

# Software for sanitary taps tests

## AQ2TB-M-LAB-D08 AQ2TB-M-LAB-NF+

Software for performing shut-off tests on thermostatic mixers, capable of detecting hot water loss in case of cold water failure, in accordance with D08 and NF Standards.

Shut-off test procedure:

- The software checks whether the water supply pressure and temperature values are within the limits set by the user and controls the supply line of cold and hot water.
- After a period of time (**T1**) necessary to stabilise the thermostatic mixers, the cold water supply is closed.
- During the time **T2** no evaluations take place.
- At the end of time **T3** cold water supply is restored (**T4**).
- Once the system is stabilized (**T5**) the software evaluates the difference between initial and final temperature.

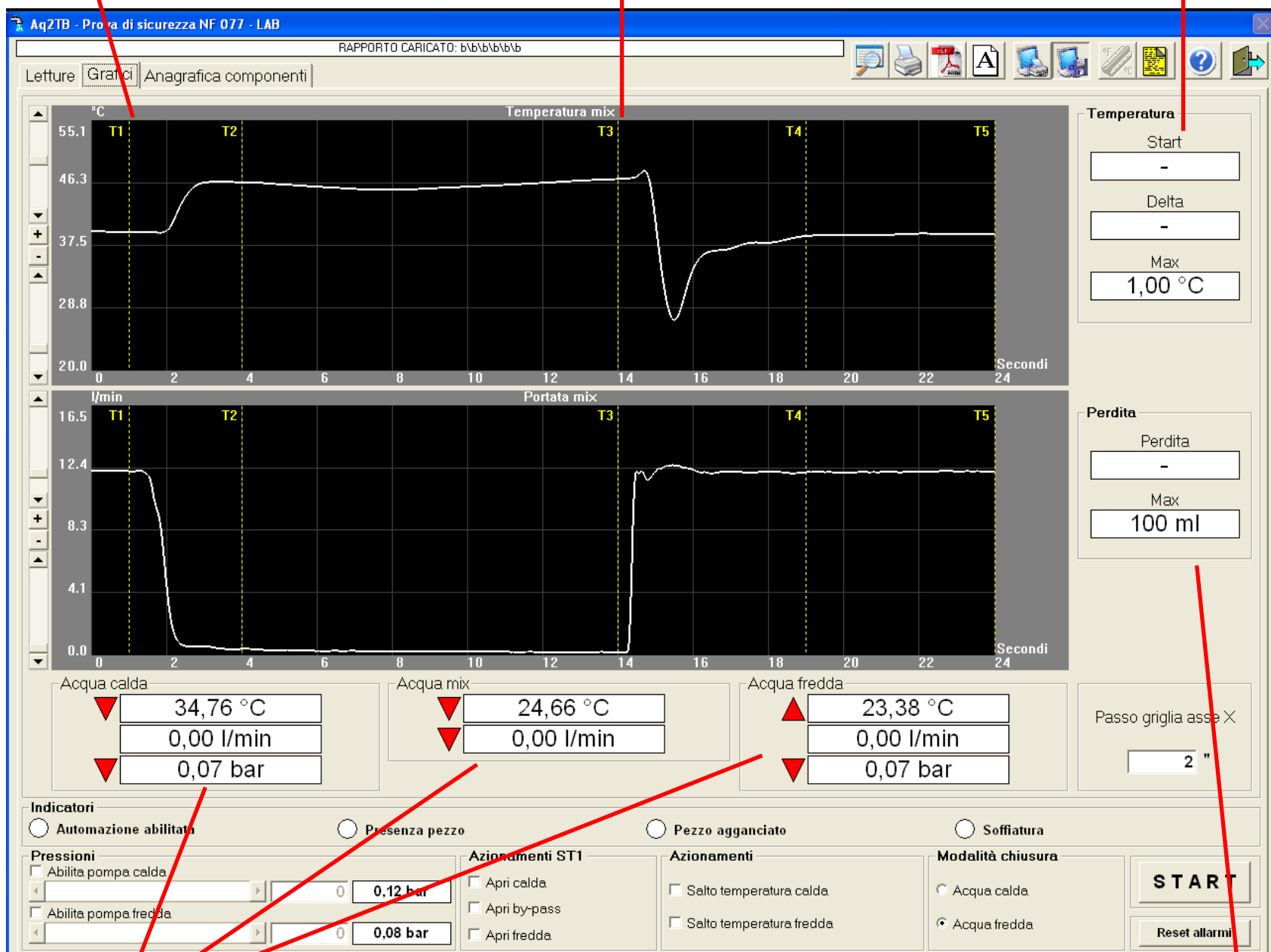
The software measures the quantity of water collected during the period **T3** and calculates the final temperature variation.

**Note:** The duration of each stage can be set by the user.

COLD WATER FAILURE

COLD WATER RESTORATION

EVALUATION OF TEMPERATURE VARIATION



CONTROL OF START-UP PARAMETERS

EVALUATION OF HOT WATER COLLECTED



## Setting of test parameters:

### SETTING OF PRESSURE, TEMPERATURE AND FLOW-RATE START-UP LIMITS

### SETTING OF EXECUTION AND EVALUATION TEST TIMES

### SETTING OF TEST ACCEPTANCE LIMITS

Limiti di avvio	Set	+	-	Unit
Temperatura acqua fredda	15,0	3,0	3,0	°C
Temperatura acqua calda	60,0	10,0	10,0	°C
Temperatura acqua mix	38,0	2,0	2,0	°C
Pressione acqua fredda	3,00	1,00	1,00	bar
Pressione acqua calda	3,00	1,00	1,00	bar
Portata acqua mix	9,99	2,99	2,99	l/min

Tempi	Value	Unit
T1 - Attesa	1,0	"
T2 - Non verifica	3,0	"
T3 - Verifica perdita	10,0	"
T4 - Ripristino acque	5,0	"
T5 - Verifica delta temperatura mix	5,0	"

Limiti di accettazione prova	Value	Unit
Delta di temperatura mix tra T1 e T5	1,00	°C
Perdita	100	ml

## Example of test report:

### SUMMARY OF TEST SETTING

### CHARTS SUMMARY

### SUMMARY OF COMPONENT DATA

### TEST RESULT

Times	Quantity	Unit	Set	+	-	Read value
T1 1	Cold water temperature	°C	15,00	3,00	3,00	15,06
T2 3	Hot water temperature	°C	60,00	10,00	10,00	64,36
T3 4	Mix water temperature	°C	38,00	2,00	2,00	39,09
T4 5	Cold water pressure	bar	3,00	1,00	1,00	3,03
T5 5	Hot water pressure	bar	3,00	1,00	1,00	2,99
	Mix water flow rate	l/min	9,99	2,99	2,99	12,22

Test acceptance limits	Unit	Set	Results
Delta Mix temperature between T1 and T5	°C	1,00	-0,28
Loss	ml	100	65

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