

## Hydraulic set Brigade

### OPERATING AND INSTALLATION MANUAL

#### Application:

Brigade is dedicated to both CH and DHW installations, depending on which pump groups are used.

#### Advantages:

The Brigade is a construction focused on saving time (up to several hours) in the assembly of boiler rooms with multiple heating circuits. Installation using EPP forms is a solution that gives a much greater aesthetics of the boiler room than in the case of using several dozen connectors, and additionally, thanks to pressure testing, it guarantees operational reliability. The design is based on the patented KRE compact connecting manifold with an integrated flow divider, which guarantees even heat distribution in the heating circuits.

#### Assembly:

The Brigade is factory-assembled, it requires connection of a heat source on the boiler side and a heating system on the side of the pump groups. The universal design allows for installation in three positions. There are three variants of the pump groups built into the Brigade: a group with a rotary mixing valve with an actuator, a group with a thermostatic mixing valve and a universal / direct group.



#### Technical data

Rotary valve with actuator  
Thermostatic rotary valve  
Electronic pump

KVS do 8,0  
KVS 1,6 or 3.2, 20-43°C  
DN25, 180mm

Temperature range  
External dimensions  
Heat source connection  
Heating circuits connection

5 - 95°C  
750 x 480 x 240 mm  
1" Ext.  
1" Ext.

\* the manufacturer reserves the right to change the design of the products

## WARRANTY

- ✓ The manufacturer gives warranty for faultless operation of device for a period of 2 years (24 months) of the date of sale.
- ✓ Warranty repairs are made by the manufacturer or authorised representative of the same.
- ✓ Warranty expires if any alterations are made to the product without the manufacturer's consent, or if the product covered by the warranty is used against its intended purpose, in which cases the manufacturer shall not be held liable for any negative effects of such product use.
- ✓ The user is responsible for strict adherence to the operating and installation manual for the device, paying particular attention to the maximum admissible technical parameters provided in the relevant catalogue sheet.
- ✓ Failure to adhere to the above renders the warranty void.
- ✓ Incomplete warranty is invalid.
- ✓ Specific cases not covered by this warranty are regulated by the Civil Code.

Producer seal	Date of sale	Seller seal and signature

## Declaration of conformity EN 1/2020

Elterm M.M. Kaszuba Sp.J., ul. Przemysłowa 5, 86-200 Chełmno

We herewith declare, under our sole responsibility, that the following products::

- **Squadron hydraulic sets:** radiator heating; for underfloor heating and universal ones
- **Company hydraulic sets:** for radiator heating; for underfloor heating and universal ones
- **Brigade hydraulic sets:** for radiator heating; for underfloor heating and universal ones

Manufactured by ELTERM conform to the pressure equipment directive 2014/68/UE; EN 13445 "Unfired pressure vessels" as amended - UNM and to the ordinance by the Minister of Economy of 11.02.2015 on the absolute requirements concerning pressure equipment and pressure equipment units (Journal of Laws Dz.U.2015 poz. 244).

Relevant conformity assessment procedure: Internal production control - module A (in accordance with 2014/68/UE - equipment up to category I). Usable for water with  $T < 110^{\circ}\text{C}$ , for the remaining maximum admissible operating parameters and dimensions see the relevant manual or catalogue sheets available at [www.elterm.pl](http://www.elterm.pl)

Additionally we herewith declare, under our sole responsibility, that pump groups with pumps, manufactured at the Elterm production plant, are in conformity with the applicable provisions of the following EC Directives:

Number	Title
2006/95/WE as amended	Low Voltage Directive (LVD)
2004/108/WE as amended	Electromagnetic Compatibility Directive (EMC)
2002/95/WE as amended	Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)
2002/96/WE as amended	Directive on waste electrical and electronic equipment (WEEE), GIOŚ register number E0001767
ErP 2009/125/WE	General rules for setting requirements concerning Ecodesign for energy related products (Attachment 13)
EU Commission regulation nr 622/2012	With regard to Ecodesign requirements for glandless standalone circulators and glandless circulators integrated in products

Chełmno, January 1st 2020

Maciej Kaszuba

