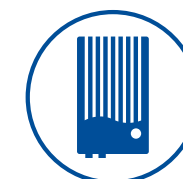


Electric boiler specialist  
***Uhlan Matthew*** proposes:



Flow heater

power 11-13 kW



power 18 kW



power 21 kW



power 24 kW





The boiler can work with any voltage-free (0V) wired and wireless room controller



Green energy  
clean air program

## Basic automation LED Ensign



power	4/6 kW	9 kW	12 kW
modulated 11/13 kW			
Ensign - code	135706	135709	135712
modulated 18/21/24 kW			
Ensign - code	135806	135809	135812

## Advanced automation LCD Lieutenant




included in the price of the boiler: wired control




power	4/6 kW	9 kW	12 kW
flow heater power modulated 11/13 kW			
Lieutenant - code	138706	138709	138712
heater power modulated 18/21/24 kW			
Lieutenant - code	138806	138809	138812


energy efficiency class D




Equipment:




Advanced control system




Electronic pressure gauge




Safety valve vent




Electric heater 4/6, 9, 12 kW







Flow heater



Central heating expansion vessel.



Pump c.o.

<p>power 11-13 kW</p>  <p>wydajność przy <math>\Delta t = 30^{\circ}\text{C}</math> 5,7 - 6,9 l/min</p>	<p>power 18 kW</p>  <p>wydajność przy <math>\Delta t = 30^{\circ}\text{C}</math> 9,2 l/min</p>	<p>power 21 kW</p>  <p>wydajność przy <math>\Delta t = 30^{\circ}\text{C}</math> 10,7 l/min</p>	<p>power 24 kW</p>  <p>wydajność przy <math>\Delta t = 30^{\circ}\text{C}</math> 12,2 l/min</p>
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### OPTION Lieutenant



Module + web application  
code 100004

Controls all boiler functions:  
- monitoring of all temperatures  
- remote possibility of temperature changes  
- viewing of temperature graphs

### OPTION Lieutenant

Radio control 3 variants to choose from



radio room and weather control

code 100009



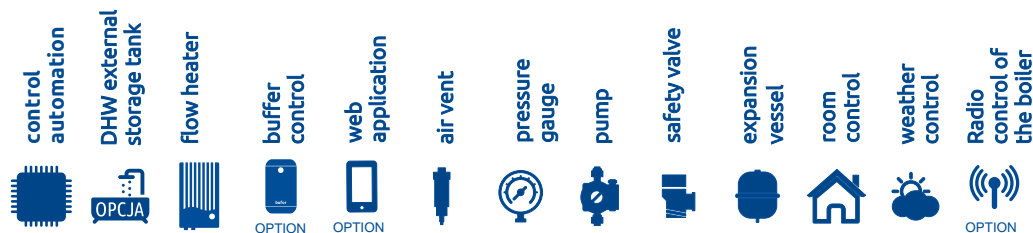
room-only radio control

code 100010



radio control only weather

code 100011



Electric heating boilers - LCD Advanced Automation													
Kapitan	●	●	○	●	●	●	●	●	○	●	●	●	●
Colonel	●	●	○	●	●	●	●	●	●	●	●	●	●
Lieutenant	●	○	●	●	●	●	●	●	●	●	●	●	●
Commander	●	●	○	●	●	●	●	●	●	●	●	●	●
Electric boilers - LED basic automation													
Corporal	●	●	○	○	○	●	●	○	●	○	○	○	○
Sergeant	●	●	○	○	○	●	●	●	○	○	○	○	○
Major	●	●	○	○	○	●	●	●	●	○	○	○	○
Ensign	●	○	●	○	○	●	●	●	●	○	○	○	○
Hussar	●	●	○	○	○	●	●	●	●	○	○	○	○

boiler Lieutenant / Ensign						flow heater			
Protection selection	4 kW	4 kW	6 kW	9 kW	12 kW	13 kW	18 kW	21 kW	24 kW
	1 phase	2 phases	3 phases	3 phases	3 phases	3 phases	3 phases	3 phases	3 phases
Fuse (A)	1 x 20	2 x 10	3 x 10	3 x 16	3 x 20	3 x 20	3 x 32	3 x 32	3 x 40
Supply cable (mm²)	3 x 4	5 x 2.5	5 x 2.5	5 x 2.5	5 x 4	5 x 4	5 x 6	5 x 6	5 x 10

\* The exact cross-section of the supply wire is selected by an electrician based on an analysis of local conditions.

Tabela doboru mocy kotla			50m²	75m²	100m²	125m²	150m²	200m²	250m²
A+	Energy efficient building 20-25cm of insulation EUco approx. 50kWh/m²/year - approx. 40W/m²		4 kW	4 kW	6 kW	6 kW	9 kW	9 kW	12 kW
A									
B	Standard building 10-15cm of insulation EUco approx. 90kWh/m²/year - approx. 70W/m²		4 kW	6 kW	9 kW	9 kW	12 kW		
C									
D	Energy-intensive building 0-5cm of insulation EUco approx. 150kWh/m²/year - approx. 120W/m²		6 kW	9 kW	12 kW				
E									



**built-in instantaneous water heater**

I variant: 11/13 kW  
II variant: 18/21/24 kW

power 11-13 kW



efficiency at  $\Delta t = 30^\circ\text{C}$   
5,7 - 6,9 l/min

power 18 kW



efficiency at  $\Delta t = 30^\circ\text{C}$   
9,2 l/min

power 21 kW



efficiency at  $\Delta t = 30^\circ\text{C}$   
10,7 l/min

power 24 kW



efficiency at  $\Delta t = 30^\circ\text{C}$   
12,2 l/min

