

Yutaki Cascade installation 1/3 – schematic n°1

Common heating / cooling household in combination with common DHW production

Type of application

In the schematic below, the production of DHW and space heating/cooling is not simultaneous. When the cascade installation is generating water for the DHW tank, production of hot or chilled water for space heating or cooling application is stopped until DHW production stops.

Additional information:

In this scenario, Yutaki cascade controller manage both DHW tank and space heating/cooling for the household.

Circuit 1 and circuit 2 management is performed by the Yutaki cascade controller and they have wired / wireless / no thermostats or any combination option.

Installer shall determine proper usage of collector systems.

Configuration in Yutaki cascade controller side

Circuit 1: Enable at gradient/point/fixed temperature (thermostat option) (direct circuit)

Circuit 2: Enable at gradient/point/fixed temperature (thermostat option) (mixing circuit)

DHW: Enabled

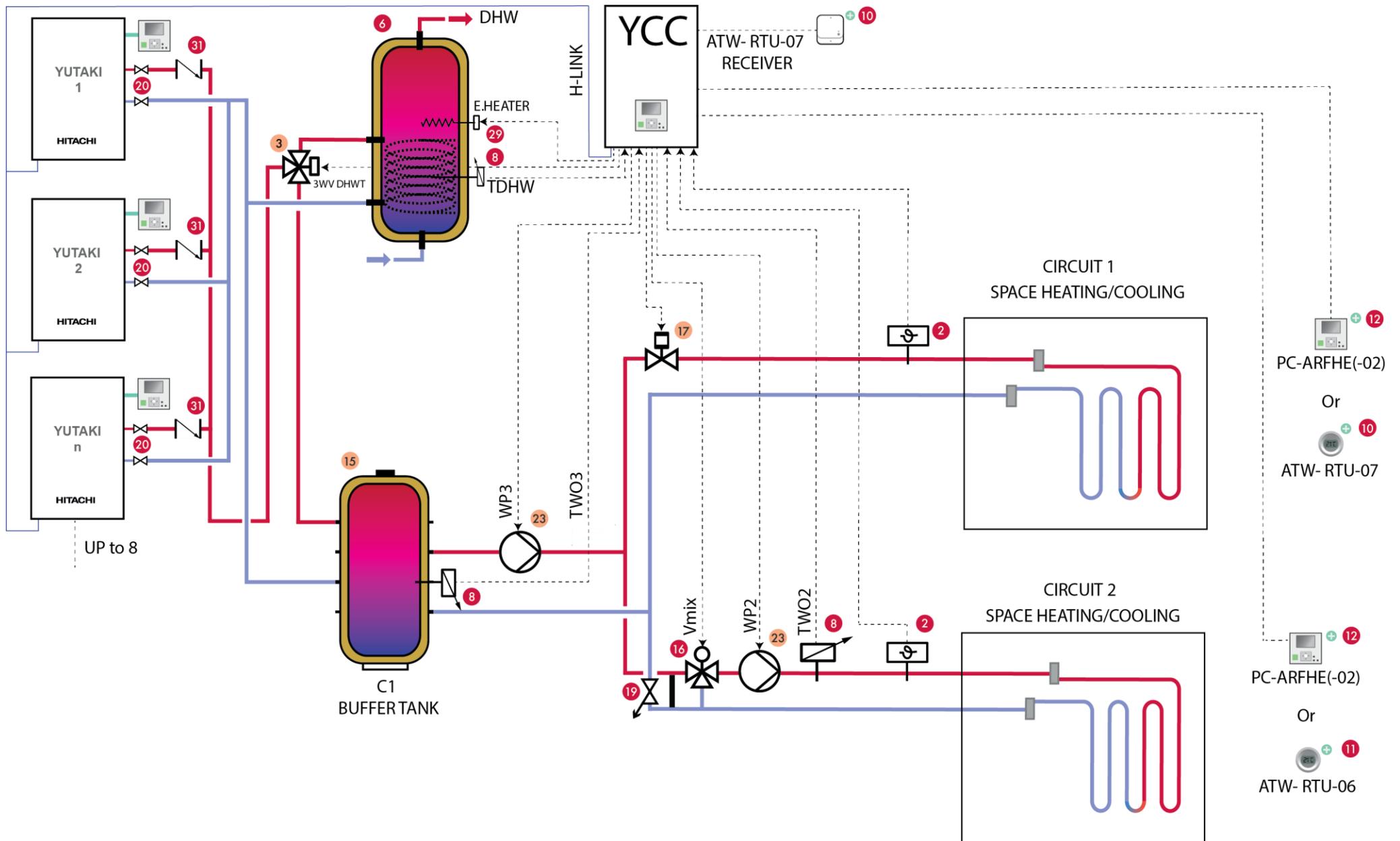
Cascade configuration menu (example in case that 6 modules are connected)

| | Module 1 | Module 2 | Module 3 | Module 4 | Module 5 | Module 6 | Module 7 | Module 8 |
|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Status | Enabled | Enabled | Enabled | Enabled | Enabled | Enabled | Disabled | Disabled |
| Refrigerant cycle address | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Indoor unit address | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Individual DHW | - | - | - | - | - | - | - | - |
| Status | Disabled |
| Type | - | - | - | - | - | - | - | - |

Configuration in Yutaki slave side

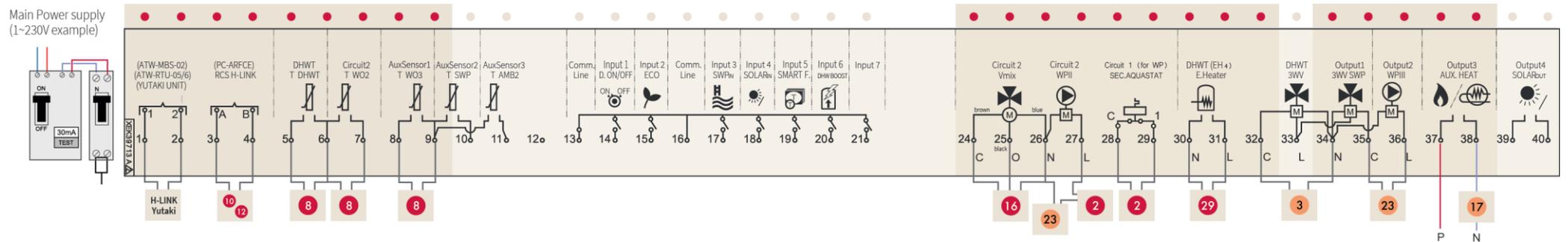
- 1. Central control:** Cascade mode – enabled
- 2. Circuit 1:** Enabled at fixed setting temperature (without room thermostat)
- 3. Circuit 2:** Disabled
- 4. DHW:** Disabled
- 5. Additional configuration:**
 - a. Each unit need to assign refrigerant address (0/1/2/3/4/5/6/7) in accordance with Yutaki Cascade Controller modules configuration
 - b. The water pump in each slave unit can be set to Standard (continuous operation) or Economic mode (operation only in case there is operation demand from the Cascade Controller or if the slave unit has its own tank and is in demand ON conditions)

Yutaki Cascade installation 2/3 – schematic n°1

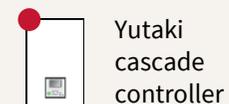
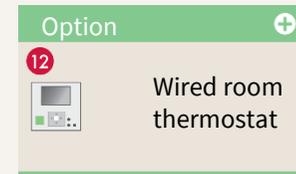
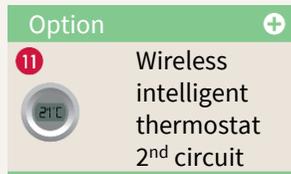
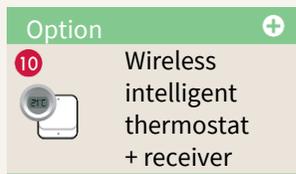
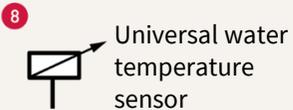
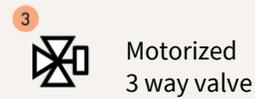
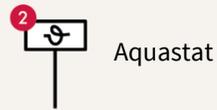
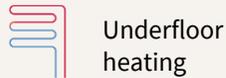
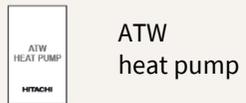


Yutaki Cascade installation 3/3 – schematic n°1

Yutaki cascade controller terminal board



Legends



- Hitachi accessories
- Field supply accessories