



PROTOCOL

Tightness test of metal
KAN-therm systems
Medium: water

Install your **future**

Investor:

Investment/address:

Contractor of the installation:

Storey/room:

Name of the system:

Installation of hot and cold water and its circulation

Test pressure $P_{op} = P_{proj.} \times 1,1$ [bar]

Heating and cooling water installation

Test pressure $P_{op} = P_{work} + 2$ [bar] but not less than 4 bar

P_{op} - pressure at which the tightness test is performed

$P_{proj.}$ - maximum allowable pressure for the installation system

P_{work} - system operating pressure

Prior to the tightness test, diaphragm expansion vessels, fittings which may interfere with the test (e.g. differential pressure regulators, safety valves and any other installation components with an allowable working pressure lower than the test pressure must be disconnected).

The installation must be thoroughly flushed, filled with clean medium and vented before the test. The temperature of the medium should be stabilised in relation to the ambient temperature. For the test, use a manometer with a measuring range of 50% greater than the test pressure and an elementary scale of test pressure and an interval of 0.1 bar. Connect the manometer at the geometrically lowest point of the system.

The ambient temperature should not change during the test.

Perform The tightness test in 2 steps:

PRELIMINARY TEST WITH REDUCED PRESSURE

Test pressure	Preliminary test conditions	Conditions of acceptance:
1.0 to 4.0 bar	- time to visually check all connections - keep the test pressure constant level	No moisture or leakage <input type="checkbox"/>

MAIN TEST

Test pressure	Duration of the test	Conditions of acceptance:
$P_{op} = \text{-----}$	10 min	No moisture or leakage <input type="checkbox"/> No pressure drop <input type="checkbox"/>

SUMMARY:

Ambient temperature:	Main test - duration	Pressure drop:
<input type="text"/>	<input type="text"/>	<input type="text"/>

Test result:

POSITIVE

NEGATIVE

.....
Date of test

.....
Ordering party signature

.....
Contractor signature