

# Model EEHI-.S: Electric Water Heaters with internal Incoloy 825 heating elements for industrial & commercial applications

1,000 liters - 10,000 liters storage capacity; individual nominal ratings on request



Internal model type with Incoloy 825 heating elements

## Standard features:

- Vertical or horizontal type
- Stainless steel tank AISI 316 Ti or duplex stainless steel
- Incoloy 825 heating elements
- Fibre-fleece insulation with a robust PP exterior shell RAL7037, patented aluminum closure strips and patented self-fixing covering rosettes. Quick and easy installation, insulation with 100 mm. 100% recyclable, fire protection class B2 (B1 upon request).

## Standard accessories:

- Automatic air and vacuum vent including fast venting cock
- Dial thermometer 100 mm 0 - 120°C
- Non sacrificial electric anode
- Safety pressure relieve valve
- Pressure gauge 60 mm 0 - 16 bar
- Fitted inspection flange cover 200 mm
- Dielectric isolator kits for piping connections
- Individual over heating protection for each heating element with manual reset

## Optional

- Pressure switch
- Inspection flange 400 mm for tanks < 4,000 liters
- Volt free output contacts for BMS
- Non sacrificial electric anode (optional only for good water quality, otherwise mandatory) - without anode warranty is reduced from five to three years

## Operating pressure:

- 6, 10 or 16 bar
- Higher pressures on request

## Features

- Stainless steel construction
- Different control panels

## Benefits

- Compact design
- High performance
- Maximum hygiene
- Energy saving
- Certified and approved system (according to ISO 3834-2)

# Model types

## Type

- 1st digit: E = ECOTHERM
- 2nd digit: E = Electric Water Heater
- 3rd digit: R = Residential applications  
C = Commercial applications  
H = High storage capacity for industrial and commercial application  
L = Instantaneous heater
- 4th digit: E = External electric heater  
L = Internal electric heater

## C - Control

- 5th digit: B0 = Mains switch  
B1 = Simple basic control panel  
B2 = Basic control panel  
T1 = Microprocessor control panel PMA KS 40  
T2 = Microprocessor control panel ELC11

## E - Element

- 6th digit: S = Incoloy 825 heating elements  
C = Ceramic heating elements

## Key to model number

Type	C	E	kW	Vol	Opt	Press	Mat
<u>EE</u> _ _	_	_	_	_	_	_	_
1 2 3 4	5 6	7	8	9 10	11	12	

## kW

7th digit: Electric heater performance rating in kilowatt

## Vol - Volume

8th digit: Tank capacity in liters

## Opt - Options

- 9th digit: V = Vertical type  
H = Horizontal type
- 10th digit: A = Electric Anode

## Press - Pressure (higher pressure rating on request)

- 11th digit: 6 = 6bar operating pressure  
10 = 10bar operating pressure

## Mat - Material

- 11th digit: SS = Stainless Steel  
MS = Mild Steel

## Examples for using keymodel number



### EERI-B1S-9-400-VA-SS

ECOTHERM  
 Electric water heater for  
 Residential applications  
 Internal electric heater  
 Stainless Steel  
 Vertical type  
 Electric Anode  
 400 liters capacity  
 9 kW - Electric heater performance rating in kilowatt  
 B1 Basic simple control panel  
 S = Incoloy 825 elements



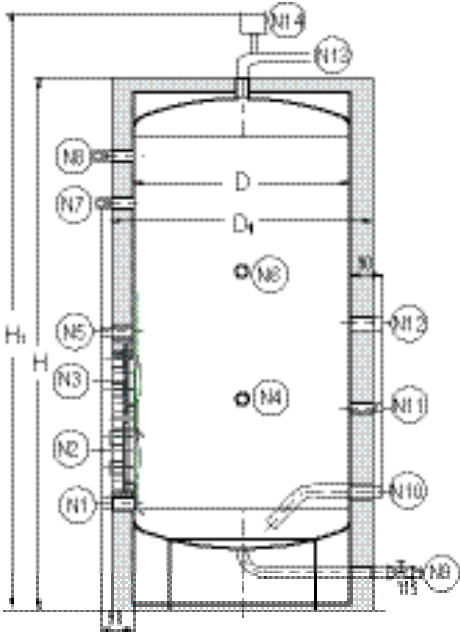
### EEHI-T2S-270-5000-HA-SS

ECOTHERM  
 Electric  
 High storage capacity water heater for industrial and commercial application  
 Internal electric heater  
 Stainless Steel  
 Horizontal type  
 Electric Anode  
 5000 liters capacity  
 270 kW - Electric heater performance rating in kilowatt  
 T2 = Microprocessor control panel with ELC11 Logic Control  
 S = Incoloy 825 elements

**EEHI-.S Models: Electric Water Heaters with internal Incoloy 825 heating elements and high storage capacity for industrial and commercial applications**  
 1,000 liters - 10,000 liters storage capacity

**Connection dimensions and heights**

**Tank capacity 1,000 - 10,000 liters**



**Dimensions & weight**

Electric Water Heater	Storage Capacity		Dimension				Weight empty
	Liters	US Gallons	D mm	D <sub>1</sub> mm	H mm	H <sub>1</sub> mm	appr. kg
EEHI 1000	1000	274.8	890	1110	1980	2160	147
EEHI 1500	1500	396.3	1050	1270	2025	2205	228
EEHI 2000	2000	528.4	1250	1470	2050	2230	371
EEHI 3000	3000	792.6	1350	1570	2615	2795	466
EEHI 4000	4000	1,056.8	1500	1720	2630	2810	557
EEHI 5000	5000	1,321.0	1600	1820	3100	3280	662
EEHI 6000	6000	1,585.2	1680	1820	3150	3330	787
EEHI 7000	7000	1,849.4	1680	1820	3650	3830	1151
EEHI 8000	8000	2,113.6	1680	1820	4200	4380	1235
EEHI 9000	9000	2,377.8	1900	2120	3800	4080	1210
EEHI 10000	10000	2,642.0	1900	2120	4200	4380	1320

Horizontal type dimensions are available on request

## Tabular of sample models (individual configurations are possible)

### Hot Water Storage 1000 liters (274.8 gallons), domestic water 10°/20°→60°C with Incoloy 825 heating elements

Model No.	Power rating kW	No. of elements	kW per element	Continuous hot water output liters/hour 10°C→60°C	Continuous hot water output liters/hour 20°C→60°C	Peak hot water output*** liters/hour 20°C→60°C	Nominal output* DIN 4708 NL1 Living units**
EEHI-BS-24-1000-VA	24	2	12	413	516	1504	16
EEHI-BS-36-1000-VA	36	3	12	619	774	1762	20
EEHI-BS-48-1000-VA	48	4	12	825	1032	2020	23
EEHI-BS-60-1000-VA	60	5	12	1032	1290	2278	29
EEHI-BS-72-1000-VA	72	6	12	1238	1548	2536	32
EEHI-BS-90-1000-VA	90	6	15	1548	1935	2923	39
EEHI-BS-105-1000-VA	105	7	15	1806	2257	3245	45
EEHI-BS-120-1000-VA	120	8	15	2064	2580	3568	51
EEHI-BS-135-1000-VA	135	9	15	2322	2902	3890	58

### Hot Water Storage 2000 liters (528.4 gallons), domestic water 10°/20°→60°C with Incoloy 825 heating elements

Model No.	Power rating kW	No. of elements	kW per element	Continuous hot water output liters/hour 10°C→60°C	Continuous hot water output liters/hour 20°C→60°C	Peak hot water output*** liters/hour 20°C→60°C	Nominal output* DIN 4708 NL1 Living units**
EEHI-BS-25-2000-VA	25	1	25	430	537	2437	28
EEHI-BS-50-2000-VA	50	2	25	860	1075	2975	38
EEHI-BS-75-2000-VA	75	3	25	1290	1612	3512	48
EEHI-BS-100-2000-VA	100	4	25	1720	2150	4050	59
EEHI-BS-125-2000-VA	125	5	25	2150	2687	4587	68
EEHI-BS-150-2000-VA	150	6	25	2580	3224	5124	79
EEHI-BS-175-2000-VA	175	7	25	3009	3762	5662	88
EEHI-BS-200-2000-VA	200	8	25	3439	4299	6199	100
EEHI-BS-225-2000-VA	225	9	25	3869	4837	6737	112
EEHI-BS-275-2000-VA	275	11	25	4729	5911	7811	132

### Hot Water Storage 5000 liters (1,321 gallons), domestic water 10°/20°→60°C with Incoloy 825 heating elements

Model No.	Power rating kW	No. of elements	kW per element	Continuous hot water output liters/hour 10°C→60°C	Continuous hot water output liters/hour 20°C→60°C	Peak hot water output*** liters/hour 20°C→60°C	Nominal output* DIN 4708 NL1 Living units**
EEHI-BS-25-5000-VA	25	1	25	430	537	5287	50
EEHI-BS-50-5000-VA	50	2	25	860	1075	5825	70
EEHI-BS-75-5000-VA	75	3	25	1290	1612	6362	88
EEHI-BS-100-5000-VA	100	4	25	1720	2150	6900	100
EEHI-BS-125-5000-VA	125	5	25	2150	2687	7437	112
EEHI-BS-150-5000-VA	150	6	25	2580	3224	7974	120
EEHI-BS-175-5000-VA	175	7	25	3009	3762	8512	132
EEHI-BS-200-5000-VA	200	8	25	3439	4299	9049	144
EEHI-BS-225-5000-VA	225	9	25	3869	4837	9587	156
EEHI-BS-275-5000-VA	275	11	25	4729	5911	10661	176

\*) Nominal output according to DIN 4708, T1 and T3. For further information see "Guide to hot water demand" page 40

\*\*) Living units: Nominal output type NL1 for living quarters - Further information see page 41

\*\*\*) Peak hot water output = Continuous hot water output + approx. 95% of tank capacity at 60°C

Higher capacities are available on request.