023	Added aroTHERM plus 400V option	2,E
		Updated settings	-

Domestic Cold Water
Domestic Hot Water
Heating Flow
Heating Return
Glycol Flow
Glycol Return

230/400V Wire
Low Voltage Sensor Wire
Low Voltage eBUS
Low Voltage Demand Signal
eBUS +
eBUS -

Indicates Cable Junction

Indicates No. of cable cores

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Drawn: A.RICE
19/09/2023 REV: F

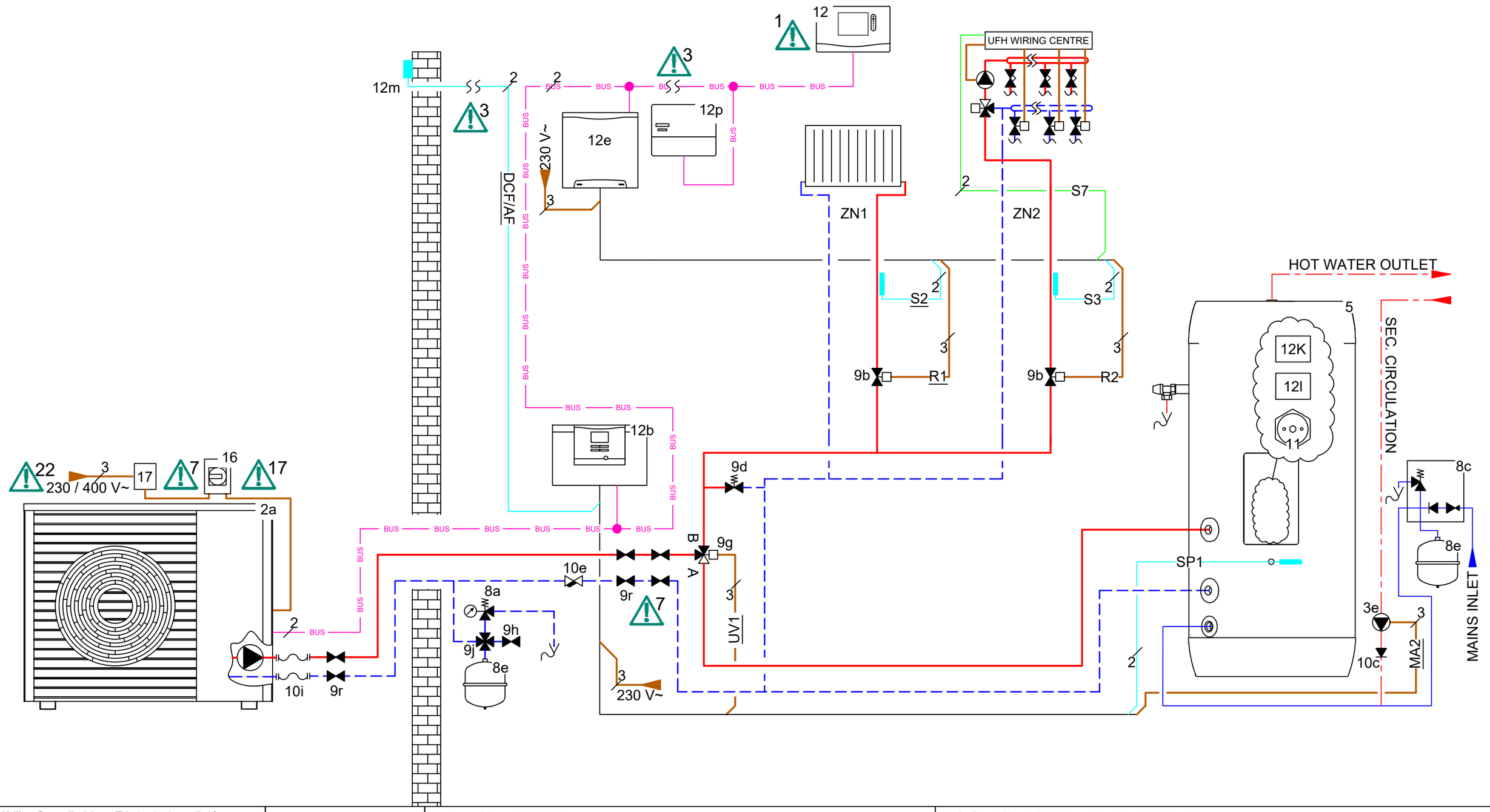
Appliance(s): aroTHERM plus,
Control(s): sensoCOMFORT, VR 92

HTG. Circuit(s): 2x Radiator - Direct, ,
Domestic Hot Water: 1x Cylinder

30271-1012

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
3. Controls and outdoor sensor can be wired or wireless
4. Link required (not factory fitted).
7. Optional for metering purposes.
17. Rotary Isolator must be situated outside of the Protective Zone
22. Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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Drawn: A.RICE

19/09/2023 REV: I

Appliance(s): aroTHERM plus,

Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Direct, 1x UFH - 3rd Party,

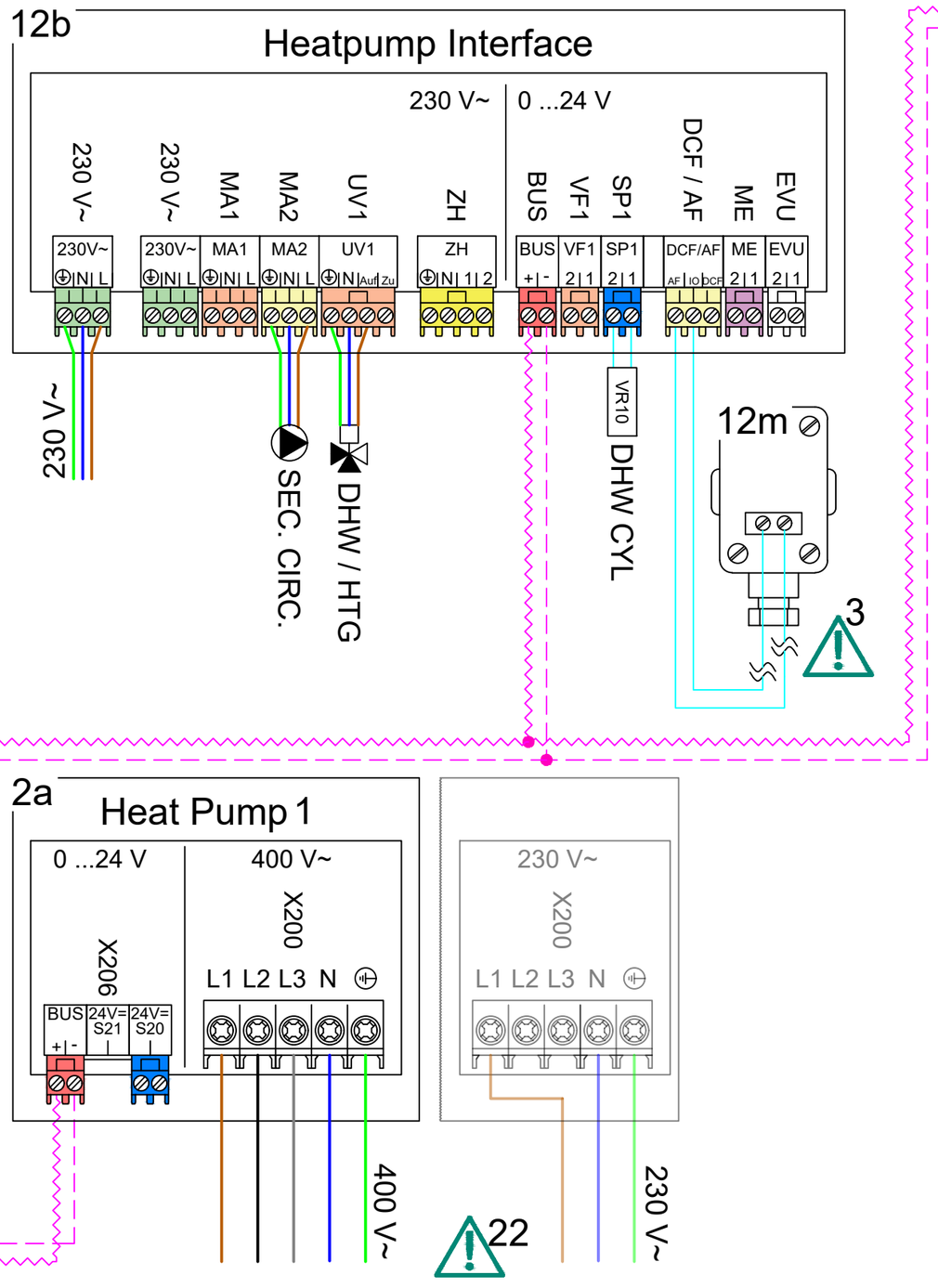
Domestic Hot Water: 1x Cylinder

30271-1012

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
3. Controls and outdoor sensor can be wired or wireless
4. Link required (not factory fitted).

7. Optional for metering purposes.
17. Rotary Isolator must be situated outside of the Protective Zone
22. Electrical supply voltage depending on the installation and appliance: 230 V, 400 V

Vaillant



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Drawn: A.RICE
19/09/2023 REV: I

Appliance(s): aroTHERM plus,
Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Direct, 1x UFH - 3rd Party,
Domestic Hot Water: 1x Cylinder

30271-1012

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sensoCOMFORT VRC 720/2 System Configuration

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Setting	Value
Installation	
Adapt. heat curve:	Deactivated
Hybrid manager:	Bivalence pt
Heating bivalence point:	-20°
DHW bivalence point:	-20°
Alternative point:	Off
ESCO:	HP + BUH off
Back-up boiler:	Off
Conf. ext. input:	Open, deactiv.
Basic system diagram config.	
Basic system diagram code:	8
FM5 configuration:	3
FM5 MO:	Not working
HP control module configuration	
MO 2:	Circulation pump
Circuit 1	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45° (Assumed)
Set-back mode:	Normal
Room temp. mod.:	Expanded

Setting	Value
Circuit 2	
Circuit type:	Heating
OT switch-off threshold:	30°
Heat curve:	**Site specific
Min. target flow temperature:	15°
Max. target flow temperature:	45° (Assumed)
Set-back mode:	Eco
Room temp. mod.:	Inactive
Zone 1	
Zone activated:	Yes
Zone assignment:	Control
Zone 2	
Zone activated:	Yes
Zone assignment:	No assignmt
Domestic hot water	
Cylinder:	Active
Anti-legio. day:	**User preference
Anti-legio. time:	**User preference
Cylinder charging offset:	15 K
Cyl. charg. anti-cycl. time:	5 min

02	aroTHERM plus
03e	Secondary Circulation Pump
05	uniSTOR DHW Cylinder
08a	Pressure Relief Valve
08c	DHW Inlet Safety Group
08e	Heating / DHW Expansion Vessel
09b	Zone Valve
09d	Bypass Valve
09g	Diverter Valve
09h	Fill / Drain Valve
09j	Expansion Vessel Service Valve
09r	Isolation Valve
10c	Non-return Valve
10e	Y Strainer
10i	Flexible Connection
11	Immersion Heater
12	sensoCOMFORT
12b	Heat Pump Interface
12e	Wiring Centre - VR 71
12K	High Limit Cut Out
12l	Cylinder Thermostat
12m	Outdoor Temperature Sensor
12p	Wireless Reciever
16	Rotary Isolator
17	Electric Meter

REV	DATE	DESCRIPTION	ZONE
I	19/09/2023	Added aroTHERM plus 400V option	2,E

Domestic Cold Water
Domestic Hot Water
Heating Flow
Heating Return
Glycol Flow
Glycol Return

230/400V Wire
Low Voltage Sensor Wire
Low Voltage eBUS
Low Voltage Demand Signal
eBUS +
eBUS -

Indicates Cable Junction

Indicates No. of cable cores

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Drawn: A.RICE
19/09/2023 REV: I

Appliance(s): aroTHERM plus,
Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Direct, 1x UFH - 3rd Party,
Domestic Hot Water: 1x Cylinder

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