



# INOVA SYSTEM ACP HEAT PUMP

## LEGEND

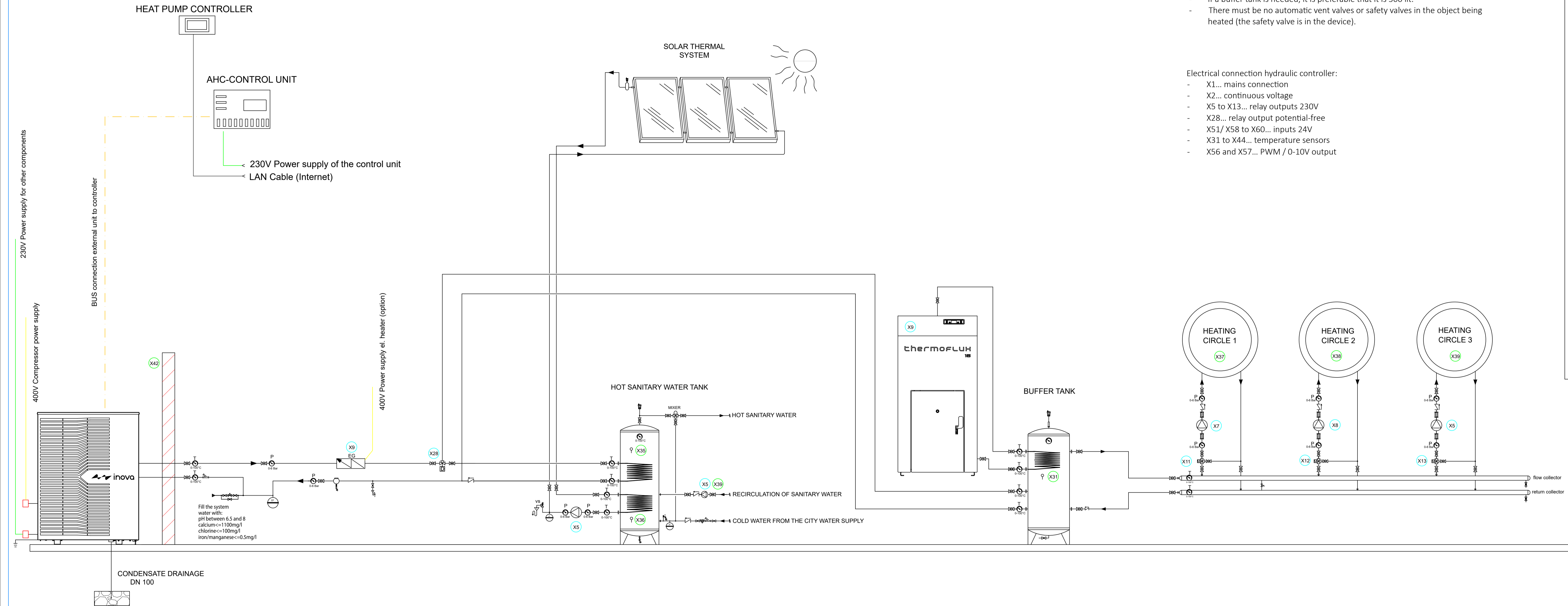
⊕	Sensor
R	Relay
ST	Room thermostat
T	Thermometer
P	Pressure gauge
⊗	Ball valve
↗	Non-return (check) valve
⊥	Water filter
⊙	Circulation pump
⊗	Safety valve
⊥	Discharge
⊕	Expansion vessel
⊗	System filling valve
⊗	Manual air vent valve
⊗	Automatic air separator
⊗	Magnetic dirt catcher
⊗	Three-way reversing valve with a reversing time of up to 15 sec.
⊗	Rubber compensator
⊗	EM mixing valve
⊗	Overflow valve
⊗	Water pressure regulator
⊗	Thermostatic mixing valve
⊗	Electric heater

### Guidelines:

- Minimum flow through the heating circuit must be guaranteed at all times.
- The surface of the coil at the DHW tank should be approx. 0.4 m<sup>2</sup>/kW, DN25.
- It is desirable to provide a hot sanitary water tank for PTV of 300 liters.
- If a buffer tank is needed, it is preferable that it is 300 lit.
- There must be no automatic vent valves or safety valves in the object being heated (the safety valve is in the device).

### Electrical connection hydraulic controller:

- X1... mains connection
- X2... continuous voltage
- X5 to X13... relay outputs 230V
- X28... relay output potential-free
- X51/ X58 to X60... inputs 24V
- X31 to X44... temperature sensors
- X56 and X57... PWM / 0-10V output



### NOTES:

- ALL COMPONENTS WHICH ARE NOT MARKED WITH THE INOVA ABBREVIATION ARE PURCHASED FROM THIRD PARTIES
- THIS SYSTEM EXAMPLE MUST BE CONSIDERED AS A PRINCIPAL SCHEME WITHOUT ALL REQUIRED ELEMENTS
- FOR THE EXECUTION PROJECT, CONTACT THE LICENSED PROJECT STUDIO

	Date	Name and surname	Signature	
Drawing by:				
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Approved by:				
Scale:				Starting material: Processing: Code: AKZ: Link to: Designation of the drawing:
Tolerances measured according to ISO 2768-1m				