

## Welding technique

The aquatherm black system is connected by "fusion".

Simply by heating up the joining elements the plastic melts, allowing the connecting of parts with a single material and forming a permanent connection. The grids can be connected in parallel as well as in series.

Due to the wide range of aquatherm green pipe fittings single connection as well as complete commercial sized installations, including manifolds, can be constructed.

Transition connections for the approved aquatherm grey pipe sliding sleeve technology complete the system.

### In parallel:

In parallel connection grids of the same height are connected as grid pairs.



1) Mounted welding device and tools (16 mm)  
Control of temperature



2) aquatherm black system is equipped with male/female connections for fusion in parallel.



3) Push internal connection of the first grid into the (socket) heating tool and at the same time the external connection of the second grid onto the (spigot) heating tool.



4) After the required warm-up time of 8 sec., remove the elements from the tools and immediately push together (welding depth 13 mm).

### with series connections

Wall heating and cooling grids with series connection are fused with diffusion-tight connection pipes and fittings, as described on previous page.



Fusion...



... of pipe pieces.