



**Strojirenský zkušební ústav, s.p.**  
**(Engineering Test Institute, Public Enterprise)**  
Product Certification Body  
Hudcova 424/56b, 621 00 Brno, Czech Republic

# CERTIFICATE

## B-30-00300-15-rev. 1

**Manufacturer:** Družstevní závody Dražice - strojírna s r.o.  
Dražice 69, 294 71 Benátky nad Jizerou, Czech Republic

**ID No.:** 45148465

**Products:**

1. Storage water heaters
2. Storage tanks

**Type designation:**

1. OKC ..., OKCE ..., OKCEV ..., TO, OKCV ...,  
OKH ..., OKHE ..., OKHEV ..., OKHV ...  
TO .. UP, TO .. IN, BTO .. UP, BTO .. IN  
SMART (OKC ..., OKCE ..., OKCEV ..., TO., OKCV ...,  
OKH ..., OKHE ..., OKHEV ..., OKHV ...)
2. NAD ..., NADO ..., NADE ..., NADOE ...  
for closer specification of the products see Pages 2 to 6

These products have been certified within the meaning of Section 10 of Act 22/1997 Coll., on technical requirements for products and on the amendment to certain Acts, as amended. The Engineering Test Institute, Public Enterprise, hereby certifies that the characteristics of the samples of the products concerned have been found conforming to the requirements specified in

Technical Construction Certificate STO-30-00561-16 of 2016-06-20.

Fulfilment of these requirements is considered fulfilment of the essential requirements of Government Regulation 163/2002 Coll., as amended.


The present Certificate has been issued on the basis of Final Report on Initial Product Type Testing 30-13164 of 2016-06-30, issued by the Engineering Test Institute, Public Enterprise. The period of validity of the Certificate is limited by the validity of the Final Report on Initial Product Type Testing, i.e. valid until 2017-03-31.

Certification scheme applied: Government Regulation 163/2002 Coll., Section 7.

The rules for using the Certificate are specified on Page 7.

Brno, 2016-06-30



  
Ing. Tomáš Hruška  
Director

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## Specification of types and versions:

### 1. Water heaters

#### Water heaters – OKC type series

Product	Designation example
<b>Combined storage water heaters</b>	
with heating element's area of 0.41 m <sup>2</sup>	suspended, vertical
OKC 80	suspended, vertical
with heating element's area of 0.7 m <sup>2</sup>	suspended, vertical
OKC 100, 125, 160, 180, 200, 220	OKC 100
with heating element's area of 1 m <sup>2</sup>	suspended, vertical
OKC 100, 125, 160, 180, 200, 220/1 m <sup>2</sup>	OKC 100 /1 m <sup>2</sup>
Volume: l 100, 125, 160, 180, 200, 220	
<b>Electric storage water heaters</b>	
	suspended, vertical
OKCE 50, 80, 100, 125, 160, 180, 200, 220	OKCE 200
Volume: l 50, 80, 100, 125, 160, 180, 200, 220	
<b>Electric storage water heaters</b>	
	S-stationary
OKCE 100, 125, 160, 200, 250, 300, 400, 500, 750, 800, 1000 S/2,2 kW	OKCE 200 S/2,2 kW
OKCE 160, 200, 250, 300, 400, 500, 750, 800, 1000 S/3-6 kW	OKCE 200 S/3-6 kW
OKCE 160, 200, 250, 300, 400, 500, 750, 800, 1000 S/5-9 kW	OKCE 1000 S/5-9 kW
OKCE 160, 200, 250, 300, 400, 500, 750, 800, 1000 S/8-12 kW	OKCE 1000 S/8-12 kW
OKCE 160, 200, 250, 300, 400, 500, 750, 800, 1000, 1500, 2000, 2500, 3000, 4000 S	OKCE 1000 S
OKCE 160, 200, 250, 300, 350, 400, 450, 500, 750, 800, 1000, 1500, 2000, 2500, 3000, 4000 S/1 MPa	OKCE 1000 S/1 MPa
Volume: l 100, 125, 160, 200, 250, 300, 350, 400, 450, 500, 750, 800, 1000, 1500, 2000, 2500, 3000, 4000	
<b>Combined storage water heaters</b>	
	horizontal
OKCV 100, 125, 160, 180, 200, 220	OKCV 200
Volume: l 100, 125, 160, 180, 200, 220	
<b>Electric storage water heaters</b>	
	horizontal
OKCEV 100, 125, 160, 180, 200, 220	OKCEV 200
Volume: l 100, 125, 160, 180, 200, 220	
<b>Electric storage water heaters</b>	
	suspended, vertical
TO 20, 30	TO 20
Volume: l 20, 30	
<b>Indirect storage water heaters</b>	
	horizontal
OKCV 100, 125, 160, 180, 200, 220 NTR	OKCV 200 NTR
Volume: l 100, 125, 160, 180, 200, 220	
<b>Indirect storage water heaters</b>	
	stationary
OKC 30, 40, 50, 60, 80, 100, 125, 160, 200, 250 NTR	OKC 200 NTR/BP
OKC 200, 250 NTRR	OKC 200 NTR/BP
OKC 30, 40, 50, 60, 80, 100, 125, 160, 200, 250, 300, 350, 400, 450, 500, 750, 1000 NTR/BP	OKC 200 NTRR/BP
OKC 200, 250, 300, 350, 400, 450, 500, 750, 1000 NTRR/BP	



OKC	200, 250, 300, 400, 500, 750, 800, 1000, 1500, 2000, 2500, 3000, 4000 NTR/1 MPa	OKC 500 NTR/1 MPa
OKC	200, 250, 300, 400, 500, 750, 800, 1000, 1500, 2000, 2500, 3000, 4000 NTRR/1 MPa	OKC 500 NTRR/1 MPa
Volume: l	30, 40, 50, 60, 80, 100, 125, 160, 200, 250, 300, 350, 400, 450, 500, 750, 1000, 1500, 2000, 2500, 3000, 4000	
<b>Indirect storage water heaters – upper outlets</b> stationary		
OKC	80, 100, 125, 160, 200, 250 NTR/HV	OKC 200 NTR/HV
Volume: l	80, 100, 125, 160, 200, 250	
<b>Indirect storage water heaters</b> Z-suspended, vertical		
OKC	30, 40, 50, 60, 80, 100, 125, 160, 200 NTR/Z	OKC 200 NTR/Z
Volume: l	30, 40, 50, 60, 80, 100, 125, 160, 200	
<b>Indirect storage water heaters</b> stationary		
with flange and auxiliary electric heating unit		
OKCE	80, 100, 125, 160, 200, 250, 300 NTR/2,2 kW	OKCE 200 NTR/2,2 kW
OKCE	200, 250, 300 NTRR/2,2 kW	OKCE 200 NTRR/2,2 kW
OKCE	300 NTR/ 3-6 kW	OKCE 300 NTR/ 3-6 kW
OKCE	300 NTRR/3-6 kW	OKCE 300 NTRR/3-6 kW
Volume: l	80, 100, 125, 160, 200, 250, 300	
<b>Indirect storage water heaters</b> stationary		
OKC	200, 250, 300, 400, 500, 750, 1000 NTR/SOLAR SET	OKC 200 NTR/SOLAR SET OKC 200 NTRR/SOLAR SET
OKC	200, 250, 300, 400, 500, 750, 1000 NTRR/SOLAR SET	
OKC	160, 200, 250, 300, 350, 400, 450, 500 NTR/SOL	OKC 500 NTR/SOL OKC 500 NTRR/SOL
OKC	160, 200, 250, 300, 350, 400, 150, 500 NTRR/SOL	
Volume: l	160, 200, 250, 300, 350, 400, 450, 500, 750, 1000	
<b>Indirect storage water heaters</b> stationary		
OKC	160, 200, 250, 300, 400, 500 NTR/HR	OKC 200 NTR/HR OKC 200 NTRR/HR
OKC	160, 200, 250, 300, 400, 500 NTRR/HR	
Volume: l	160, 200, 250, 300, 400, 500	
<b>Indirect storage water heaters</b> stationary		
OKC	160, 200, 250, 300, 400, 500, 600, 750, 800, 900, 1000, 1250, 1500 NTR/HP	OKC 200 NTR/HP
Volume: l	160, 200, 250, 300, 400, 500, 600, 750, 800, 900, 1000, 1250, 1500	

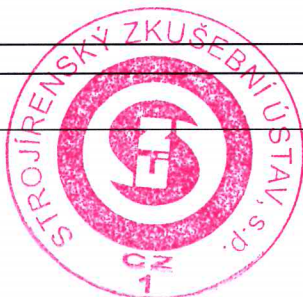
OKC Heater.... NTR(NTRR)/HR represents a combined of a water heater (above) and storage tank (hydraulic distributor - HR, below).

The volume of storage tank is 50, 80, 100, 120, 160, 200, 250, 300 l.

OKC Heater labels.... NTR (NTRR)/HR specify the storage heater volume/storage tank volume, e.g. OKC 200NTR/HR100.

#### Water heaters - OKH type series

Product	Designation example
<b>Combined storage water heaters</b> with exchanger's area of 0.41 m <sup>2</sup>	OKH 80
OKH 80 suspended, vertical	
with exchanger's area of 0.7 m <sup>2</sup> suspended, vertical	





Product	Designation example
OKH 100, 125, 160, 180, 200, 220 with exchanger's area of 1 m <sup>2</sup>	OKH 100
suspended, vertical	
OKH 100, 125, 160, 180, 200, 220/1 m <sup>2</sup>	OKH 100/1 m <sup>2</sup>
Volume: l 80, 100, 125, 160, 180, 200, 220	
<b>Electric storage water heaters</b>	suspended, vertical
OKHE 50, 80, 100, 125, 160, 180, 200, 220	OKHE 200
Volume: l 50, 80, 100, 125, 160, 180, 200, 220	
<b>Electric storage water heaters</b>	S-stationary
OKHE 80, 100, 125, 160, 200, 250 S/2,2 kW	OKHE 200 S/2,2 kW
OKHE 80, 100, 125, 160, 200, 250 S/3-6 kW	OKHE 200 S/3-6 kW
Volume: l 80, 100, 125, 160, 200, 250	
<b>Combined storage water heaters</b>	horizontal
OKHV 100, 125, 160, 180, 200, 220	OKHV 200
Volume: l 100, 125, 160, 180, 200, 220	
<b>Electric storage water heaters</b>	horizontal
OKHEV 100, 125, 160, 180, 200, 220	OKHEV 200
Volume: l 100, 125, 160, 180, 200, 220	
<b>Indirect storage water heaters</b>	stationary
OKH 80, 100, 125, 160, 200, 250 NTR/HV	OKH 100 NTR/HV
Volume: l 80, 100, 125, 160, 200, 250	
<b>Indirect storage water heaters</b>	horizontal
OKHV 100, 125, 160, 180, 200, 220 NTR	OKHV 200 NTR
Volume: l 100, 125, 160, 180, 200, 220	
<b>Indirect storage water heaters</b>	stationary
OKH 30, 40, 50, 60, 80, 100, 125, 160, 200, 250 NTR	OKH 200 NTR
OKH 200, 250 NTRR	OKH 200 NTRR
Volume: l 30, 40, 50, 60, 80, 100, 125, 160, 200, 250	
<b>Indirect storage water heaters</b>	stationary
OKH 100, 125, 160, 200, 250 NTR/BP	OKH 200 NTR/BP
OKH 200, 250, NTRR/BP	OKH 200 NTRR/BP
Volume: l 100, 125, 160, 200, 250	
<b>Indirect storage water heaters</b>	Z-suspended, vertical
OKH 30, 40, 50, 60, 80, 100, 125, 160, 200 NTR/Z	OKH 200 NTR/Z
Volume: l 30, 40, 50, 60, 80, 100, 125, 160, 200	
<b>Indirect storage water heaters</b>	stationary
Auxiliary electric heating unit	
OKHE 80, 100, 125, 160, 200, 250 NTR/2,2 kW	OKHE 200 NTR/2,2 kW
OKHE 200, 250, NTRR/2,2 kW	OKHE 200 NTRR/2,2 kW
Volume: l 80, 100, 125, 160, 200, 250	

TO 5 UP, TO 10 UP, TO 15 UP – Pressure storage water heaters – connection above the consumption point;  
Volume: 5, 10, 15 l

TO 5 IN, TO 10 IN, TO 15 IN, TO 30 IN – Pressure storage water heaters – connection below the consumption point;  
Volume: 5, 10, 15, 30 l

BTO 5 UP, BTO 10 UP – Pressureless storage water heaters – connection above the consumption point;  
Volume: 5, 10 l

BTO 5 IN, BTO 10 IN – Pressureless storage water heaters – connection below the consumption point;  
Volume: 5, 10 l

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**Water heaters – SMART design**

<b>Product</b>	<b>Designation example</b>
<b>Combined storage water heaters</b>	
with heating element's area of 0.7 m <sup>2</sup> suspended, vertical	
OKC 80, 100, 125, 160, 180, 200, 220	OKC 100-SMART
with heating element's area of 1 m <sup>2</sup> suspended, vertical	
OKC 100, 125, 160, 180, 200, 220/1 m <sup>2</sup>	OKC 100/1 m <sup>2</sup> -SMART
Volume: l 100, 125, 160, 180, 200, 220	
<b>Electric storage water heaters</b> suspended, vertical	
OKCE 50, 80, 100, 125, 160, 180, 200, 220	OKCE 200-SMART
Volume: l 50, 80, 100, 125, 160, 180, 200, 220	
<b>Electric storage water heaters</b> S-stationary	
OKCE 100, 125, 160, 200, 250, 300, 400, 500, 750, 800, 1000 S/2,2 kW	OKCE 200 S/2,2 kW-SMART
OKCE 160, 200, 250, 300, 400, 500, 750, 800, 1000 S/3-6 kW	OKCE 200 S/3-6 kW-SMART
OKCE 160, 200, 250, 300, 400, 500, 750, 800, 1000 S/5-9 kW	OKCE 1000 S/5-9 kW-SMART
OKCE 160, 200, 250, 300, 400, 500, 750, 800, 1000 S/8-12 kW	OKCE 1000 S/8-12 kW-SMART
OKCE 200, 250, 300, 400, 500, 750, 800, 1000, 1500, 2000, 2500, 3000, 4000 S	OKCE 1000 S-SMART
OKCE 200, 250, 300, 400, 500, 750, 800, 1000, 1500, 2000, 2500, 3000, 4000 S/1 MPa	OKCE 1000 S/1 MPa-SMART
Volume: l 100, 125, 160, 200, 250, 300, 400, 500, 750, 800, 1000, 1500, 2000, 2500, 3000, 4000	
<b>Combined storage water heaters</b> horizontal	
OKCV 100, 125, 160, 180, 200, 220	OKCV 200-SMART
Volume: l 100, 125, 160, 180, 200, 220	
<b>Electric storage water heaters</b> horizontal	
OKCEV 100, 125, 160, 180, 200, 220	OKCEV 200-SMART
Volume: l 100, 125, 160, 180, 200, 220	
<b>Electric storage water heaters</b> suspended, vertical	
TO 20, 30	TO 20-SMART
Volume: l 20, 30	
<b>Indirect storage water heaters</b> stationary	
with flange and auxiliary electric heating unit	
OKCE 80, 100, 125, 160, 200, 250, 300 NTR/2,2 kW	OKCE 200 NTR/2,2 kW-SMART
OKCE 200, 250, 300 NTRR/2,2 kW	OKCE 200 NTRR/2,2 kW-SMART
OKCE 300 NTR/ 3-6 kW	OKC 300 NTR/ 3-6 kW-SMART
OKCE 300 NTRR/3-6 kW	OKC 300 NTRR/3-6 kW-SMART
Volume: l 80, 100, 125, 160, 200, 250, 300	
<b>Combined storage water heaters</b>	
with exchanger's area of 0.41 m <sup>2</sup> suspended, vertical	
OKH 80	OKH 80-SMART
with exchanger's area of 0.7 m <sup>2</sup> suspended, vertical	
OKH 80, 100, 125, 160, 180, 200, 220	OKH 100-SMART
with exchanger's area of 1 m <sup>2</sup> suspended, vertical	
OKH 80, 100, 125, 160, 180, 200, 220/1 m <sup>2</sup>	OKH 100/1 m <sup>2</sup> -SMART





Product	Designation example
Volume: l 80, 100, 125, 160, 180, 200, 220	
<b>Electric storage water heaters</b> suspended, vertical	OKHE 200-SMART
OKHE 50, 80, 100, 125, 160, 180, 200, 220	
Volume: l 50, 80, 100, 125, 160, 180, 200, 220	
<b>Electric storage water heaters</b> S-stationary	OKHE 200 S/2,2 kW-SMART OKHE 200 S/3-6 kW-SMART
OKHE 80, 100, 125, 160, 200, 250 S/2,2 kW	
OKHE 80, 100, 125, 160, 200, 250 S/3-6 kW	
Volume: l 80, 100, 125, 160, 200, 250	
<b>Combined storage water heaters</b> horizontal	OKHV 200-SMART
OKHV 100, 125, 160, 180, 200, 220	
Volume: l 100, 125, 160, 180, 200, 220	
<b>Electric storage water heaters</b> horizontal	OKHEV 200-SMART
OKHEV 100, 125, 160, 180, 200, 220	
Volume: l 100, 125, 160, 180, 200, 220	
<b>Indirect storage water heaters</b> stationary	OKHE 200 NTR/2,2 kW-SMART OKHE 200 NTRR/2,2 kW-SMART
Auxiliary electric heating unit	
OKHE 80, 100, 125, 160, 200, 250 NTR/2,2 kW	
OKHE 200, 250, NTRR/2,2 kW	
Volume: l 80, 100, 125, 160, 200, 250	

## 2. Storage tanks

Product	Designation example
NAD 50, 80, 100, 150, 200, 250, 300, 350, 400, 450, 500, 600, 700, 750, 800, 900, 1000, 1250, 1500, 2000, 2500, 3000, 4000 v1 (v2 – v20)	stationary design versions: v1 to v20  NAD 400  NADO 400  NADE 400  NADOE 400  NADS 400  NADOS 400
NADO 50, 80, 100, 150, 200, 250, 300, 350, 400, 450, 500, 600, 700, 750, 800, 900, 1000, 1250, 1500, 2000, 2500, 3000, 4000 v1 (v2 – v20)	
NADE 50, 80, 100, 150, 200, 250, 300, 350, 400, 450, 500, 600, 700, 750, 800, 900, 1000, 1250, 1500, 2000, 2500, 3000, 4000 v1 (v2 – v20)	
NADOE 50, 80, 100, 150, 200, 250, 300, 350, 400, 450, 500, 600, 700, 750, 800, 900, 1000, 1250, 1500, 2000, 2500, 3000, 4000 v1 (v2 – v20)	
NADS 50, 80, 100, 150, 200, 250, 300, 350, 400, 450, 500, 600, 700, 750, 800, 900, 1000, 1250, 1500, 2000, 2500, 3000, 4000 v1 (v2 – v20)	
NADOS 50, 80, 100, 150, 200, 250, 300, 350, 400, 450, 500, 600, 700, 750, 800, 900, 1000, 1250, 1500, 2000, 2500, 3000, 4000 v1 (v2 – v20)	
Volume: l 50, 80, 100, 150, 200, 250, 300, 350, 400, 450, 500, 600, 700, 750, 800, 900, 1000, 1250, 1500, 2000, 2500, 3000, 4000 v1 (v2 – v20)	

Versions v1 to v20 are different in their inside diameter parameters and also in the sense of their positioning of the connecting sleeves according to the customer's requirements.

NADO and NADOE tanks serve, at the same time, to heating the service water through the built-in tank (a tank inside of another tank) in the interior area. The tank's volume is 10, 15, 20, 25, 35, 45, 60, 100, 120, 140, 160, 200, 250, 300, 350, 400 l, according to the storage tank's volume.

NADO and NADOE tanks' labels specify the total volume/volume of the storage tank for service water, e.g. NADO(NADOE) 1000/140 v2 or 2000/400 v4.



#### RULES FOR USING THE CERTIFICATE:

Compliance with the essential requirements laid down by Government Regulation 163/2002 Coll., as amended, has been derived from the compliance with the requirements specified in the Technical Construction Certificate. Amendment or issuance of new harmonized or determined standards relating to the certified products or expiry of the validity period of the Technical Construction Certificate may alter the facts under which the present Certificate has been issued. In that case, the present Certificate usability for purposes of issuing the declaration of conformity of the products being placed on the market will have to be reviewed.

The Certificate may only be used as a certificate for the products specified on Pages 1 to 6 hereof. This also applies to its use in advertising, promotional and commercial materials. Unauthorised or deceitful use of the Certificate may be sanctioned (Section 19 of Act 22/1997 Coll. on technical requirements for products and on amendments to some Acts, as amended).

It is prohibited to change, amend or overwrite the data contained in the Certificate.

The Certificate may not be used for the products changed without consent of the Engineering Test Institute, Public Enterprise, in such a way that conformity with the technical requirements specified on Page 1 has been affected.

