



System schematics for aroTHERM plus

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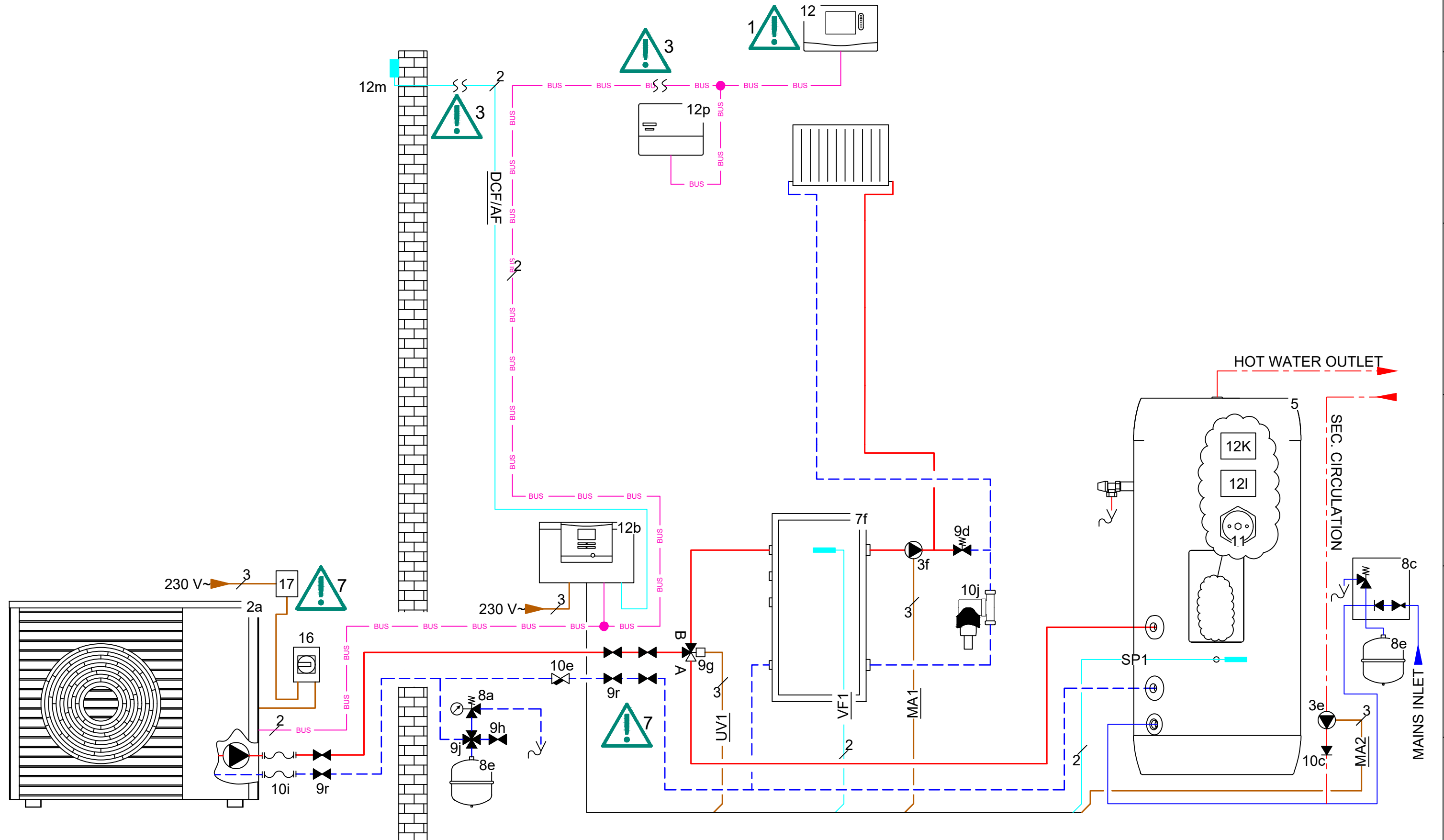
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30110-1011



-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

15/06/2020

REV:

A

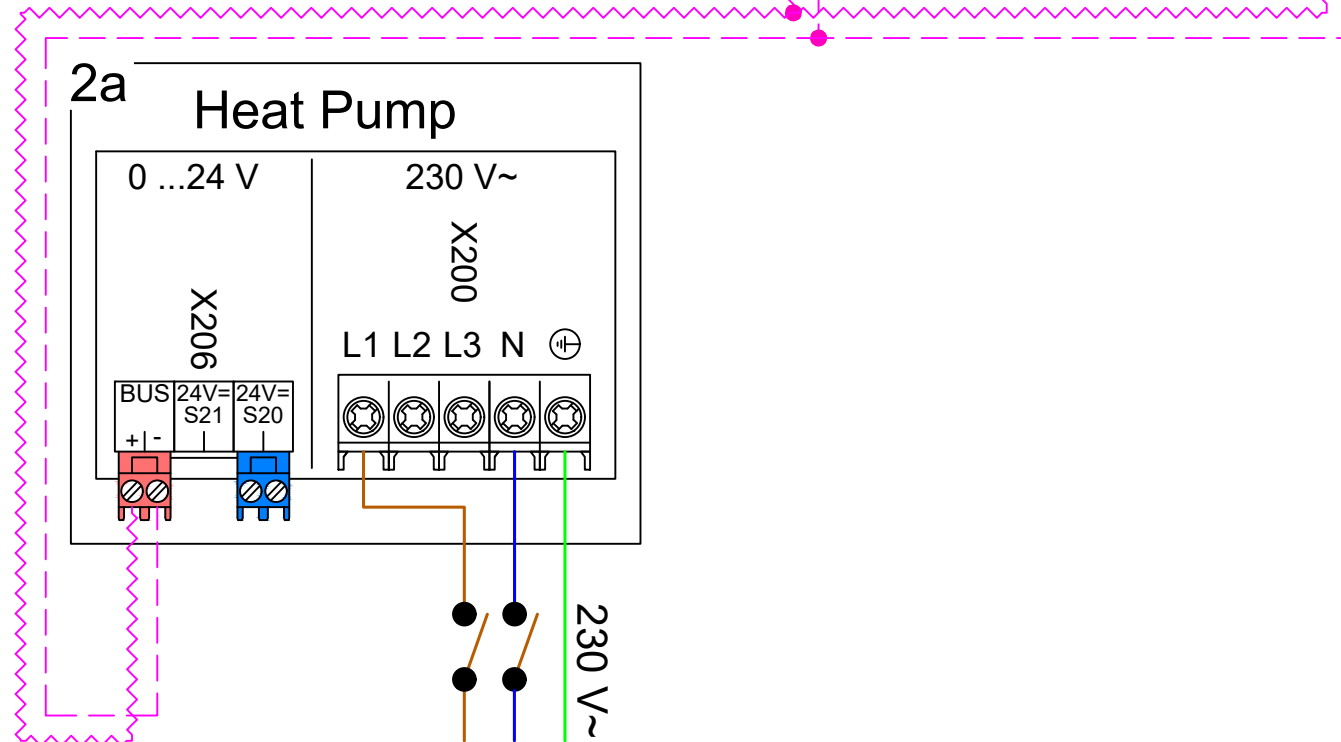
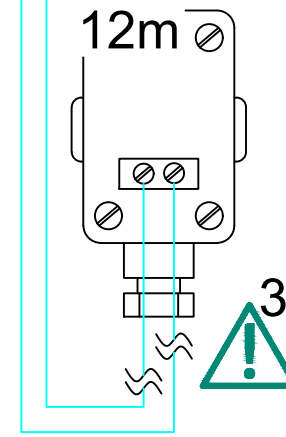
Appliance(s): aroTHERM Mono, Buffer (40L Decoupler)

Control(s): sensoCOMFORT

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

Domestic Hot Water: 1x Cylinder

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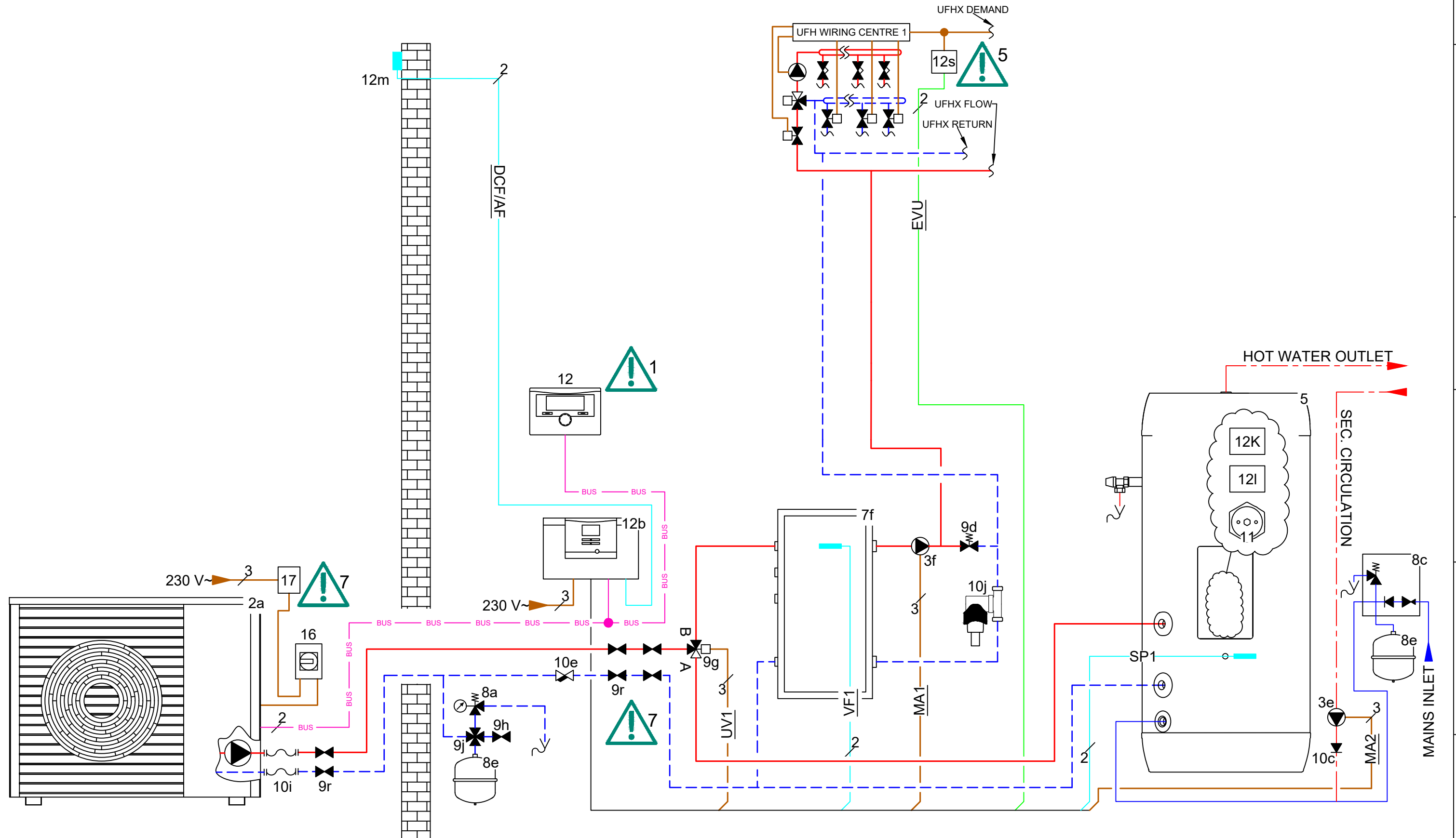


30111-1011



-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

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30111-1011



-See page 2 for detailed wiring.

1. See page 3 for relevant controller system configuration settings.

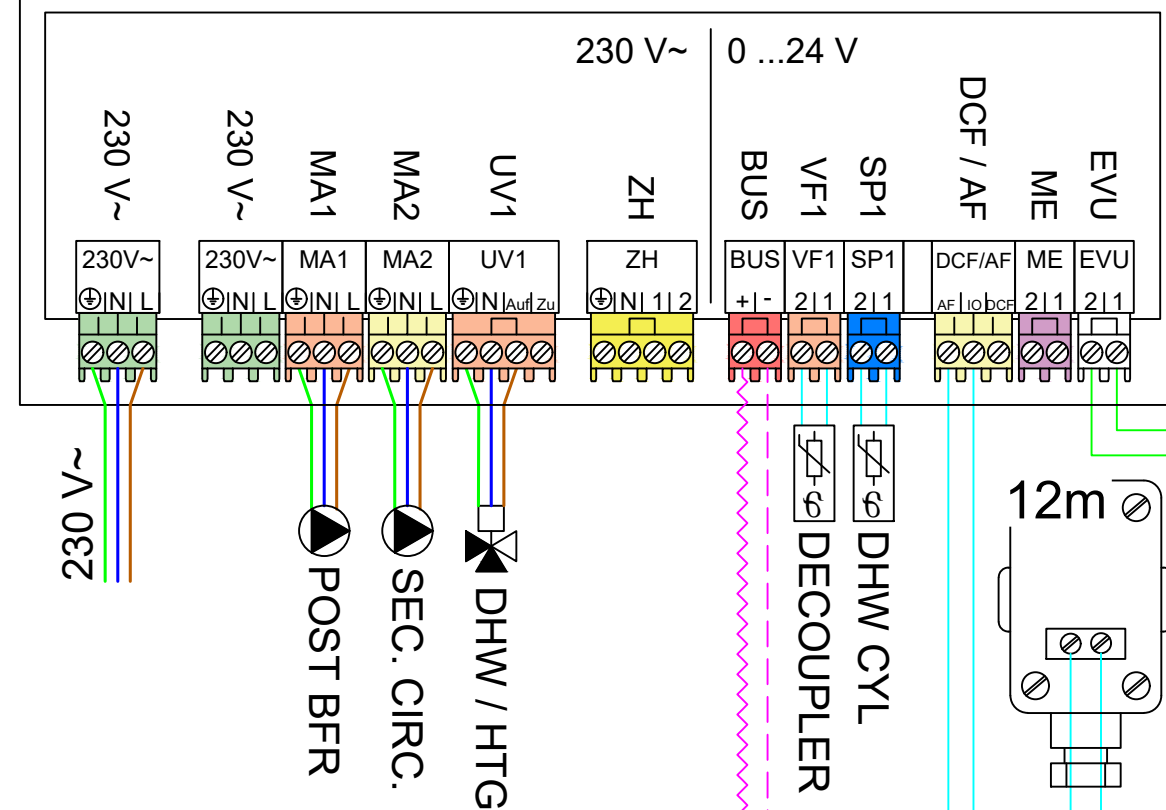
5. DPDT Relay (not supplied by Vaillant). See page 2 for detailed wiring.

7. For meter ready requirements (RHI)



12b

Heatpump Interface



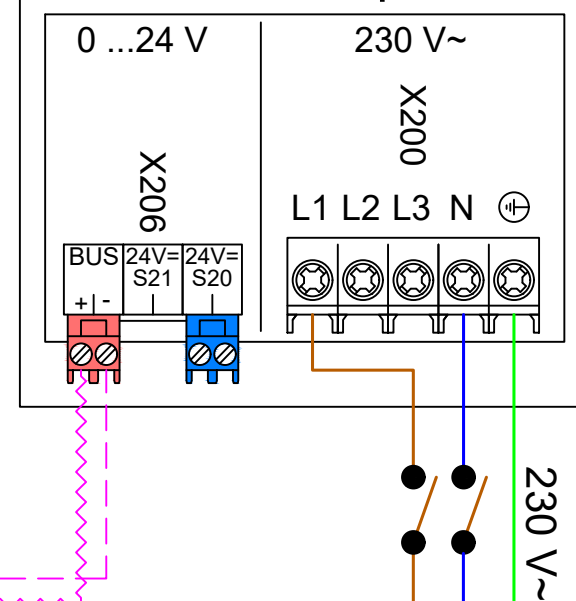
UFH 1 DEMAND

UFH X DEMAND

12s

2a

Heat Pump



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Drawn: A. WILLIS

15/06/2020

REV:

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

Control(s): VRC 700

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

Domestic Hot Water: 1x Cylinder

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	1	2	3	4	5	6	7	8																																																												
A	30111-1011		Terms and Conditions for Vaillant Schematic Diagrams																																																																	
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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. <table><tr><td>Setting</td><td>Value</td></tr><tr><td colspan="2">System</td></tr><tr><td>Adaptive heat. curve</td><td>No</td></tr><tr><td>Configure heat. circ.</td><td>Zone1</td></tr><tr><td>Hybrid manager</td><td>Bivalence pt</td></tr><tr><td>Heat. bivalence point</td><td>-20°</td></tr><tr><td>DHW bivalence point</td><td>-20°</td></tr><tr><td>Energy supplier</td><td>Heat. off</td></tr><tr><td>Auxiliary heater for</td><td>Inactive</td></tr><tr><td colspan="2">System diagram configuration</td></tr><tr><td>System diagram</td><td>10</td></tr><tr><td colspan="2">Additional module</td></tr><tr><td>Multi-function.output2</td><td>Circ. pump</td></tr><tr><td>Aux. heater output</td><td>Off</td></tr><tr><td colspan="2">HEATING1</td></tr><tr><td>Type of circuit</td><td>Heating</td></tr><tr><td>Max limit outs.temp.</td><td>30°</td></tr><tr><td>Heating curve</td><td>**Site specific</td></tr><tr><td>Minimum temperature</td><td>15°</td></tr><tr><td>Maximum temperature</td><td>45°</td></tr><tr><td>Auto Off mode</td><td>Eco</td></tr><tr><td>Room temp. mod.</td><td>None</td></tr><tr><td colspan="2">Zone 1</td></tr><tr><td>Zone activated:</td><td>Yes</td></tr><tr><td>Zone assignment:</td><td>Without</td></tr><tr><td colspan="2">DHW circuit</td></tr><tr><td>Cylinder</td><td>active</td></tr><tr><td>Anti-legionella day</td><td>**User preference</td></tr><tr><td>Anti-legionella time</td><td>**User preference</td></tr><tr><td>Cylinder boost offset</td><td>15 K</td></tr><tr><td>DHW req. anti-cy time</td><td>5 min</td></tr></table>								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	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
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E								A 15/06/2020 Electric Meter & rotary isolation added to outdoor module. 2,E Immersion removed, secondary circulation pump added. 8,E <table><tr><td>REV</td><td>DATE</td><td>DESCRIPTION</td><td>ZONE</td></tr><tr><td colspan="2">Domestic Cold Water</td><td></td><td></td></tr><tr><td colspan="2">Domestic Hot Water</td><td></td><td></td></tr><tr><td colspan="2">Heating Flow</td><td></td><td></td></tr><tr><td colspan="2">Heating Return</td><td></td><td></td></tr><tr><td colspan="2">Glycol Flow</td><td></td><td></td></tr><tr><td colspan="2">Glycol Return</td><td></td><td></td></tr><tr><td colspan="2">230/400V Wire</td><td></td><td></td></tr><tr><td colspan="2">Low Voltage Sensor Wire</td><td></td><td></td></tr><tr><td colspan="2">Low Voltage eBUS</td><td></td><td>BUS</td></tr><tr><td colspan="2">Low Voltage Demand Signal</td><td></td><td></td></tr><tr><td colspan="2">eBUS +</td><td></td><td></td></tr><tr><td colspan="2">eBUS -</td><td></td><td></td></tr><tr><td colspan="2">Indicates Cable Junction</td><td></td><td>BUS</td></tr><tr><td colspan="2">Indicates No. of cable cores</td><td></td><td>3</td></tr></table>	REV	DATE	DESCRIPTION	ZONE	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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5		6		7		8																																																														

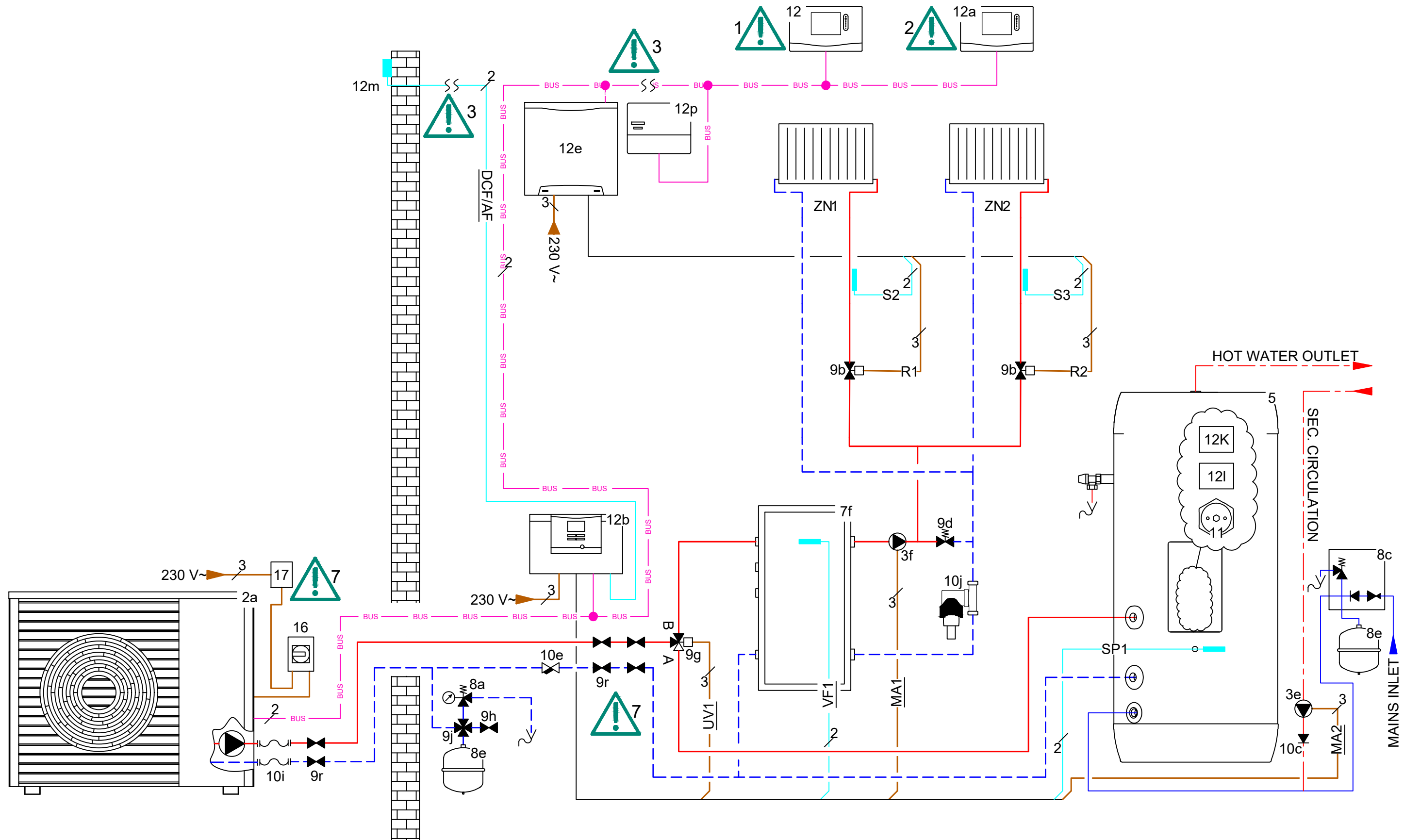
30120-1012



-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)



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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

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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.

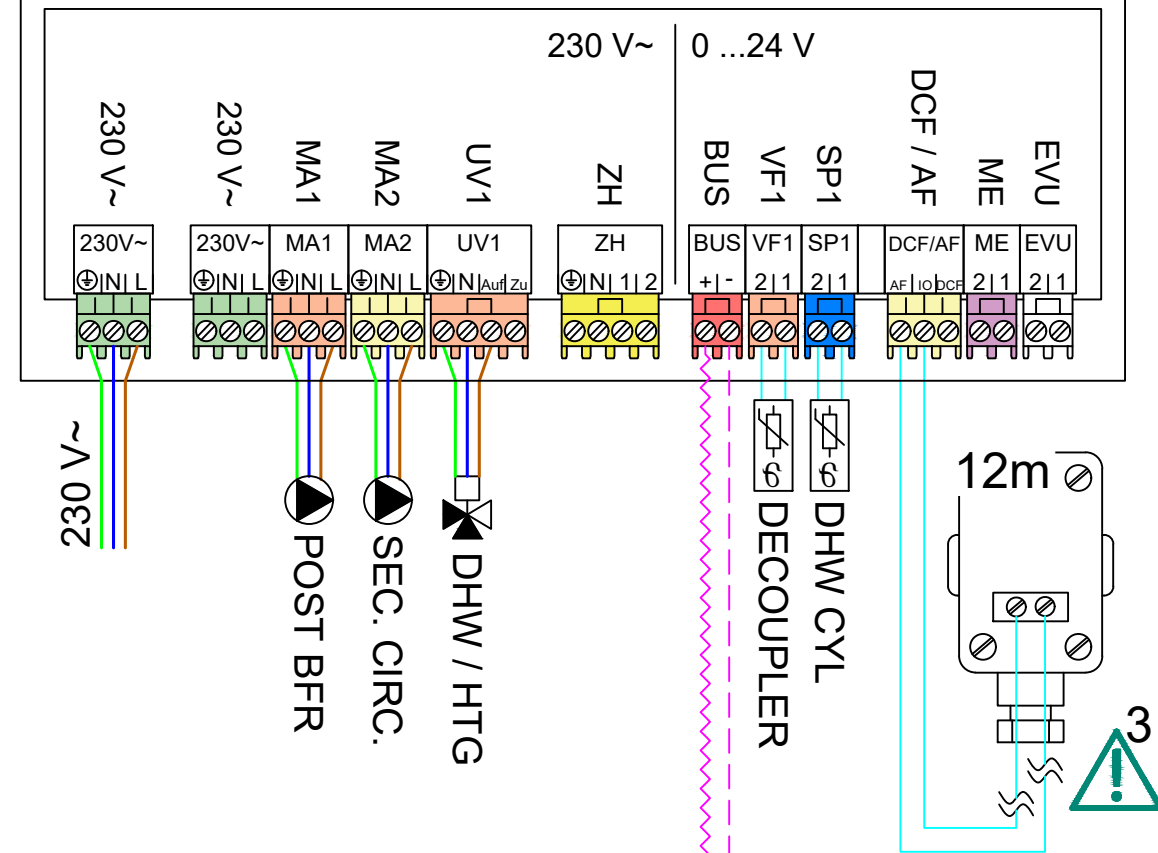
3. Controls and outdoor sensor can be wired or wireless

7. For meter ready requirements (RHI)



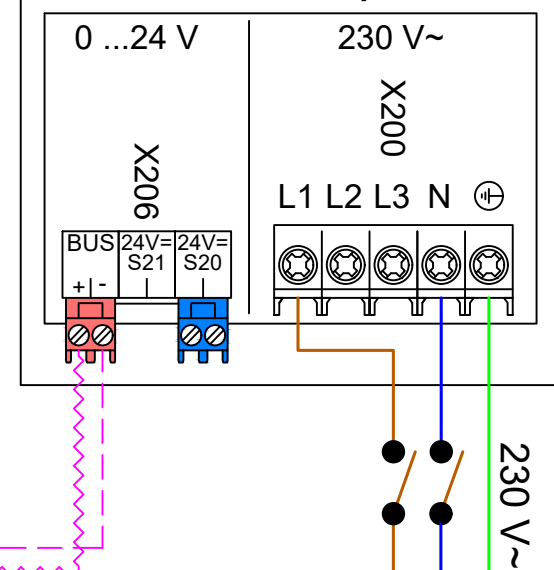
12b

Heatpump Interface

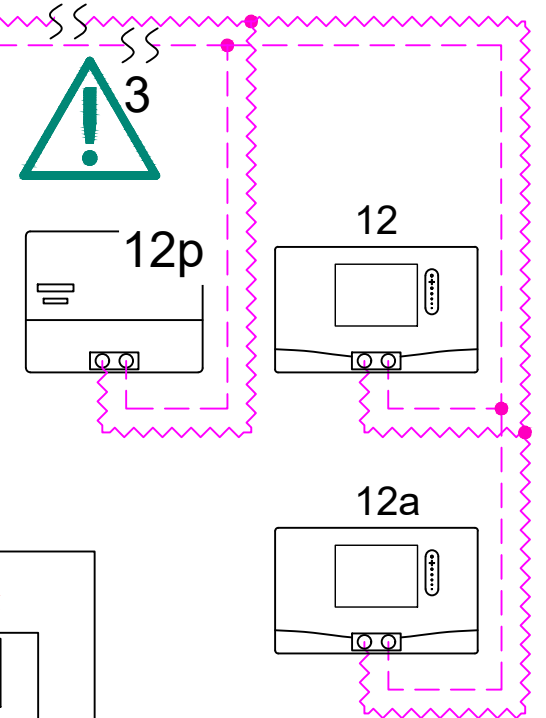
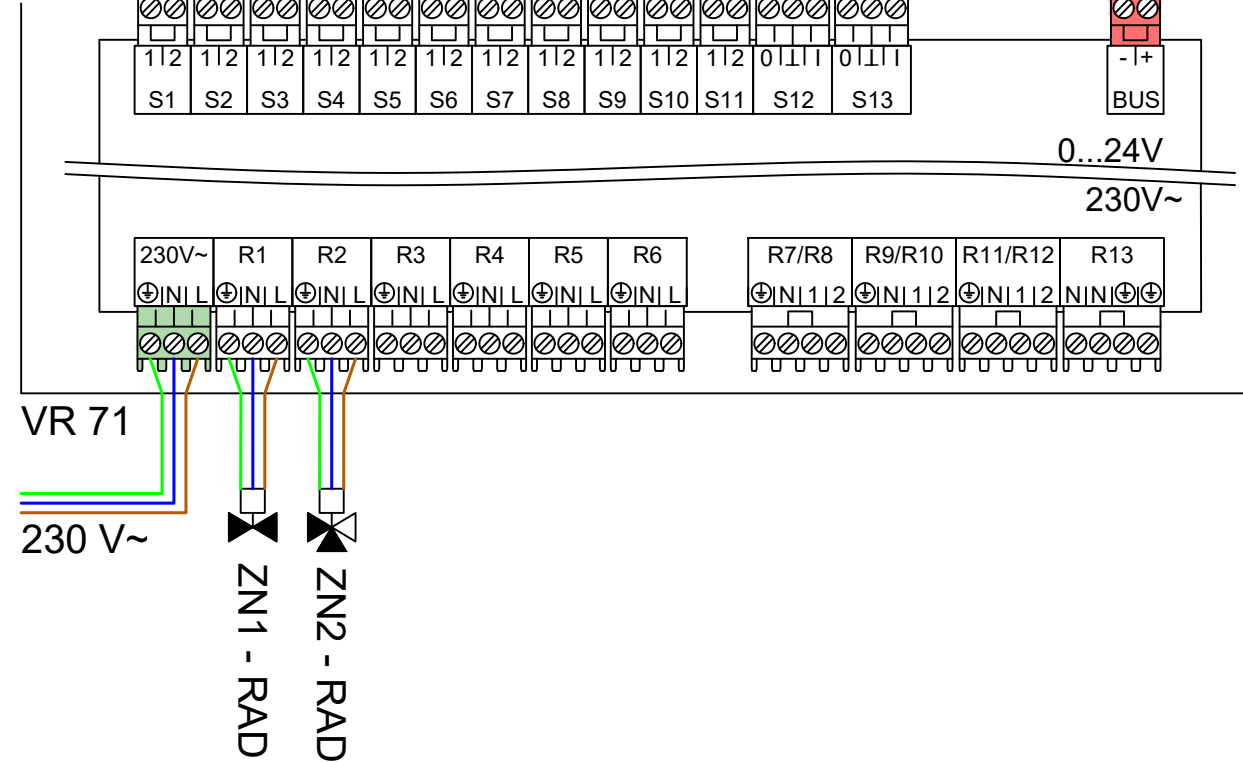


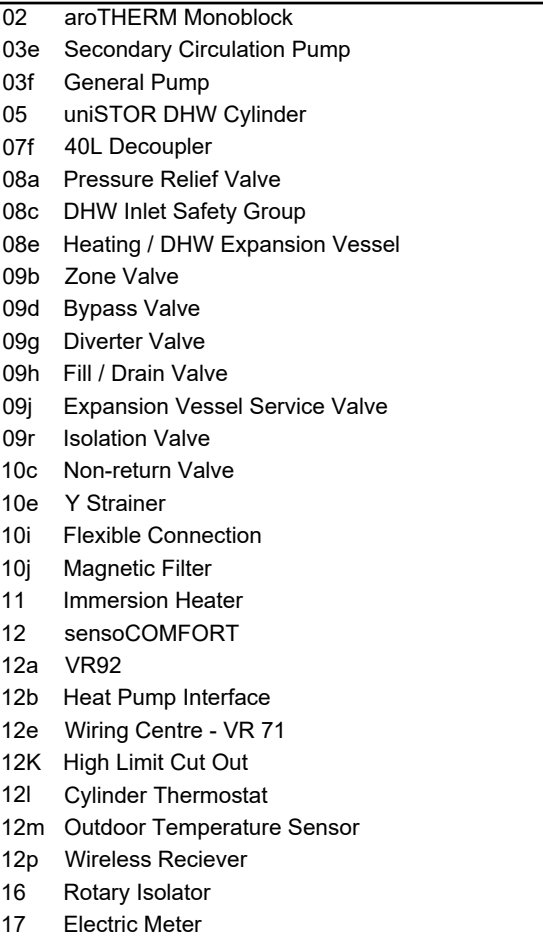
2a

Heat Pump



12e





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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.

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

Page 3 / 3

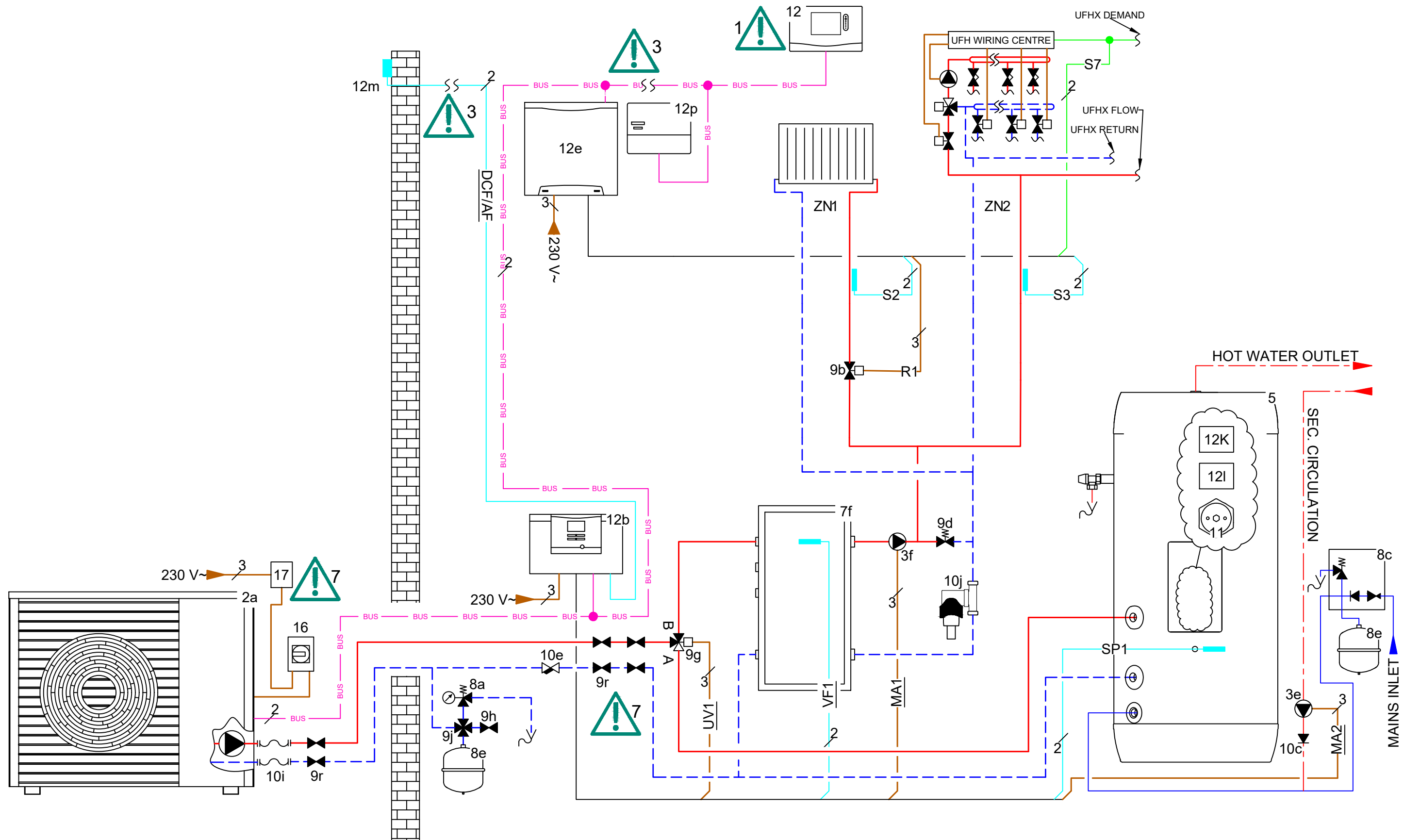
30121-1012



-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

Page 1 / 3

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

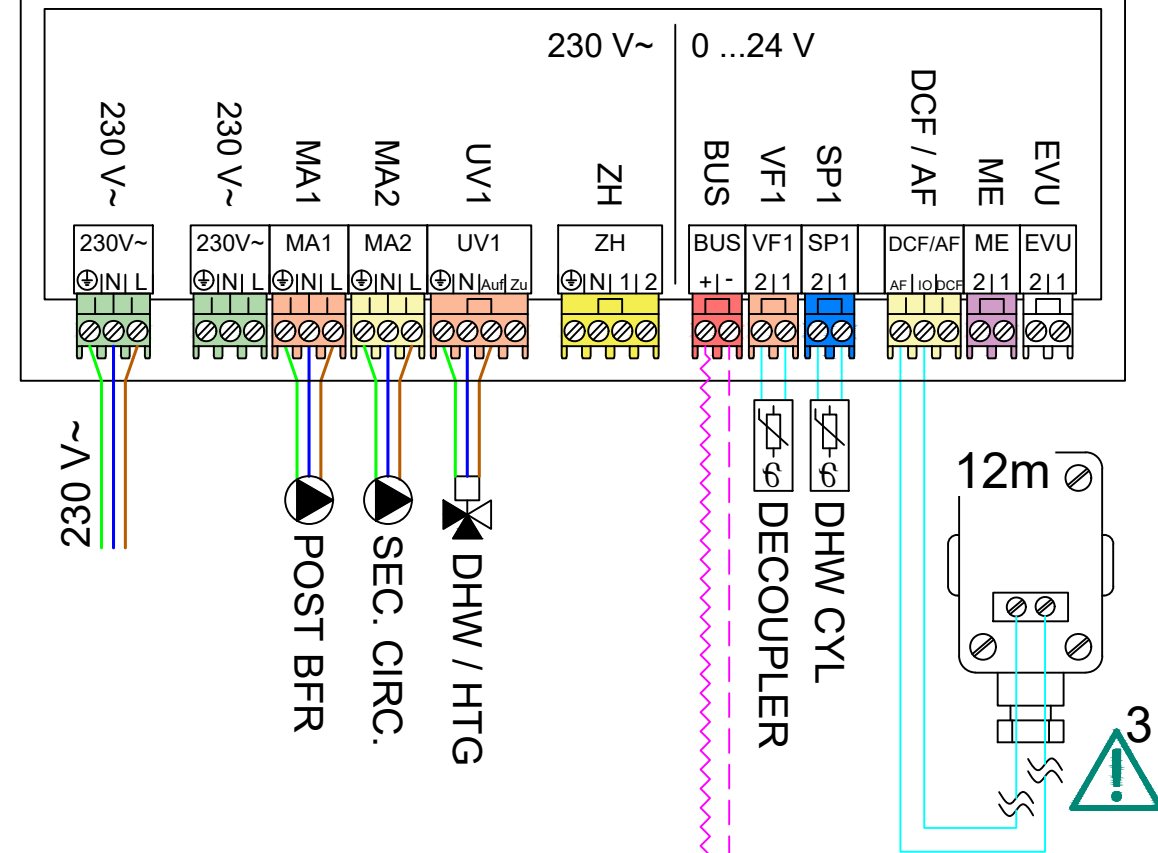
4. Link required (not factory fitted).

7. For meter ready requirements (RHI)



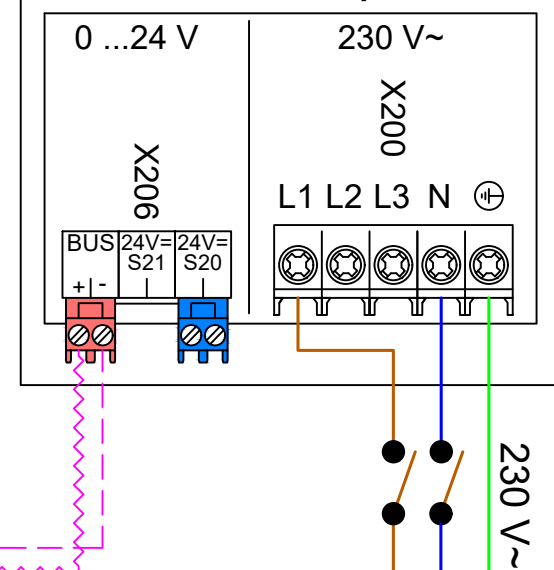
12b

Heatpump Interface

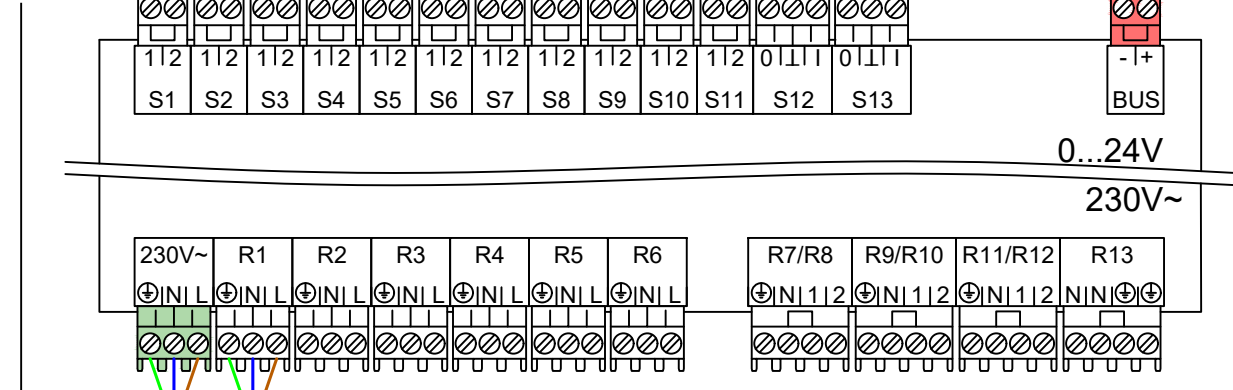


2a

Heat Pump



12e

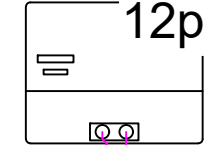


VR 71

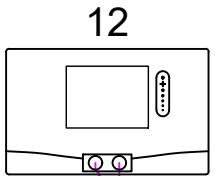
230 V~

ZN1 - RAD
ZN2 - UFH
ZN1 - RADUFH
DEMANDUFH X
DEMAND

3



12p



12



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- | | |
|-----|--------------------------------|
| 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 | sensCOMFORT |
| 12b | Heat Pump Interface |
| 12e | Wiring Centre - VR 71 |
| 12K | High Limit Cut Out |
| 12l | Cylinder Thermostat |
| 12m | Outdoor Temperature Sensor |
| 12p | Wireless Receiver |
| 16 | Rotary Isolator |
| 17 | Electric Meter |

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	Setting	Value
Installation		Circuit 2	
Adapt. heat curve:	Deactivated	Circuit type:	Heating
Hybrid manager:	Bivalence pt	OT switch-off threshold:	30°
Heating bivalence point:	-20°	Heat curve:	**Site specific
DHW bivalence point:	-20°	Min. target flow temperature:	15°
Alternative point:	Off	Max. target flow temperature:	45°
ESCO:	Heating off	Set-back mode:	Eco
Back-up boiler:	Off	Room temp. mod.:	Inactive
Conf. ext. input:	Open, deactiv.	Zone 2	
Basic system diagram config.		Zone activated:	Yes
Basic system diagram code:	10	Zone assignment:	No assignmt
FM3 configuration:	3	Domestic hot water	
FM3 MO:	Not working	Cylinder:	Active
HP control module configuration		Anti-legio. day:	**User preference
MO 2:	Circulation pump	Anti-legio. time:	**User preference
Circuit 1		Cylinder charging offset:	15 K
Circuit type:	Heating	Cyl. charg. anti-cycl. time:	5 min
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		

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

REV	DATE	DESCRIPTION	ZONE
-----	------	-------------	------

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 BUS

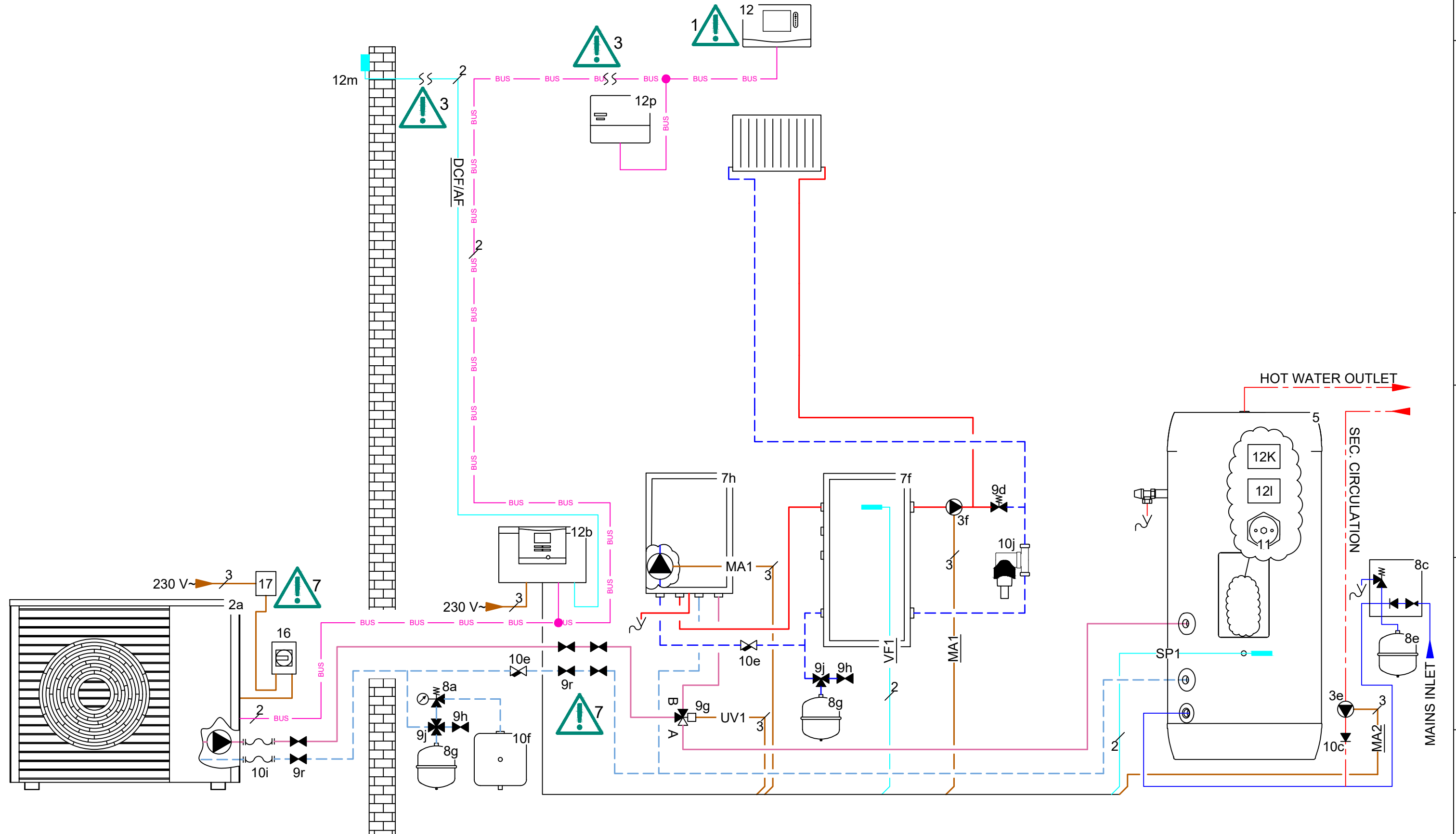
Indicates No. of cable cores 

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

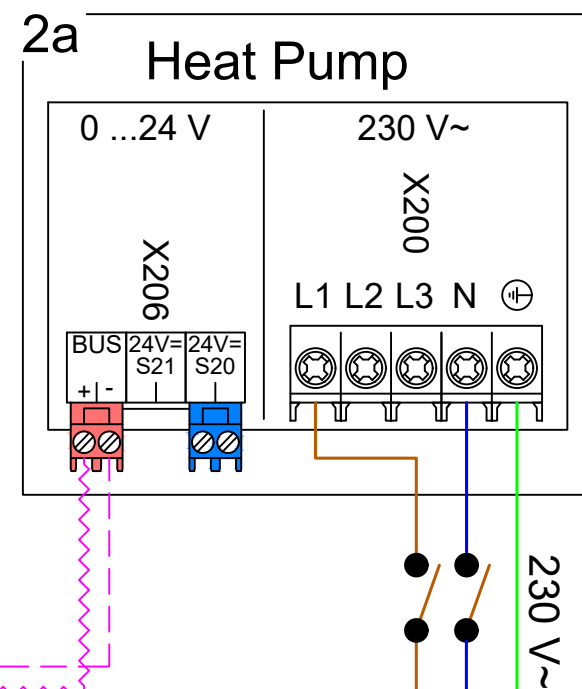
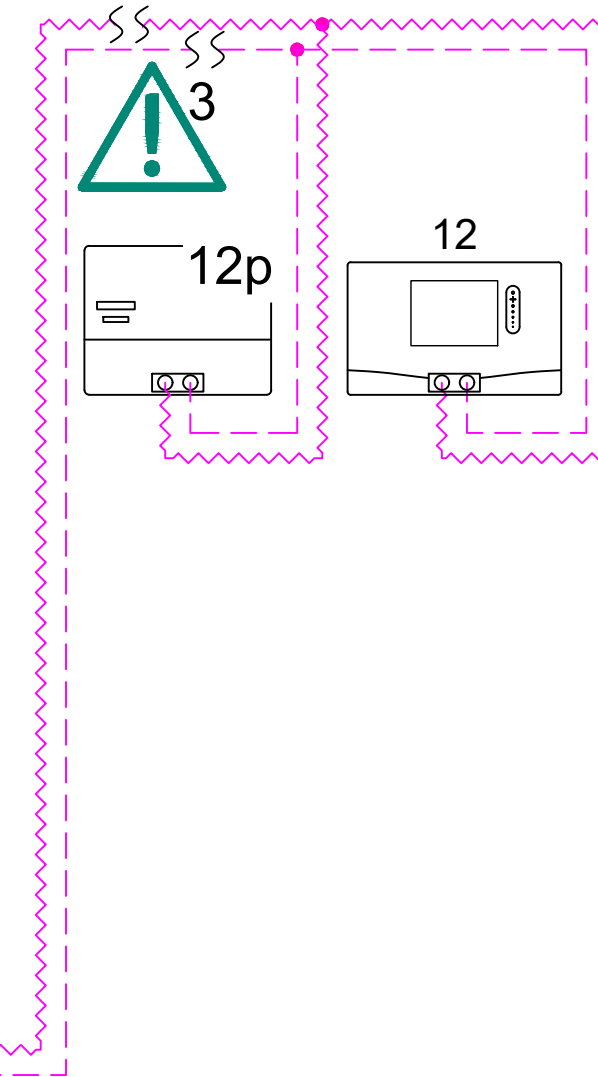
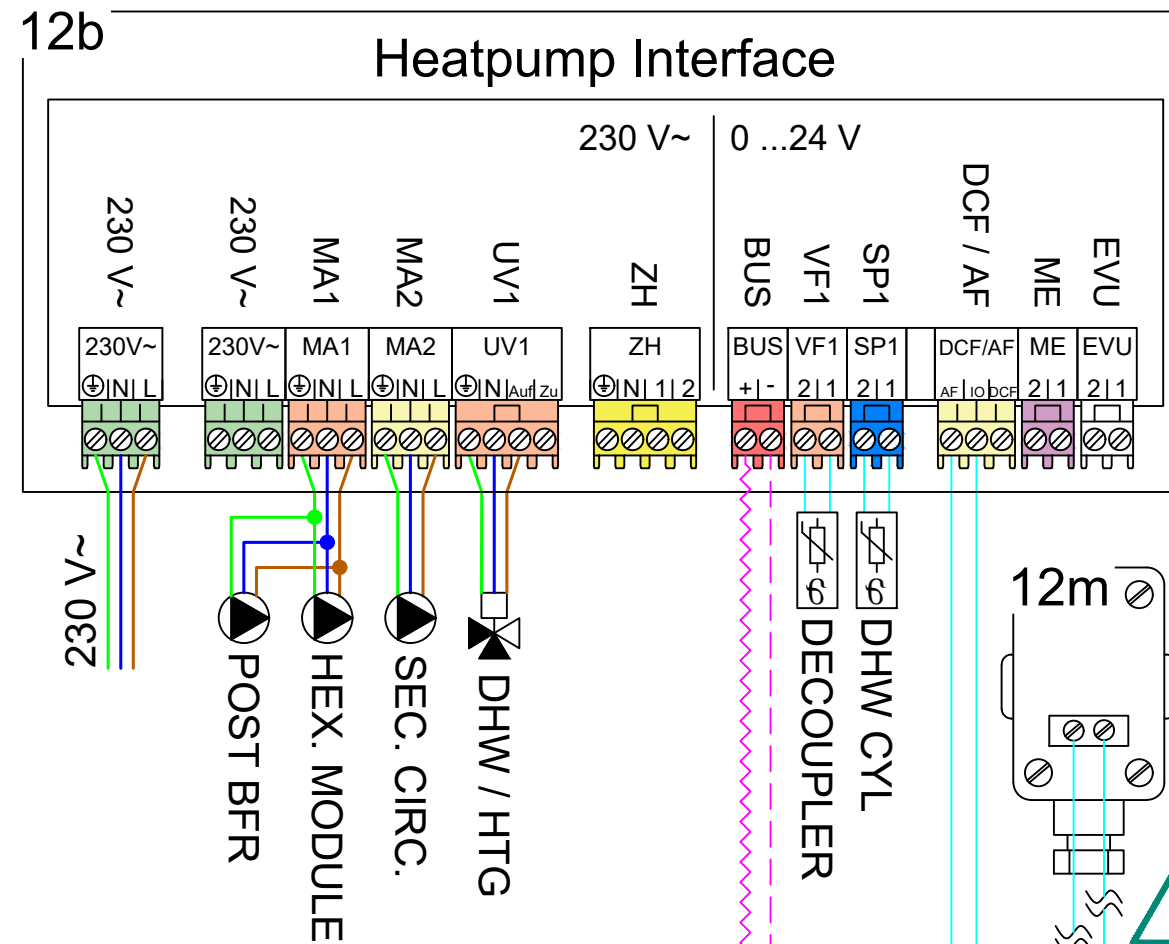
Appliance(s): aroTHERM Mono, Heat Ex. Module, Buffer (40L Decoupler)

Control(s): sensoCOMFORT

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

Domestic Hot Water: 1x Cylinder

Page 1 / 3

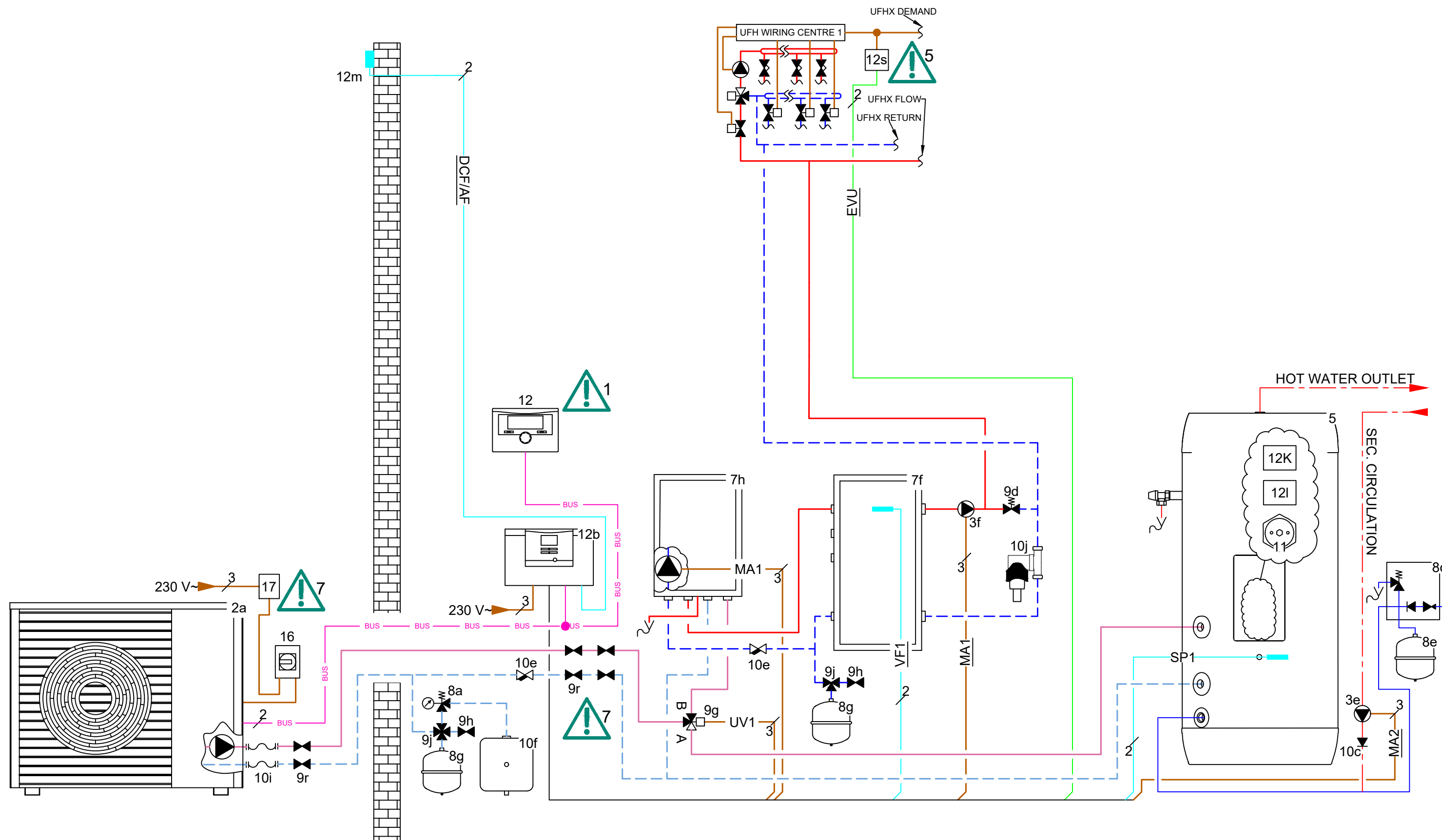


30241-1011



-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

Page 1 / 3

30241-1011



-See page 2 for detailed wiring.

1. See page 3 for relevant controller system configuration settings.

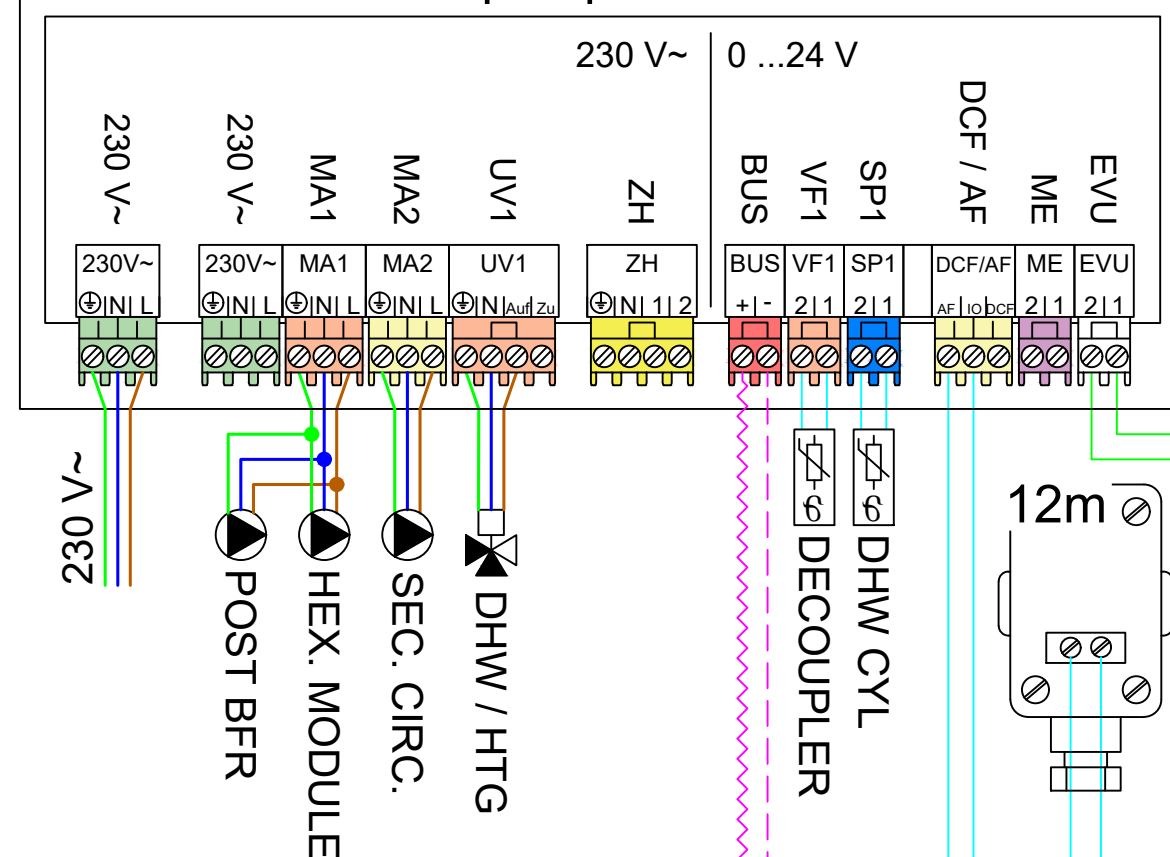
5. DPDT Relay (not supplied by Vaillant). See page 2 for detailed wiring.

7. For meter ready requirements (RHI)



12b

Heatpump Interface



UFH 1 DEMAND

UFH X DEMAND

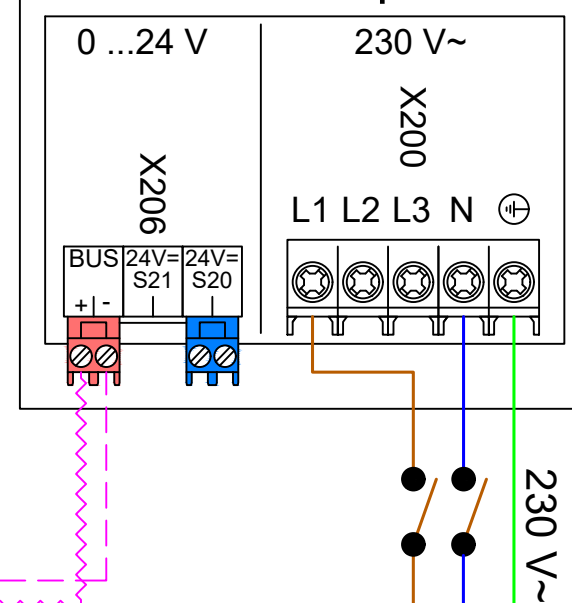
12s

12m

12

2a

Heat Pump



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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

Page 2 / 3

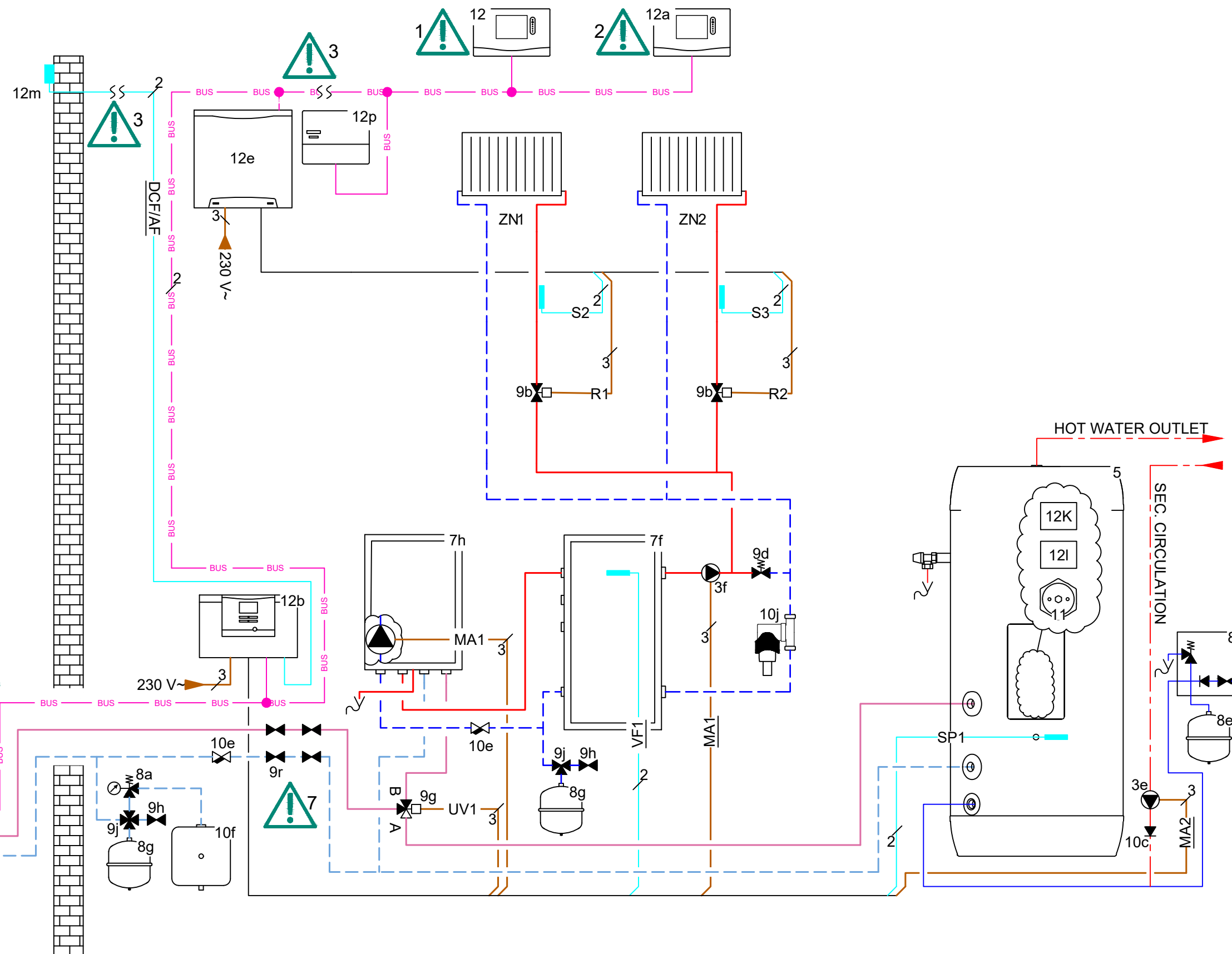
30250-1012



-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)



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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

Page 1 / 3

30250-1012



-See page 2 for detailed wiring.

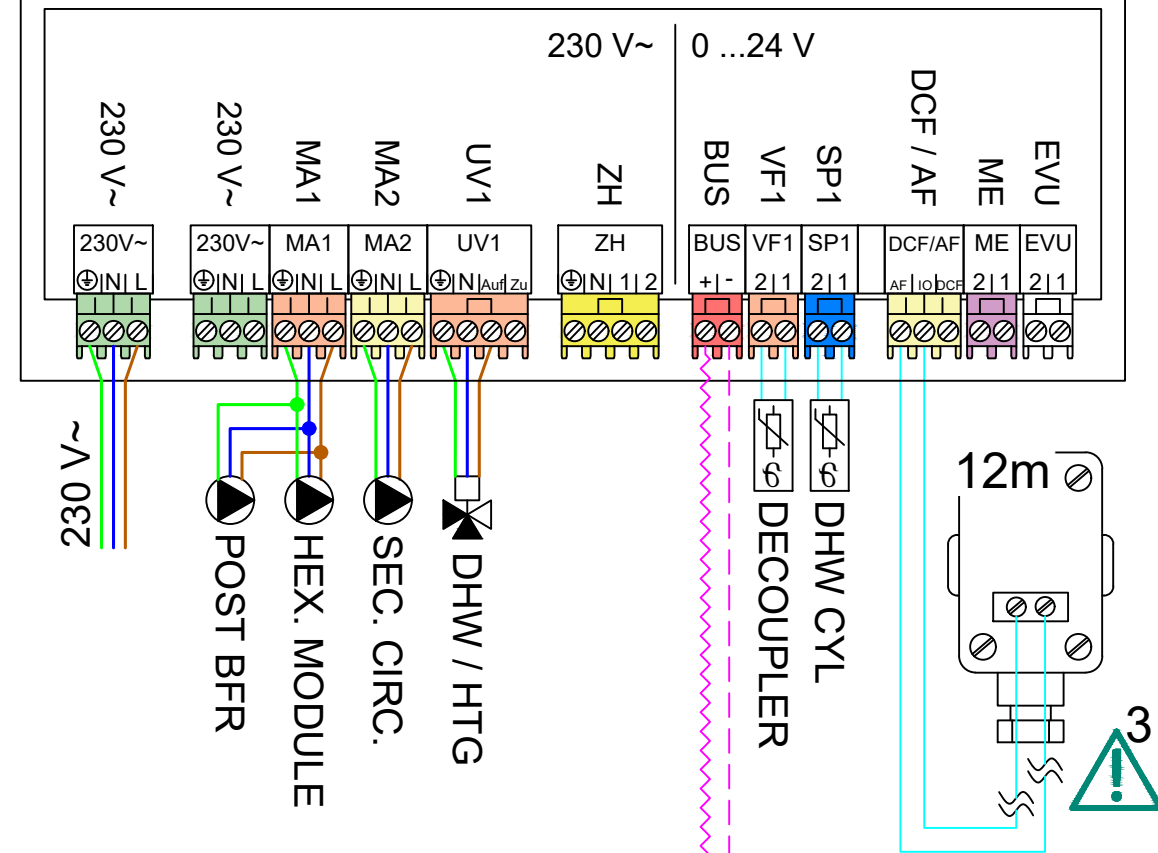
1. See page 3 for relevant controller system configuration settings.
2. Set VR92 remote address to its zone number - 1
eg. If VR92 is in zone 3, then remote address must be set to 2.

3. Controls and outdoor sensor can be wired or wireless
7. For meter ready requirements (RHI)



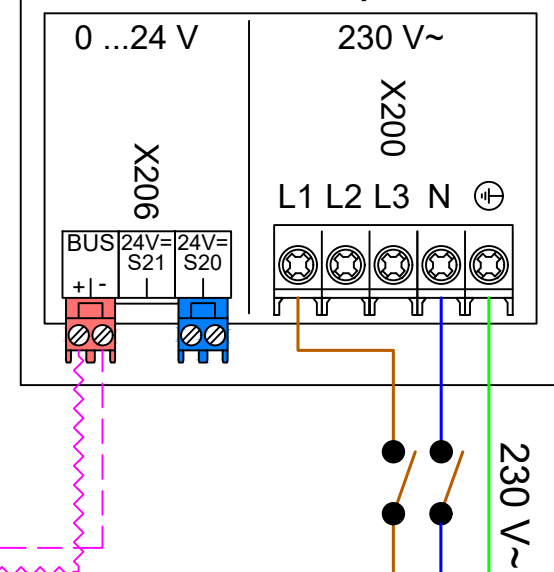
12b

Heatpump Interface

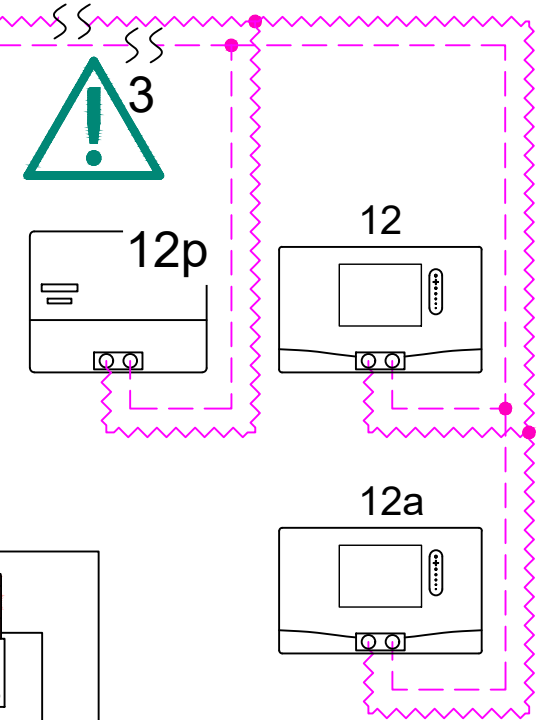
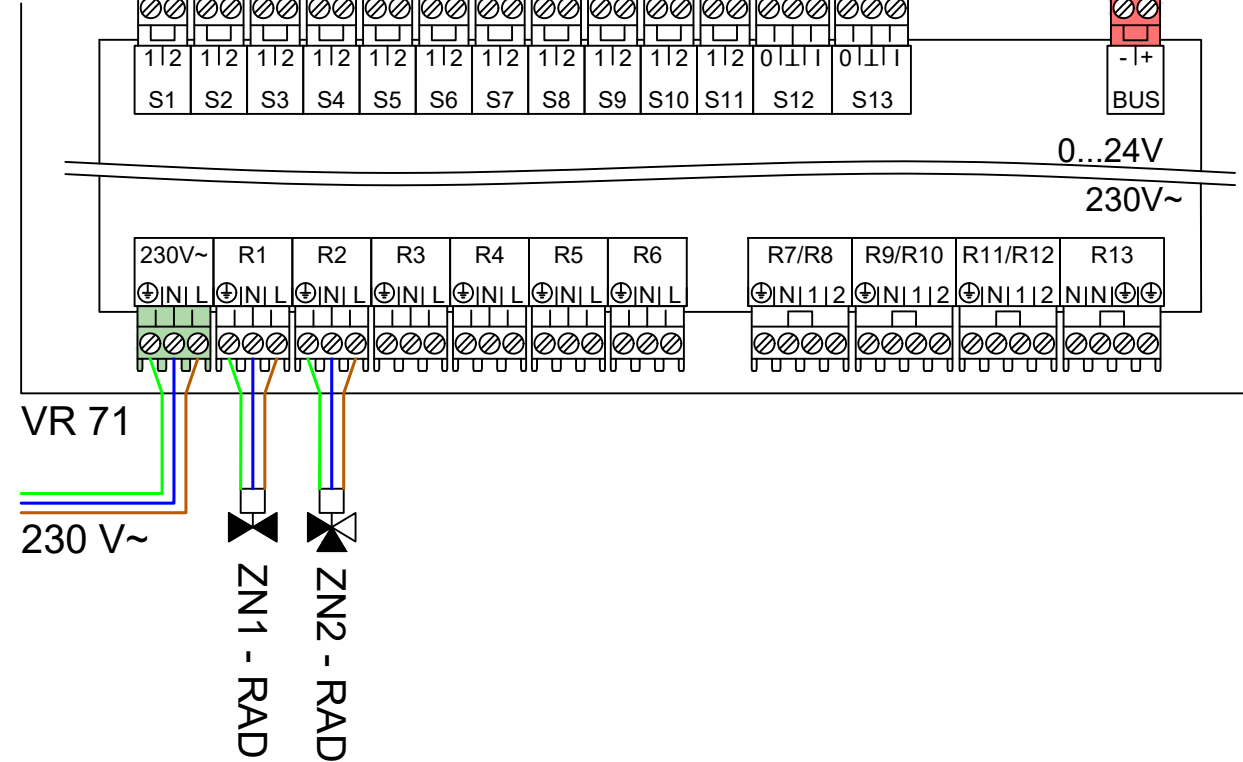


2a

Heat Pump



12e



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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

Page 2 / 3

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

- | | |
|-----|--------------------------------|
| 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 |

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
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

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

REV	DATE	DESCRIPTION	ZONE
-----	------	-------------	------

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 BUS

Indicates No. of cable cores 

Vaillant Group disclaimer: This drawing is supplied for information and general guidance only. No responsibility is accepted for any errors or omissions contained within or for any cost incurred in rectifying any work relating to it.

Drawn: A. WILLIS

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

16/06/2020

REV: A

A

Control(s): sensoCOMFORT. VR 92

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

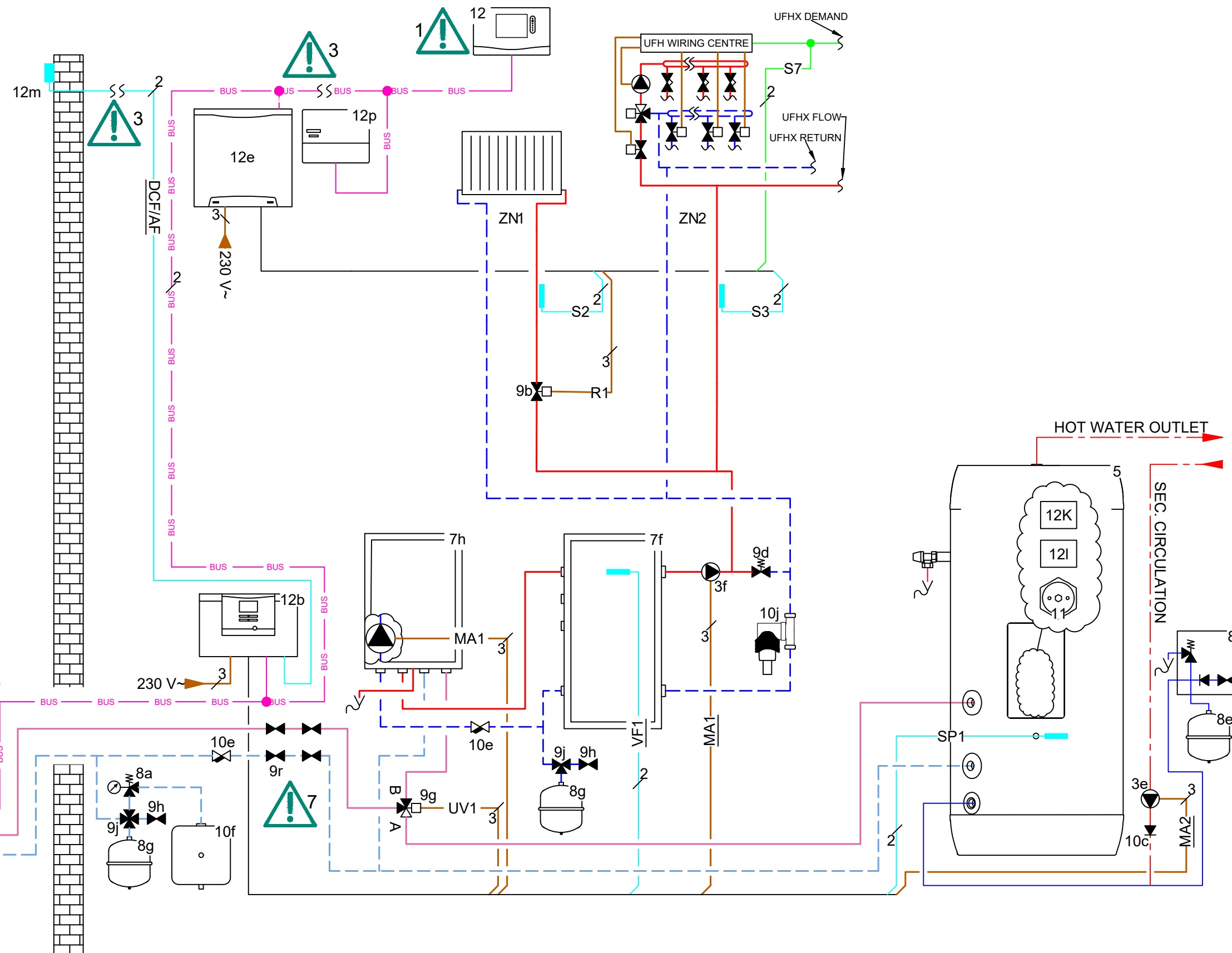
Domestic Hot Water: 1x Cylinder

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)



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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

Page 1 / 3

30251-1012



-See page 2 for detailed wiring.

1. See page 3 for relevant controller system configuration settings.

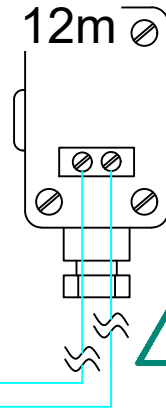
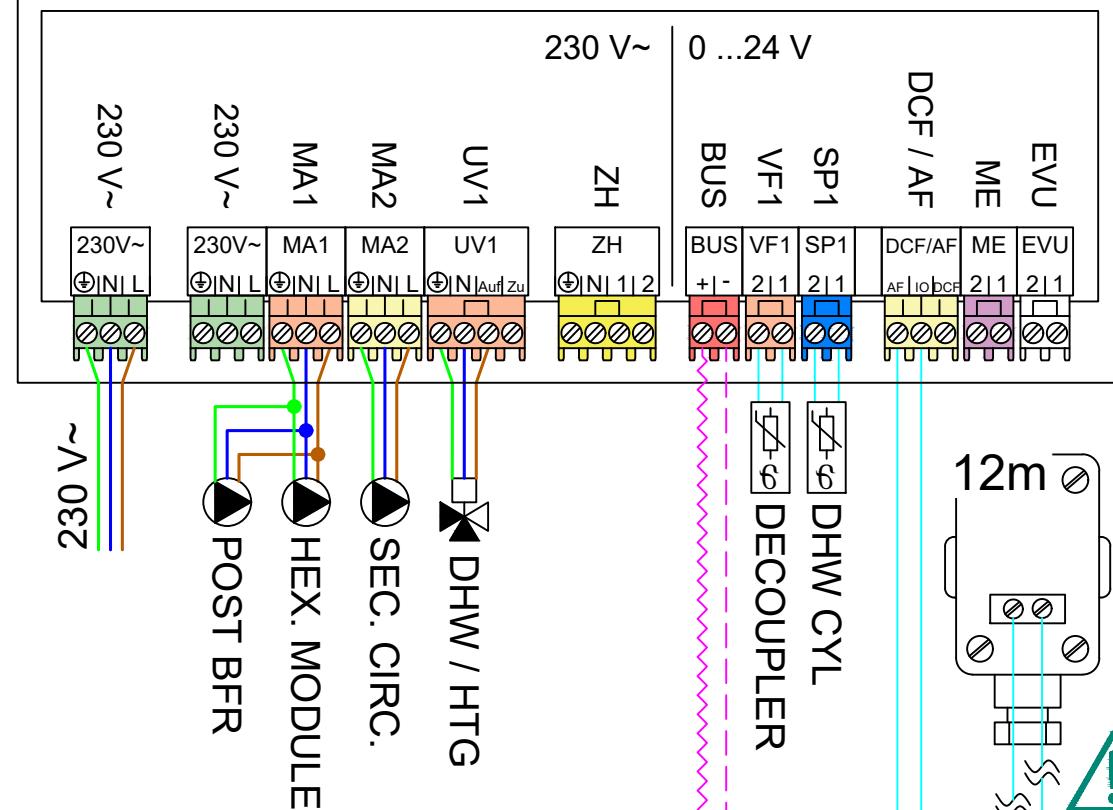
3. Controls and outdoor sensor can be wired or wireless

7. For meter ready requirements (RHI)



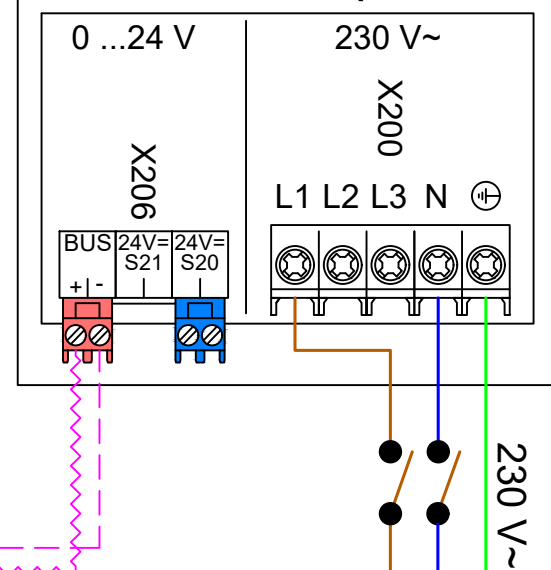
12b

Heatpump Interface

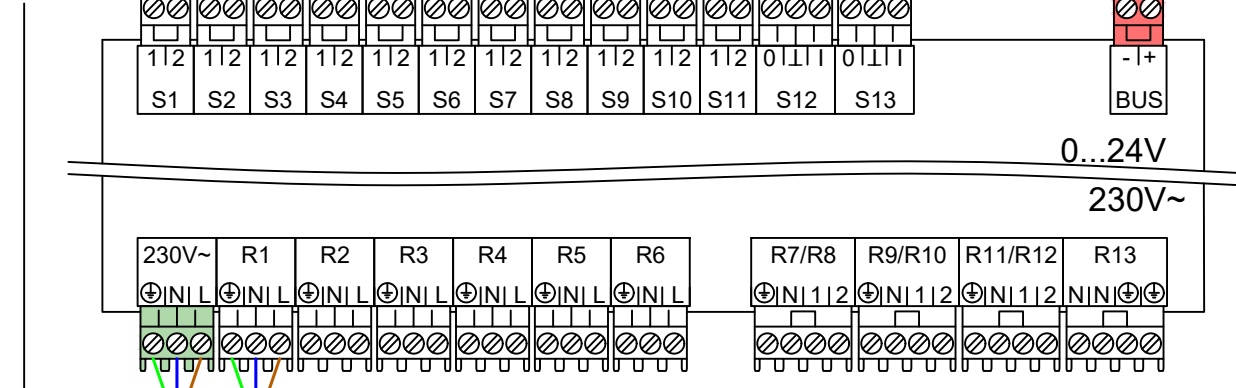


2a

Heat Pump



12e

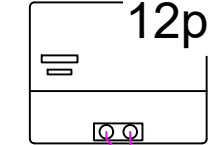


VR 71

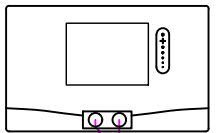
230 V~

ZN1 - RAD
ZN2 - UFH
ZN1 - RADUFH
DEMANDUFH X
DEMAND

3



12



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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

Page 2 / 3

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- | | |
|-----|--------------------------------|
| 02 | aroTHERM Monoblock |
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| 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 |

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

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

REV	DATE	DESCRIPTION	ZONE
-----	------	-------------	------

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 BUS

Indicates No. of cable cores 

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Drawn: A. WILLIS

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

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

16/06/2020

REV: A

Control(s): sensoCOMFORT

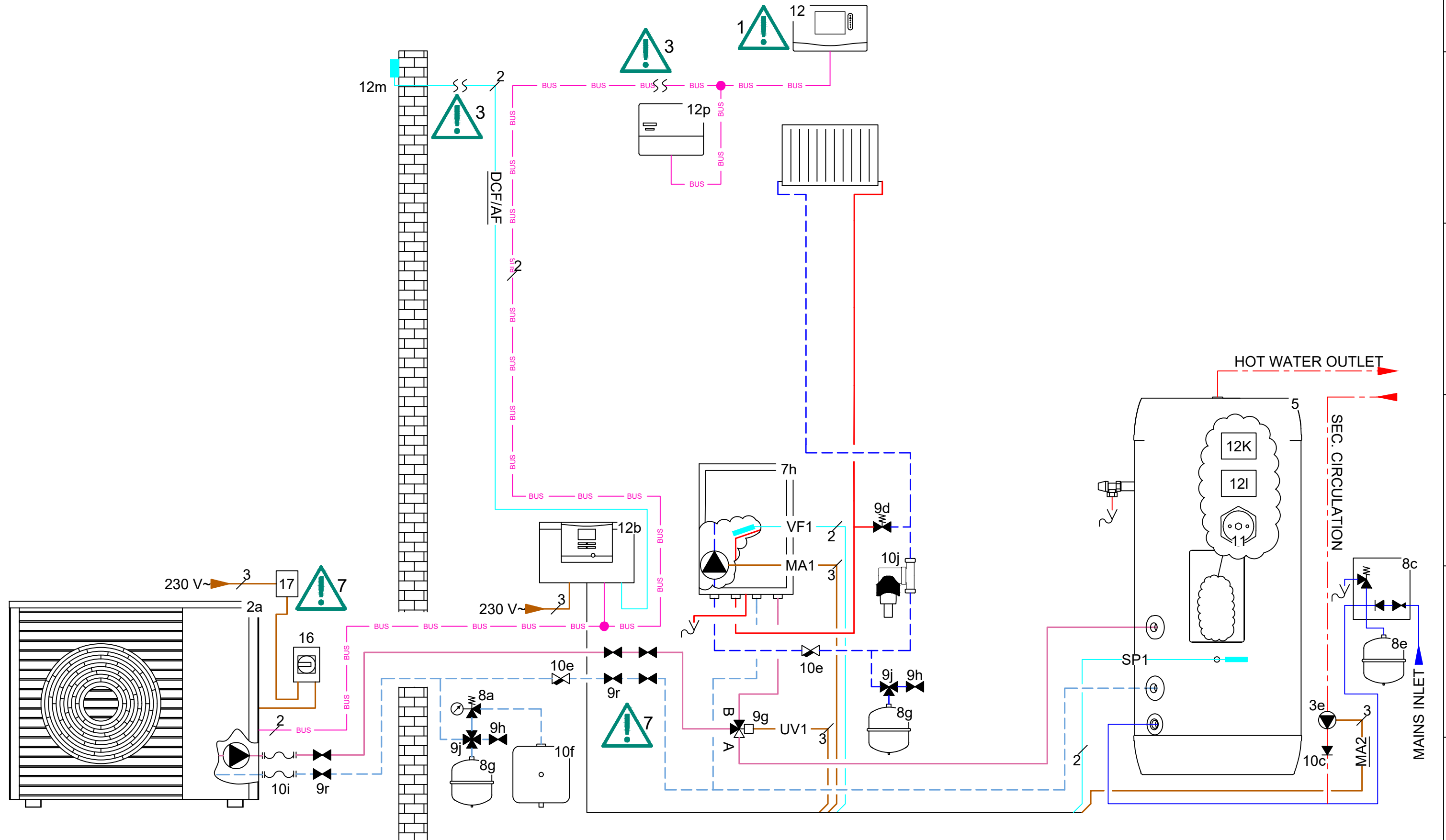
Domestic Hot Water: 1x Cylinder

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

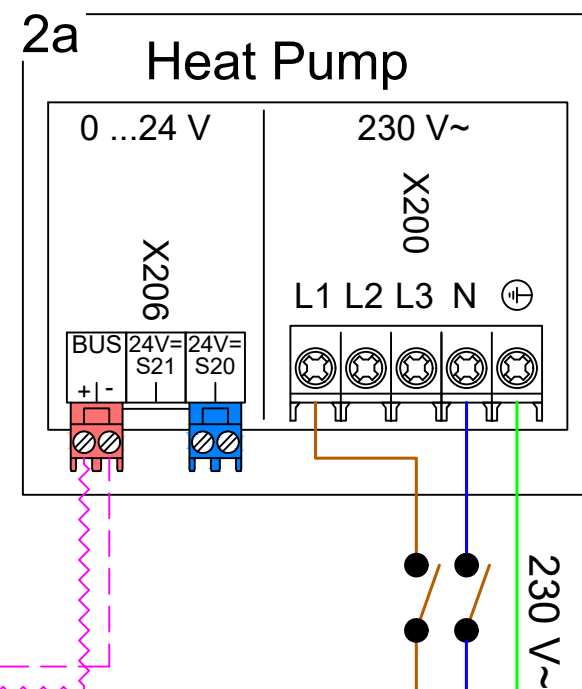
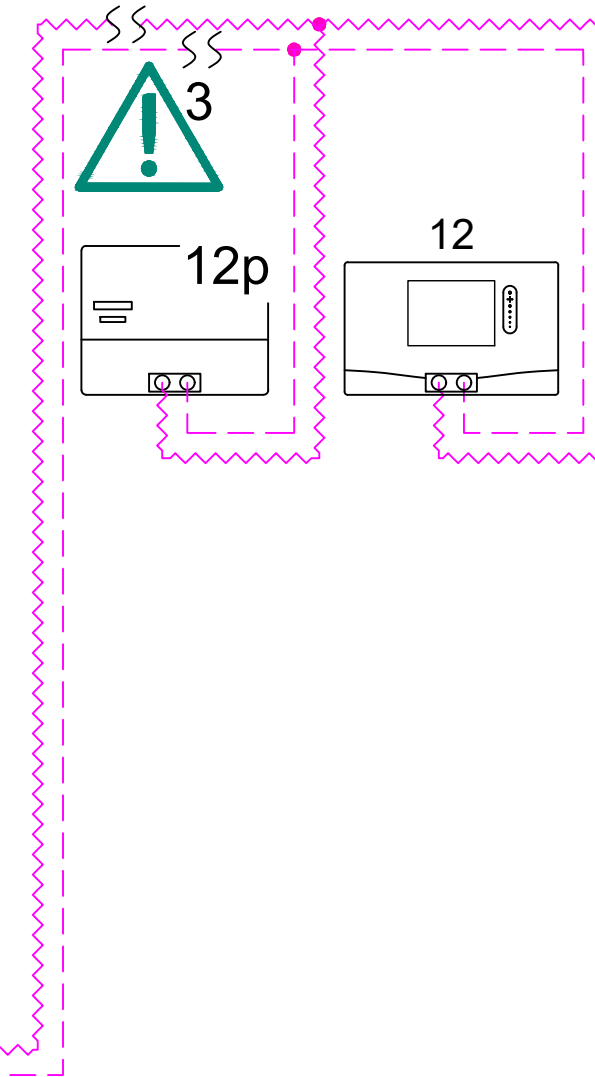
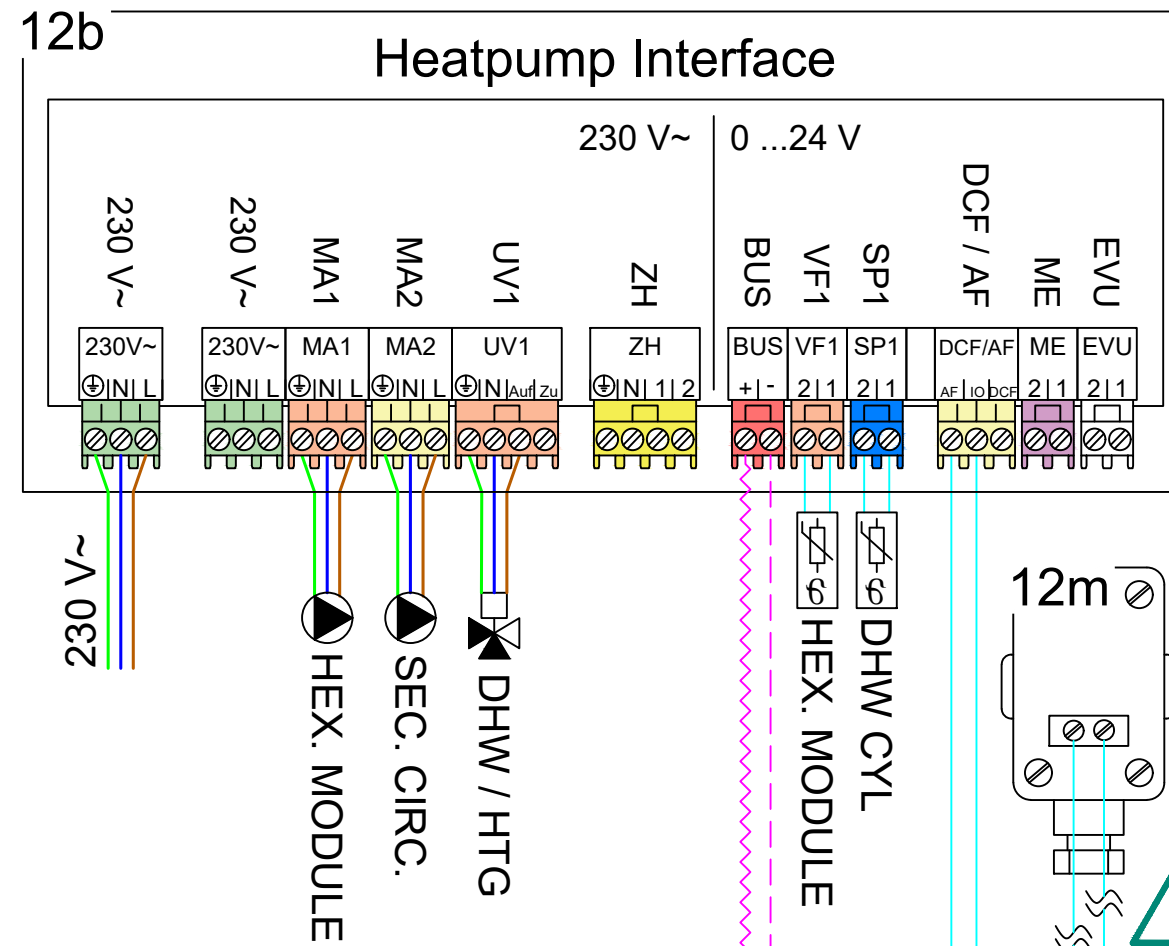
Appliance(s): aroTHERM Mono, Heat Ex. Module

Control(s): sensoCOMFORT

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

Domestic Hot Water: 1x Cylinder

Page 1 / 3

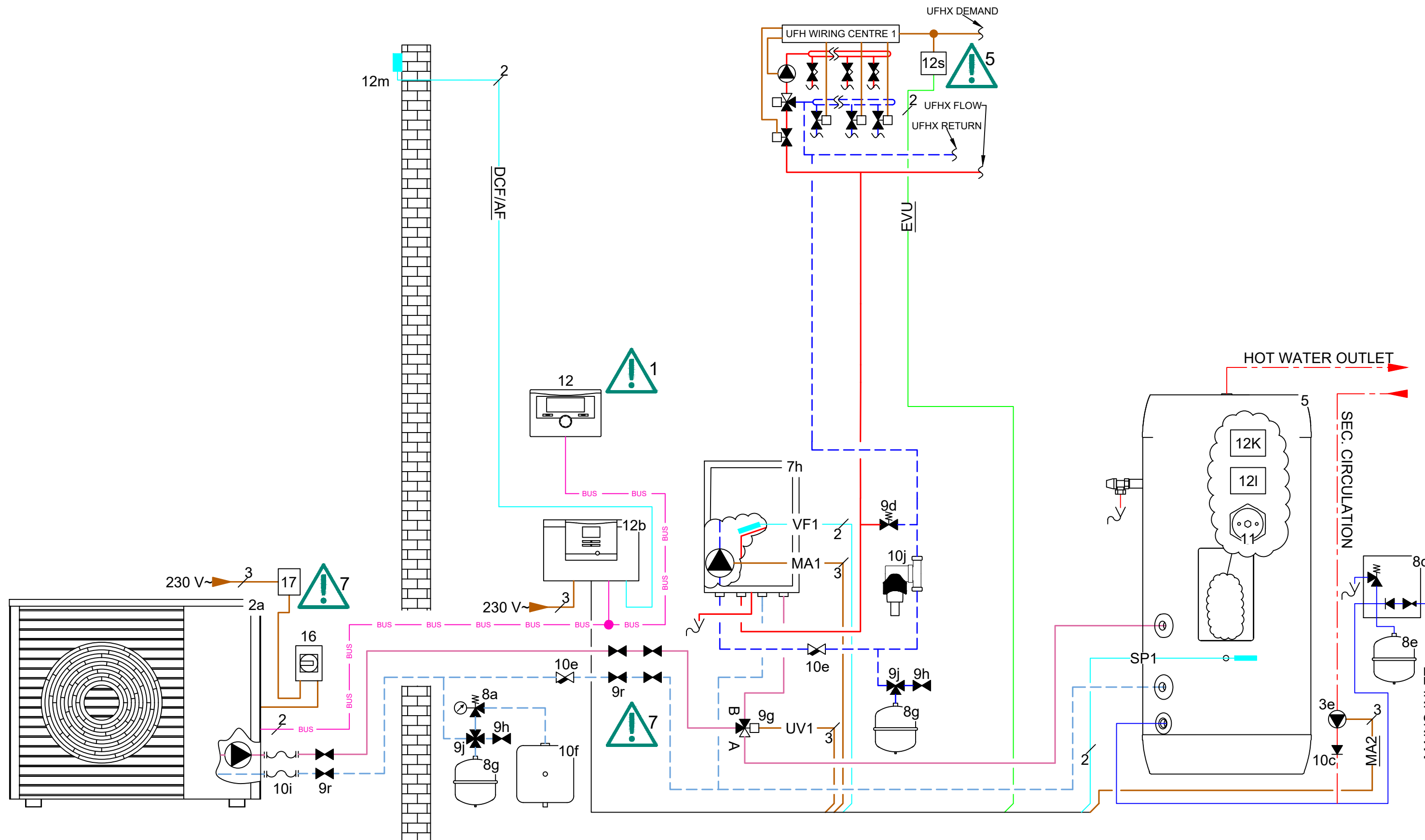


30131-1011



-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

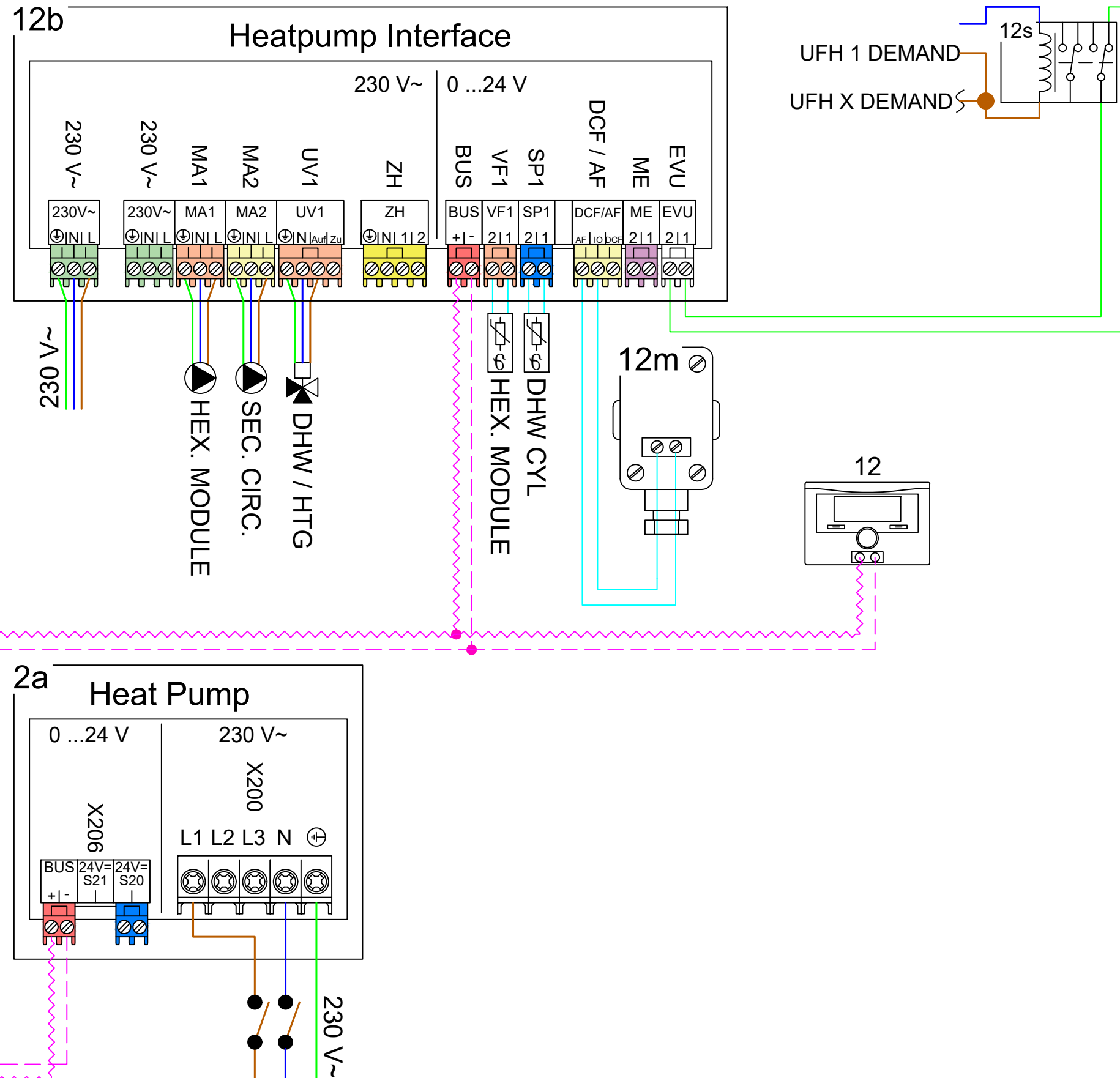
Appliance(s): aroTHERM Mono, Heat Ex. Module

Control(s): VRC 700

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

Domestic Hot Water: 1x Cylinder

Page 1 / 3



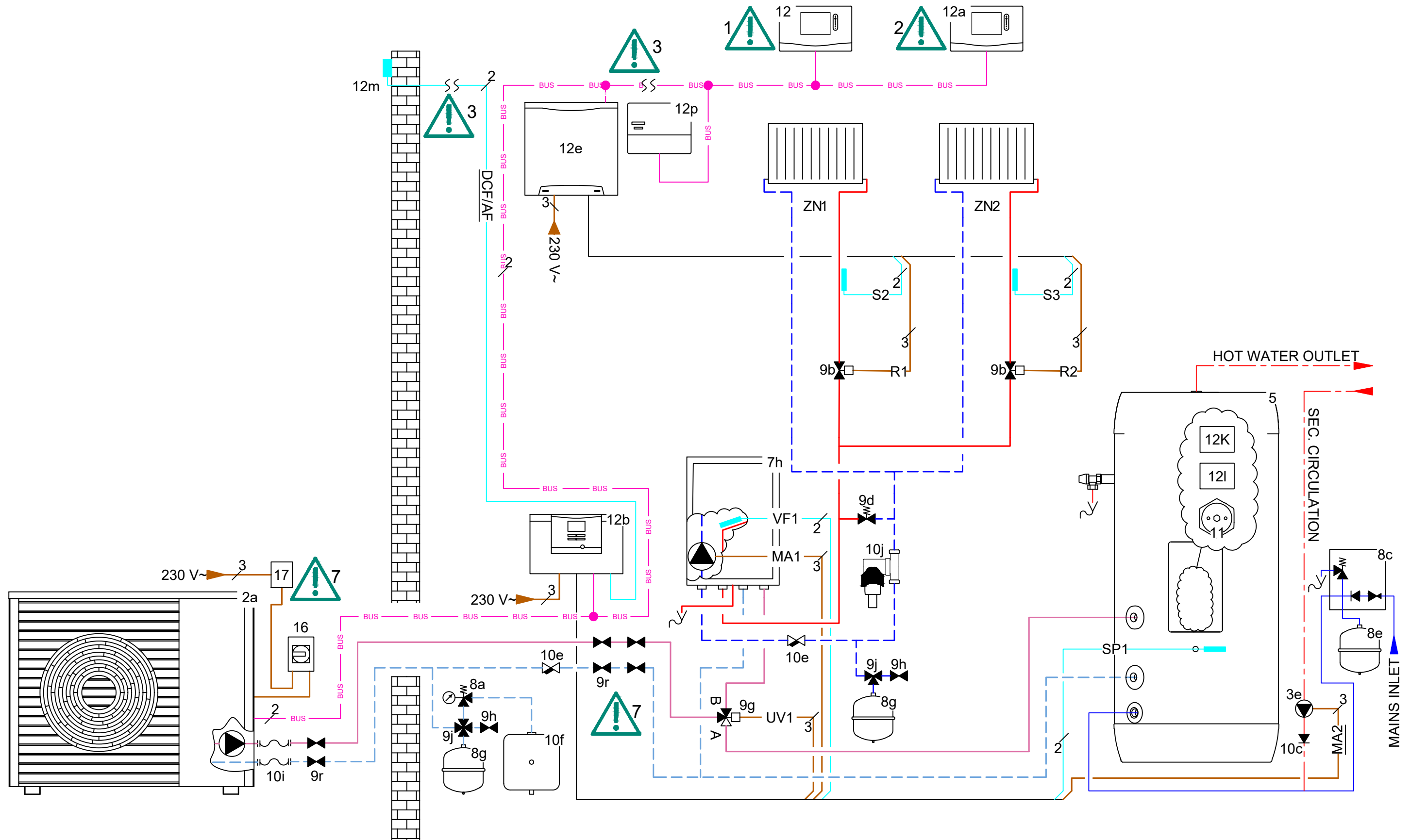
30140-1012



-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)



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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

Page 1 / 3

30140-1012



-See page 2 for detailed wiring.

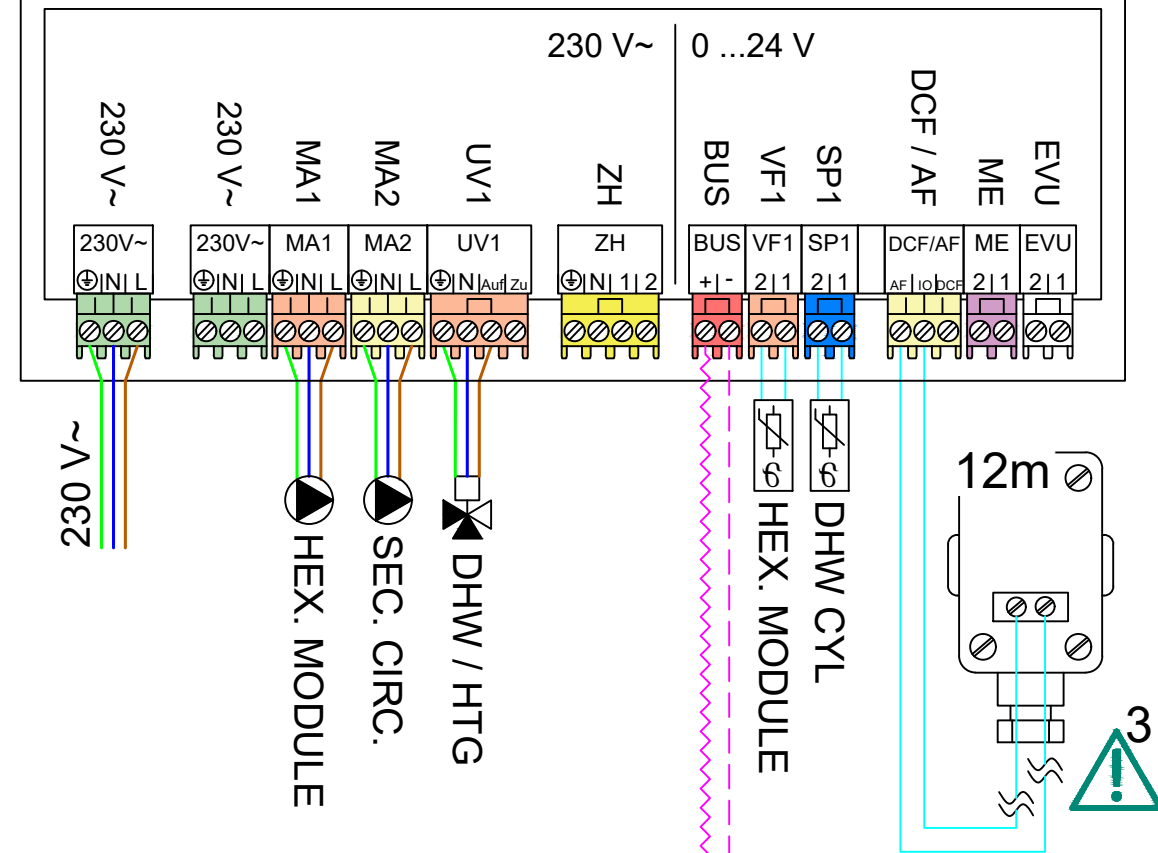
1. See page 3 for relevant controller system configuration settings.
2. Set VR92 remote address to its zone number - 1
eg. If VR92 is in zone 3, then remote address must be set to 2.

3. Controls and outdoor sensor can be wired or wireless
7. For meter ready requirements (RHI)



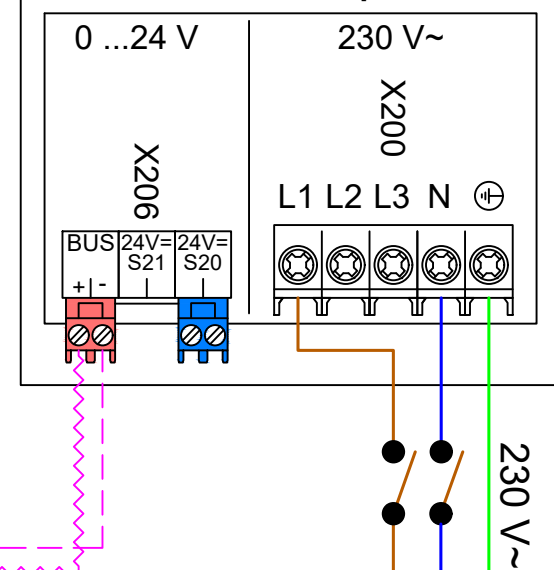
12b

Heatpump Interface

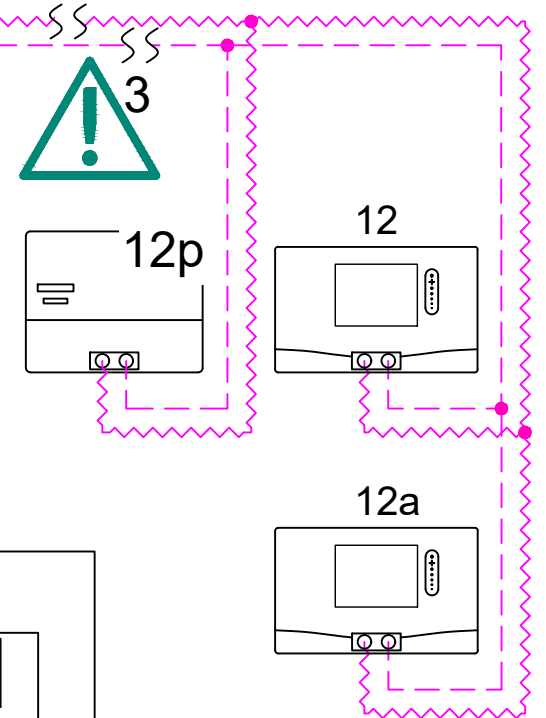
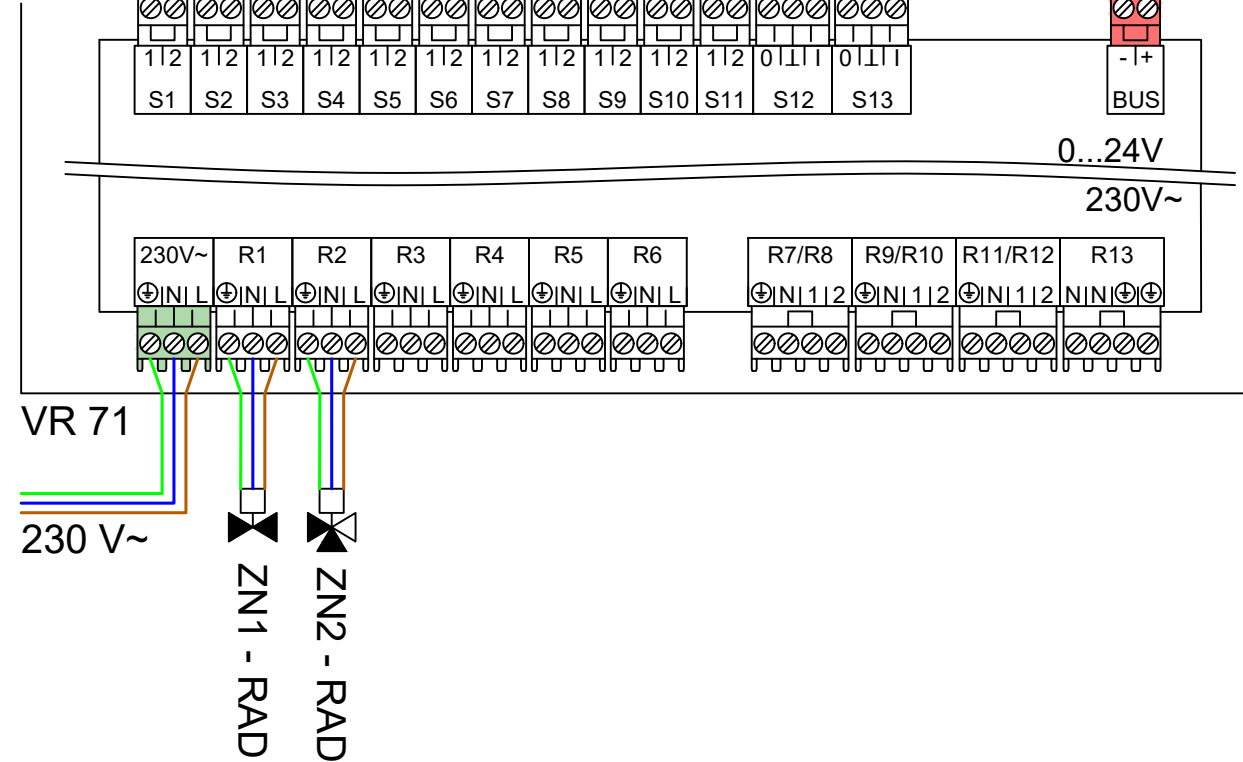


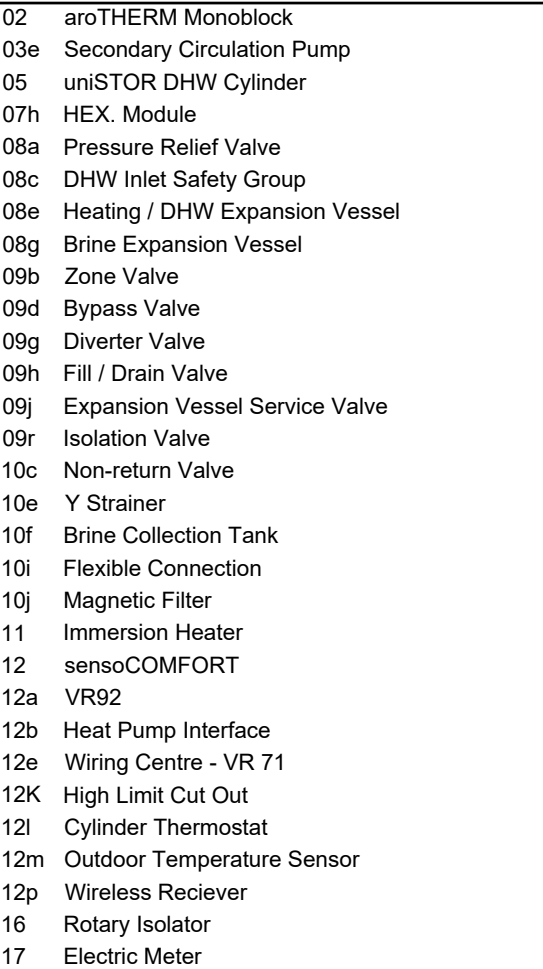
2a

Heat Pump



12e





1. All applicable laws and regulations must be followed.
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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.

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

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	

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

Domestic Hot Water: 1x Cylinder

Page 3 / 3

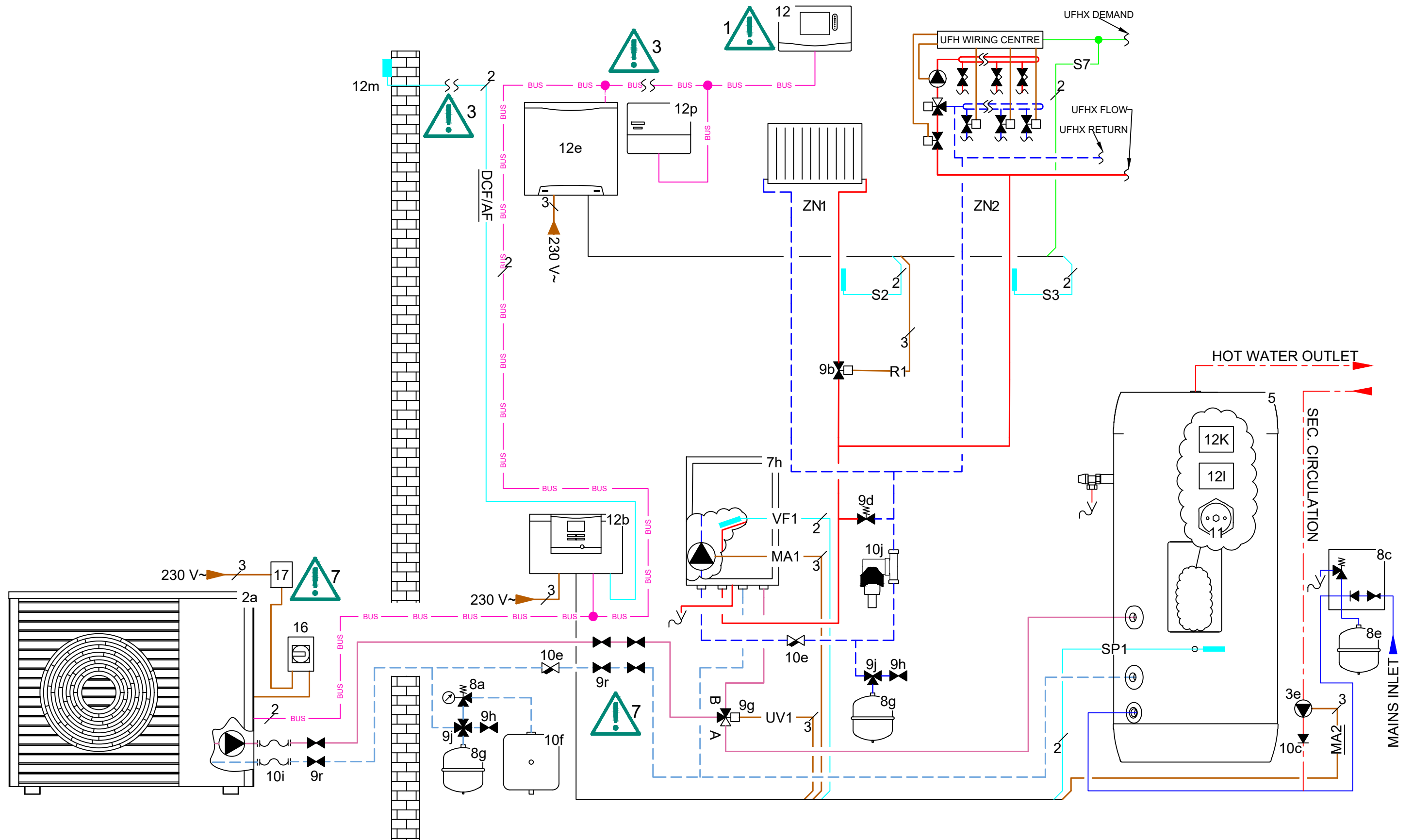
30141-1012



-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)



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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

Page 1 / 3

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.

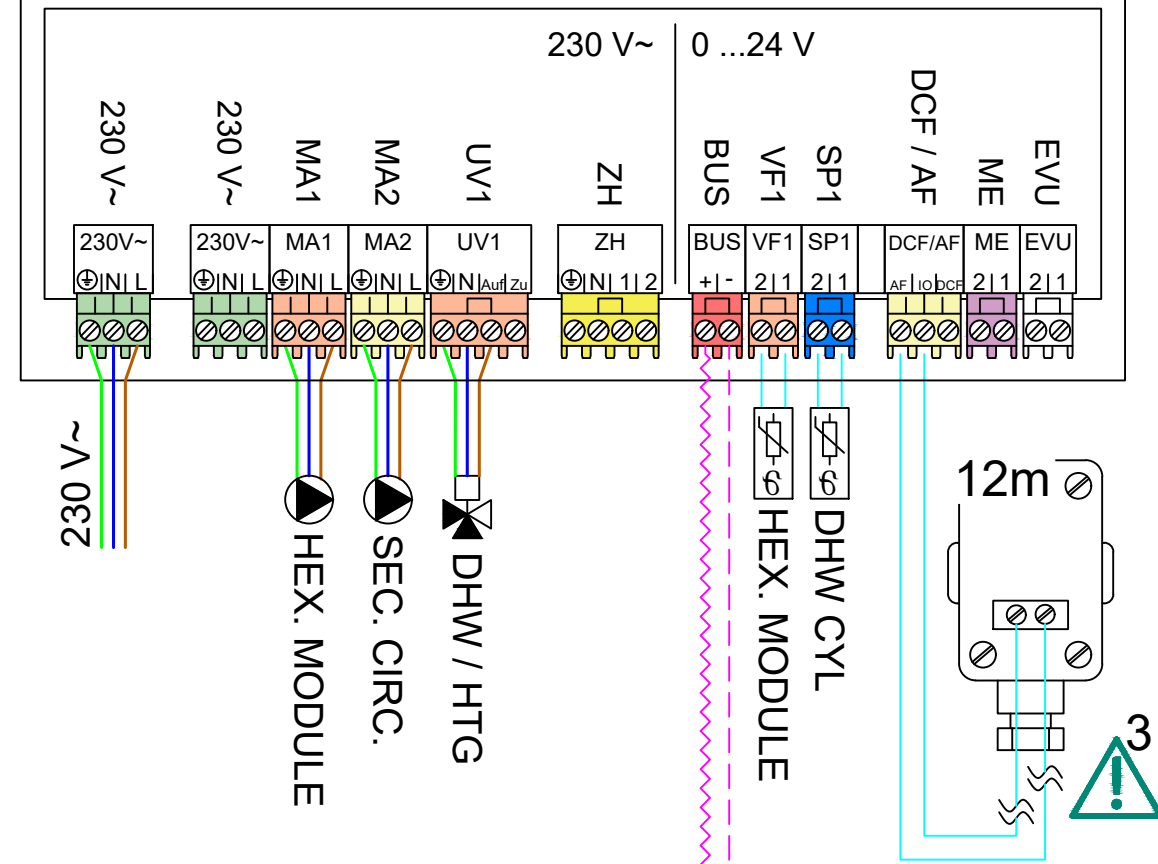
4. Link required (not factory fitted).

7. For meter ready requirements (RHI)



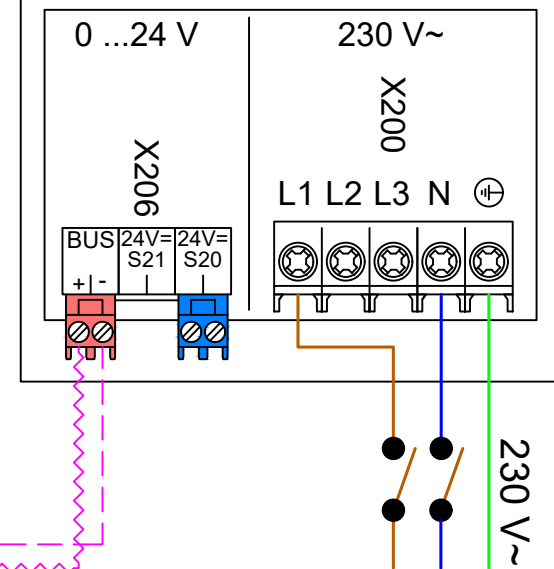
12b

Heatpump Interface

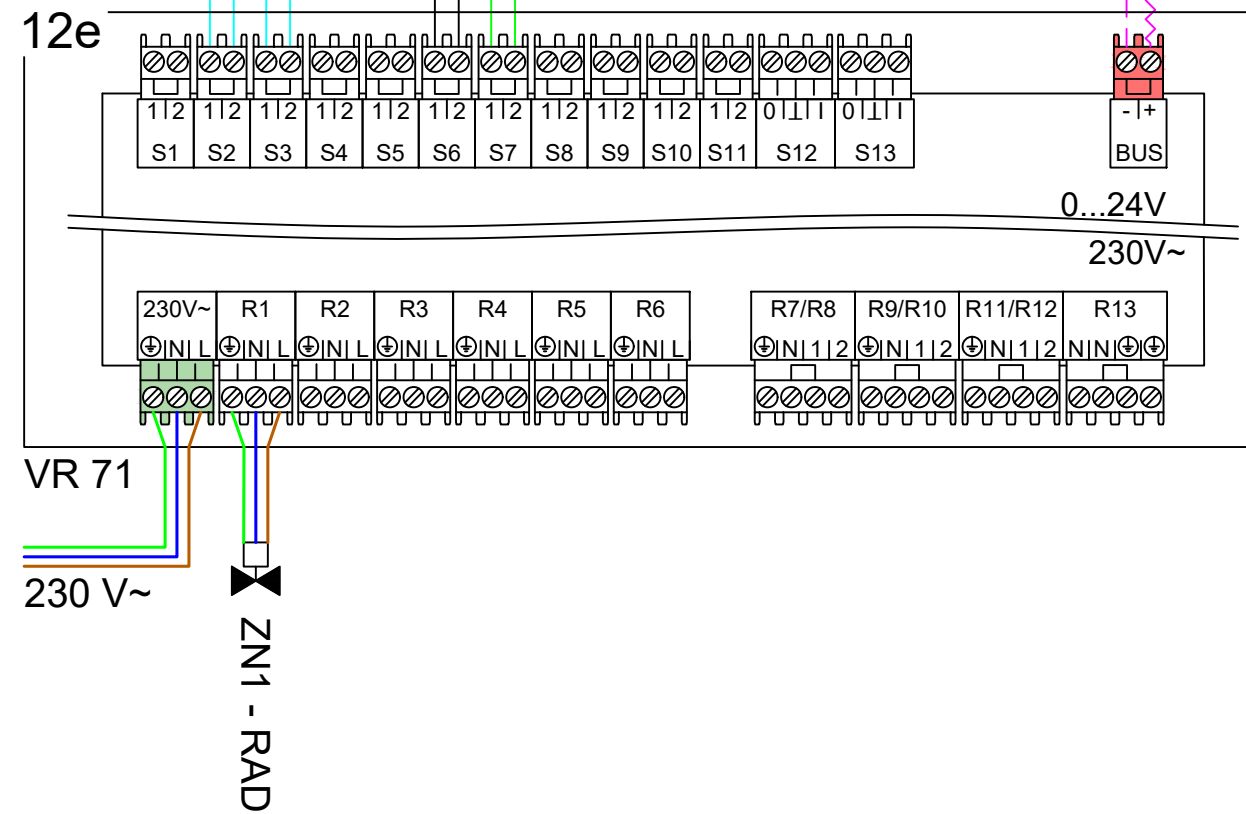


2a

Heat Pump



12e

UFH
DEMANDUFH X
DEMAND

12p

12

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- | | |
|-----|--------------------------------|
| 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 |

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

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

REV	DATE	DESCRIPTION	ZONE
-----	------	-------------	------

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 BUS

Indicates No. of cable cores

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Drawn: A. WILLIS

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

16/06/2020

REV:

—

Control(s): sensoCOMFORT

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

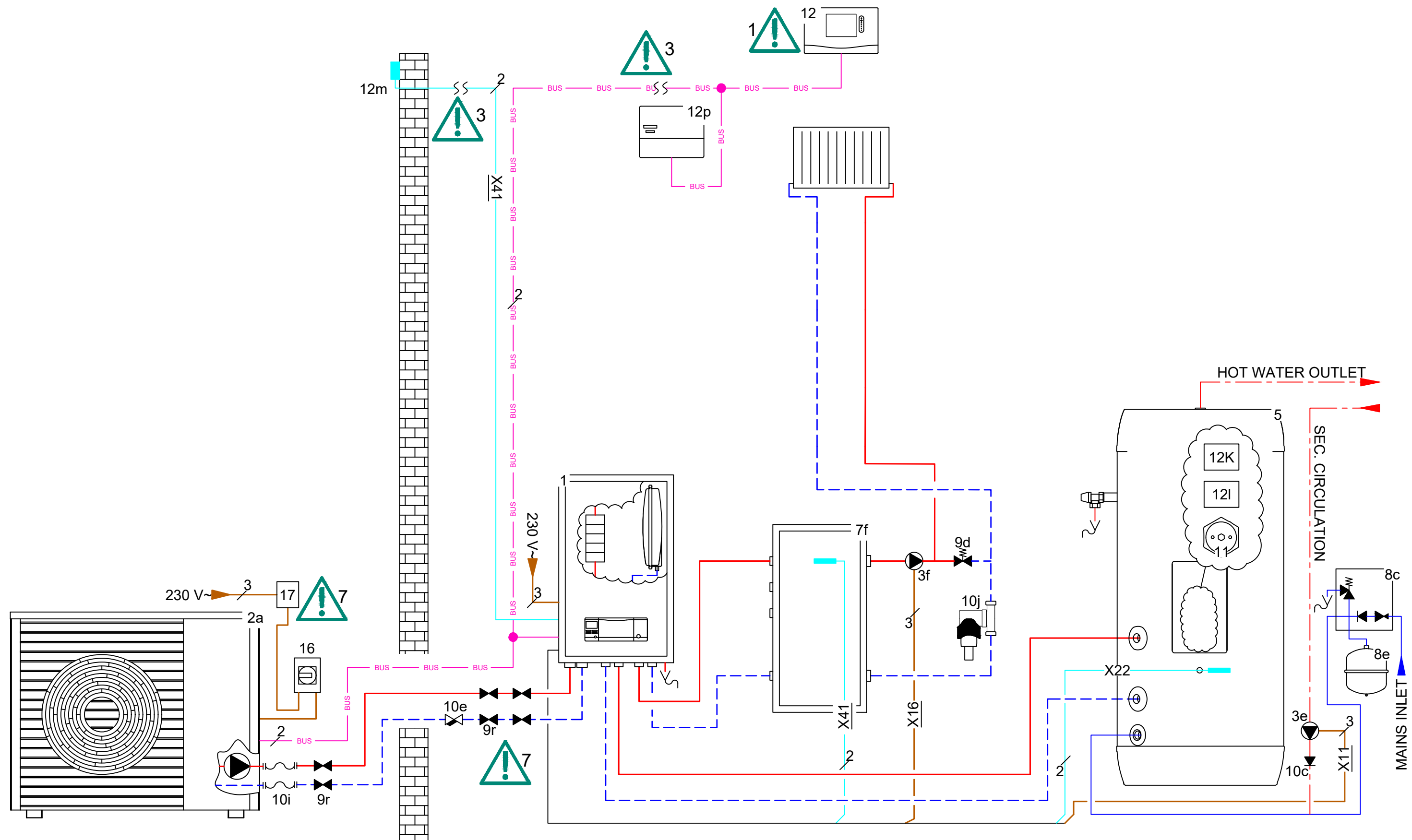
Domestic Hot Water: 1x Cylinder

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

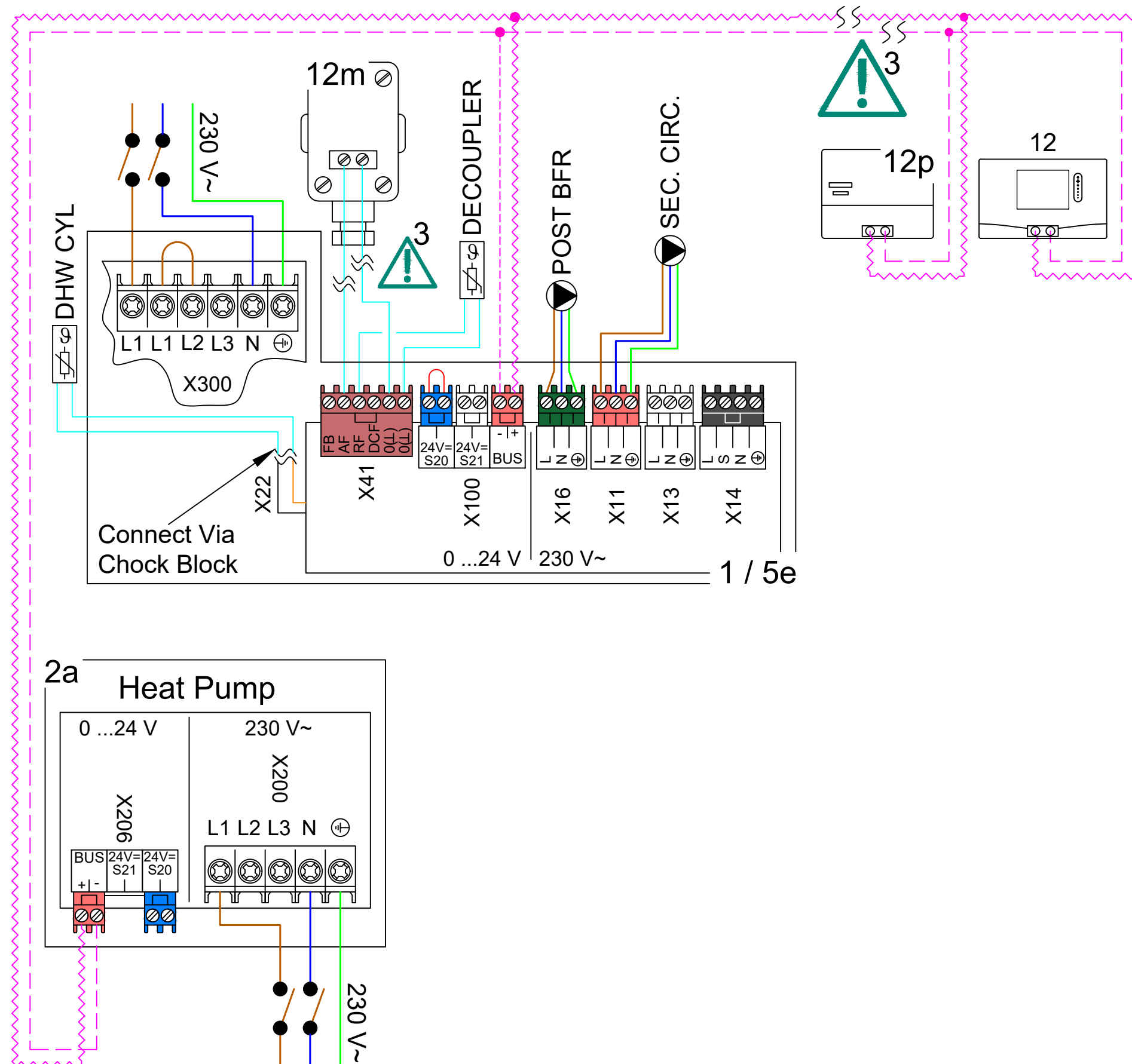
HTG. Circuit(s): 1x Radiator - Direct, ,

Domestic Hot Water: 1x Cylinder

Page 1 / 3



-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)



30161-1011

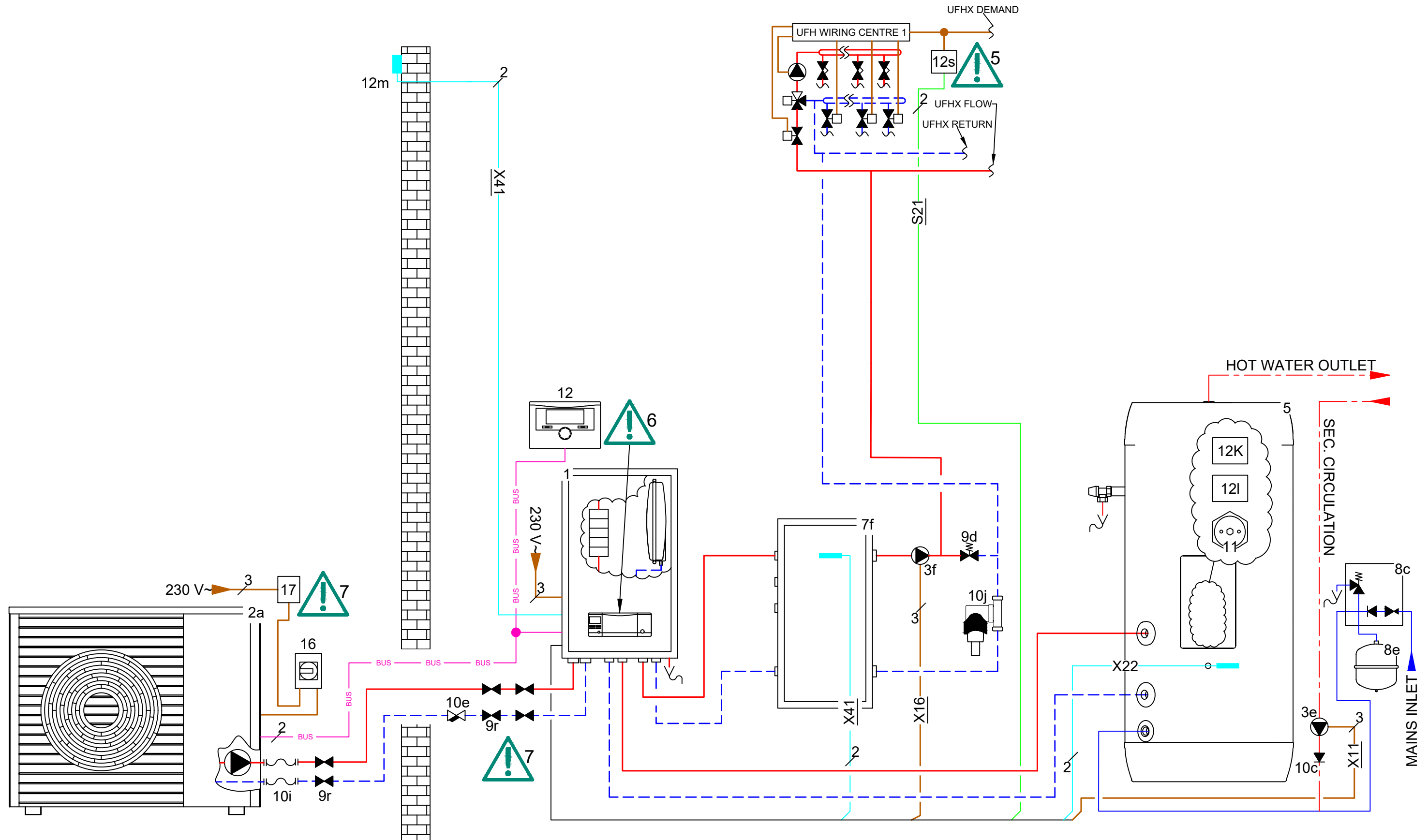


-See page 2 for detailed wiring.

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)



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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

Page 1 / 3

30161-1011

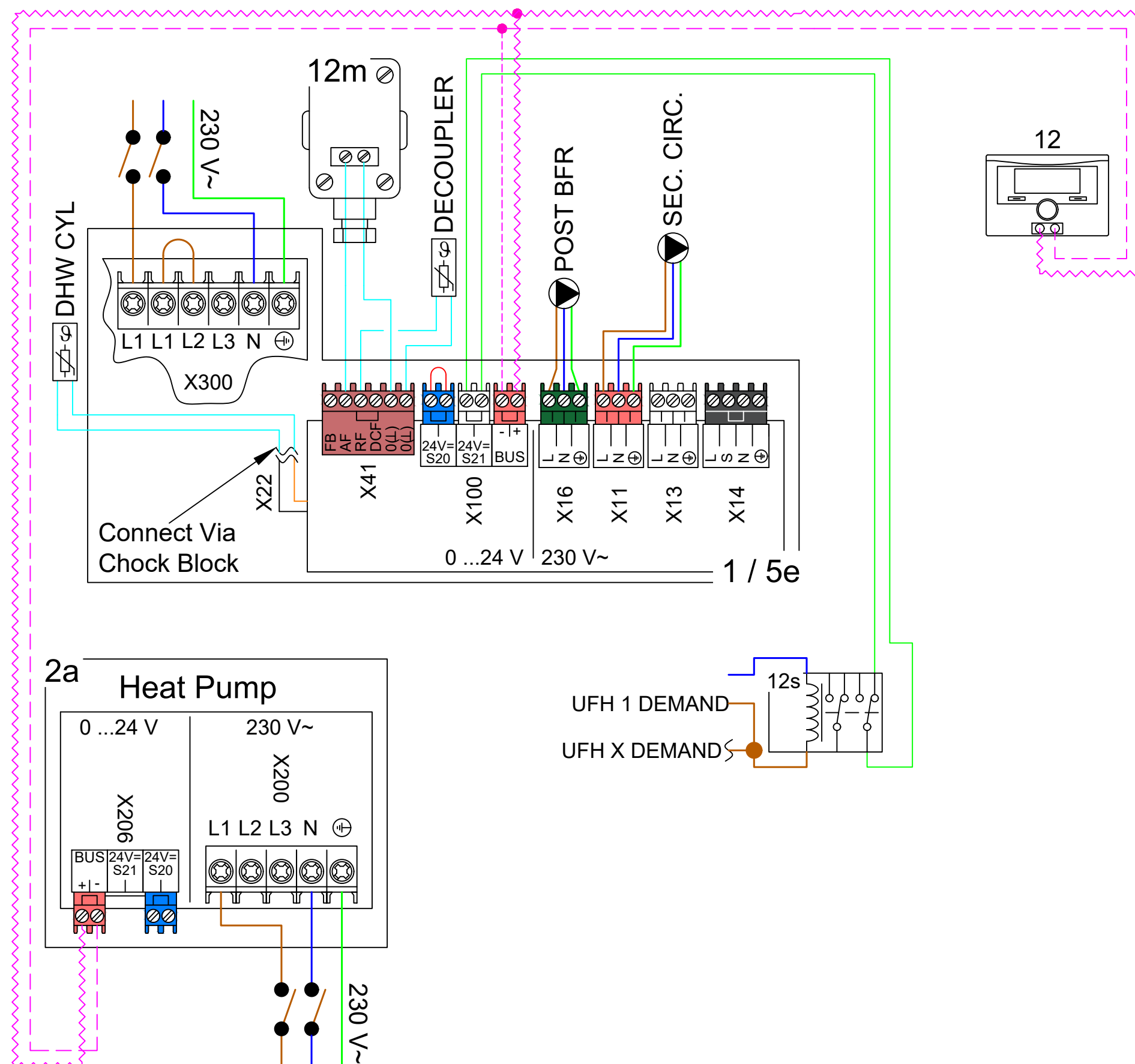


-See page 2 for detailed wiring.

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)



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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

Page 2 / 3

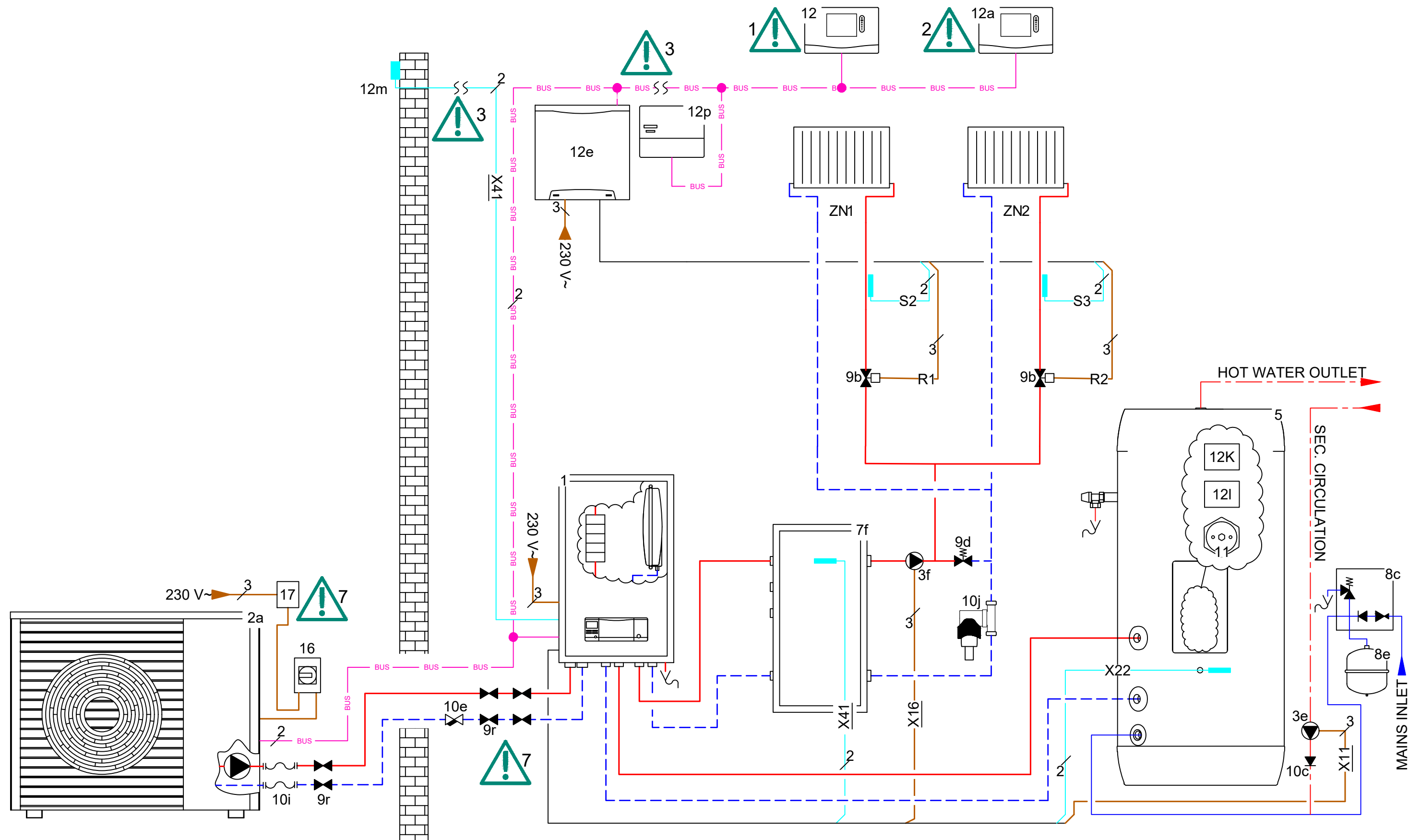
30170-1012



-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)



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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

Page 1 / 3

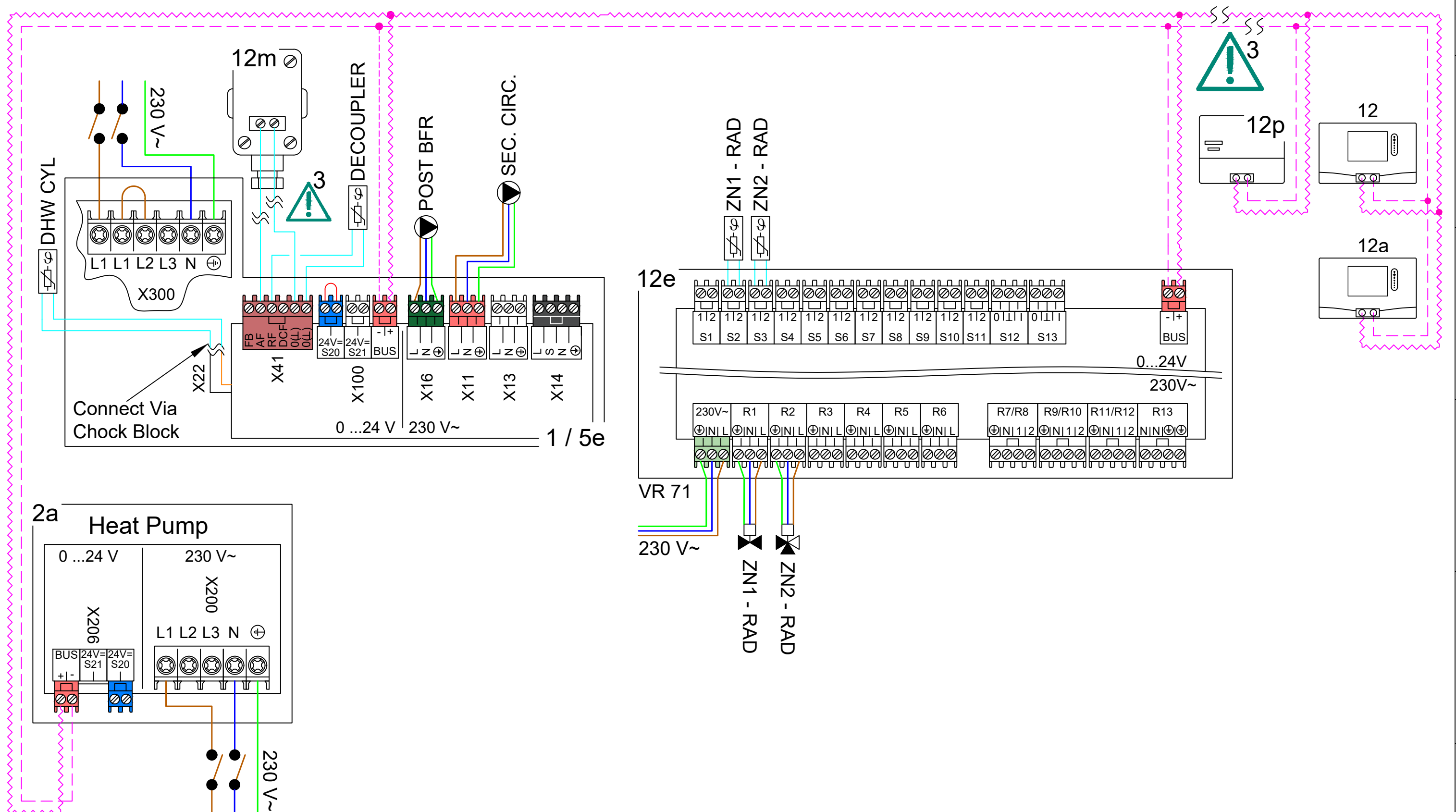
30170-1012



-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)



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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

Page 2 / 3

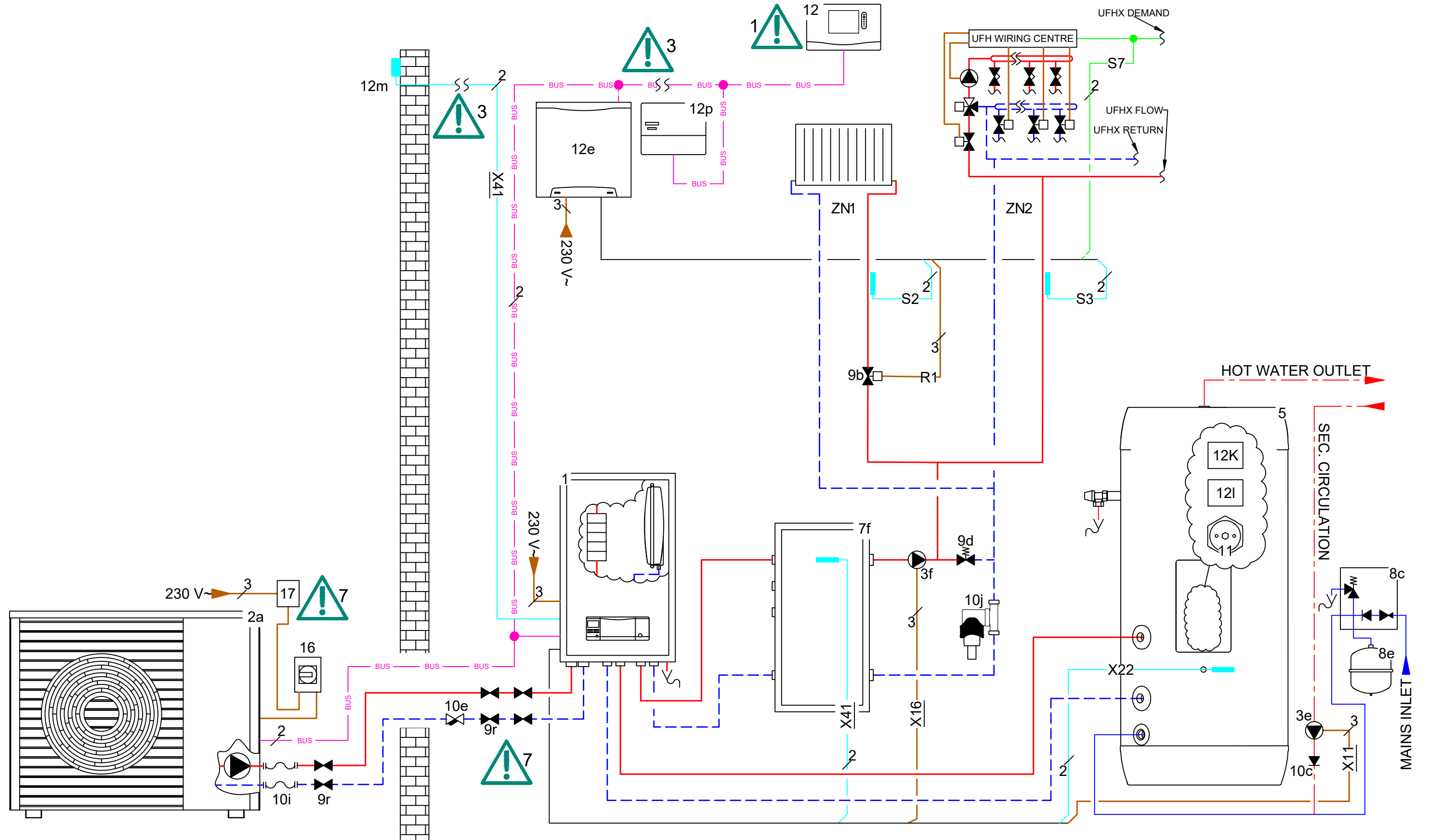
30171-1012



-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)



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Drawn: A. WILLIS

16/06/2020

REV:

A

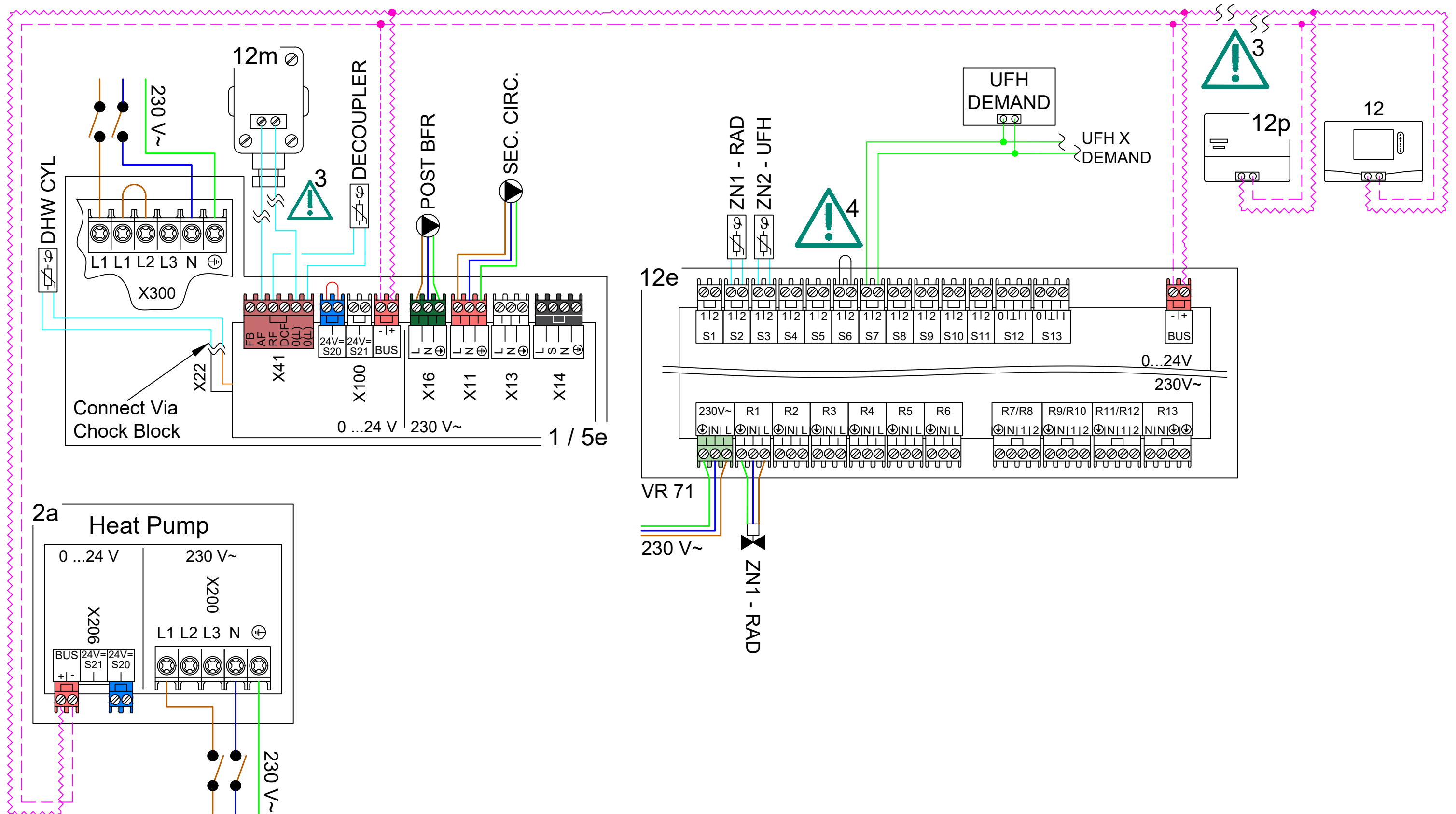
Appliance(s): aroTHERM Mono, Hydraulic Station, Buffer (40L Decoupler)

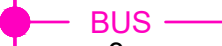
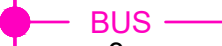
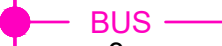
Control(s): sensoCOMFORT

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

Domestic Hot Water: 1x Cylinder

Page 1 / 3



1	2	3	4	5	6	7	8																																																																																						
30171-1012		Terms and Conditions for Vaillant Schematic Diagrams																																																																																											
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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																																																																																													
Vaillant Group disclaimer: This drawing is supplied for information and general guidance only. No responsibility is accepted for any errors or omissions contained within or for any cost incurred in rectifying any work relating to it.		Drawn: A. WILLIS		Appliance(s): aroTHERM Mono, Hydraulic Station, Buffer (40L Decoupler)		HTG. Circuit(s): 1x Radiator - Direct, 1x UFH(X) - 3rd Party,																																																																																							
16/06/2020		REV: A		Control(s): sensoCOMFORT		Domestic Hot Water: 1x Cylinder																																																																																							
1	2	3	4	5	6	7	8																																																																																						

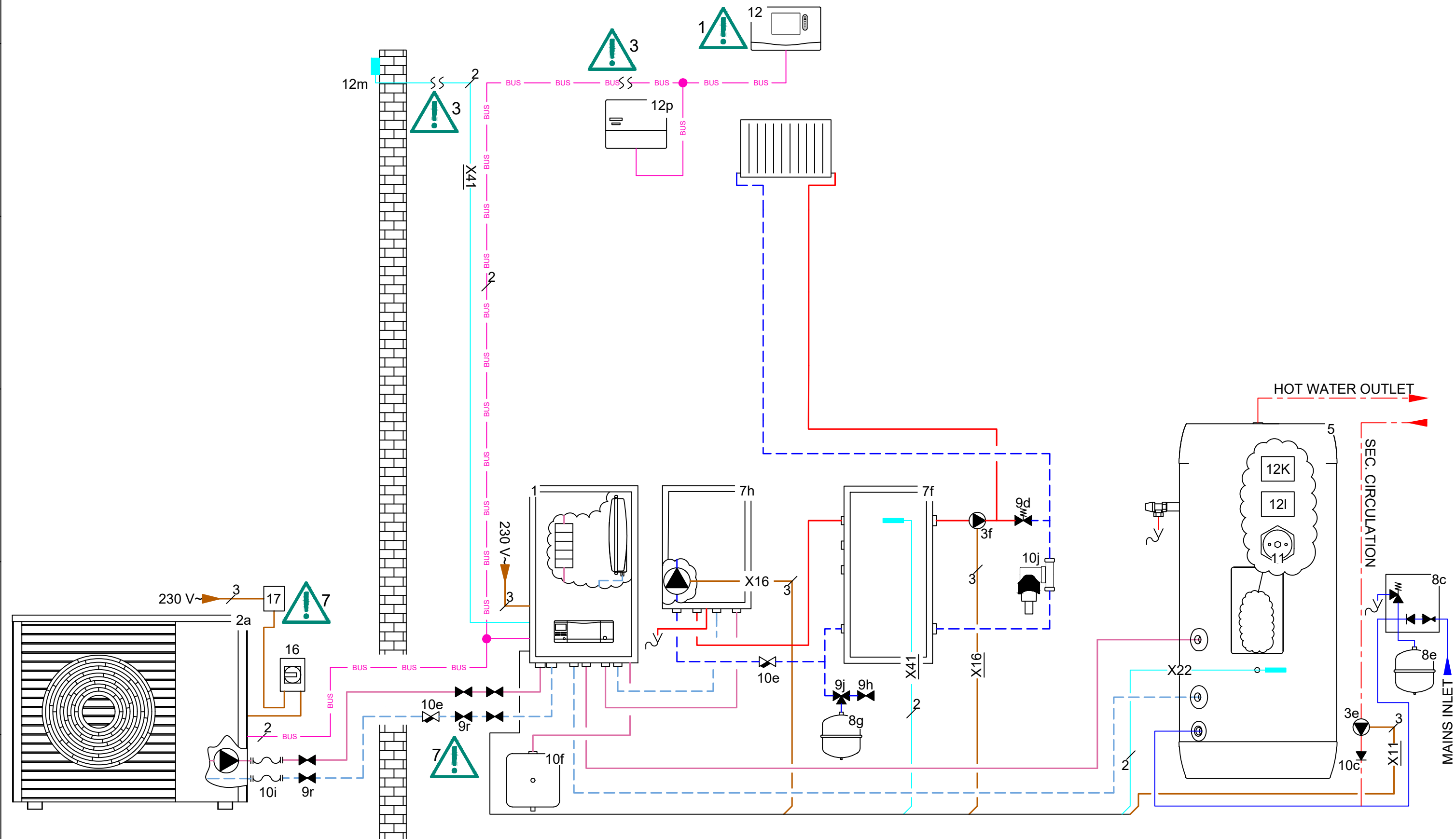
Page3 / 3

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)



Vaillant Group disclaimer: This drawing is supplied for information and general guidance only. No responsibility is accepted for any errors or omissions contained within or for any cost incurred in rectifying any work relating to it.

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, ,

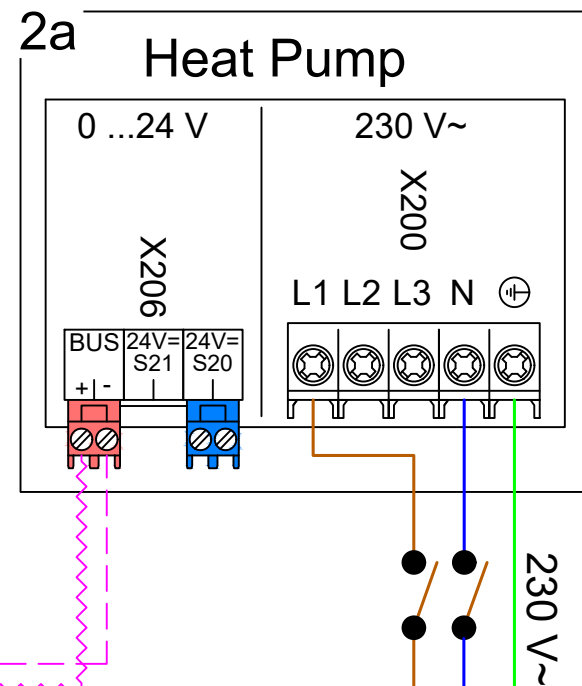
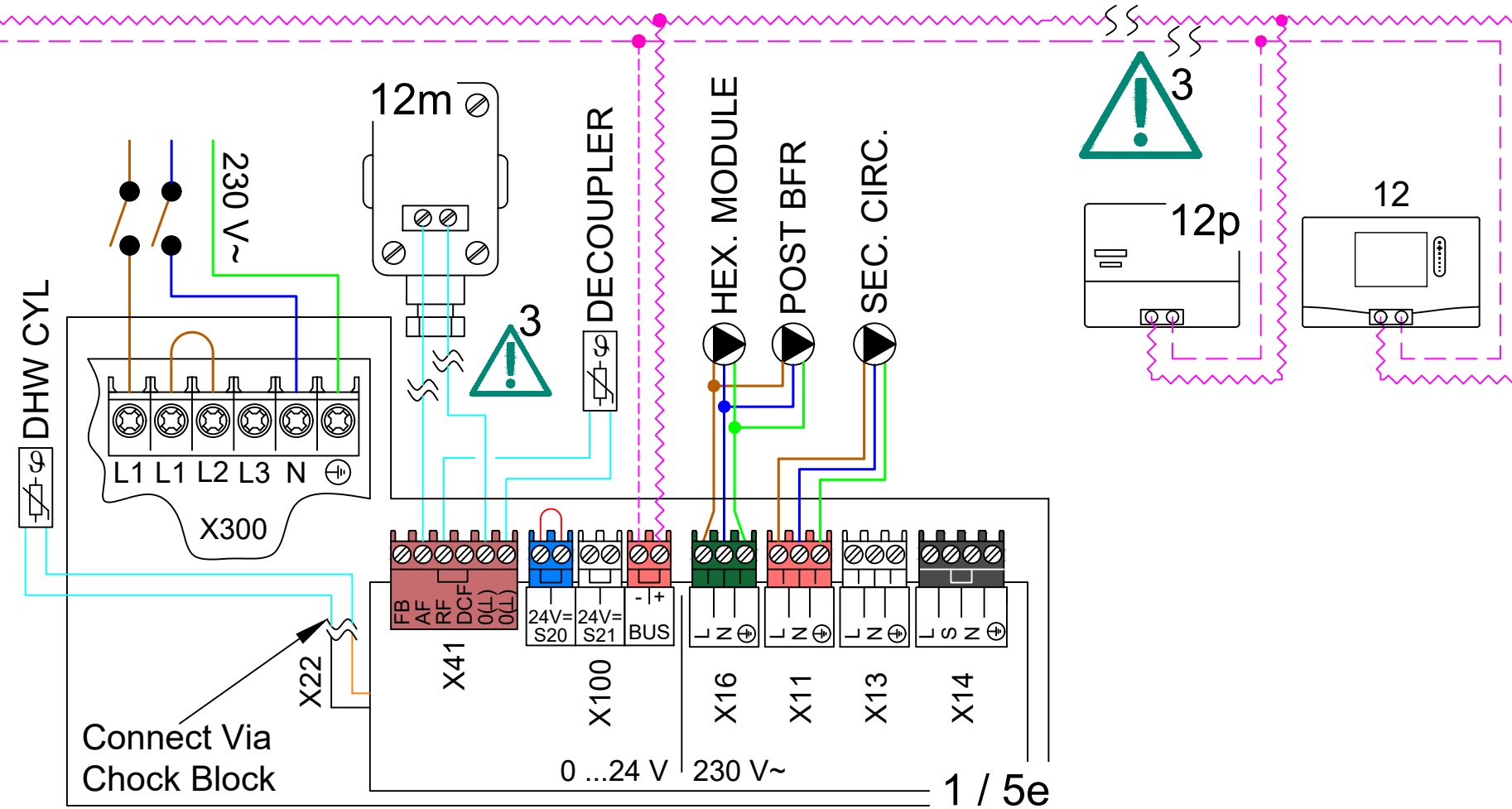
Domestic Hot Water: 1x Cylinder

Page 1 / 3



-See page 2 for detailed wiring.

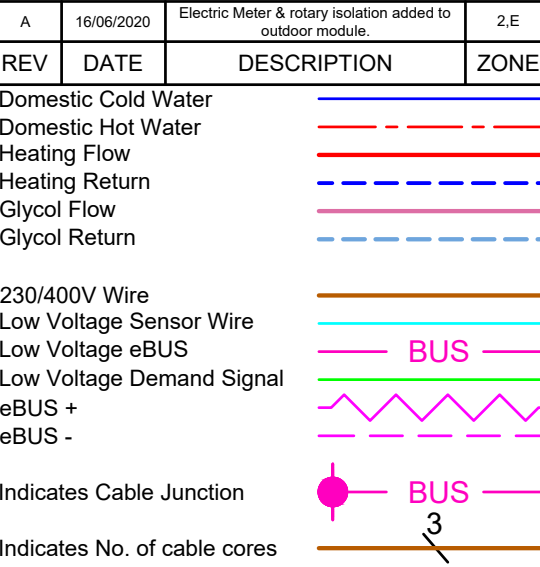
1. See page 3 for relevant controller system configuration settings.
3. Controls and outdoor sensor can be wired or wireless
7. For meter ready requirements (RHI)



1		2		3		4		5		6		7		8			
30200-1011		Terms and Conditions for Vaillant Schematic Diagrams															
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A		1. All applicable laws and regulations must be followed. 2. The Diagram may be subject to alteration at any time. 3. Vaillant is not responsible for any inaccuracies or omissions in the information and drawings provided to it and upon which it relies when constructing the diagrams. 4. Any reproduction of the design must have the prior permission of Vaillant. 5. During the planning, design, installation and later use of the system, all operating instructions must be followed. 6. In no circumstances shall Vaillant be liable to you or any other third parties for any loss or damage (including, without limitation, damage for loss of business or loss of profits) arising directly or indirectly from your use of or inability to use, this diagram. 7. Vaillant makes no representations or warranties of any kind, express or implied about the completeness, accuracy, reliability or suitability of the diagram for any purpose. Any reliance you place on the diagram is therefore strictly at your own risk. 8. These disclaimers and exclusions shall be governed by and construed in accordance with English law. <td colspan="2"> 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 </td>											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				
B		sensoCOMFORT / VRC 700 System Configuration											B				
		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°													
C		Alternative point:		Off									C				
		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													
D		Circuit 1											D				
		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													
E		Zone 1											E				
		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													
F		Cyl. charg. anti-cycl. time:		5 min									F				
		Vaillant Group disclaimer: This drawing is supplied for information and general guidance only. No responsibility is accepted for any errors or omissions contained within or for any cost incurred in rectifying any work relating to it.		Drawn: A. WILLIS		Appliance(s): aroTHERM Mono, Hydraulic Station, Heat Ex. Module, Buffer (40L Decoupler)				HTG. Circuit(s): 1x Radiator - Direct, ,							
				16/06/2020		REV: A		Control(s): sensoCOMFORT				Domestic Hot Water: 1x Cylinder				Page 3 / 3	
1		2		3		4		5		6		7		8			



- 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



30201-1011

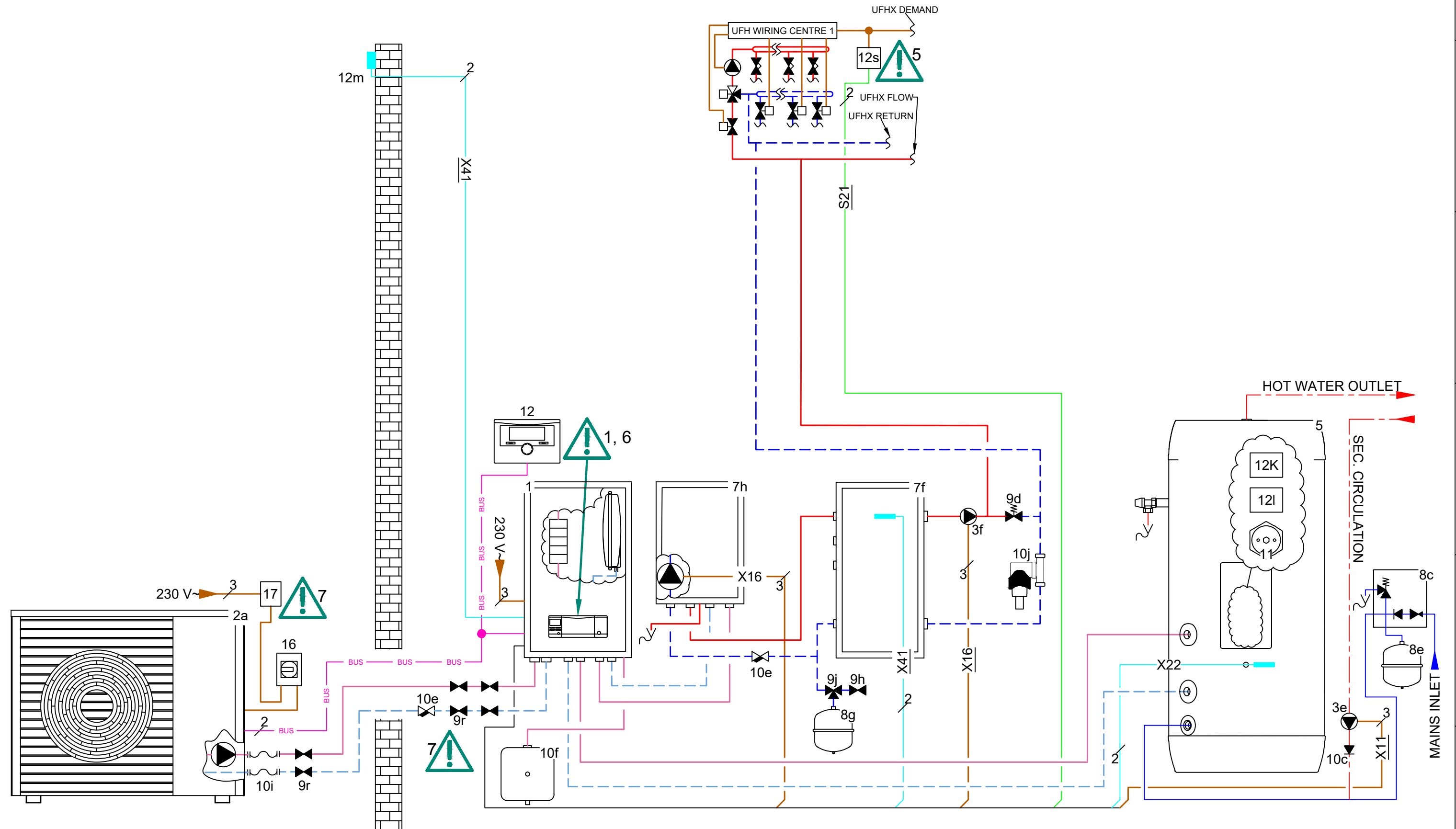


-See page 2 for detailed wiring.

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

Page 1 / 3

30201-1011

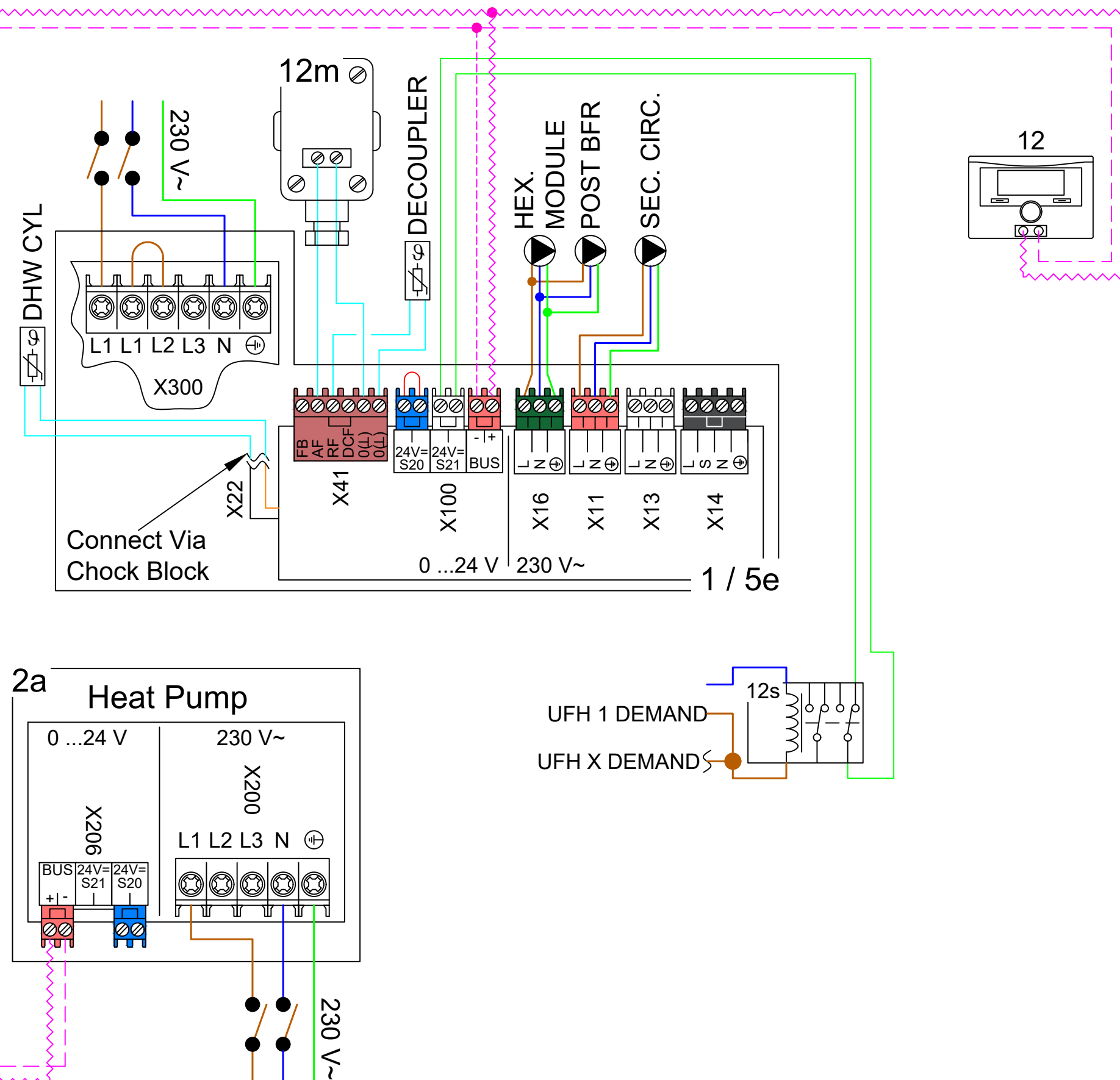


-See page 2 for detailed wiring.

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)



Vaillant Group disclaimer: This drawing is supplied for information and general guidance only. No responsibility is accepted for any errors or omissions contained within or for any cost incurred in rectifying any work relating to it.

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

Page 2 / 3

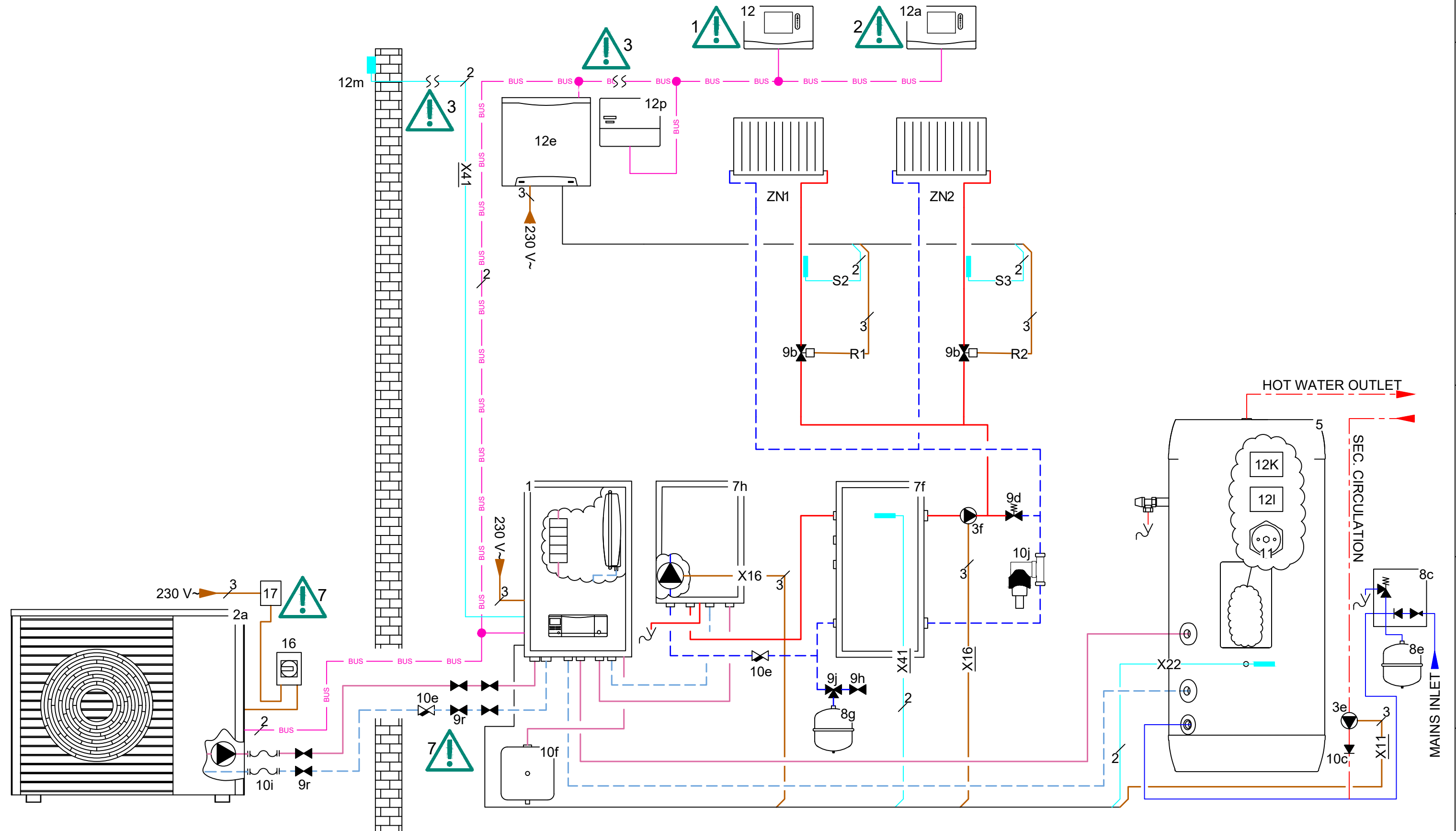
30210-1012



-See page 2 for detailed wiring.

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

3. Controls and outdoor sensor can be wired or wireless
7. 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): 2x Radiator - Direct, ,

Domestic Hot Water: 1x Cylinder

Page 1 / 3

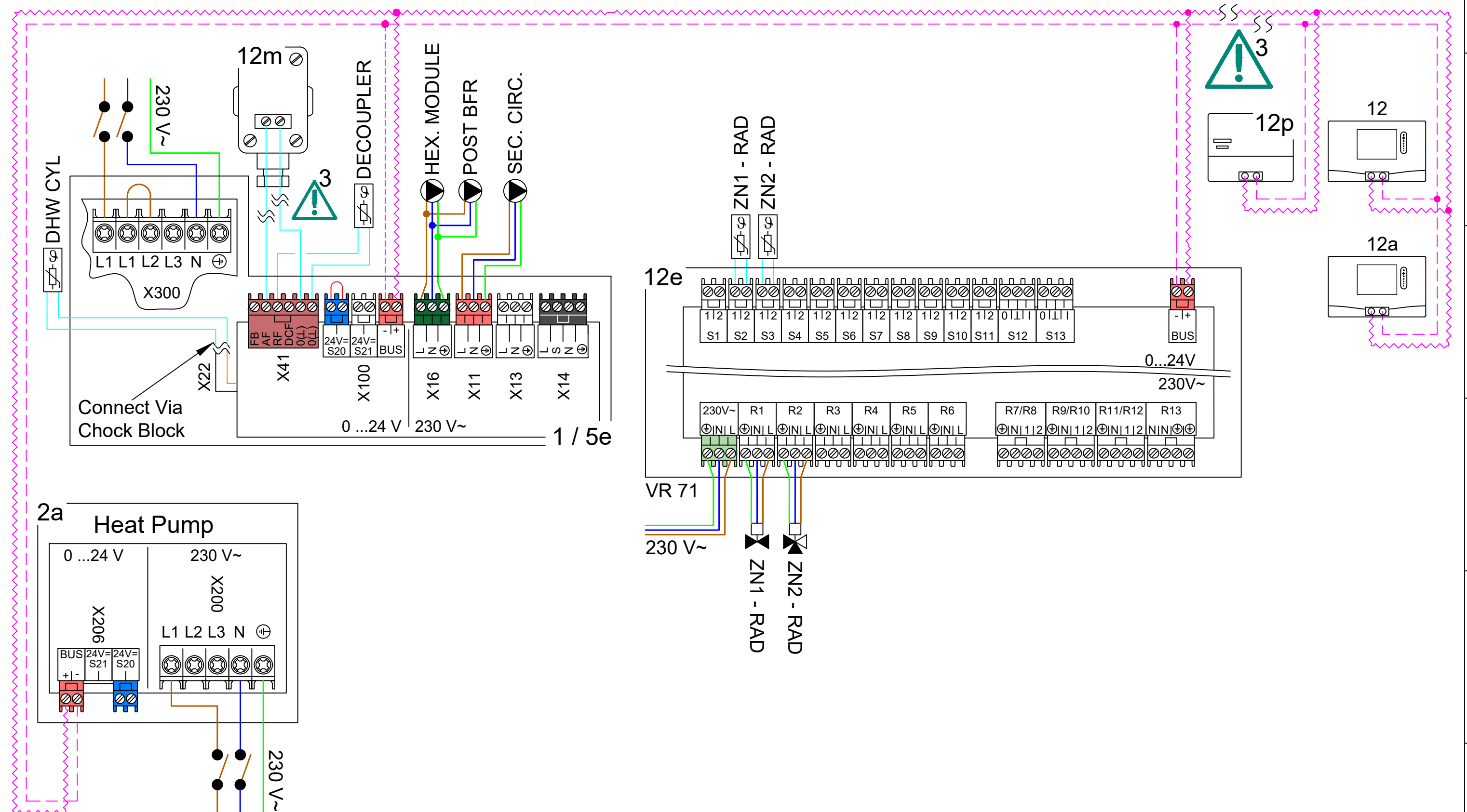
30210-1012



-See page 2 for detailed wiring.

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

3. Controls and outdoor sensor can be wired or wireless
7. 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): 2x Radiator - Direct, ,

Domestic Hot Water: 1x Cylinder

Page 2 / 3



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

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.

Domestic Hot Water: 1x Cylinder

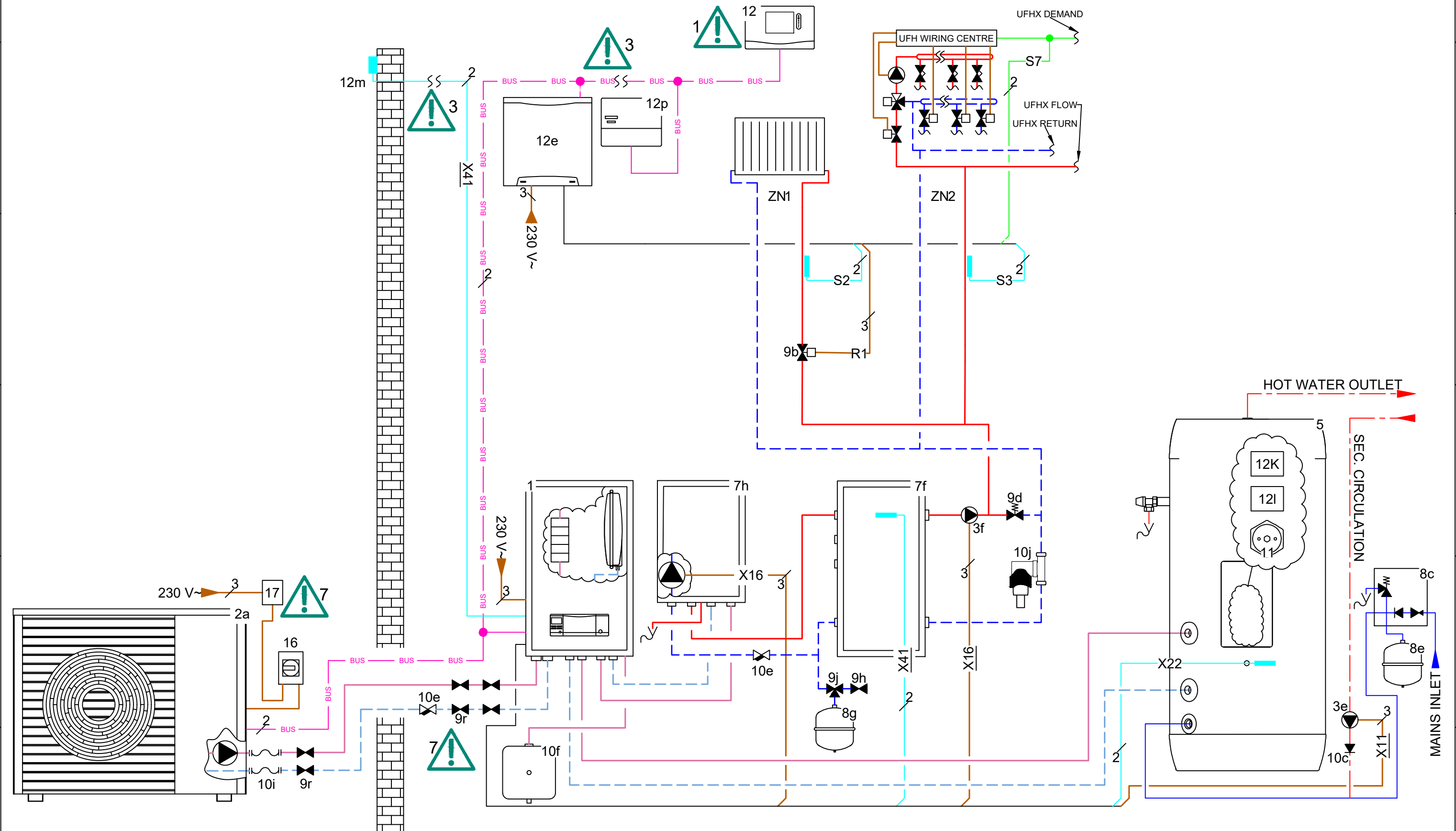
30211-1012



-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

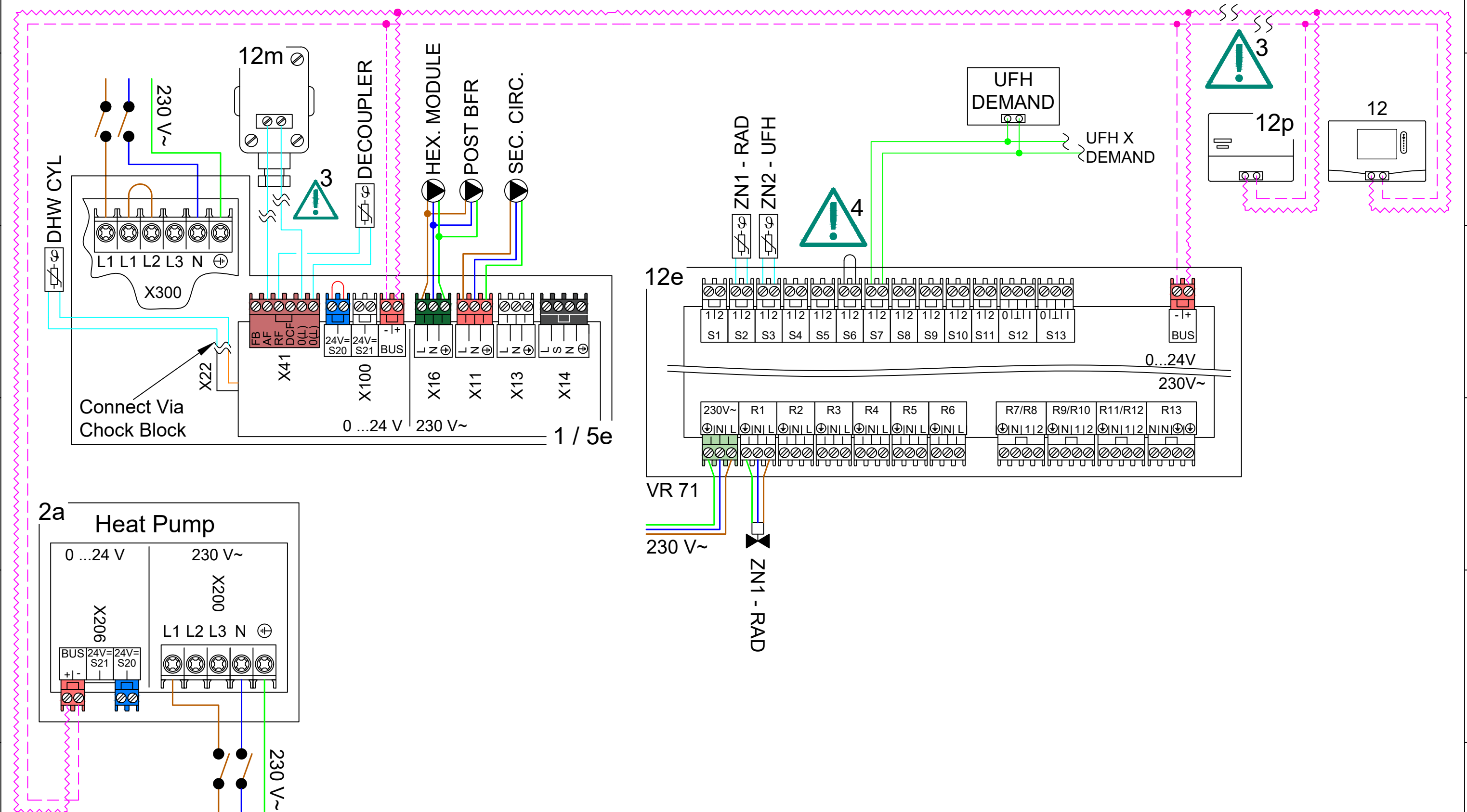
Appliance(s): aroTHERM Mono, Hydraulic Station, Heat Ex. Module, Buffer (40L Decoupler)

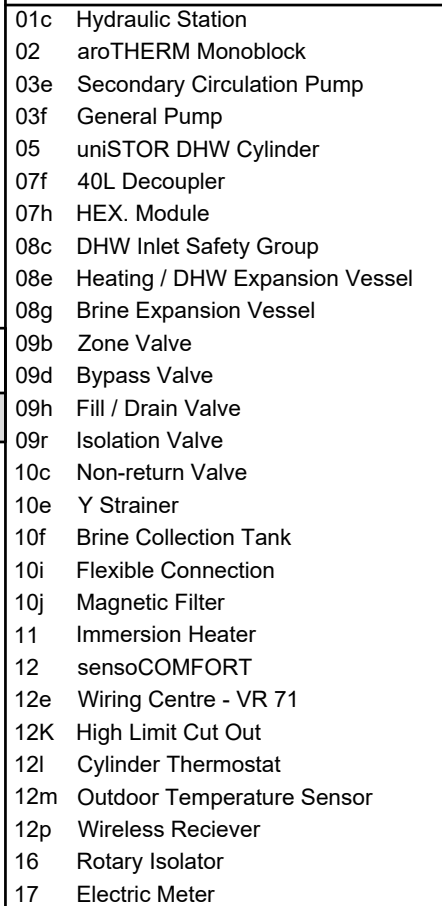
Control(s): sensoCOMFORT

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

Domestic Hot Water: 1x Cylinder

Page 1 / 3





- ## 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
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

A	16/06/2020	Electric Meter & rotary isolation added to outdoor module.	2.E
REV	DATE	DESCRIPTION	ZONE
		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, Hydraulic Station, Heat Ex. Module, Buffer (40L Decoupler)

Control(s): sensoCOMFORT

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

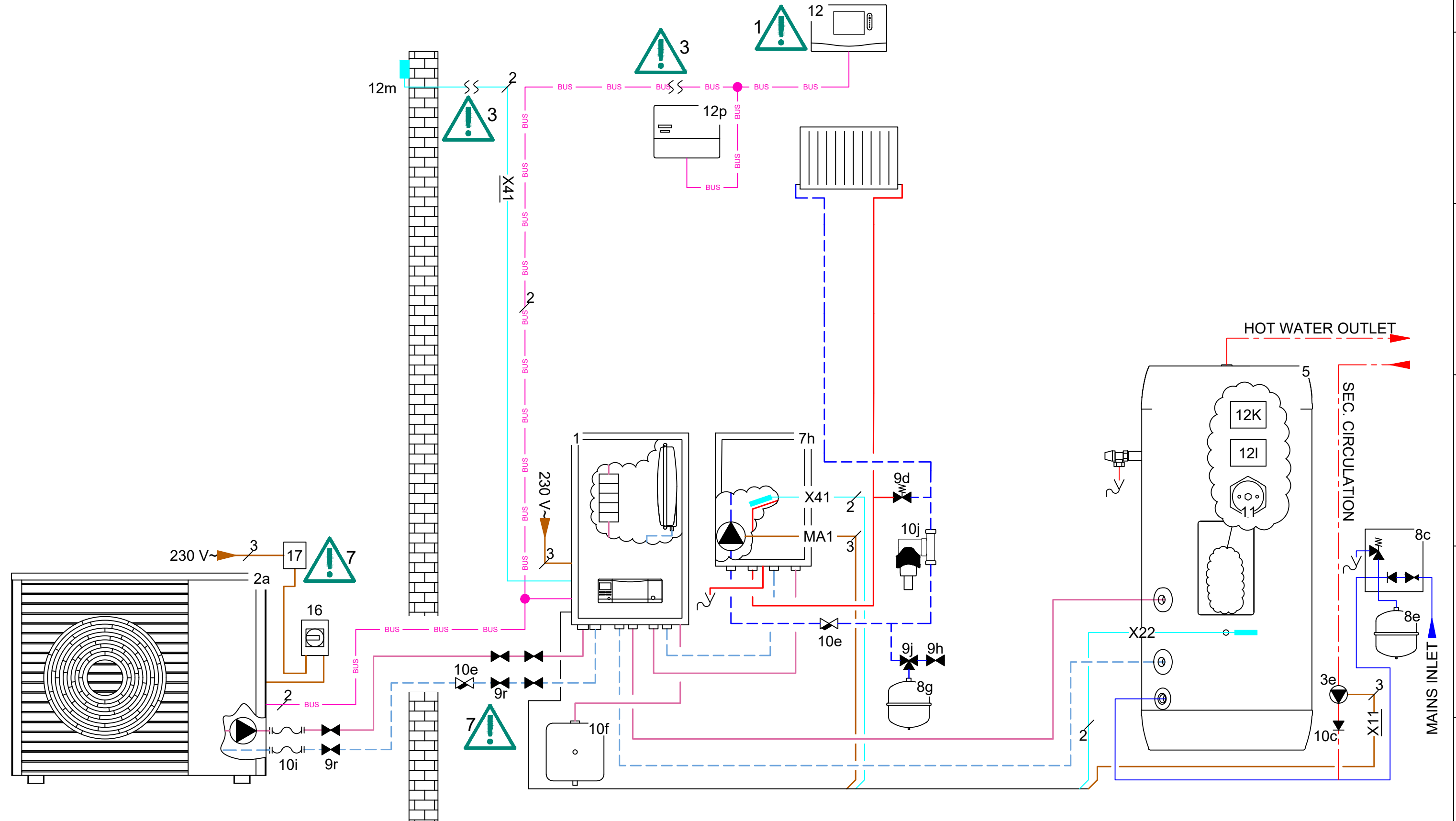
Domestic Hot Water: 1x Cylinder

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

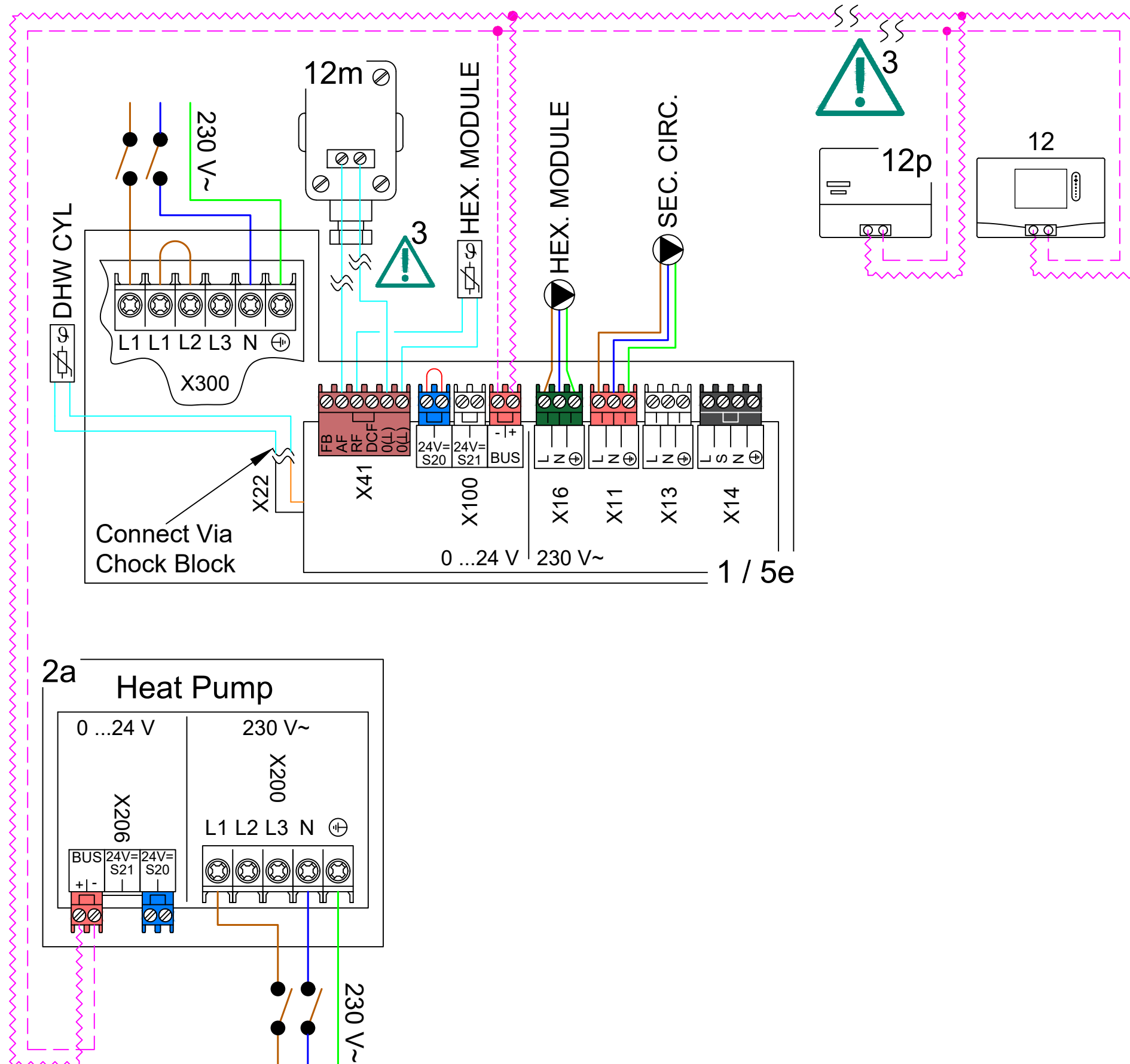
HTG. Circuit(s): 1x Radiator - Direct, ,

Domestic Hot Water: 1x Cylinder

Page 1 / 3



-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)



30181-1011

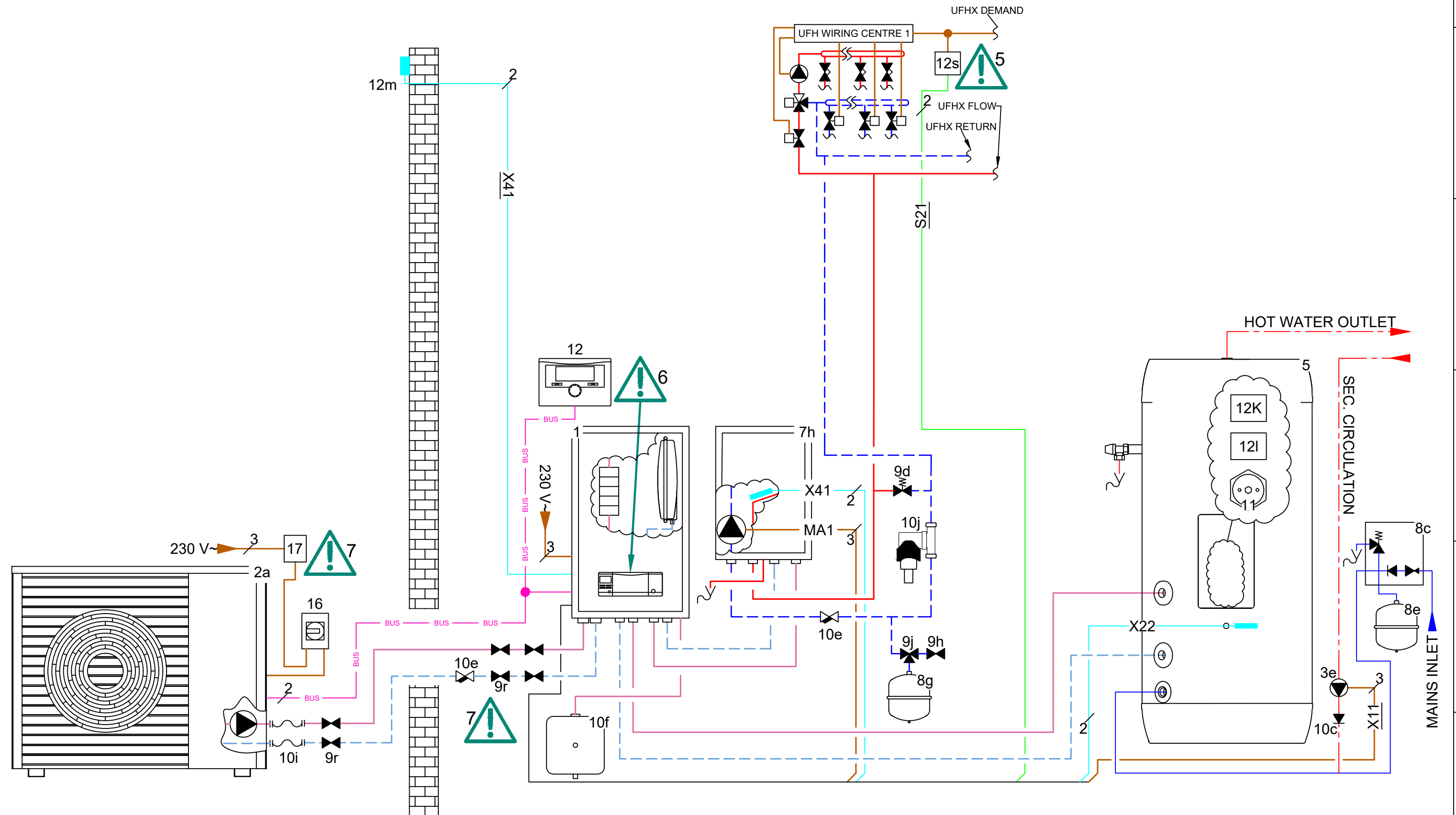


-See page 2 for detailed wiring.

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)



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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

Page 1 / 3

30181-1011

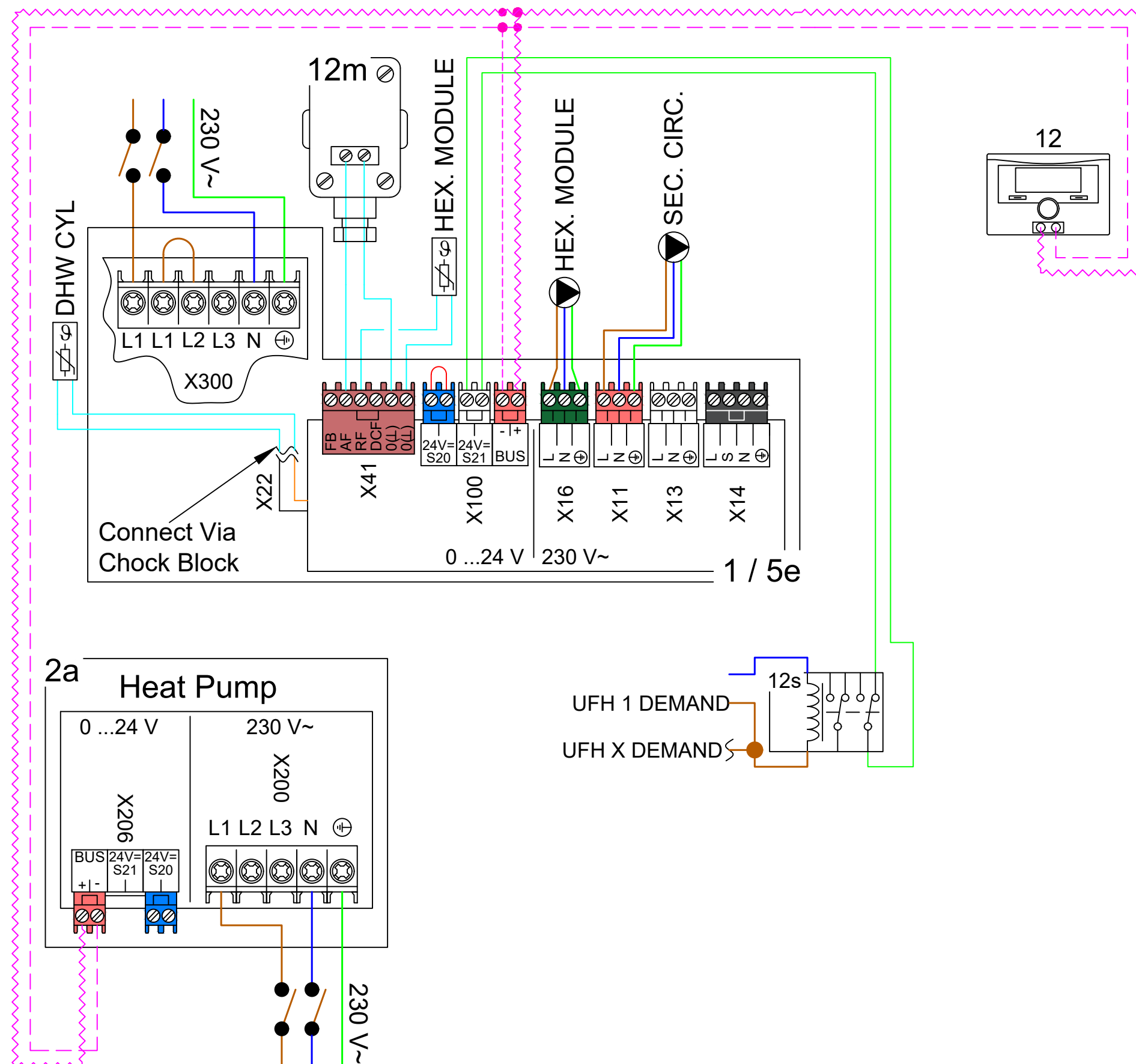


-See page 2 for detailed wiring.

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)



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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

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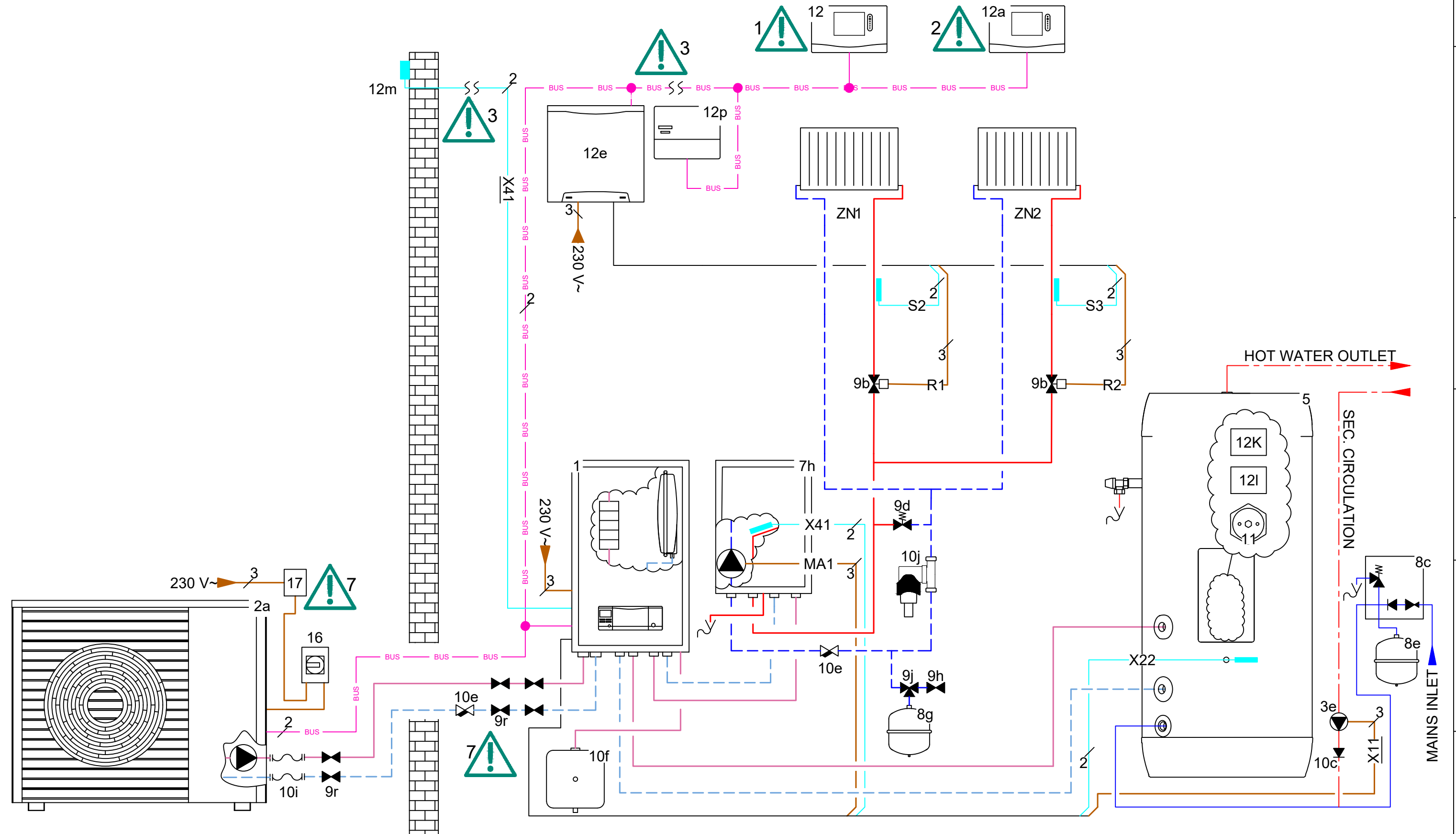
30190-1012



-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)



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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): 2x Radiator - Direct, ,

Domestic Hot Water: 1x Cylinder

Page 1 / 3

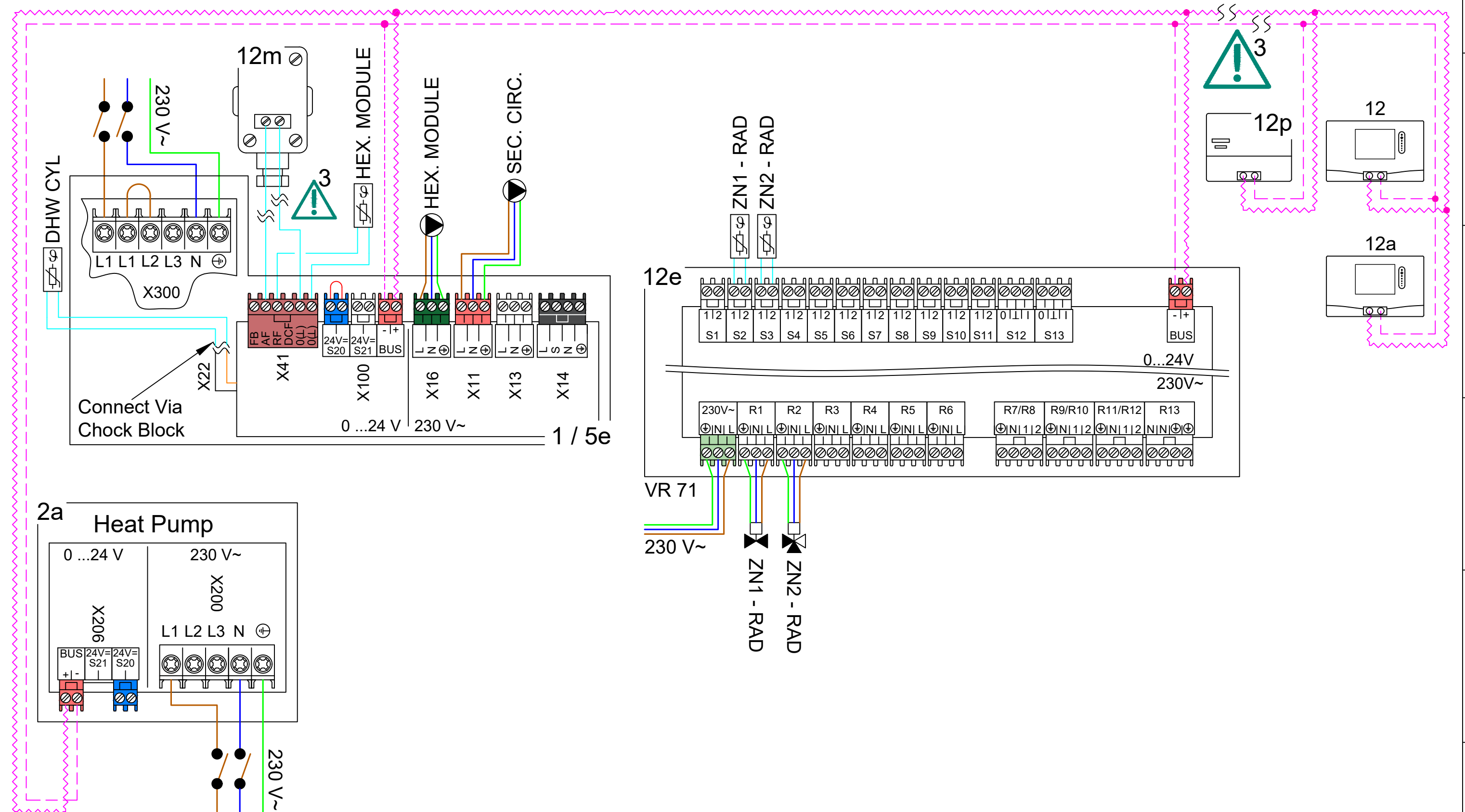
30190-1012



-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)



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Drawn: A. WILLIS

16/06/2020

REV:

A

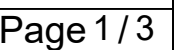
Appliance(s): aroTHERM Mono, Hydraulic Station, Heat Ex. Module

Control(s): sensoCOMFORT

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

Domestic Hot Water: 1x Cylinder

Page 2 / 3



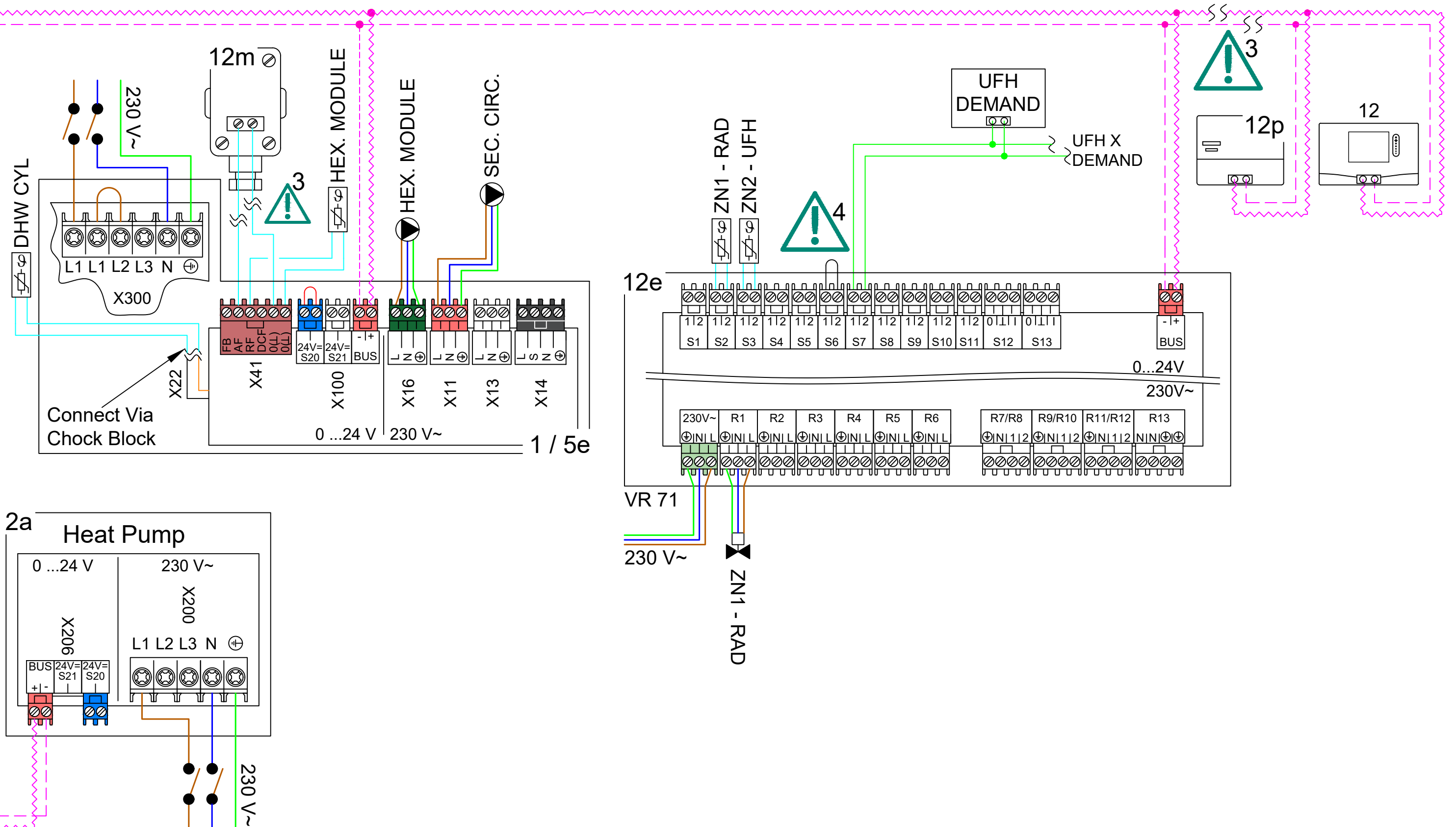
30191-1012



-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

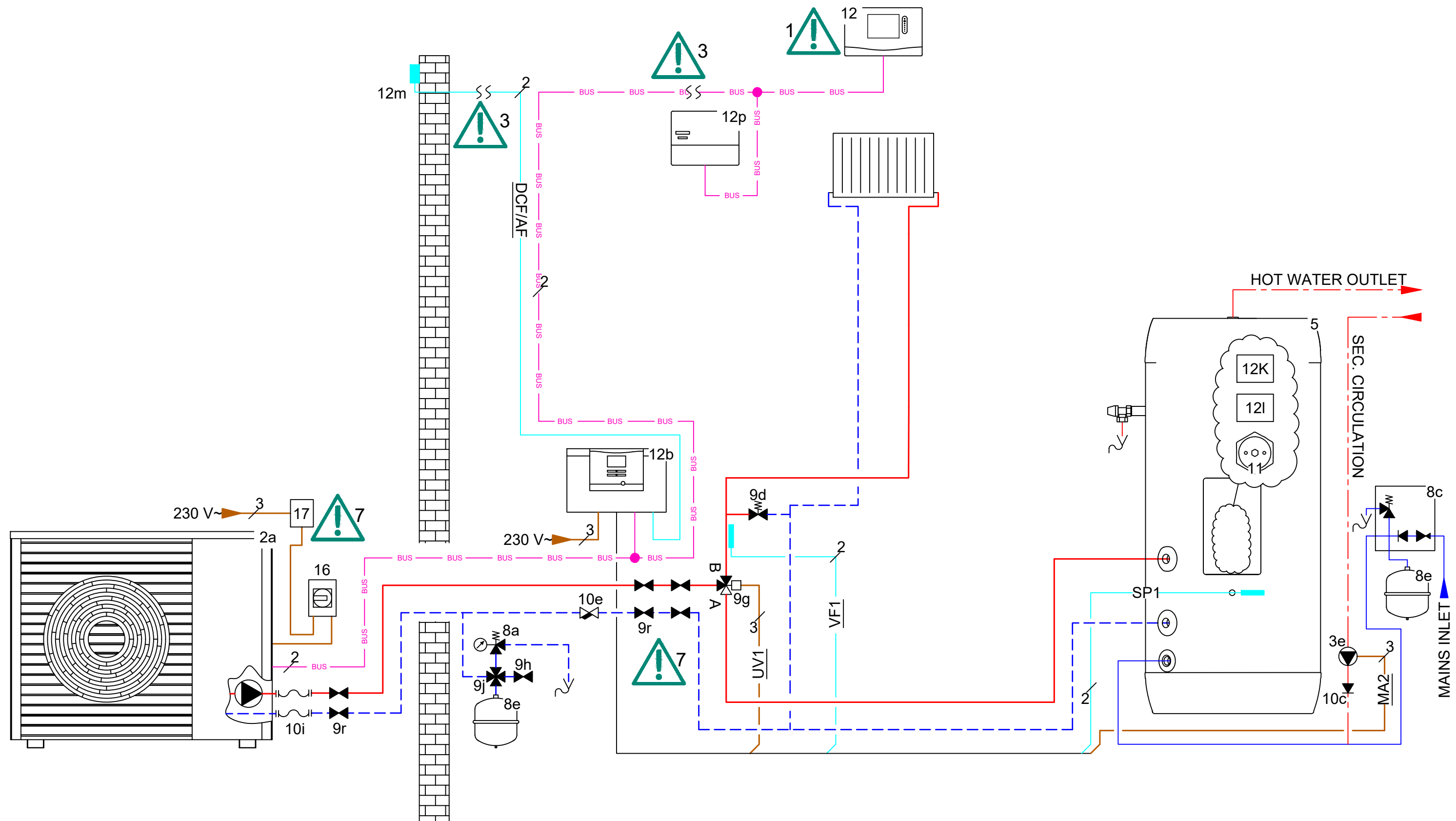
Page 2 / 3

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

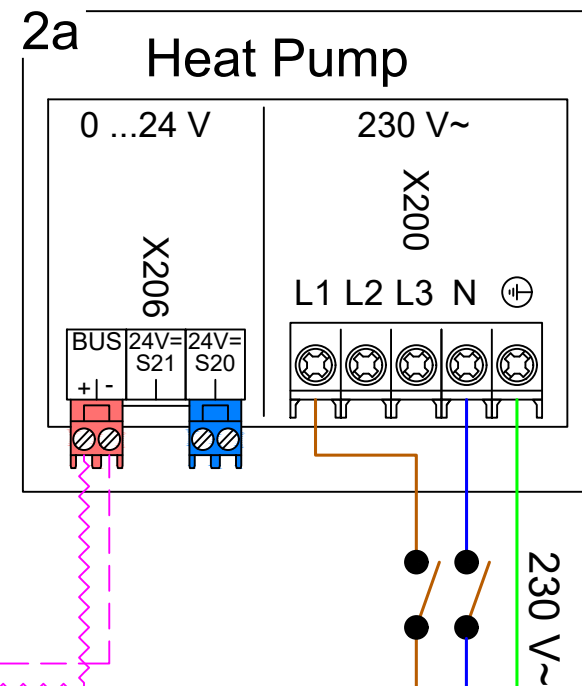
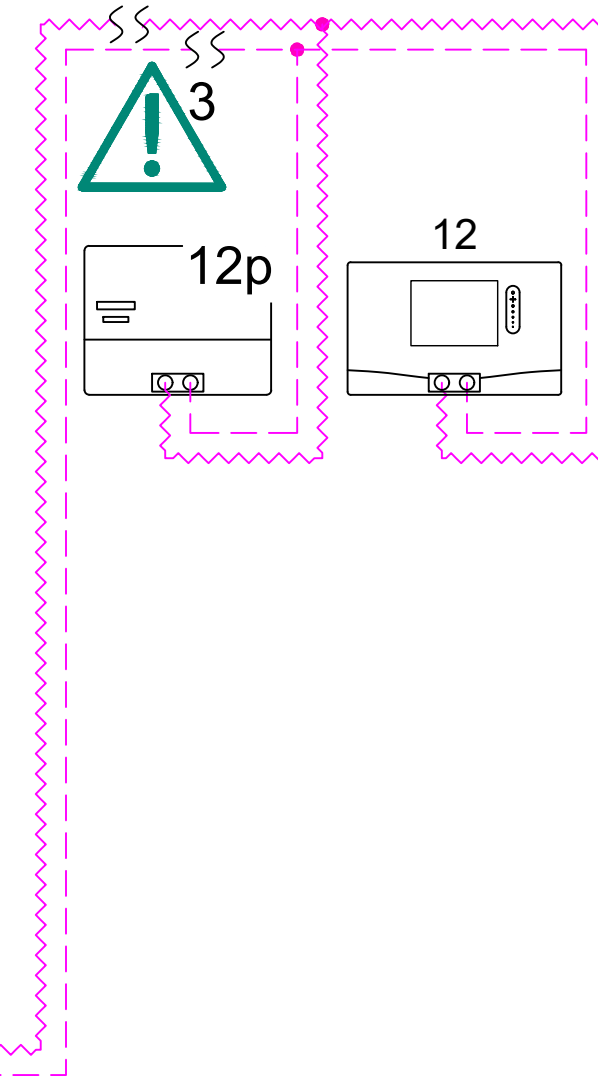
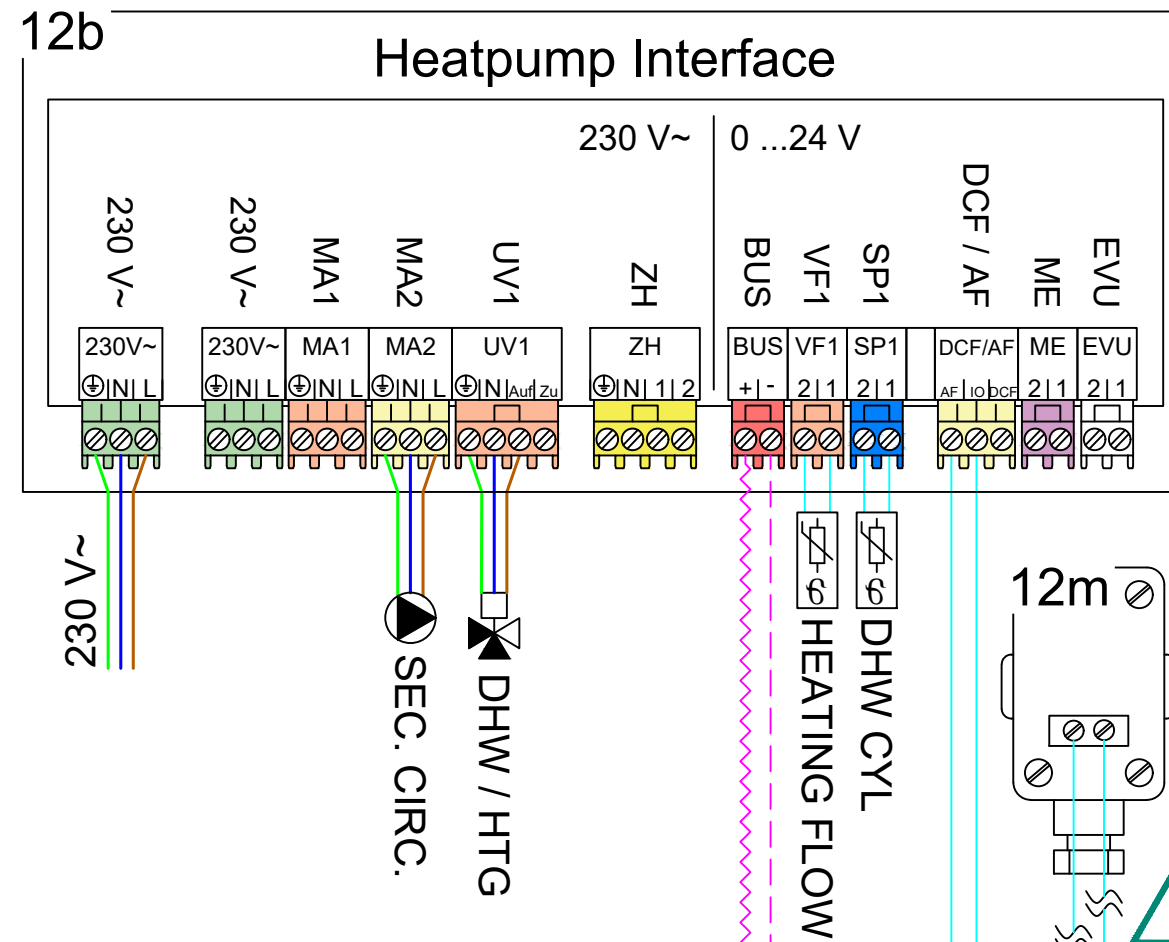
Appliance(s): aroTHERM Mono,

Control(s): sensoCOMFORT

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

Domestic Hot Water: 1x Cylinder

Page 1 / 3

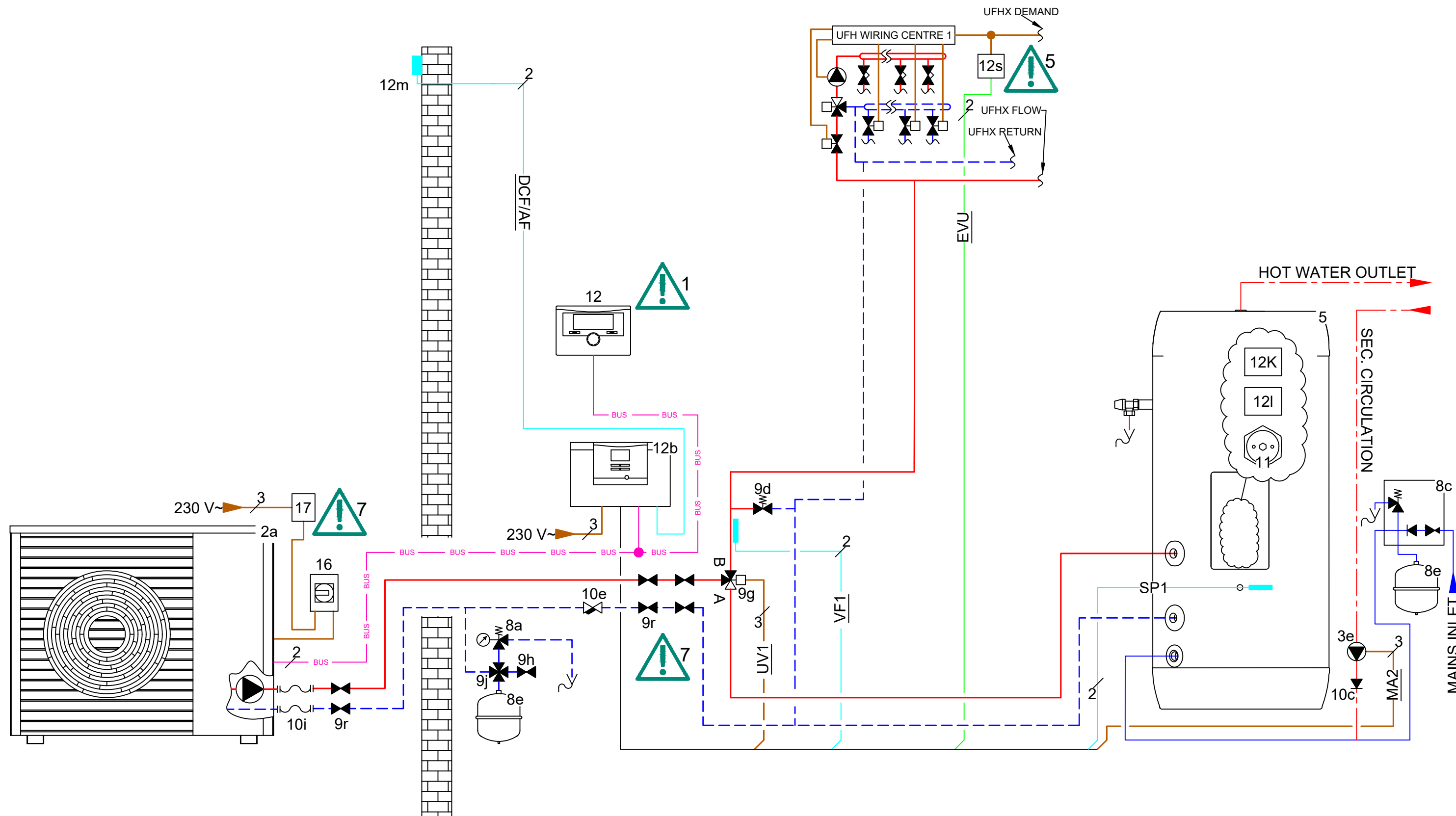


30261-1011



-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

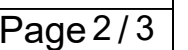
Appliance(s): aroTHERM Mono,

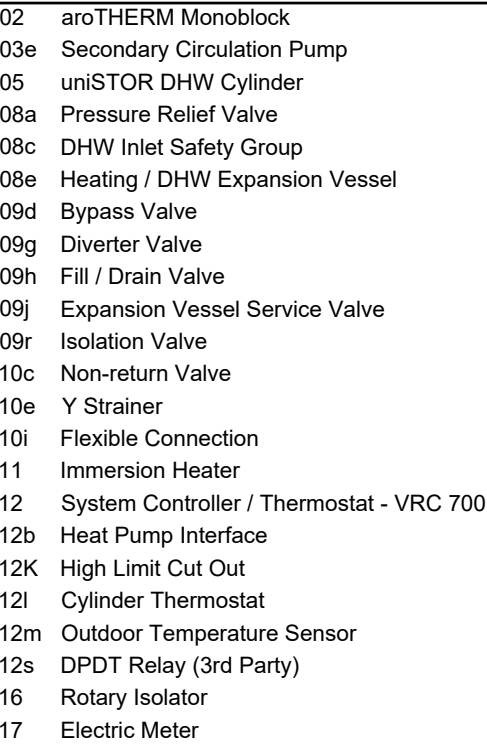
Control(s): VRC 700

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

Domestic Hot Water: 1x Cylinder

Page 1 / 3





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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.

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	

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

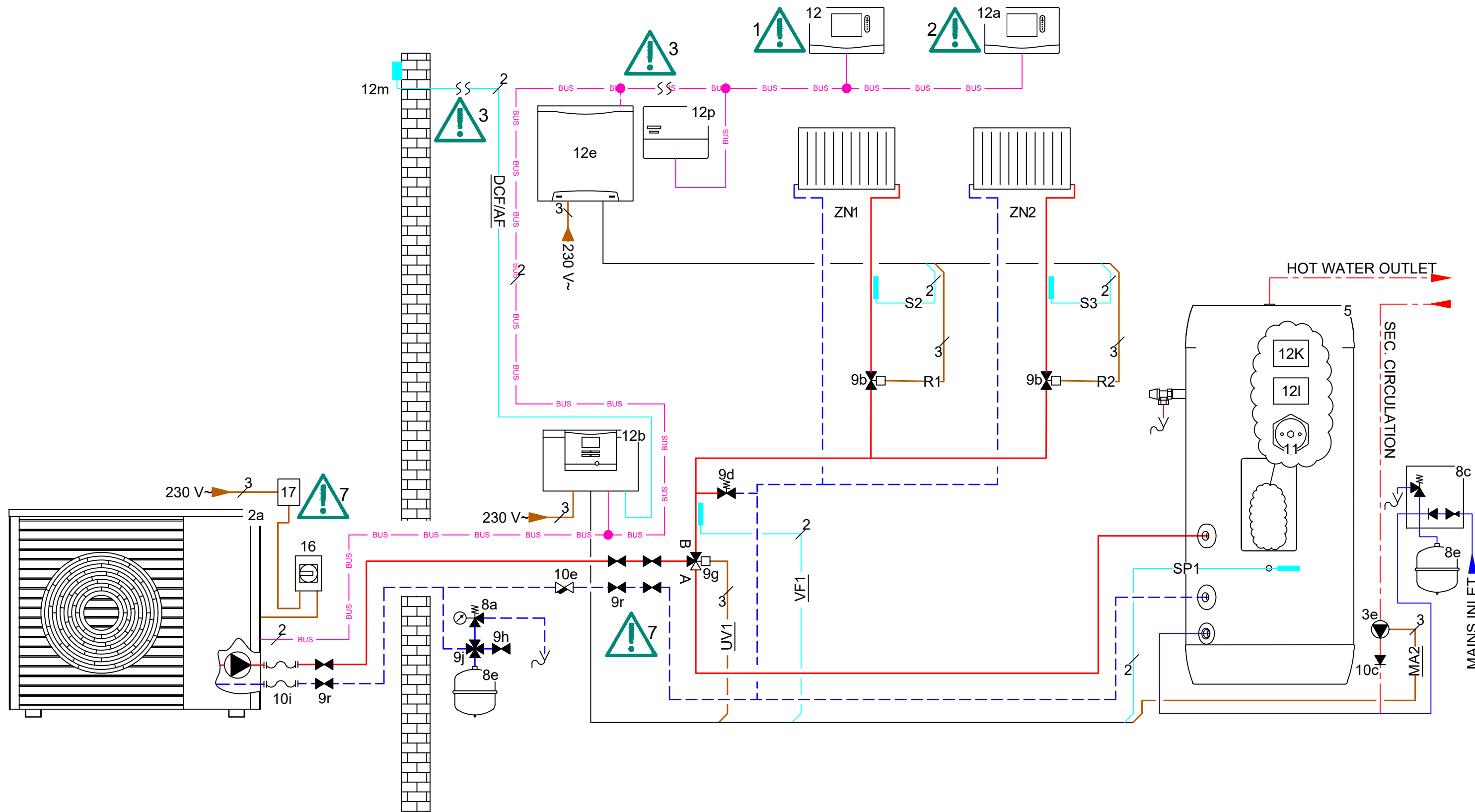
30270-1012

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)



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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

Page 1 / 3

PLEASE NOTE THAT THE DIAGRAM PROVIDED IS FOR GENERAL INFORMATION PURPOSES ONLY. THE ADVICE AND INPUT OF A PROFESSIONAL, QUALIFIED, GAS SAFE / MCS INSTALLER MUST BE SOUGHT. VAILLANT IS NOT RESPONSIBLE FOR INSTALLATIONS OR FOR THE PROFESSIONAL DESIGN OF THE SYSTEM.

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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	Setting	Value
Installation		Circuit 2	
Adapt. heat curve:	Deactivated	Circuit type:	Heating
Hybrid manager:	Bivalence pt	OT switch-off threshold:	30°
Heating bivalence point:	-20°	Heat curve:	**Site specific
DHW bivalence point:	-20°	Min. target flow temperature:	15°
Alternative point:	Off	Max. target flow temperature:	45°
ESCO:	Heating off	Set-back mode:	Normal
Back-up boiler:	Off	Room temp. mod.:	Expanded
Conf. ext. input:	Bridge, deactiv.	Zone 1	
Basic system diagram config.		Zone activated:	Yes
Basic system diagram code:	8	Zone assignment:	Control
FM5 configuration:	3	Zone 2	
FM5 MO:	Not working	Zone activated:	Yes
HP control module configuration		Zone assignment:	Rem. contr. 1
MO 2:	Circulation pump	Domestic hot water	
Circuit 1		Cylinder:	Active
Circuit type:	Heating	Anti-legio. day:	**User preference
OT switch-off threshold:	30°	Anti-legio. time:	**User preference
Heat curve:	**Site specific	Cylinder charging offset:	15 K
Min. target flow temperature:	15°	Cyl. charg. anti-cycl. time:	5 min
Max. target flow temperature:	45°		
Set-back mode:	Normal		
Room temp. mod.:	Expanded		

- | | |
|-----|--------------------------------|
| 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 | sensCOMFORT |
| 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 Receiver |
| 16 | Rotary Isolator |
| 17 | Electric Meter |

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

REV	DATE	DESCRIPTION	ZONE
-----	------	-------------	------

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 BUS

Indicates No. of cable cores

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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

30271-1012

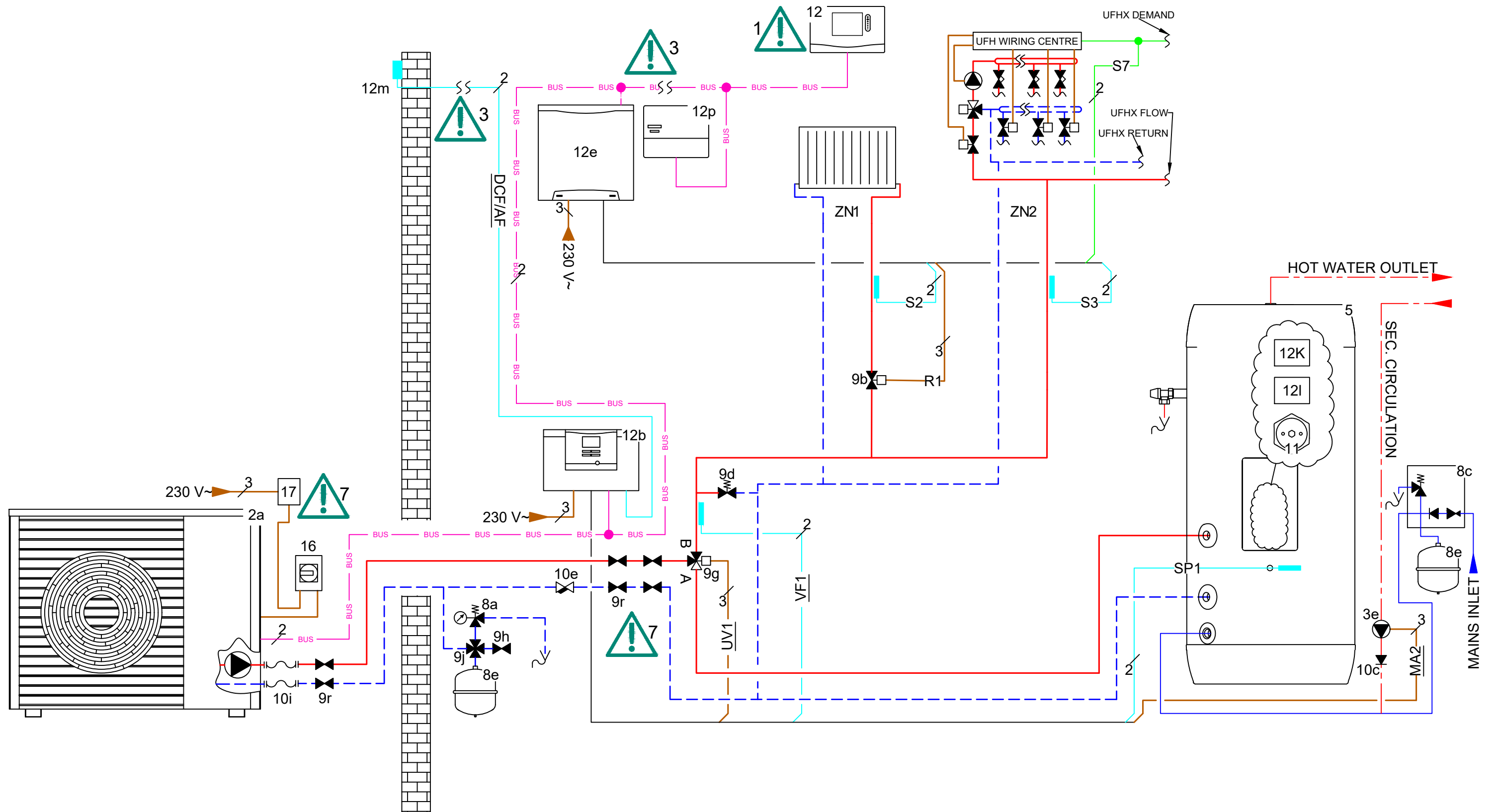


-See page 2 for detailed wiring.

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

Page 1 / 3

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.

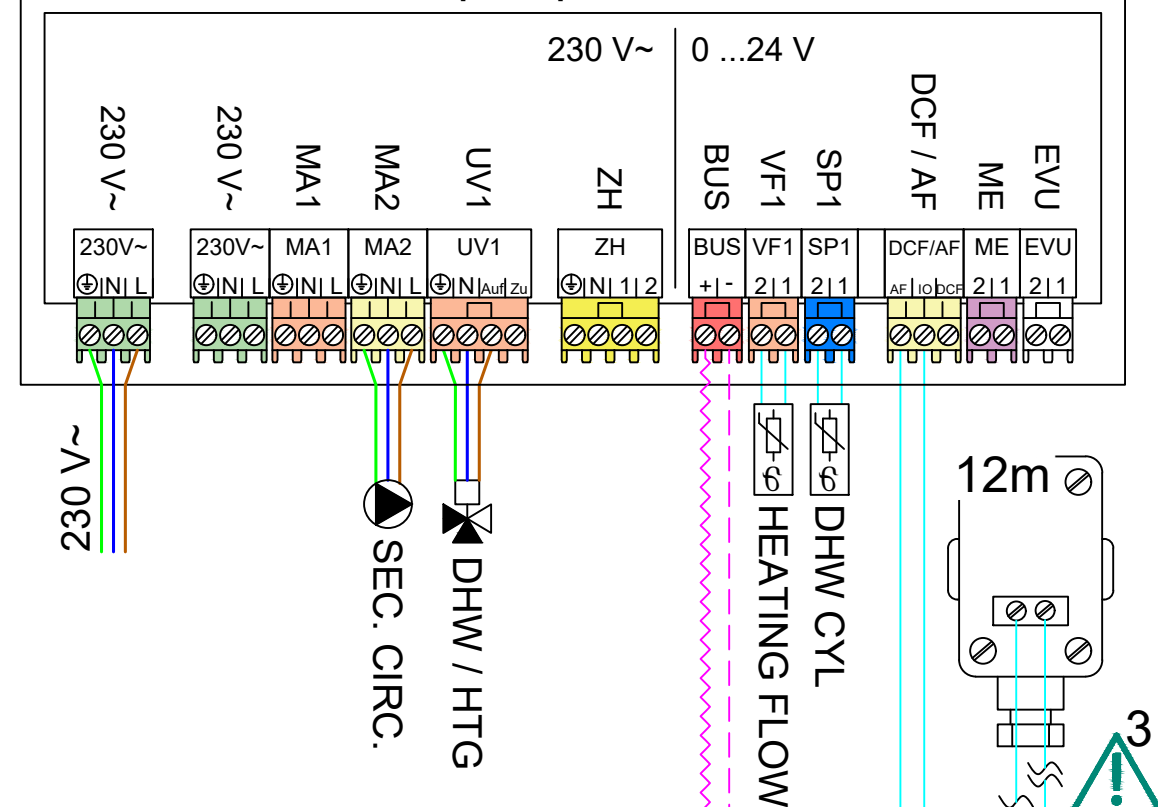
7. For meter ready requirements (RHI)

8. Immersion optional depending on DHW Temperature set point.



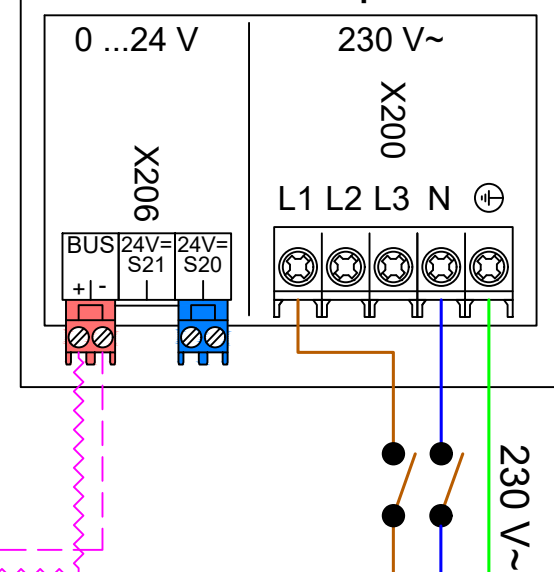
12b

Heatpump Interface

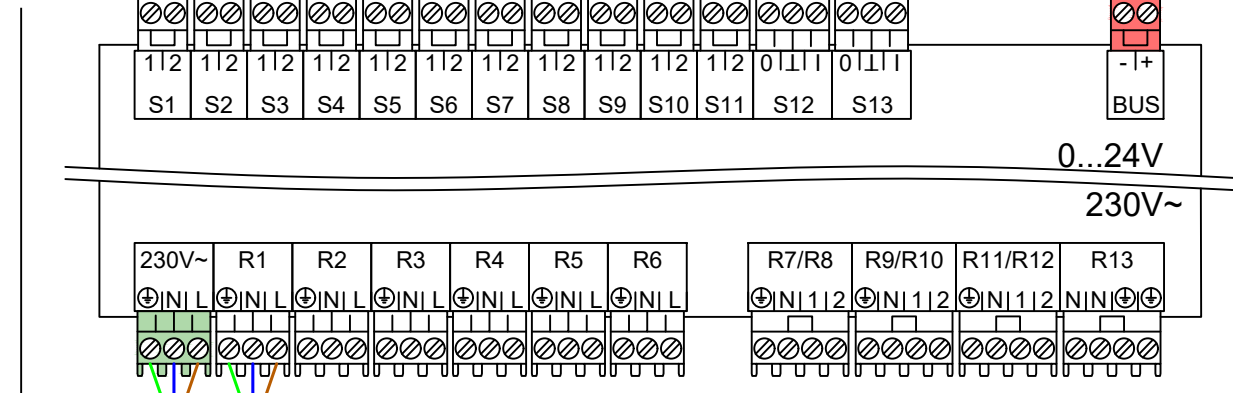


2a

Heat Pump



12e

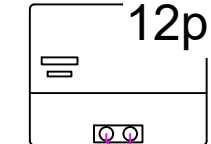


VR 71

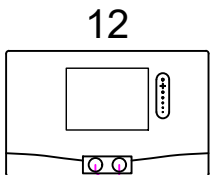
230 V~

ZN1 - RAD
ZN2 - UFH
ZN1 - RADUFH
DEMANDUFH X
DEMAND

3



12p



12



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- | | |
|-----|--------------------------------|
| 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 |

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

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

REV	DATE	DESCRIPTION	ZONE
-----	------	-------------	------

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 BUS

Indicates No. of cable cores

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Drawn: A. WILLIS

16/06/2020

REV:

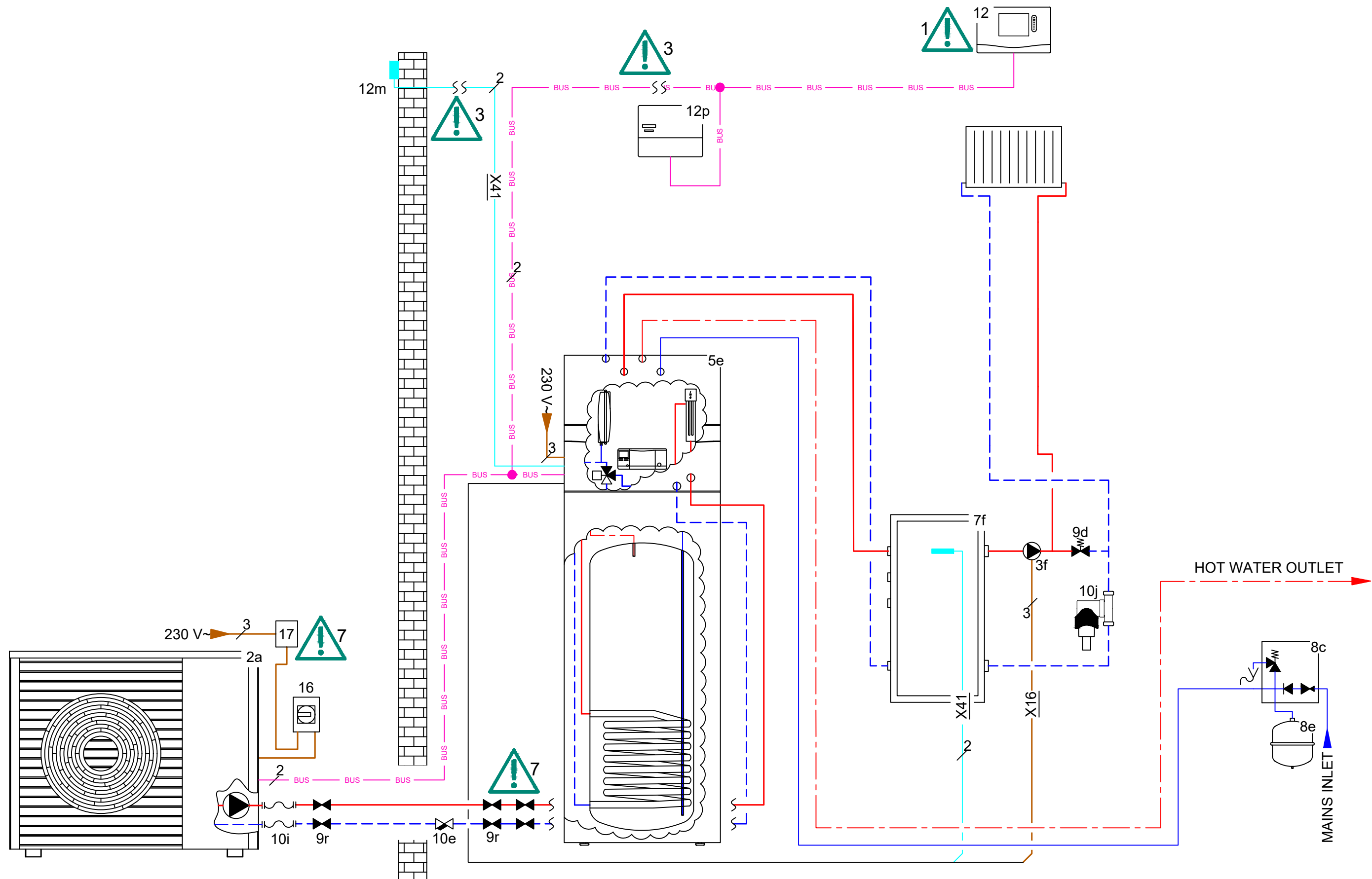
A

Appliance(s): aroTHERM Mono,

Control(s): sensoCOMFORT

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

Domestic Hot Water: 1x Cylinder

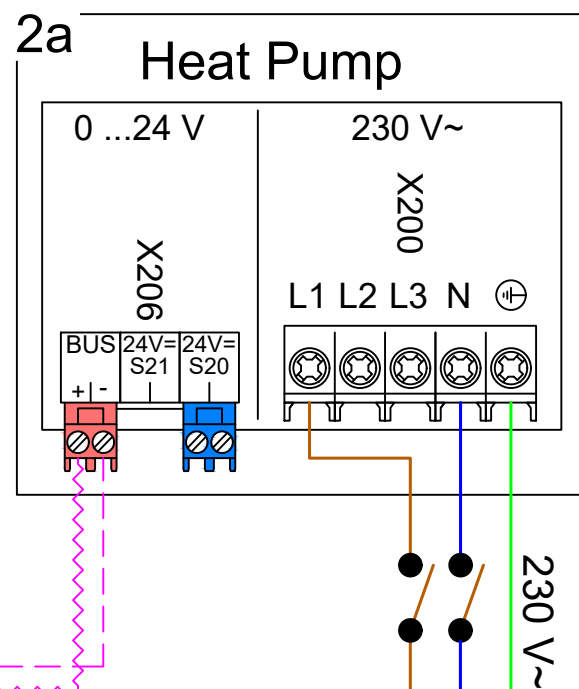
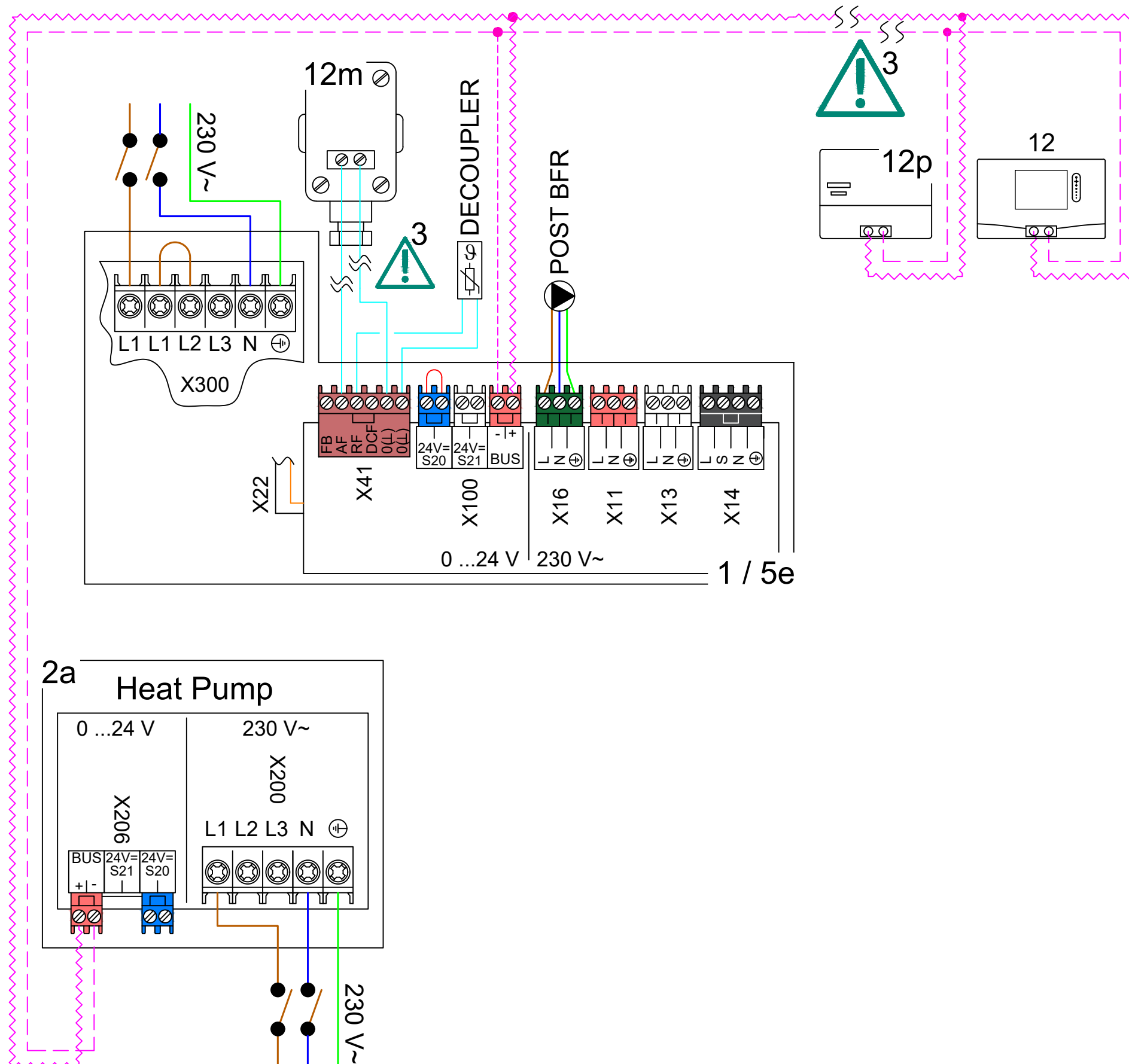


30220-1011



-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

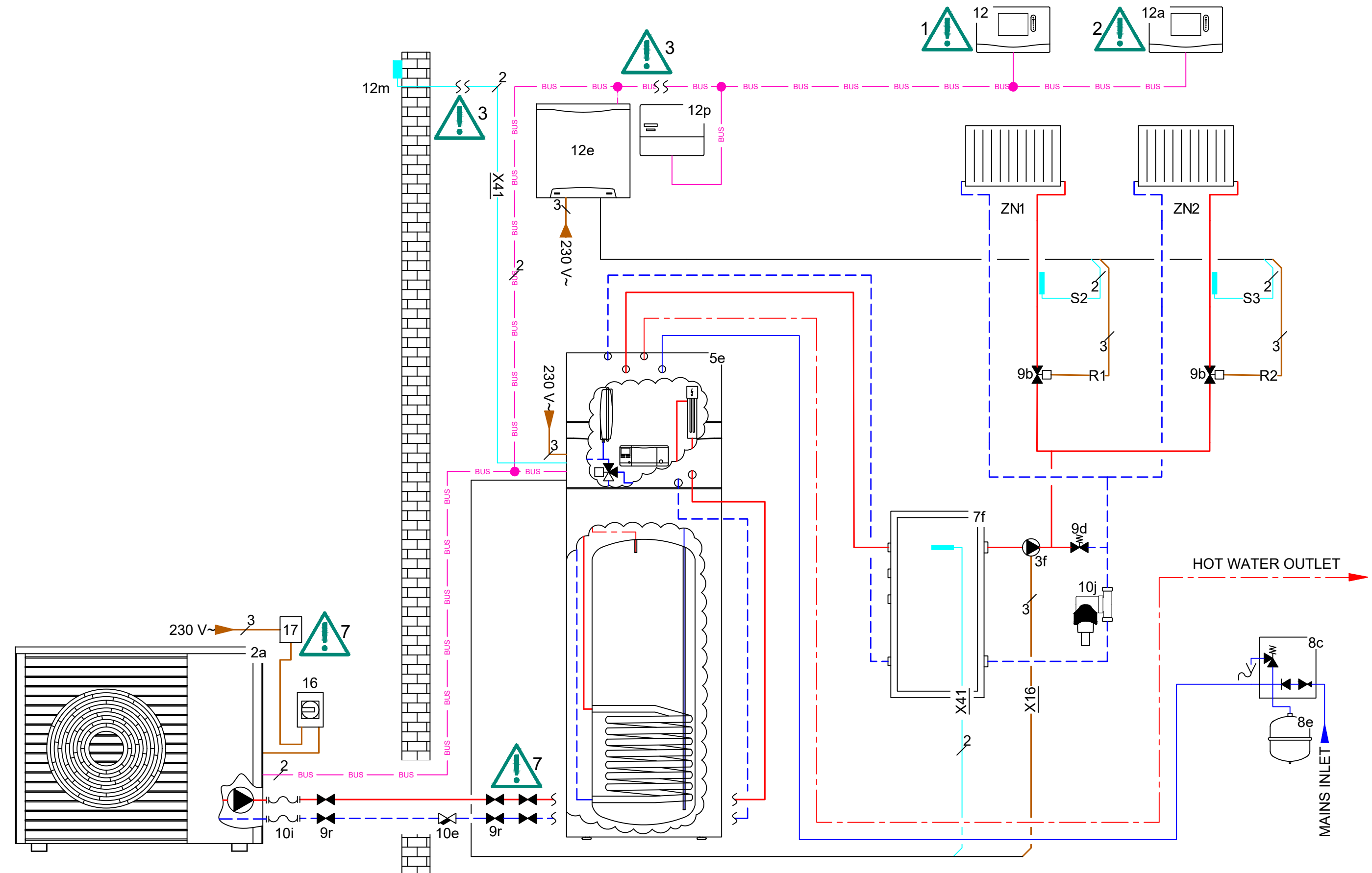
30230-1012



-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

Page 1 / 3

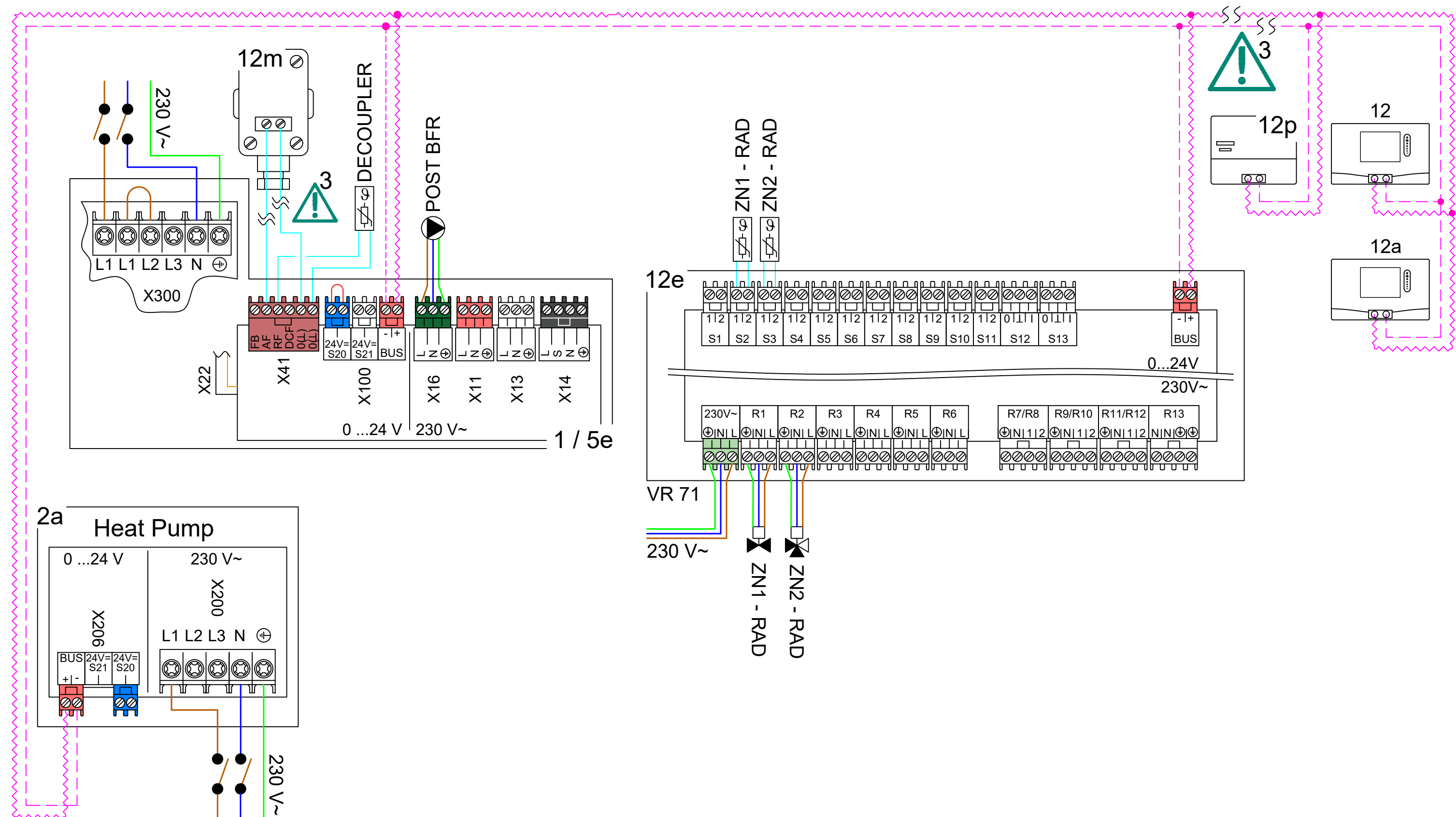
30230-1012



-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

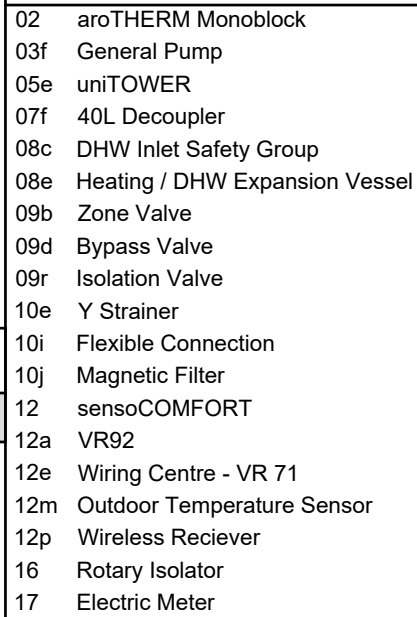
Appliance(s): aroTHERM Mono, uniTOWER, Buffer (40L Decoupler)

Control(s): sensoCOMFORT, VR 92

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

Domestic Hot Water: uniTOWER

Page 2 / 3



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[illegible]

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

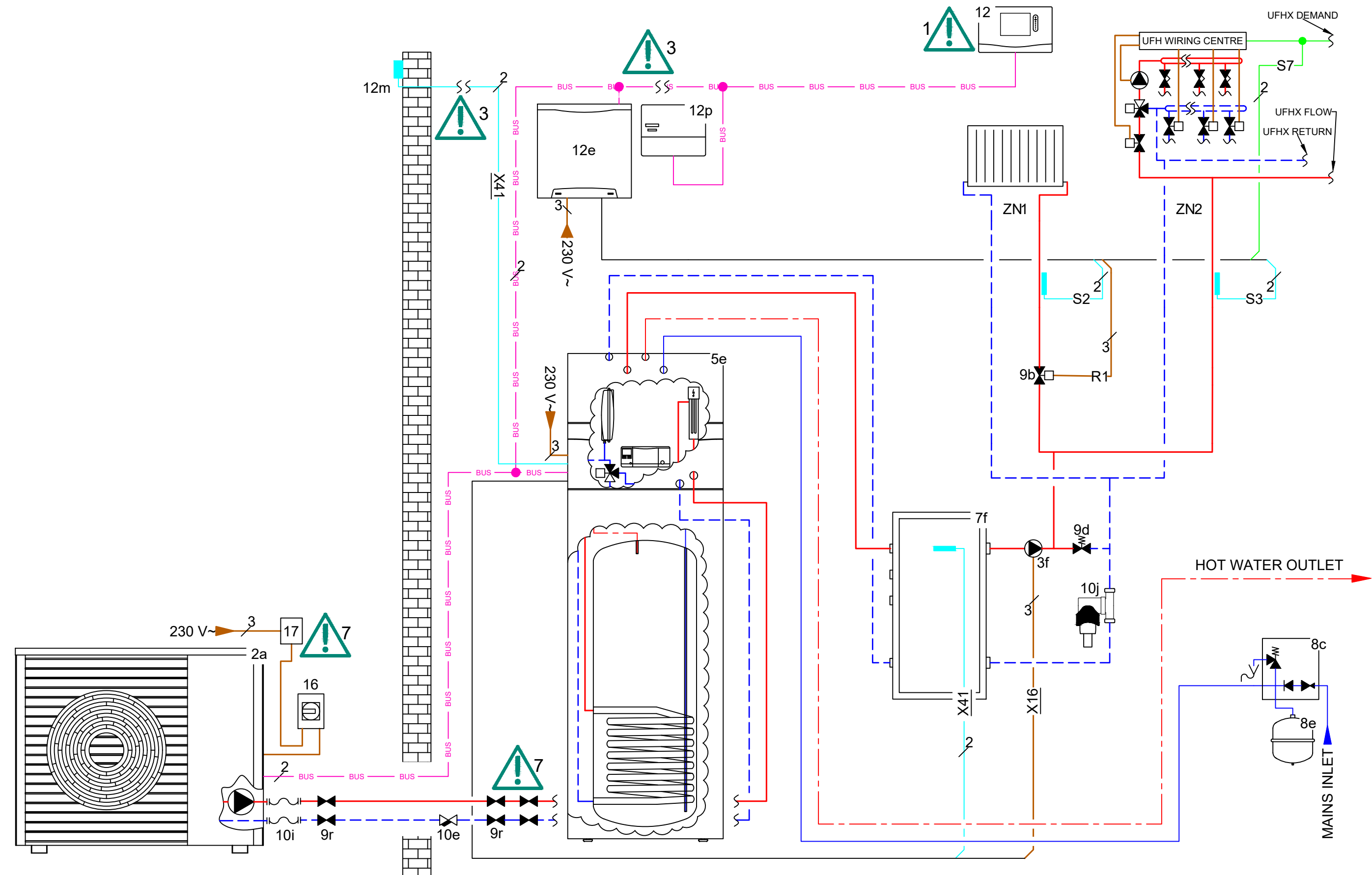
30231-1012



-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

Page 1 / 3

30231-1012



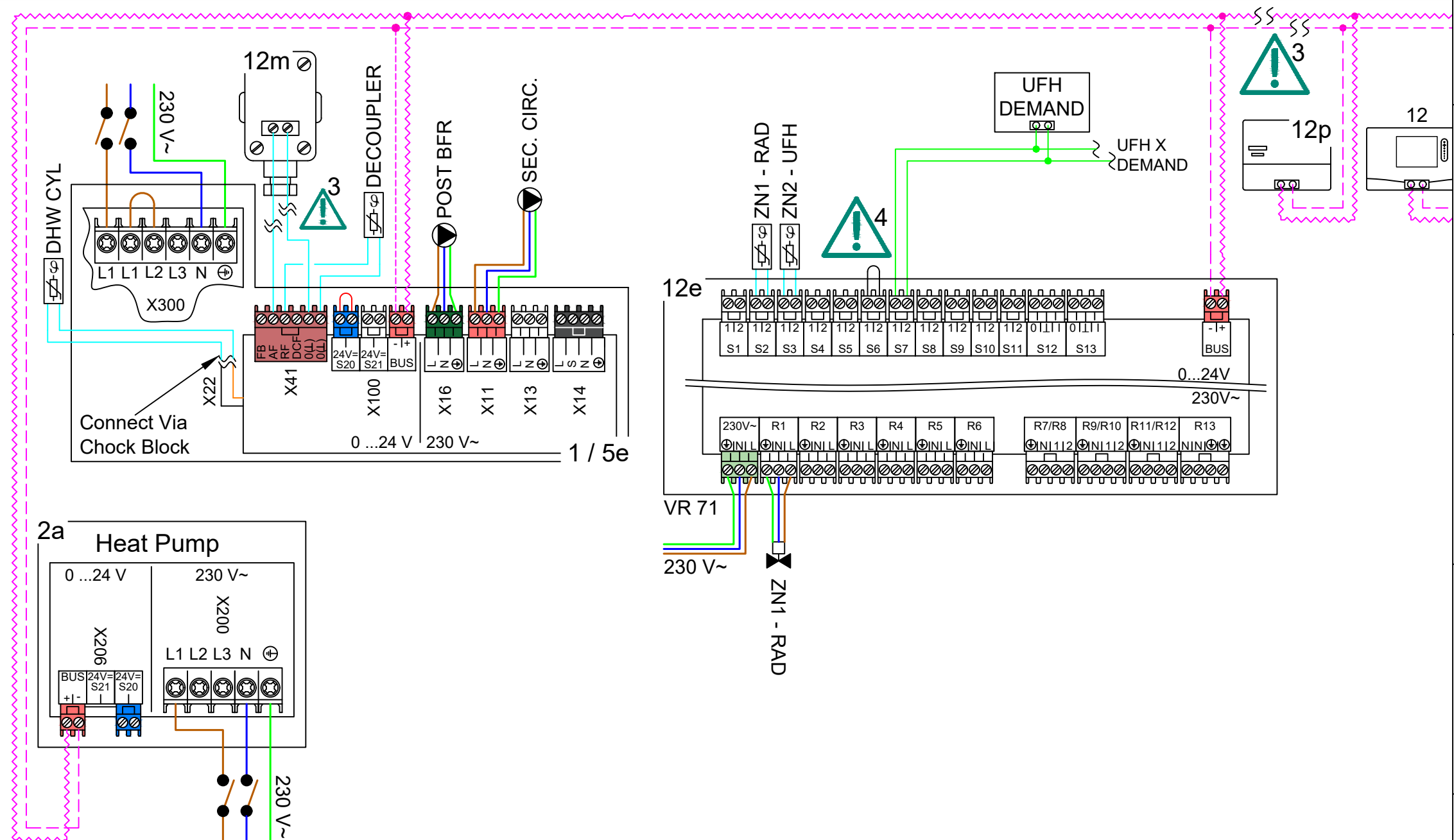
-See page 2 for detailed wiring.

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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Email: technical@vaillant.co.uk

General Enquiries:

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Telephone: 0345 601 8885

Email: training.enquiriesuk@vaillant-group.com

Spares Enquiries:

Telephone: 01773 596 615

supplier**Vaillant Ltd.**

Nottingham Road ■ Belper ■ Derbyshire ■ DE56 1JT

Telephone 0345 602 2922

info@vaillant.co.uk ■ www.vaillant.co.uk

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