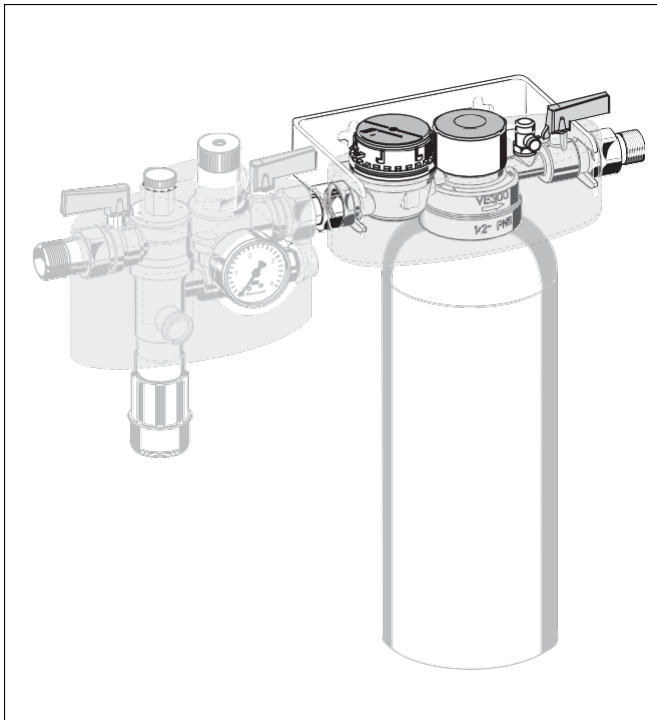


## Braukmann VE300

### Heater water treatment unit for heating systems

#### Product specification sheet



#### Construction

The heater water treatment unit (VE300) consists of:

- Blending unit, consisting of water flow meter, outlet-sided blocking capability and bleeder valve
- Stainless steel mounting bracket with connection set
- Threaded male connections
- Total hardness test-kit to determine water hardness

#### Materials

- Dezincification-resistant brass housing
- Mechanical components of the heater water treatment unit made of high-quality plastic
- EPDM sealing washers

#### Application

The heater water treatment unit of the Resideo VE300 facilitates the softening of heating water. Limescale and thereby caused damages and malfunction in hot water heating system are avoided efficiently.

According to DIN EN 1717 the refilling combination NK300 have to be fitted on the inlet to protect the portable water supply.

#### Special Features

- Intergrated water meters simplify the determination of cartridge exchange
- Easy installation and exchange of cartridge without tools
- Constant connection with the drinking water supply in accordance with EN1717 by hose line or piping is possible in case of using a NK300

#### Range of Application

Medium Water

Inlet pressure max. 6,0 bar

Suitable for heating systems with the following materials: Steel, copper, copper alloys and plastics (for softening) and aluminium, aluminium alloys, steel, copper, copper alloys and plastic (for complete demineralisation).

Treated water has modified corrosive chemical parameters. Conditioning by means of inhibitors is to be provided for separately.

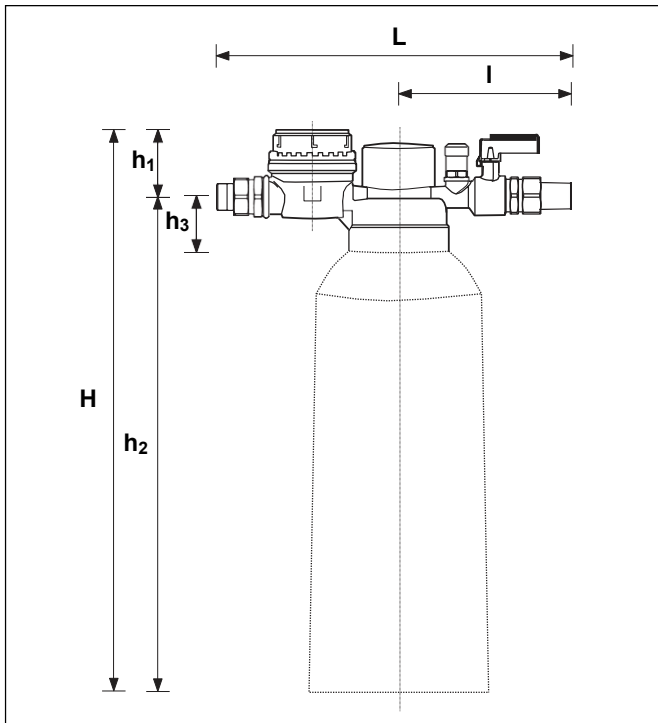
#### Technical Data

Installation position horizontal

Operating temperature max. 30 °C

$k_{vs}$ -value 0.45 m<sup>3</sup>/h

Connection size 1/2" External thread



Method of Operation

The heater water treatment unit (VE300) installed directly below the refilling combination (NK300) uses the ionic exchange principle to soften water, replacing alkaline earths such as calcium and magnesium with sodium ions.

Depending on the regional water hardness, the heater water treatment unit is set to partially soften (<math>8^{\circ}\text{dH}</math>) or completely soften (<math>0.11^{\circ}\text{dH}</math>) the water.

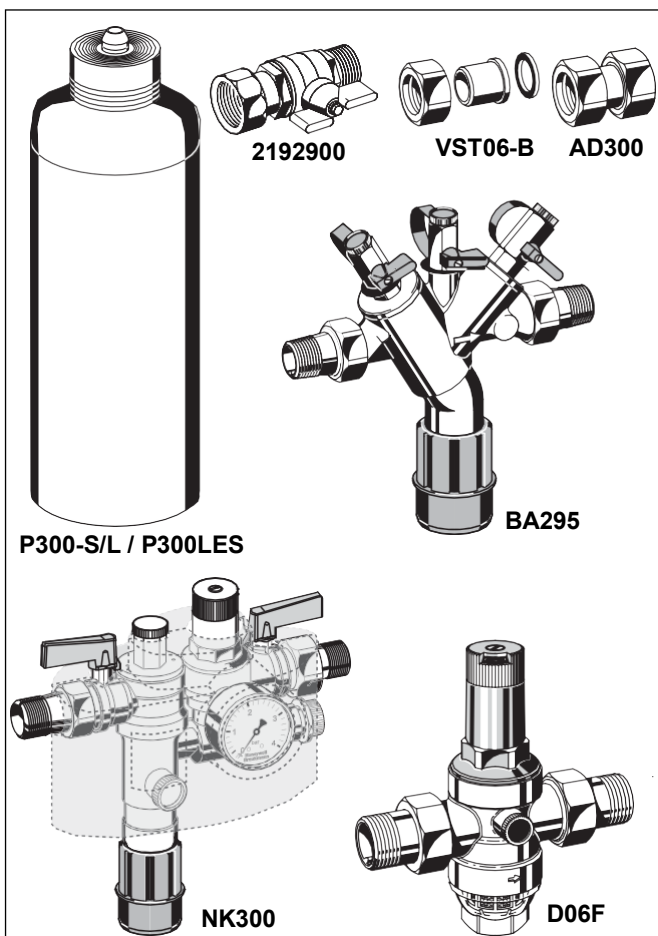
Complete demineralisation will completely remove the mineral deposits in the water!

For complete demineralisation, the dilution must be set to 0!

Options

VE300-1/2A = Standard version with threaded connection R $\frac{1}{2}$ "

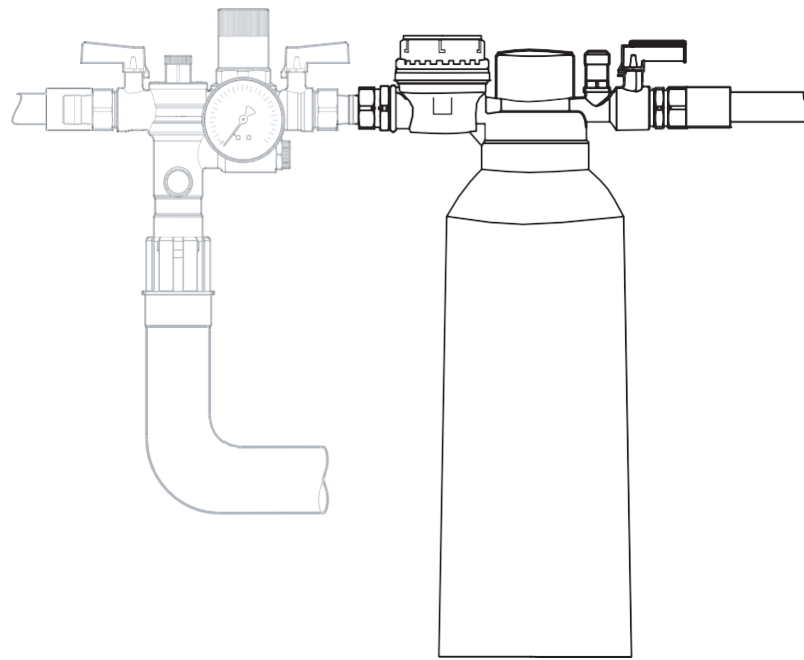
Connection size	R	1/2"
Weight	kg	1.8
Dimensions	mm	
	H	504
	h <sub>1</sub>	54
	h <sub>2</sub>	450
	h <sub>3</sub>	45
L		296
		138
k <sub>vs</sub> -value	m <sup>3</sup> /h	0.45



Accessories

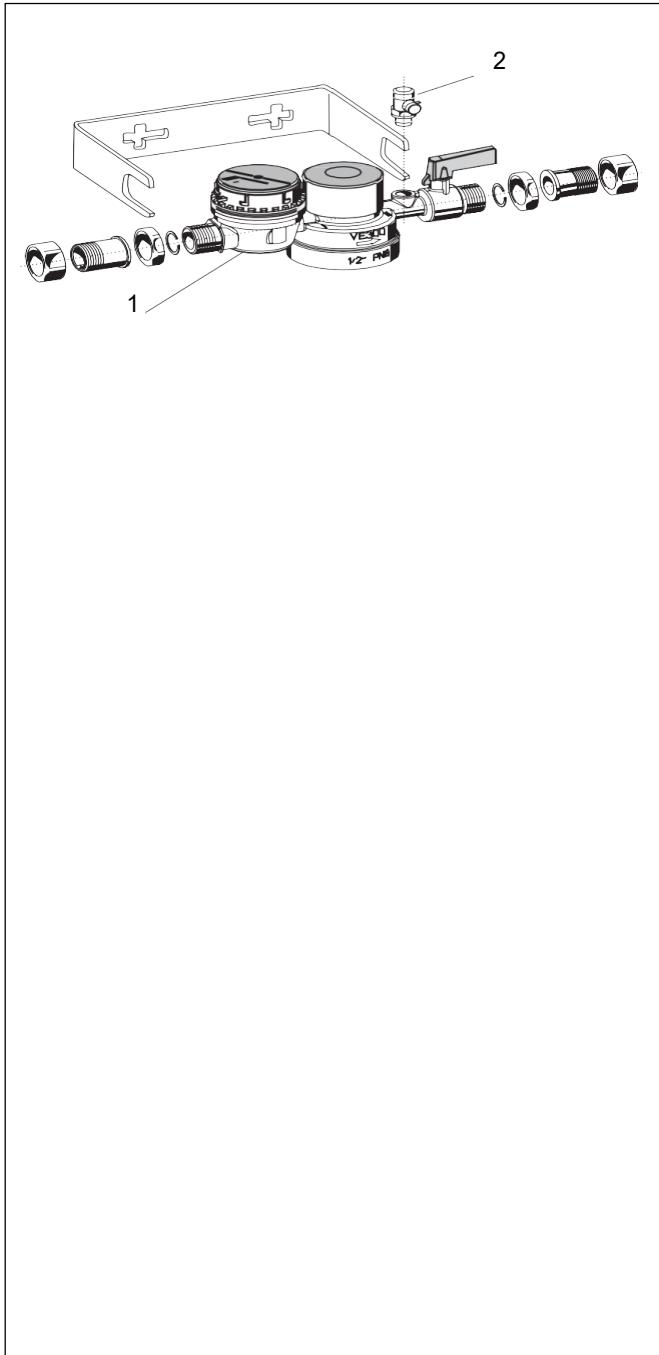
- 2192900 Shutoff valve  
Connection size 1/2"
- VST06-B Connection set  
Solder connections
- P300-S Softening cartridge  
0.75l softening cartridge with ionic exchange resin
- P300-L Softening cartridge  
3.5l softening cartridge with ionic exchange resin
- P300-LES Complete demineralisation cartridge  
3.5l complete demineralisation cartridge with exchange resin
- AD300 Adapter  
To fit the softening unit to a 3/4" male connection.
- D06F Pressure reducing valve  
Noiseprotected pressurereducingvalvewithsetting scale. Maximum inlet pressure 16 bar, with brass filter bowl 25 bar, outlet pressure range 1.5 - 6.0 bar  
A = With clear filter bowl up to 40 °C / 16 bar  
B = With brass filter bowl up to 70 °C / 25 bar
- BA295 Backflow Preventer  
To protect drinking water systems against back pressure, backflow and withdrawal. Protection against fluids up to and including fluid category 4 acc. to DIN EN 1717.
- NK300 Refilling combination  
Liquid catagory 4, with pressure gauge, shutoff valve and isolating shell

## Installation Example



## Installation Guidelines

- Installation in the inlet to the heating system, fasten the heater water treatment unit (VE300) to the wall
- Installation into horizontal pipeline
- The installation may not take place in areas or ducts where poisonous gases or vapours may be present or where flooding can occur
- The installation environment should be protected against frost and ventilated well
- The installation location has to be easily accessible
  - o Simplified maintenance and cleaning
- Acc. to DIN EN 1717 in direction of flow, first install the refilling combination (NK300) and directly after it, the heater water treatment unit (VE300)
- The national installation regulations must be observed during the assembly.
- When installing a refilling combination (NK300) above the heater water treatment unit (VE300), provide a shut-off device



Spare Parts

Heater water treatment unit VE300 (2009 onwards)

No.	Description	Dimension	Part No.
1	Water flow meter		WZ300
2	Air bleed valve		2421100