System schematics for aroTHERM plus
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Bespoke schematic request
- See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
3. Controls and outdoor sensor can be wired or wireless.
7. Optional for Heat Meters.

17. Rotary isolator must be situated outside of the Protective Zone.
-See page 2 for detailed wiring.

1. See page 3 for relevant controller system configuration settings.
2. Controls and outdoor sensor can be wired or wireless.
3. Optional for Heat Meters.

17. Rotary Isolator must be situated outside of the Protective Zone.

---

**Heatpump Interface**

- **200 V~**
- **230 V~**
- **MA1**
- **MA2**
- **UV1**
- **IZ**
- **VF1**
- **SP1**
- **DCF/AF**
- **BUS**
- **EVU**

---

**Heat Pump**

- **0 ...24 V**
- **230 V~**
- **L1**
- **L2**
- **L3**
- **N**
- **S21**
- **S22**
- **S20**

---

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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>
<thead>
<tr>
<th>Setting</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td><strong>Installation</strong></td>
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</tr>
<tr>
<td>Adapt. heat curve</td>
<td>Deactivated</td>
</tr>
<tr>
<td>Hybrid manager</td>
<td>Bivalence pt</td>
</tr>
<tr>
<td>Heating bivalence point</td>
<td>-20°</td>
</tr>
<tr>
<td>DHW bivalence point</td>
<td>-20°</td>
</tr>
<tr>
<td>Alternative point</td>
<td>Off</td>
</tr>
<tr>
<td>ESCO: HP</td>
<td>Off</td>
</tr>
<tr>
<td>Back-up boiler</td>
<td>Off</td>
</tr>
<tr>
<td><strong>Basic system diagram config.</strong></td>
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<td>Basic system diagram code</td>
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<tr>
<td><strong>HP control module configuration</strong></td>
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<tr>
<td>MO 2: Circulation pump</td>
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</tr>
<tr>
<td><strong>Circuit</strong></td>
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</tr>
<tr>
<td>Circuit type</td>
<td>Heating</td>
</tr>
<tr>
<td>OT switch-off threshold</td>
<td>30°</td>
</tr>
<tr>
<td>Heat curve</td>
<td>&quot;Site specific&quot;</td>
</tr>
<tr>
<td>Min. target flow temperature</td>
<td>15°</td>
</tr>
<tr>
<td>Max. target flow temperature</td>
<td>45°</td>
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<tr>
<td>Set-back mode</td>
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<td>Room temp. mod.</td>
<td>Expanded</td>
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<tr>
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</tr>
<tr>
<td>Cylinder</td>
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</tr>
<tr>
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<td>Anti-legio. time</td>
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<tr>
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<td>15 K</td>
</tr>
<tr>
<td>Cyl. charg. anti-cycl. time</td>
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</tr>
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**Table of Changes**

<table>
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<tr>
<th>Date</th>
<th>Description</th>
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<tr>
<td>10/04/2020</td>
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<tr>
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<td>Domestic Hot Water</td>
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<tr>
<td></td>
<td>Heating Flow</td>
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<tr>
<td></td>
<td>Heating Return</td>
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<tr>
<td></td>
<td>Glycol Flow</td>
</tr>
<tr>
<td></td>
<td>Glycol Return</td>
</tr>
<tr>
<td></td>
<td>230/400V Wire</td>
</tr>
<tr>
<td></td>
<td>Low Voltage Sensor Wire</td>
</tr>
<tr>
<td></td>
<td>Low Voltage eBUS</td>
</tr>
<tr>
<td></td>
<td>Low Voltage Demand Signal</td>
</tr>
<tr>
<td></td>
<td>eBUS + eBUS -</td>
</tr>
<tr>
<td></td>
<td>Indicates Cable Junction</td>
</tr>
<tr>
<td></td>
<td>Indicates No. of cable cores</td>
</tr>
</tbody>
</table>

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**Diagram Credits**

- Drawn: A.RICE
- Appliance(s): aroTHERM Mono, Buffer (45/100L)
- Control(s): sensoCOMFORT
- HTG. Circuit(s): 1x Radiator - Direct, 
- Domestic Hot Water: 1x Cylinder

---

**Diagram Code**

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

17. Rotary isolator must be situated outside of the Protective Zone.

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

- See page 2 for detailed wiring.

17. Rotary isolator must be situated outside of the Protective Zone.
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---

**sensoCOMFORT / VRC 700 System Configuration**

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<table>
<thead>
<tr>
<th>Setting</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adapt. heat curve</td>
<td>Deactivated</td>
</tr>
<tr>
<td>Hybrid manager</td>
<td>Bivalance pt</td>
</tr>
<tr>
<td>Heating bivalence point</td>
<td>-20°</td>
</tr>
<tr>
<td>DHW bivalence point</td>
<td>-20°</td>
</tr>
<tr>
<td>Alternative point</td>
<td>Off</td>
</tr>
<tr>
<td>ESCO</td>
<td>Heating off</td>
</tr>
<tr>
<td>Back-up boiler</td>
<td>Off</td>
</tr>
</tbody>
</table>

---

**Domestic hot water**

<table>
<thead>
<tr>
<th>Setting</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cylinder</td>
<td>Active</td>
</tr>
<tr>
<td>Anti-legio. day</td>
<td><strong>User preference</strong></td>
</tr>
<tr>
<td>Anti-legio. time</td>
<td><strong>User preference</strong></td>
</tr>
<tr>
<td>Cylinder charging offset</td>
<td>15 K</td>
</tr>
<tr>
<td>Cyl. charg. anti-cycl. time</td>
<td>5 min</td>
</tr>
</tbody>
</table>

---

**installation**

- **Circuit type**: Heating
- **Min. target flow temperature**: 15°
- **Max. target flow temperature**: 45°
- **Set-back mode**: Eco
- **Room temp. mod.**: Inactive

---

**Zone 1**

- **Zone activated**: Yes
- **Zone assignment**: No assignmt

---

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---

**Appliance(s):**
- arcoTHERM Mono, Buffer (45/100L Buffer)

**Control(s):**
- sensoCOMFORT (VRC720)

**HTG. Circuit(s):**
- 1x UFH(X) - 3rd Party
- Domestic Hot Water: 1x Cylinder
- See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
2. Set VR92 remote address to its zone number - 1 eg. If VR92 is in zone 3, then remote address must be set to 2.
3. Controls and outdoor sensor can be wired or wireless
7. Optional for Heat Meters.
17. Rotary Isolator must be situated outside of the Protective Zone

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Appliance(s): aroTHERM Mono, Buffer (45L Buffer)
Control(s): sensoCOMFORT, VR 92
HTG. Circuit(s): 2x Radiator - Direct, 1x Cylinder

Domestic Hot Water: 1x Cylinder
1. See page 3 for detailed wiring.
2. Set VR92 remote address to its zone number - 1 eg. If VR92 is in zone 3, then remote address must be set to 2.
3. Controls and outdoor sensor can be wired or wireless
7. Optional for Heat Meters.
17. Rotary Isolator must be situated outside of the Protective Zone

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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
--- | ---
Adapt. heat curve | Deactivated
Hybrid manager | Bivalence pt
Heating bivalence point | -20°C
DHW bivalence point | -20°C
Alternative point | Off
ESCO | HP Off
Back-up boiler | Off
Conf. ext. input | Bridge, deactiv.

#### Basic system config.

- Basic system code: 10
- FMS configuration: 3
- FMS MO: Not working
- HP control module configuration: MO 2 Circulation pump
- Circuit 1
  - Circuit type: Heating
  - OT switch-off threshold: 30°C
  - Heat curve: "Site specific"
  - Min. target flow temperature: 15°C
  - Max. target flow temperature: 45°C
  - Set-back mode: Normal
  - Room temp. mod.: Expanded
- Domestic hot water
  - Cylinder: Active
  - Anti-legio. day: "User preference"
  - Anti-legio. time: "User preference"
  - Cylinder charging offset: 15 K
  - Cyl. charg. anti-cyd. time: 5 min

---

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Appliance(s): aroTHERM Mono, Buffer (45L Buffer)
Control(s): sensoCOMFORT, VR 92

HTG. Circuit(s): 2x Radiator - Direct, 
Domestic Hot Water: 1x Cylinder
- See page 2 for detailed wiring.
  1. See page 3 for relevant controller system configuration settings.
  2. Controls and outdoor sensor can be wired or wireless
  3. Link required (not factory fitted).

1. Optional for heat meters.
17. Rotary Isolator must be situated outside of the Protective Zone
- See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
2. Controls and outdoor sensor can be wired or wireless.
7. Optional for Heat Meters.

12. Rotary isolator must be situated outside of the Protective Zone.

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

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

**Drawn:** A. Rice
**REV:** C
24/10/2022

Page 1/3
1. See page 3 for relevant controller system configuration settings.
3. Controls and outdoor sensor can be wired or wireless
7. Optional for Heat Meters

- See page 2 for detailed wiring.

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**List of Equipment**

- **sensoCOMFORT / VRC 700 System Configuration**

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<thead>
<tr>
<th>Setting</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Installation</strong></td>
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</tr>
<tr>
<td>Adapt. heat curve</td>
<td>Deactivated</td>
</tr>
<tr>
<td>Hybrid manager</td>
<td>Bivalence pt</td>
</tr>
<tr>
<td>Heating bivalence point</td>
<td>-20°</td>
</tr>
<tr>
<td>DHW bivalence point</td>
<td>-20°</td>
</tr>
<tr>
<td>Alternative point</td>
<td>Off</td>
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<td>ESCO</td>
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<tr>
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<td>MO 2</td>
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<tr>
<td><strong>Circuit</strong></td>
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<td>Circuit type</td>
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<td>Heat curve</td>
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<td>Max. target flow temperature</td>
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<td>Set-back mode</td>
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<td>Room temp. mod.</td>
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<td><strong>Domestic hot water</strong></td>
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<td>Anti-legio. day</td>
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<td>CyL. charg. anti-cycl. time</td>
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**Adapt. heat curve:**

- Deactivated

**Hybrid manager:**

- Bivalence pt

**Heating bivalence point:**

- -20°

**DHW bivalence point:**

- -20°

**Alternative point:**

- Off

**ESCO:**

- HP Off

**Back-up boiler:**

- Off

**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 activated:**

- Yes

**Zone assignment:**

- Control

**Cylinder:**

- Active

**Anti-legio. day:**

- **User preference**

**Anti-legio. time:**

- **User preference**

**Cylinder charging offset:**

- 15 K

**CyL. charg. anti-cycl. time:**

- 5 min

---

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

17. Rotary Isolator must be situated outside of the Protective Zone

---

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**Appliance(s):** arTHERM Mono, Heat Ex. Module, Buffer (45/100L)
**Control(s):** sensoCOMFORT VRC 720

**HTG. Circuit(s):** 1x UFH(X) - 3rd Party, 1x Cylinder
**Domestic Hot Water:** 1x Cylinder
1. See page 3 for relevant controller system configuration settings.
5. DPDT Relay (not supplied by Vaillant). See page 2 for detailed wiring.
7. Optional for Heat Meters

DHW CYL 12m

DHW / HTG POST BFR

24V= S21

BUS - +

X206

N L3 L2 L1 0 ...24 V 230 V~

Heat Pump

230 V~ 230 V~

X200

L1 L2 L3 N +

Heatpump Interface

230 V~ 230 V~

UV1 MA1 MA2 UV1 UV1

Z H H Z BUS

VF1 SP1 DCF/AF DCF/AF - +

ME ME ME

EVU EVU

UFH X DEMAND

UFH 1 DEMAND

12m

12a

Heatpump Interface

230 V~

POST BFR

Hex. Module

SEC. CIRC.

12s

Rotary Isolator must be situated outside of the Protective Zone
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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.

### Installation

<table>
<thead>
<tr>
<th>Setting</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adapt. heat curve</td>
<td>Deactivated</td>
</tr>
<tr>
<td>Hybrid manager</td>
<td>Bivalence pt</td>
</tr>
<tr>
<td>Heating bivalence point</td>
<td>-20°</td>
</tr>
<tr>
<td>DHW bivalence point</td>
<td>-20°</td>
</tr>
<tr>
<td>Alternative point</td>
<td>Off</td>
</tr>
<tr>
<td>ESCO</td>
<td>Heating off</td>
</tr>
<tr>
<td>Back-up boiler</td>
<td>Off</td>
</tr>
</tbody>
</table>

### Basic system diagram config.

- Basic system diagram code: 10

### HP control module configuration

- MO 2: Circulation pump

### Circuit 1

- Circuit type: Heating
- OT switch-off threshold: 30°
- Heat curve: **Site specific**
- Min. target flow temperature: 15°
- Max. target flow temperature: 45°
- Set-back mode: Eco
- Room temp. mod.: Inactive

### Zone 1

- Zone activated: Yes
- Zone assignment: No assignmt

---

**Appliance(s):** arcoTHERM Mono, Heat Ex. Module, Buffer (45/100L)

**Control(s):** sensoCOMFORT VRC 720
- See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
2. Set VR92 remote address to its zone number - 1 eg. If VR92 is in zone 3, then remote address must be set to 2.
3. Controls and outdoor sensor can be wired or wireless
7. Optional for Heat Meters
17. Rotary Isolator must be situated outside of the Protective Zone

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.
1. See page 3 for relevant controller system configuration settings.
2. Set VR92 remote address to its zone number - 1, eg. If VR92 is in zone 3, then remote address must be set to 2.
3. Controls and outdoor sensor can be wired or wireless
7. Optional for Heat Meters
17. Rotary Isolator must be situated outside of the Protective Zone
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.

**Basic system diagram config.**
- Basic system code: 10
- FM5 configuration: 3
- HP MO: Not working
- 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

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

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

17. Rotary isolator must be situated outside of the Protective Zone

---

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A. Rice
24/10/2022

Appliance(s): arCOmfort Mono, Heat Ex. Module, Buffer (45/100L Buffer)

Control(s): sensoCOMFORT

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

---

Page 1/3
12b Heatpump Interface

12m

12e

Heat Pump

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

Control(s): sensoCOMFORT

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

Domestic Hot Water: 1x Cylinder

Rotary Isolator must be situated outside of the Protective Zone

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

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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>
<thead>
<tr>
<th>Setting</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Installation</strong></td>
<td></td>
</tr>
<tr>
<td>Adapt. heat curve</td>
<td>Deactivated</td>
</tr>
<tr>
<td>Hybrid manager</td>
<td></td>
</tr>
<tr>
<td>Heating bivalence pt</td>
<td></td>
</tr>
<tr>
<td>DHW bivalence point</td>
<td>-20°C</td>
</tr>
<tr>
<td>Alternative point</td>
<td>Off</td>
</tr>
<tr>
<td>ESCO</td>
<td>HP Off</td>
</tr>
<tr>
<td>Back-up boiler</td>
<td>Off</td>
</tr>
<tr>
<td>Conf. ext. input</td>
<td>Open, deadiv.</td>
</tr>
<tr>
<td><strong>Basic system diagram config.</strong></td>
<td></td>
</tr>
<tr>
<td>Basic system code</td>
<td>10</td>
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<tr>
<td>FM5 configuration</td>
<td>3</td>
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<tr>
<td>FM5 MO</td>
<td>Not working</td>
</tr>
<tr>
<td>HP control module configuration</td>
<td></td>
</tr>
<tr>
<td>MO 2</td>
<td>Circulation pump</td>
</tr>
<tr>
<td><strong>Circuit1</strong></td>
<td></td>
</tr>
<tr>
<td>Circuit type</td>
<td>Heating</td>
</tr>
<tr>
<td>OT switch-off threshold</td>
<td>30°C</td>
</tr>
<tr>
<td>Heat curve</td>
<td>&quot;Site specific&quot;</td>
</tr>
<tr>
<td>Min. target flow temperature</td>
<td>15°C</td>
</tr>
<tr>
<td>Max. target flow temperature</td>
<td>45°C</td>
</tr>
<tr>
<td>Set-back mode</td>
<td>Normal</td>
</tr>
<tr>
<td>Room temp. mod.</td>
<td>Expanded</td>
</tr>
<tr>
<td><strong>Domestic hot water</strong></td>
<td></td>
</tr>
<tr>
<td>Cylinder</td>
<td>Active</td>
</tr>
<tr>
<td>Anti-legio. day</td>
<td>&quot;User preference&quot;</td>
</tr>
<tr>
<td>Anti-legio. time</td>
<td>&quot;User preference&quot;</td>
</tr>
<tr>
<td>Cylinder charging offset</td>
<td>15 K</td>
</tr>
<tr>
<td>Cyl. charg. anti-cyl. time</td>
<td>5 min</td>
</tr>
</tbody>
</table>

---

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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. Optional for Heat Meters

17. Rotary Isolator must be situated outside of the Protective Zone

---

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Drawn: A. Rice
24/10/2022

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

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

Page 1/3
1. See page 2 for detailed wiring.
2. See page 3 for relevant controller system configuration settings.
3. Controls and outdoor sensor can be wired or wireless
7. Optional for Heat Meters

---

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Drawn: A.Rice
24/10/2022

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Control(s): sensoCOMFORT

HTG. Circuit(s): 1x Radiator - Direct, 0
Domestic Hot Water: 1x Cylinder
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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>
<thead>
<tr>
<th>Setting</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Circuit type</td>
<td>Heating</td>
</tr>
<tr>
<td>OT switch-off threshold</td>
<td>30°</td>
</tr>
<tr>
<td>Heat curve</td>
<td><strong>Site specific</strong></td>
</tr>
<tr>
<td>Min. target flow temperature</td>
<td>15°</td>
</tr>
<tr>
<td>Max. target flow temperature</td>
<td>45°</td>
</tr>
<tr>
<td>Set-back mode</td>
<td>Normal</td>
</tr>
<tr>
<td>Room temp. mod.</td>
<td>Expanded</td>
</tr>
<tr>
<td>Zone activated</td>
<td>Yes</td>
</tr>
<tr>
<td>Zone assignment</td>
<td>Control</td>
</tr>
<tr>
<td>Domestic hot water</td>
<td></td>
</tr>
<tr>
<td>Cylinder</td>
<td>Active</td>
</tr>
<tr>
<td>Anti-legio. day</td>
<td><strong>User preference</strong></td>
</tr>
<tr>
<td>Anti-legio. time</td>
<td><strong>User preference</strong></td>
</tr>
<tr>
<td>Cylinder charging offset</td>
<td>15 K</td>
</tr>
<tr>
<td>Cyl. charg. anti-cycl. time</td>
<td>5 min</td>
</tr>
</tbody>
</table>

 sensoCOMFORT / VRC 700 System Configuration

Please note that the image contains a schematic diagram of a Vaillant heating system, including various components and their connections. The diagram outlines the system configuration and includes settings and values for installation and operation. The text provides terms and conditions for using the schematic diagrams and emphasizes the importance of seeking professional advice for installations. The diagram is intended for general information purposes and should not be used without the prior permission of Vaillant. Any reproduction of the design must comply with applicable laws and regulations. Vaillant is not responsible for any inaccuracies or omissions in the information and drawings provided to it. Any reliance on the diagram is at the user's own risk, and the disclaimers are governed by English law.
- See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
5. DPDT Relay (not supplied by Vaillant). See page 2 for detailed wiring.
7. Optional for Heat Meters

17. Rotary isolator must be situated outside of the Protective Zone

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A.RICE
19/10/2022

Appliance(s): aroTHERM Mono, Heat Ex. Module
Control(s): VRC 720
HTG. Circuit(s): 1x UFH(X) - 3rd Party
Domestic Hot Water: 1x Cylinder

Page 1/3
1. See page 3 for relevant controller system configuration settings.
5. DPDT Relay (not supplied by Vaillant). See page 2 for detailed wiring.
7. Optional for Heat Meters

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

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

---

Appliance(s): aroTHERM Mono, Heat Ex. Module
Control(s): VRC 720
HTG. Circuit(s): 1x UFH(X) - 3rd Party, Domestic Hot Water: 1x Cylinder
- See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
2. Set VR92 remote address to its zone number - 1
   eg. If VR92 is in zone 3, then remote address must be set to 2.
3. Controls and outdoor sensor can be wired or wireless
7. Optional for Heat Meters
17. Rotary Isolator must be situated outside of the Protective Zone
1. See page 3 for relevant controller system configuration settings.
2. Set VR92 remote address to its zone number - 1 eg. if VR92 is in zone 3, then remote address must be set to 2.
3. Controls and outdoor sensor can be wired or wireless
7. Optional for Heat Meters
17. Rotary Isolator must be situated outside of the Protective Zone

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A.Rice 24/10/2022

Appliance(s): aroTHERM Mono, Heat Ex. Module
Control(s): sensoCOMFORT, VR 92
HTG. Circuit(s): 2x Radiator - Direct,
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sensoCOMFORT / VRC 700 System Configuration

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<thead>
<tr>
<th>Setting</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Circuit 2</td>
<td></td>
</tr>
<tr>
<td>Circuit type</td>
<td>Heating</td>
</tr>
<tr>
<td>OT switch-off threshold</td>
<td>30°</td>
</tr>
<tr>
<td>Heat curve</td>
<td><strong>Site specific</strong></td>
</tr>
<tr>
<td>Min. target flow temperature</td>
<td>15°</td>
</tr>
<tr>
<td>Max. target flow temperature</td>
<td>45°</td>
</tr>
<tr>
<td>Set-back mode</td>
<td>Normal</td>
</tr>
<tr>
<td>Room temp. mod.</td>
<td>Expanded</td>
</tr>
<tr>
<td>Zone 1</td>
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<tr>
<td>Zone activated</td>
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<td>Zone assignment</td>
<td>Control</td>
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<tr>
<td>Zone 2</td>
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</tr>
<tr>
<td>Zone activated</td>
<td>Yes</td>
</tr>
<tr>
<td>Zone assignment</td>
<td>Rem. contr. 1</td>
</tr>
<tr>
<td>Domestic hot water</td>
<td></td>
</tr>
<tr>
<td>Cylinder</td>
<td>Active</td>
</tr>
<tr>
<td>Anti-legio. day</td>
<td><strong>User preference</strong></td>
</tr>
<tr>
<td>Anti-legio. time</td>
<td><strong>User preference</strong></td>
</tr>
<tr>
<td>Cylinder charging offset</td>
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</tr>
<tr>
<td>Cyl. charg. anti-cyd. time</td>
<td>5 min</td>
</tr>
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Appliance(s): aroTHERM Mono, Heat Ex. Module
Control(s): sensoCOMFORT

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

Drawn: A.RICE
24/10/2022

REV: A

Page 1/3

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

1. Optional for Heat Meters
17. Rotary Isolator must be situated outside of the Protective Zone

---

-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).

1. Optional for Heat Meters
17. Rotary Isolator must be situated outside of the Protective Zone
**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.

### Installation

- **Setting**
- **Value**

  - **Adapt. heat curve**
    - Deactivated
  - **Hybrid manager**
    - Bivalence pt
  - **Heating bivalence point**
    - -20°
  - **DHW bivalence point**
    - -20°
  - **Alternative point**
    - Off
  - **ESCO**
    - HP Off
  - **Back-up boiler**
    - Off
  - **Conf. ext. input**
    - Open, deadiv.

### Basic system diagram config.

- **Basic system code**
  - 10
- **FMS configuration**
  - 3
- **FMS MO**
  - Not working

### HP control module configuration

- **Circuit 1**
  - **Circuit type**
    - Heating
  - **OT switch-off threshold**
    - 30°
  - **Heat curve**
    - **Site specific**
  - **Min. target flow temperature**
    - 15°
  - **Max. target flow temperature**
    - 45°
  - **Set-back mode**
    - Eco
  - **Room temp. mod.**
    - Inactive

### Zone 1

- **Zone activated**
  - Yes
- **Zone assignment**
  - 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-cyd. time**
  - 5 min

---

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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. Optional for Heat Meters

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Drawn: A.RICE
Control(s): sensoCOMFORT
Appliance(s): aroSHERM Mono, Hydraulic Station, Buffer (45/100L)
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.
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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>
<thead>
<tr>
<th>Setting</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation</td>
<td></td>
</tr>
<tr>
<td>Adapt. heat curve:</td>
<td>Deactivated</td>
</tr>
<tr>
<td>Hybrid manager:</td>
<td>Bivalence pt</td>
</tr>
<tr>
<td>Heating bivalence point:</td>
<td>-20°</td>
</tr>
<tr>
<td>DHW bivalence point:</td>
<td>-20°</td>
</tr>
<tr>
<td>Alternative point:</td>
<td>Off</td>
</tr>
<tr>
<td>ESCO:</td>
<td>HP Off</td>
</tr>
<tr>
<td>Back-up boiler:</td>
<td>Off</td>
</tr>
<tr>
<td>Conf. ext. input:</td>
<td>Bridge, deactiv.</td>
</tr>
</tbody>
</table>

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

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.
- 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. Optional for Heat Meters

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sensoCOMFORT / VRC 700 System Configuration

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<table>
<thead>
<tr>
<th>Setting</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Domestic hot water</td>
<td></td>
</tr>
<tr>
<td>Cylinder</td>
<td>Active</td>
</tr>
<tr>
<td>Anti-lego. day</td>
<td><strong>User preference</strong></td>
</tr>
<tr>
<td>Anti-lego. time</td>
<td><strong>User preference</strong></td>
</tr>
<tr>
<td>Cylinder charging offset</td>
<td>15 K</td>
</tr>
<tr>
<td>Cyl. charg. anti-cyld. time</td>
<td>5 min</td>
</tr>
</tbody>
</table>

sensoCOMFORT / VRC 720

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

Control(s): sensoCOMFORT VRC720

HTG. Circuit(s): 1x UF(H)X - 3rd Party
Domestic Hot Water: 1x Cylinder
1. See page 3 for relevant controller system configuration settings.
2. Set VR92 remote address to its zone number - 1
   eg. If VR92 is in zone 3, then remote address must be set to 2.
3. Controls and outdoor sensor can be wired or wireless
7. Optional for Heat Meters
17. Rotary Isolator must be situated outside of the Protective Zone

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Appliance(s): areTHERM Mono, Hydraulic Station, Buffer (45/100L)
Control(s): sensoCOMFORT
HTG. Circuit(s): 2x Radiator - Direct, 1x Cylinder
Domestic Hot Water: 1x Cylinder
See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
2. Set VR92 remote address to its zone number - 1
   eg. If VR92 is in zone 3, then remote address must be set to 2.
3. Controls and outdoor sensor can be wired or wireless
7. Optional for Heat Meters
17. Rotary Isolator must be situated outside of the Protective Zone

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### sensoCOMFORT / VRC 700 System Configuration

<table>
<thead>
<tr>
<th>Setting</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Installation</strong></td>
<td></td>
</tr>
<tr>
<td>Adapt. heat curve:</td>
<td>Deactivated</td>
</tr>
<tr>
<td>Hybrid manager:</td>
<td>Bivalence pt</td>
</tr>
<tr>
<td>Heating bivalence point:</td>
<td>-20°C</td>
</tr>
<tr>
<td>DHW bivalence point:</td>
<td>-20°C</td>
</tr>
<tr>
<td>Alternative point:</td>
<td>Off</td>
</tr>
<tr>
<td>ESCO:</td>
<td>HP Off</td>
</tr>
<tr>
<td>Back-up boiler:</td>
<td>Off</td>
</tr>
<tr>
<td>Conf. ext. input:</td>
<td>Bridge, deactiv.</td>
</tr>
<tr>
<td><strong>Basic system diagram config.</strong></td>
<td></td>
</tr>
<tr>
<td>Basic system diagram code:</td>
<td>10</td>
</tr>
<tr>
<td><strong>HP control module configuration</strong></td>
<td></td>
</tr>
<tr>
<td>MO 2 :</td>
<td></td>
</tr>
<tr>
<td>Circulation pump</td>
<td></td>
</tr>
<tr>
<td><strong>Circuit 1</strong></td>
<td></td>
</tr>
<tr>
<td>Circuit type:</td>
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</tr>
<tr>
<td>OT switch-off threshold:</td>
<td>30°C</td>
</tr>
<tr>
<td>Heat curve:</td>
<td>&quot;Site specific&quot;</td>
</tr>
<tr>
<td>Min. target flow temperature:</td>
<td>15°C</td>
</tr>
<tr>
<td>Max. target flow temperature:</td>
<td>45°C</td>
</tr>
<tr>
<td>Set-back mode:</td>
<td>Normal</td>
</tr>
<tr>
<td>Room temp. mod.:</td>
<td>Normal</td>
</tr>
<tr>
<td><strong>Circuit 2</strong></td>
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<tr>
<td>Circuit type:</td>
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</tr>
<tr>
<td>OT switch-off threshold:</td>
<td>30°C</td>
</tr>
<tr>
<td>Heat curve:</td>
<td>&quot;Site specific&quot;</td>
</tr>
<tr>
<td>Min. target flow temperature:</td>
<td>15°C</td>
</tr>
<tr>
<td>Max. target flow temperature:</td>
<td>45°C</td>
</tr>
<tr>
<td>Set-back mode:</td>
<td>Normal</td>
</tr>
<tr>
<td>Room temp. mod.:</td>
<td>Expanded</td>
</tr>
<tr>
<td><strong>Domestic hot water</strong></td>
<td></td>
</tr>
<tr>
<td>Cylinder:</td>
<td>Active</td>
</tr>
<tr>
<td>Anti-legio. day:</td>
<td><strong>User preference</strong></td>
</tr>
<tr>
<td>Anti-legio. time:</td>
<td><strong>User preference</strong></td>
</tr>
<tr>
<td>Cylinder charging offset:</td>
<td>15 K</td>
</tr>
<tr>
<td>Cyl. charg. anti-cycl. time:</td>
<td>5 min</td>
</tr>
</tbody>
</table>

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During the planning, design, installation and later use of the system, all operating instructions must be followed.
- See page 2 for detailed wiring.

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

- Optional for Heat Meters
17. Rotary Isolator must be situated outside of the Protective Zone

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Drawn: A RICE
Control(s): sensoCOMFORT
Appliance(s): aroTHERM Mono, Hydraulic Station, Buffer (45/100L)
HTG. Circuit(s): 1x Radiator - Direct, 1x UFH(X) - 3rd Party
Domestic Hot Water: 1x Cylinder
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sensoCOMFORT / VRC 700 System Configuration

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<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Zone 1</strong></td>
<td></td>
</tr>
<tr>
<td>Zone activated:</td>
<td>Yes</td>
</tr>
<tr>
<td>Zone assignment:</td>
<td>Control</td>
</tr>
<tr>
<td><strong>Zone 2</strong></td>
<td></td>
</tr>
<tr>
<td>Zone activated:</td>
<td>Yes</td>
</tr>
<tr>
<td>Zone assignment:</td>
<td>No assignment</td>
</tr>
<tr>
<td>Domestic hot water</td>
<td></td>
</tr>
<tr>
<td>Cylinder:</td>
<td>Active</td>
</tr>
<tr>
<td>Anti-legio. day:</td>
<td><strong>User preference</strong></td>
</tr>
<tr>
<td>Anti-legio. time:</td>
<td><strong>User preference</strong></td>
</tr>
<tr>
<td>Cylinder charging offset:</td>
<td>15 K</td>
</tr>
<tr>
<td>Cyl. charg. anti-cyl. time:</td>
<td>5 min</td>
</tr>
</tbody>
</table>

**Site specific**

Indicates No. of cable cores
Indicates Cable Junction
- See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
3. Controls and outdoor sensor can be wired or wireless
7. Optional for Heat Meters

17. Rotary isolator must be situated outside of the Protective Zone

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<td>HP Off</td>
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<tr>
<td>Back-up boiler</td>
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<td>Bridge, deact.</td>
</tr>
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<td></td>
</tr>
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</tr>
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<td>MO 2 Circulation pump</td>
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</tr>
<tr>
<td>Circuit 1</td>
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</tr>
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<td>Circuit type</td>
<td>Heating</td>
</tr>
<tr>
<td>OT switch-off threshold</td>
<td>30°</td>
</tr>
<tr>
<td>Heat curve</td>
<td>“Site specific”</td>
</tr>
<tr>
<td>Min. target flow temperature</td>
<td>15°</td>
</tr>
<tr>
<td>Max. target flow temperature</td>
<td>45°</td>
</tr>
<tr>
<td>Set-back mode</td>
<td>Normal</td>
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<td>Room temp. mod.</td>
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- 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. Optional for Heat Meters
17. Rotary Isolator must be situated outside of the Protective Zone

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Appliance(s): arOTHERM Mono, Hydraulic Station, Heat Ex. Module, Buffer (45/100L)
Control(s): sensoCOMFORT VRC 720
HTG. Circuit(s): 1x UFH(X) - 3rd Party, 1x Cylinder
Domestic Hot Water: 1x Cylinder
-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. Optional for Heat Meters
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Drawn: A.RICE
REV: C
Page 2/3

Appliance(s): aroTHERM Mono, Hydraulic Station, Heat Ex. Module, Buffer (45/100L)
Control(s): sensoCOMFORT VRC 720
HTG. Circuit(s): 1x UFH(X) - 3rd Party, 1x Cylinder

Domestic Hot Water: 1x Cylinder
1. See page 3 for relevant controller system configuration settings.
2. Set VR92 remote address to its zone number - 1
   eg. If VR92 is in zone 3, then remote address must be set to 2.
3. Controls and outdoor sensor can be wired or wireless
7. Optional for Heat Meters
17. Rotary Isolator must be situated outside of the Protective Zone

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Appliance(s): aroTHERM Mono, Hydraulic Station, Heat Ex. Module, Buffer (45/100L)
Control(s): sensoCOMFORT
HTG. Circuit(s): 2x Radiator - Direct
Domestic Hot Water: 1x Cylinder

Drawn: A.RICE
24/10/2022

Page 1/3
1. See page 3 for relevant controller system configuration settings.
2. Set VR92 remote address to its zone number - 1
   eg. If VR92 is in zone 3, then remote address must be set to 2.
3. Controls and outdoor sensor can be wired or wireless
7. Optional for Heat Meters
17. Rotary Isolator must be situated outside of the Protective Zone

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

---

**sensoCOMFORT / VRC 700 System Configuration**

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

---

### Diagram Legend

- Indicates No. of cable cores
- Indicates Cable Junction
- BUS

---

**SensoCOMFORT**

- Controls: sensoCOMFORT
- Appliance(s): aroTHERM Mono, Hydraulic Station, Heat Ex. Module, Buffer (45/100L)
- HTG. Circuit(s): 2x Radiator - Direct, 1x Cylinder

---

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1. See page 3 for relevant controller system configuration settings.
2. Controls and outdoor sensor can be wired or wireless.
3. Link required (not factory fitted).
4. See page 2 for detailed wiring.
5. Optional for Heat Meters
6. Rotary Isolator must be situated outside of the Protective Zone

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A.RICE
24/10/2022

Appliance(s): aroTHERM Mono, Hydraulic Station, Heat Ex. Module, Buffer (45/100L)
Control(s): sensoCOMFORT
HTG. Circuit(s): 1x Radiator - Direct, 1x UFH(X) - 3rd Party,
Domestic Hot Water: 1x Cylinder

Page 1/3
See page 2 for detailed wiring.

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

7. Optional for Heat Meters
17. Rotary Isolator must be situated outside of the Protective Zone
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---

#### sensoCOMFORT / VRC 700 System Configuration

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<table>
<thead>
<tr>
<th>Setting</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Zone 1</strong></td>
<td></td>
</tr>
<tr>
<td>Zone activated:</td>
<td>Yes</td>
</tr>
<tr>
<td>Zone assignment:</td>
<td>Control</td>
</tr>
<tr>
<td><strong>Zone 2</strong></td>
<td></td>
</tr>
<tr>
<td>Zone activated:</td>
<td>Yes</td>
</tr>
<tr>
<td>Zone assignment:</td>
<td>No assignmt</td>
</tr>
<tr>
<td>Domestic hot water</td>
<td></td>
</tr>
<tr>
<td>Cylinder:</td>
<td>Active</td>
</tr>
<tr>
<td>Anti-legio. day:</td>
<td><strong>User preference</strong></td>
</tr>
<tr>
<td>Anti-legio. time:</td>
<td><strong>User preference</strong></td>
</tr>
<tr>
<td>Cylinder charging offset:</td>
<td>15 K</td>
</tr>
<tr>
<td>Cyl. charg. anti-cyl. time:</td>
<td>5 min</td>
</tr>
</tbody>
</table>

**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.: Normal
  - **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

---

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---

**CIRCUIT CONFIGURATION**

- **Domestic Hot Water:** 1x Cylinder
- **HTG. Circuit(s):** 1x Radiator - Direct, 1x UFH(X) - 3rd Party,
- See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
3. Controls and outdoor sensor can be wired or wireless
7. Optional for Heat Meters

17. Rotary isolator must be situated outside of the Protective Zone

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Drawn: A.RICE
24/10/2022

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

HTG. Circuit(s): 1x Radiator - Direct, 1x Cylinder
Domestic Hot Water: 1x Cylinder
- See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
3. Controls and outdoor sensor can be wired or wireless
7. Optional for Heat Meters

- Rotary isolator must be situated outside of the Protective Zone

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---

**sensoCOMFORT / VRC 700 System Configuration**

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### Installation

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<tr>
<th>Setting</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adapt. heat curve</td>
<td>Deactivated</td>
</tr>
<tr>
<td>Hybrid manager</td>
<td>Bivalence pt</td>
</tr>
<tr>
<td>Heating bivalence point</td>
<td>-20°</td>
</tr>
<tr>
<td>DHW bivalence point</td>
<td>-20°</td>
</tr>
<tr>
<td>Alternative point</td>
<td>Off</td>
</tr>
<tr>
<td>ESCO</td>
<td>HP Off</td>
</tr>
<tr>
<td>Back-up boiler</td>
<td>Off</td>
</tr>
<tr>
<td>Conf. ext. input</td>
<td>Bridge, deactv.</td>
</tr>
</tbody>
</table>

### 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
- Domestic Hot Water: 1x Cylinder

---

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- See page 2 for detailed wiring.
- DPDT Relay (not supplied by Vaillant). See page 2 for detailed wiring.
- Mount externally or to fascia
- Optional for Heat Meters

17. Rotary isolator must be situated outside of the Protective Zone
- 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. Optional for Heat Meters

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Appliance(s): aroTHERM Mono, Hydraulic Station, Heat Ex. Module
Control(s): sensoCOMFORT VRC720
HTG. Circuit(s): 1x UFH(X) - 3rd Party, Domestic Hot Water: 1x Cylinder

Drawn: A.RICE
24/10/2022
REV: C
Page 2 / 3
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### sensoCOMFORT / VRC 700 System Configuration

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<table>
<thead>
<tr>
<th>Setting</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domestic hot water</td>
<td></td>
</tr>
<tr>
<td>Cylinder</td>
<td>Active</td>
</tr>
<tr>
<td>Anti-lego. day</td>
<td><strong>User preference</strong></td>
</tr>
<tr>
<td>Anti-lego. time</td>
<td><strong>User preference</strong></td>
</tr>
<tr>
<td>Cylinder charging offset</td>
<td>15 K</td>
</tr>
<tr>
<td>Cyl. charg. anti-cyl. time</td>
<td>5 min</td>
</tr>
</tbody>
</table>

---

### Installation

- Adapt. heat curve: Deactivated
- Hybrid manager: Bivalence pt -20°
- Heating bivalence point: -20°
- DHW bivalence point: -20°
- Alternative point: Off
- ESCO: Heating off
- Back-up boiler: Off

### Basic system diagram config.

Basic system diagram code: 10

### HP control module configuration

- MO 2: Circulation pump

### Circuit1

- 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

### Zone1

- Zone activated: Yes
- Zone assignment: No assignmt

---

### HTG. Circuit(s)

- 1x UFH(X) - 3rd Party

### Domestic Hot Water

- 1x Cylinder
1. See page 3 for relevant controller system configuration settings.
2. Set VR92 remote address to its zone number - 1 eg. If VR92 is in zone 3, then remote address must be set to 2.
3. Controls and outdoor sensor can be wired or wireless
7. Optional for Heat Meters
17. Rotary Isolator must be situated outside of the Protective Zone

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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
- See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
2. Set VR92 remote address to its zone number - 1
eg. If VR92 is in zone 3, then remote address must be set to 2.
3. Controls and outdoor sensor can be wired or wireless
7. Optional for Heat Meters
17. Rotary Isolator must be situated outside of the Protective Zone

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0. See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
2. Controls and outdoor sensor can be wired or wireless
3. Link required (not factory fitted).
4. Optional for Heat Meters
5. Rotary Isolator must be situated outside of the Protective Zone

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A.RICE
24/10/2022

Appliance(s): arOTHERM Mono, Hydraulic Station, Heat Ex. Module
Control(s): sensoCOMFORT
HTG. Circuit(s): 1x Radiator - Direct, 1x UFH - 3rd Party,
Domestic Hot Water: 1x Cylinder
- See page 2 for detailed wiring.
- See page 3 for relevant controller system configuration settings.
- Controls and outdoor sensor can be wired or wireless
- Link required (not factory fitted).

1. Optional for Heat Meters
17. Rotary Isolator must be situated outside of the Protective Zone

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### sensoCOMFORT / VRC 700 System Configuration

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<td>Alternative point</td>
<td>Off</td>
</tr>
<tr>
<td>ESCO</td>
<td>HP Off</td>
</tr>
<tr>
<td>Back-up boiler</td>
<td>Off</td>
</tr>
<tr>
<td>Conf. ext. input</td>
<td>Open, deactiv.</td>
</tr>
<tr>
<td><strong>Basic system diagram config.</strong></td>
<td></td>
</tr>
<tr>
<td>Basic system diagram code</td>
<td>10</td>
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<td><strong>HP control module configuration</strong></td>
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<td>MO 2 Circulation pump</td>
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<tr>
<td><strong>Circuit 1</strong></td>
<td></td>
</tr>
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<td>Circuit type</td>
<td>Heating</td>
</tr>
<tr>
<td>OT switch-off threshold</td>
<td>30°</td>
</tr>
<tr>
<td>Heat curve</td>
<td><strong>Site specific</strong></td>
</tr>
<tr>
<td>Min. target flow temperature</td>
<td>15°</td>
</tr>
<tr>
<td>Max. target flow temperature</td>
<td>45°</td>
</tr>
<tr>
<td>Set-back mode</td>
<td>Normal</td>
</tr>
<tr>
<td><strong>Room temp. mod.</strong></td>
<td>Expanded</td>
</tr>
<tr>
<td><strong>Circuit 2</strong></td>
<td></td>
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<tr>
<td>Circuit type</td>
<td>Heating</td>
</tr>
<tr>
<td>OT switch-off threshold</td>
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<td>Heat curve</td>
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<tr>
<td>Max. target flow temperature</td>
<td>45°</td>
</tr>
<tr>
<td>Set-back mode</td>
<td>Eco</td>
</tr>
<tr>
<td><strong>Room temp. mod.</strong></td>
<td>Inactive</td>
</tr>
</tbody>
</table>

**Domestic hot water**

- Cylinder: Active
- Anti-legio. day: **User preference**
- Anti-legio. time: **User preference**
- Cylinder charging offset: 15 K
- Cyl. charg. anti-cyl. time: 5 min

---

### Diagram Annotations

- ** NOTES:**
  - Indicates No. of cable cores
  - Indicates Cable Junction
  - Indicates cable Junction
  - Indicates Cable Junction

---

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**Drawn:** A.RICE  
**Appliance(s):** arcTHERM Mono, Hydraulic Station, Heat Ex. Module

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

**Drawn:** 24/10/2022  
**Appliance(s):** arcTHERM Mono, Hydraulic Station, Heat Ex. Module

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

**Drawn:** 24/10/2022  
**Appliance(s):** arcTHERM Mono, Hydraulic Station, Heat Ex. Module

**Control(s):** sensoCOMFORT  
**HTG. Circuit(s):** 1x Radiator - Direct, 1x UFH - 3rd Party, 1x Cylinder
- See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
3. Controls and outdoor sensor can be wired or wireless
7. Optional for Heat Meters

Rotary isolator must be situated outside of the Protective Zone
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1. See page 3 for relevant controller system configuration settings.
2. Controls and outdoor sensor can be wired or wireless.
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17. Rotary isolator must be situated outside of the Protective Zone

Appliance(s): aroTHERM Mono,
Control(s): sensoCOMFORT
HTG. Circuit(s): 1x Radiator - Direct, 1x Cylinder
Domestic Hot Water: 1x Cylinder

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Drawn: A. FLINN
24/10/2022 REV: C
Page 2/3
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sensoCOMFORT / VRC 700 System Configuration

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</tr>
<tr>
<td>Heating bivalence point</td>
<td>-20°</td>
</tr>
<tr>
<td>DHW bivalence point</td>
<td>-20°</td>
</tr>
<tr>
<td>Alternative point</td>
<td>Off</td>
</tr>
<tr>
<td>ESCO</td>
<td>HP Off</td>
</tr>
<tr>
<td>Back-up boiler</td>
<td>Off</td>
</tr>
<tr>
<td>Basic system diag config.</td>
<td></td>
</tr>
<tr>
<td>Basic system diag code</td>
<td>8</td>
</tr>
<tr>
<td>HP control module config.</td>
<td></td>
</tr>
<tr>
<td>MO 2</td>
<td>Circulation pump</td>
</tr>
<tr>
<td>Circuit 1</td>
<td></td>
</tr>
<tr>
<td>Circuit type</td>
<td>Heating</td>
</tr>
<tr>
<td>OT switch-off threshold</td>
<td>30°</td>
</tr>
<tr>
<td>Heat curve</td>
<td>**Site specific</td>
</tr>
<tr>
<td>Min. target flow temp.</td>
<td>15°</td>
</tr>
<tr>
<td>Max. target flow temp.</td>
<td>45°</td>
</tr>
<tr>
<td>Set-back mode</td>
<td>Normal</td>
</tr>
<tr>
<td>Room temp. mod.</td>
<td>Expanded</td>
</tr>
<tr>
<td>Zone</td>
<td></td>
</tr>
<tr>
<td>Zone activated</td>
<td>Yes</td>
</tr>
<tr>
<td>Zone assignment</td>
<td>Control</td>
</tr>
<tr>
<td>Domestic hot water</td>
<td></td>
</tr>
<tr>
<td>Cylinder</td>
<td>Active</td>
</tr>
<tr>
<td>Anti-lego. day</td>
<td>**User preference</td>
</tr>
<tr>
<td>Anti-lego. time</td>
<td>**User preference</td>
</tr>
<tr>
<td>Cylinder charging offset</td>
<td>15 K</td>
</tr>
<tr>
<td>Cyl. charg. anti-cycl.</td>
<td>5 min</td>
</tr>
</tbody>
</table>

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

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Drawn: A.Rice
Appliance(s): arcTHERM Mono,
Control(s): sensoCOMFORT VRC 720
HTG. Circuit(s): 1x UFH(X) - 3rd Party, 1x Cylinder
Domestic Hot Water: 1x Cylinder
24/10/2022 REV: F
Page 1/3
- See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
5. DPDT Relay (not supplied by Vaillant). See page 2 for detailed wiring.
7. Optional for Heat Meters

17. Rotary Isolator must be situated outside of the Protective Zone.

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A.Rice 24/10/2022

Appliance(s): aroTHERM Mono,
Control(s): sensoCOMFORT VRC 720
HTG. Circuit(s): 1x UFH(X) - 3rd Party, 1x Cylinder.

Domestic Hot Water: 1x Cylinder.
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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>
<thead>
<tr>
<th>Setting</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adapt. heat curve</td>
<td>Deactivated</td>
</tr>
<tr>
<td>Hybrid manager</td>
<td>Bivalence pt</td>
</tr>
<tr>
<td>Heating bivalence point</td>
<td>-20°</td>
</tr>
<tr>
<td>DHW bivalence point</td>
<td>-20°</td>
</tr>
<tr>
<td>Alternative point</td>
<td>Off</td>
</tr>
<tr>
<td>ESCO</td>
<td>Heating off</td>
</tr>
<tr>
<td>Back-up boiler</td>
<td>Off</td>
</tr>
<tr>
<td>Actuation reversal</td>
<td>On</td>
</tr>
</tbody>
</table>

Basic system diagram config.

Basic system diagram code: 8

HP control module configuration

Circuit 1

Circuit type: Heating
OT switch-off threshold: 30°
Heat curve: **Site specific
Min. target flow temperature: 15°
Max. target flow temperature: 45°
Set-back mode: Eco
Room temp. mod.: Inactive

Zones

Zone 1

Zone activated: Yes
Zone assignment: Control

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

Installation

Adapt. heat curve: Deactivated
Hybrid manager: Bivalence pt
Heat curve: **Site specific
Min. target flow temperature: 15°
Max. target flow temperature: 45°
Set-back mode: Eco
Room temp. mod.: Inactive

Adapted heat curve: Deactivated
Hybrid manager: Bivalence pt
Heat curve: **Site specific
Min. target flow temperature: 15°
Max. target flow temperature: 45°
Set-back mode: Eco
Room temp. mod.: Inactive
- 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
e.g. If VR92 is in zone 3, then remote address must be set to 2.
3. Controls and outdoor sensor can be wired or wireless
7. Optional for Heat Meters
17. Rotary Isolator must be situated outside of the Protective Zone

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Appliance(s): aroTHERM Mono,
Control(s): sensoCOMFORT, VR 92
HTG. Circuit(s): 2x Radiator - Direct,
Domestic Hot Water: 1x Cylinder
1. See page 3 for relevant controller system configuration settings.
2. Set VR92 remote address to its zone number - 1
   eg. If VR92 is in zone 3, then remote address must be set to 2.
3. Controls and outdoor sensor can be wired or wireless
7. Optional for Heat Meters
17. Rotary Isolator must be situated outside of the Protective Zone

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### sensoCOMFORT / VRC 700 System Configuration

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<tr>
<th>Setting</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Installation</strong></td>
<td></td>
</tr>
<tr>
<td>Adapt. heat curve</td>
<td>Deactivated</td>
</tr>
<tr>
<td>Hybrid manager</td>
<td></td>
</tr>
<tr>
<td>Heating bivalence pt</td>
<td></td>
</tr>
<tr>
<td>DWV bivalence pt</td>
<td></td>
</tr>
<tr>
<td>Alternative point</td>
<td>Off</td>
</tr>
<tr>
<td>ESCO: HP Off</td>
<td></td>
</tr>
<tr>
<td>Back-up boiler</td>
<td>Off</td>
</tr>
<tr>
<td>Conf. ext. input</td>
<td>Bridge, deact.</td>
</tr>
<tr>
<td><strong>Basic system diag.</strong></td>
<td></td>
</tr>
<tr>
<td>Basic system diag code</td>
<td>8</td>
</tr>
<tr>
<td>FM5 configuration</td>
<td>3</td>
</tr>
<tr>
<td>FM5 MO</td>
<td>Not working</td>
</tr>
<tr>
<td><strong>HP control module c.</strong></td>
<td></td>
</tr>
<tr>
<td>MO 2: Circulation pump</td>
<td></td>
</tr>
<tr>
<td><strong>Circuit 1</strong></td>
<td></td>
</tr>
<tr>
<td>Circuit type</td>
<td>Heating</td>
</tr>
<tr>
<td>OT switch-off threshold</td>
<td>30°</td>
</tr>
<tr>
<td>Heat curve</td>
<td><strong>Site specific</strong></td>
</tr>
<tr>
<td>Min. target flow temp</td>
<td>15°</td>
</tr>
<tr>
<td>Max. target flow temp</td>
<td>45°</td>
</tr>
<tr>
<td>Set-back mode</td>
<td>Normal</td>
</tr>
<tr>
<td>Room temp. mod.</td>
<td>Expanded</td>
</tr>
<tr>
<td><strong>Zone 1</strong></td>
<td></td>
</tr>
<tr>
<td>Zone activated</td>
<td>Yes</td>
</tr>
<tr>
<td>Zone assignment</td>
<td>Control</td>
</tr>
<tr>
<td><strong>Zone 2</strong></td>
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<tr>
<td>Zone activated</td>
<td>Yes</td>
</tr>
<tr>
<td>Zone assignment</td>
<td>Rem. contr. 1</td>
</tr>
<tr>
<td><strong>Domestic hot water</strong></td>
<td></td>
</tr>
<tr>
<td>Cylinder</td>
<td>Active</td>
</tr>
<tr>
<td>Anti-legio. day</td>
<td><strong>User preference</strong></td>
</tr>
<tr>
<td>Anti-legio. time</td>
<td><strong>User preference</strong></td>
</tr>
<tr>
<td>Cylinder charging offset</td>
<td>15 K</td>
</tr>
<tr>
<td>Cyl. charg. anti-cyd. time</td>
<td>5 min</td>
</tr>
</tbody>
</table>

---

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**Appliance(s):** aroTHERM Mono,

**Control(s):** sensoCOMFORT, VR 92

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

**Domestic Hot Water:** 1x Cylinder

**Drawn:** A. FLINN

**24/10/2022**
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).
5. DPDT Relay (not supplied by Vaillant). See page 2 for detailed wiring.
7. Optional for Heat Meters
17. Rotary Isolator must be situated outside of the Protective Zone

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

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

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Drawn: A. Rice
Appliance(s): aroTHERM Mono,
Control(s): sensoCOMFORT
24/10/2022 REV: F
HTG. Circuit(s): 1x Radiator - Direct, 1x UFH(X) - 3rd Party,
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.
4. Link required (not factory fitted).
5. DPDT Relay (not supplied by Vaillant). See page 2 for detailed wiring.
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Drawn: A. Rice
Appliance(s): aroTHERM Mono
Control(s): sensoCOMFORT
HTG. Circuit(s): 1x Radiator - Direct, 1x UFH(X) - 3rd Party,
Domestic Hot Water: 1x Cylinder
Page 2/3
### 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
--- | ---
Adapt. heat curve | Deactivated
Hybrid manager | Bivalence pt
Heating bivalence point | -20°
DHW bivalence point | -20°
Alternative point | Off
ESCO | HP Off
Back-up boiler | Off
Conf. ext. input | Open, deactiv.

#### Basic system diagram config.

- Basic system diagram code: 8
- FM5 configuration: 3
- FM5 MO: Not working
- HP control module configuration
  - MO 2: Circulation pump

#### Circuit 1

- Circuit type: Heating
- OT switch-off threshold: 30°
- Heat curve: **Site specific**
- Min. target flow temperature: 15°
- Max. target flow temperature: 45°
- Set-back mode: Eco
- Room temp. mod.: Inactive

#### Domestic hot water

- Cylinder: Active
- Anti-legio. day: **User preference**
- Anti-legio. time: **User preference**
- Cylinder charging offset: 15 K
- Cyl. charg. anti-cyd. time: 5 min

---

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---

**Drawn:** A. Rice
**Appliance(s):** aroTHERM Mono,
**Control(s):** sensoCOMFORT
**HTG. Circuit(s):** 1x Radiator - Direct, 1x UFH(X) - 3rd Party
- See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
3. Controls and outdoor sensor can be wired or wireless
7. Optional for Heat Meters

17. Rotary isolator must be situated outside of the Protective Zone
- See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
3. Controls and outdoor sensor can be wired or wireless
7. Optional for Heat Meters

17. Rotary isolator must be situated outside of the Protective Zone

---

**Appliance(s):** aroTHERM Mono, uniTOWER, Buffer (45/100L)
**Control(s):** sensoCOMFORT
**HTG. Circuit(s):** 1x Radiator - Direct, Domestic Hot Water: uniTOWER

---

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---

Drawn: A.RICE
Appliance(s): aroTHERM Mono, uniTOWER, Buffer (45/100L)
Control(s): sensoCOMFORT
HTG. Circuit(s): 1x Radiator - Direct, Domestic Hot Water: uniTOWER

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24/10/2022
Rev: C
Page 2/3
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### sensoCOMFORT / VRC 700 System Configuration

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<tr>
<th>Setting</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Adapt. heat curve</td>
<td>Deactivated</td>
</tr>
<tr>
<td>Hybrid manager</td>
<td>Bivalence pt</td>
</tr>
<tr>
<td>Heating bivalence point</td>
<td>-20°C</td>
</tr>
<tr>
<td>DHW bivalence point</td>
<td>-20°C</td>
</tr>
<tr>
<td>Alternative point</td>
<td>Off</td>
</tr>
<tr>
<td>ESCO</td>
<td>HP Off</td>
</tr>
<tr>
<td>Back-up boiler</td>
<td>Off</td>
</tr>
<tr>
<td>Basic system diagram config.</td>
<td></td>
</tr>
<tr>
<td>HP control module config.</td>
<td></td>
</tr>
<tr>
<td>MO 2</td>
<td>Not connected</td>
</tr>
<tr>
<td>Circuit</td>
<td></td>
</tr>
<tr>
<td>Circuit type</td>
<td>Heating</td>
</tr>
<tr>
<td>OT switch-off threshold</td>
<td>30°C</td>
</tr>
<tr>
<td>Heat curve</td>
<td>**Site specific</td>
</tr>
<tr>
<td>Min. target flow temperature</td>
<td>15°C</td>
</tr>
<tr>
<td>Max. target flow temperature</td>
<td>45°C</td>
</tr>
<tr>
<td>Set-back mode</td>
<td>Normal</td>
</tr>
<tr>
<td>Room temp. mod.</td>
<td>Expanded</td>
</tr>
<tr>
<td>Zone</td>
<td></td>
</tr>
<tr>
<td>Zone activated</td>
<td>Yes</td>
</tr>
<tr>
<td>Zone assignment</td>
<td>Control</td>
</tr>
<tr>
<td>Domestic hot water</td>
<td></td>
</tr>
<tr>
<td>Cylinder</td>
<td>Active</td>
</tr>
<tr>
<td>Anti-legio. day</td>
<td>**User preference</td>
</tr>
<tr>
<td>Anti-legio. time</td>
<td>**User preference</td>
</tr>
<tr>
<td>Cylinder charging offset</td>
<td>15 K</td>
</tr>
<tr>
<td>Cyl. charg. anti-cycl. time</td>
<td>5 min</td>
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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.
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. Optional for Heat Meters
17. Rotary Isolator must be situated outside of the Protective Zone

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Drawn: A.RICE
24/10/2022
Control(s): sensoCOMFORT VRC720
Appliance(s): aROTHERM Mono, uniTOWER, Buffer (45/100L)
HTG. Circuit(s): 1x UFH(X) - 3rd Party, .
Domestic Hot Water: uniTOWER
Page 1/3
1. See page 3 for relevant controller system configuration settings.
2. DPDT Relay (not supplied by Vaillant). See page 2 for detailed wiring.
3. Mount externally or to fascia.
4. Optional for Heat Meters
5. Rotary Isolator must be situated outside of the Protective Zone
6. See page 2 for detailed wiring.
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Appliance(s):
aroTHERM Mono, uniTOWER, Buffer (45/100L)

Control(s):
sensoCOMFORT VRC720

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

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

---

### sensoCOMFORT / VRC 720 System Configuration

<table>
<thead>
<tr>
<th>Setting</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Domestic hot water</strong></td>
<td></td>
</tr>
<tr>
<td>Cylinder:</td>
<td>Active</td>
</tr>
<tr>
<td>Anti-legio. day:</td>
<td><strong>User preference</strong></td>
</tr>
<tr>
<td>Anti-legio. time:</td>
<td><strong>User preference</strong></td>
</tr>
<tr>
<td>Cylinder charging offset:</td>
<td>15 K</td>
</tr>
<tr>
<td>Cyl. charg. anti-cyd. time:</td>
<td>5 min</td>
</tr>
</tbody>
</table>

---

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---

**Appliance(s):** aroTHERM Mono, uniTOWER, Buffer (45/100L)  
**Control(s):** sensoCOMFORT VRC720  
**HTG. Circuit(s):** 1x UFH(X) - 3rd Party,  
**Domestic Hot Water:** uniTOWER
- See page 2 for detailed wiring.
1. See page 3 for relevant controller system configuration settings.
2. Set VR92 remote address to its zone number - 1
   eg. If VR92 is in zone 3, then remote address must be set to 2.
3. Controls and outdoor sensor can be wired or wireless
7. Optional for Heat Meters
17. Rotary Isolator must be situated outside of the Protective Zone

---

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Drawn: A.RICE  
Appliance(s): arOTHERM Mono, uniTOWER, Buffer (45/100L)  
Control(s): sensoCOMFORT, VR 92  
HTG. Circuit(s): 2x Radiator - Direct, Domest Hot Water: uniTOWER
1. See page 3 for relevant controller system configuration settings.
2. Set VR92 remote address to its zone number - 1 eg. If VR92 is in zone 3, then remote address must be set to 2.
3. Controls and outdoor sensor can be wired or wireless
7. Optional for Heat Meters
17. Rotary Isolator must be situated outside of the Protective Zone

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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.

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<tr>
<th>Setting</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Adapt. heat curve</td>
<td>Deactivated</td>
</tr>
<tr>
<td>Hybrid manager</td>
<td>Bivalence pt</td>
</tr>
<tr>
<td>Heating bivalence point:</td>
<td>-20°</td>
</tr>
<tr>
<td>DHW bivalence point:</td>
<td>-20°</td>
</tr>
<tr>
<td>Alternative point:</td>
<td>Off</td>
</tr>
<tr>
<td>ESCO: HP Off</td>
<td></td>
</tr>
<tr>
<td>Back-up boiler:</td>
<td>Off</td>
</tr>
<tr>
<td>Conf. ext. input:</td>
<td>Bridge, deactiv.</td>
</tr>
<tr>
<td>Basic system diagram config.</td>
<td></td>
</tr>
<tr>
<td>Basic system code:</td>
<td>10</td>
</tr>
<tr>
<td>FM5 configuration:</td>
<td></td>
</tr>
<tr>
<td>FM5 MO</td>
<td>Not working</td>
</tr>
<tr>
<td>HP control module configuration</td>
<td></td>
</tr>
<tr>
<td>MO 2</td>
<td>Not connected</td>
</tr>
<tr>
<td>Circuit type:</td>
<td>Heating</td>
</tr>
<tr>
<td>OT switch-off threshold:</td>
<td>30°</td>
</tr>
<tr>
<td>Heat curve:</td>
<td>&quot;Site specific&quot;</td>
</tr>
<tr>
<td>Min. target flow temperature:</td>
<td>15°</td>
</tr>
<tr>
<td>Max. target flow temperature:</td>
<td>45°</td>
</tr>
<tr>
<td>Set-back mode:</td>
<td>Normal</td>
</tr>
<tr>
<td>Room temp. mod.:</td>
<td>Expanded</td>
</tr>
<tr>
<td>Zone 1</td>
<td></td>
</tr>
<tr>
<td>Zone activated:</td>
<td>Yes</td>
</tr>
<tr>
<td>Zone assignment:</td>
<td>Control</td>
</tr>
<tr>
<td>Zone 2</td>
<td></td>
</tr>
<tr>
<td>Zone activated:</td>
<td>Yes</td>
</tr>
<tr>
<td>Zone assignment:</td>
<td>Rem. contr. 1</td>
</tr>
<tr>
<td>Domestic hot water</td>
<td></td>
</tr>
<tr>
<td>Cylinder:</td>
<td>Active</td>
</tr>
<tr>
<td>Anti-legio. day:</td>
<td>&quot;User preference&quot;</td>
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- See page 2 for detailed wiring.

1. See page 3 for relevant controller system configuration settings.
2. Controls and outdoor sensor can be wired or wireless.
3. Link required (not factory fitted).
4. Link optional for Heat Meters.
5. Rotary Isolator must be situated outside of the Protective Zone.

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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.

## Circuit 2
- **Setting**
- **Value**
  - 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

---

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---

### Installation
- **Setting**
- **Value**
  - Adapt. heat curve: Deactivated
  - Hybrid manager: Bivalence pt
  - Heating bivalence point: -20°
  - DHW bivalence point: -20°
  - Alternative point: Off

---

### Basic system diagram config.
- **Basic system code:** 10
- **FM5 configuration:** Not working
- **FM5 MO:** Not working

---

### HP control module configuration
- **MO 2:** Not connected

---

### Electric Meter
- **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 +**
- **Indicates Cable Junction**
- **Indicates No. of cable cores**

---

### Drawn: A.RICE
- **Appliance(s):** arcoTHERM Mono, uniTOWER, Buffer (45/100L)
- **Control(s):** sensoCOMFORT
- **HTG. Circuit(s):** 1x Radiator - Direct, 1x UFH - 3rd Party, Domestic Hot Water: uniTOWER

---

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<td><strong>30°</strong></td>
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<tr>
<td>Heat curve</td>
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<tr>
<td>Set-back mode</td>
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</tr>
<tr>
<td>Room temp. mod.</td>
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</tr>
<tr>
<td>Zone activated</td>
<td>Yes</td>
</tr>
</tbody>
</table>

---

### Drawn: A.RICE
- **REV:** 24/10/2022
- **DATE:** B
- **DESCRIPTION:**
- **ZONE:**

---

### Diagram Elements
- **BUS**
- **Indicates Cable Junction**
- **Indicates No. of cable cores**
Sales Support:
Telephone: 0345 602 0262

Technical Enquiries: Telephone:
0330 100 3540
Email:aftersales-uk@vaillant.co.uk

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0345 602 2922

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Email: training@vaillant.co.uk

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