

# B649

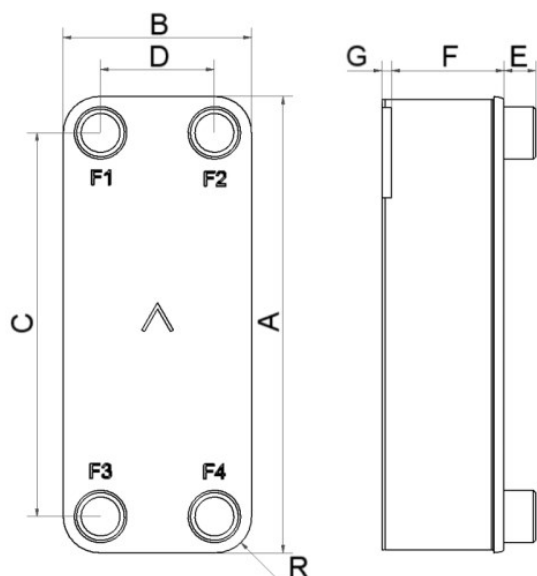
The B649 is ideal for district heating and cooling networks, HVAC, and industrial projects that need an efficient compact BPHE with close temperature approaches at high operating pressures. The big, one-phase B649 delivers PHE-like capacities without the wear and tear of parts. Most of the material (95%) in BPHEs is used to transfer heat, compared with other technologies that use a lot of material for supports, frames, etc. This high-capacity BPHE saves money on spare parts, space, energy consumption, transportation, and installation.



## Basic specifications

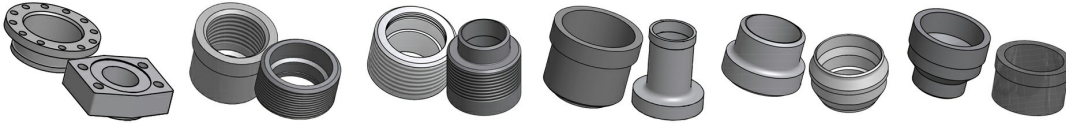
Maximum number of plates (NoP)	420
Max flow	349.9 m <sup>3</sup> /h (1540.56 gpm)
Channel volume	1.18/1.18 dm <sup>3</sup> (0.0417/0.0417 ft <sup>3</sup> )
Material	316 stainless steel plates, copper brazing
Weight excl. connections	79.45+(1.941*NoP) kg 175.15+(4.279*NoP) lb

## Standard dimensions



#	MM	IN
A	1232	48.5
B	537	21.14
C	995	39.17
D	300	11.81
F	45.08+2.09*(NoP)	1.77+0.08*(NoP)
G	0	0
R	118.50	4.67
E_1	54	2.13

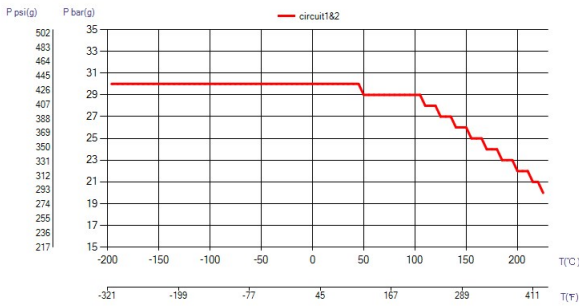
## Available connections



Flange Connection Threaded Connection Combo Connection Solder Connection Weld Connection Victaulic Connection

\*For specific dimensions, or information about other types of connections, please contact your SWEP sales representative.

## PED Pressure / Temperature



## Product concept

The Braze Plate Heat Exchanger (BPHE) is constructed as a plate package of corrugated channel plates with a filler material between each plate. During the vacuum brazing process, the filler material forms a brazed joint at every contact point between the plates, creating complex channels. The BPHE allows media at different temperatures to come into close proximity, separated only by channel plates that enable heat from one media to be transferred to the other with very high efficiency. The concept is similar to other plate and frame technology, but without the gaskets and frame parts.

## 3rd party Approvals

Most SWEP products are approved by below listed certification organizations: Europe, Pressure Equipment Directive (PED) America, Underwriters Laboratories Inc (UL) Japan, Kouatsu-Gas Hoan Kyoukai (KHK) Additionally SWEP holds approvals from a vast variety of other certification organizations. For more details please contact your local SWEP representative. SWEP reserves the right to make changes without prior notice.

## Find product solution - SSP

With SWEP's unique SSP, the SWEP Software Package, you can do advanced heat transfer calculations yourself. It's also easy to choose connections and generate drawings of the complete product. If you would like advice, SWEP offers all the service and support you need. Several SWEP accessories are also available to fulfill additional needs.

## Disclaimer

The information and recommendations in regards to the products are presented in good faith, however, SWEP makes no representations or warranties as to the completeness or accuracy of the information. Information is supplied upon the condition that the purchasers will make their own determination as to the products' suitability for their purposes prior to use. Purchasers should note that the properties of the products are both application and material selection dependent and that products containing stainless steel are still object to corrosion if used in unsuitable environments. Standard data is presented, product variants with different data may exist. Contact your SWEP sales representative for more details. SWEP may change any data without notice.