THE TEST RIG OF THE EXPERIMENT
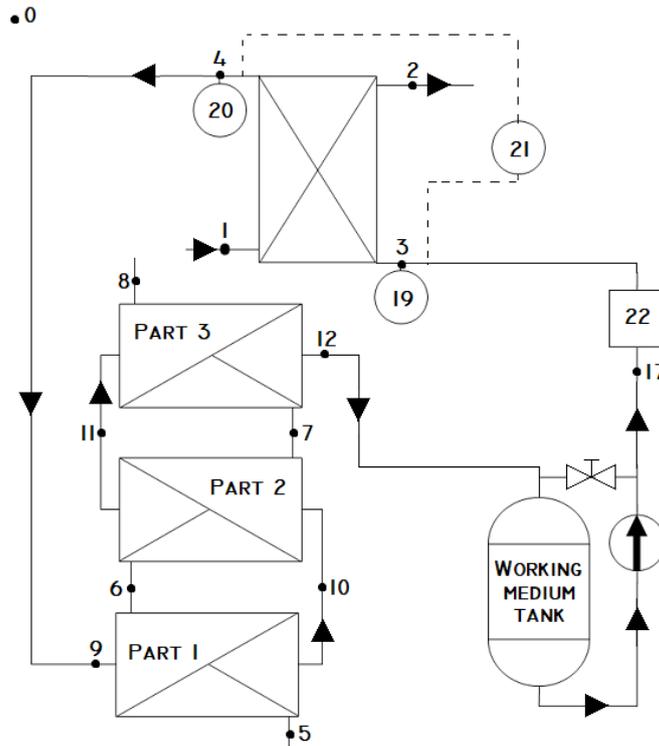
THE PARAMETERS MEASURED DURING EXPERIMENT

Point	Column name [Unit]	Description
0	T_Ambient [°C]	Ambient temperature
1	Evaporator_Hot_IN [°C]	Inlet temperature of the heating water in the evaporator
2	Evaporator_Hot_OUT [°C]	Outlet temperature of the heating water in the evaporator
3	Evaporator_Cold_IN [°C]	Inlet temperature of the working medium in the evaporator
4	Evaporator_Cold_OUT [°C]	Outlet temperature of the working medium in the evaporator
5	Condenser_Cold_IN [°C]	Inlet temperature of the cooling water in the condenser
6	Condenser_Cold_1-2 [°C]	Temperature of the cooling water in the condenser after part 1
7	Condenser_Cold_2-3 [°C]	Temperature of the cooling water in the condenser after part 2
8	Condenser_Cold_OUT [°C]	Outlet temperature of the cooling water in the condenser
9	Condenser_Hot_IN [°C]	Inlet temperature of the working medium in the condenser
10	Condenser_Hot_1-2 [°C]	Temperature of the working medium in the condenser after part 1
11	Condenser_Hot_2-3 [°C]	Temperature of the working medium in the condenser after part 2
12	Condenser_Hot_OUT [°C]	Outlet temperature of the working medium in the condenser
17	T_FlowMeter_IN [°C]	Temperature before the main (working medium) flow meter
18	T_Preheater_IN [°C]	Temperature before the second (preheater heating water) flow meter
19	P_IN [kPa]	Inlet pressure (absolute) of the working fluid in the evaporator
20	P_OUT [kPa]	Outlet pressure (absolute) of the working fluid in the evaporator
21	P_System [kPa]	Pressure difference of the working fluid in the evaporator
22	M_Evaporator_IN [l/min]	Volumetric flow rate of the working medium in the evaporator
23	M_Preheater_IN [l/min]	Volumetric flow rate of the heating water in the preheater
22	M_Evaporator_IN [g/s]	Mass flow rate of the working medium in the evaporator (calculations)
23	M_Preheater_IN [g/s]	Mass flow rate of the heating water in the preheater (calculations)
X	Q_Evaporator_Hot [W]	Heat flow rate of the heating water in the evaporator (calculations)
X	Q_Condenser_Cold [W]	Heat flow rate of the cooling water in the condenser total (calculations)
X	Q_Condenser_Cold-1 [W]	Heat flow rate of the cooling water in the condenser part 1 (calculations)
X	Q_Condenser_Cold-2 [W]	Heat flow rate of the cooling water in the condenser part 2 (calculations)
X	Q_Condenser_Cold-3 [W]	Heat flow rate of the cooling water in the condenser part 3 (calculations)
X	Q_Preheater_Hot [W]	Heat flow rate of the heating water in the preheater (calculations)

THE PARAMETERS OF THE EVAPORATOR GEOMETRY
AND THE EXPERIMENT CONDITIONS

Column name [Unit]	Description
Geometry	Type of the geometry (minichannel)
Manifold	Shape of the collective/distributive manifold
Working fluid	Name of the working fluid
Depth [µm]	Depth of the geometry (minichannel)
Hydraulic diameter [µm]	Hydraulic diameter of the geometry (minichannel)
Cold thermostat temperature [°C]	Cooling water temperature (condenser) set on the constant temperature bath unit
Hot thermostat temperature [°C]	Heating water temperature (evaporator) set on the constant temperature bath unit

ATTENTION
THE COLUMNS LISTED BELOW SHOULD BE IGNORED

Section_L_1 [°C]	Section_R_1 [°C]
Section_L_2 [°C]	Section_R_2 [°C]
Section_L_3 [°C]	Section_R_3 [°C]
Section_L_4 [°C]	Section_R_4 [°C]
Section_L_5 [°C]	Section_R_5 [°C]
Section_L_6 [°C]	Section_R_6 [°C]
Boiling onset [mm]	