

UNIMAT Heating boiler UT-L

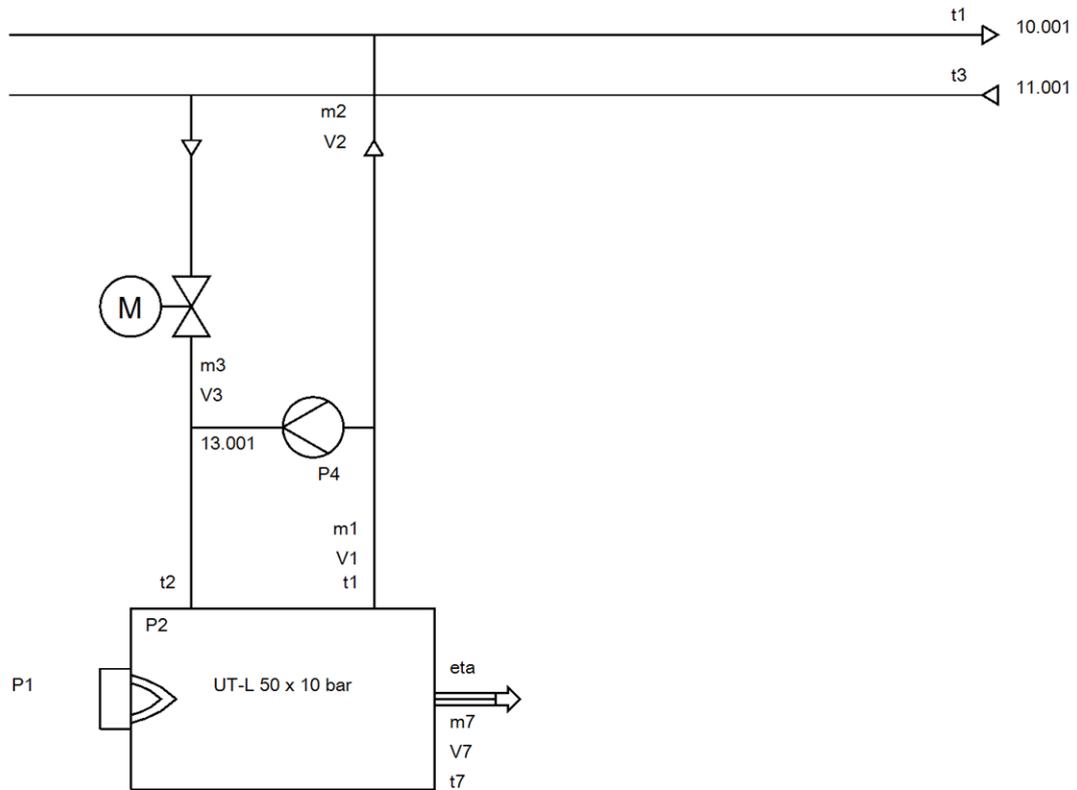
Project number: 222958/3.155

DA415

Offer No.: --155

Printing date: 26.04.2022

Material flow and temperature balance



legend

m1	Mass flow of boiler water	V1	Flow rate of boiler water
m2	Mass flow of hot water network	V2	Flow rate of hot water network
m3	Mass flow of admixture	V3	Flow rate of admixture
m4	Mass flow at inlet to flue gas heat exchanger	V4	Flow rate at inlet to flue gas heat exchanger
m5	Mass flow in the circuit of the flue gas heat exchanger	V5	Flow rate in the circuit of the flue gas heat exchanger
m6	Mass flow of admixture for flue gas heat exchanger	V6	Flow rate of admixture for flue gas heat exchanger
m7	Mass flow of flue gas	V7	Nominal flow rate of flue gas
t1	Temperature of supply flow to boiler	P1	Firing output of burner
t2	Temperature of return flow to boiler	P2	Boiler heat output
t3	Temperature return flow before admixt	P3	Heat output of flue gas heat exchanger
t4	Temperature of return flow to flue gas heat exchanger	P4	Rated motor output of pump for boiler
t5	Temperature at water inlet to flue gas heat exchanger	P5	Rated motor output of pump for flue gas heat exchanger
t6	Temperature at water outlet from flue gas heat exchanger	eta	efficiency
t7	Temperature of flue gas outlet		

Subject to change

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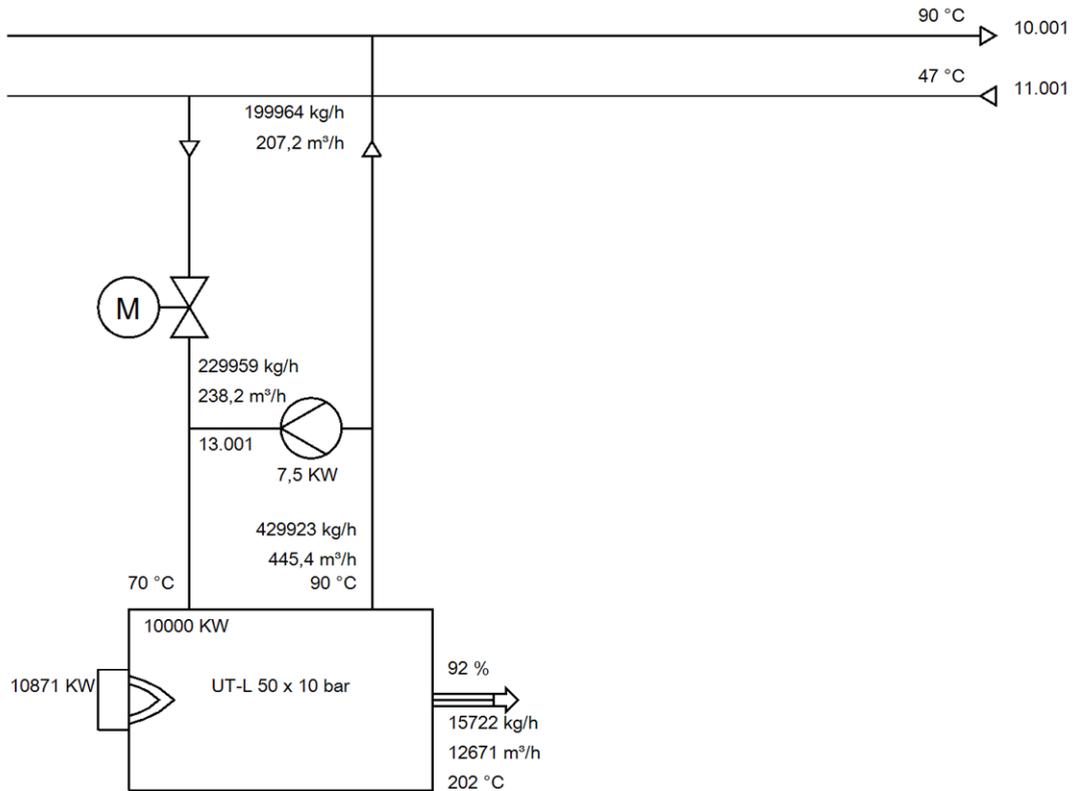
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Gas fuel



Position	Designation	Position	Designation
10.001	Hot water flow pipe	32.009	water inlet line
11.001	Hot water return flow pipe	32.010	water outlet line
13.001	admixing line	32.011	admixing line

- The scope of delivery is defined in the order confirmation.
- Piping diagram of hot water boiler - see DA111 / DA112 / DA113
- Piping diagram for hydraulic integration of the flue gas heat exchanger - see DA118 / DA119 / DA120 / DA175