

*Best Deal - STAINLESS STEEL*



LAS - E Electric Water Heater Systems  
Electrawa 6 - 48 kW



Stainless Steel Storage Tanks

Serie LAS-E 150 - 8000  
or tailor made

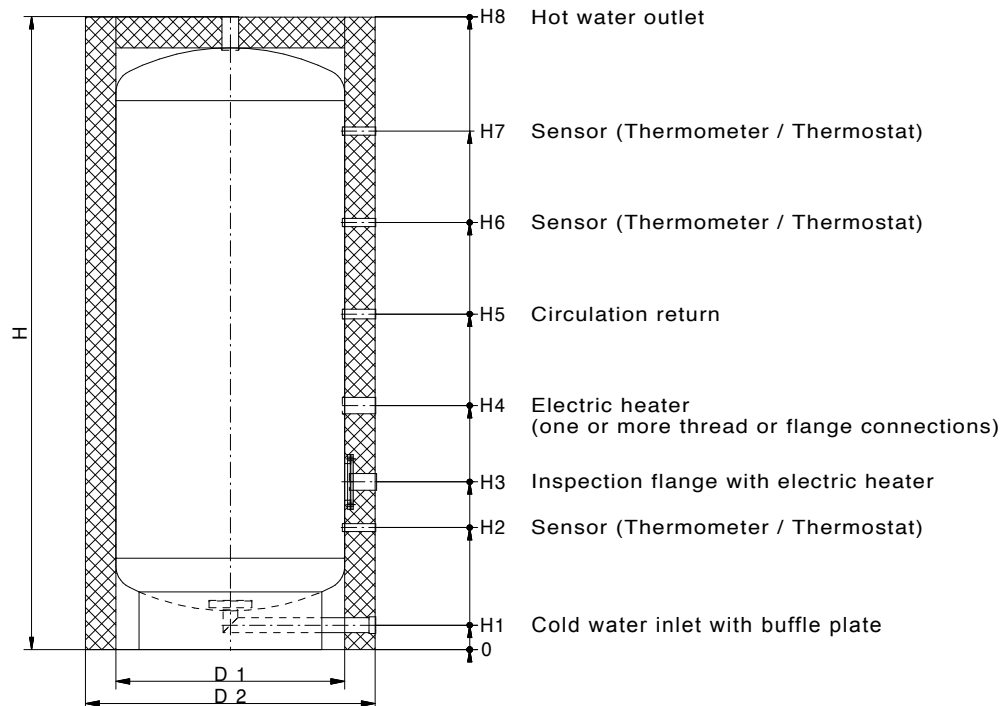
Electric capacity and control  
to customers request



heat exchangers - hot water systems - district heating stations

## TYPE: LAS-E

Domestic hot water storage tanks exclusively stainless steel



Measures in mm

Material: ANSI 316 Ti / 1.4571 / 1.4404

| Capacity (L)                   | 150       | 200     | 300     | 400     | 500     | 500     | 600     | 750     | 1000    |
|--------------------------------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|
| H1                             | 65        | 65      | 65      | 65      | 65      | 65      | 65      | 80      | 80      |
| H2                             | 380       | 305     | 305     | 350     | 350     | 350     | 365     | 400     | 430     |
| H3                             | 380       | 455     | 455     | 505     | 505     | 505     | 520     | 550     | 580     |
| H4                             | 580       | 700     | 650     | 700     | 800     | 750     | 700     | 800     | 900     |
| H5                             | 780       | 850     | 850     | 950     | 1080    | 960     | 1030    | 1100    | 1110    |
| H6                             | 580       | 1000    | 1050    | 1200    | 1360    | 1170    | 1360    | 1400    | 1320    |
| H7                             | 780       | 1150    | 1250    | 1400    | 1640    | 1380    | 1690    | 1700    | 1530    |
| H8                             | 992       | 1452    | 1552    | 1657    | 1992    | 1959    | 2048    | 2078    | 1750    |
| H9                             |           |         |         |         |         |         |         |         | 2037    |
| H height total                 | 992       | 1452    | 1552    | 1657    | 1992    | 1959    | 1990    | 2078    | 2087    |
| D1 without insulation          | 500       | 500     | 500     | 600     | 600     | 650     | 650     | 750     | 900     |
| D2 - polyesterfleece           | 700       | 700     | 700     | 800     | 800     | 850     | 850     | 950     | 1100    |
| Weight (kg)                    | 40        | 55      | 70      | 80      | 85      | 95      | 105     | 135     | 155     |
| Ttl. height with insulation    | 1282      | 1603    | 1834    | 1915    | 2145    | 1952    | 2197    | 2280    | 2367    |
| Ttl. height without insulation | 1100      | 1470    | 1712    | 1756    | 2005    | 1774    | 2047    | 2101    | 2072    |
| Connections                    |           |         |         |         |         |         |         |         |         |
| Cold and hot water             | FM 1 1/4" | 1 1/4"  | 1 1/4"  | 1 1/4"  | 1 1/2"  | 1 1/2"  | 1 1/2"  | 1 1/2"  | 1 1/2"  |
| Electric heater                | FM 1 1/2" | 1 1/2"  | 1 1/2"  | 1 1/2"  | 1 1/2"  | 1 1/2"  | 1 1/2"  | 1 1/2"  | 1 1/2"  |
| Inspection flange              | 120/180   | 120/180 | 120/180 | 120/180 | 120/180 | 120/180 | 120/180 | 120/180 | 120/180 |
| Circulation return             | FM 3/4"   | 3/4"    | 3/4"    | 3/4"    | 3/4"    | 3/4"    | 3/4"    | 3/4"    | 3/4"    |
| Thermostat                     | FM 1/2"   | 1/2"    | 1/2"    | 1/2"    | 1/2"    | 1/2"    | 1/2"    | 1/2"    | 1/2"    |
| Thermometer                    | FM 1/2"   | 1/2"    | 1/2"    | 1/2"    | 1/2"    | 1/2"    | 1/2"    | 1/2"    | 1/2"    |
| Venting                        | FM        |         |         |         |         |         |         |         | 1"      |

\* All FM connections according to DIN 2999 part 1 are extended to 110 mm

\* 100mm fleece insulation with reinforced PR-jacked. Colour RAL 9006 silver

\* LAS 150: Thermostat- and Thermometer connections are placed 180° offset

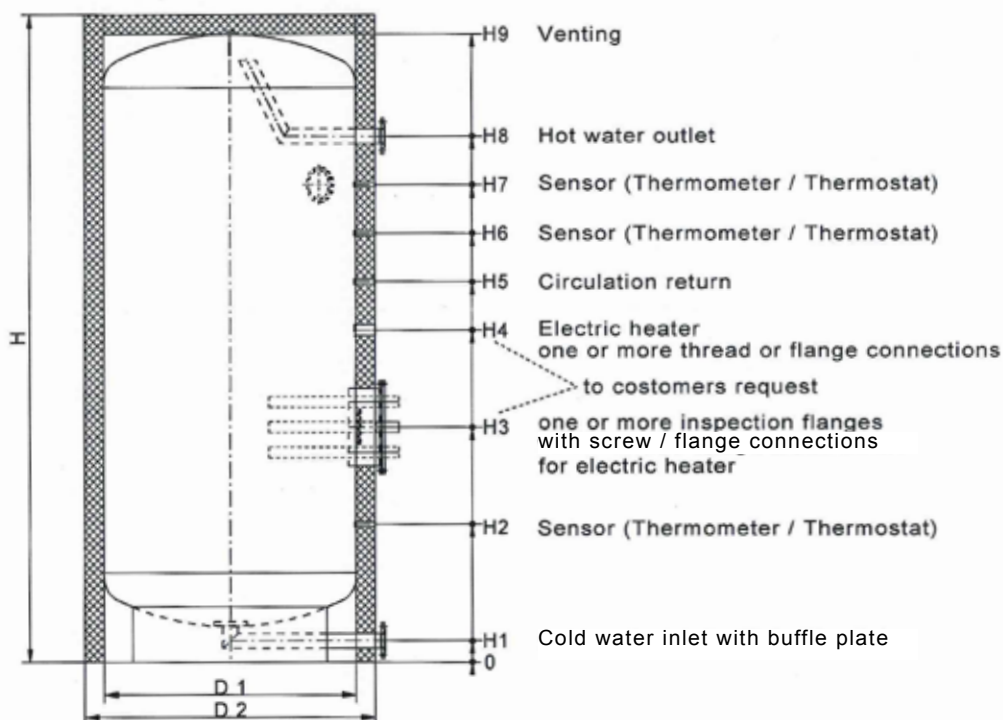
\* LAS 1000: Hot water outlet is arranged laterally, in the upper dished bottom, a vent sleeve is used instead

\* Subject to technical changes

heat exchangers - hot water systems - district heating stations

## TYPE: LAS-E

Domestic hot water storage tanks exclusively stainless steel



Measures in mm

Material: ANSI 316 Ti / 1.4571 / 1.4404

| Capacity (L)                   | 1250      | 1500      | 2000    | 3000    | 4000    | 5000    | 6000    | 7000    | 8000    |
|--------------------------------|-----------|-----------|---------|---------|---------|---------|---------|---------|---------|
| H1                             | 70        | 70        | 100     | 110     | 115     | 115     | 115     | 135     | 135     |
| H2                             | 410       | 410       | 510     | 550     | 600     | 600     | 685     | 705     | 705     |
| H3                             | 545       | 545       | 710     | 900     | 950     | 950     | 1030    | 1050    | 1050    |
| H4                             | 750       | 900       | 1000    | 1310    | 1350    | 1500    | 1400    | 1500    | 1700    |
| H5                             | 965       | 1215      | 1360    | 1600    | 1500    | 2000    | 1600    | 1730    | 2080    |
| H6                             | 1065      | 1315      | 1460    | 1700    | 1700    | 2200    | 1800    | 1860    | 2210    |
| H7                             | 1265      | 1515      | 1660    | 1900    | 2100    | 2600    | 1980    | 2090    | 2440    |
| H8                             | 1515      | 1765      | 2060    | 2300    | 2600    | 3100    | 2285    | 2705    | 3055    |
| H9                             | 1830      | 2080      | 2421    | 2752    | 3080    | 3580    | 2846    | 3266    | 3616    |
| H height total                 | 1914      | 2164      | 2505    | 2836    | 3165    | 3665    | 2935    | 3355    | 3705    |
| D1 without insulation          | 1000      | 1000      | 1100    | 1300    | 1400    | 1400    | 1800    | 1800    | 1800    |
| D2 - polyesterlies             | 1200      | 1200      | 1300    | 1500    | 1600    | 1600    | 2000    | 2000    | 2000    |
| Weight (kg)                    | 180       | 215       | 285     | 450     | 475     | 670     | 1180    | 1300    | 1400    |
| Tilt height without insulation | 1907      | 2136      | 2523    | 2877    | 3267    | 3740    | 3134    | 3516    | 3840    |
| Tilt height with insulation    | 2260      | 2475      | 2822    | 3208    | 3546    | 3999    | 3552    | 3906    | 4210    |
| Connections                    |           |           |         |         |         |         |         |         |         |
| Cold and hot water             | FM 2"     | FM 2"     | DN 65   | DN 65   | DN 65   | DN 65   | DN 65   | DN 100  | DN 100  |
| Electric heater                | FM 1 1/2" | FM 1 1/2" | 1 1/2"  | 1 1/2"  | 1 1/2"  | 1 1/2"  | 1 1/2"  | 1 1/2"  | 1 1/2"  |
| Inspection flange              | 120/180   | 120/180   | 120/180 | 400/480 | 400/480 | 400/480 | 400/480 | 400/480 | 400/480 |
| Circulation return             | FM 3/4"   | FM 3/4"   | 3/4"    | 3/4"    | 3/4"    | 3/4"    | 3/4"    | 3/4"    | 3/4"    |
| Thermostat                     | FM 1/2"   | FM 1/2"   | 1/2"    | 1/2"    | 1/2"    | 1/2"    | 1/2"    | 1/2"    | 1/2"    |
| Thermometer                    | FM 1/2"   | FM 1/2"   | 1/2"    | 1/2"    | 1/2"    | 1/2"    | 1/2"    | 1/2"    | 1/2"    |
| Venting                        | FM 1"     | FM 1"     | 1"      | 1"      | 1"      | 1"      | 1"      | 1"      | 1"      |

\* All FM connections according to DIN 2999 part 1 are extended to 110 mm

\* 100mm fleece insulation with reinforced PR-jacked. Colour RAL 9006 silver

\* till 2000l is an additional handhole provided

\* Subject to technical changes

## heat exchangers - hot water systems - district heating stations

### Control Cabinets

- The perfect and reliable controllers to satisfy the widest range of installation requirements
- Simple termination control panel for smaller models, Standard ON/OFF control panel with pressure sensing device for standard models, microprocessor control panel with the superior characteristics including cascade function as an option.
- CAD drawing and wiring diagram for each control panel
- Industrial rating electrical components
- All types of control panels can be fitted to any group of models

#### A. Basic Control panel:

- Industrial standard IP 54 enclosure
- Control panel mounted on tank
- Magnetic type trip switch for over current protection
- Manual reset function
- Relays control for each heating element/stage
- All elements electrically tested, wired and pre-assembled for easy installation
- All parts meet European safety standards



#### B. Standard Control panel:

- Industrial type standard control panel mounted on tank with hinged door
- Standard BMS signals with common fault indication
- IP54 protection enclosure
- Main power cut-off switch coupled to door inter-lock
- Automatic electric cut-outs
- Selector switch for each heating elements/stage
- Individual fault indication (ON while on trip) of short circuit or safety cut-out tripping for each heating element/stage, and volt free output contacts for Building Management System
- Low water cut-out and sensing device
- Heating element ON indication light
- Automatic temperature limiter with high limits switch
- All elements electrically tested, wired and pre-assembled for easy installation
- All parts meet European safety standards

#### C. Microprocessor control panel

- Industrial standard control panel mounted on tank or self standing with hinged door with microprocessor controller
- 3 heating stages as standard
- IP54 protection enclosure
- Mains power cut-off switch coupled to door inter-lock
- Heater indicator/LED for each heating elements/stage
- Power-on indicator/LED indication
- Auto-off-manual switch for each of the heating element/stage
- Electronic temperature sensor
- C1: Peak-off control timer with programmable stage control and digital display
- C2: Turn-key superior processor controller by DINOX
- Individual fault indication (ON while on trip) of short circuit or safety cut-out tripping for each heating element/stage, and volt free output contacts for Building Management System
- Low water cut-out and sensing device
- All elements electrically tested, wired and pre-assembled for easy installation
- All parts meet European safety standards



#### D. Control panel for Hot water boiler/Heat Exchanger/Legionellaes

- Turn-key superior processor controller by DINOX



## heat exchangers - hot water systems - district heating stations

### Electric screw plug heating elements - for water heaters

The screw plug heating element in this series has especially been designed for use in water heaters and are equipped with a 6/4" sleeve. Both the heating elements and the R 6/4" screw in flange are made of corrosion resistant stainless steel.

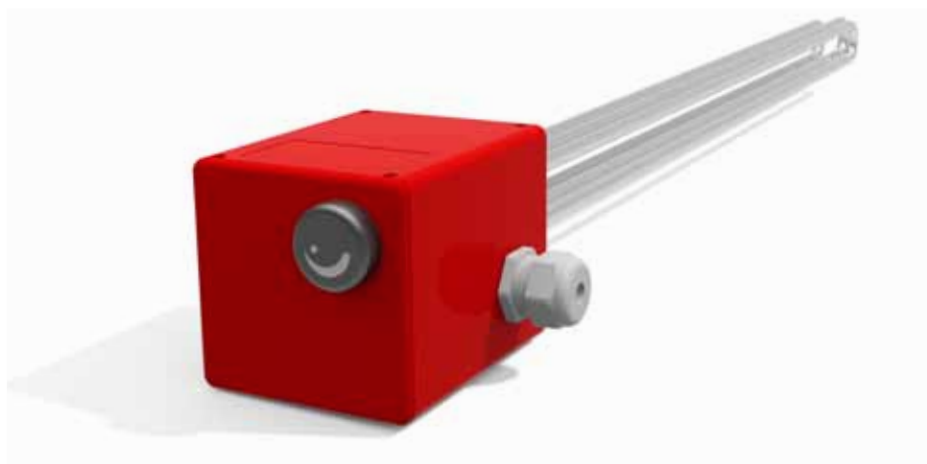
The plastic cover cap is sealed appropriately for sage use in damp conditions (protected from spray water, IP 54).

This cover cap has a built-in regulating thermostat (adjustment range up to 80 °C) with an external adjusting button and a safety temperature regulator (disconnection temperature at approx. 100 °C) with an internal reset button. The two temperature sensors (separate systems) are mounted in a protective tube and measure the water temperature directly. Therefore any damage to the heater is unlikely – also in the case of a defect regulating thermostat. Delivery without thermostats are possible. The screw plug heating elements have an unheated length of approx. 100 mm, which make them suited for installation in all conventional commercial heater with a maximum sleeve length of 100 mm. Standard series:

| Model                           | Heating capacity | Voltage   | Immersion length |
|---------------------------------|------------------|-----------|------------------|
| EHKi – 2,00/1                   | 2,00 kW          | 230 V     | 345 mm           |
| EHKi – 2,50/1                   | 2,50 kW          | 230 V     | 345 mm           |
|                                 |                  |           |                  |
| EHKi – 2,50/3                   | 2,50 kW          | 3 x 400 V | 345 mm           |
| EHKi – 3,00/3                   | 3,00 kW          | 3 x 400 V | 345 mm           |
| EHKi – 3,75/3                   | 3,75 kW          | 3 x 400 V | 345 mm           |
| EHKi – 4,50/3                   | 4,50 kW          | 3 x 400 V | 390 mm           |
| EHKi – 6,00/3                   | 6,00 kW          | 3 x 400 V | 490 mm           |
| EHKi – 7,50/3                   | 7,50 kW          | 3 x 400 V | 590 mm           |
| EHKi – 9,00/3                   | 9,00 kW          | 3 x 400 V | 690 (600) mm     |
| EHKi – 12,00/3                  | 12,00 kW         | 3 x 400 V | 1000 mm          |
| <b>DN 80 flange connection:</b> |                  |           |                  |
| HF 80 –18,0                     | 18,00 kW         | 3 x 400 V | 750 mm           |

assembly position: horizontally

Other heating capacities, voltages and installation lengths can be provided upon request and at short notice.



## heat exchangers - hot water systems - district heating stations

### Flange built-in electric heating systems

The flange built-in heating systems consist of an appropriate number of high-quality tubular radiators which are mounted on a flange plate. You can choose the appropriate type of built-in heating systems from our vast product range depending on the required power and installation position, the available fitting length and the required heating groups.

- Infinitely variable temperature control from 15 to 85 °C / 59 to 185 °F
- Energy-saving position at 65 °C / 149 °F
- Antifreezing position
- All-pole safety-temperature limiter
- Optimum protection against corrosion of the heating elements

| Type    | nominal power kW | nominal voltage | immersion Length mm | flange Ø mm |
|---------|------------------|-----------------|---------------------|-------------|
| HF-186  | 6                | 400 V<br>3 pH   | 300                 | 180         |
| HF-189  | 9                |                 | 300                 | 180         |
| HF-2812 | 12               |                 | 400                 | 280         |
| HF-2815 | 15               |                 |                     |             |
| HF-2818 | 18               |                 |                     |             |
| HF-2821 | 21               |                 |                     |             |
| HF-2824 | 24               |                 |                     |             |
| HF-2827 | 27               |                 |                     |             |
| HF-2833 | 33               |                 |                     |             |
| HF-2836 | 36               |                 |                     |             |
| HF-2848 | 48               |                 |                     |             |

assembly position: horizontally

other capacities or flange diameters on request



## heat exchangers - hot water systems - district heating stations

### Ceramic Heating Elements

Ceramic heating elements were designed for indirect heating of various liquid and gaseous media.

### Product properties

The basic difference from all other heaters used is the exchangeability. Ceramic heating elements can be inserted into existing steel or stainless steel protective pipes. The protective pipes are welded, screwed or flanged into the vessel. The heating elements can be changed at any time without draining the medium.

### Essential components in ceramic heating elements

#### Ceramic

The heating element consist of ceramic with high electrical insulation values.

#### Heating wire

The high heat resistant heating wire is pulled into the ceramic in spiral form. Collapsing of the spiral is ruled out by a horizontal arrangement of the heating element. In vertical installation, it is possible to prevent collapsing of the spiral by a special construction.

#### Protective tube

The protective tube with the internal diameter adapted to the external diameter of the ceramic heating elements can be delivered on request. Usually, the protective pipe is made of stainless steel. Special materials are possible.

#### Connection housing

On request a housing made of powder-coated steel sheet or stainless steel can be provided. The housing can be screwed to the vessel or flange.

#### Dimensions

Ceramic heating elements are available in the standard diameters of 21.5 mm, 32.0 mm, 36.5 mm, 46.0 mm and 58.0 mm.

#### Electrical connection

The electrical connection can be designed either as a flexible pure nickel wire or screw pins. Wiring on a motor terminal board is possible.

#### Note

Please state the installation position (horizontal/vertical) in the order.



heat exchangers - hot water systems - district heating stations

## DMS - Electric - Water - Heater Type *Elektrawa*

Electric built-in heater, shell material steel ST 37.2 or stainless steel 1.4404/ANSI 316Ti, constructed for longterm running. Max. operating pressure 5 bar/steel 10 bar/stainless steel. Incl. insulation, painted steel sheet coated.

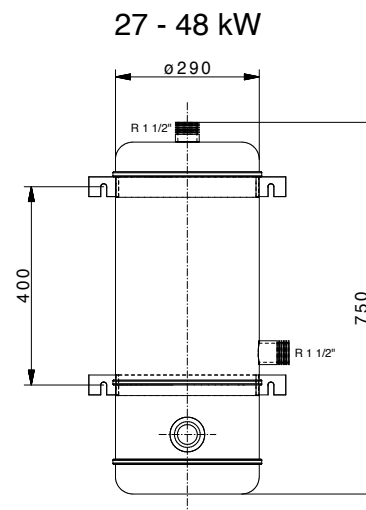
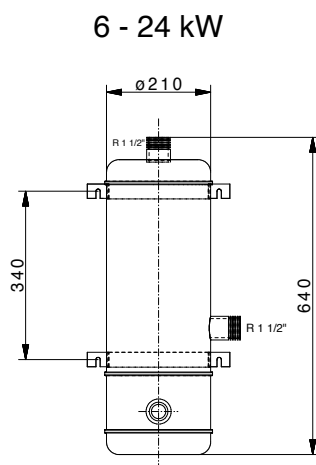
Appropriate number of high-quality tubular radiators are mounted on a flange plate.

Infinitely variable temperature control from 15 to 85°C  
59 to 185°F, with safety temperature limiter 105°C /  
221°F or 60°C / 140°F

Types ZA 15 - 48 kW with internal power steps. Connections 1 1/2" outside thread, on request others, return connection selective left or right  
Electric connection: 3 phase, 380 V, with contactor

| Type  | capacity | weight | diameter | height |
|-------|----------|--------|----------|--------|
|       | kW       | kg     | mm       |        |
| ZA 6  | 6        | 15,0   | 210      | 640    |
| ZA 9  | 9        | 15,0   | 210      | 640    |
| ZA 12 | 12       | 15,5   | 210      | 640    |
| ZA 15 | 15       | 16,0   | 210      | 640    |
| ZA 18 | 18       | 16,0   | 210      | 640    |
| ZA 24 | 24       | 16,5   | 210      | 640    |
| ZA 27 | 27       | 23,0   | 290      | 750    |
| ZA 36 | 36       | 24,0   | 290      | 750    |
| ZA 48 | 48       | 31,0   | 290      | 750    |

### Elektrawa





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| Position | Quantity |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | single price<br>Euro | total price<br>Euro |
|----------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------|
|          |          | <p><b>Calorifier</b></p> <p>Type : LAS – E _____</p> <p>constructed and built according to DIN 4753 part 1,<br/>horizontal designed,</p> <p>max. operating pressure 6 / 10 bar<br/>testpressure 8 / 13 bar<br/>max. operating temperature 95°C/203°F</p> <p>Cold water connection placed at deepest point of the<br/>storage tank to ensure 100% use of contents, incl. flow<br/>damper, easy removable and recyclable fleece insula-<br/>tion with plastic cover, all necessary connections and<br/>hand-hole 120/180 mm/man-hole DN 400 suitable for<br/>electric-flange-heater</p> <p>Without E-Anode<br/>Material: stainless steel 1.4571 / 1.4404 / ANSI 316Ti<br/>pickled and neutralized. Butt seam welded – no crease<br/>– production supervised by TUV</p> <p><b>Contents:</b> _____ l</p> <p><b>Connections:</b><br/>cold supply/hot water _____ “ FM<br/>circulation _____ “ FM<br/>thermometer _____ “ FM<br/>sensor _____ “ FM<br/>screwed-in-heater / flange heater<br/>_____ “ FM / DN _____ PN _____</p> <p><b>Measures:</b><br/><br/>diameter with insulation _____ mm<br/>diameter without insulation _____ mm<br/>total height ca. _____ mm<br/>length ca. _____ mm<br/>weight: ca. _____ kg</p> <p>insulation mounted / not mounted</p> |                      |                     |

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## heat exchangers - hot water systems - district heating stations

| Position | Quantity |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | single price<br>Euro | total price<br>Euro |
|----------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------|
|          |          | <p><b>ELHO screw-in-heater / flange heater</b></p> <p>with brazed heating elements<br/>maximum used till Kat. I according PED</p> <p>heated medium water</p> <p>to heating from water<br/>nominal capacity _____ kW = _____ kW<br/>nominal voltage 230 Volt 50 Hz /400 Volt 3ph</p> <p><b>dimensions:</b><br/>screw-in thread / flange _____ " DN<br/>immersion length thread _____ mm<br/>from that unheated _____ mm at thread / flange</p> <p><b>material:</b><br/>screw-in thread / flange stainless-steel<br/>heating elements incoloy 825</p> <p><b>electrical data:</b><br/>number of circuits _____<br/>protection class IP 54<br/>specific surface load _____ W/cm<sup>2</sup></p> |                      |                     |

## heat exchangers - hot water systems - district heating stations

| Position                    | Quantity            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | single price<br>Euro | total price<br>Euro |                             |                   |           |                  |             |                     |                      |                    |        |  |              |                     |                      |               |  |  |
|-----------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------|-----------------------------|-------------------|-----------|------------------|-------------|---------------------|----------------------|--------------------|--------|--|--------------|---------------------|----------------------|---------------|--|--|
|                             |                     | <p><b>Control cabinet</b></p> <p>for electrical liquid heating application<br/>for heating capacity _____x_____ kW<br/>capacity per circuit _____ kW<br/>nominal voltage 400 volt 3ph<br/>control voltage 230 Volt AC<br/>electronic temperature control (PMA)*/<br/>thermostatic temperature control and limiter*<br/>heating circuits switched by relay</p> <p>cabinet housing steel, powder coated<br/>colour RAL 7035 or similar<br/>size approx. _____ x _____ x _____ mm</p> <p>terminal connection<br/>brackets for wall mounting</p> <p>according to description and similar to wiring diagram</p> <p>approval and check according<br/>DIN/VDE 0113 and VBG 4</p> <p>documents<br/>standard 1-fold in english version</p> <p><b>Mounting accessories:</b></p> <table><tr><td>Venting</td><td>Flexvent Flamco</td></tr><tr><td>Ball valve (cold+hot water)</td><td>Pettinaroli 52TEU</td></tr><tr><td>Manometer</td><td>SUKU RFM 0-6 bar</td></tr><tr><td>Thermometer</td><td>0-120 °C SUKU BR 01</td></tr><tr><td>Low water protection</td><td>FEMA-Honeywell DWR</td></tr><tr><td>06-206</td><td></td></tr><tr><td>Safety valve</td><td>Honeywell SM 152 AA</td></tr><tr><td>Thermostat + Limiter</td><td>SAMSON 5348-1</td></tr></table> <p><b>Price:</b></p> <p><b>Package:</b><br/>Wrapped with transparent foil on one way wooden<br/>palett and wooden crate</p> | Venting              | Flexvent Flamco     | Ball valve (cold+hot water) | Pettinaroli 52TEU | Manometer | SUKU RFM 0-6 bar | Thermometer | 0-120 °C SUKU BR 01 | Low water protection | FEMA-Honeywell DWR | 06-206 |  | Safety valve | Honeywell SM 152 AA | Thermostat + Limiter | SAMSON 5348-1 |  |  |
| Venting                     | Flexvent Flamco     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |                     |                             |                   |           |                  |             |                     |                      |                    |        |  |              |                     |                      |               |  |  |
| Ball valve (cold+hot water) | Pettinaroli 52TEU   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |                     |                             |                   |           |                  |             |                     |                      |                    |        |  |              |                     |                      |               |  |  |
| Manometer                   | SUKU RFM 0-6 bar    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |                     |                             |                   |           |                  |             |                     |                      |                    |        |  |              |                     |                      |               |  |  |
| Thermometer                 | 0-120 °C SUKU BR 01 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |                     |                             |                   |           |                  |             |                     |                      |                    |        |  |              |                     |                      |               |  |  |
| Low water protection        | FEMA-Honeywell DWR  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |                     |                             |                   |           |                  |             |                     |                      |                    |        |  |              |                     |                      |               |  |  |
| 06-206                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |                     |                             |                   |           |                  |             |                     |                      |                    |        |  |              |                     |                      |               |  |  |
| Safety valve                | Honeywell SM 152 AA |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |                     |                             |                   |           |                  |             |                     |                      |                    |        |  |              |                     |                      |               |  |  |
| Thermostat + Limiter        | SAMSON 5348-1       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |                     |                             |                   |           |                  |             |                     |                      |                    |        |  |              |                     |                      |               |  |  |

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## heat exchangers - hot water systems - district heating stations

| Position | Quantity |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | single price<br>Euro | total price<br>Euro |
|----------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------|
|          |          | <p><b>Electric Heated Hot Water System consisting of:</b></p> <p><b>Hot-Water-Storage-Tank</b><br/>Type : LAS - E - _____ S0 - H/V</p> <p>constructed and built according to description and drawings, vertical/horizontal designed,</p> <p>max. operating pressure                  6 / 10 bar<br/>Testpressure                                 8 / 13 bar<br/>max. operating temperature              95°C/203°F</p> <p>recyclable fleece insulation with plastic cover</p> <p><b>Material:</b><br/>stainless steel 1.4571 / 1.4404 / ANSI 316TI pickled and neutralized. Butt seam welded – no crease production supervised by TÜV without E-Anodes</p> <p><b>Contents:</b> _____ l</p> <p><b>Connections:</b></p> <div style="margin-left: 40px;">loose flanges                               DN _____ PN 10<br/>_____ “ FM<br/><br/>_____ “ FM<br/>1 venting                                     _____<br/>_____ “ M<br/>1 drain                                         _____<br/>_____ “ FM</div> <p><b>Measures:</b></p> <p>diameter with insulation                 _____ mm<br/>diameter without insulation             _____ mm<br/>total height                                 ca. _____ mm<br/>length                                         ca. _____ mm<br/>weight:                                        ca. _____ kg</p> <p>insulation mounted/ not mounted</p> |                      |                     |

