System schematics for aroTHERM plus

Contents

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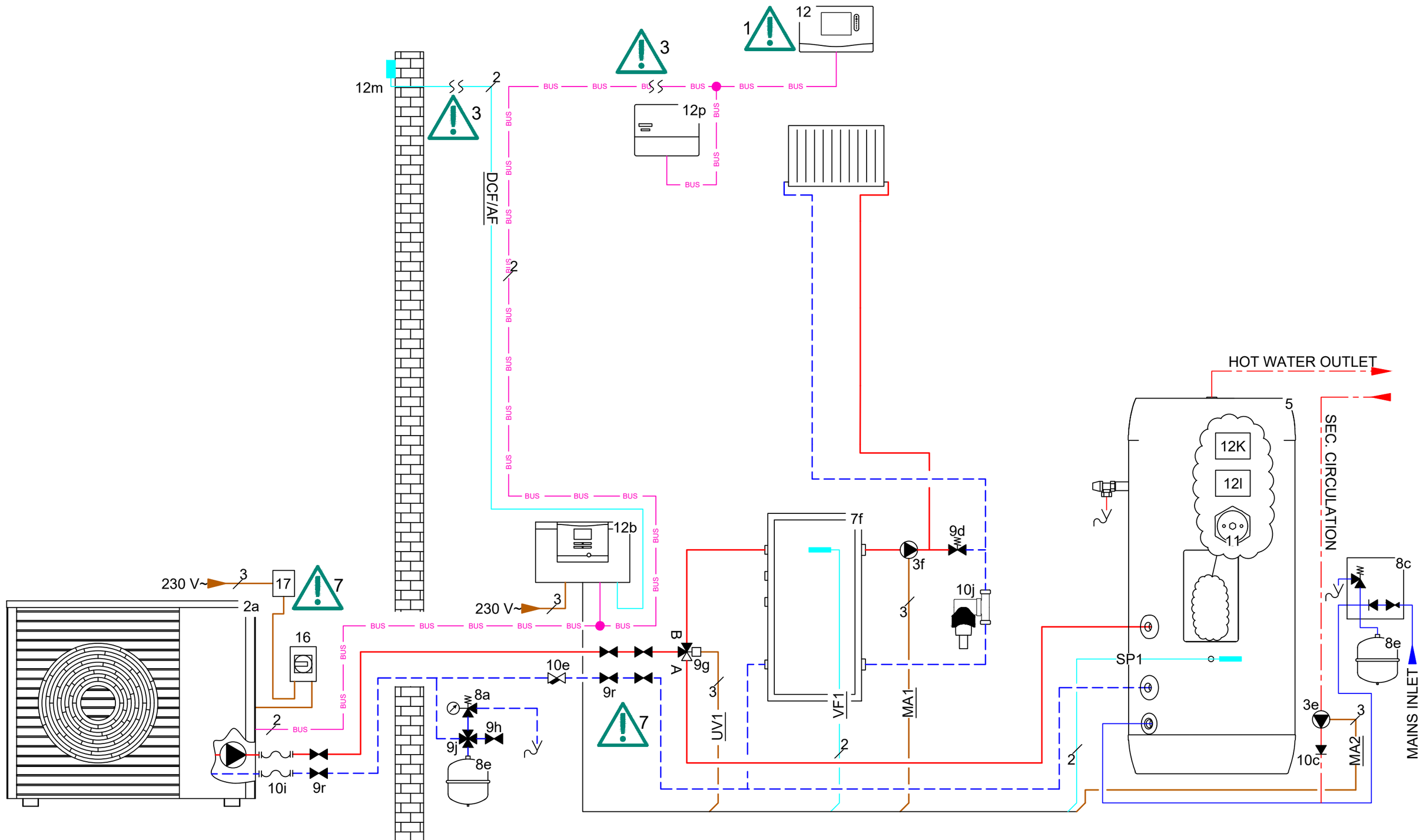
-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
3. Controls and outdoor sensor can be wired or wireless
7. For meter ready requirements (RHI)



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Drawn: A. WILLIS

15/06/2020 REV: A

Appliance(s): aroTHERM Mono, Buffer (40L Decoupler)

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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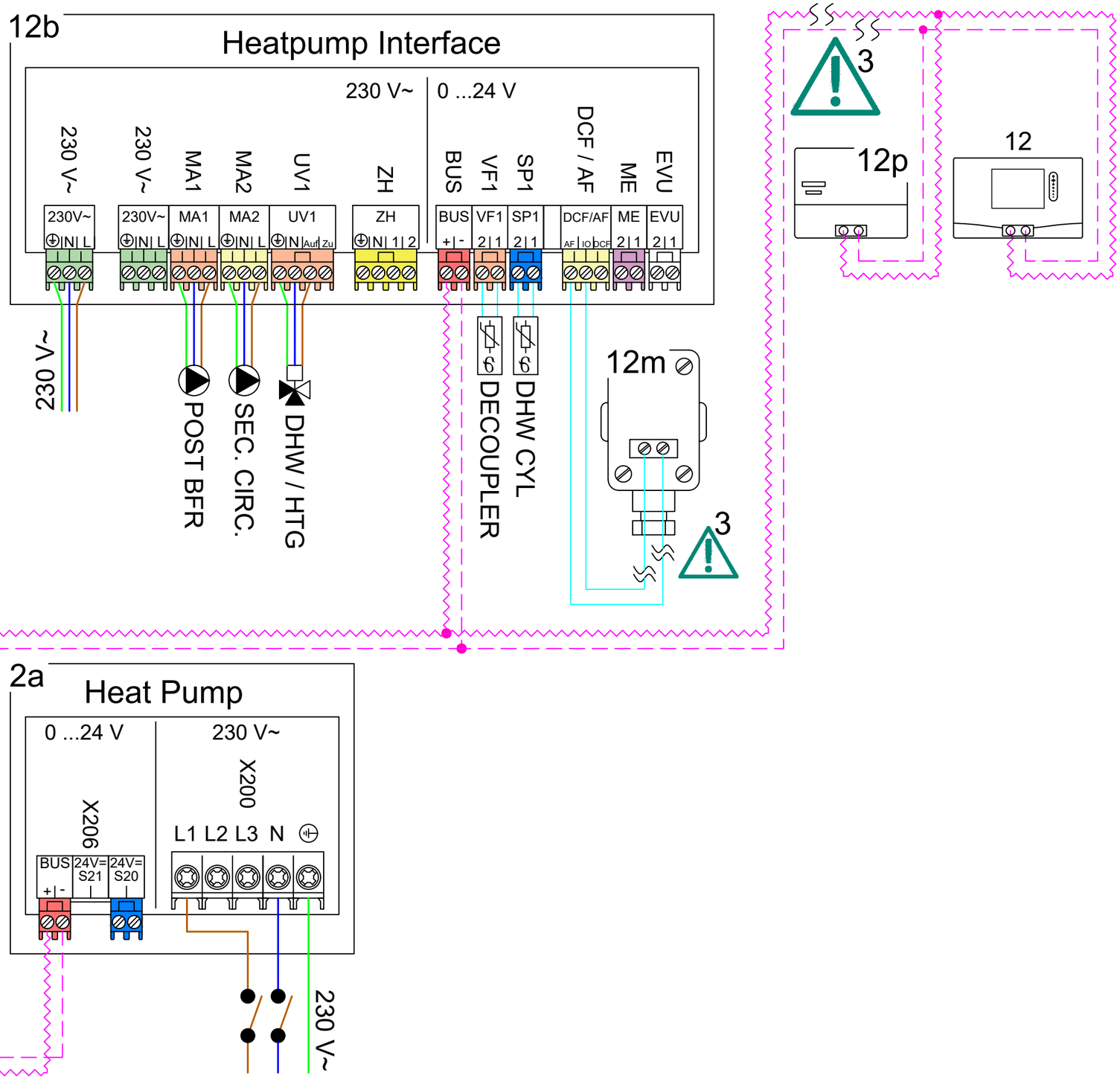

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Drawn: A. WILLIS

15/06/2020 REV: A

Appliance(s): aroTHERM Mono, Buffer (40L Decoupler)

Control(s): sensoCOMFORT

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

Domestic Hot Water: 1x Cylinder

30110-1011

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sensoCOMFORT / VRC 700 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
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
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

02	aroTHERM Monoblock
03e	Secondary Circulation Pump
03f	General Pump
05	uniSTOR DHW Cylinder
07f	40L Decoupler
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	ZONE
A	15/06/2020	Electric Meter & rotary isolation added to outdoor module.	2,E
		Immersion removed, secondary circulation pump added.	8,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

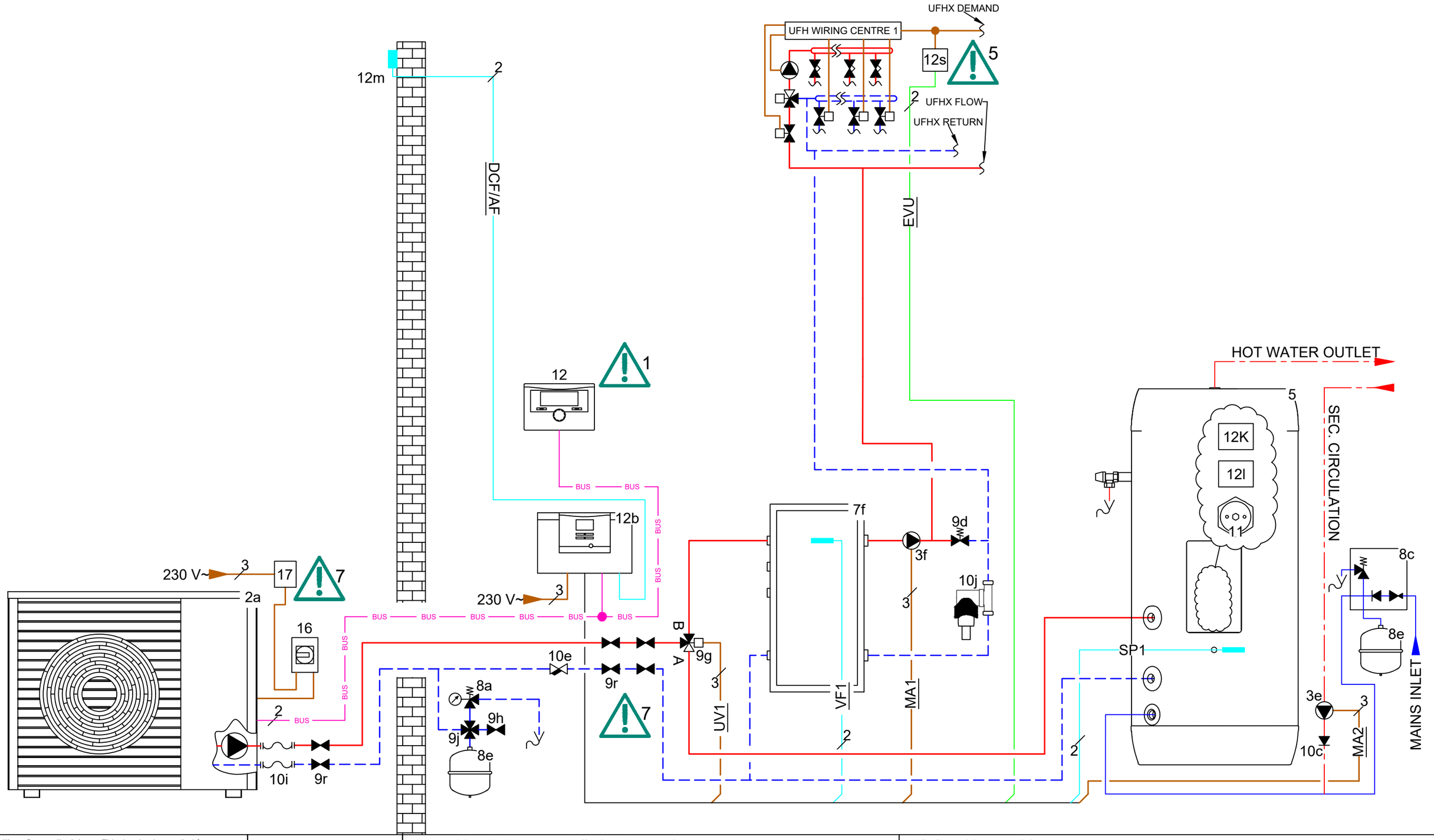
Drawn: A. WILLIS
15/06/2020 REV: A

Appliance(s): aroTHERM Mono, Buffer (40L Decoupler)
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. For meter ready requirements (RHI)



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Drawn: A. WILLIS

15/06/2020 REV: A

Appliance(s): aroTHERM Mono, Buffer (40L Decoupler)

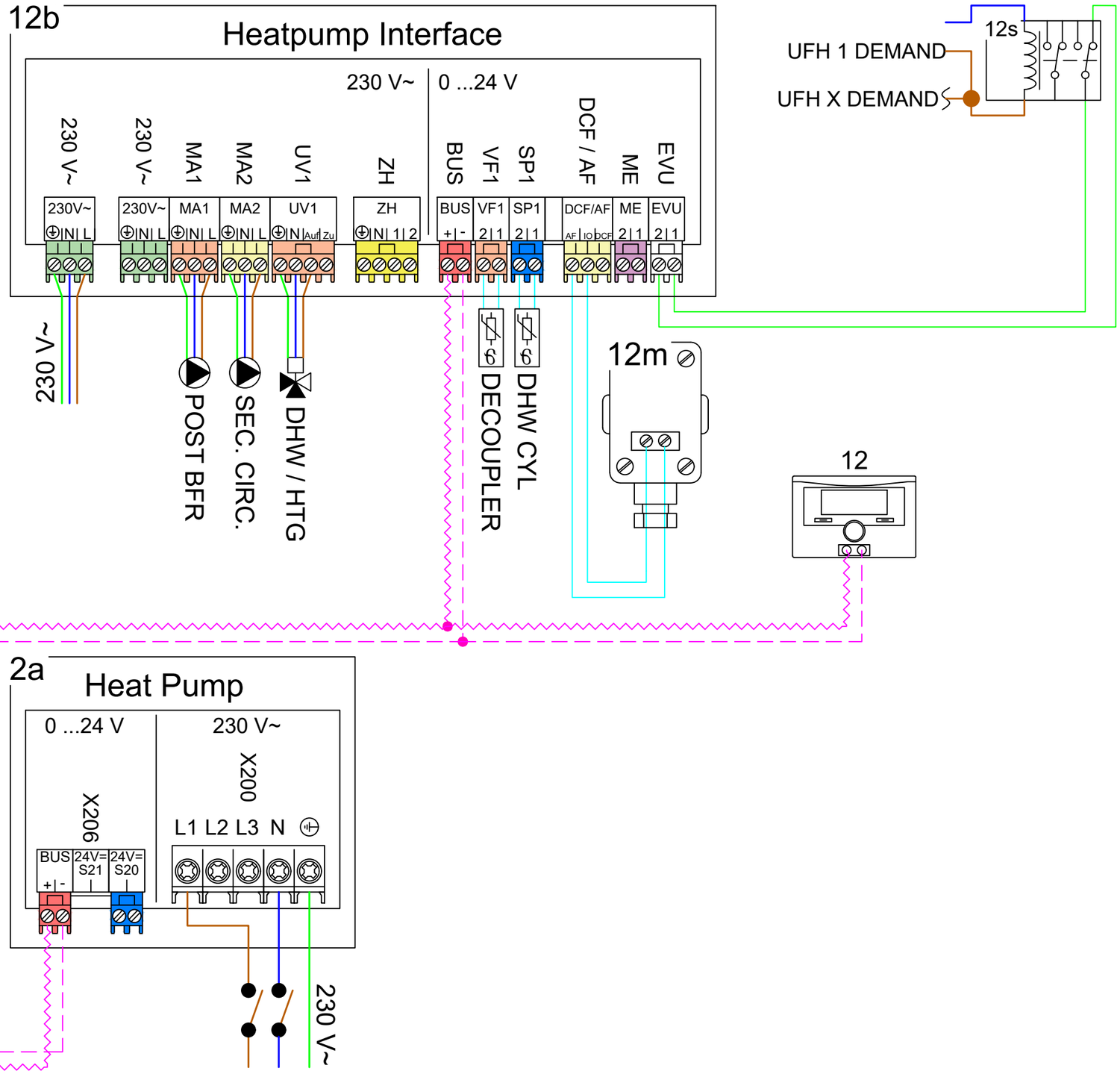
Control(s): VRC 700

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. For meter ready requirements (RHI)



Drawn: A. WILLIS

15/06/2020 REV: A

Appliance(s): aroTHERM Mono, Buffer (40L Decoupler)

Control(s): VRC 700

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

Domestic Hot Water: 1x Cylinder

30111-1011

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sensoCOMFORT / VRC 700 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
System	
Adaptive heat. curve	No
Configure heat. circ.	Zone1
Hybrid manager	Bivalence pt
Heat. bivalence point	-20°
DHW bivalence point	-20°
Energy supplier	Heat. off
Auxiliary heater for	Inactive
System diagram configuration	
System diagram	10
Additional module	
Multi-function.output2	Circ. pump
Aux. heater output	Off
HEATING1	
Type of circuit	Heating
Max limit outs.temp.	30°
Heating curve	**Site specific
Minimum temperature	15°
Maximum temperature	45°
Auto Off mode	Eco
Room temp. mod.	None
Zone1	
Zone activated:	Yes
Zone assignment:	Without
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

Vaillant

02	aroTHERM Monoblock
03e	Secondary Circulation Pump
03f	General Pump
05	uniSTOR DHW Cylinder
07f	40L Decoupler
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	System Controller / Thermostat - VRC 700
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	ZONE
A	15/06/2020	Electric Meter & rotary isolation added to outdoor module.	2,E
		Immersion removed, secondary circulation pump added.	8,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

Drawn: A. WILLIS
15/06/2020 REV: A

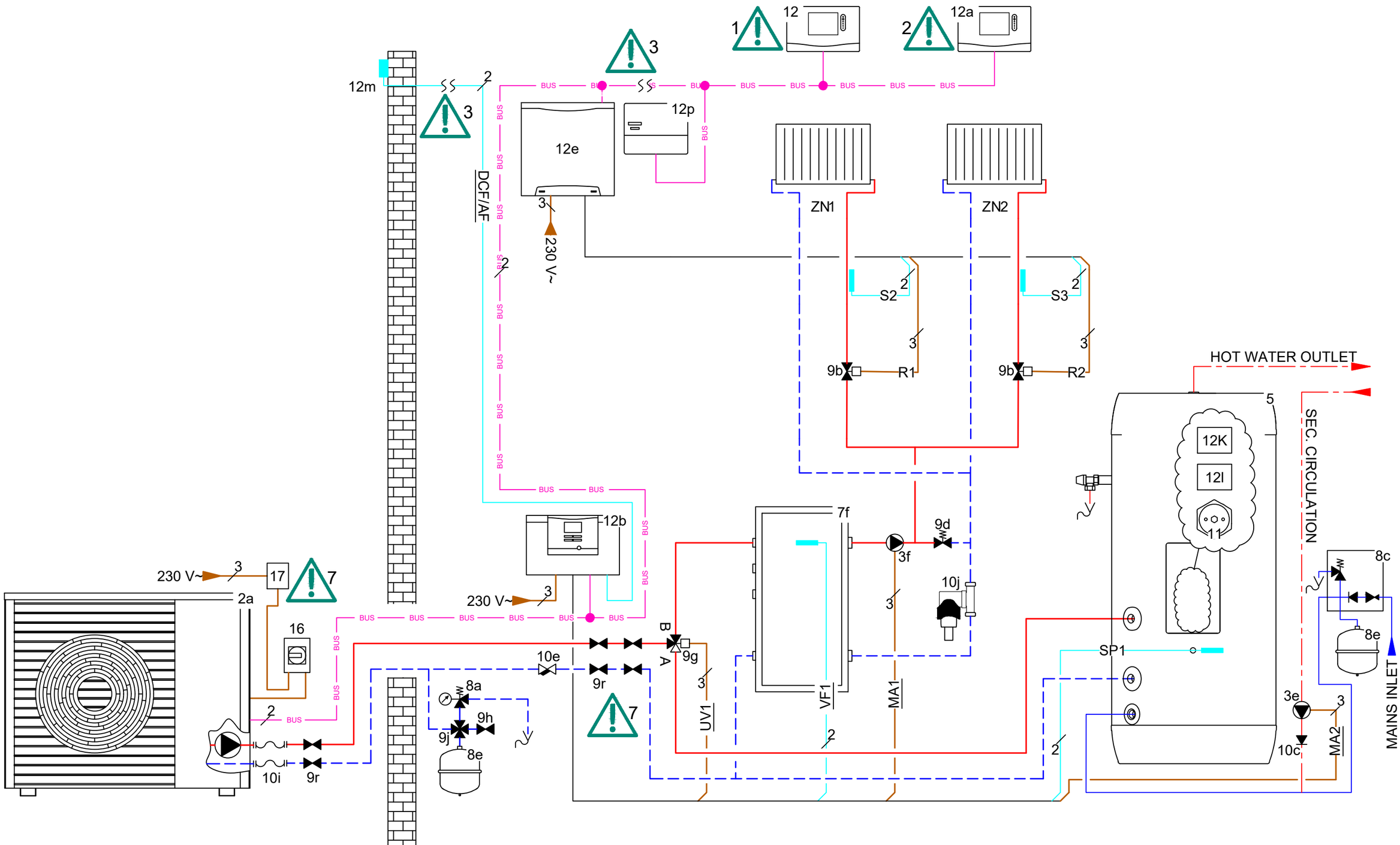
Appliance(s): aroTHERM Mono, Buffer (40L Decoupler)
Control(s): VRC 700

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. For meter ready requirements (RHI)

Vaillant



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Drawn: A. WILLIS
15/06/2020 REV: A

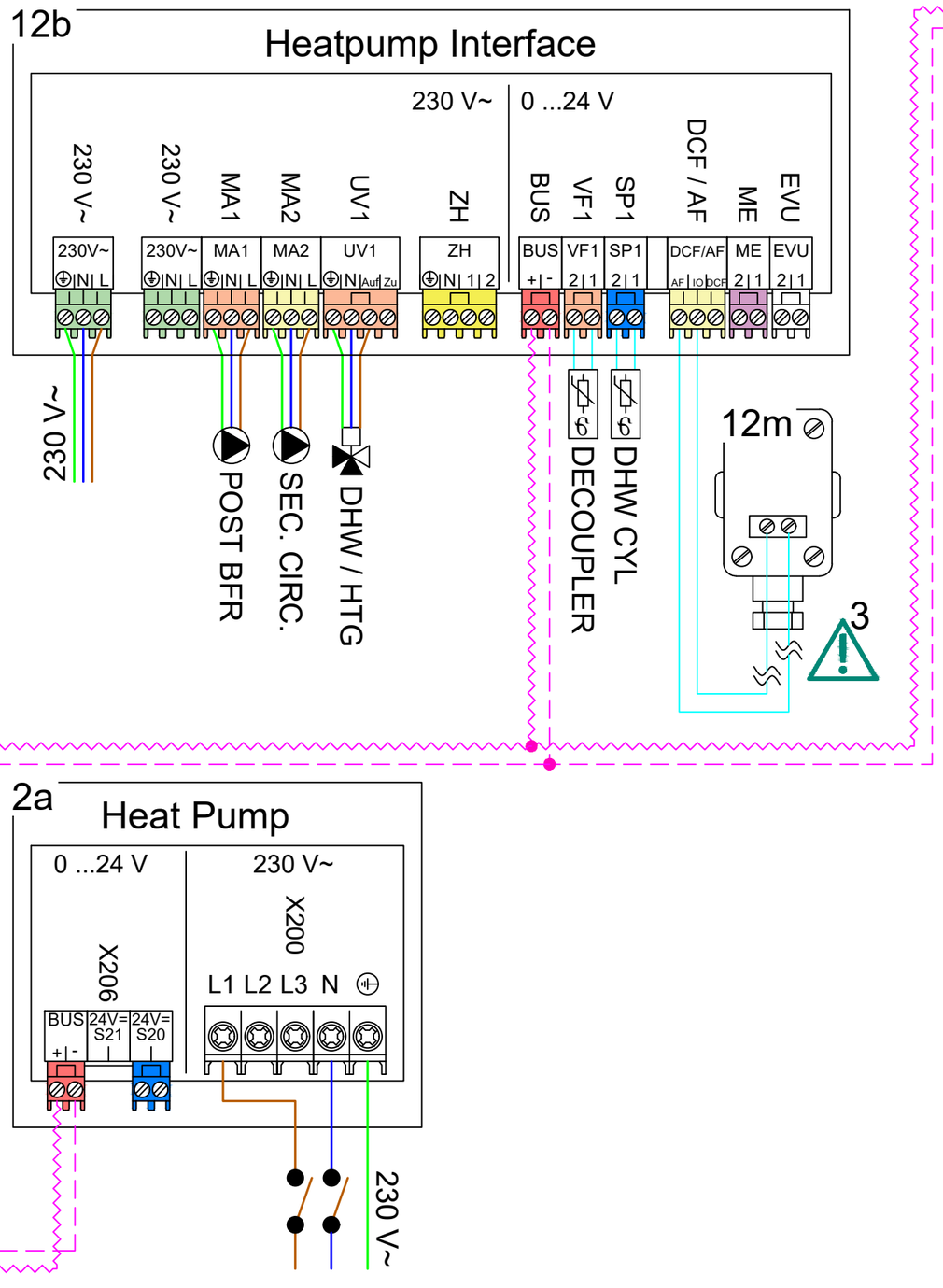
Appliance(s): aroTHERM Mono, Buffer (40L Decoupler)
Control(s): sensoCOMFORT, VR 92

HTG. Circuit(s): 2x Radiator - Direct, ,
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. For meter ready requirements (RHI)

Vaillant



Drawn: A. WILLIS
15/06/2020 REV: A

Appliance(s): aroTHERM Mono, Buffer (40L Decoupler)
Control(s): sensoCOMFORT, VR 92

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

30120-1012

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sensoCOMFORT / VRC 700 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
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

02	aroTHERM Monoblock
03e	Secondary Circulation Pump
03f	General Pump
05	uniSTOR DHW Cylinder
07f	40L Decoupler
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
A	15/06/2020	Electric Meter & rotary isolation added to outdoor module.	2,E
		Immersion removed, secondary circulation pump added.	8,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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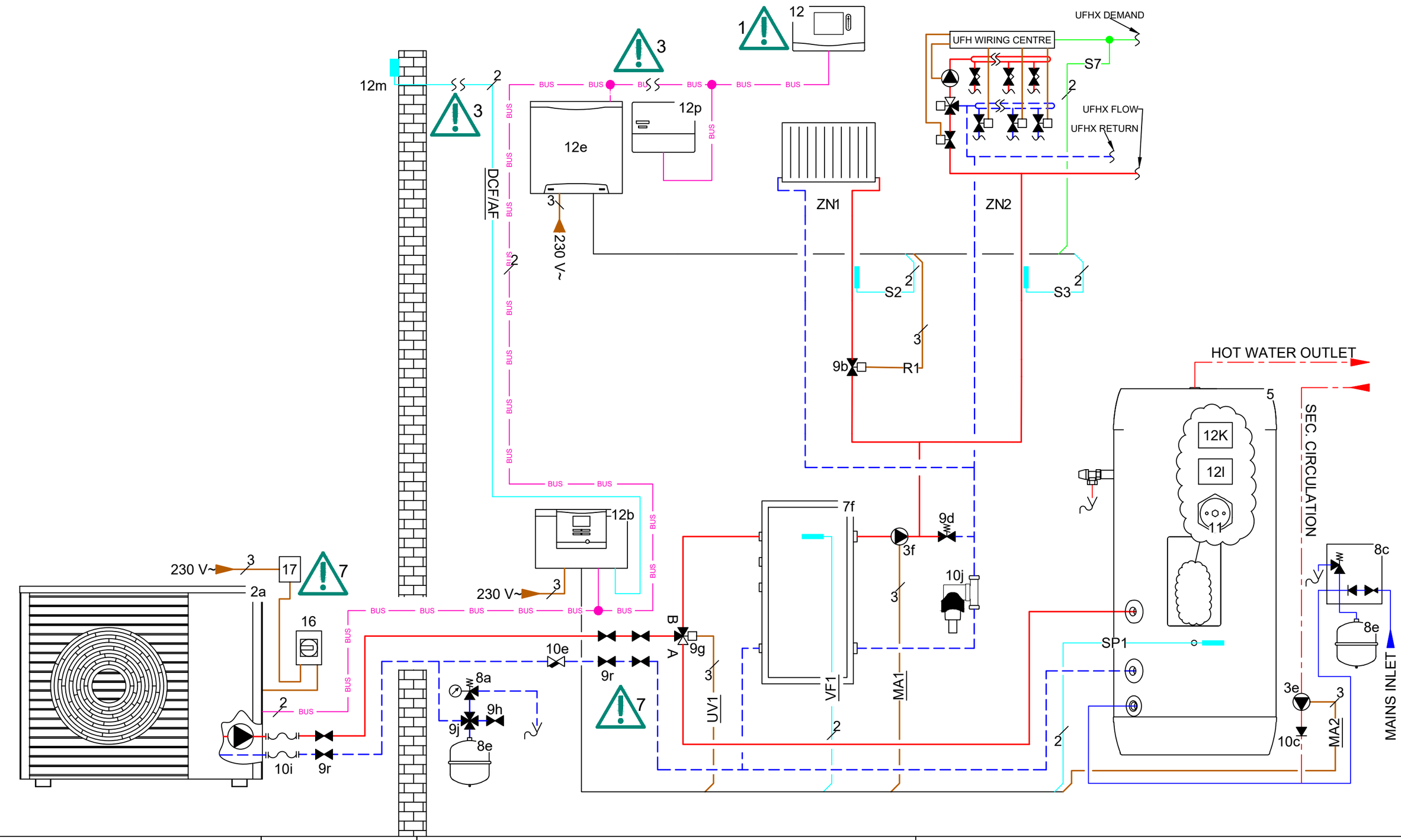
Drawn: A. WILLIS
15/06/2020 REV: A

Appliance(s): aroTHERM Mono, Buffer (40L Decoupler)
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. For meter ready requirements (RHI)



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Drawn: A. WILLIS
15/06/2020 REV: -

Appliance(s): aroTHERM Mono, Buffer (40L Decoupler)
Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Direct, 1x UFH(X) - 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. For meter ready requirements (RHI)

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~

POST BFR

SEC. CIRC.

DHW / HTG

DECOUPLER

DHW CYL

12m

3

12e

ZN1 - RAD

ZN2 - UFH

4

UFH DEMAND

UFH X DEMAND

3

12p

12

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

VR 71

230 V~

ZN1 - RAD

2a Heat Pump

0 ...24 V | 230 V~

X206

X200

BUS | 24V= S21 | 24V= S20 | L1 L2 L3 N

230 V~

Drawn: A. WILLIS

15/06/2020 REV: -

Appliance(s): aroTHERM Mono, Buffer (40L Decoupler)

Control(s): sensoCOMFORT

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

Domestic Hot Water: 1x Cylinder

30121-1012

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sensoCOMFORT / VRC 700 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
Conf. ext. input:	Open, 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°
Set-back mode:	Normal
Room temp. mod.:	Expanded
Zone 1	
Zone activated:	Yes
Zone assignment:	Control

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 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 Monoblock
03e	Secondary Circulation Pump
03f	General Pump
05	uniSTOR DHW Cylinder
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09b	Zone Valve
09d	Bypass Valve
09g	Diverter Valve
09h	Fill / Drain Valve
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17	Electric Meter

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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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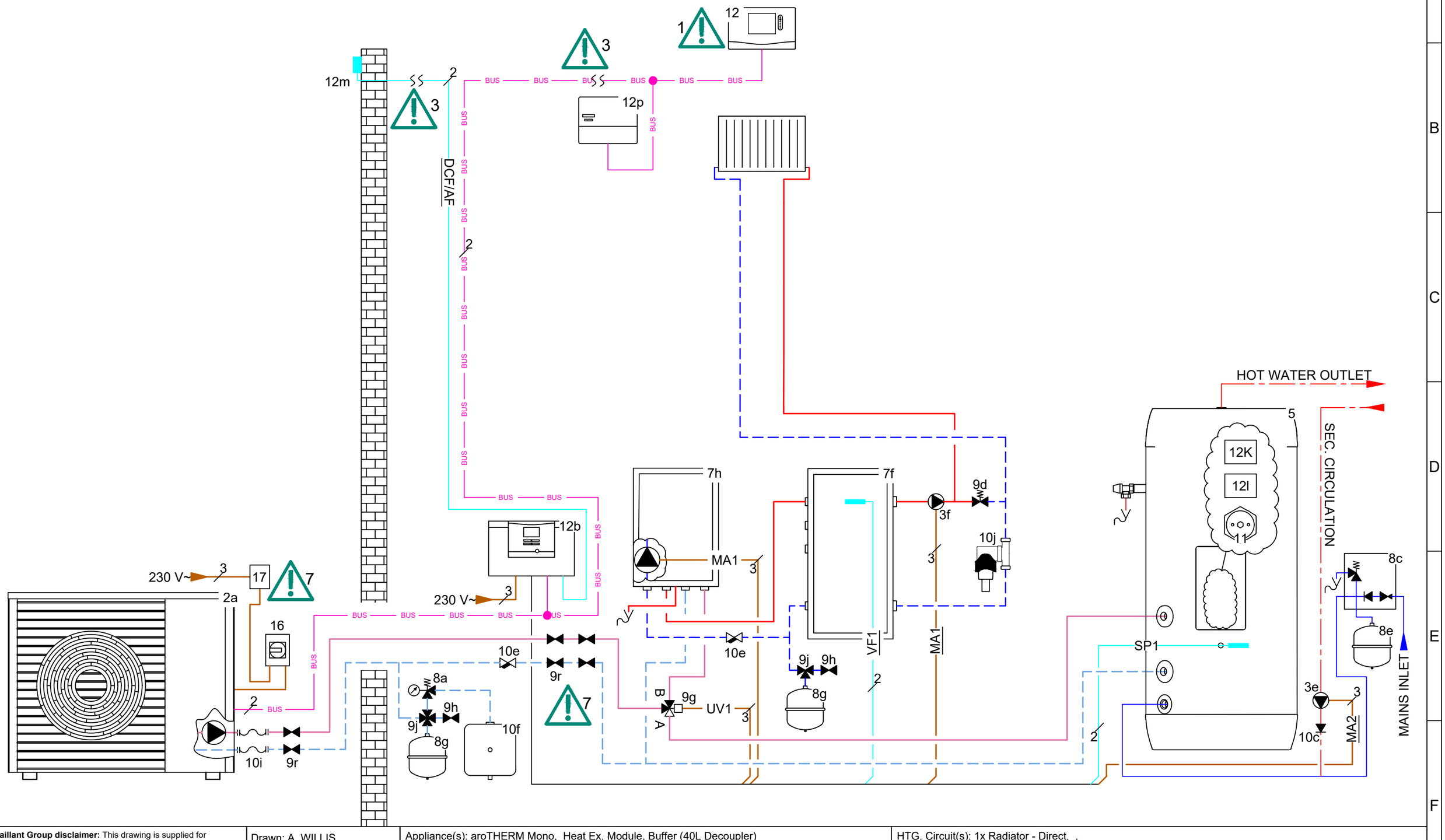
Drawn: A. WILLIS
15/06/2020 REV: -

Appliance(s): aroTHERM Mono, Buffer (40L Decoupler)
Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Direct, 1x UFH(X) - 3rd Party,
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. For meter ready requirements (RHI)



Drawn: A. WILLIS

16/06/2020 REV: A

Appliance(s): aroTHERM Mono, Heat Ex. Module, Buffer (40L Decoupler)

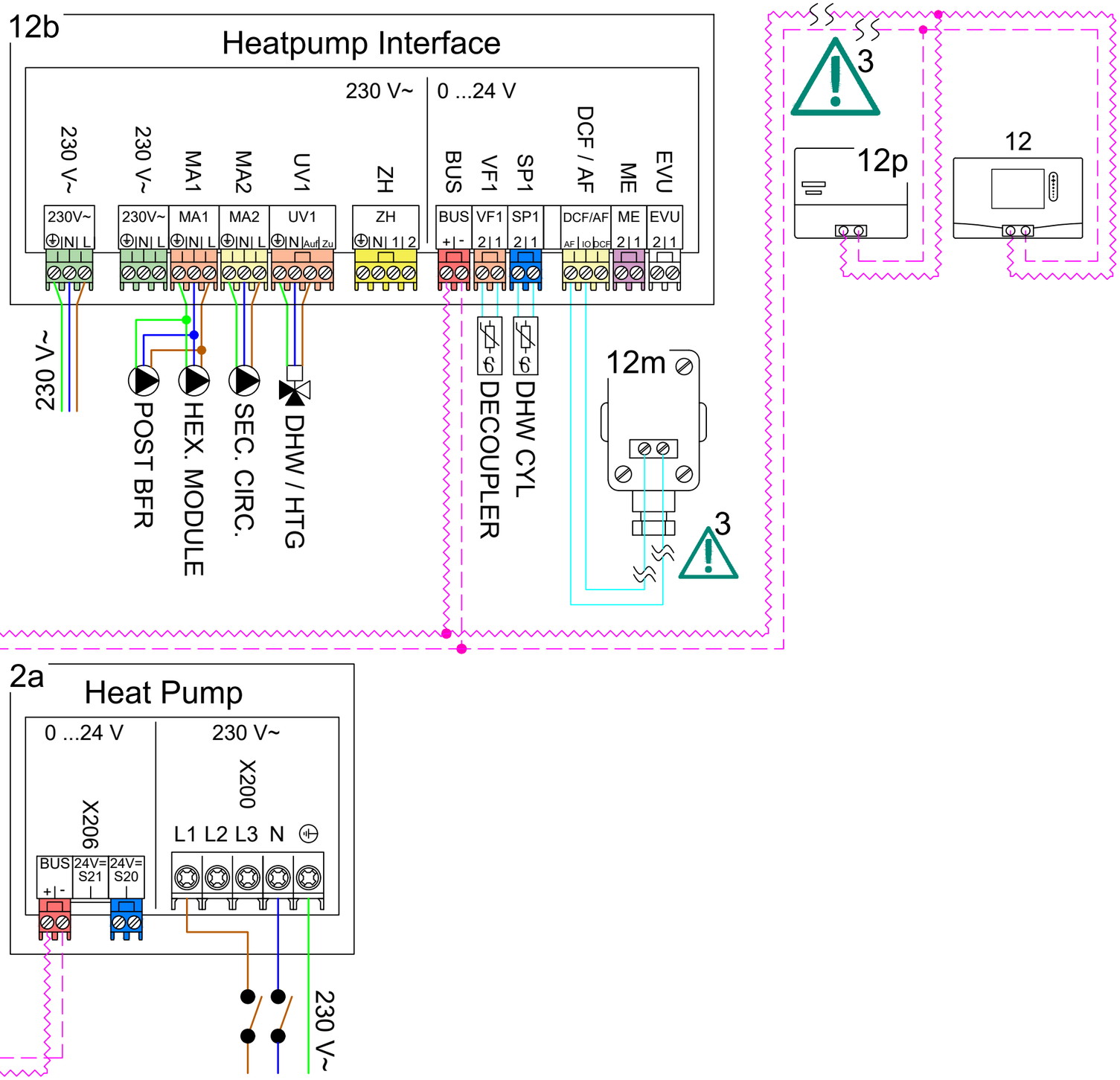
Control(s): sensoCOMFORT

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. For meter ready requirements (RHI)



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Drawn: A. WILLIS
16/06/2020 REV: A

Appliance(s): aroTHERM Mono, Heat Ex. Module, Buffer (40L Decoupler)
Control(s): sensoCOMFORT

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

30240-1011

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8. These disclaimers and exclusions shall be governed by and construed in accordance with English law.

sensoCOMFORT / VRC 700 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
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
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 Monoblock
03e	Secondary Circulation Pump
03f	General Pump
05	uniSTOR DHW Cylinder
07f	40L Decoupler
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
12p	Wireless Reciever
16	Rotary Isolator
17	Electric Meter

REV	DATE	DESCRIPTION	ZONE
A	16/06/2020	Electric Meter & rotary isolation added to outdoor module.	2,E
		Immersion removed, secondary circulation pump added.	8,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

Drawn: A. WILLIS
16/06/2020 REV: A

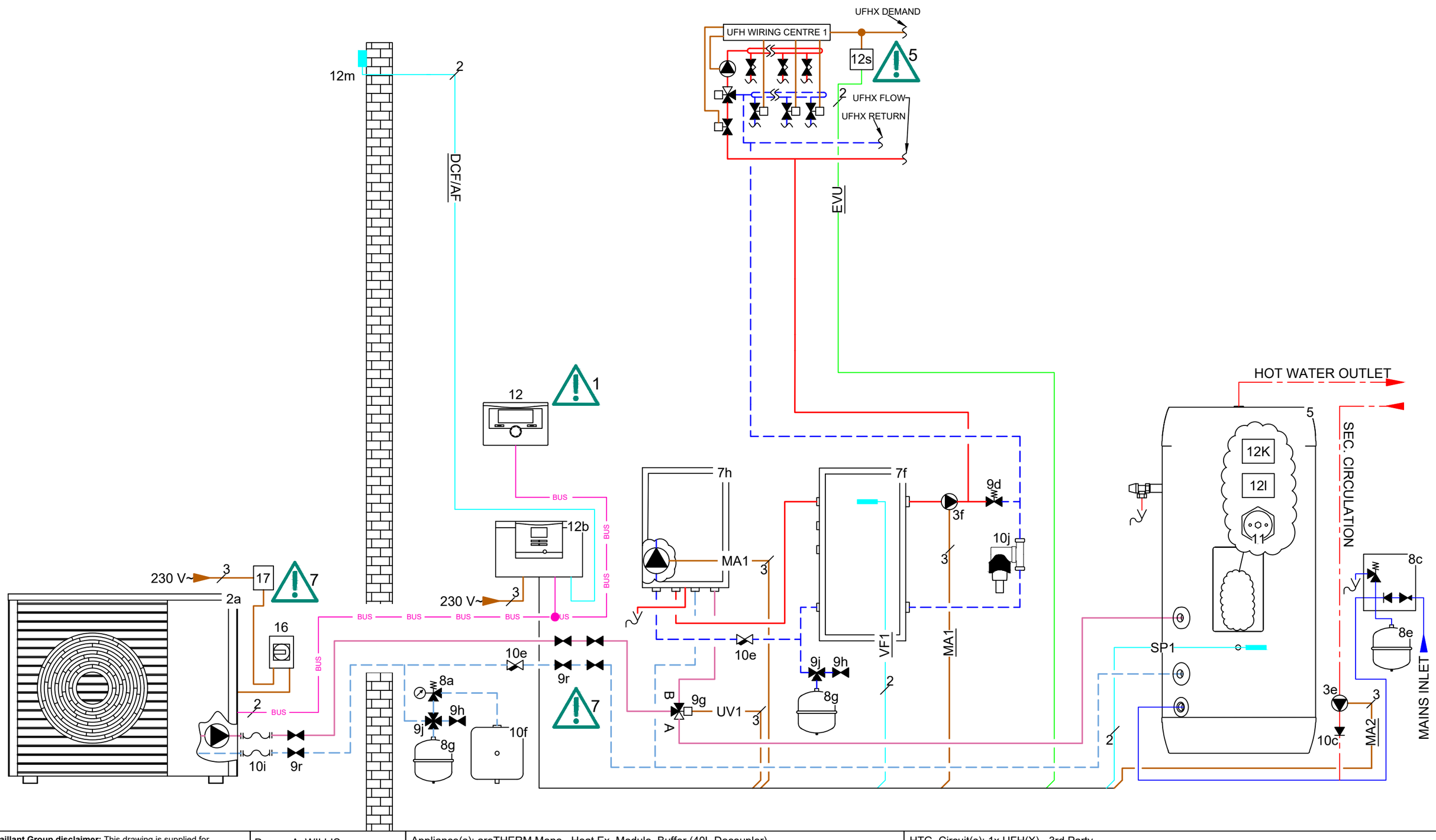
Appliance(s): aroTHERM Mono, Heat Ex. Module, Buffer (40L Decoupler)
Control(s): sensoCOMFORT

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. DPDT Relay (not supplied by Vaillant). See page 2 for detailed wiring.
7. For meter ready requirements (RHI)



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Drawn: A. WILLIS

16/06/2020 REV: A

Appliance(s): aroTHERM Mono, Heat Ex. Module, Buffer (40L Decoupler)

Control(s): VRC 700

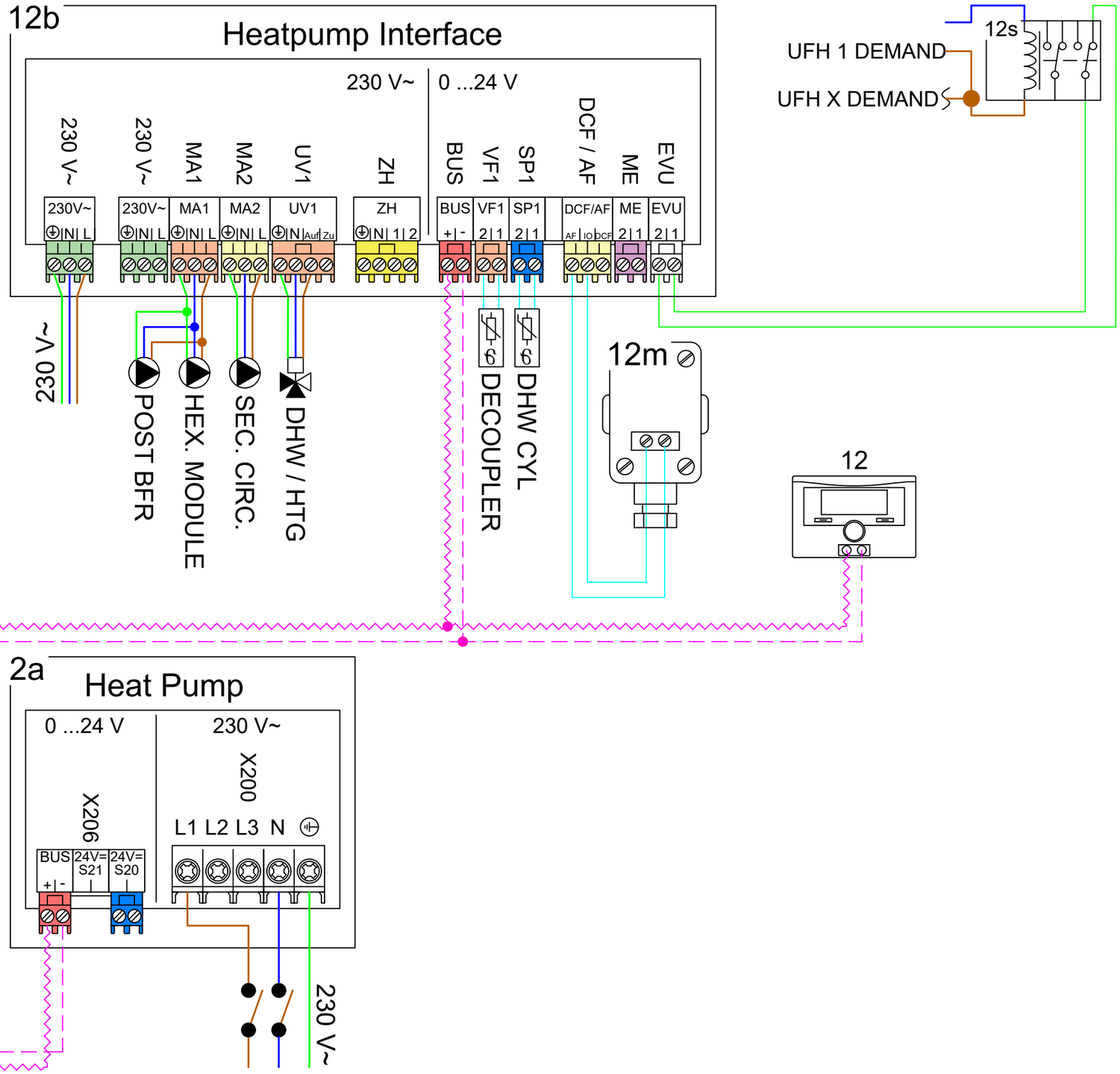
HTG. Circuit(s): 1x UFH(X) - 3rd Party, ,

Domestic Hot Water: 1x Cylinder

30241-1011

-See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
5. DPDT Relay (not supplied by Vaillant). See page 2 for detailed wiring.
7. For meter ready requirements (RHI)

Vaillant



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	16/06/2020 REV: A	Control(s): VRC 700	Domestic Hot Water: 1x Cylinder

30241-1011

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sensoCOMFORT / VRC 700 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
System	
Adaptive heat. curve	No
Configure heat. circ.	Zone1
Hybrid manager	Bivalence pt
Heat. bivalence point	-20°
DHW bivalence point	-20°
Energy supplier	Heat. off
Auxiliary heater for	Inactive
System diagram configuration	
System diagram	10
Additional module	
Multi-function.output2	Circ. pump
Aux. heater output	Off
HEATING1	
Type of circuit	Heating
Max limit outs.temp.	30°
Heating curve	**Site specific
Minimum temperature	15°
Maximum temperature	45°
Auto Off mode	Eco
Room temp. mod.	None
Zone1	
Zone activated:	Yes
Zone assignment:	Without
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

Vaillant

02	aroTHERM Monoblock
03e	Secondary Circulation Pump
03f	General Pump
05	uniSTOR DHW Cylinder
07f	40L Decoupler
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	System Controller / Thermostat - VRC 700
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	ZONE
A	16/06/2020	Electric Meter & rotary isolation added to outdoor module.	2,E
		Immersion removed, secondary circulation pump added.	8,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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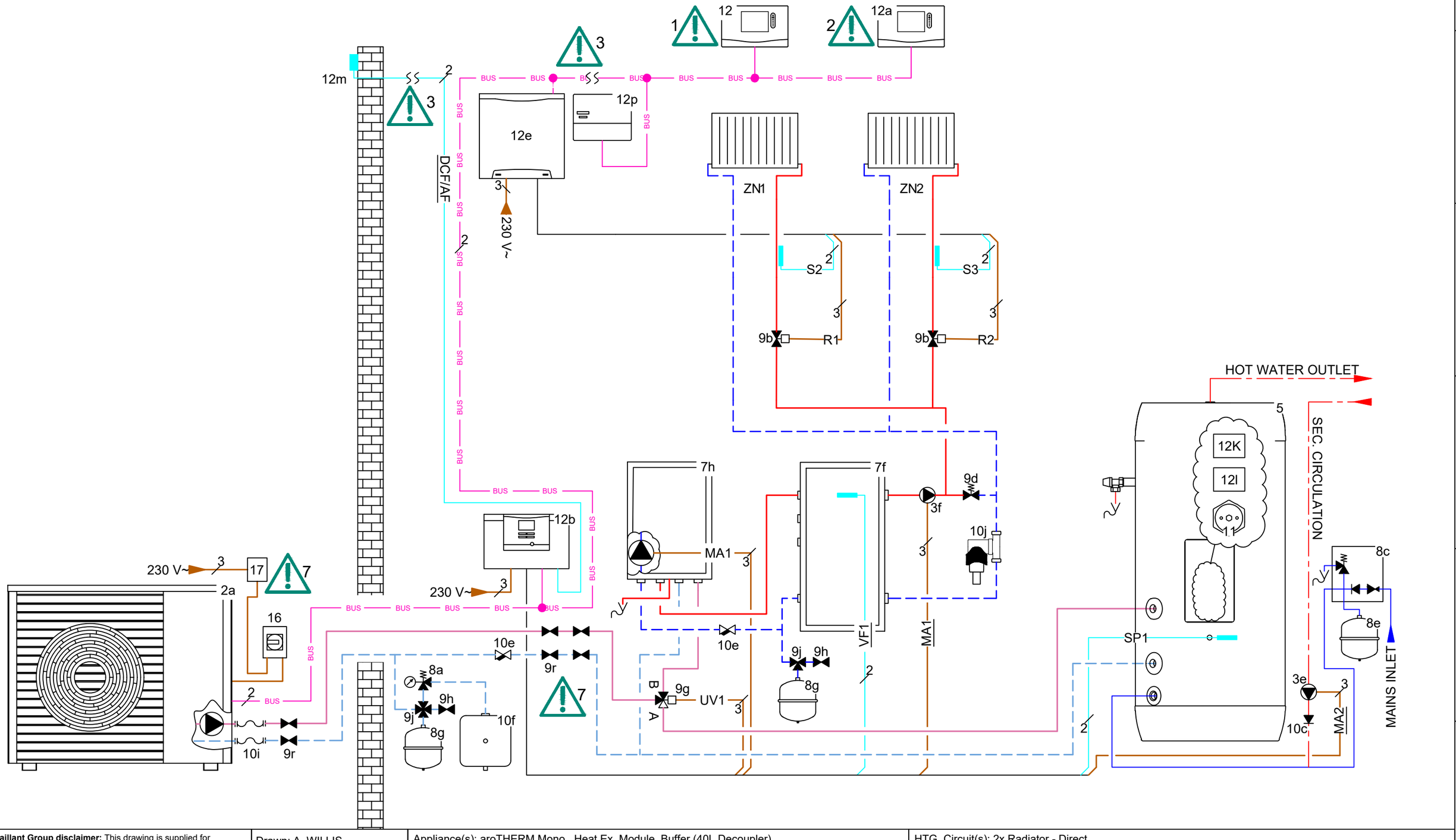
Drawn: A. WILLIS
16/06/2020 REV: A

Appliance(s): aroTHERM Mono, Heat Ex. Module, Buffer (40L Decoupler)
Control(s): VRC 700

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. For meter ready requirements (RHI)



Drawn: A. WILLIS
16/06/2020 REV: A

Appliance(s): aroTHERM Mono, Heat Ex. Module, Buffer (40L Decoupler)
Control(s): sensoCOMFORT, VR 92

HTG. Circuit(s): 2x Radiator - 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. For meter ready requirements (RHI)

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~

POST BFR

HEX. MODULE

SEC. CIRC.

DHW / HTG

DECOUPLER

DHW CYL

12m

3

12e

ZN1 - RAD

ZN2 - RAD

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 - RAD

3

12p

12

12a

2a Heat Pump

0 ...24 V | 230 V~

X206

X200

BUS | 24V= S21 | 24V= S20 | L1 L2 L3 N

230 V~

Drawn: A. WILLIS

16/06/2020 REV: A

Appliance(s): aroTHERM Mono, Heat Ex. Module, Buffer (40L Decoupler)

Control(s): sensoCOMFORT, VR 92

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

Domestic Hot Water: 1x Cylinder

30250-1012

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sensoCOMFORT / VRC 700 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
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

02	aroTHERM Monoblock
03e	Secondary Circulation Pump
03f	General Pump
05	uniSTOR DHW Cylinder
07f	40L Decoupler
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
A	16/06/2020	Electric Meter & rotary isolation added to outdoor module.	2,E
		Immersion removed, secondary circulation pump added.	8,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. WILLIS

16/06/2020 REV: A

Appliance(s): aroTHERM Mono, Heat Ex. Module, Buffer (40L Decoupler)

Control(s): sensoCOMFORT, VR 92

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

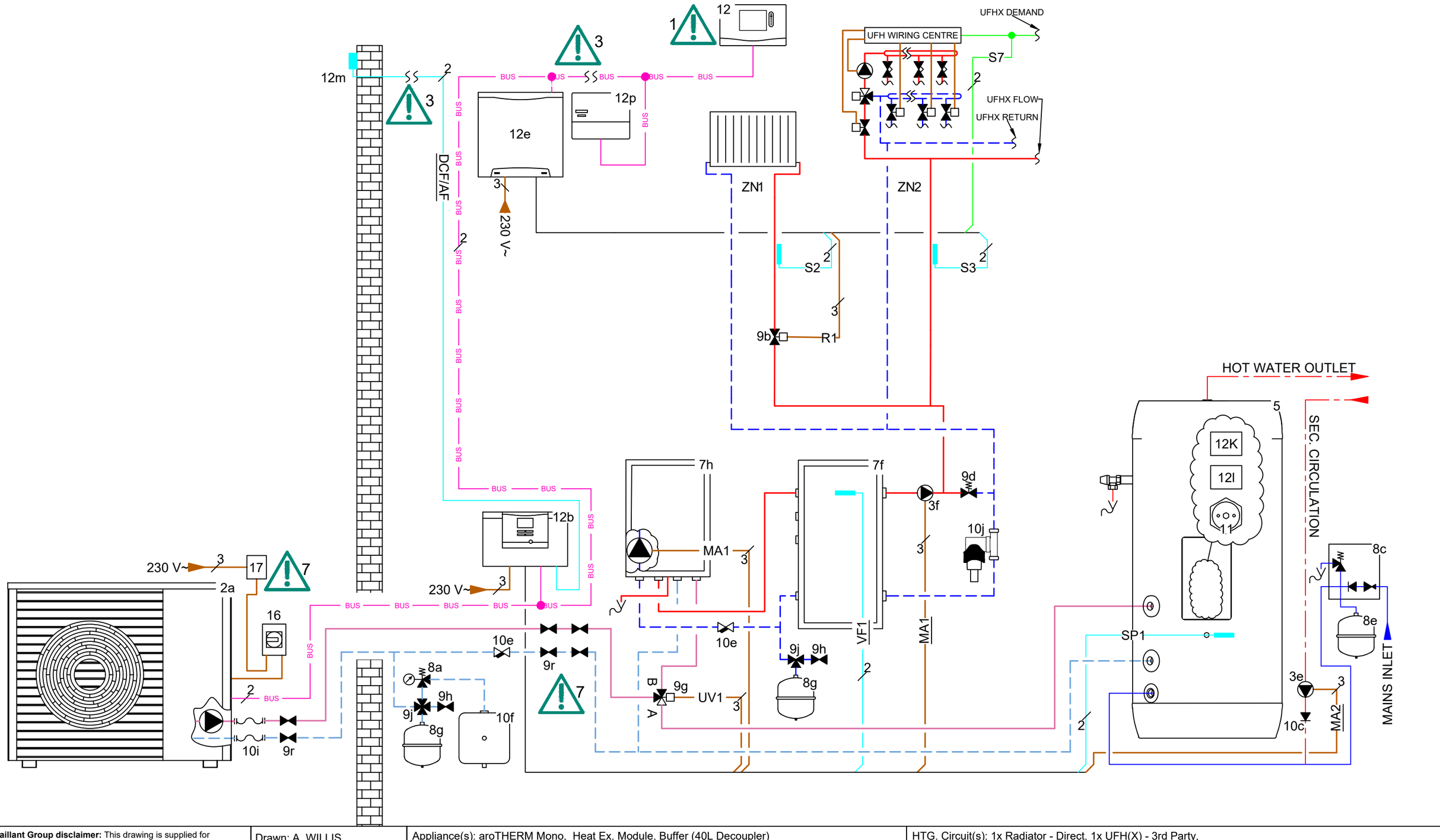
Domestic Hot Water: 1x Cylinder

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
7. For meter ready requirements (RHI)

Vaillant



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	16/06/2020 REV: A	Control(s): sensoCOMFORT	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
7. For meter ready requirements (RHI)

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~

POST BFR

HEX. MODULE

SEC. CIRC.

DHW / HTG

DECOUPLER

DHW CYL

12m

3

12e

ZN1 - RAD

ZN2 - UFH

4

UFH DEMAND

UFH X DEMAND

3

12p

12

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

VR 71

230 V~

ZN1 - RAD

2a Heat Pump

0 ...24 V | 230 V~

X206 | X200

BUS +|- | 24V= S21 | 24V= S20 | L1 L2 L3 N

230 V~

Drawn: A. WILLIS

16/06/2020 REV: A

Appliance(s): aroTHERM Mono, Heat Ex. Module, Buffer (40L Decoupler)

Control(s): sensoCOMFORT

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

Domestic Hot Water: 1x Cylinder

30251-1012

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sensoCOMFORT / VRC 700 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
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°
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

02	aroTHERM Monoblock
03e	Secondary Circulation Pump
03f	General Pump
05	uniSTOR DHW Cylinder
07f	40L Decoupler
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
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
A	15/06/2020	Electric Meter & rotary isolation added to outdoor module.	2,E
		Immersion removed, secondary circulation pump added.	8,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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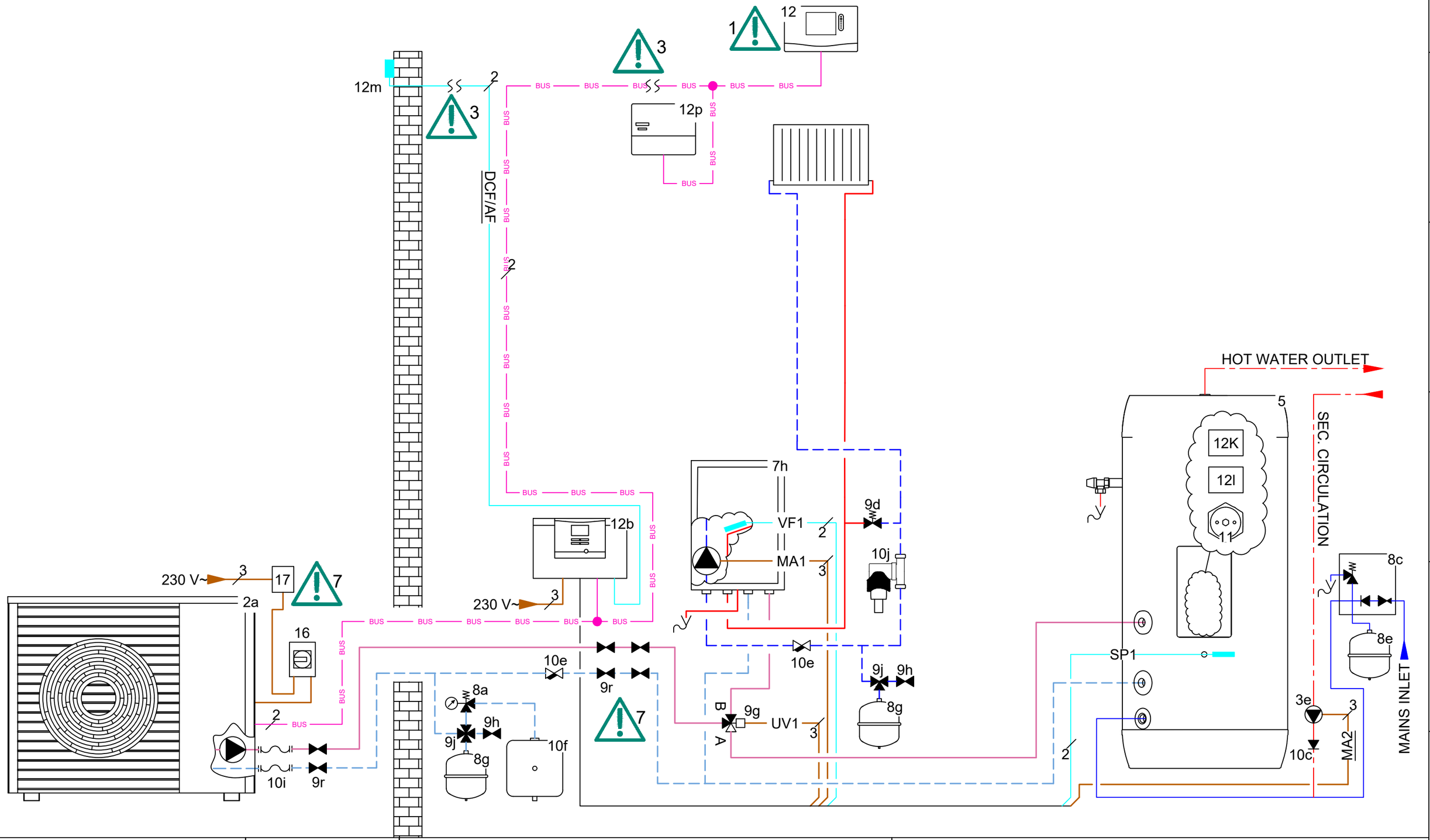
Drawn: A. WILLIS
16/06/2020 REV: A

Appliance(s): aroTHERM Mono, Heat Ex. Module, Buffer (40L Decoupler)
Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Direct, 1x UFH(X) - 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. For meter ready requirements (RHI)



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Drawn: A. WILLIS

16/06/2020 REV: A

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

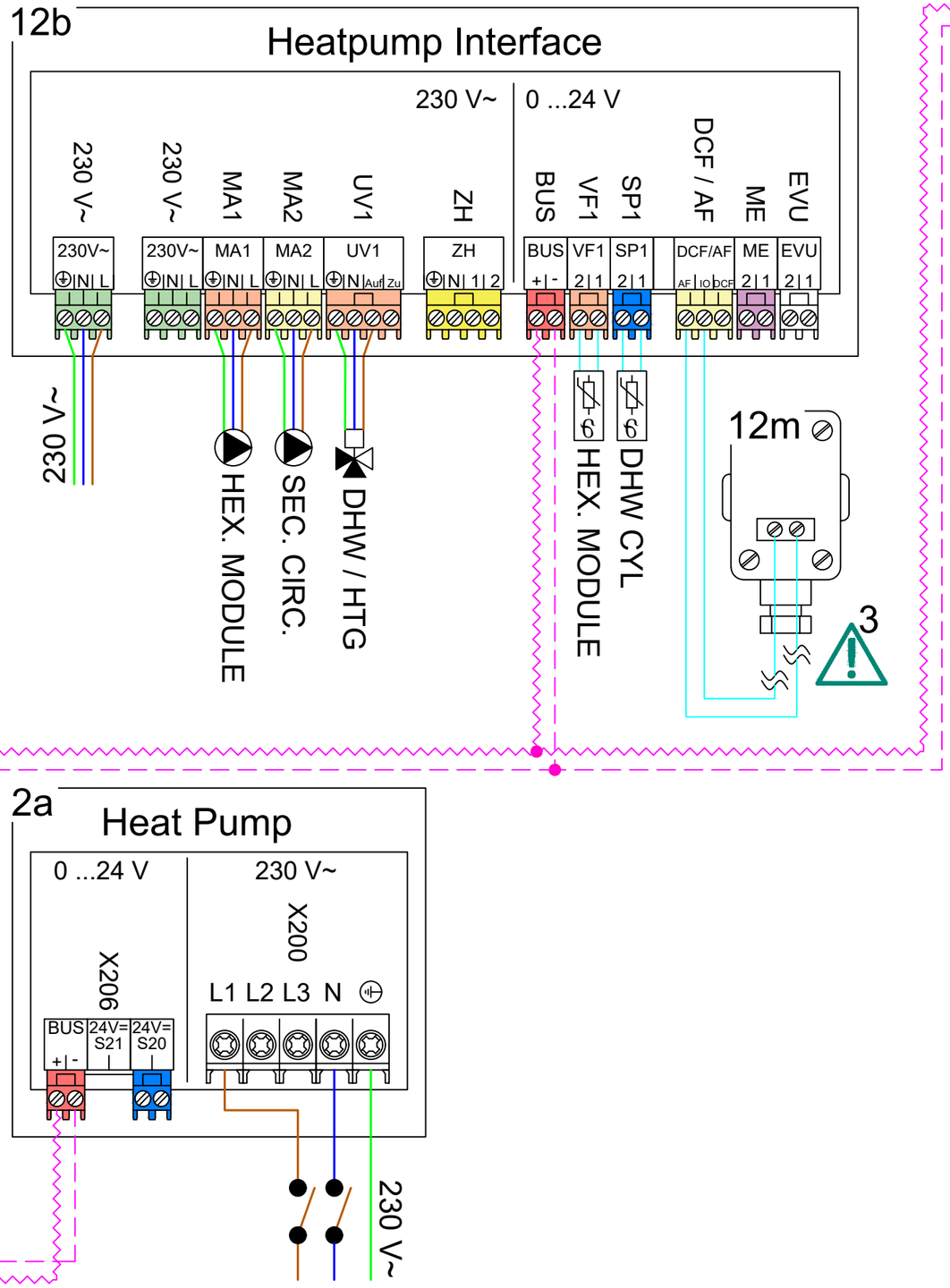
Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - 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. For meter ready requirements (RHI)



Drawn: A. WILLIS
16/06/2020 REV: A

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

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

30130-1011

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sensoCOMFORT / VRC 700 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
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
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

02	aroTHERM Monoblock
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
12p	Wireless Reciever
16	Rotary Isolator
17	Electric Meter

REV	DATE	DESCRIPTION	ZONE
A	15/06/2020	Electric Meter & rotary isolation added to outdoor module.	2,E
		Immersion removed, secondary circulation pump added.	8,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

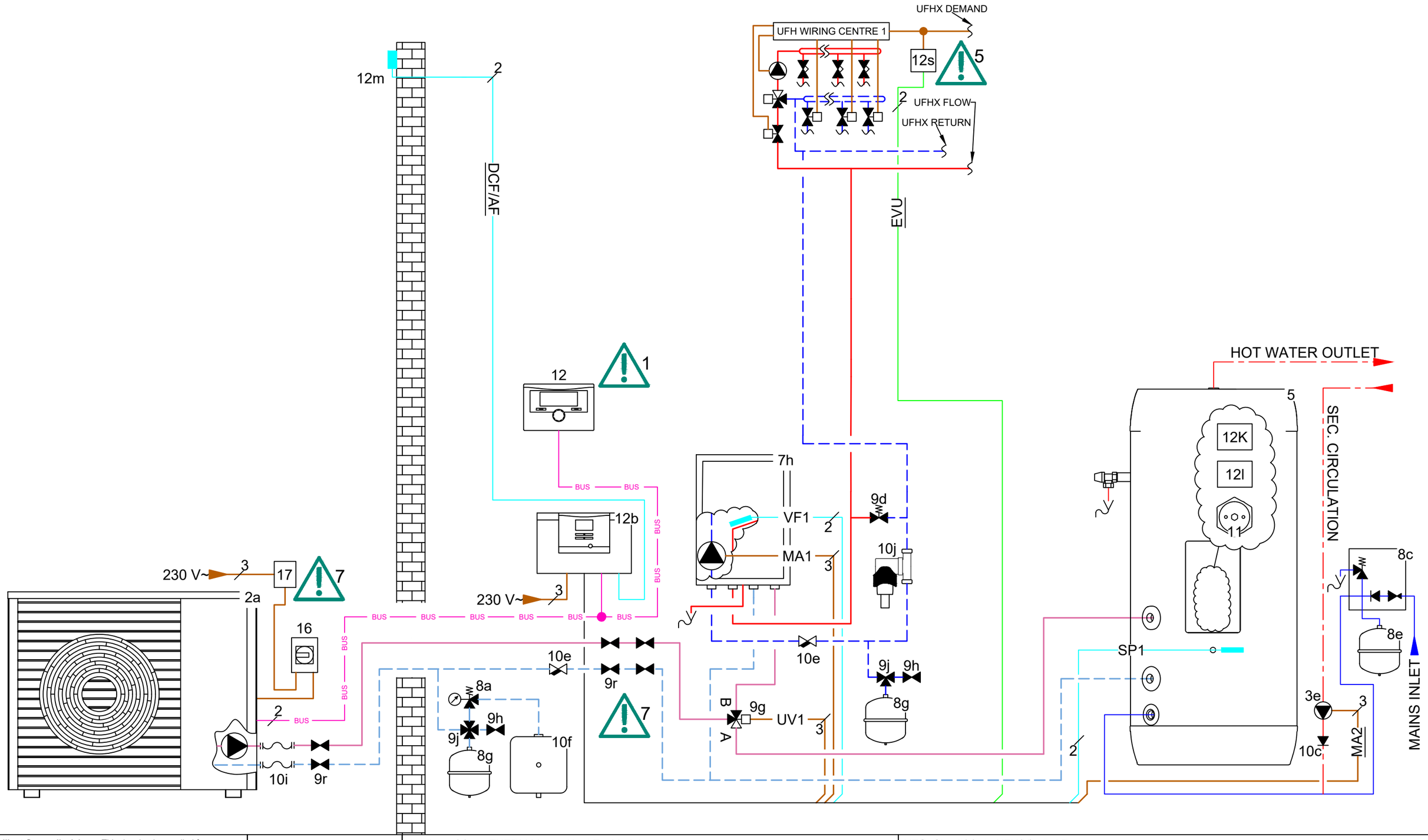
Drawn: A. WILLIS
16/06/2020 REV: A

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

HTG. Circuit(s): 1x Radiator - 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. For meter ready requirements (RHI)



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Drawn: A. WILLIS
16/06/2020 REV: A

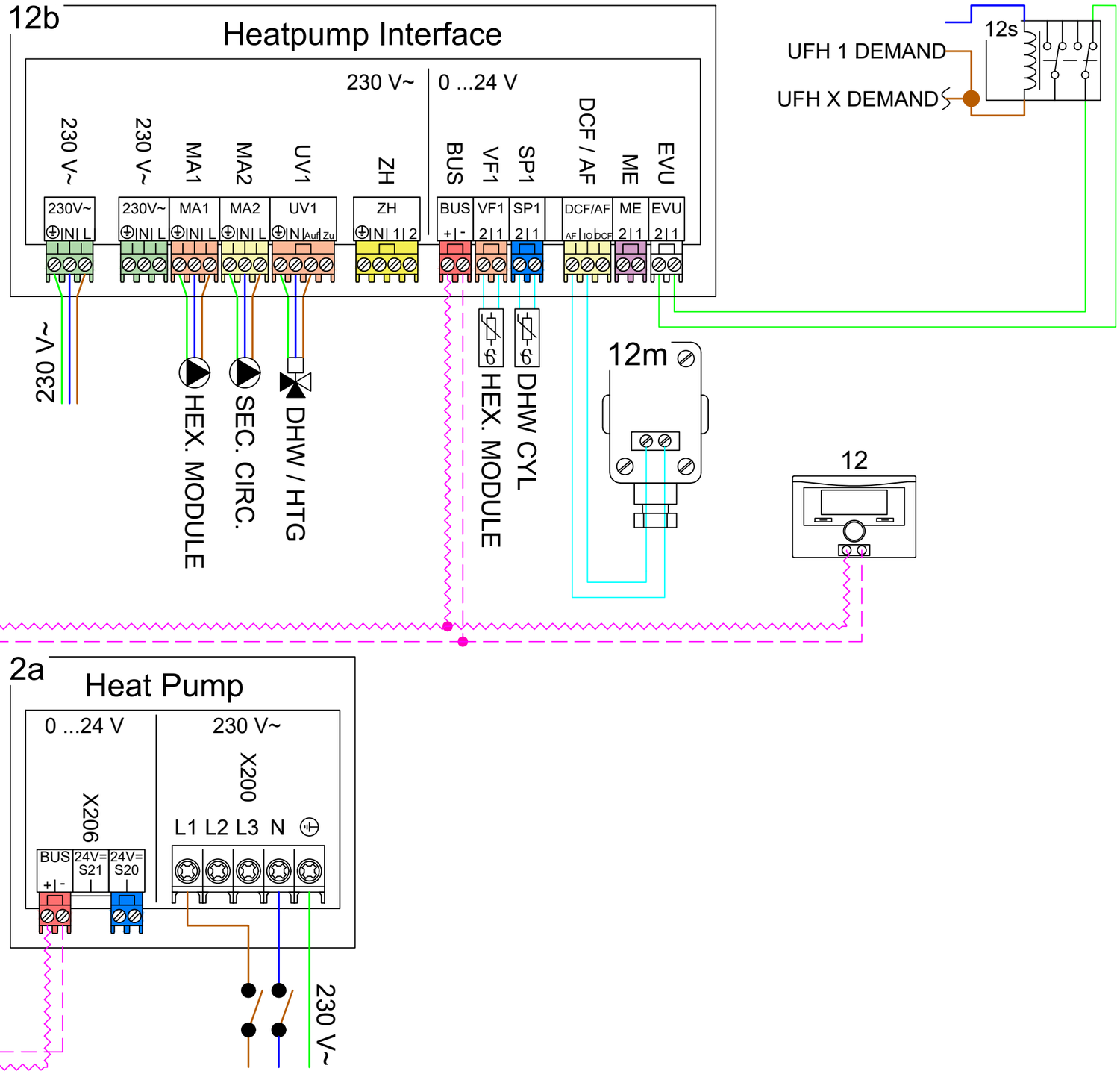
Appliance(s): aroTHERM Mono, Heat Ex. Module
Control(s): VRC 700

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. For meter ready requirements (RHI)

Vaillant



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Drawn: A. WILLIS
16/06/2020 REV: A

Appliance(s): aroTHERM Mono, Heat Ex. Module
Control(s): VRC 700

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

30131-1011

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sensoCOMFORT / VRC 700 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
System	
Adaptive heat. curve	No
Configure heat. circ.	Zone1
Hybrid manager	Bivalence pt
Heat. bivalence point	-20°
DHW bivalence point	-20°
Energy supplier	Heat. off
Auxiliary heater for	DHW+ heat.
System diagram configuration	
System diagram	10
Additional module	
Multi-function.output2	Circ. pump
Aux. heater output	Stage3
HEATING 1	
Type of circuit	Heating
Max limit outs.temp.	30°
Heating curve	**Site specific
Minimum temperature	15°
Maximum temperature	45°
Auto Off mode	Eco
Room temp. mod.	None
Zone 1	
Zone activated:	Yes
Zone assignment:	Without
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 Monoblock
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	System Controller / Thermostat - VRC 700
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	ZONE
A	15/06/2020	Electric Meter & rotary isolation added to outdoor module.	2,E
		Immersion removed, secondary circulation pump added.	8,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

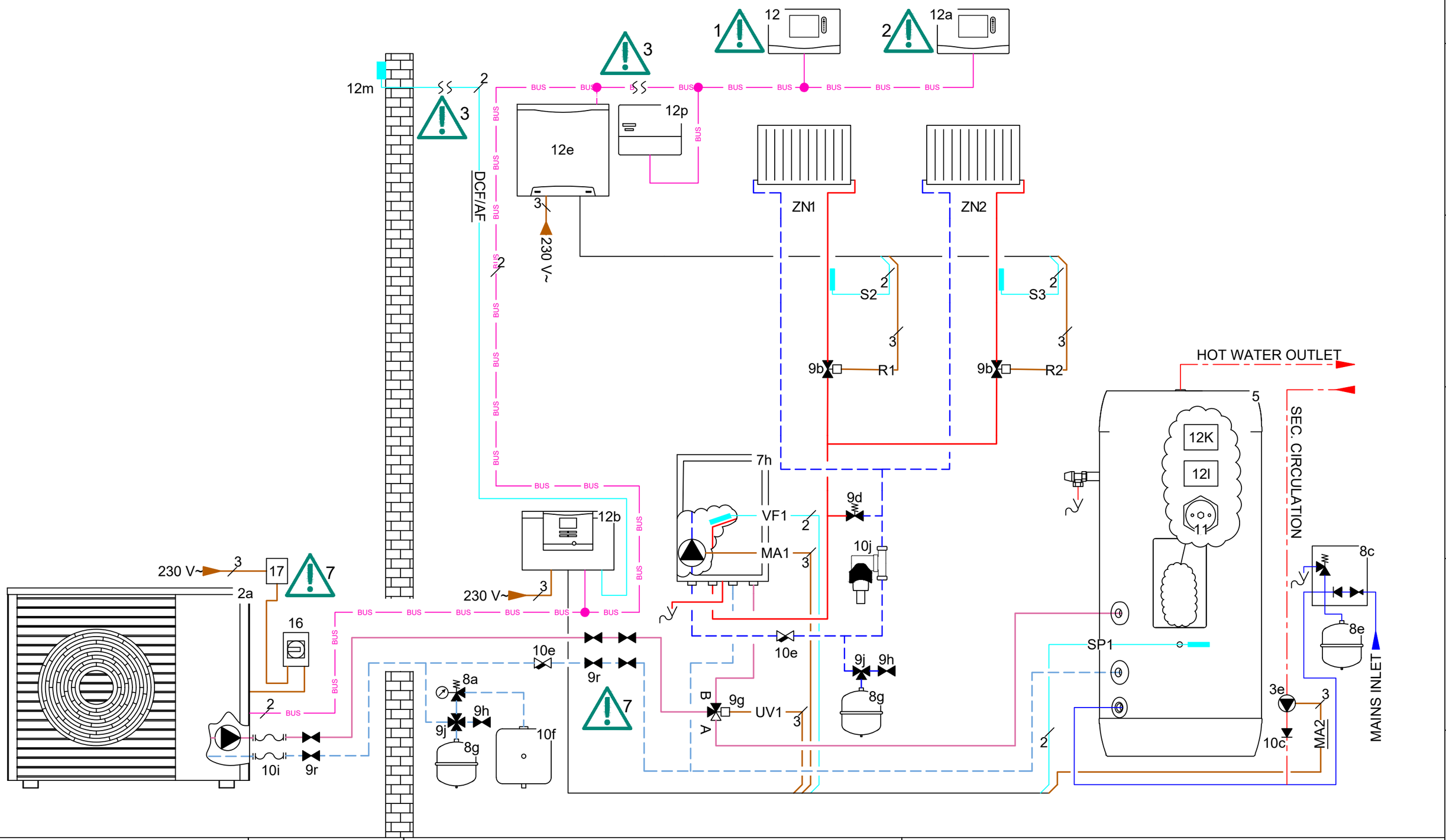
Drawn: A. WILLIS
16/06/2020 REV: A

Appliance(s): aroTHERM Mono, Heat Ex. Module
Control(s): VRC 700

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. For meter ready requirements (RHI)



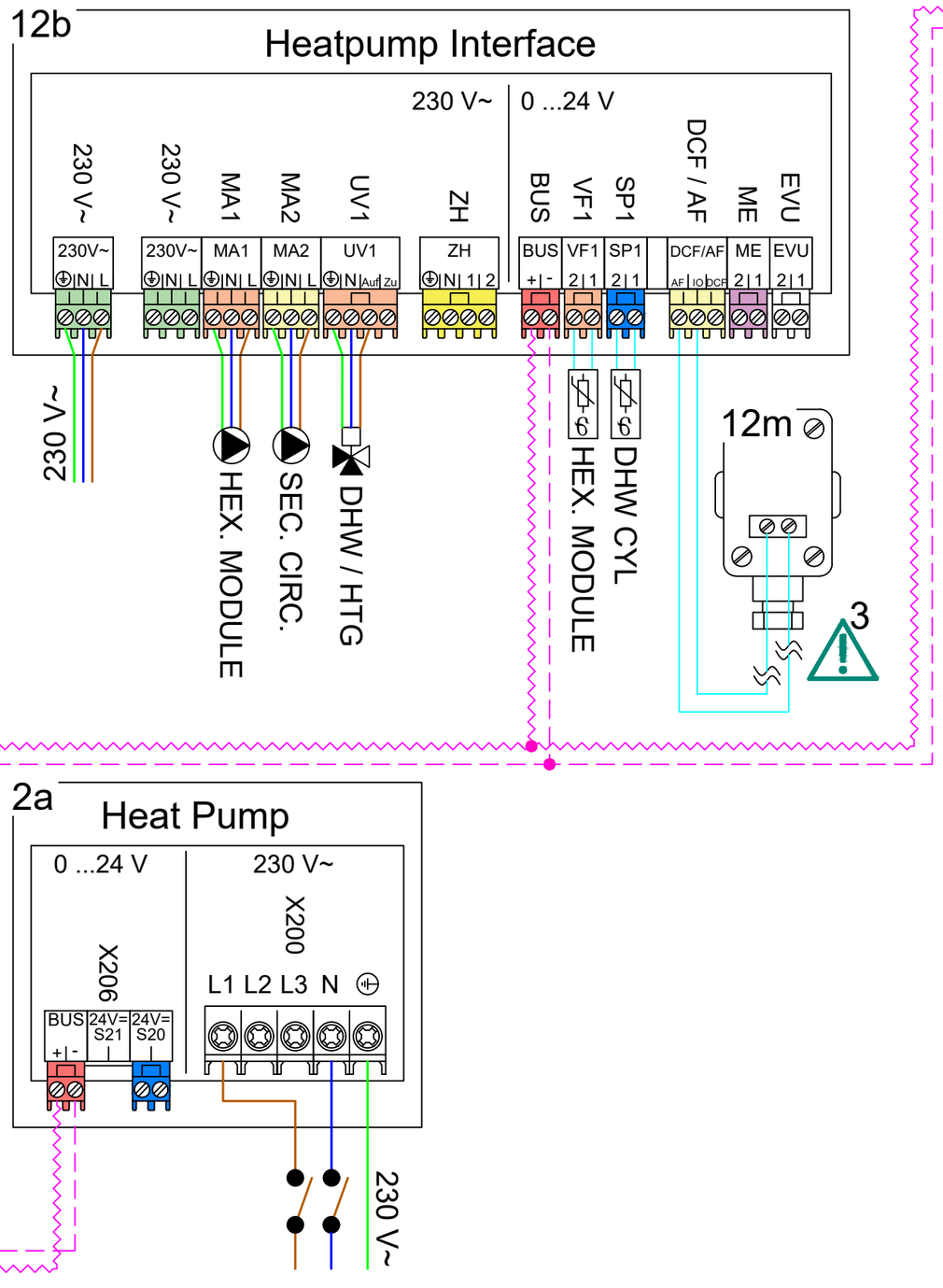
Drawn: A. WILLIS
16/06/2020 REV: A

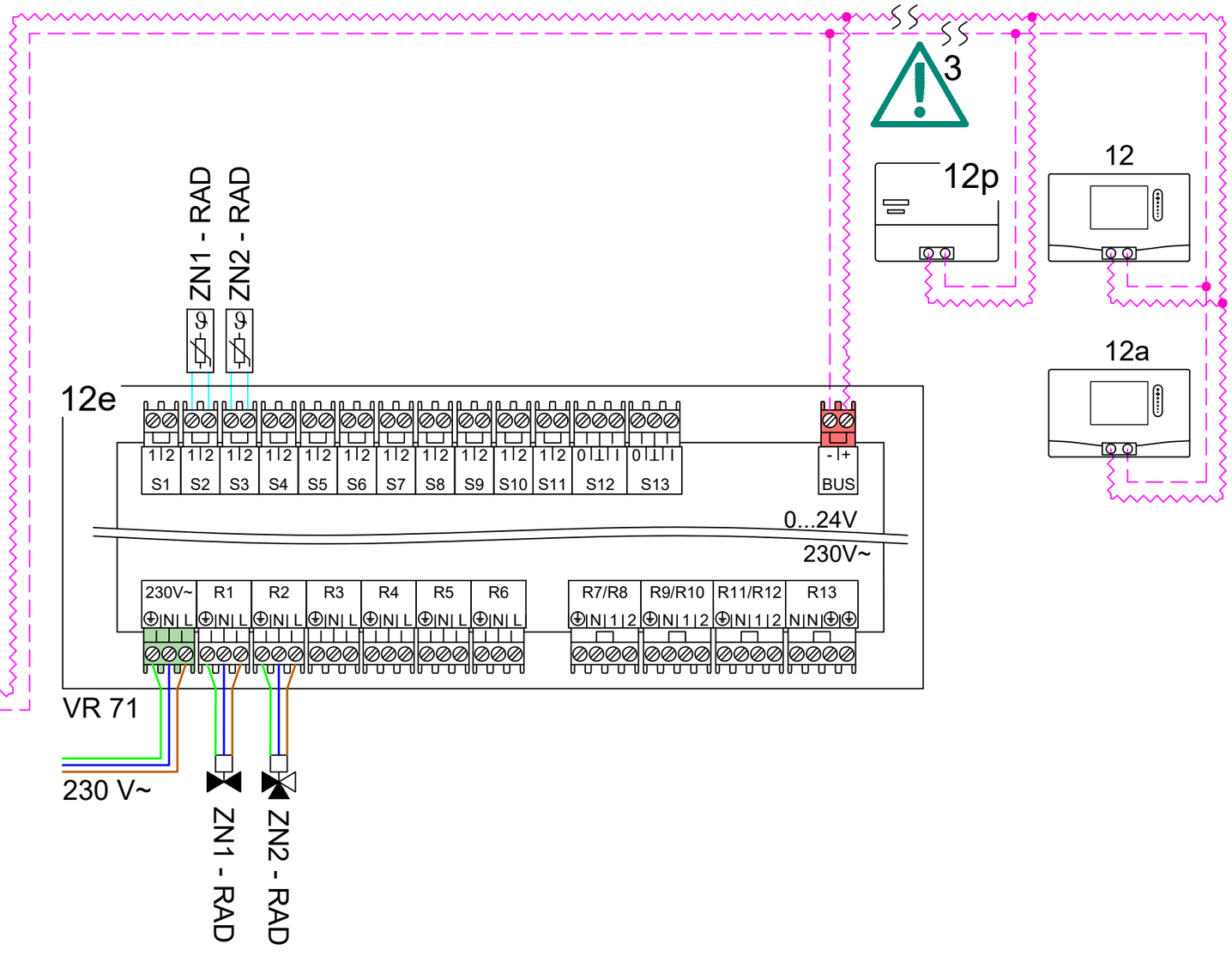
Appliance(s): aroTHERM Mono, Heat Ex. Module
Control(s): sensoCOMFORT, VR 92

HTG. Circuit(s): 2x Radiator - 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. For meter ready requirements (RHI)





Drawn: A. WILLIS
16/06/2020 REV: A

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

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

30140-1012

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sensoCOMFORT / VRC 700 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
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°
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

02	aroTHERM Monoblock
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
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
A	15/06/2020	Electric Meter & rotary isolation added to outdoor module.	2,E
		Immersion removed, secondary circulation pump added.	8,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

Drawn: A. WILLIS
16/06/2020 REV: A

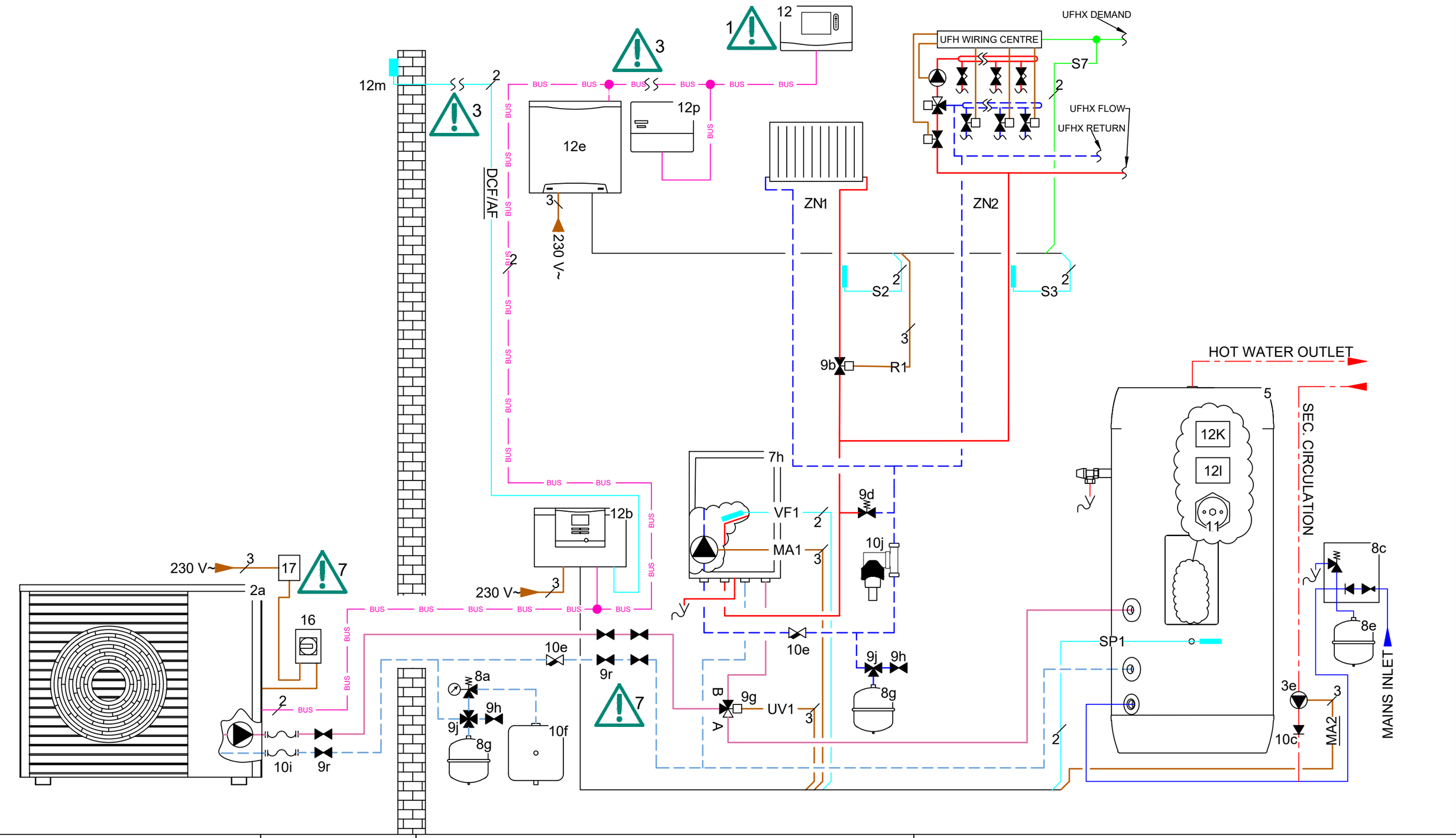
Appliance(s): aroTHERM Mono, Heat Ex. Module
Control(s): sensoCOMFORT, VR 92

HTG. Circuit(s): 2x Radiator - 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. For meter ready requirements (RHI)

Vaillant



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Drawn: A. WILLIS

16/06/2020 REV: -

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

Control(s): sensoCOMFORT

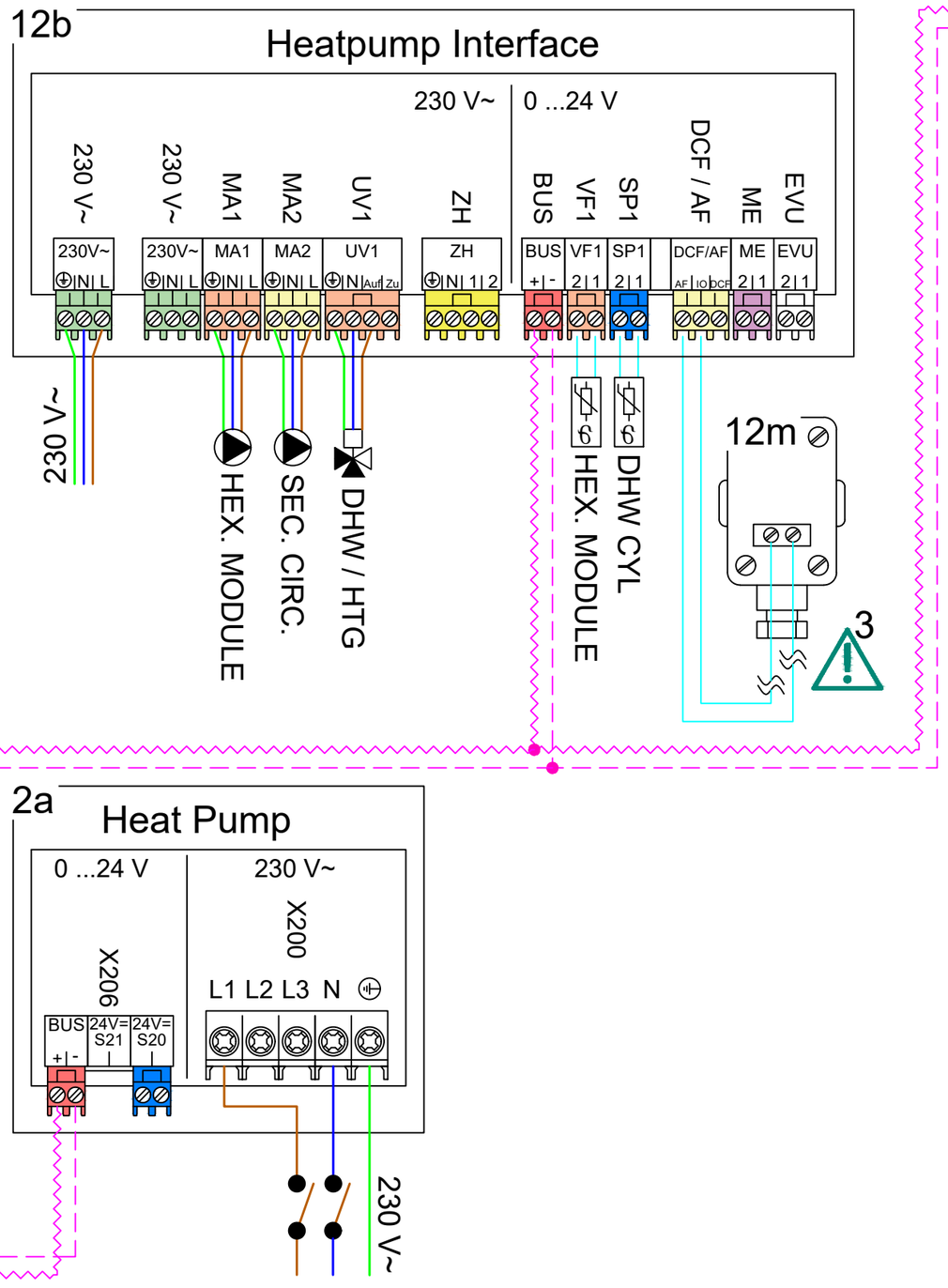
HTG. Circuit(s): 1x Radiator - Direct, 1x UFH(X) - 3rd Party,

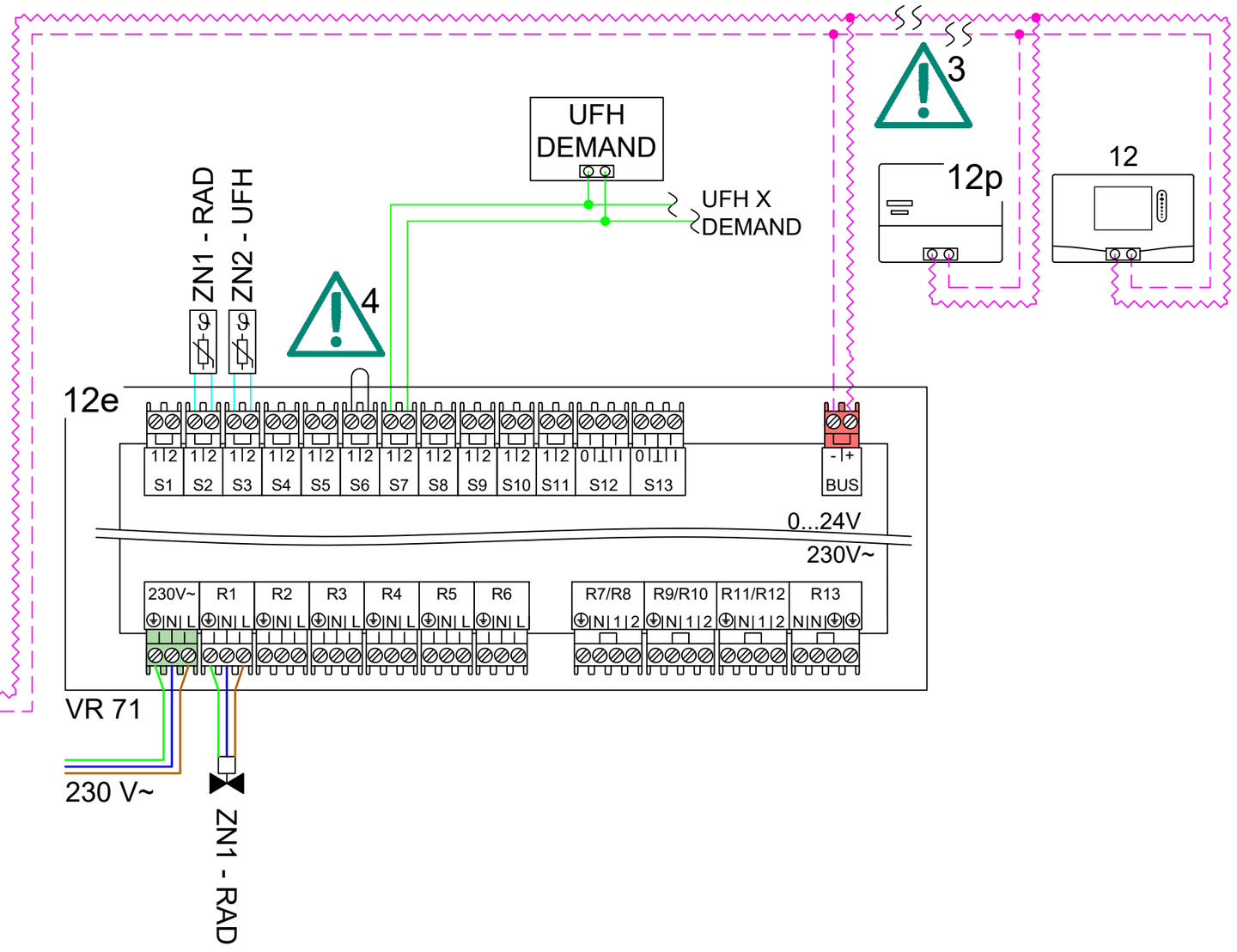
Domestic Hot Water: 1x Cylinder

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. For meter ready requirements (RHI)

Vaillant





Drawn: A. WILLIS
16/06/2020 REV: -

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

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

30141-1012

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sensoCOMFORT / VRC 700 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
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°
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

02	aroTHERM Monoblock
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
10i	Flexible Connection
10j	Magnetic Filter
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
A	15/06/2020	Electric Meter & rotary isolation added to outdoor module.	2,E
		Immersion removed, secondary circulation pump added.	8,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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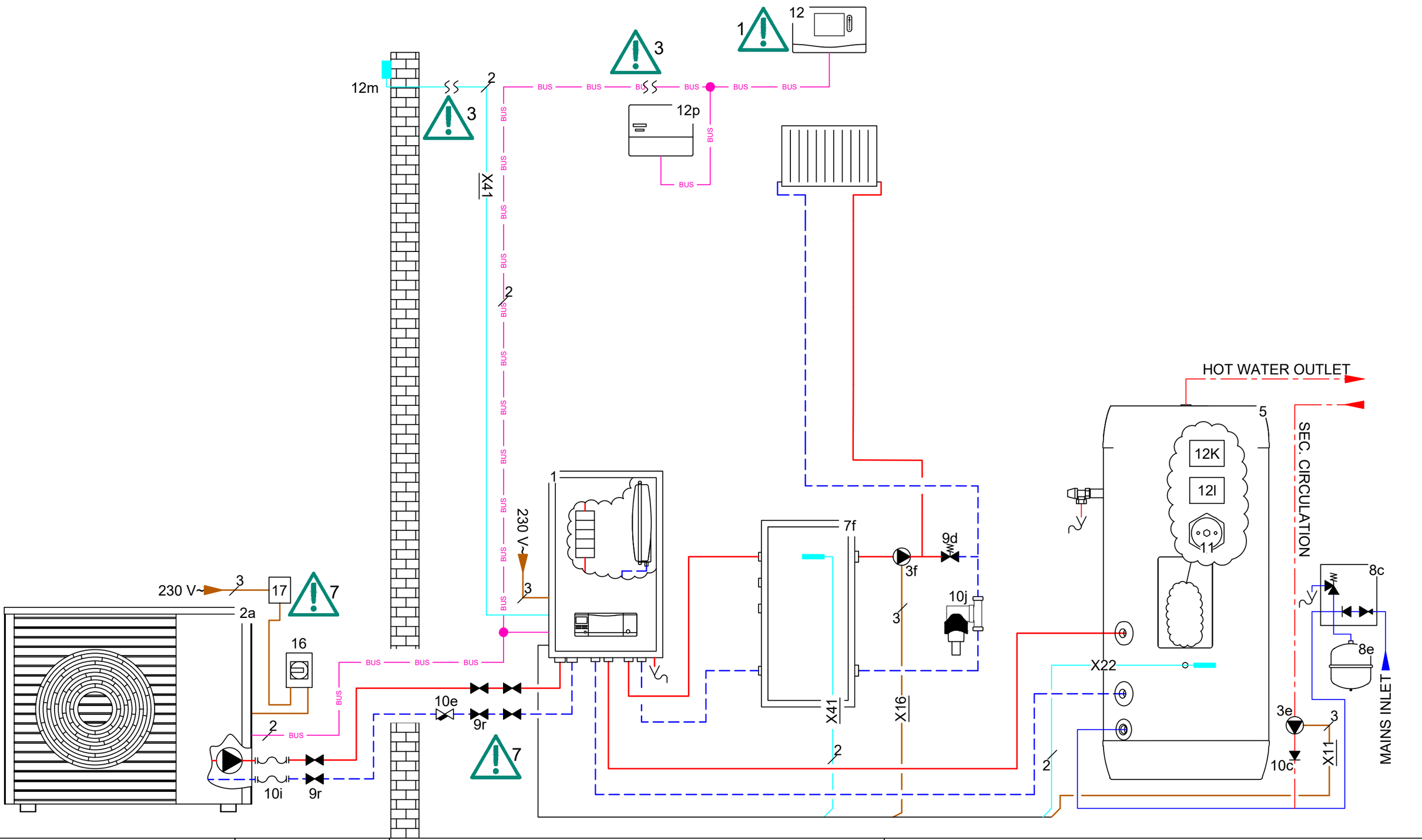
Drawn: A. WILLIS
16/06/2020 REV: -

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

HTG. Circuit(s): 1x Radiator - Direct, 1x UFH(X) - 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. For meter ready requirements (RHI)



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Drawn: A. WILLIS

16/06/2020 REV: A

Appliance(s): aroTHERM Mono, Hydraulic Station, Buffer (40L Decoupler)

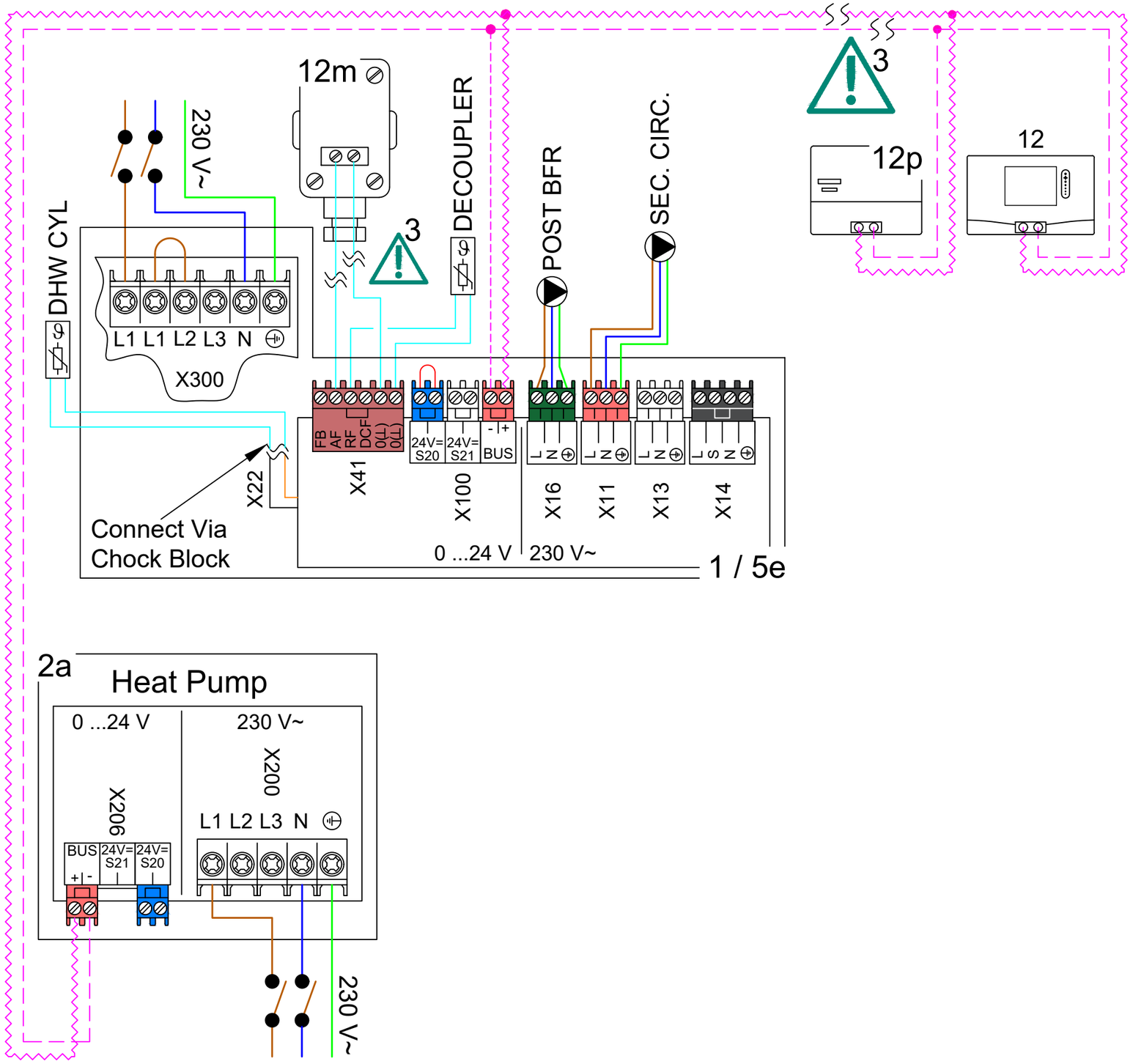
Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - 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. For meter ready requirements (RHI)



Drawn: A. WILLIS
16/06/2020 REV: A

Appliance(s): aroTHERM Mono, Hydraulic Station, Buffer (40L Decoupler)
Control(s): sensoCOMFORT

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

30160-1011

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sensoCOMFORT / VRC 700 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
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
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

01c	Hydraulic Station
02	aroTHERM Monoblock
03e	Secondary Circulation Pump
03f	General Pump
05	uniSTOR DHW Cylinder
07f	40L Decoupler
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
12p	Wireless Reciever
16	Rotary Isolator
17	Electric Meter

REV	DATE	DESCRIPTION	ZONE
A	16/06/2020	Electric Meter & rotary isolation added to outdoor module.	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

Drawn: A. WILLIS
16/06/2020 REV: A

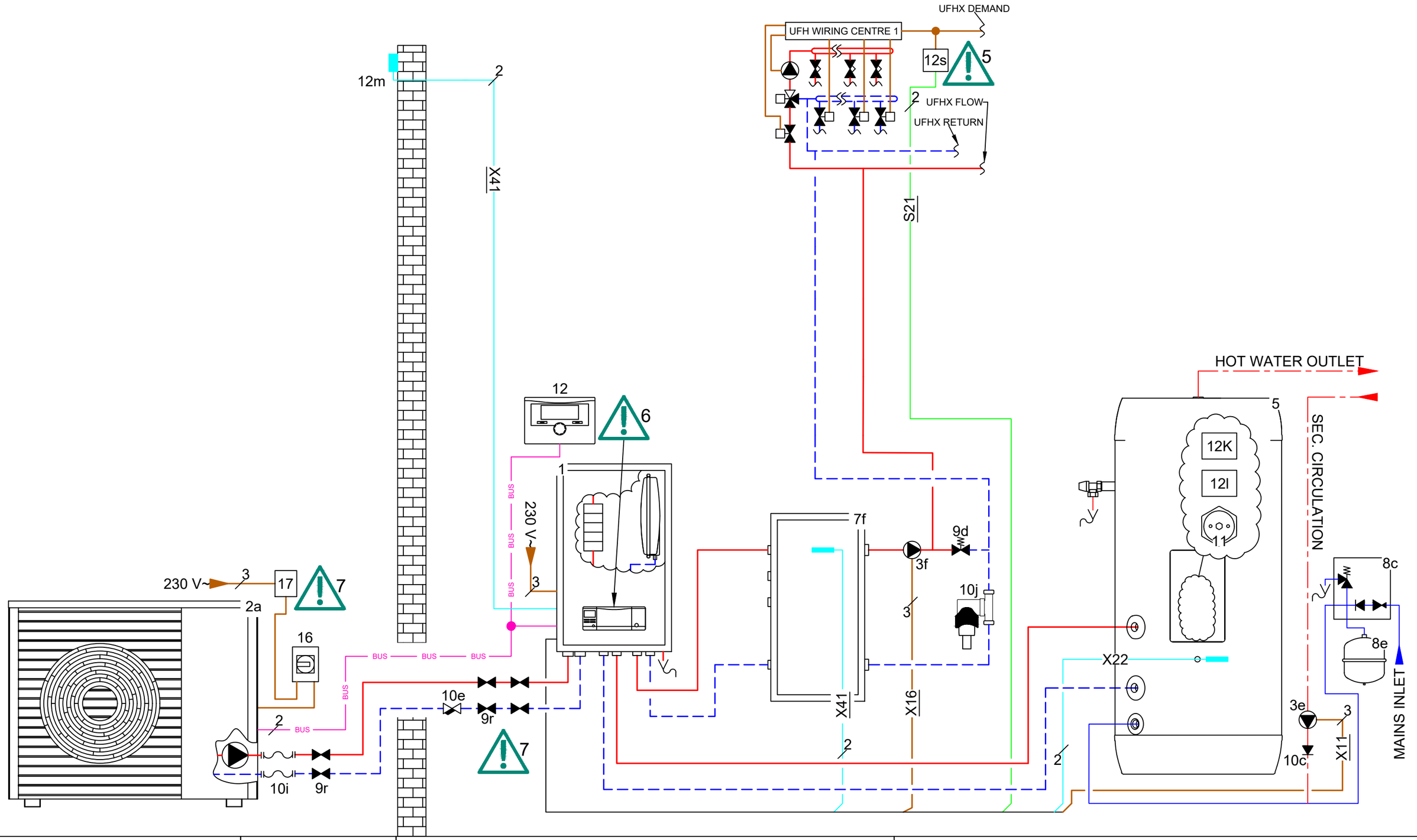
Appliance(s): aroTHERM Mono, Hydraulic Station, Buffer (40L Decoupler)
Control(s): sensoCOMFORT

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

30161-1011

-See page 2 for detailed wiring.

5. DPDT Relay (not supplied by Vaillant). See page 2 for detailed wiring.
6. Mount externally or to fascia
7. For meter ready requirements (RHI)



Drawn: A. WILLIS

16/06/2020 REV: A

Appliance(s): aroTHERM Mono, Hydraulic Station, Buffer (40L Decoupler)

Control(s): VRC 700

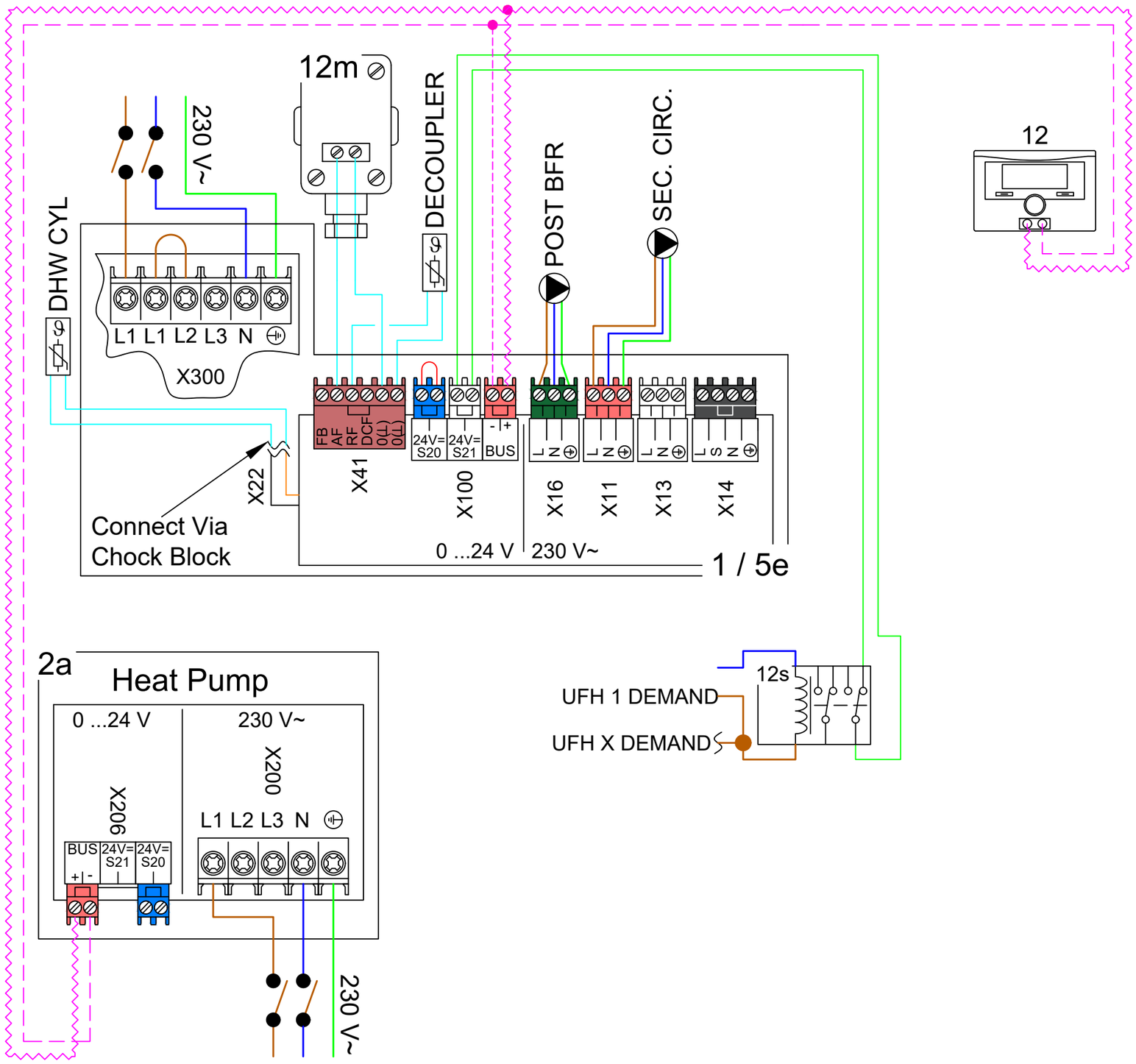
HTG. Circuit(s): 1x UFH(X) - 3rd Party, ,

Domestic Hot Water: 1x Cylinder

30161-1011

-See page 2 for detailed wiring.

5. DPDT Relay (not supplied by Vaillant). See page 2 for detailed wiring.
6. Mount externally or to fascia
7. For meter ready requirements (RHI)



Drawn: A. WILLIS

16/06/2020 REV: A

Appliance(s): aroTHERM Mono, Hydraulic Station, Buffer (40L Decoupler)

Control(s): VRC 700

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

Domestic Hot Water: 1x Cylinder

30161-1011

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sensoCOMFORT / VRC 700 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
System	
Adaptive heat. curve	No
Configure heat. circ.	Zone1
Hybrid manager	Bivalence pt
Heat. bivalence point	-20°
DHW bivalence point	-20°
Energy supplier	Heat. off
Auxiliary heater for	DHW+ heat.
System diagram configuration	
System diagram	10
Additional module	
Multi-function.output2	Circ. pump
Aux. heater output	Stage3
HEATING1	
Type of circuit	Heating
Max limit outs.temp.	30°
Heating curve	**Site specific
Minimum temperature	15°
Maximum temperature	45°
Auto Off mode	Eco
Room temp. mod.	None
Zone1	
Zone activated:	Yes
Zone assignment:	Without
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 Monoblock
03f	General Pump
05e	uniTOWER
07f	40L Decoupler
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
A	16/06/2020	Electric Meter & rotary isolation added to outdoor module.	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

Drawn: A. WILLIS
16/06/2020 REV: A

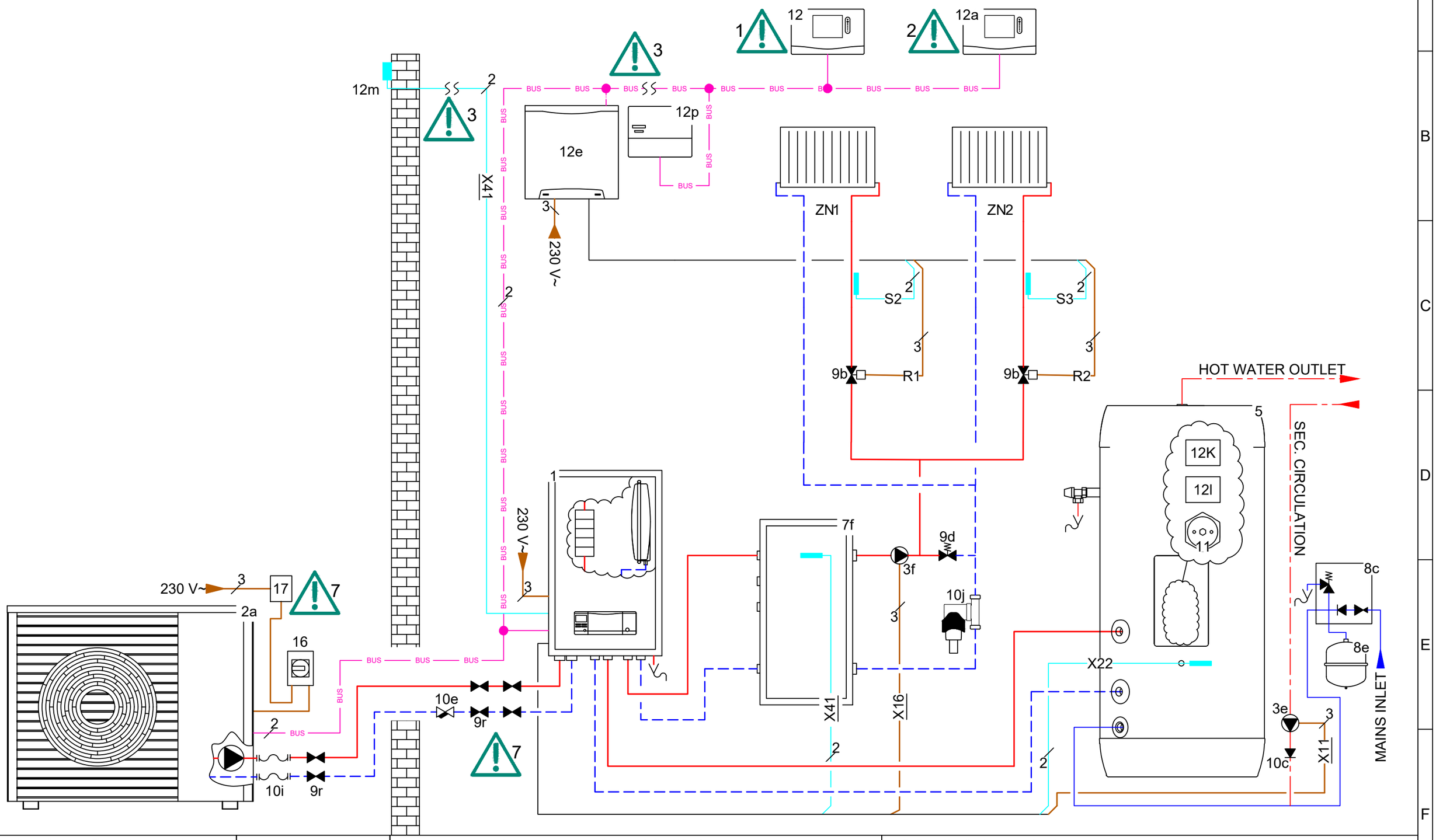
Appliance(s): aroTHERM Mono, Hydraulic Station, Buffer (40L Decoupler)
Control(s): VRC 700

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. For meter ready requirements (RHI)

Vaillant



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Drawn: A. WILLIS

16/06/2020 REV: A

Appliance(s): aroTHERM Mono, Hydraulic Station, Buffer (40L Decoupler)

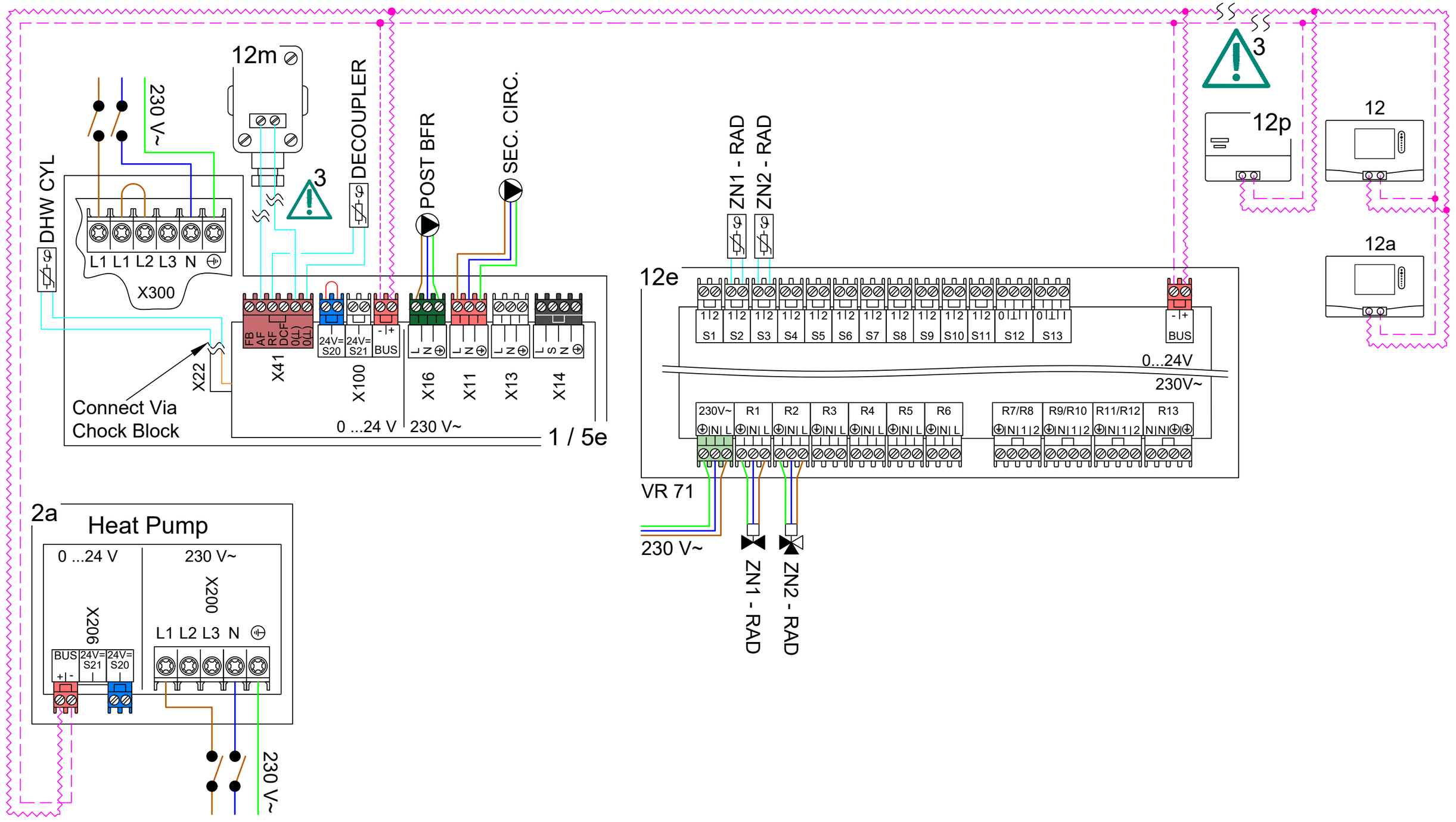
Control(s): sensoCOMFORT

HTG. Circuit(s): 2x Radiator - 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. For meter ready requirements (RHI)



Drawn: A. WILLIS
16/06/2020 REV: A

Appliance(s): aroTHERM Mono, Hydraulic Station, Buffer (40L Decoupler)
Control(s): sensoCOMFORT

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

30170-1012

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sensoCOMFORT / VRC 700 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
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
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

Setting	Value
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 Monoblock
03e	Secondary Circulation Pump
03f	General Pump
05	uniSTOR DHW Cylinder
07f	40L Decoupler
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
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
A	16/06/2020	Electric Meter & rotary isolation added to outdoor module.	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

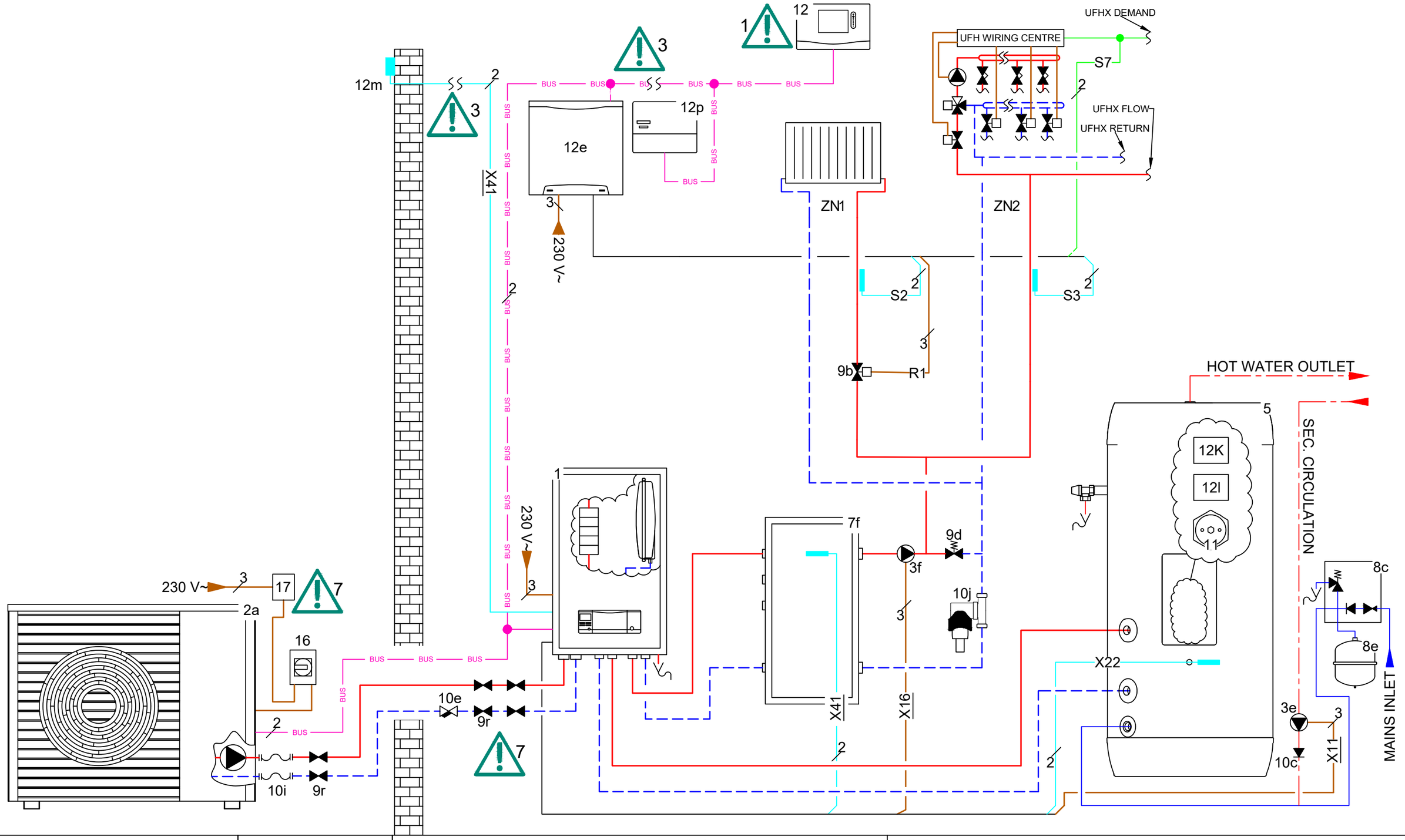
Drawn: A. WILLIS
16/06/2020 REV: A

Appliance(s): aroTHERM Mono, Hydraulic Station, Buffer (40L Decoupler)
Control(s): sensoCOMFORT

HTG. Circuit(s): 2x Radiator - 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. For meter ready requirements (RHI)



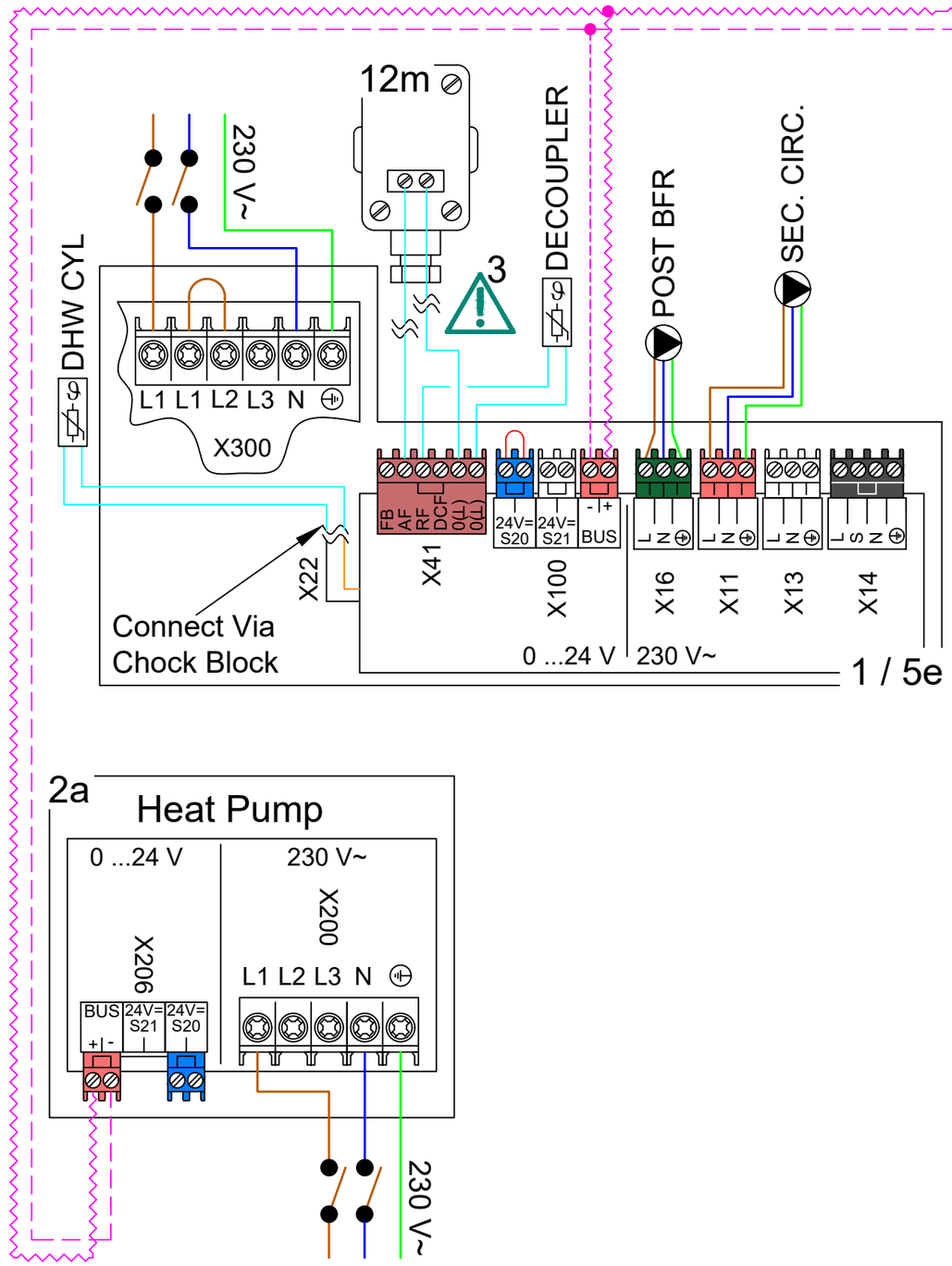
Drawn: A. WILLIS
16/06/2020 REV: A

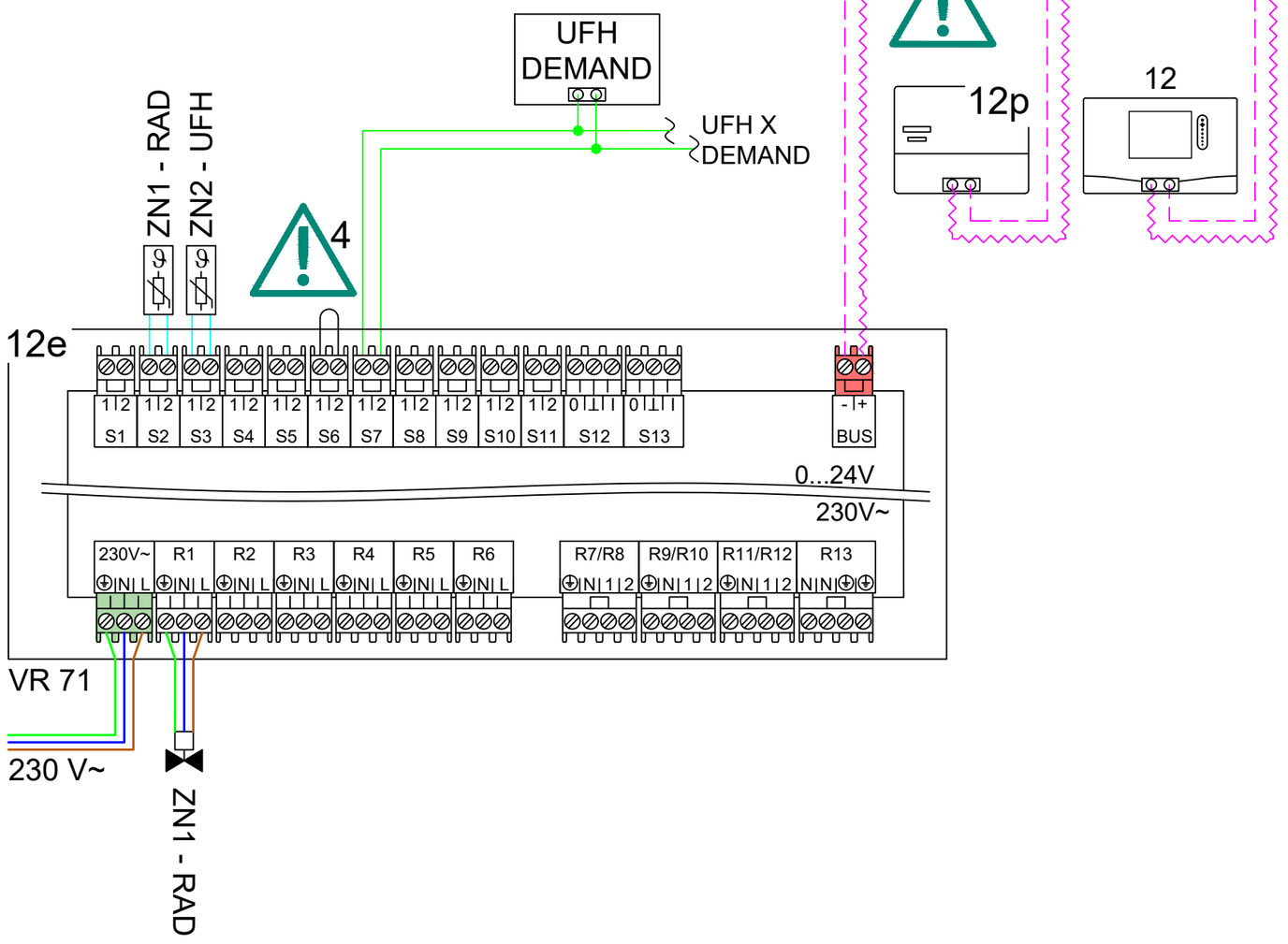
Appliance(s): aroTHERM Mono, Hydraulic Station, Buffer (40L Decoupler)
Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - 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. For meter ready requirements (RHI)





Drawn: A. WILLIS
16/06/2020 REV: A

Appliance(s): aroTHERM Mono, Hydraulic Station, Buffer (40L Decoupler)
Control(s): sensoCOMFORT

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

30171-1012

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sensoCOMFORT / VRC 700 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
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 Monoblock
03e	Secondary Circulation Pump
03f	General Pump
05	uniSTOR DHW Cylinder
07f	40L Decoupler
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
A	16/06/2020	Electric Meter & rotary isolation added to outdoor module.	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

Drawn: A. WILLIS

16/06/2020 REV: A

Appliance(s): aroTHERM Mono, Hydraulic Station, Buffer (40L Decoupler)

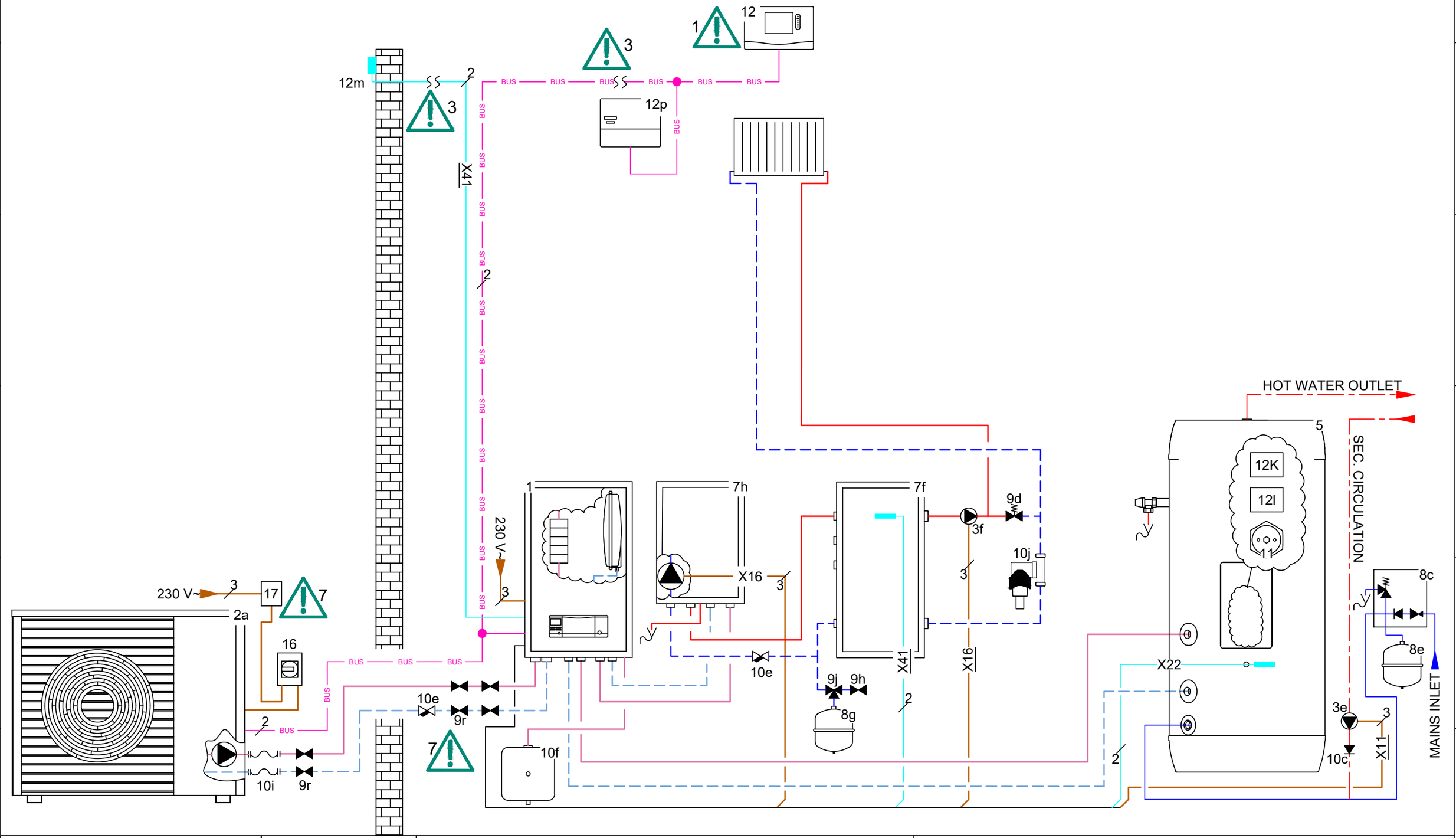
Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Direct, 1x UFH(X) - 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. For meter ready requirements (RHI)



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Drawn: A. WILLIS

16/06/2020 REV: A

Appliance(s): aroTHERM Mono, Hydraulic Station, Heat Ex. Module, Buffer (40L Decoupler)

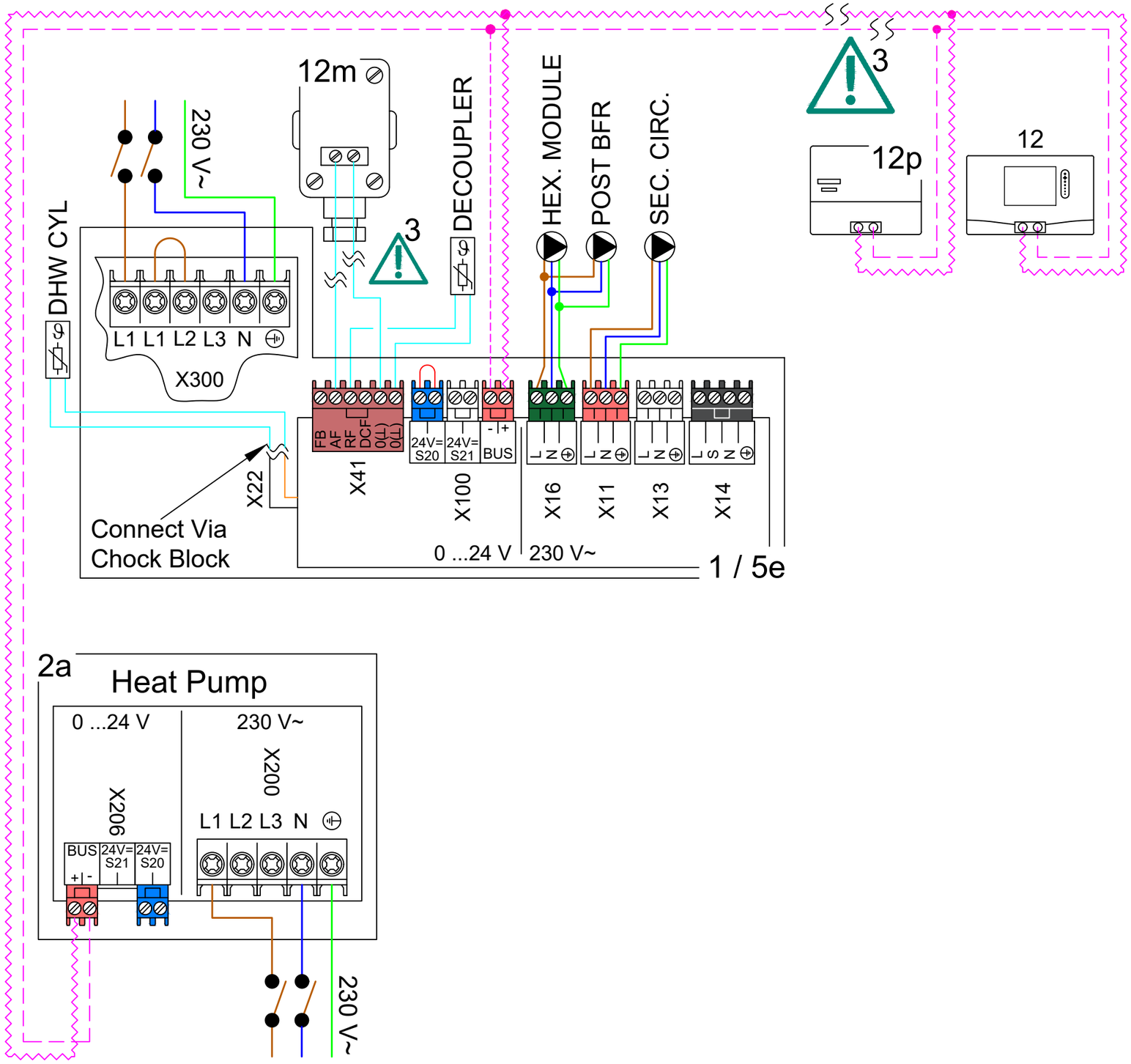
Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - 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. For meter ready requirements (RHI)



Drawn: A. WILLIS
16/06/2020 REV: A

Appliance(s): aroTHERM Mono, Hydraulic Station, Heat Ex. Module, Buffer (40L Decoupler)
Control(s): sensoCOMFORT

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

30200-1011

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sensoCOMFORT / VRC 700 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
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
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

01c	Hydraulic Station
02	aroTHERM Monoblock
03e	Secondary Circulation Pump
03f	General Pump
05	uniSTOR DHW Cylinder
07f	40L Decoupler
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
12p	Wireless Reciever
16	Rotary Isolator
17	Electric Meter

REV	DATE	DESCRIPTION	ZONE
A	16/06/2020	Electric Meter & rotary isolation added to outdoor module.	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

Drawn: A. WILLIS
16/06/2020 REV: A

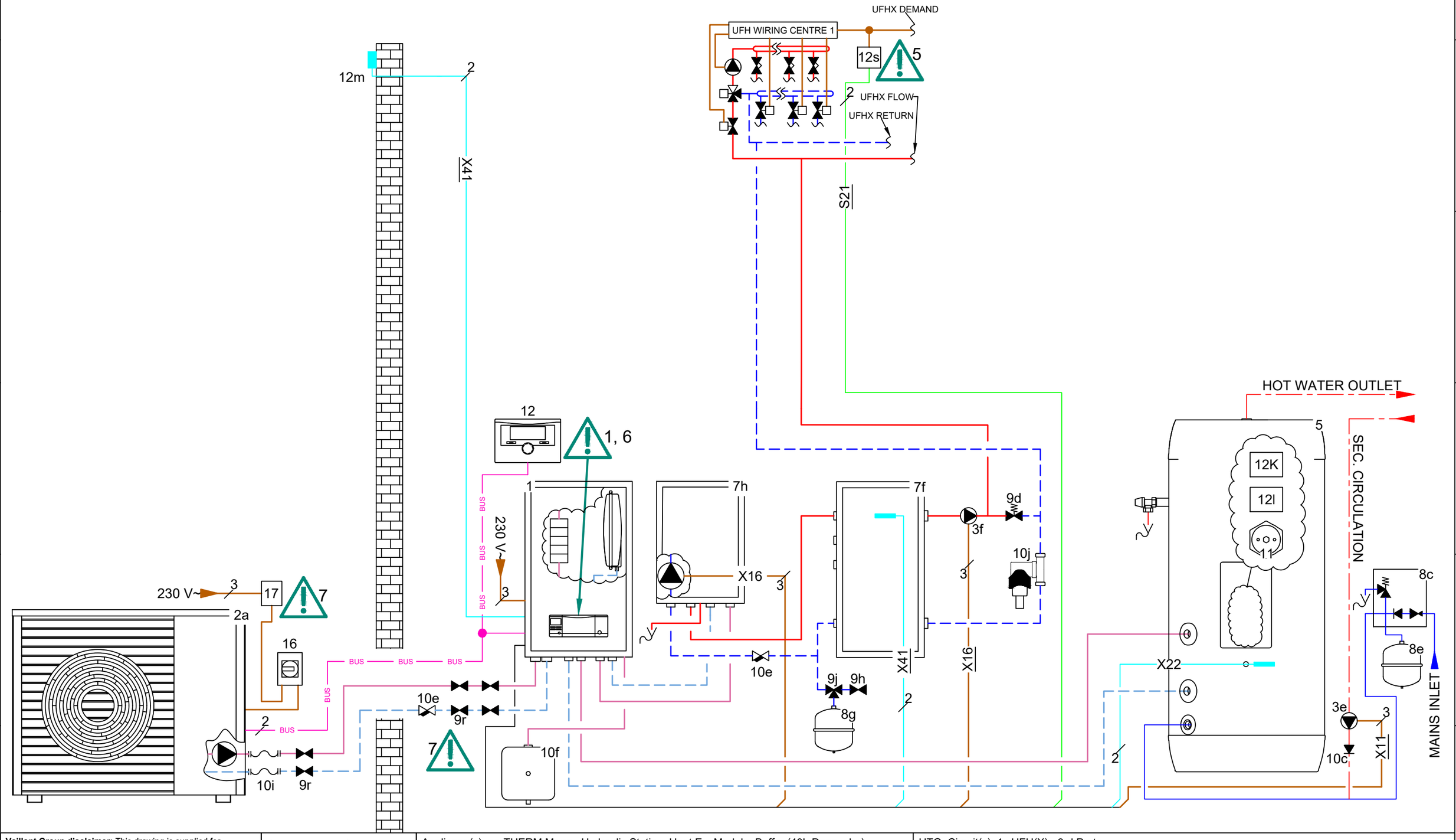
Appliance(s): aroTHERM Mono, Hydraulic Station, Heat Ex. Module, Buffer (40L Decoupler)
Control(s): sensoCOMFORT

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

30201-1011

-See page 2 for detailed wiring.

5. DPDT Relay (not supplied by Vaillant). See page 2 for detailed wiring.
6. Mount externally or to fascia
7. For meter ready requirements (RHI)



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Drawn: A. WILLIS

16/06/2020 REV: A

Appliance(s): aroTHERM Mono, Hydraulic Station, Heat Ex. Module, Buffer (40L Decoupler)

Control(s): VRC 700

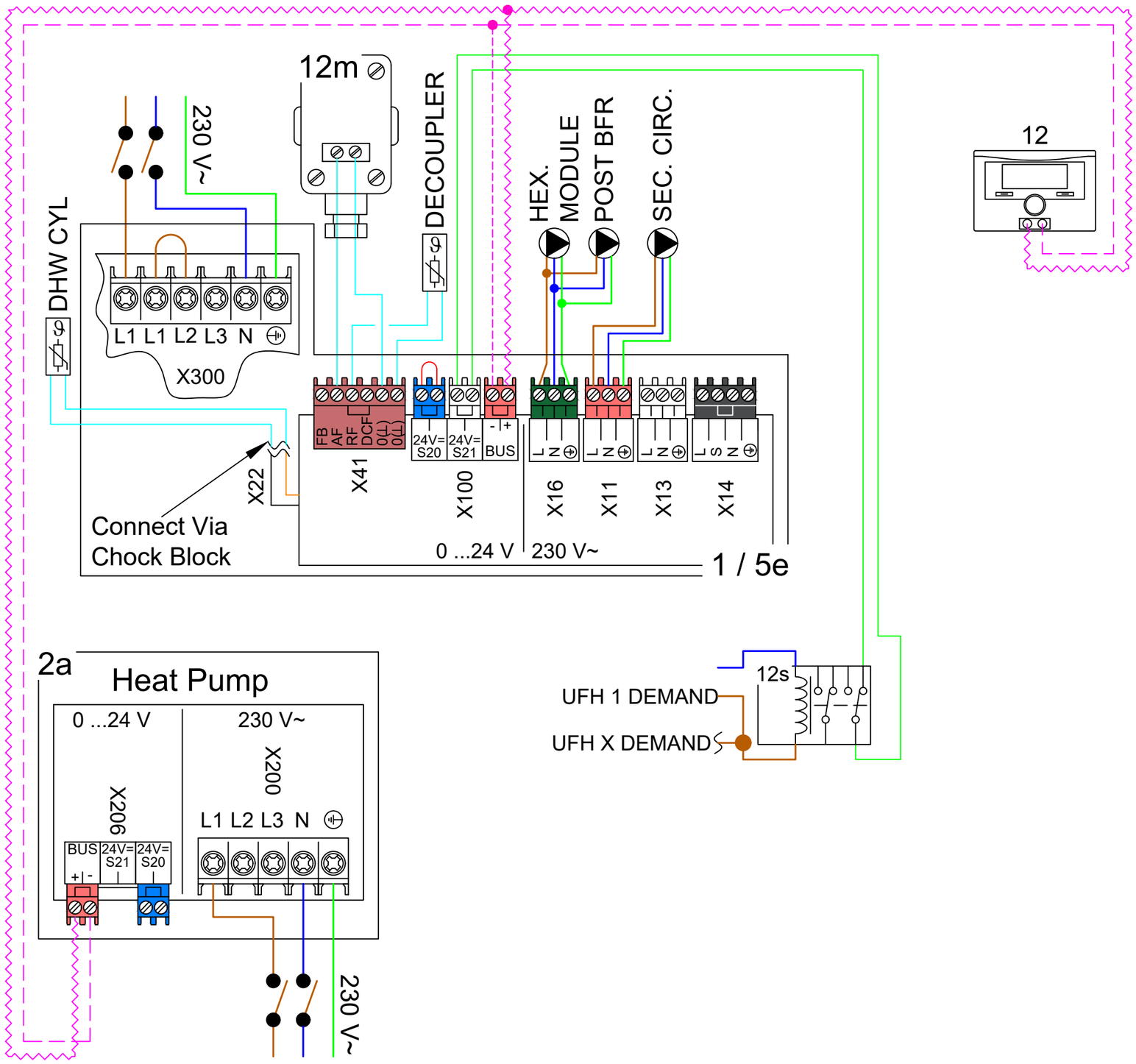
HTG. Circuit(s): 1x UFH(X) - 3rd Party, ,

Domestic Hot Water: 1x Cylinder

30201-1011

-See page 2 for detailed wiring.

5. DPDT Relay (not supplied by Vaillant). See page 2 for detailed wiring.
6. Mount externally or to fascia
7. For meter ready requirements (RHI)



Drawn: A. WILLIS

16/06/2020 REV: A

Appliance(s): aroTHERM Mono, Hydraulic Station, Heat Ex. Module, Buffer (40L Decoupler)

Control(s): VRC 700

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

Domestic Hot Water: 1x Cylinder

30201-1011

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sensoCOMFORT / VRC 700 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
System	
Adaptive heat. curve	No
Configure heat. circ.	Zone1
Hybrid manager	Bivalence pt
Heat. bivalence point	-20°
DHW bivalence point	-20°
Energy supplier	Heat. off
Auxiliary heater for	DHW+ heat.
System diagram configuration	
System diagram	10
Additional module	
Multi-function.output2	Circ. pump
Aux. heater output	Stage3
HEATING1	
Type of circuit	Heating
Max limit outs.temp.	30°
Heating curve	**Site specific
Minimum temperature	15°
Maximum temperature	45°
Auto Off mode	Eco
Room temp. mod.	None
Zone1	
Zone activated:	Yes
Zone assignment:	Without
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

01c	Hydraulic Station
02	aroTHERM Monoblock
03e	Secondary Circulation Pump
03f	General Pump
05	uniSTOR DHW Cylinder
07f	40L Decoupler
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	System Controller / Thermostat - VRC 700
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	ZONE
A	16/06/2020	Electric Meter & rotary isolation added to outdoor module.	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 (3)

Drawn: A. WILLIS
16/06/2020 REV: A

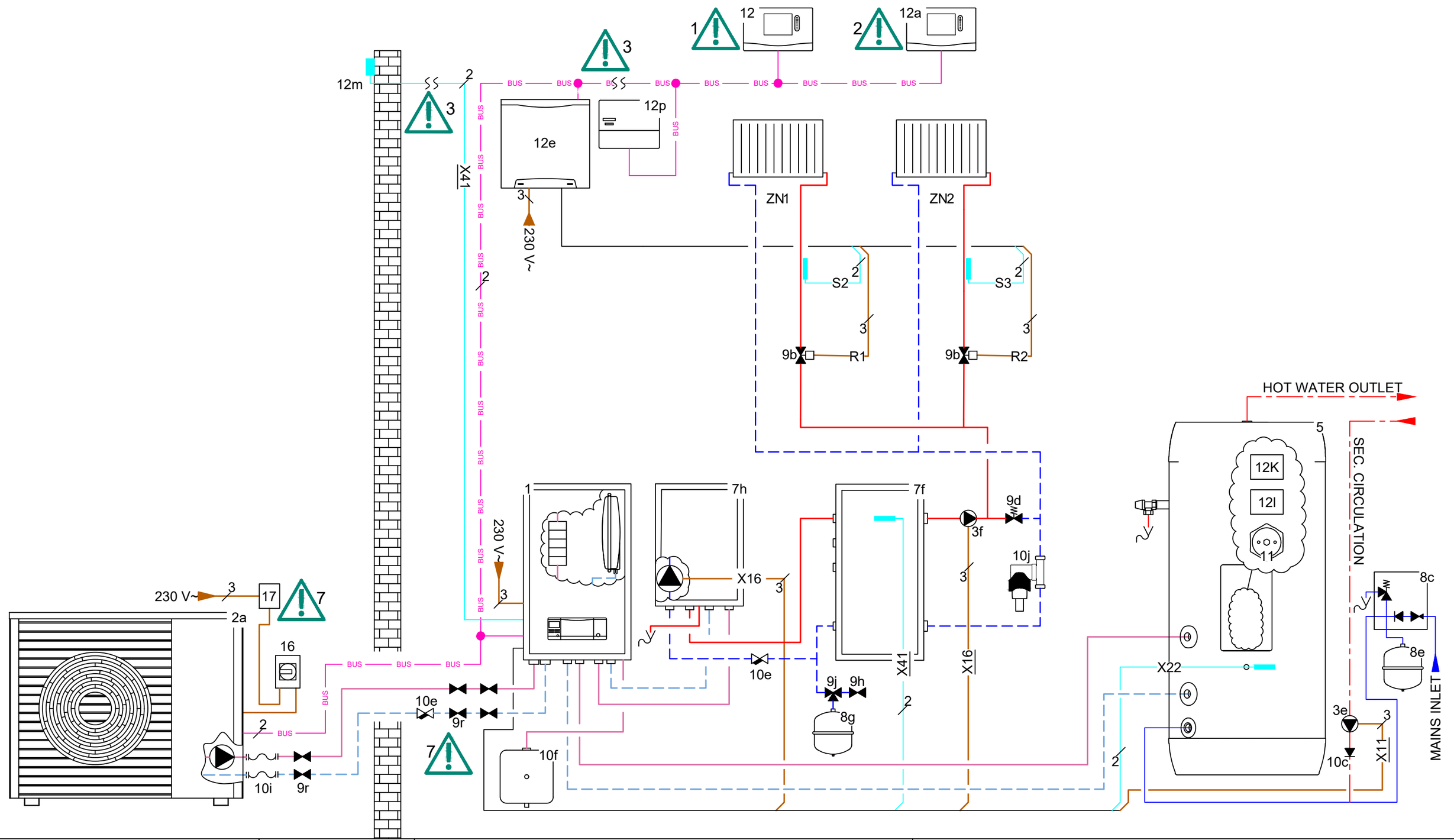
Appliance(s): aroTHERM Mono, Hydraulic Station, Heat Ex. Module, Buffer (40L Decoupler)
Control(s): VRC 700

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. For meter ready requirements (RHI)

Vaillant



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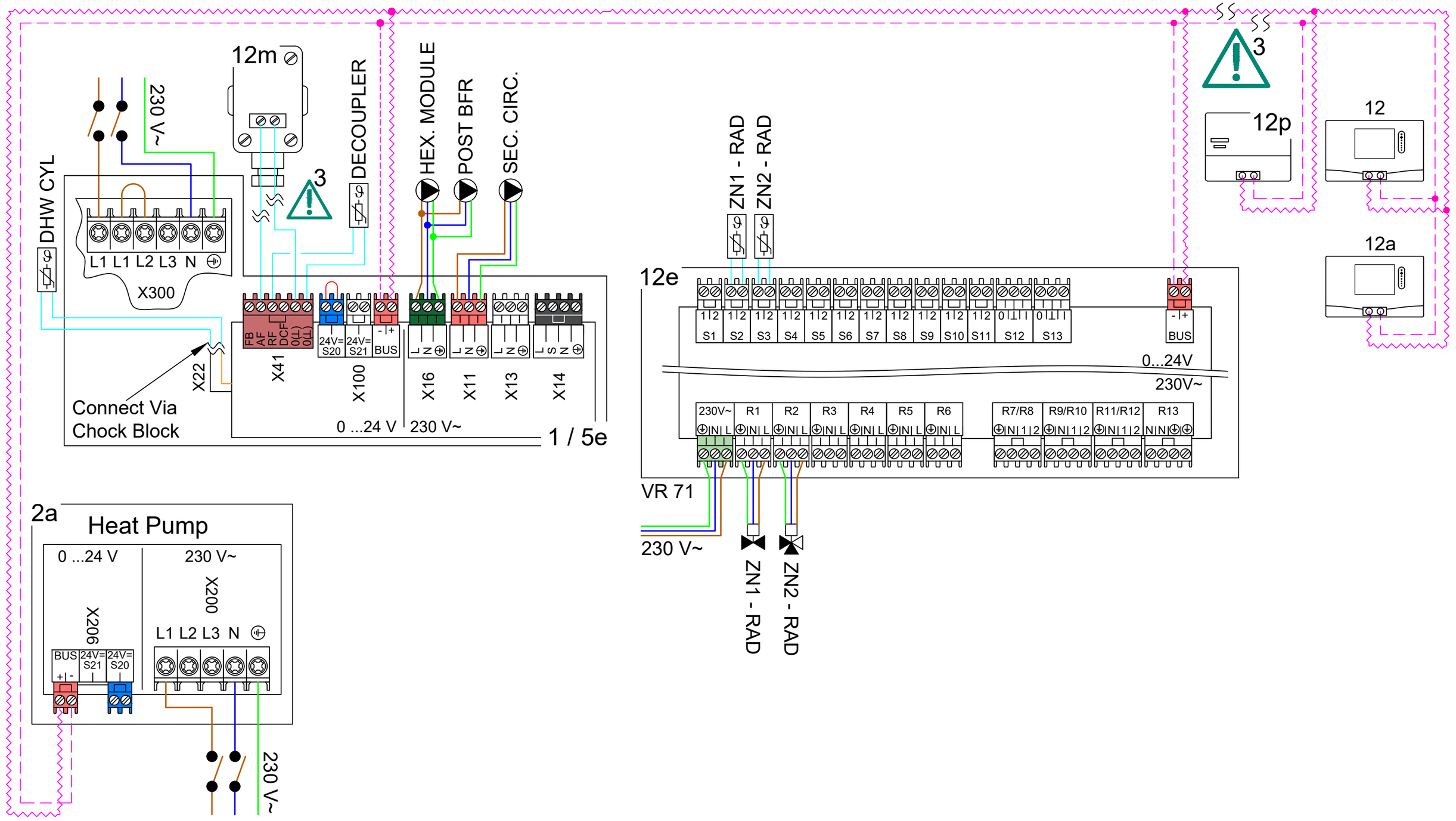
Drawn: A. WILLIS
16/06/2020 REV: A

Appliance(s): aroTHERM Mono, Hydraulic Station, Heat Ex. Module, Buffer (40L Decoupler)
Control(s): sensoCOMFORT

HTG. Circuit(s): 2x Radiator - Direct, ,
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. For meter ready requirements (RHI)



Drawn: A. WILLIS
16/06/2020 REV: A

Appliance(s): aroTHERM Mono, Hydraulic Station, Heat Ex. Module, Buffer (40L Decoupler)
Control(s): sensoCOMFORT

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

30210-1012

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sensoCOMFORT / VRC 700 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
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
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

Setting	Value
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 Monoblock
03e	Secondary Circulation Pump
03f	General Pump
05	uniSTOR DHW Cylinder
07f	40L Decoupler
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
A	16/06/2020	Electric Meter & rotary isolation added to outdoor module.	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

Drawn: A. WILLIS

16/06/2020 REV: A

Appliance(s): aroTHERM Mono, Hydraulic Station, Heat Ex. Module, Buffer (40L Decoupler)

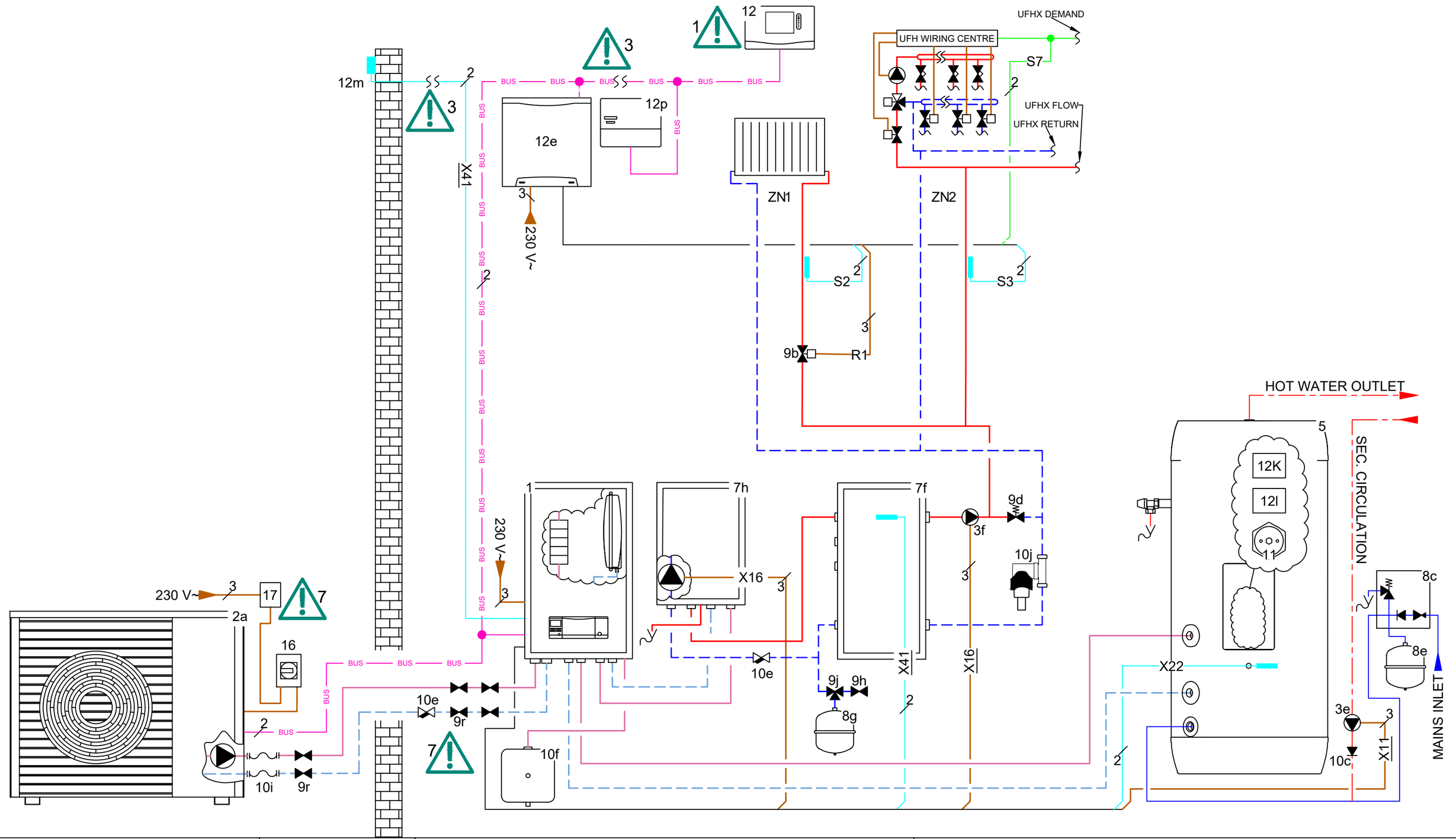
Control(s): sensoCOMFORT

HTG. Circuit(s): 2x Radiator - 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. For meter ready requirements (RHI)



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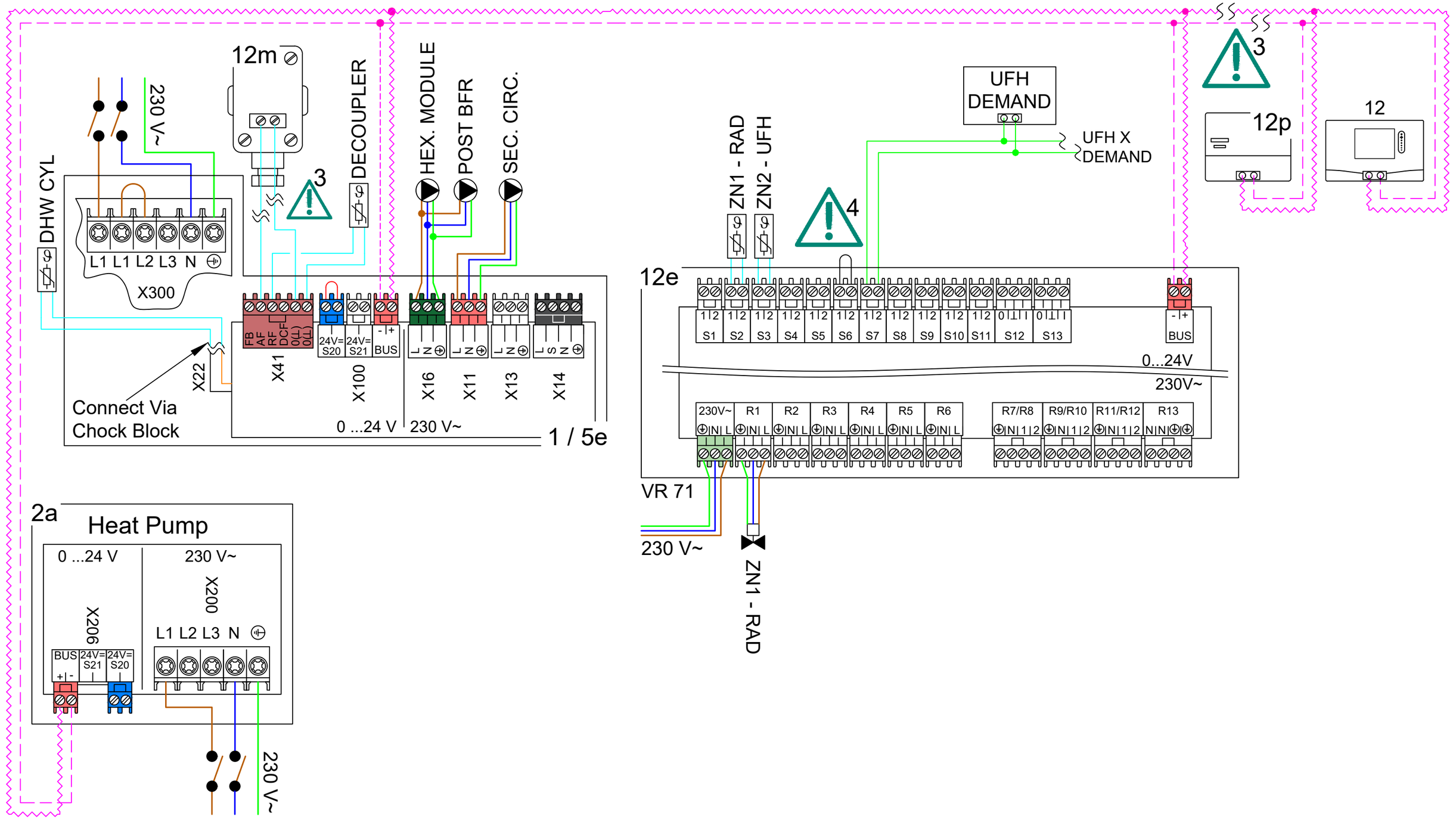
Drawn: A. WILLIS
16/06/2020 REV: A

Appliance(s): aroTHERM Mono, Hydraulic Station, Heat Ex. Module, Buffer (40L Decoupler)
Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Direct, 1x UFH(X) - 3rd Party,
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. For meter ready requirements (RHI)



Drawn: A. WILLIS
16/06/2020 REV: A

Appliance(s): aroTHERM Mono, Hydraulic Station, Heat Ex. Module, Buffer (40L Decoupler)
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 700 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
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

01c	Hydraulic Station
02	aroTHERM Monoblock
03e	Secondary Circulation Pump
03f	General Pump
05	uniSTOR DHW Cylinder
07f	40L Decoupler
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
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
A	16/06/2020	Electric Meter & rotary isolation added to outdoor module.	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

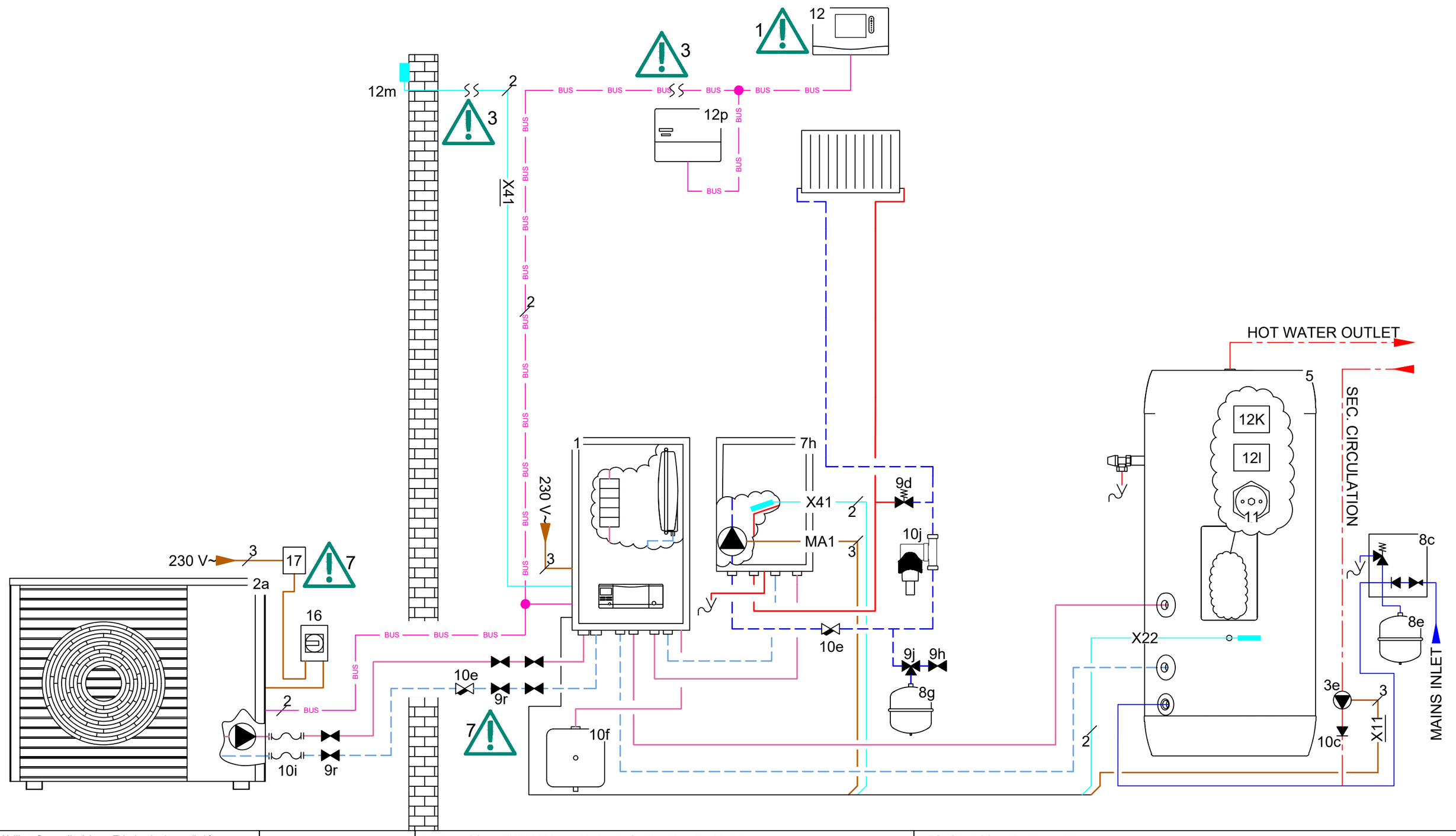
Drawn: A. WILLIS
16/06/2020 REV: A

Appliance(s): aroTHERM Mono, Hydraulic Station, Heat Ex. Module, Buffer (40L Decoupler)
Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - 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. For meter ready requirements (RHI)



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Drawn: A. WILLIS

16/06/2020 REV: A

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

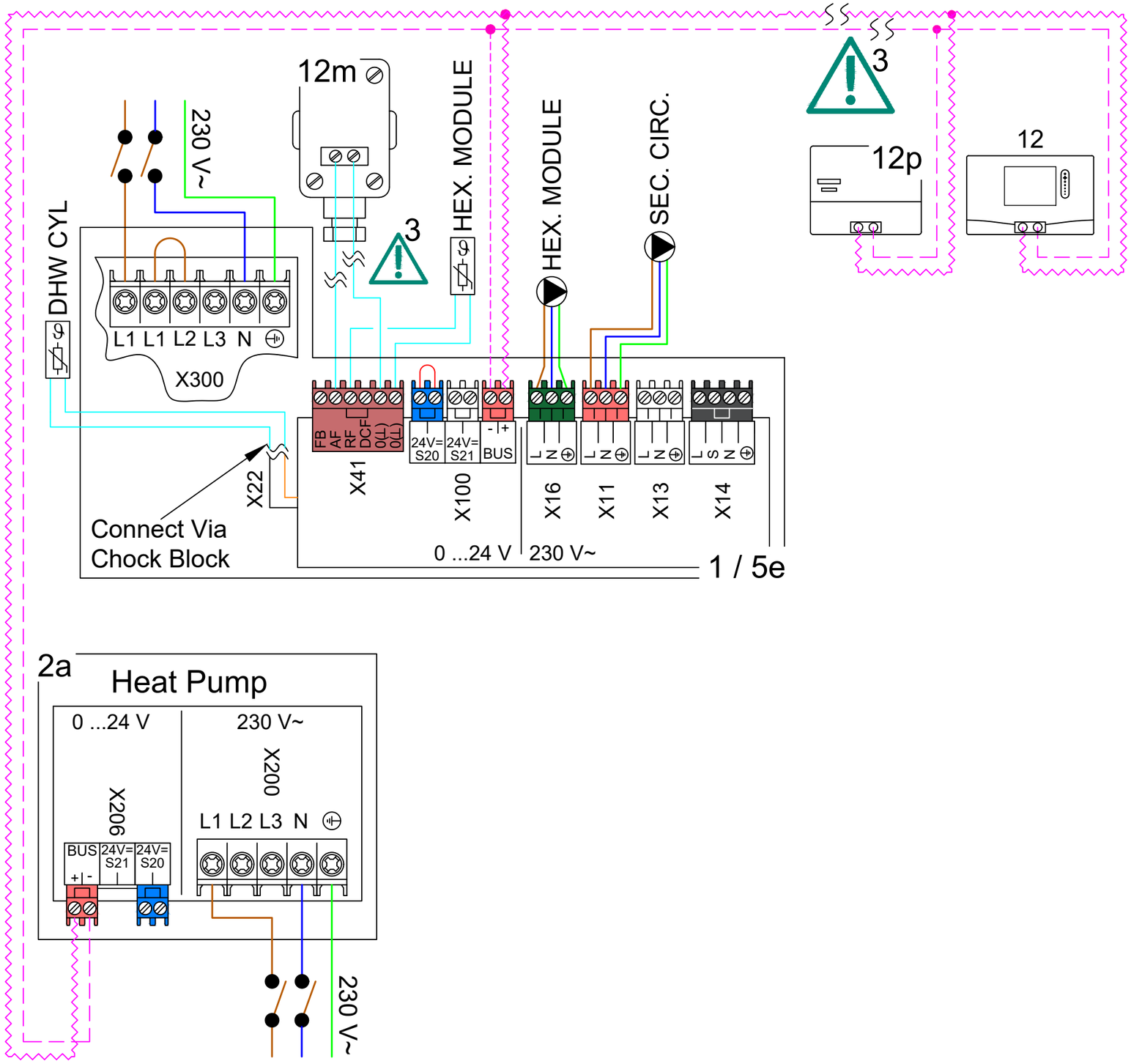
Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - 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. For meter ready requirements (RHI)



Drawn: A. WILLIS
16/06/2020 REV: A

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

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

30180-1011

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sensoCOMFORT / VRC 700 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
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
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

01c	Hydraulic Station
02	aroTHERM Monoblock
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
12p	Wireless Reciever
16	Rotary Isolator
17	Electric Meter

REV	DATE	DESCRIPTION	ZONE
A	16/06/2020	Electric Meter & rotary isolation added to outdoor module.	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

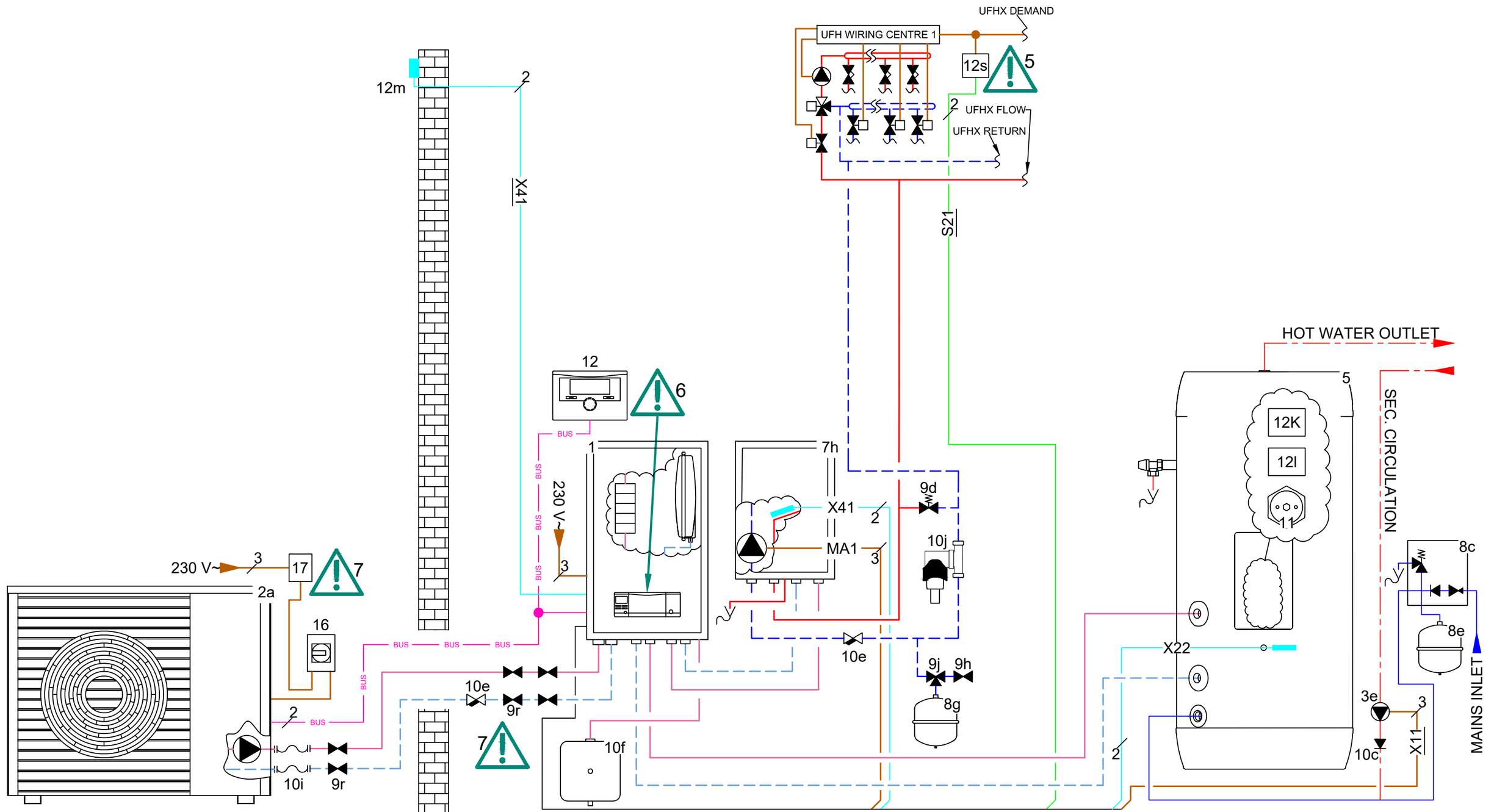
Drawn: A. WILLIS
16/06/2020 REV: A

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

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

30181-1011

-See page 2 for detailed wiring.
5. DPDT Relay (not supplied by Vaillant). See page 2 for detailed wiring.
6. Mount externally or to fascia
7. For meter ready requirements (RHI)



Drawn: A. WILLIS

16/06/2020 REV: A

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

Control(s): VRC 700

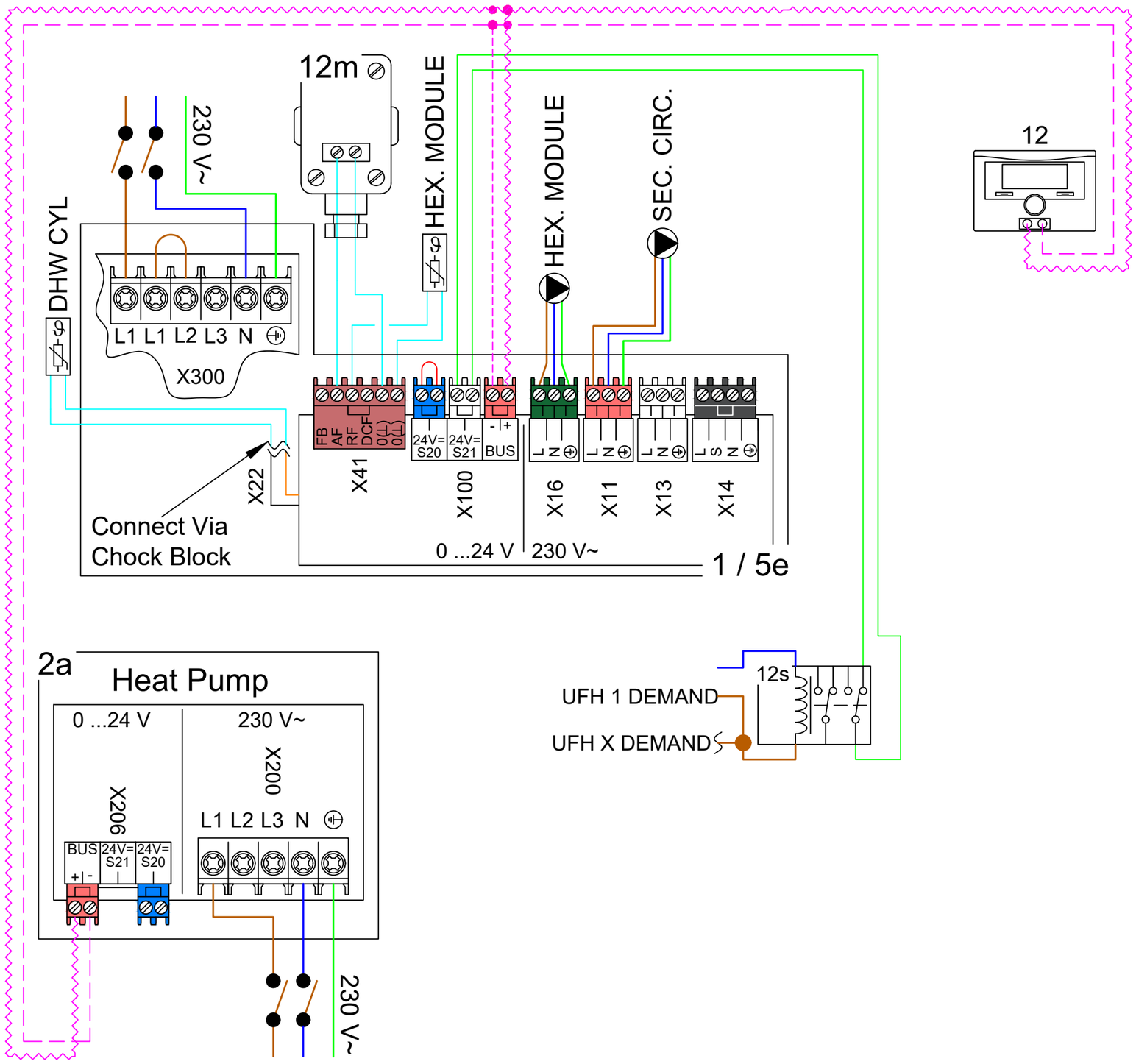
HTG. Circuit(s): 1x UFH(X) - 3rd Party, ,

Domestic Hot Water: 1x Cylinder

30181-1011

-See page 2 for detailed wiring.

5. DPDT Relay (not supplied by Vaillant). See page 2 for detailed wiring.
6. Mount externally or to fascia
7. For meter ready requirements (RHI)



Drawn: A. WILLIS

16/06/2020 REV: A

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

Control(s): VRC 700

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

Domestic Hot Water: 1x Cylinder

30181-1011

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sensoCOMFORT / VRC 700 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
System	
Adaptive heat. curve	No
Configure heat. circ.	Zone1
Hybrid manager	Bivalence pt
Heat. bivalence point	-20°
DHW bivalence point	-20°
Energy supplier	Heat. off
Auxiliary heater for	DHW+ heat.
System diagram configuration	
System diagram	10
Additional module	
Multi-function.output2	Circ. pump
Aux. heater output	Stage3
HEATING1	
Type of circuit	Heating
Max limit outs.temp.	30°
Heating curve	**Site specific
Minimum temperature	15°
Maximum temperature	45°
Auto Off mode	Eco
Room temp. mod.	None
Zone1	
Zone activated:	Yes
Zone assignment:	Without
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

01c	Hydraulic Station
02	aroTHERM Monoblock
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	System Controller / Thermostat - VRC 700
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	ZONE
A	16/06/2020	Electric Meter & rotary isolation added to outdoor module.	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

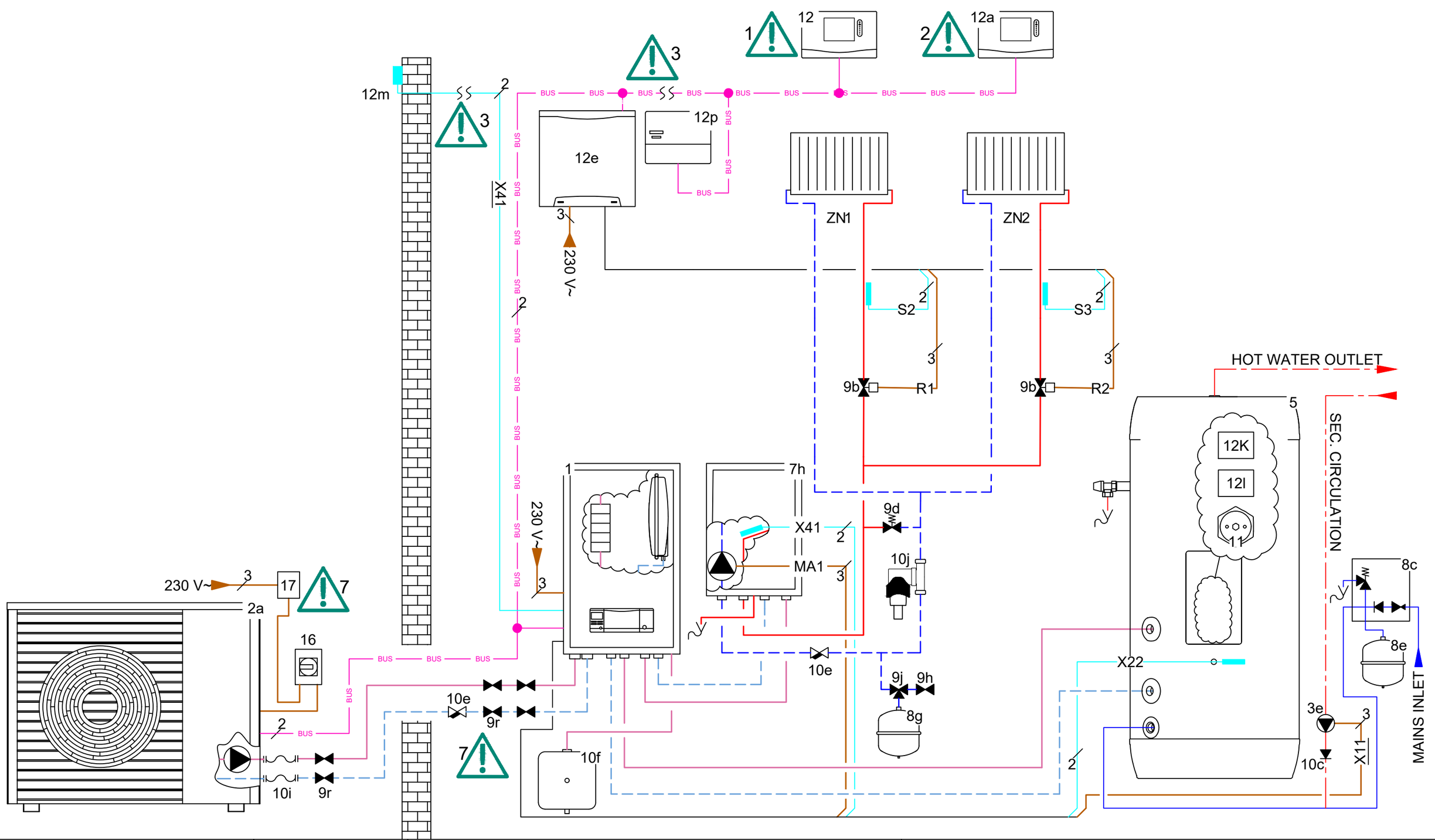
Drawn: A. WILLIS
16/06/2020 REV: A

Appliance(s): aroTHERM Mono, Hydraulic Station, Heat Ex. Module
Control(s): VRC 700

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. For meter ready requirements (RHI)



Drawn: A. WILLIS

16/06/2020 REV: A

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

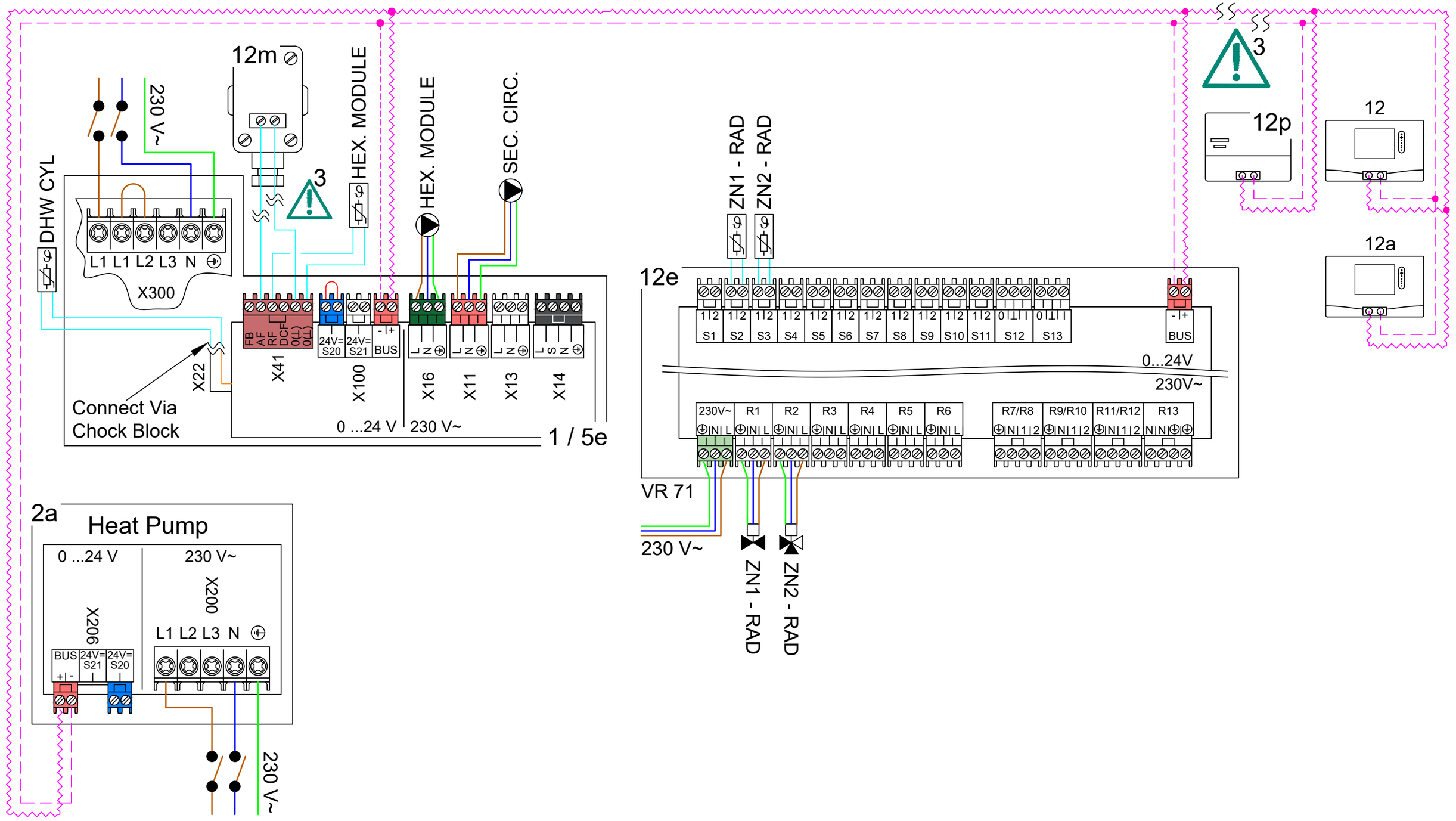
Control(s): sensoCOMFORT

HTG. Circuit(s): 2x Radiator - 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. For meter ready requirements (RHI)



Drawn: A. WILLIS
16/06/2020 REV: A

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

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

30190-1012

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sensoCOMFORT / VRC 700 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
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
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

Setting	Value
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 Monoblock
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
A	16/06/2020	Electric Meter & rotary isolation added to outdoor module.	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

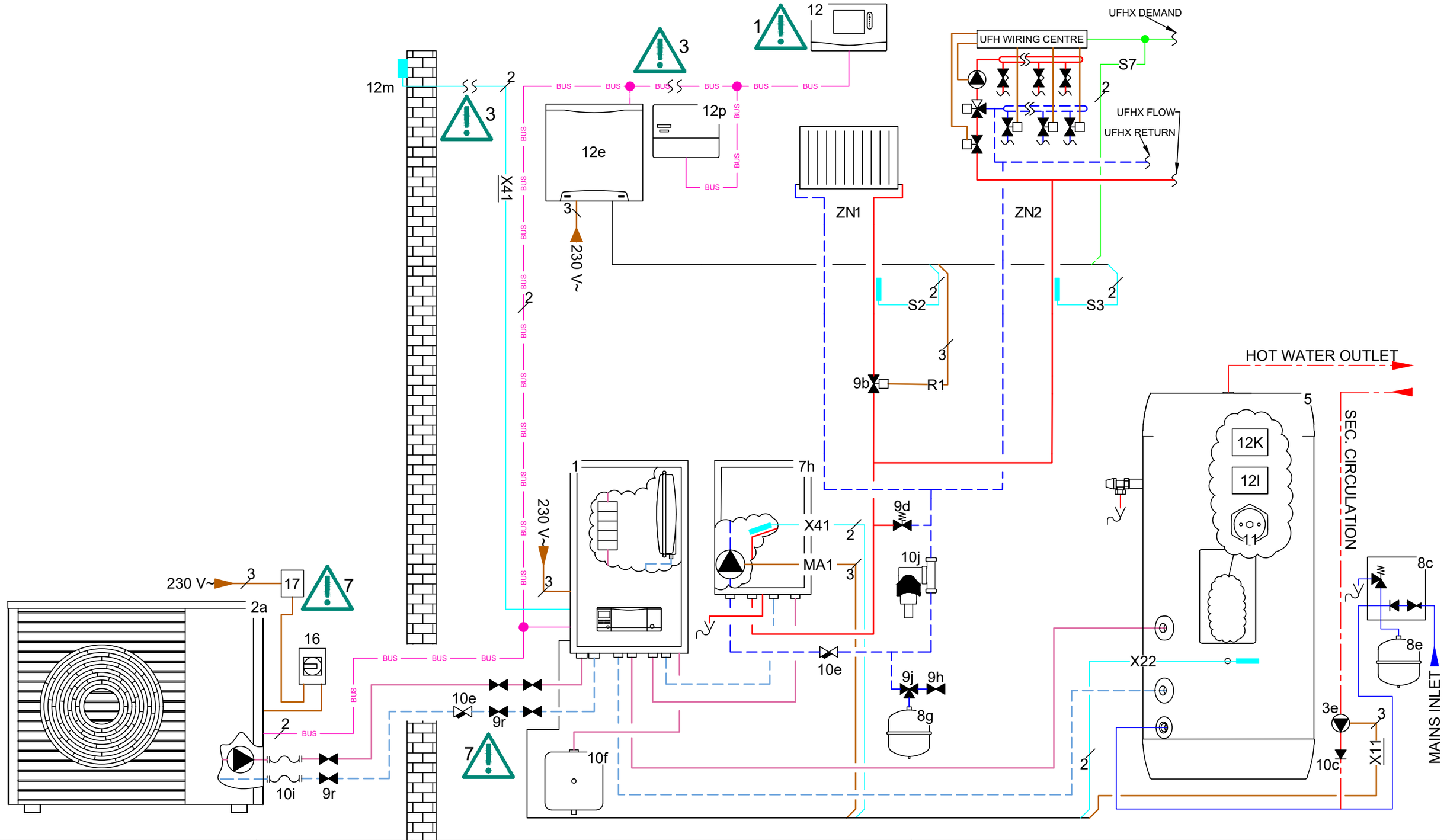
Drawn: A. WILLIS
16/06/2020 REV: A

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

HTG. Circuit(s): 2x Radiator - 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. For meter ready requirements (RHI)



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Drawn: A. WILLIS
16/06/2020 REV: A

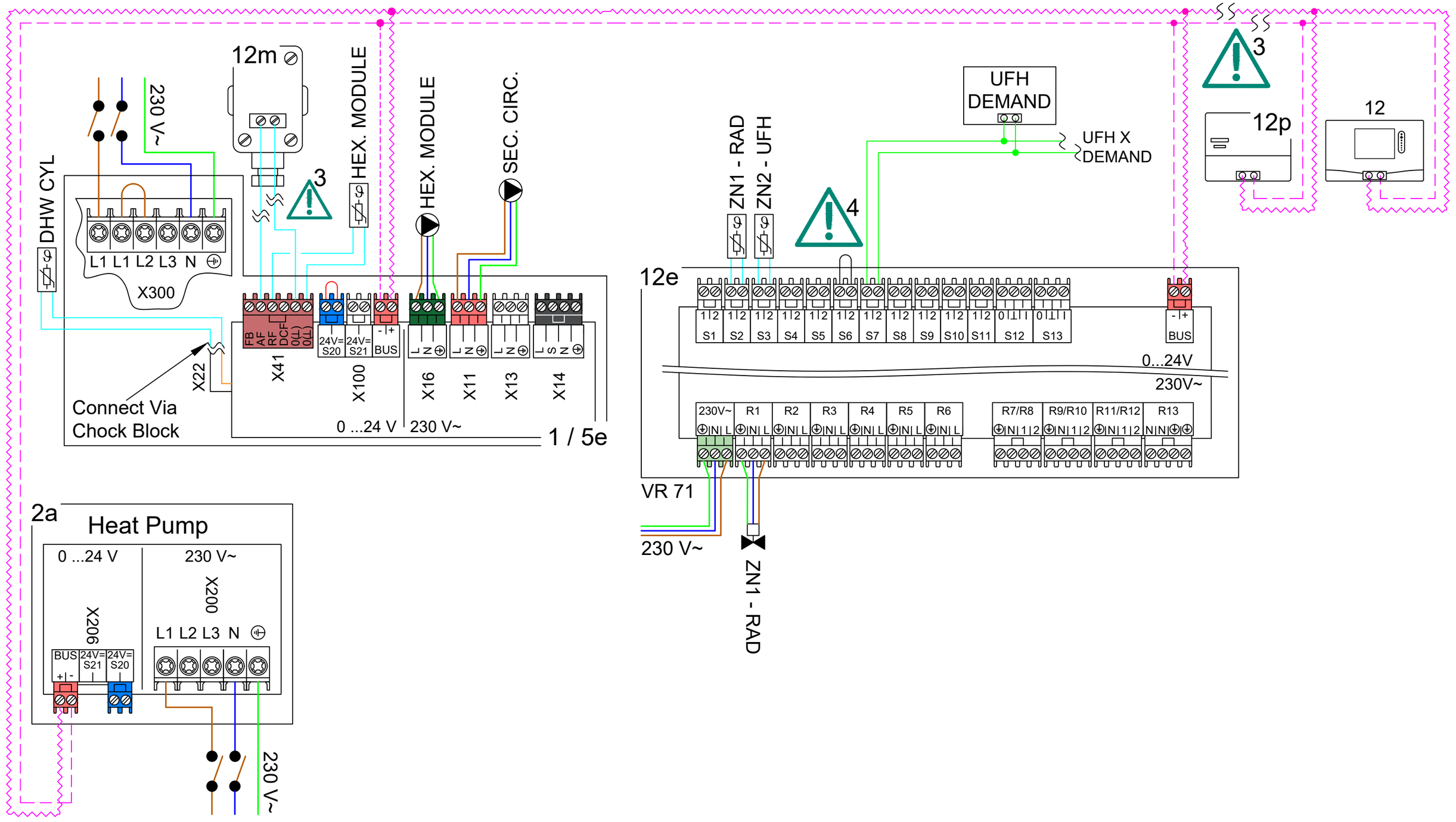
Appliance(s): aroTHERM Mono, Hydraulic Station, Heat Ex. Module
Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Direct, 1x UFH(X) - 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. For meter ready requirements (RHI)

Vaillant



Drawn: A. WILLIS
16/06/2020 REV: A

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

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

30191-1012

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sensoCOMFORT / VRC 700 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
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

01c	Hydraulic Station
02	aroTHERM Monoblock
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
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
A	16/06/2020	Electric Meter & rotary isolation added to outdoor module.	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

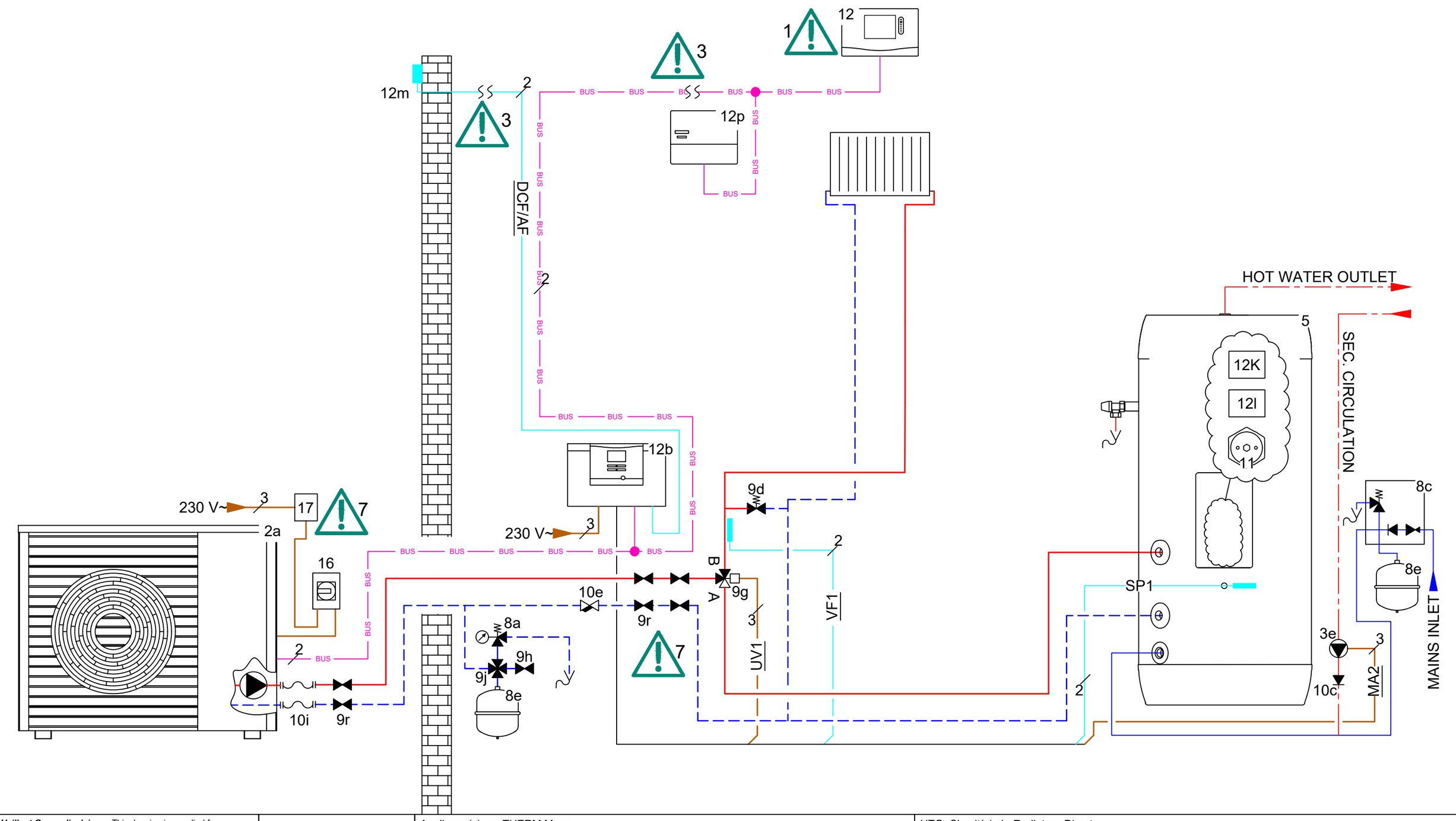
Drawn: A. WILLIS
16/06/2020 REV: A

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

HTG. Circuit(s): 1x Radiator - Direct, 1x UFH(X) - 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. For meter ready requirements (RHI)



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Drawn: A. WILLIS

16/06/2020 REV: A

Appliance(s): aroTHERM Mono,

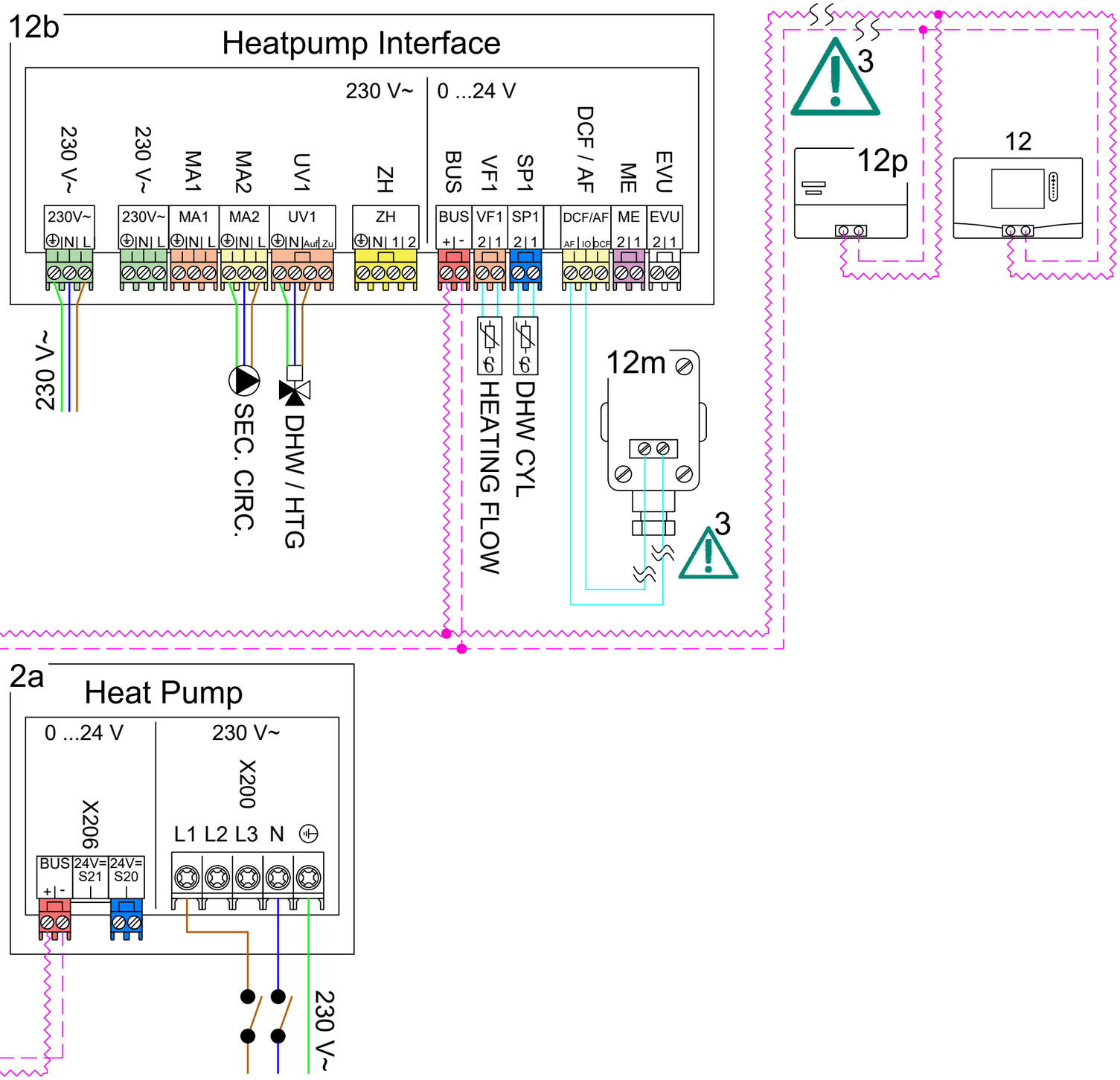
Control(s): sensoCOMFORT

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. For meter ready requirements (RHI)



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Drawn: A. WILLIS	Appliance(s): aroTHERM Mono,	HTG. Circuit(s): 1x Radiator - Direct, ,	
16/06/2020 REV: A	Control(s): sensoCOMFORT	Domestic Hot Water: 1x Cylinder	Page 2 / 3

30260-1011

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sensoCOMFORT / VRC 700 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
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
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

02	aroTHERM Monoblock
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

REV	DATE	DESCRIPTION	ZONE
A	16/06/2020	Electric Meter & rotary isolation added to outdoor module.	2,D
		Immersion removed, secondary circulation pump added.	8,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

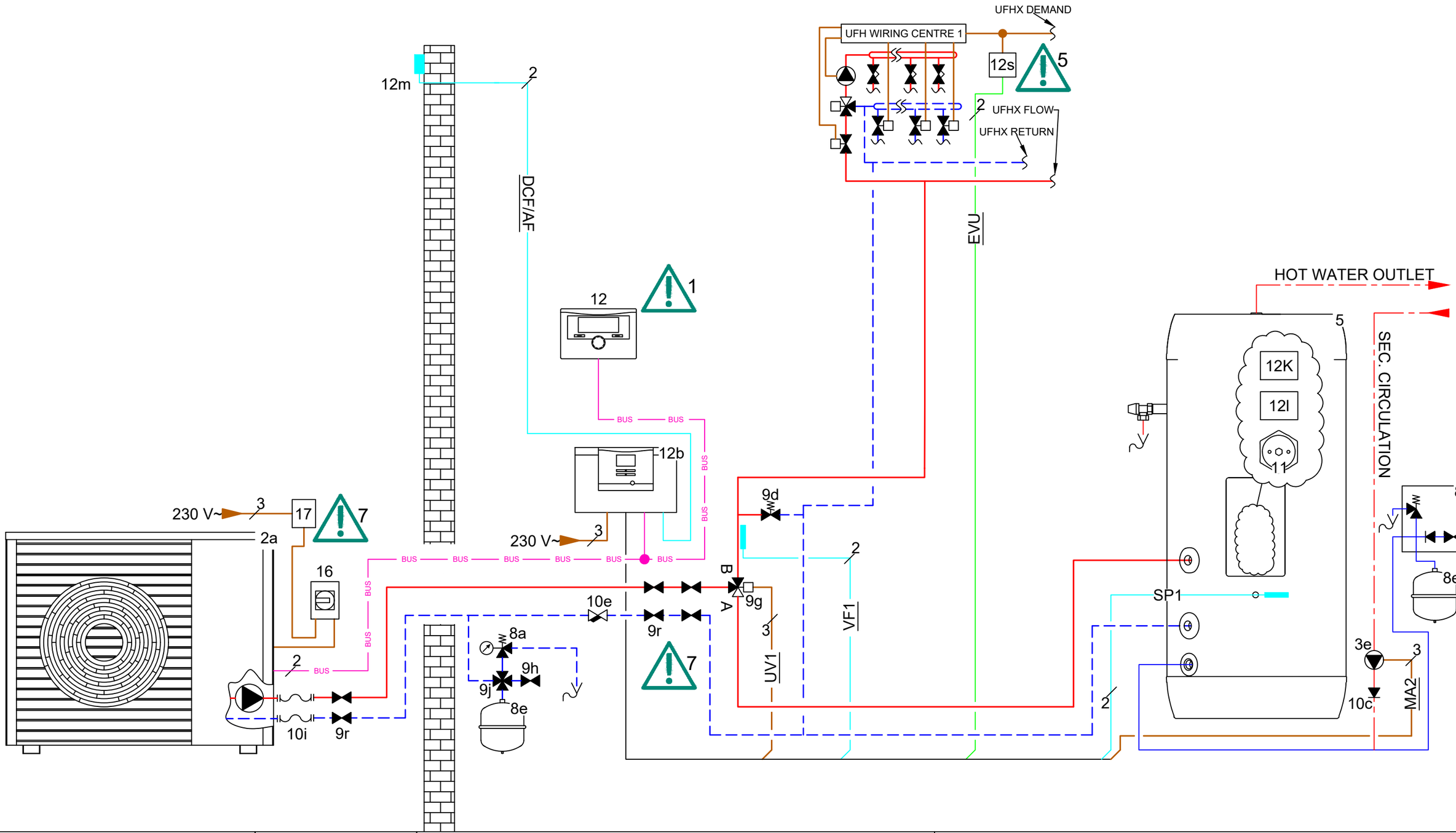
Drawn: A. WILLIS
16/06/2020 REV: A

Appliance(s): aroTHERM Mono,
Control(s): 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. For meter ready requirements (RHI)



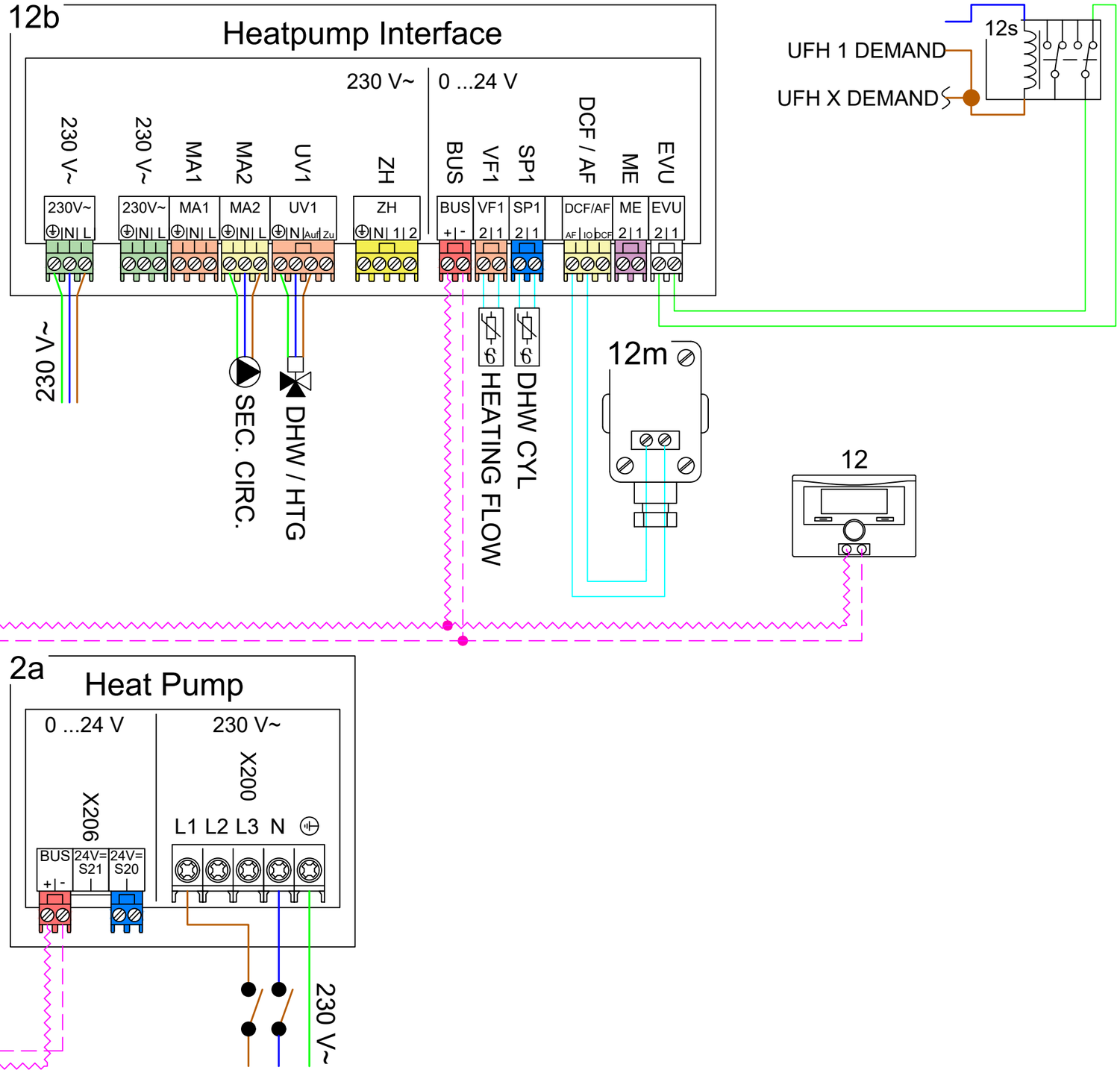
Drawn: A. WILLIS
16/06/2020 REV: A

Appliance(s): aroTHERM Mono,
Control(s): VRC 700

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. For meter ready requirements (RHI)



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Drawn: A. WILLIS
16/06/2020 REV: A

Appliance(s): aroTHERM Mono,
Control(s): VRC 700

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

30261-1011

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sensoCOMFORT / VRC 700 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
System	
Adaptive heat. curve	No
Configure heat. circ.	Zone1
Hybrid manager	Bivalence pt
Heat. bivalence point	-20°
DHW bivalence point	-20°
Energy supplier	Heat. off
Auxiliary heater for	Inactive
System diagram configuration	
System diagram	8
Additional module	
Multi-function.output2	Circ. pump
Aux. heater output	Off
HEATING1	
Type of circuit	Heating
Max limit outs.temp.	30°
Heating curve	**Site specific
Minimum temperature	15°
Maximum temperature	45°
Auto Off mode	Eco
Room temp. mod.	None
Zone1	
Zone activated:	Yes
Zone assignment:	Without
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 Monoblock
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	System Controller / Thermostat - VRC 700
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	ZONE
A	16/06/2020	Electric Meter & rotary isolation added to outdoor module.	2,D
		Immersion removed, secondary circulation pump added.	8,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

Drawn: A. WILLIS
16/06/2020 REV: A

Appliance(s): aroTHERM Mono,
Control(s): VRC 700

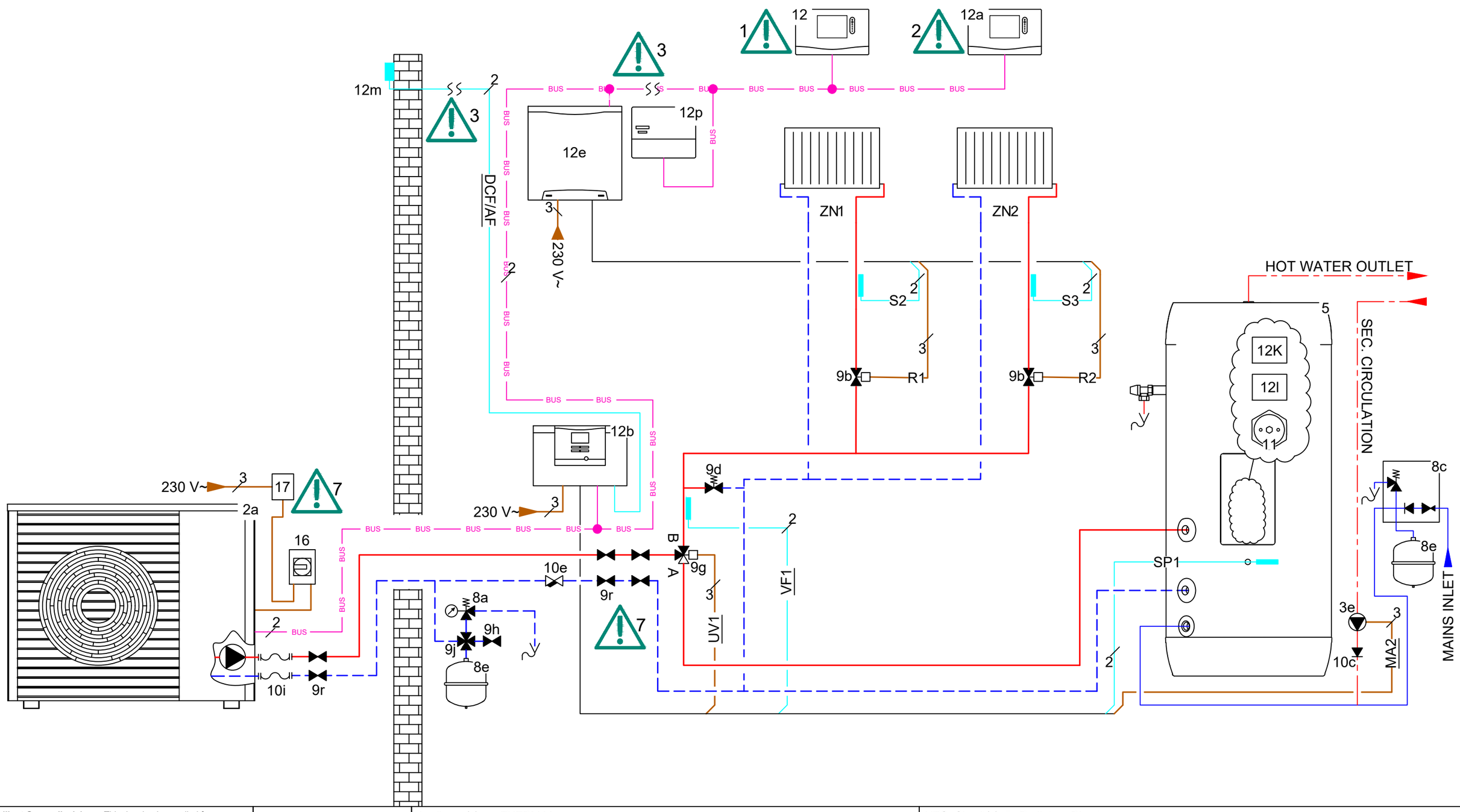
HTG. Circuit(s): 1x UFH(X) - 3rd Party, ,
Domestic Hot Water: 1x Cylinder

30270-1012

NOT APPROVED:
INTERNAL USE ONLY

-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. For meter ready requirements (RHI)

Vaillant



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Drawn: A. WILLIS

16/06/2020 REV: A

Appliance(s): aroTHERM Mono,

Control(s): sensoCOMFORT, VR 92

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

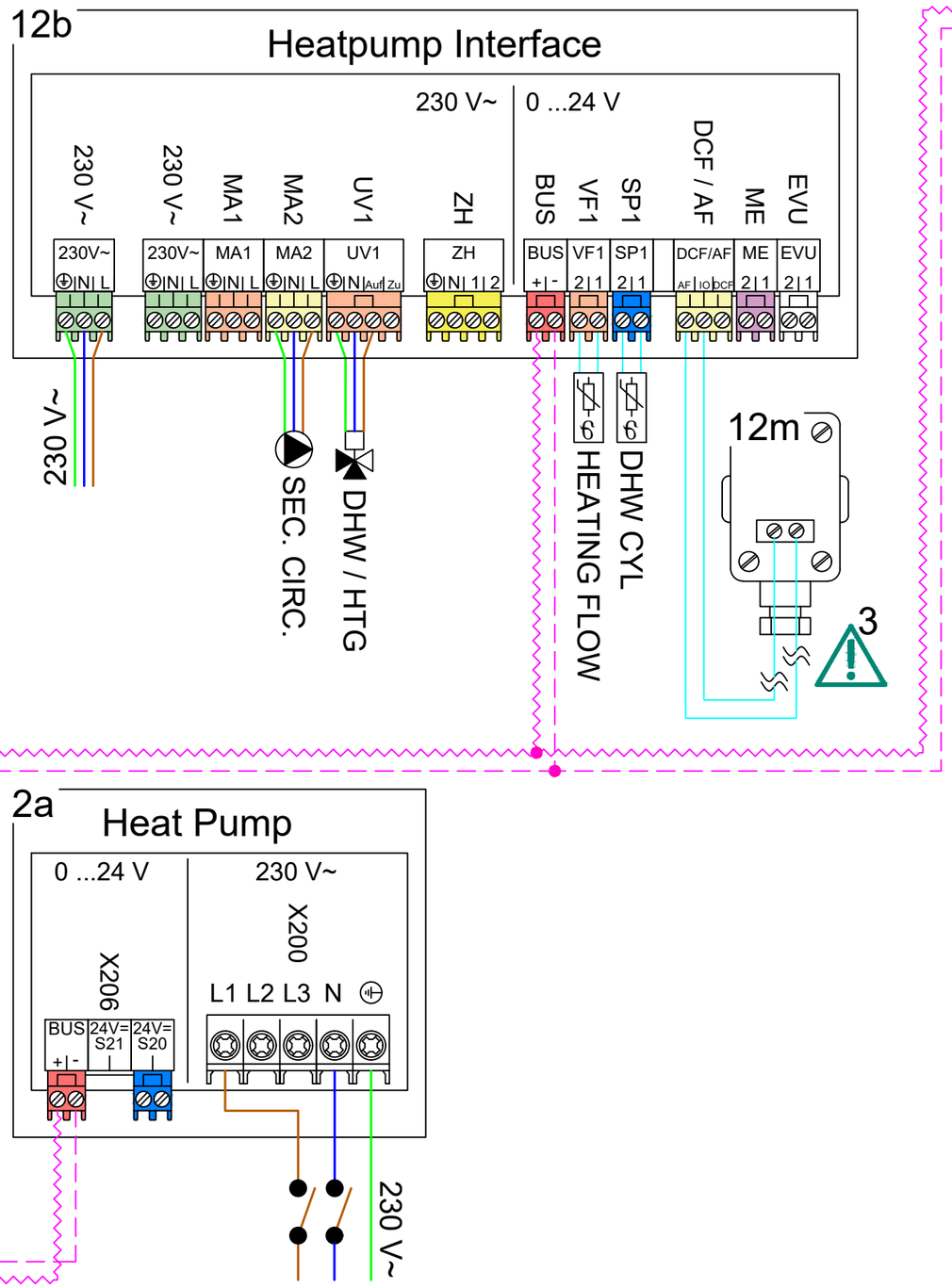
Domestic Hot Water: 1x Cylinder

30270-1012

NOT APPROVED:
INTERNAL USE ONLY

-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. For meter ready requirements (RHI)

Vaillant



Drawn: A. WILLIS	Appliance(s): aroTHERM Mono,	HTG. Circuit(s): 2x Radiator - Direct, ,	
16/06/2020 REV: A	Control(s): sensoCOMFORT, VR 92	Domestic Hot Water: 1x Cylinder	Page 2 / 3

30270-1012

NOT APPROVED:
INTERNAL USE ONLY

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sensoCOMFORT / VRC 700 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
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

02	aroTHERM Monoblock
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

REV	DATE	DESCRIPTION	ZONE
A	16/06/2020	Electric Meter & rotary isolation added to outdoor module.	2,D
		Immersion removed, secondary circulation pump added.	8,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

Drawn: A. WILLIS
16/06/2020 REV: A

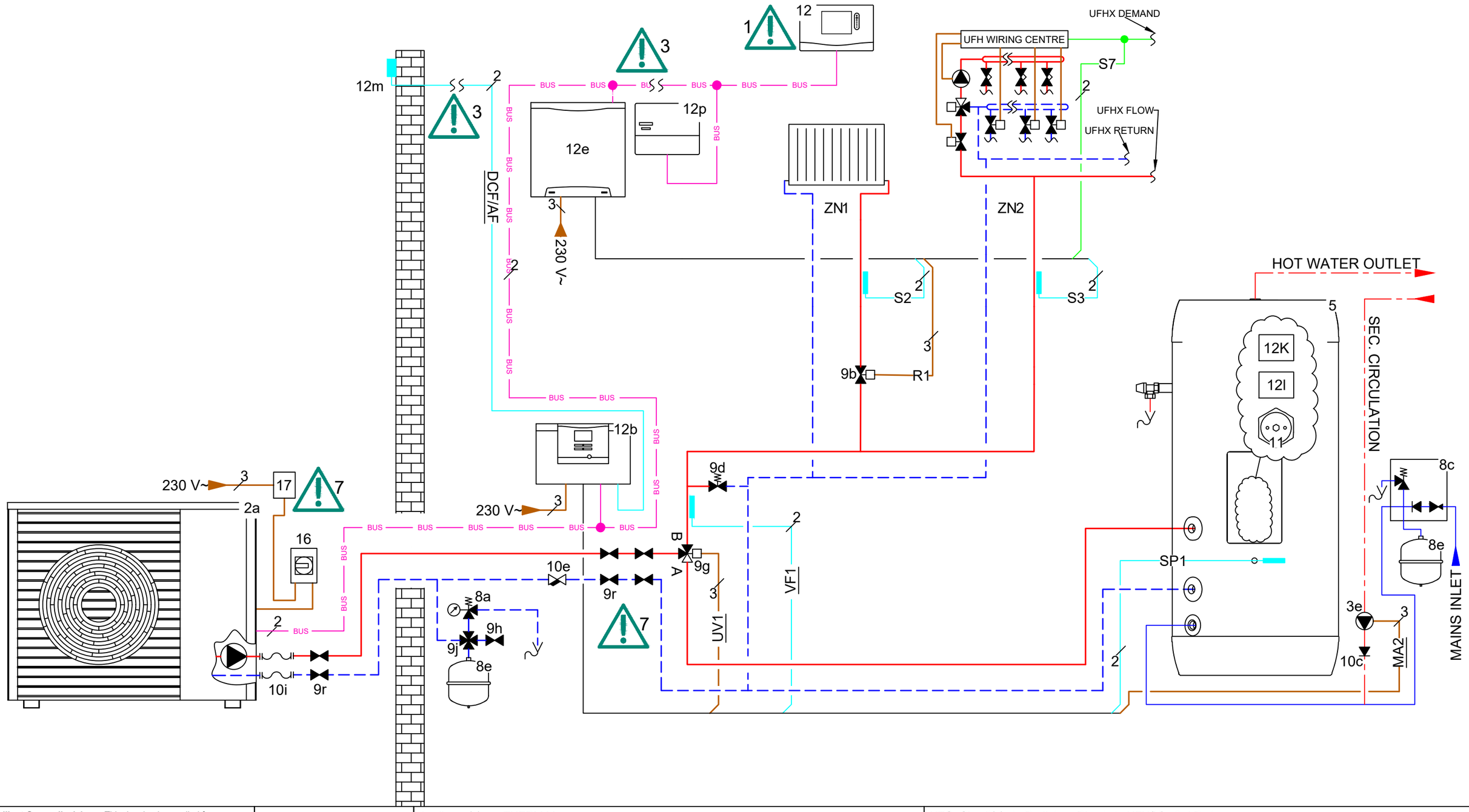
Appliance(s): aroTHERM Mono,
Control(s): sensoCOMFORT, VR 92

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
5. DPDT Relay (not supplied by Vaillant). See page 2 for detailed wiring.
7. For meter ready requirements (RHI)
8. Immersion optional depending on DHW Temperature set point.



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Drawn: A. WILLIS

16/06/2020 REV: A

Appliance(s): aroTHERM Mono,

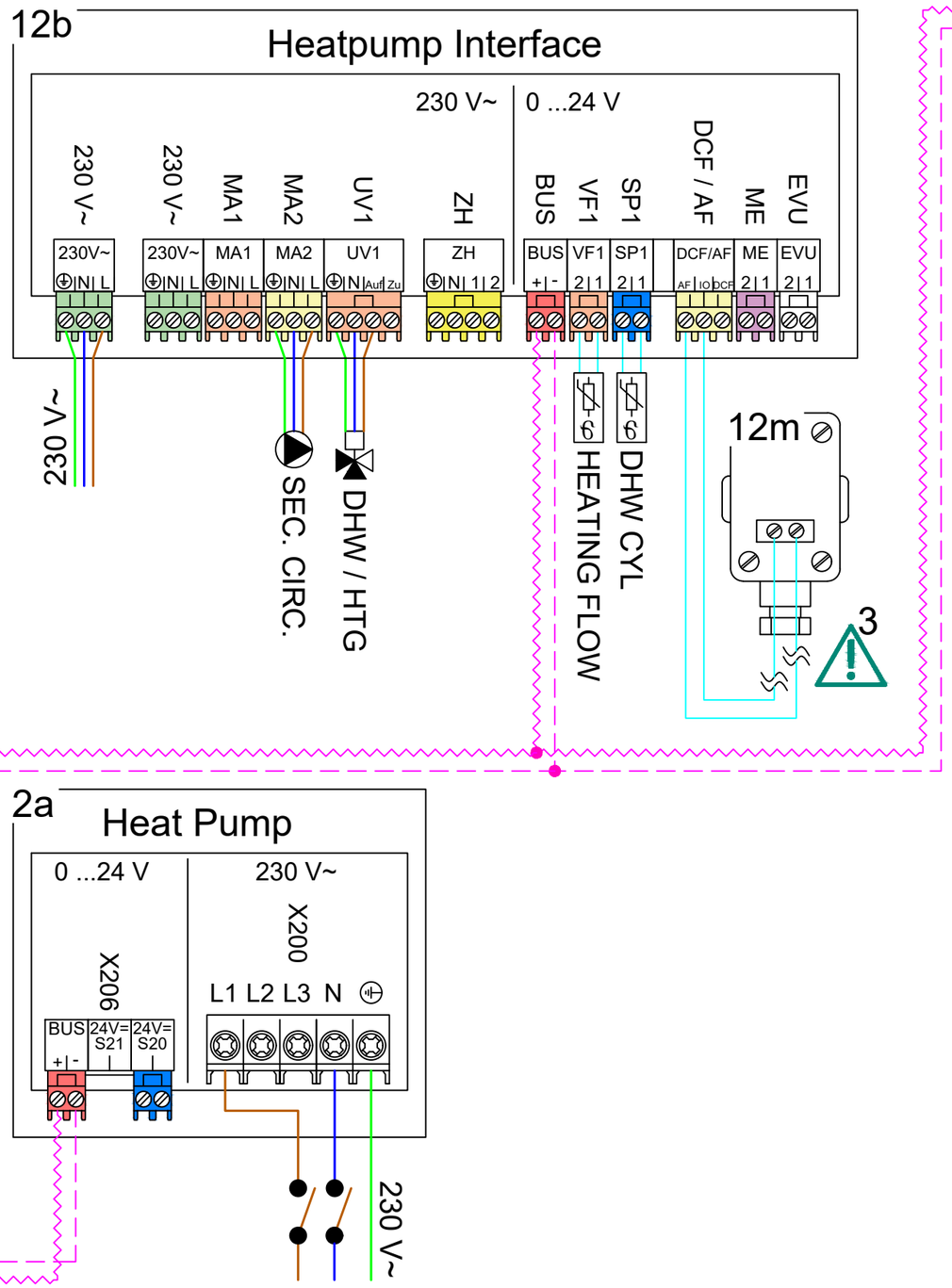
Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Direct, 1x UFH(X) - 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
5. DPDT Relay (not supplied by Vaillant). See page 2 for detailed wiring.
7. For meter ready requirements (RHI)
8. Immersion optional depending on DHW Temperature set point.



Drawn: A. WILLIS
16/06/2020 REV: A

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

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

30271-1012

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sensoCOMFORT / VRC 700 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
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:	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 Monoblock
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
A	16/06/2020	Electric Meter & rotary isolation added to outdoor module.	2,D
		Immersion removed, secondary circulation pump added.	8,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

Drawn: A. WILLIS
16/06/2020 REV: A

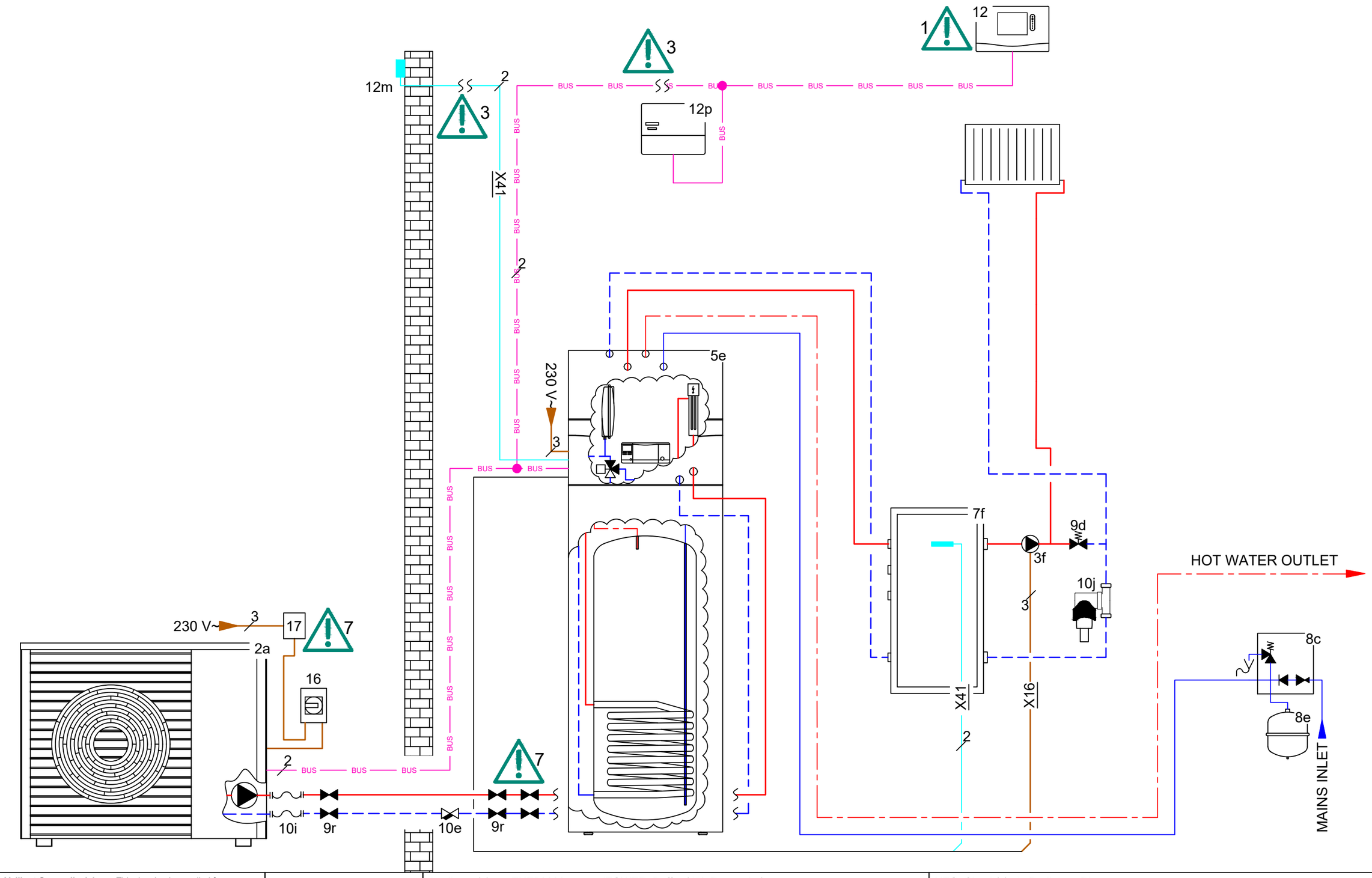
Appliance(s): aroTHERM Mono,
Control(s): sensoCOMFORT

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. For meter ready requirements (RHI)



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Drawn: A. WILLIS

16/06/2020 REV: A

Appliance(s): aroTHERM Mono, uniTOWER, Buffer (40L Decoupler)

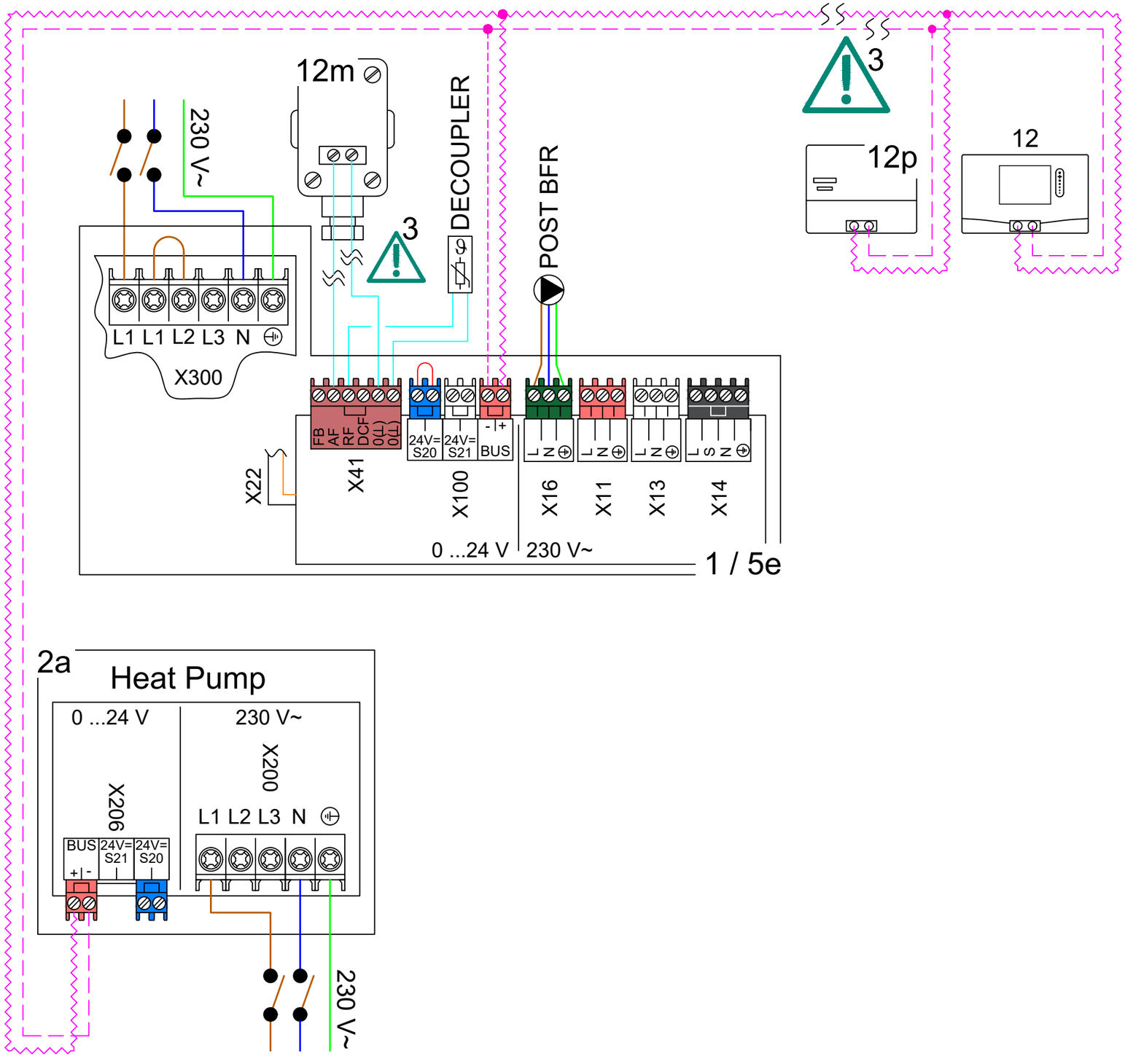
Control(s): sensoCOMFORT

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. For meter ready requirements (RHI)



Drawn: A. WILLIS
16/06/2020 REV: A

Appliance(s): aroTHERM Mono, uniTOWER, Buffer (40L Decoupler)
Control(s): sensoCOMFORT

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

30220-1011

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sensoCOMFORT / VRC 700 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
Conf. ext. input:	Bridge, deactiv.
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

02	aroTHERM Monoblock
03f	General Pump
05e	uniTOWER
07f	40L Decoupler
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	ZONE
A	16/06/2020	Electric Meter & rotary isolation added to outdoor module.	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

Drawn: A. WILLIS
16/06/2020 REV: A

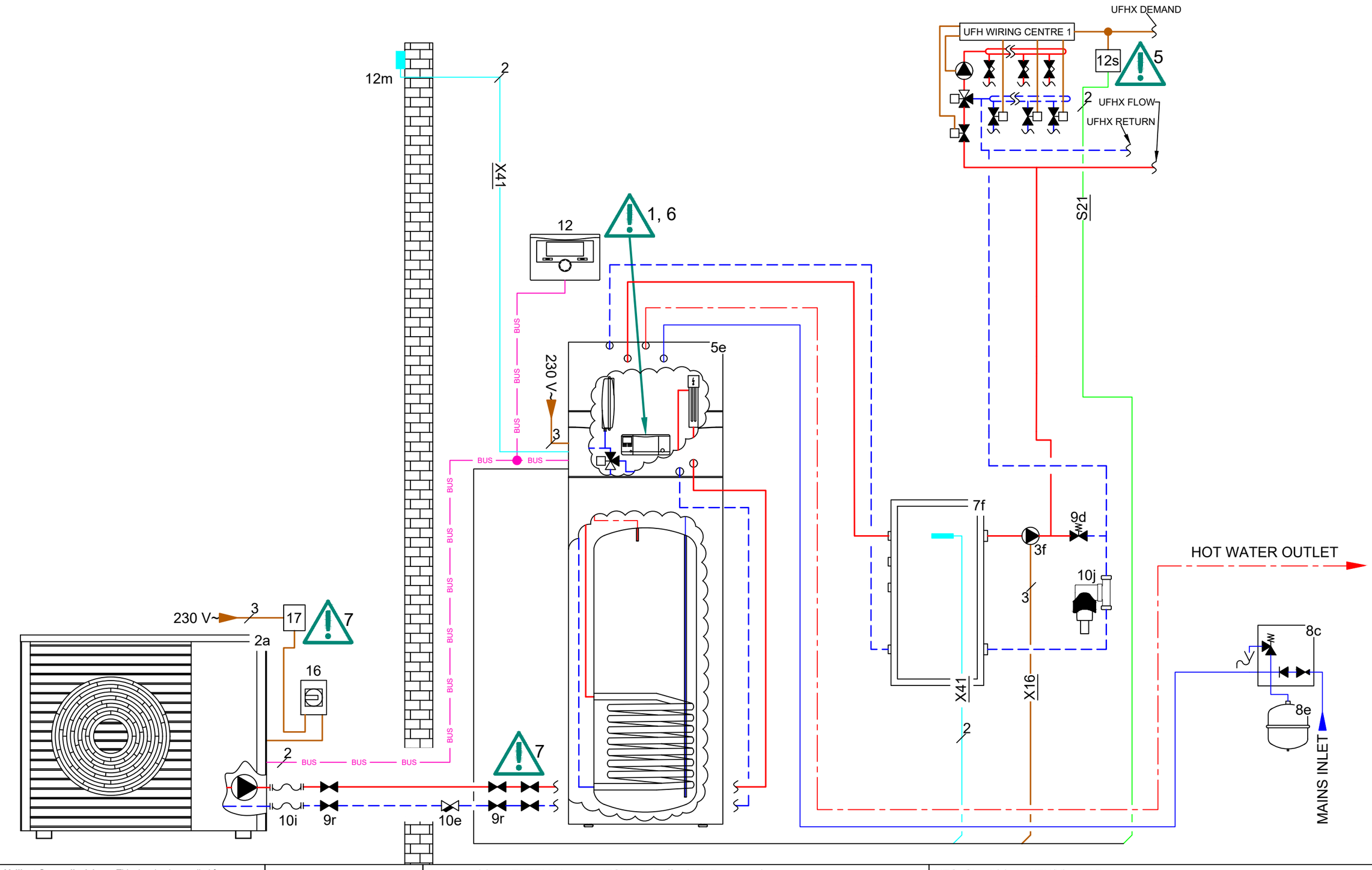
Appliance(s): aroTHERM Mono, uniTOWER, Buffer (40L Decoupler)
Control(s): sensoCOMFORT

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.
6. Mount externally or to fascia
7. For meter ready requirements (RHI)



Drawn: A. WILLIS

16/06/2020 REV: A

Appliance(s): aroTHERM Mono, uniTOWER, Buffer (40L Decoupler)

Control(s): VRC 700

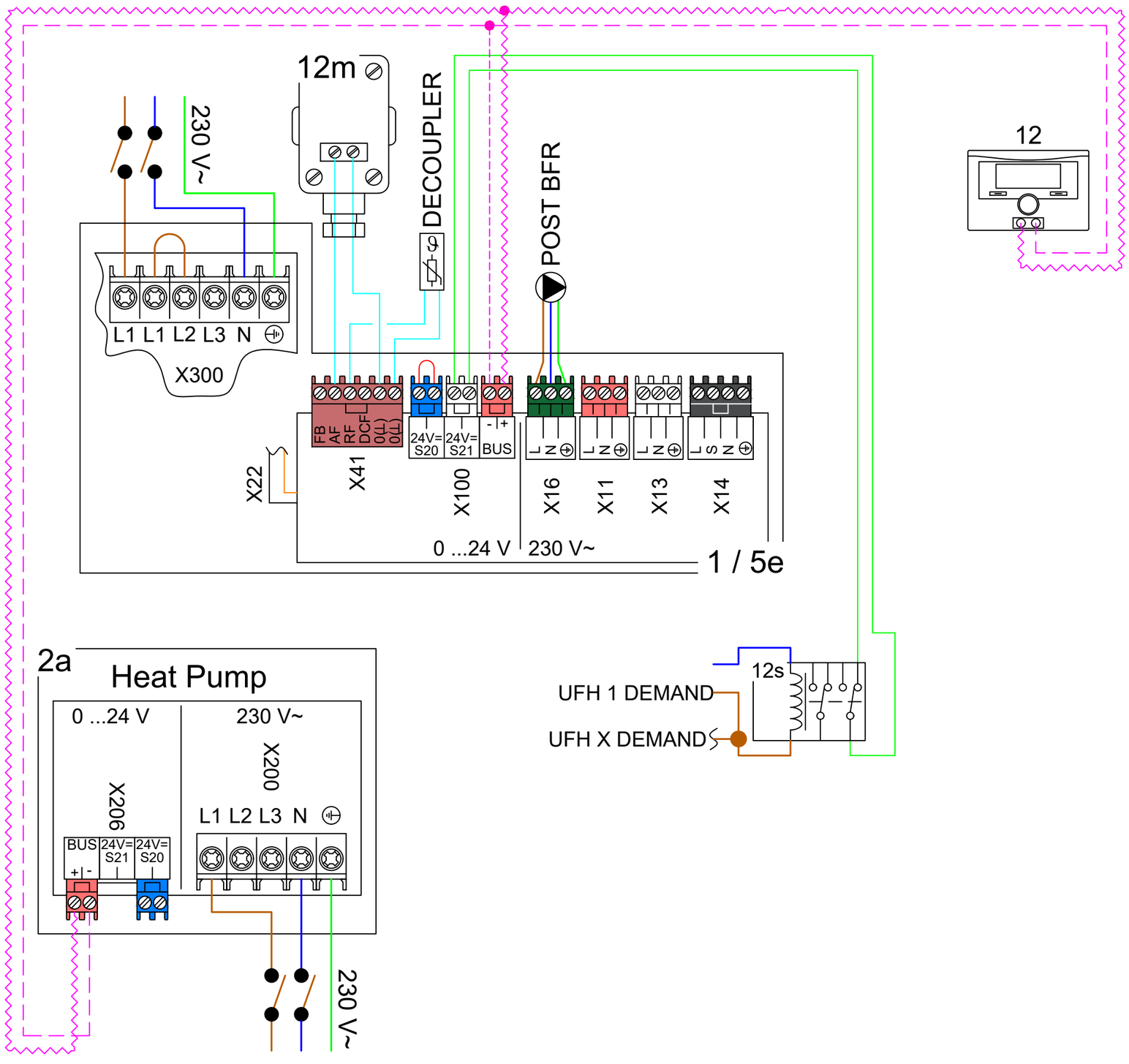
HTG. Circuit(s): 1x UFH(X) - 3rd Party, ,

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.
6. Mount externally or to fascia
7. For meter ready requirements (RHI)



Drawn: A. WILLIS

16/06/2020 REV: A

Appliance(s): aroTHERM Mono, uniTOWER, Buffer (40L Decoupler)

Control(s): VRC 700

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

Domestic Hot Water: uniTOWER

30221-1011

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sensoCOMFORT / VRC 700 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
System	
Adaptive heat. curve	No
Configure heat. circ.	Zone1
Hybrid manager	Bivalence pt
Heat. bivalence point	-20°
DHW bivalence point	-20°
Energy supplier	Heat. off
Auxiliary heater for	DHW+ heat.
System diagram configuration	
System diagram	10
Additional module	
Multi-function.output2	Not conn.
Aux. heater output	Stage3
HEATING 1	
Type of circuit	Heating
Max limit outs.temp.	30°
Heating curve	**Site specific
Minimum temperature	15°
Maximum temperature	45°
Auto Off mode	Eco
Room temp. mod.	None
Zone 1	
Zone activated:	Yes
Zone assignment:	Without
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 Monoblock
03f	General Pump
05e	uniTOWER
07f	40L Decoupler
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	System Controller / Thermostat - VRC 700
12m	Outdoor Temperature Sensor
12s	DPDT Relay (3rd Party)
16	Rotary Isolator
17	Electric Meter

REV	DATE	DESCRIPTION	ZONE
A	16/06/2020	Electric Meter & rotary isolation added to outdoor module.	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

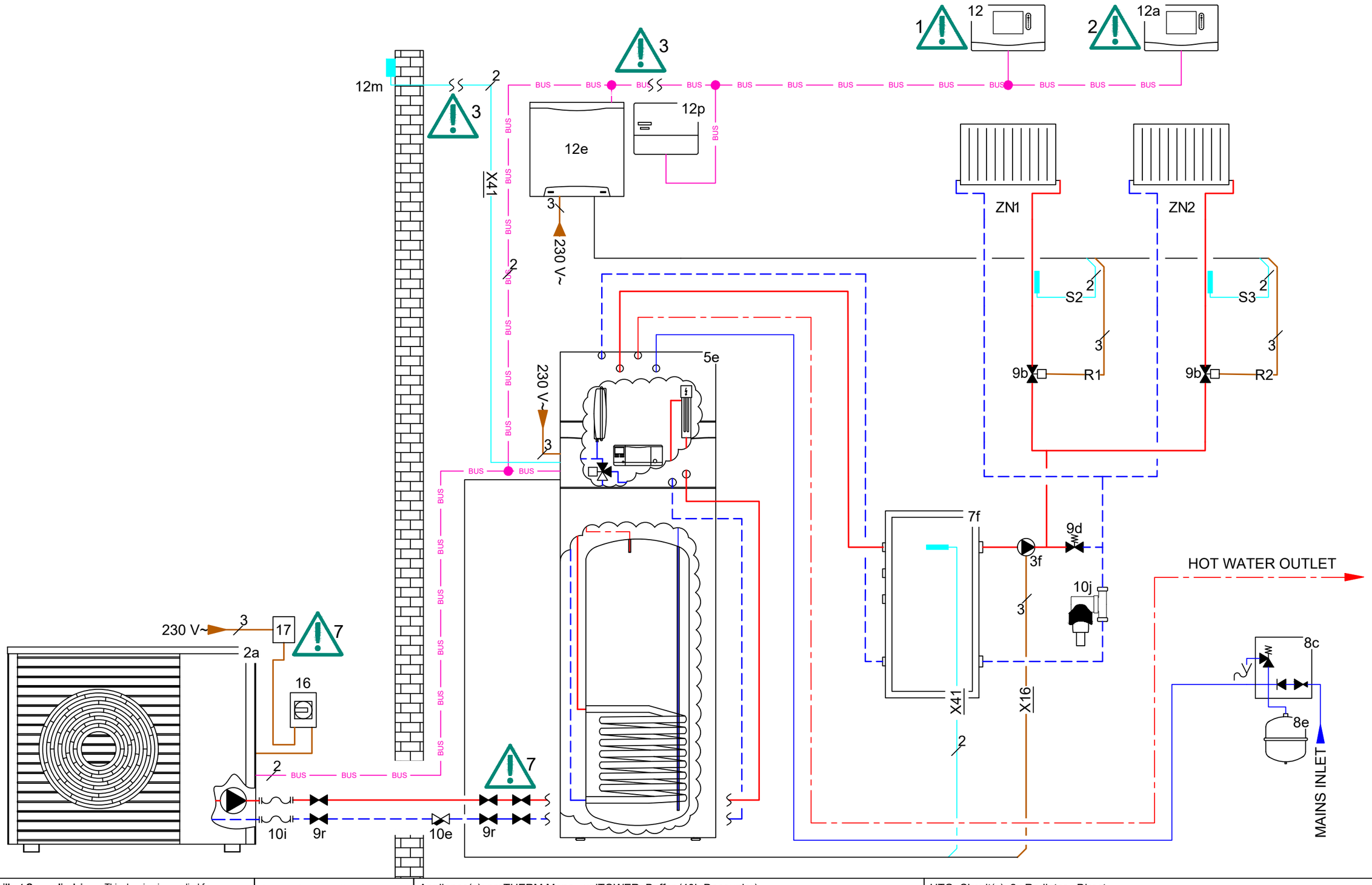
Drawn: A. WILLIS
16/06/2020 REV: A

Appliance(s): aroTHERM Mono, uniTOWER, Buffer (40L Decoupler)
Control(s): VRC 700

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. For meter ready requirements (RHI)



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Drawn: A. WILLIS

16/06/2020 REV: A

Appliance(s): aroTHERM Mono, uniTOWER, Buffer (40L Decoupler)

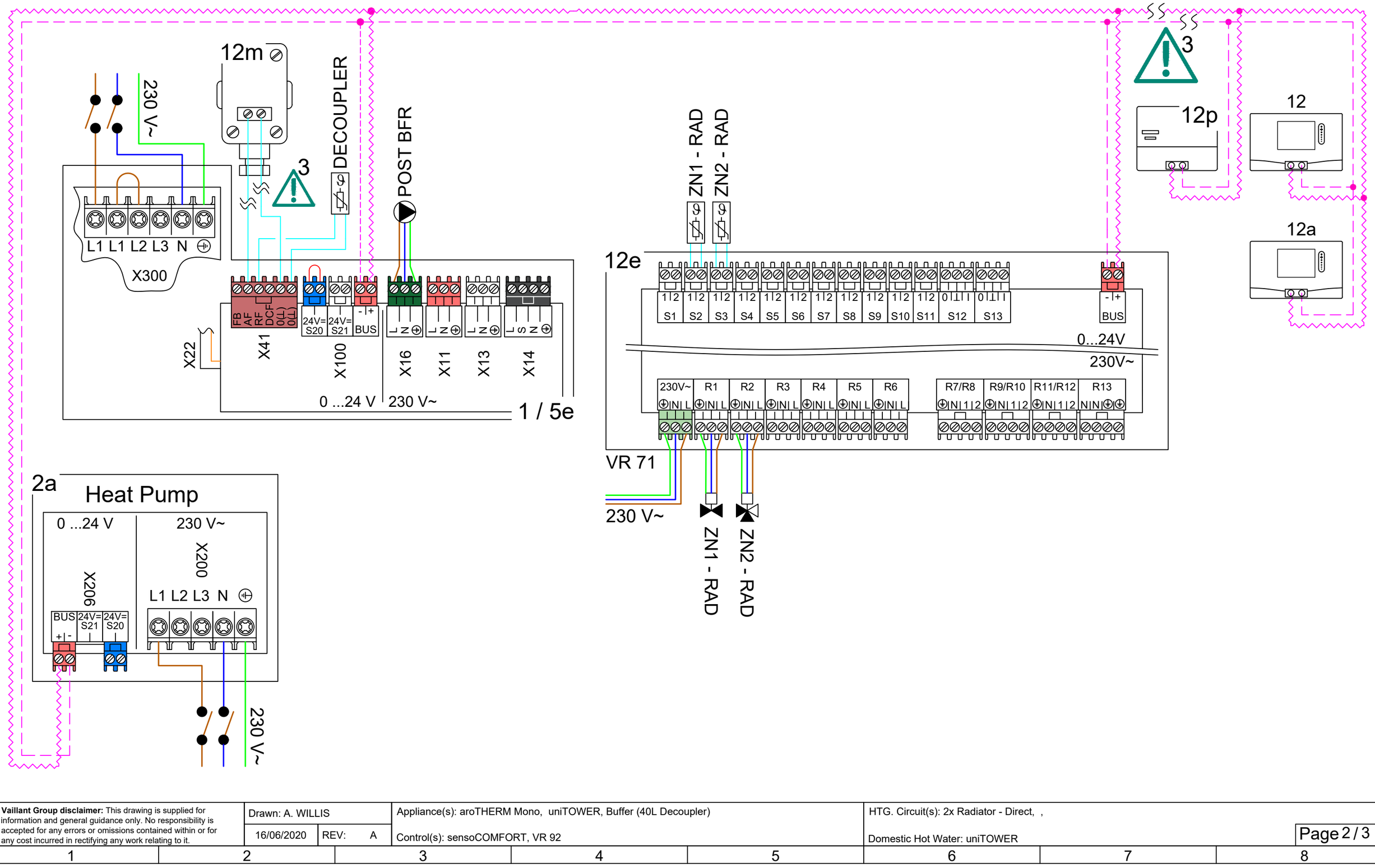
Control(s): sensoCOMFORT, VR 92

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. For meter ready requirements (RHI)



Drawn: A. WILLIS
16/06/2020 REV: A

Appliance(s): aroTHERM Mono, uniTOWER, Buffer (40L Decoupler)
Control(s): sensoCOMFORT, VR 92

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

30230-1012

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sensoCOMFORT / VRC 700 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
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:	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

02	aroTHERM Monoblock
03f	General Pump
05e	uniTOWER
07f	40L Decoupler
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
A	16/06/2020	Electric Meter & rotary isolation added to outdoor module.	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

Drawn: A. WILLIS

16/06/2020 REV: A

Appliance(s): aroTHERM Mono, uniTOWER, Buffer (40L Decoupler)

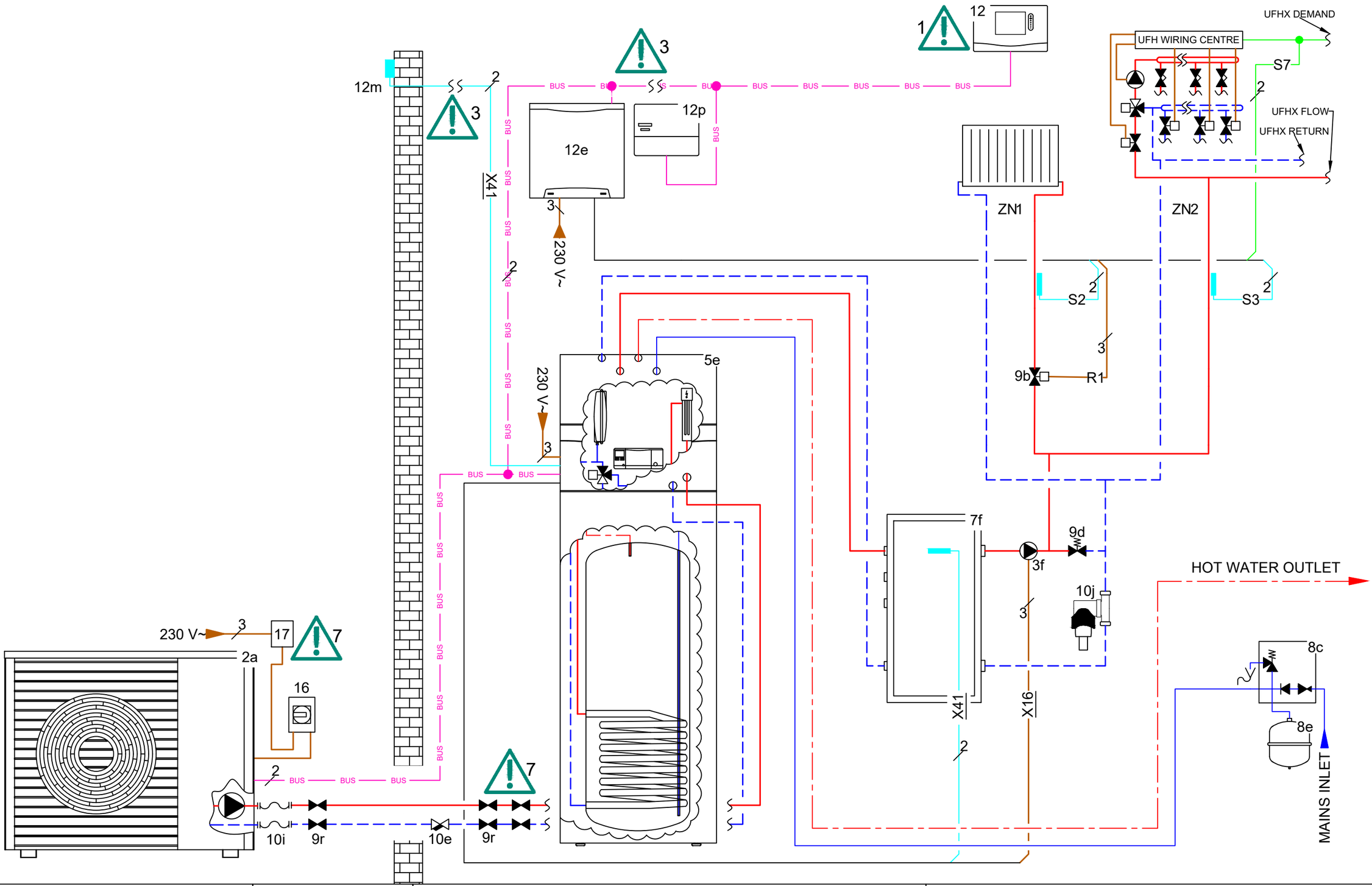
Control(s): sensoCOMFORT, VR 92

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. For meter ready requirements (RHI)



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Drawn: A. WILLIS
16/06/2020 REV: -

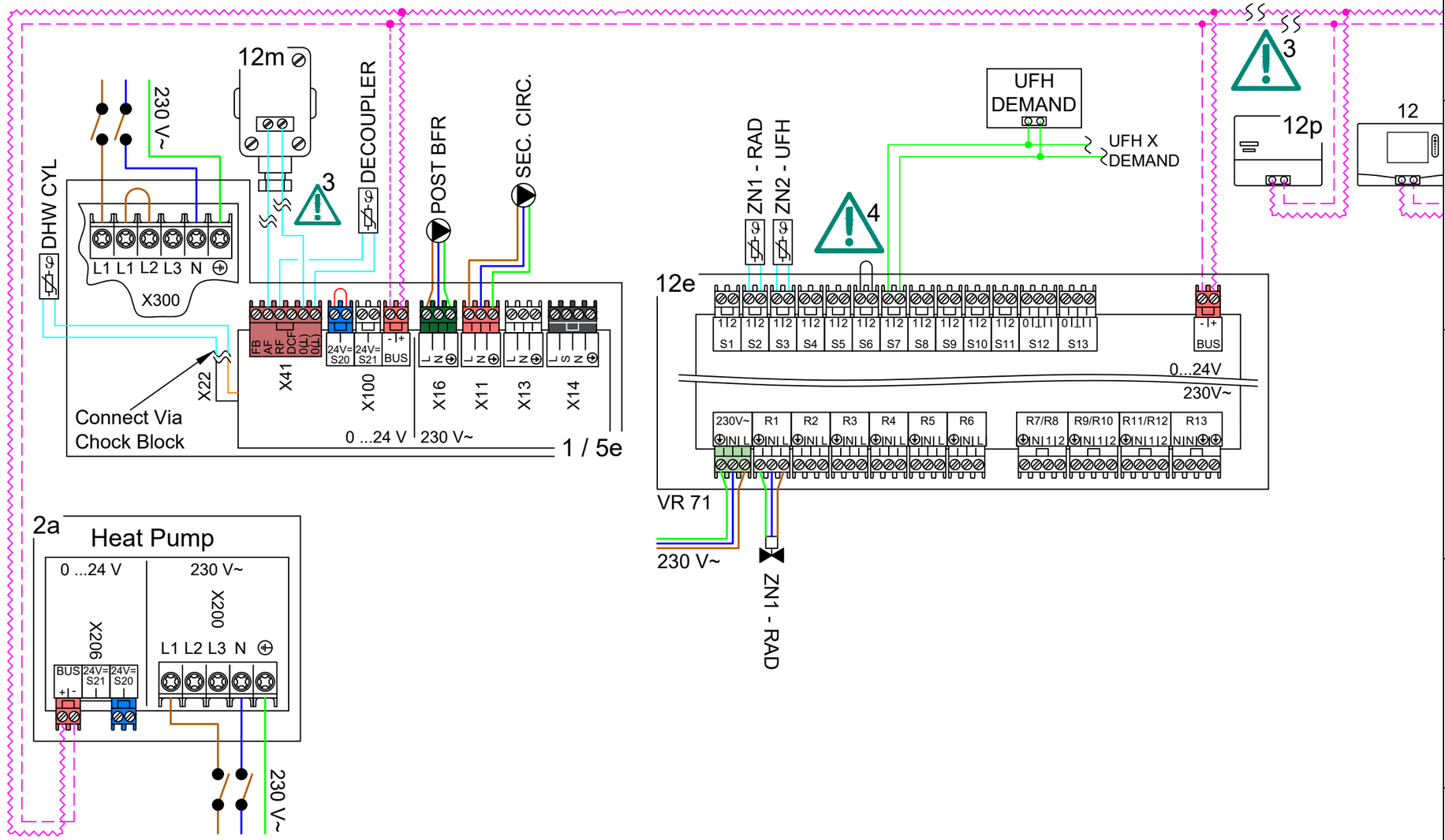
Appliance(s): aroTHERM Mono, uniTOWER, Buffer (40L Decoupler)
Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Direct, 1x UFH(X) - 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. For meter ready requirements (RHI)



Drawn: A. WILLIS

16/06/2020 REV: -

Appliance(s): aroTHERM Mono, uniTOWER, Buffer (40L Decoupler)

Control(s): sensoCOMFORT

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

Domestic Hot Water: uniTOWER

30231-1012

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sensoCOMFORT / VRC 700 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
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:	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

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 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 Monoblock
03f	General Pump
05e	uniTOWER
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Indicates Cable Junction

Indicates No. of cable cores

Drawn: A. WILLIS
16/06/2020 REV: -

Appliance(s): aroTHERM Mono, uniTOWER, Buffer (40L Decoupler)
Control(s): sensoCOMFORT

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

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