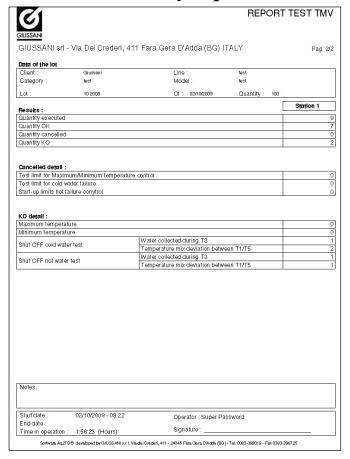
# Example of test report

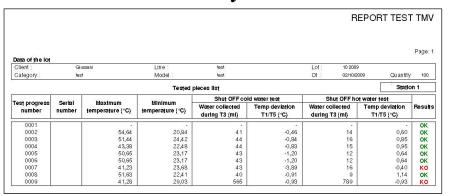
## Summary report



## Single-piece report

Ø			R	EPORT TES	з Г ТМ
SIUSSANI	V0- D-1 O-1 d-1 444 E-1-1	0 01444- (00)	ITAL M		
	Via Dei Crederi, 411 Fara	Gera D'Adda (BG)	HALY		
Data of the lot Client:	Giussani	Line :	test		
Category:	test	Model:	test		
Calegory .	est	Woder.	est.		
Lot:	10 2009	Of : 02/10/2009	Quant	ity: 100	
				Stat	lon 1
Component data: Fest progress numb	er: 0008				
resi progress numb Serial number:	Mar. 0006				
Jeriai Italiiber.					
Test settings :					
and the St					
Results :					
Description			Unit	Read value	Result
Test limit for Maximum/Minimum temperature control			°C	E4.00	011
Maximum temperature Minimum temperature			°C	51,63 22,41	OK OK
willimum temperatu Shut OFF ∞ld wate			v	241	UK
Start-up limits	i test				87
Temperature mix start			9C	38,33	
Water collected duri			ml 40 OK		
Femperature mix de		9C	-0.91		
Shut OFF hot water				9 01	
Start-up limits					7
Temperature mix start			°C	38.01	ок
Water collected during T3			ml	9	
Femperature mix de		°C	1, 14		
inal result					ок
00-02-0-10-10-0-0-2-2					
Notes:					
votes.					
Date of test :	02/10/2009	Operator : Super Password			
		Signature:			
Test duration :	1:02 (Minutes)	1000 70			

## Summary table



After each test it is possible to create a summary report containing the results of tests carried out with the details of any KO generated.

It is also possible to show the start-up limits, the execution parameters, the times and the limits of acceptance of the test.

The report includes the list of messages generated during the test and a summary of tests in tabular format with the details of the significant values generated for each piece and the overall outcome.

It is also possible to generate, for each single piece tested, a detailed test report with a summary of all results.



### GIUSSANI S.r.I.

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ISO 9001 CERT. N°9115



DAQ2TBTMV-E-02/11

# Software for thermostatic mixers tests

# **AQ2TB-M-PROD-NF**

# Software for final testing of thermostatic cartridges and wall or flush mounting thermostatic mixing valves

#### Main advantages of using the AQ2tb software for testing thermostatic mixing valves

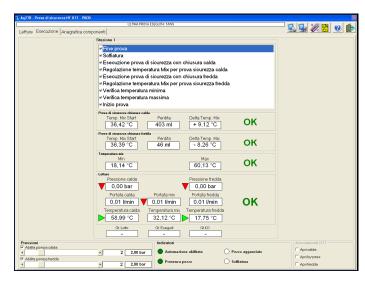
- Complete, quick and driven test procedure.
  - High productivity: 40-50 pieces/hour.
- Certain parameters and test conditions, modified only by the system administrator.
- Automatic sequence consisting of coupling piece, start testing, safety check, blowing and release piece with continuous monitoring of test parameters.

Measure of data detected at each step of the sequence with immediate evaluation of the

results.

- Storage of single step data and final evaluation of the device under test.
- It is possible to manage the test in batches of production which can be interrupted, closed or resumed.
- Final report with summary data of the batch under test, summary table of each piece with final evaluation and data regarding the times of test.

#### **Method of test execution**



The system administrator sets the parameters of the test, starting conditions, enables the steps of the sequence and save the code of the test, which can be personalized by customer or by product type.

The operator chooses the code of the component and begin the test sequence.

During the test, the software displays the measures of temperature, pressure and flow-rate in real-time and shows by means of green or red arrows, if they fall within the tolerance band set.

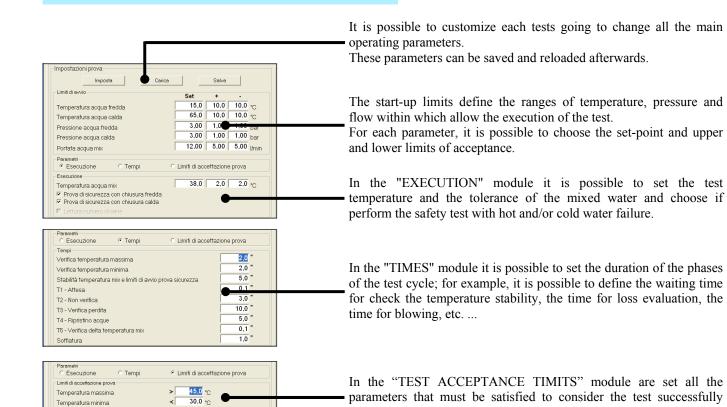
It is also shown the step-by-step testing sequence and the operator is advised of any faults of the component under test.

At the end of the test, the software saves the main data of the component and compile the final report.



# Working windows

### Setting of test parameters

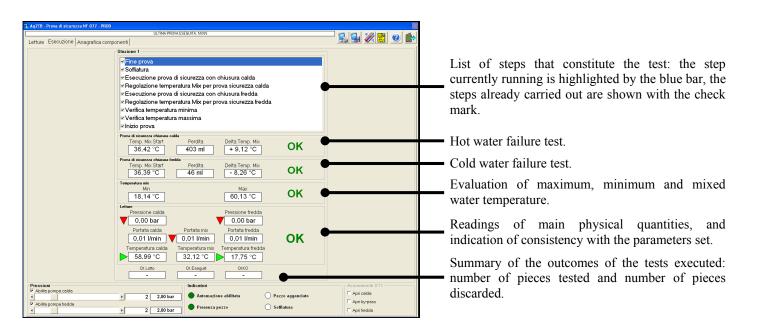


executed.

### Window of test execution

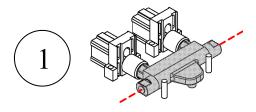
Delta di temperatura mix tra T1/T5

< 300 ml + 2,00 - 2,00 °C

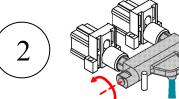


# **Execution of the test**

### Test cycle aided by the operator

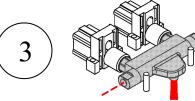


Positioning of the thermostatic mixer on the appropriate clamping device and closure of the safety barrier (or safety light curtain).

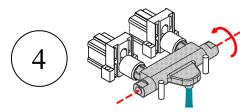


Automatic opening of the hot and cold water supply valves and checking if the test conditions are within the start-up parameters.

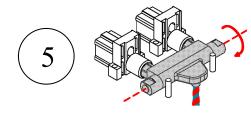
The operator adjusts the flow rate up to the value of the test. (about 12 L/min).



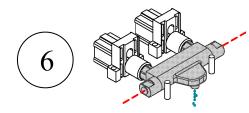
The operator rotates the temperature control device in the full hot position until the mechanical stop, the system verifies that the outlet water temperature exceeds the limit set, stores the data and enables the next step.



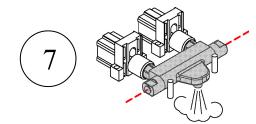
The operator rotates the temperature control device in the full cold position until the mechanical stop, the system verifies that the outlet water temperature is below the limit set, stores the data and enables the next step.



The operator rotates the temperature control device in the mixed position, the system verifies that the outlet water temperature is in the range of acceptance and controls its stability if the parameters are correct.



The system stores the mixed temperature value and then perform the hot and/or cold water failure test, it measures the quantity of water lost, it reopens hot and/or cold water, checks the stability of the temperature and, after the stabilization time, evaluates the final  $\Delta T$ .



The system starts the blowing that occurs with hot air from the hot side and cold air from the cold side to maintain the thermostatic cartridge in the mixed position.

At the end of the blowing, the system discharges the residual pressure, uncouples the device under test and saves the results.