

BALANCING TOOLS

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TA's Total Hydronic Balancing includes everything you need to make hydronic systems perfectly controllable. Not just hardware, but also methods and procedures, computer software, documentation and hands-on services. TA regularly holds technical seminars on balancing for HVAC designers as well as hands-on balancing training for installers, maintenance technicians and other interested parties.



SOFTWARE

Our computer programs help you calculate the parameter values that ensure the most economical design on the basis of defined system requirements.



PACKAGED KNOW-HOW

Total Hydronic Balancing is our comprehensive manual about balancing of hydronic circuits. Booklets and white papers deal with specific aspects and problems.



CONVERSION DISC

For easy calculation of the relationship between flow, pressure and setting values for all valve sizes.

we knowhow

TA

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SOFTWARES

TA Select

TA Select, the program that helps you select the right valves for balancing heating and cooling systems in a way that's as fast as it's simple.

One of the most important features is that you can use the program for dynamic balancing with Differential pressure controllers. In most cases, all you need to enter are flow and the nature of the valve function you're looking for. TA Select will then present the product that's closest to the values you've specified, and will also put forward alternatives. Calculations are based on K values, C values, flow, pressure drop etc, and all values are simple to vary for different products.

TA Select is available in several versions and languages.

TA-Pocket - The Hydronic Pocket Calculator

- Balancing valve calculation and selection.
- Flow, Kv and pressure drop calculation.
- Power, flow and ΔT calculation.
- Pipe selection.
- Selection of valve size and technical parameters for Δp control valves (TA Regulator and STAP) and balancing valves (STAD, STAF and TBV-C). Δp controller selection.
- Editable fluid parameters.
- Unit conversion tool.

TA Shunt

TA Shunt is made to select TA Prefab Shunt groups. From a minimum input, the software suggests the size of the group, selects the control valve and selects the pump. Several selections can be made and collected in one single document for printing. It comes with a manual which can be printed.

HANDBOOKS

Total Hydronic Balancing

A complete technical publication by Robert Petitjean, covering design and troubleshooting of hydronic systems. This publication covers pipes, terminal units, pumps, control valves, chillers, boilers, variable and constant flow systems and many other subjects associated with the design and troubleshooting of hydronic systems.

The book provides examples of hydronic designs from all over the world. Advantages and disadvantages of different solutions are discussed. The book gives advice about when one solution is to be preferred over another. It tells how to design and troubleshoot hydronic circuits for exact control and smooth operation.

Manuals

See the following manuals for descriptions of various balancing methods:

Manual No. 1: Balancing control circuits

Manual No. 2: Balancing distribution systems

Manual No. 3: Balancing of radiator systems

Manual No. 4: Hydronic balancing with differential pressure controllers

OTHERS

Measuring instruments

Use the balancing instrument TA-SCOPE or measuring instrument TA-CMI. They are programmed with valve characteristics for TA valves, enabling measured differential pressure to be read off directly as a flow rate.

For further information on TA-SCOPE and TA-CMI, see each catalogue leaflet.

Conversion disc

By using the conversion disc it is easy to calculate the relationship between flow, pressure and setting values for all valve sizes.

Please contact your nearest sales office for further information.

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For the most up to date information about our products and specifications, please visit www.tourandersson.com.

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