

# TEKLA®

TO HEAT.

## PRODUCT CATALOG 2020

---

New Heating **COMFORT**



## ECOBOILERS

[teklakotly.pl](http://teklakotly.pl)

Valid from 01.06.2020

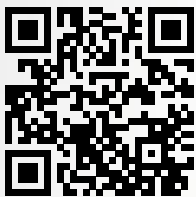


# KOMFORT

MODEL 12, 18, 23

Pellet

ECO desogn	5 class	5 years	6 mm	90,6 %
ECODESIGN 2020	ACC TO NORM EN 303-5:2012	GUARANTEE FOR THE EXCHANGER	EXCHANGER MADE OF STEEL	HEAT EFFICIENCY OF THE BOILER



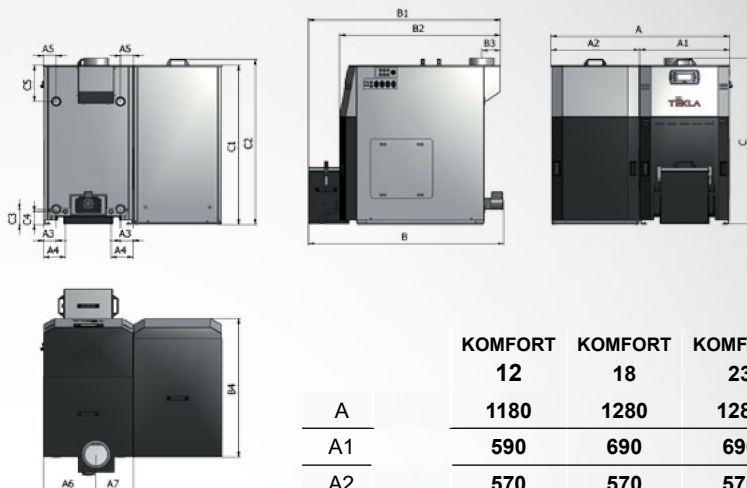
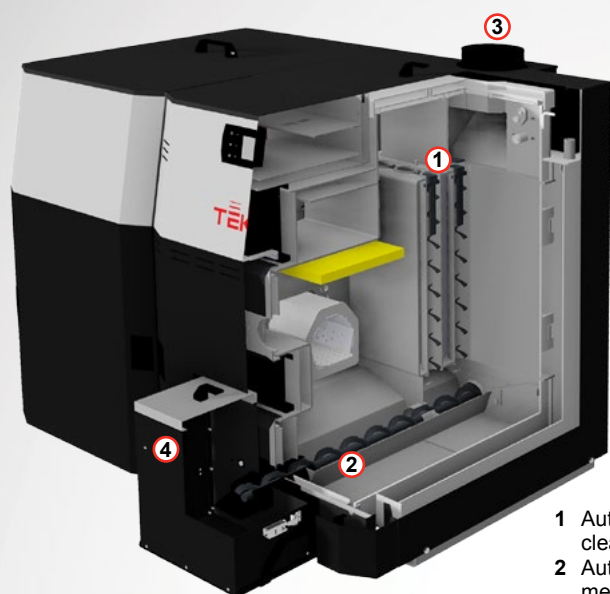
FIREBLAST series burner  
with automatic cleaning

LCD boiler controller  
ESTYMA TOUCH as standard



THE PHOTOS CONTAINED IN THE CATALOG ARE FOR INFORMATIONAL PURPOSES ONLY.  
THE PRESENTED MODEL OF THE BOILER KOMFORT 18

The KOMFORT series of proprietary, automatic boilers has been created to minimise the necessary user operation of the boiler. As a standard, the boiler is equipped with automatic ash removal and heat exchanger cleaning which are performed at appropriate intervals. Its compact size, in particular, its height and the flue gas outlet in the upper part of the boiler give many possibilities to install it even in a small boiler room, and its operation is reduced to a minimum.



- 1 Automatic exchanger cleaning mechanism
- 2 Automatic ash removal mechanism
- 3 The flue at the back of the boiler points upwards
- 4 Ash container

#### Boiler advantages:

- class 5 in performance and pollutants emission according to PN-EN 303-5:2012 standard and Ecodesign
- automatic heat exchanger cleaning and ash removal
- low energy consumption – A+ energy-efficiency rating
- 5-year warranty for boiler heat exchanger tightness,
- boiler housing and the tank are entirely covered with powder paint
- two ways of fuel level indication (with sensor - optional) or by calculation as standard
- possible connection of wireless VIDE Room RG room sensor (option)
- entirely automatic boiler operation (automatic startup, shutdown, and cleaning)
- flame control via photo sensor
- complete boiler operation modulation - third-generation Fuzzy Logic
- learning EILC algorithm
- control via internet by VIDE Net module (option)
- control of two heating and DHW circuits and buffer
- possibility to extend the control module up to 4 heating circuits
- setting the operating time of all heating circuits independently - so-called "time schedule"

	KOMFORT 12	KOMFORT 18	KOMFORT 23
A	1180	1280	1280
A1	590	690	690
A2	570	570	570
A3	85	85	85
A4	145	145	145
A5	85	85	85
A6	340	345	345
A7	240	345	345
B	1285	1285	1285
B1	1240	1240	1240
B2	1040	1040	1040
B3	120	120	120
B4	935	935	935
C	1120	1120	1320
C1	1075	1075	1275
C2	1125	1125	1325
C3	105	105	105
C4	90	90	90
C5	250	250	250

PARAMETER	SI	KOMFORT 12	KOMFORT 18	KOMFORT 23
NOMINAL POWER	kW	12	18	23
EFFICIENCY	%	89	90,6	90,6
POWER REGULATION SCOPE	kW	3,6 ÷ 12	5,4 ÷ 18	6,9 ÷ 23
EMISSION CLASS	-	5	5	5
ECODESIGN	-	YES	YES	YES
ENERGY EFFICIENCY CLASS	-	A+	A+	A+
WEIGHT	kg	484	534	605
HEATING AREA OF THE BOILER	m <sup>2</sup>	1,9	2,5	3,2
WATER CAPACITY	dm <sup>3</sup>	110	130	190
CHIMNEY DRAUGHT	Pa		10 ÷ 20	
MAX. WATER WORKING PRESSURE	bar		1,5	
CONNECTIONS OF HEATING AND RETURN WATER PBOILER	Js		G 1 ½"	
DIMENSIONS OF THE BOILER WITH THE STORAGE BIN	WIDTH	mm	1155	1255
	DEPTH	mm	1260	1260
	HEIGHT*	mm	1120	1120
DIAMETER OF FUMES OUTLET	mm		160	
HEIGHT TO THE AXIS OF THE FLUE*	mm	1120	1120	1320
STORAGE BIN VOLUME	dm <sup>3</sup>	115	115	180
POWER CONSUMPTION MOTOREDUCTOR/BLOWER/IGNITER	W		100/45/300	

\* Boiler height can also be adjusted using the included foot.

#### BASE EQUIPMENT

- automatic exchanger cleaning
- automatic ash removal
- ash container
- ceramic catalysts
- ESTYMA IGNEO TOUCH controller
- outdoor temperature sensor
- boiler cleaning equipment
- feet for adjusting the boiler level

#### ADDITIONAL OPTION

- exhaust thermometer
- four-way valve mixing
- mixing valve servomotor
- dual-functional thermostatic cool valve DBV-1
- VIDE ROOM - room regulator
- VIDE NET - control via the internet
- SMARTFLOW - draft regulator



# DRACO BIO COMPACT FII

MODEL 12, 18, 23

Pellet

ECO design	5 class	5 years	6 mm	91 %
ECODESIGN 2020	ACC TO NORM EN 303-5:2012	GUARANTEE FOR THE EXCHANGER	EXCHANGER MADE OF STEEL	HEAT EFFICIENCY OF THE BOILER



FIREBLAST series burner with automatic cleaning



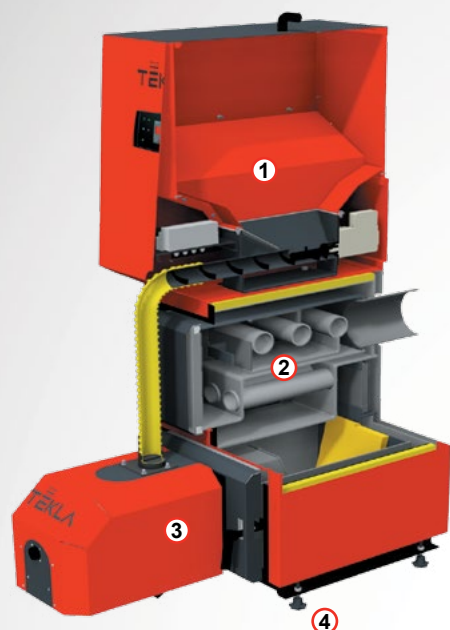
LCD boiler controller ESTYMA TOUCH as standard



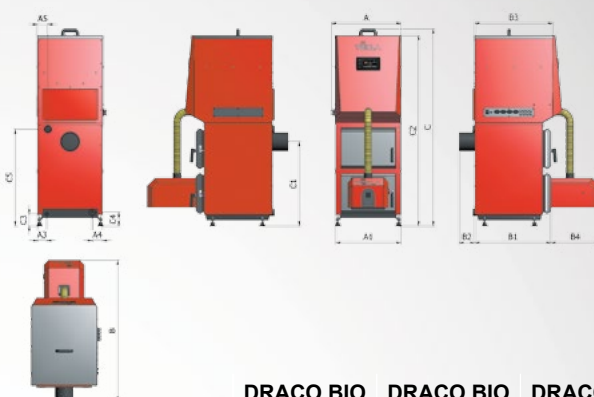
THE PHOTOS CONTAINED IN THE CATALOG ARE FOR INFORMATIONAL PURPOSES ONLY.  
THE PRESENTED MODEL OF THE BOILER DRACO BIO COMPACT FII 12

Draco Bio Compact F II is an automatic boiler for burning class A, A1 and B biomass in the pellet form with a diameter of 6 mm. The fuel tank located in the upper part of the boiler allows reducing its external dimensions, which greatly facilitates installation even in small boiler rooms. The low height of the boiler makes it easier for the user to load the fuel. Each boiler has an option of increasing the tank capacity thanks to a so-called "extension" allowing for capacity increase by 90 l. The Fireblast II burner with amovable grate used and the advanced ESTYMA IGNEO TOUCH controller with a colour touch screen provide high use comfort of the boiler, limiting its operation to the necessary minimum.





- 1 Fuel tank located above the exchanger
- 2 Fire tube and plate heat exchanger
- 3 Automatic pellet burner with a movable grate
- 4 Feet for adjusting the boiler level



#### Boiler advantages:

- class 5 in performance and pollutants emission according to PN-EN 303-5:2012 standard and Ecodesign
- 5-year warranty for boiler heat exchanger tightness
- possibility of change the side of the door
- boiler housing and the hopper are entirely covered with powder paint
- possibility of enlarging the fuel tank by installing the attached extension
- easy and fast operation and maintenance
- possibility to connect a VIDE Room room thermostat (extra fee)
- completely automatic operation of the boiler (automatic ignition and extinguishing of a burner)
- control of two circuits with mixing valves and DHW circuit
- return temperature adjustment via controlling the actuator on the 4-way valve
- possibility of connecting a room thermostat
- learning EILC algorithm
- full modulation of boiler operation - Fuzzy Logic 3-rd generation
- auto-configuration of sensors and functions
- extensive statistics

	DRACO BIO COMPACT F II 12	DRACO BIO COMPACT F II 18	DRACO BIO COMPACT F II 23
A	575	675	675
A1	535	635	635
A3	75	75	75
A4	85	85	85
A5	85	85	85
B	1230	1230	1330
B1	645	645	745
B2	75	75	75
B3 [mm]	640	640	740
B4	510	510	510
C	1550 (1750)	1550 (1750)	1550 (1750)
C1	640	640	645
C2	1510 (1710)	1510 (1710)	1510 (1710)
C3	55	55	55
C4	75	75	75
C5	745	745	745

PARAMETER	SI	DRACO BIO COMPACT F II 12	DRACO BIO COMPACT F II 18	DRACO BIO COMPACT F II 23
NOMINAL POWER	kW	12	18	23
EFFICIENCY	%	89	91	89
POWER REGULATION SCOPE	kW	3,6 ÷ 12	5,4 ÷ 18	6,9 ÷ 23
EMISSION CLASS	-	5	5	5
ECODESIGN	-	YES	YES	YES
ENERGY EFFICIENCY CLASS	-	A+	A+	A+
WEIGHT	kg	284	317	357
HEATING AREA OF THE BOILER	m <sup>2</sup>	1,9	2,4	3,0
WATER CAPACITY	dm <sup>3</sup>	68	75	93
CHIMNEY DRAUGHT	Pa		8 ÷ 17	
MAX. WATER WORKING PRESSURE	bar		1,5	
CONNECTIONS OF HEATING AND RETURN WATER PBOILER	Js		G 1 ½"	
DIMENSIONS OF THE BOILER WITH THE STORAGE BIN	WIDTH	mm	575	675
	DEPTH	mm	1230	1330
	HEIGHT*	mm	1550 (1750)	1550 (1750)
DIAMETER OF FUMES OUTLET	mm	127	145	160
HEIGHT TO THE AXIS OF THE FLUE*	mm	640	640	645
STORAGE BIN VOLUME	dm <sup>3</sup>	130 (190)	150 (220)	180 (270)
POWER CONSUMPTION MOTOREDUCTOR/BLOWER/IGNITER	W		50/45/300	

\* Boiler height can also be adjusted using the included foot.

#### BASE EQUIPMENT

- ceramic catalysts
- ESTYMA IGNEO TOUCH controller
- boiler cleaning equipment
- feet for adjusting the boiler level
- extension to increase the capacity of the tank
- outdoor temperature sensor

#### ADDITIONAL OPTION

- exhaust thermometer
- four-way valve mixing
- mixing valve servomotor
- dual-functional thermostatic cool valve DBV-1
- VIDE ROOM - room regulator
- VIDE NET - control via the internet



# DRACO D BIO

MODEL 15, 22, 30, 50

Pellet

ECO design	5 class	5 years	8 mm	91 %
ECODESIGN 2020	ACC TO NORM EN 303-5:2012	GUARANTEE FOR THE EXCHANGER	EXCHANGER MADE OF STEEL	HEAT EFFICIENCY OF THE BOILER



FIREBLAST series burner with automatic cleaning

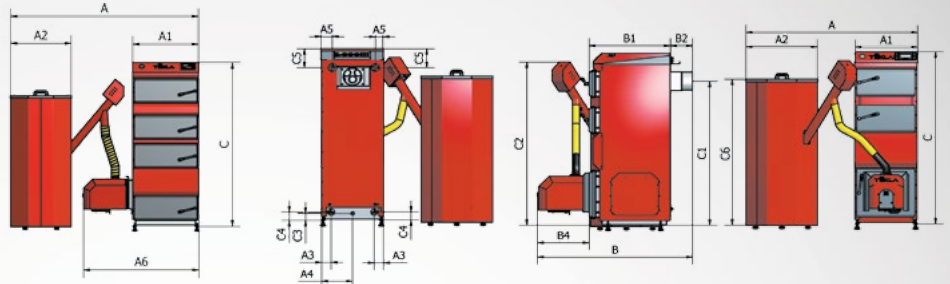
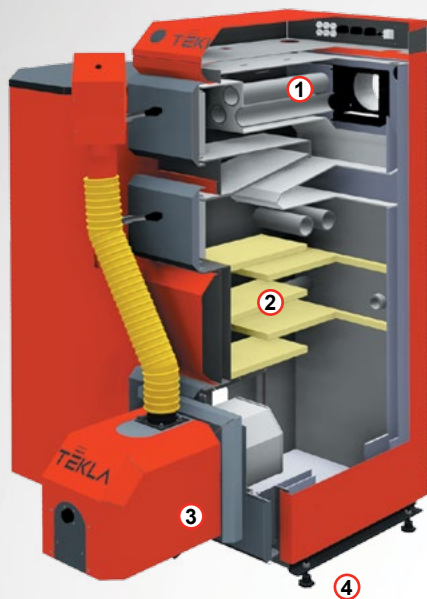


LCD boiler controller ESTYMA TOUCH as standard



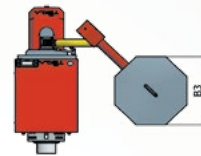
THE PHOTOS CONTAINED IN THE CATALOG ARE FOR INFORMATIONAL PURPOSES ONLY. THE PRESENTED MODEL OF THE BOILER DRACO D BIO 22

DRACO D BIO is a leading model of the BIO series boiler, which structure ioppers based on a very efficient single-furnace heat exchanger. Its surface of the heat reception has been additionally enlarged. The boiler utilises a self-cleaning pellet burner made of heat-resistant steel, installed in the front door of the unit (model 50 has the burner installed on the side of the heat exchanger). The burner grate has openings to ensure the supply of air needed for combustion, supplied by a blower mounted directly to the air mixer. The boiler heat exchanger is made of high quality, certified 8 mm thick steel. The correct operation of the boiler is controlled by a modern electronic controller with a colour LCD touch screen.



**DRACO D BIO 50 DIMENSIONS**  
(burner on the side in standard)

- 1 Fire tube and plate heat exchanger
- 2 System of ceramic catalysts and steel inserts
- 3 Automatic pellet burner with a movable grate at the front of the boiler (on the side as an option)
- 4 Feet for adjusting the boiler level



	DRACO D BIO 15	DRACO D BIO 22	DRACO D BIO 30	DRACO D BIO 50
A	1200	1230	1230	1870
A1	470	530	530	660
A2	610	610	610	610
A3	75	75	75	90
A4	235	265	265	330
A5	75	75	75	90
B	1270	1330	1450	1150
B1	620	655	775	1145
B2	190	190	190	860
B3 [mm]	610	610	610	190
B4	460	460	460	690
C	1440	1545	1545	1650
C1	1180	1290	1290	1380
C2	1500	1500	1500	1500
C3	75	75	75	75
C4	60	60	60	60
C5	180	180	180	190
C6	1340	1340	1340	1400

**Boiler advantages:**

- class 5 in performance and pollutants emission according to PN-EN 303-5:2012 standard and Ecodesign
- 5-year warranty for boiler heat exchanger tightness
- high-quality 8 mm thick steel boiler heat exchanger
- automatic self-cleaning burner with movable grate
- boiler housing and the hopper are entirely covered with powder paint
- two ways of fuel level indication (with sensor - optional) or by calculation as standard
- automatic switching mode summer / winter, electronically controlled by an outdoor sensor
- control of two circuits with mixing valves and DHW circuit
- return temperature adjustment via controlling the actuator on the 4-way valve
- possibility of connecting a room thermostat
- learning EILC algorithm
- full modulation of boiler operation - Fuzzy Logic 3 generation
- auto-configuration of sensors and functions
- extensive statistics

PARAMETER	SI	DRACO D BIO 15	DRACO D BIO 22	DRACO D BIO 30	DRACO D BIO 50	
NOMINAL POWER	kW	15	22	30	49	
EFFICIENCY	%	89	90	91	91	
POWER REGULATION SCOPE	kW	4,5 ÷ 15	6,6 ÷ 22	9 ÷ 30	14,7 ÷ 49	
EMISSION CLASS	-	5	5	5	5	
ECODESIGN	-	YES	YES	YES	YES	
ENERGY EFFICIENCY CLASS	-	A+	A+	A+	A+	
WEIGHT (BOILER/TANK)	kg	355 / 34	444 / 34	511 / 34	715 / 41	
HEATING AREA OF THE BOILER	m <sup>2</sup>	2,5	3,3	4,3	6,1	
WATER CAPACITY	dm <sup>3</sup>	75	125	150	225	
CHIMNEY DRAUGHT	Pa		10 ÷ 20		20 ÷ 30	
MAX. WATER WORKING PRESSURE	bar			1,5		
CONNECTIONS OF HEATING AND RETURN WATER PBOILER	Js		G 1 1/2"		G 2"	
DIMENSIONS OF THE BOILER WITH THE STORAGE BIN	WIDTH**	mm	1200	1230	1230	1880
	DEPTH	mm	1270	1330	1450	1145
	HEIGHT*	mm	1500	1545	1545	1640
DIAMETER OF FUMES OUTLET	mm			160		
HEIGHT TO THE AXIS OF THE FLUE*	mm	1180	1290	1290	1380	
STANDARD (OPTIONAL) HOPPER CAPACITY	dm <sup>3</sup>		240 (340/500)		340 (500)	
POWER CONSUMPTION MOTOREDUCTOR/BLOWER/IGNITER	W		50/45/300		50/85/300	

**BASE EQUIPMENT**

- burner with movable grate
- ESTYMA IGNEO TOUCH controller
- outdoor temperature sensor
- set of ceramic catalysts and steel inserts
- boiler cleaning equipment
- feet for adjusting the boiler level

**ADDITIONAL OPTION**

- exhaust thermometer
- four-way valve mixing
- mixing valve servomotor
- dual-functional thermostatic cool valve DBV-1
- tank 240, 340 lub 500 l.
- VIDE ROOM - room regulator
- VIDE NET - control via the internet

\* Boiler height can also be adjusted using the included foot.

\*\* The container is connected to the burner with a flexible tube - the width of the boiler depends on the type of the installed tank





# DRACO D BIO LUX

MODEL 15, 22, 30

Pellet

<b>ECO</b> design	<b>5</b> class	<b>5</b> years	<b>8</b> mm	<b>91</b> %
ECODESIGN 2020	ACC TO NORM EN 303-5:2012	GUARANTEE FOR THE EXCHANGER	EXCHANGER MADE OF STEEL	HEAT EFFICIENCY OF THE BOILER



**FIREBLAST** series burner  
with automatic cleaning



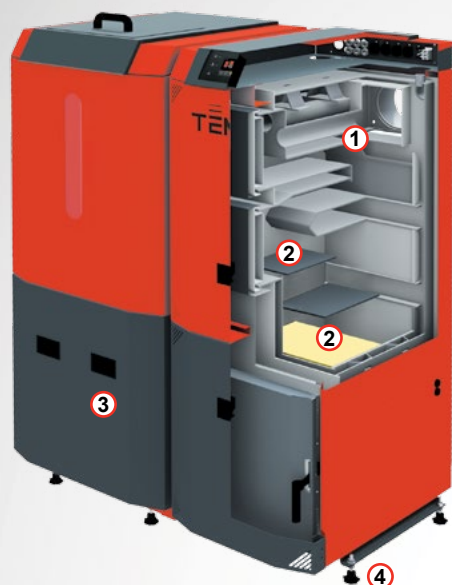
**LCD boiler controller**  
**ESTYMA TOUCH** as standard



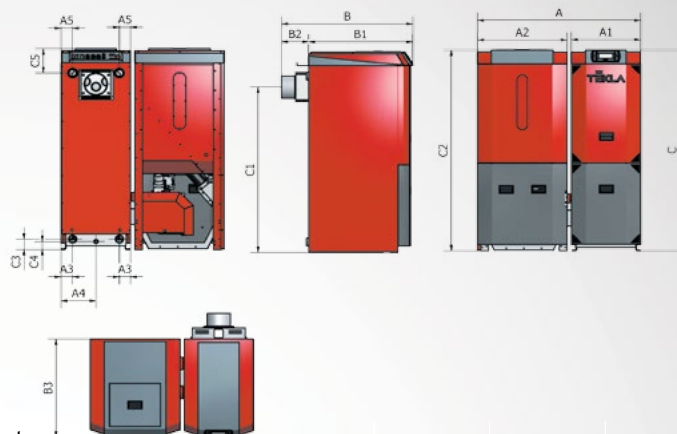
THE PHOTOS CONTAINED IN THE CATALOG ARE FOR INFORMATIONAL PURPOSES ONLY.  
THE PRESENTED MODEL OF THE BOILER DRACO D BIO LUX 15

DRACO D BIO LUX is an upgraded, more exclusive version of the DRACO D BIO series boiler. A very effective, single-furnace steel heat exchanger made of 8 mm sheet metal is placed in a compact, built-in enclosure creating a modern look of the boiler. The installed self-cleaning burner with movable grate is very well suited for burning 6 - 8 mm class A, A1 and B pellet. A modern electronic controller with a colour LCD touch screen controls the correct operation of the boiler. The controller has an option of extending it with additional modules such as, e.g. VIDE Net internet control, VIDE Room room control





- 1 Fire tube and plate heat exchanger
- 2 System of ceramic catalysts and steel inserts
- 3 Automatic pellet burner with a movable grate located under the tank
- 4 Feet for adjusting the boiler level



#### Boiler advantages:

- class 5 in performance and pollutants emission according to PN-EN 303-5:2012 standard and Ecodesign
- 5-year warranty for boiler heat exchanger tightness
- high-quality 8 mm thick steel boiler heat exchanger
- automatic self-cleaning burner with movable grate
- boiler housing and the hopper are entirely covered with powder paint
- two ways of fuel level indication (with sensor - optional) or by calculation as standard
- automatic switching mode summer / winter, electronically controlled by an outdoor sensor
- control of two circuits with mixing valves and DHW circuit
- return temperature adjustment via controlling the actuator on the 4-way valve
- possibility of connecting a room thermostat
- learning EILC algorithm
- full modulation of boiler operation - Fuzzy Logic 3 generation
- auto-configuration of sensors and functions
- extensive statistics

	DRACO D BIO LUX 15	DRACO D BIO LUX 22	DRACO D BIO LUX 30
A	1110	1170	1170
A1	470	530	530
A2	610	610	610
A3	75	80	80
A4	235	265	265
A5	75	80	80
B	890	920	1040
B1	700	730	850
B2	190	190	190
B3	700	700	700
C	1440	1545	1545
C1	1180	1290	1290
C2	1440	1545	1545
C3	75	75	75
C4	55	65	65
C5	185	185	185

PARAMETER	SI	DRACO D BIO LUX 15	DRACO D BIO LUX 22	DRACO D BIO LUX 30
NOMINAL POWER	kW	15	22	30
EFFICIENCY	%	89	90	91
POWER REGULATION SCOPE	kW	4,5 ÷ 15	6,6 ÷ 22	9 ÷ 30
EMISSION CLASS	-	5	5	5
ECODESIGN	-	YES	YES	YES
KLASA EFEKTYWNOŚCI ENERGETYCZNEJ	-	A+	A+	A+
WEIGHT (BOILER / TANK)	kg	436	512	574
HEATING AREA OF THE BOILER	m <sup>2</sup>	2,5	3,3	4,3
WATER CAPACITY	dm <sup>3</sup>	75	125	150
CHIMNEY DRAUGHT	Pa		10 ÷ 20	
MAX. WATER WORKING PRESSURE	bar		1,5	
CONNECTIONS OF HEATING AND RETURN WATER PBOILER	Js		G 1 1/2"	
DIMENSIONS OF THE BOILER WITH THE STORAGE BIN	WIDTH	mm	1110	1170
	DEPTH	mm	890	920
	HEIGHT*	mm	1440	1545
DIAMETER OF FUMES OUTLET	mm		160	
HEIGHT TO THE AXIS OF THE FLUE*	mm	1180	1290	1290
STORAGE BIN VOLUME	dm <sup>3</sup>	200		240
POWER CONSUMPTION MOTOREDUCTOR/BLOWER/IGNITER	W		50/45/300	

#### BASE EQUIPMENT

- burner with movable grate
- ESTYMA IGNEO TOUCH controller
- outdoor temperature sensor
- set of ceramic catalysts and steel inserts
- boiler cleaning equipment
- feet for adjusting the boiler level

#### ADDITIONAL OPTION

- exhaust thermometer
- four-way valve mixing
- mixing valve servomotor
- dual-functional thermostatic cool valve DBV-1
- VIDE ROOM - room regulator
- VIDE NET - control via the internet

\* Boiler height can also be adjusted using the included foot.



# DRACO BIO

MODEL 12, 35

Pellet

<b>ECO</b> design	<b>5</b> class	<b>5</b> years	<b>8</b> mm	<b>90</b> %
<small>ECODESIGN 2020</small>	<small>ACC TO NORM EN 303-5:2012</small>	<small>GUARANTEE FOR THE EXCHANGER</small>	<small>EXCHANGER MADE OF STEEL</small>	<small>HEAT EFFICIENCY OF THE BOILER</small>



**FIREBLAST series burner**  
with automatic cleaning



**LCD boiler controller**  
ESTYMA TOUCH as standard



THE PHOTOS CONTAINED IN THE CATALOG  
ARE FOR INFORMATIONAL PURPOSES ONLY.  
THE PRESENTED MODEL OF THE BOILER DRACO BIO 35

DRACO BIO is proven over the years design based on a compact, efficient single-furnace heat exchanger. The BIO series boilers are equipped with the FIREBLAST series pellet burner of unique design made of heat-resistant steel. The burner grate has openings to ensure the supply of air needed for combustion, supplied by a blower mounted directly to the air mixer. The boiler heat exchanger is made of high quality, certified 8 mm thick steel. The correct operation of the boiler is controlled by a modern electronic controller with a large, colour LCD touch screen.

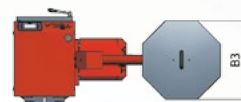
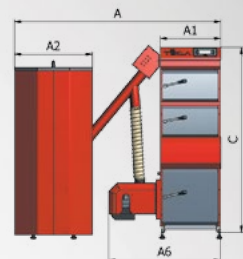
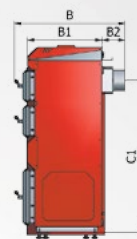
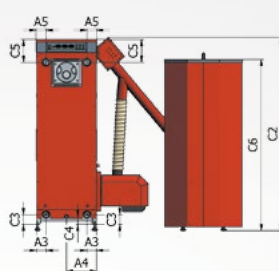


DRACO BIO 35

- 1 Fire tube and plate heat exchanger
- 2 System of ceramic catalysts and steel inserts
- 3 Automatic self-cleaning burner with movable grate
- 4 Feet for adjusting the boiler level



DRACO BIO 12



### Boiler advantages:

- class 5 in performance and pollutants emission according to PN-EN 303-5:2012 standard and Ecodesign
- low energy consumption – A+ energy-efficiency rating
- 5-year warranty for boiler heat exchanger tightness
- high-quality 8 mm thick steel boiler heat exchanger (DRACO BIO 12 - steel 5 mm)
- possibility of connecting a room thermostat **VIDE Room** (extra fee)
- flame control with a photo sensor
- automatic self-cleaning burner with movable grate in the standard version of the boiler
- entirely automatic boiler operation (automatic startup, shutdown, and cleaning)
- boiler housing and the hopper are entirely covered with powder paint
- control of two circuits with mixing valves and DHW circuit
- return temperature adjustment via controlling the actuator on the 4-way valve
- learning EILC algorithm
- full modulation of boiler operation - Fuzzy Logic 3 generation
- auto-configuration of sensors and functions
- extensive statistics

	DRACO BIO 12	DRACO BIO 35
A	1550	1650
A1	490	530
A2	610	610
A3	90	80
A4	90	265
A5	90	80
A6	850	960
B	770	1020
B1 [mm]	560	775
B2	45	190
B3	610	610
C	1120	1545
C1	845	1290
C2	1500	1500
C3	75	75
C4	65	65
C5	195	180
C6	1340	1340

PARAMETER	SI	DRACO BIO 12	DRACO BIO 35
NOMINAL POWER	kW	12	35
EFFICIENCY	%	89	90
POWER REGULATION SCOPE	kW	3,6 ÷ 12	10,5 ÷ 35
EMISSION CLASS	-	5	5
ECODESIGN	-	YES	YES
ENERGY EFFICIENCY CLASS	-	A+	A+
WEIGHT (BOILER / TANK)	kg	235 / 34	517 / 34
HEATING AREA OF THE BOILER	m <sup>2</sup>	1,8	4,5
WATER CAPACITY	dm <sup>3</sup>	55	155
CHIMNEY DRAUGHT	Pa	8 ÷ 17	10 ÷ 20
MAX. WATER WORKING PRESSURE	bar	1,5	
CONNECTIONS OF HEATING AND RETURN WATER PBOILER	Js	G 1 1/2"	
DIMENSIONS OF THE BOILER WITH THE STORAGE BIN	WIDTH **	mm	1550
	DEPTH	mm	770
	HEIGHT*	mm	1500
DIAMETER OF FUMES OUTLET	mm	145	160
HEIGHT TO THE AXIS OF THE FLUE*	mm	845	1290
STANDARDOWA (OPCJONALNA) POJEMNOŚĆ ZASOBNIKA	dm <sup>3</sup>	240 (340/500)	240 (340/500)
POWER CONSUMPTION MOTOREDUCTOR/BLOWER/IGNITER	W	50/45/300	50/45/300

\* Boiler height can also be adjusted using the included foot.

\*\* The container is connected to the burner with a flexible tube - the width of the boiler depends on the type of the installed tank

### BASE EQUIPMENT

- automatic burner cleaning
- set of ceramic catalysts
- ESTYMA IGNEO TOUCH controller
- outdoor temperature sensor
- boiler cleaning equipment
- feet for adjusting the boiler level

### ADDITIONAL OPTION

- exhaust thermometer
- four-way valve mixing
- mixing valve servomotor
- dual-functional thermostatic cool valve DBV-1
- tank 240, 340 lub 500 l.
- VIDE ROOM - room regulator
- VIDE NET - control via the internet

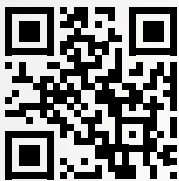


# DRACO BIO

MODEL 75, 150

Pellet

ECO design	5 class	5 years	8 mm	93 %
ECODESIGN 2020	ACC TO NORM EN 303-5:2012	GUARANTEE FOR THE EXCHANGER	EXCHANGER MADE OF STEEL	HEAT EFFICIENCY OF THE BOILER

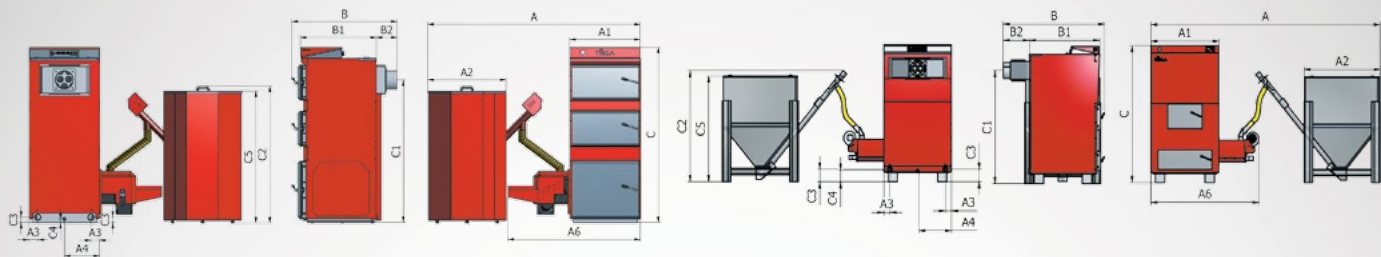


Dotykowy regulator kotłowy  
ESTYMA TOUCH - opcja za dopłatą

THE PHOTOS CONTAINED IN THE CATALOG ARE FOR INFORMATIONAL PURPOSES ONLY.  
THE PRESENTED MODEL OF THE BOILER DRACO BIO 75

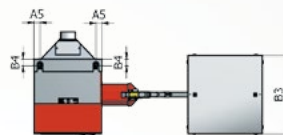
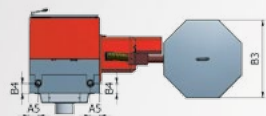
DRACO BIO is proven over the years design based on a very efficient single-furnace heat exchanger. The BIO series boilers are equipped with the FIREBLAST series pellet burner of unique design made of heat-resistant steel. The burner grate has openings to ensure the supply of air needed for combustion, supplied by a blower mounted directly to the air mixer. The boiler heat exchanger is made of high quality, certified 8 mm thick steel (model 150 is made of 5 mm steel). The correct operation of the boiler is controlled by the modern electronic Estyma Igneo TOUCH controller with a large LCD screen.





**DRACO BIO 75 DIMENSIONS**

**DRACO BIO 150 DIMENSIONS**



**Tank  
1000 kg  
or 1500 kg**

**Boiler advantages:**

- class 5 in performance and pollutants emission according to PN-EN 303-5:2012 standard and Ecodesign
- 5-year warranty for boiler heat exchanger tightness
- good combustion of pellets, also of lower quality (industrial) and fine dry biomass
- power modulation - the burner burns as much fuel as is required for heat
- low energy consumption – A+ energy-efficiency rating
- automatic shutdown and ignition of the burner in the event of power failure

**The burner includes:**

- burner with control, central heating sensors and DHW, cabling
- "spiro" tube for connecting the burner with the feeder
- standard length feeder 2.0 mb (feeder extension option by 0.5 or 1 m)

**ADDITIONAL OPTION:**

- feeder extension - up to a length of 3 m
- wired or wireless room control

	<b>DRACO BIO 75</b>	<b>DRACO BIO 150</b>
A	<b>2300</b>	<b>3730</b>
A1	<b>770</b>	<b>1105</b>
A2	<b>850</b>	<b>1200</b>
A3	<b>95</b>	<b>100</b>
A4	<b>385</b>	<b>550</b>
A5	<b>105</b>	<b>95</b>
A6	<b>1440</b>	<b>1760</b>
B	<b>1140</b>	<b>1650</b>
B1 [mm]	<b>820</b>	<b>1150</b>
B2	<b>220</b>	<b>425</b>
B3	<b>850</b>	<b>1200</b>
B4	<b>105</b>	<b>100</b>
C	<b>1900</b>	<b>2115</b>
C1	<b>1550</b>	<b>1745</b>
C2	<b>1500</b>	<b>1715</b>
C3	<b>55</b>	<b>195</b>
C4	<b>40</b>	<b>175</b>
C5	<b>1440</b>	<b>1600</b>

<b>PARAMETER</b>	<b>SI</b>	<b>DRACO BIO 75</b>	<b>DRACO BIO 150</b>
NOMINAL POWER	kW	75	150
EFFICIENCY	%	89	93
POWER REGULATION SCOPE	kW	22,5 ÷ 75	45 ÷ 150
EMISSION CLASS	-	5	5
ECODESIGN	-	YES	YES
ENERGY EFFICIENCY CLASS	-	A+	A+
WEIGHT (BOILER / TANK)	kg	833 / 97	1342 / 132
HEATING AREA OF THE BOILER	m <sup>2</sup>	8,2	16,9
WATER CAPACITY	dm <sup>3</sup>	220	655
CHIMNEY DRAUGHT	Pa	20 ÷ 30	25 ÷ 40
MAX. WATER WORKING PRESSURE	bar		1,5
CONNECTIONS OF HEATING AND RETURN WATER PBOILER	Js		G 2"
DIMENSIONS OF THE BOILER WITH THE STORAGE BIN	WIDTH *	mm	2300
	DEPTH	mm	1140
	HEIGHT	mm	1900
DIAMETER OF FUMES OUTLET	mm	200	250
HEIGHT TO THE AXIS OF THE FLUE	mm	1550	1745
STANDARD (OPTIONAL) HOPPER CAPACITY	kg	320	1000 (1500)
POWER CONSUMPTION MOTOREDUCTOR/BLOWER/IGNITER	W	50/85/300	50/260/300

**BASE EQUIPMENT**

- automatic self-cleaning burner
- ceramic catalysts
- ESTYMA INGNEO TOUCH controller
- outdoor temperature sensor
- boiler cleaning equipment

**ADDITIONAL OPTION**

- exhaust thermometer
- four-way valve mixing
- mixing valve servomotor
- dual-functional thermostatic cool valve DBV-1
- tank 1000 or 1500 kg
- VIDE ROOM - room regulator
- VIDE NET - control via the internet

\* The container is connected to the burner with a flexible tube - the width of the boiler depends on the type of the installed tank

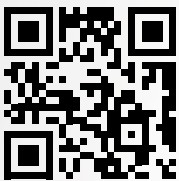


# TYTAN BIO

MODEL 20, 25, 30

Pellet

<b>ECO</b> design	<b>5</b> class	<b>10</b> years	<b>4</b> pass	<b>91</b> %
ECODESIGN 2020	ACC TO NORM EN 303-5:2012	GUARANTEE FOR THE EXCHANGER	CAST IRON EXCHANGER	HEAT EFFICIENCY OF THE BOILER



**FIREBLAST series burner  
with automatic cleaning**

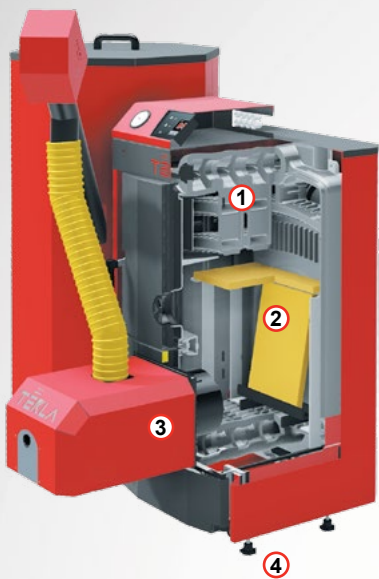


**LCD boiler controller  
ESTYMA TOUCH as standard**

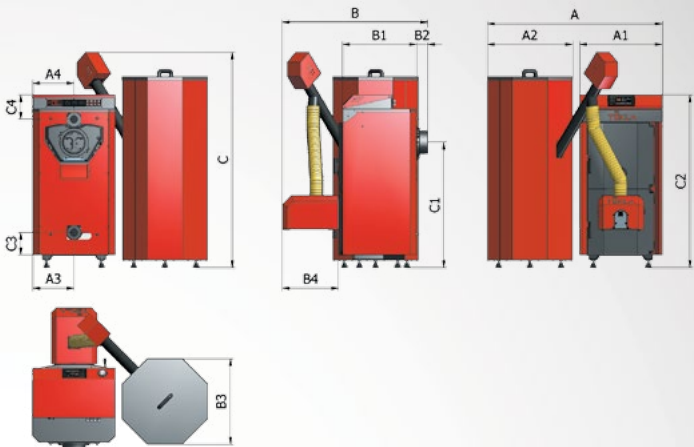


THE PHOTOS CONTAINED IN THE CATALOG ARE FOR INFORMATIONAL PURPOSES ONLY.  
THE PRESENTED MODEL OF THE BOILER TYTAN BIO 25

TYTAN BIO is a cast-iron boiler equipped with an automatic pellet burner. The boiler cast-iron heat exchanger is characterised by high corrosion resistance and, consequently, long service life (10-year warranty). The modular design of the heat exchanger allows for an optional extension at any time of its operation. The main advantage of the boiler is the advanced flue gas flow solution. The boiler heat exchanger is designed so that the flue gas circulation is extended as much as possible (4 draughts). This significantly increases its efficiency while limiting heat losses to the chimney. The boiler is equipped with a weather, modern electronic controller Estyma Igneo TOUCH with a large, colour LCD touch screen.



- 1 4 pass flue gas circulation principle
- 2 Ceramic catalysts
- 3 Palnik na pellet FIREBLAST z automatycznym czyszczeniem
- 4 Feet for adjusting the boiler level



#### Boiler advantages:

- 10-year warranty for the tightness of cast iron sections
- boiler housing and the hopper are entirely covered with powder paint
- four-way flue gas flow increasing boiler efficiency
- low level of harmful substances in exhaust gases
- easy and fast operation and maintenance
- entirely automatic boiler operation (automatic startup, shutdown, and cleaning)
- possibility of connecting a room thermostat **VIDE Room** (extra fee)
- flame control with a photo sensor
- possibility to connect a **VIDE Room** room thermostat (extra fee)
- control of two circuits with mixing valves and DHW circuit
- return temperature adjustment mode through adjuster control on a four-way valve
- possibility of connecting a room thermostat
- learning EILC algorithm
- full modulation of boiler operation - Fuzzy Logic 3 generation
- auto-configuration of sensors and functions
- extensive statistics

TYTAN BIO 20 TYTAN BIO 25 TYTAN BIO 30

A		1270	
A1		590	
A2		610	
A3		290	
A4		290	
B		1280	1380 1480
B1		640	740 840
B2	[mm]		90
B3			610
B4			490
C			1570
C1			835
C2			1215
C3			195
C4			210

PARAMETER	SI	TYTAN BIO 20	TYTAN BIO 25	TYTAN BIO 30
NOMINAL POWER	kW	20	25	30
EFFICIENCY	%	89	91	90
POWER REGULATION SCOPE	kW	6 ÷ 20	7,5 ÷ 25	9 ÷ 30
EMISSION CLASS	-	5	5	5
ECODESIGN	-	YES	YES	YES
ENERGY EFFICIENCY CLASS	-	A+	A+	A+
WEIGHT (BOILER / TANK)	kg	366 / 34	411 / 34	452 / 34
WATER CAPACITY	dm <sup>3</sup>	30	35	40
CHIMNEY DRAUGHT	Pa		10 ÷ 20	
MAX. WATER WORKING PRESSURE	bar		3	
CONNECTIONS OF HEATING AND RETURN WATER PBOILER	Js		G 1 1/2"	
DIMENSIONS OF THE BOILER WITH THE STORAGE BIN	WIDTH **	mm	1270	
	DEPTH	mm	1280	1380 1480
	HEIGHT*	mm		1570
DIAMETER OF FUMES OUTLET	mm		160	
HEIGHT TO THE AXIS OF THE FLUE*	mm		835	
STANDARD (OPTIONAL) HOPPER CAPACITY	dm <sup>3</sup>		240 (340/500)	
POWER CONSUMPTION MOTOREDUCTOR/BLOWER/IGNITER	W		50/45/300	

\* Boiler height can also be adjusted using the included foot.

\*\* The container is connected to the burner with a flexible tube - the width of the boiler depends on the type of the installed tank

## BASE EQUIPMENT

- automatic self-cleaning burner
- set of ceramic catalysts
- ESTYMA IGNEO TOUCH controller
- outdoor temperature sensor
- boiler cleaning equipment
- feet for adjusting the boiler level

## ADDITIONAL OPTION

- exhaust thermometer
- four-way valve mixing
- mixing valve servomotor
- dual-functional thermostatic cool valve DBV-1
- tank 240, 340 or 500 l.
- VIDE ROOM - room regulator
- VIDE NET - control via the internet

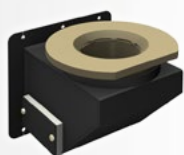


# DRACO D

MODEL 15, 25, 50

Pea coal

ECO design	5 class	5 years	8 mm	91 %
ECODESIGN 2020	ACC TO NORM EN 303-5:2012	GUARANTEE FOR THE EXCHANGER	EXCHANGER MADE OF STEEL	HEAT EFFICIENCY OF THE BOILER



A retort burner with a scroll fuel conveyor



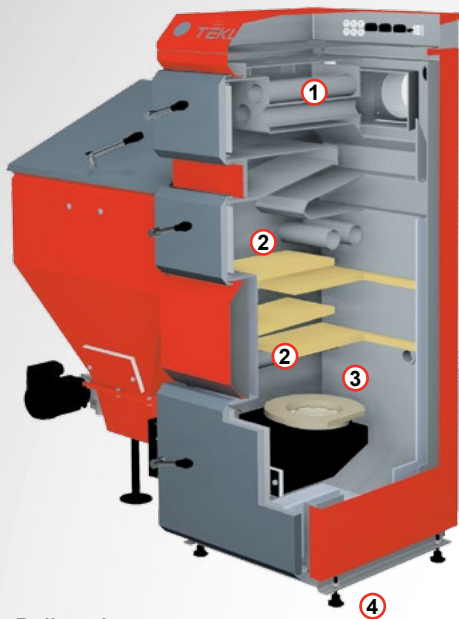
**SELECT**  
Regulator kotła z podajnikiem ślimakowym - obsługa dwóch mieszaczy i DHW



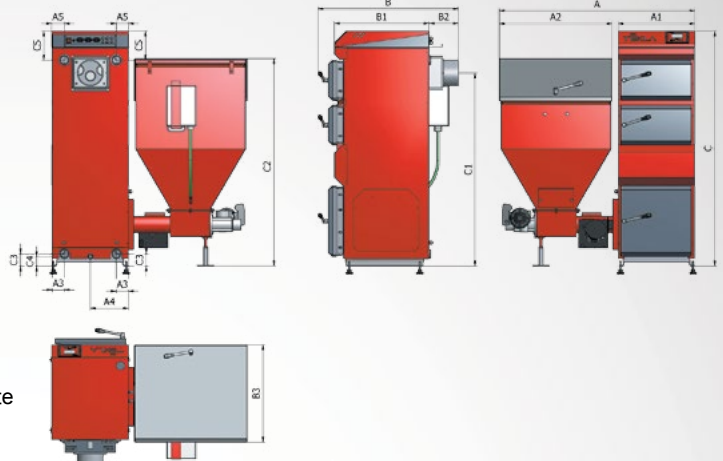
THE PHOTOS CONTAINED IN THE CATALOG ARE FOR INFORMATIONAL PURPOSES ONLY. THE PRESENTED MODEL OF THE BOILER DRACO D 25

The DRACO D boiler is equipped with a durable cast-iron retort furnace to which fuel is fed from the tank by means of an auger feeder. This provides the user with a high level of use comfort with minimal effort. The very efficient boiler heat exchanger is made of high quality, attested 8 mm thick steel. A large inspection opening in the upper part of the heat exchanger allows for easy and quick cleaning of the boiler. The correct operation of the boiler is controlled by an electronic controller with a large and legible LCD screen. As standard, the boiler is equipped with two systems to prevent the glow from going back to the fuel tank. The DRACO boiler, proven over the years, has a very effective heat exchanger made of high-quality attested 8 mm thick steel. A large inspection opening in the upper part of the heat exchanger allows for easy and quick cleaning. The boiler is equipped with durable cast-iron retort furnace to which fuel is fed from the tank by means of an auger feeder. An electronic controller with a large and legible LCD screen ensures boiler proper functioning. As standard, the boiler is equipped with two systems to prevent the glow from going back to the fuel tank.





- 1 Fire tube and plate heat exchanger
- 2 System of ceramic catalysts and steel inserts
- 3 Cast iron retort and the burner grate
- 4 Feet for adjusting the boiler level



#### Boiler advantages:

- class 5 in performance and pollutants emission according to PN-EN 303-5:2012 standard and Ecodesign
- 5-year warranty for boiler heat exchanger tightness
- high-quality 8 mm thick steel boiler heat exchanger
- boiler housing and the hopper are entirely covered with powder paint
- controller with weather function
- automatic switching mode summer / winter, electronically controlled by an outdoor sensor
- option of connecting 2 room thermostats
- option of connecting internet module
- PID algorithm allowing for boiler output modulation
- control of two circuits with mixing valves and DHW circuit
- fuel level indicator working with NANO allows less frequent visits to the boiler room
- return temperature adjustment via controlling the actuator on the 4-way valve

	DRACO D 15	DRACO D 25	DRACO D 50
A	1210	1270	1470
A1	470	530	660
A2	695	695	730
A3	75	80	88
A4	235	265	330
A5	75	80	85
B	900	900	1145
B1	580	655	860
B2	190	120	190
B3	605	605	640
C	1440	1545	1640
C1	1180	1290	1380
C2	1270	1390	1400
C3	75	75	75
C4	60	65	60
C5	180	180	185

[mm]

PARAMETER	SI	DRACO D 15	DRACO D 25	DRACO D 50	
NOMINAL POWER	kW	15	25	49	
EFFICIENCY	%	91	90	91	
POWER REGULATION SCOPE	kW	4,5 ÷ 15	7,5 ÷ 25	14,7 ÷ 49	
EMISSION CLASS	-	5	5	5	
ECODESIGN	-	YES	YES	YES	
ENERGY EFFICIENCY CLASS	-	B	C	B	
WEIGHT	kg	396	510	758	
HEATING AREA OF THE BOILER	m <sup>2</sup>	2,5	3,3	6,1	
WATER CAPACITY	dm <sup>3</sup>	75	125	225	
CHIMNEY DRAUGHT	Pa	15 ÷ 25		20 ÷ 30	
MAX. WATER WORKING PRESSURE	bar	1,5			
CONNECTIONS OF HEATING AND RETURN WATER PBOILER	Js	G 1 1/2"			
DIMENSIONS OF THE BOILER WITH THE STORAGE BIN	WIDTH	mm	1210	1270	1470
	DEPTH	mm	900	900	1145
	HEIGHT*	mm	1440	1545	1640
DIAMETER OF FUMES OUTLET	mm	160			
HEIGHT TO THE AXIS OF THE FLUE*	mm	1180	1290	1380	
TANK VOLUME	dm <sup>3</sup>	230		320	
POWER CONSUMPTION MOTOREDUCTOR/BLOWER	W	90/85		90/170	

\* Boiler height can also be adjusted using the included foot.

#### BASE EQUIPMENT

- set of ceramic catalysts and steel inserts
- weather regulator with a set of sensors
- boiler cleaning equipment
- protection tank against ignition of fuel in the tank, so-called "Firefighter"
- feet for adjusting the boiler level

#### ADDITIONAL OPTION

- exhaust thermometer
- four-way valve mixing
- mixing valve servomotor
- dual-functional thermostatic cool valve DBV-1

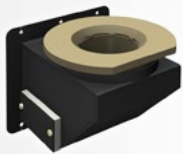


# DRACO

MODEL 35

Pea coal

<b>ECO</b> design	<b>5</b> class	<b>5</b> years	<b>8</b> mm	<b>91</b> %
<small>ECODESIGN 2020</small>	<small>ACC TO NORM EN 303-5:2012</small>	<small>GUARANTEE FOR THE EXCHANGER</small>	<small>EXCHANGER MADE OF STEEL</small>	<small>HEAT EFFICIENCY OF THE BOILER</small>



A retort burner  
with a scroll fuel  
conveyor

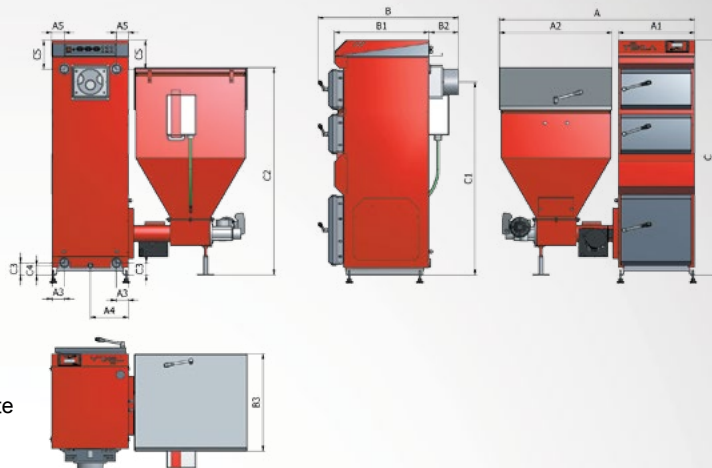
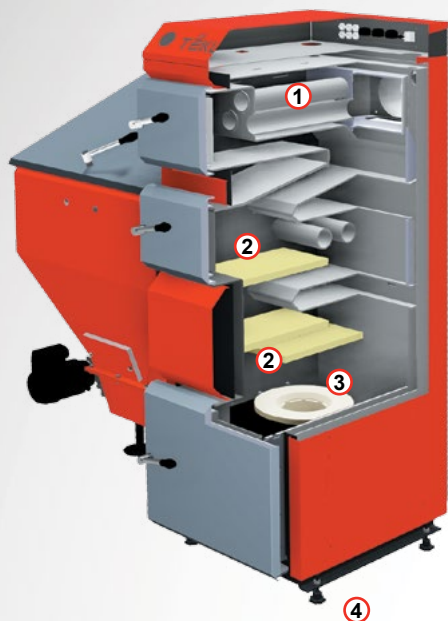


**SELECT**  
An electronic regulator



THE PHOTOS CONTAINED IN THE CATALOG ARE FOR INFORMATIONAL PURPOSES ONLY.  
THE PRESENTED MODEL OF THE BOILER DRACO 35

The DRACO boiler, proven over the years, has a very effective heat exchanger made of high-quality attested 8 mm thick steel. A large inspection opening in the upper part of the heat exchanger allows for easy and quick cleaning. The boiler is equipped with durable cast-iron retort furnace to which fuel is fed from the tank by means of an auger feeder. An electronic controller with a large and legible LCD screen ensures boiler proper functioning. As standard, the boiler is equipped with two systems to prevent the glow from going back to the fuel tank.



- 1 Fire tube and plate heat exchanger
- 2 System of ceramic catalysts and steel inserts
- 3 Cast iron retort and the burner grate
- 4 Feet for adjusting the boiler level

#### Boiler advantages:

- class 5 in performance and pollutants emission according to PN-EN 303-5:2012 standard and Ecodesign
- 5-year warranty for boiler heat exchanger tightness
- high-quality 8 mm thick steel boiler heat exchanger
- boiler housing and the hopper are entirely covered with powder paint
- controller with weather function
- automatic switching mode summer / winter, electronically controlled by an outdoor sensor
- option of connecting 2 room thermostats
- option of connecting internet module
- PID algorithm allowing for boiler output modulation
- control of two circuits with mixing valves and DHW circuit
- fuel level indicator working with NANO allows less frequent visits to the boiler room
- return temperature adjustment via controlling the actuator on the 4-way valve

#### DRACO 35

A		1270
A1		530
A2		695
A3		80
A4		265
A5		80
B		1020
B1		775
B2	[mm]	120
B3		605
C		1545
C1		1290
C2		1390
C3		75
C4		65
C5		180

PARAMETER	SI	DRACO 35	
NOMINAL POWER	kW	35	
EFFICIENCY	%	91	
POWER REGULATION SCOPE	kW	10,5 ÷ 35	
EMISSION CLASS	-	5	
ECODESIGN	-	YES	
ENERGY EFFICIENCY CLASS	-	B	
WEIGHT	kg	551	
HEATING AREA OF THE BOILER	m <sup>2</sup>	4,5	
WATER CAPACITY	dm <sup>3</sup>	155	
CHIMNEY DRAUGHT	Pa	15 ÷ 25	
MAX. WATER WORKING PRESSURE	bar	1,5	
CONNECTIONS OF HEATING AND RETURN WATER PBOILER	Js	G 1 ½"	
DIMENSIONS OF THE BOILER WITH THE STORAGE BIN	WIDTH	mm	1270
	DEPTH	mm	1020
	HEIGHT*	mm	1545
DIAMETER OF FUMES OUTLET	mm	160	
HEIGHT TO THE AXIS OF THE FLUE*	mm	1290	
TANK VOLUME	dm <sup>3</sup>	230	
POWER CONSUMPTION MOTOREDUCTOR/BLOWER	W	90/85	

\* Boiler height can also be adjusted using the included foot.

#### BASE EQUIPMENT

- set of ceramic catalysts and steel inserts
- weather regulator with a set of sensors
- boiler cleaning equipment
- protection tank against ignition of fuel in the tank, so-called "Firefighter"
- feet for adjusting the boiler level

#### ADDITIONAL OPTION

- exhaust thermometer
- four-way valve mixing
- mixing valve servomotor
- dual-functional thermostatic cool valve DBV-1

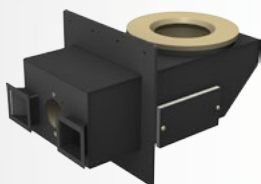


# DRACO

MODEL 75, 150

Pea coal

<b>ECO</b> design	<b>5</b> class	<b>5</b> years	<b>8</b> mm	<b>92</b> %
ECODESIGN 2020	ACC TO NORM EN 303-5:2012	GUARANTEE FOR THE EXCHANGER	EXCHANGER MADE OF STEEL	HEAT EFFICIENCY OF THE BOILER



A retort burner  
with a scroll fuel  
conveyor



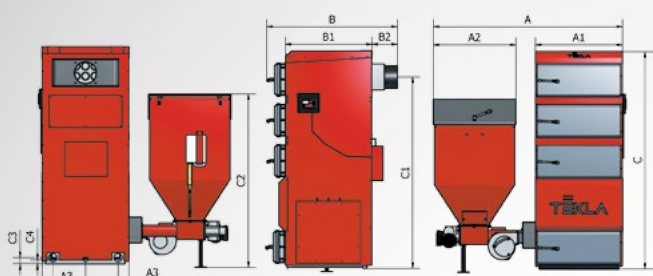
**SELECT**  
An electronic regulator



THE PHOTOS CONTAINED IN THE CATALOG ARE FOR INFORMATIONAL PURPOSES ONLY.  
THE PRESENTED MODEL OF THE BOILER DRACO 75

The DRACO boiler, proven over the years, has a very effective heat exchanger made of high-quality attested 8 mm thick steel. A large inspection opening in the upper part of the heat exchanger allows for easy and quick cleaning. The boiler is equipped with durable cast-iron retort furnace to which fuel is fed from the tank by means of an auger feeder. An electronic controller with a large and legible LCD screen ensures boiler proper functioning. As standard, the boiler is equipped with two systems to prevent the glow from going back to the fuel tank.

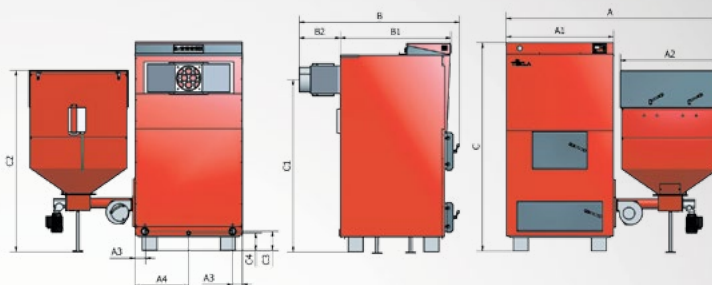




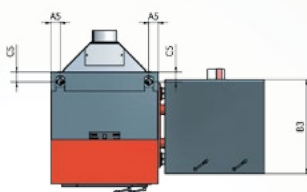
**DRACO 75 DIMENSIONS**



Automatic burner with a single retort furnace and two blowers in the model 75



**DRACO 150 DIMENSIONS**



Automatic burner with double retort furnace, separate feeding screws and blowing in model 150

**Boiler advantages:**

- class 5 in performance and pollutants emission according to PN-EN 303-5:2012 standard and Ecodesign
- 5-year warranty for boiler heat exchanger tightness
- high-quality 6 mm thick steel boiler heat exchanger
- boiler housing and the hopper are entirely covered with powder paint
- controller with weather function
- automatic switching mode summer / winter, electronically controlled by an outdoor sensor
- option of connecting 2 room thermostats
- option of connecting internet module
- PID algorithm allowing for boiler output modulation
- control of two circuits with mixing valves and DHW circuit
- fuel level indicator working with NANO allows less frequent visits to the boiler room
- return temperature adjustment via controlling the actuator on the 4-way valve

	DRACO 75	DRACO 150
A	1675	2150
A1	770	1105
A2	730	1035
A3	95	100
A4	385	550
A5	105	95
B	1155	1650
B1	770	1150
B2	[mm] 225	425
B3	640	960
C	1925	2115
C1	1685	1745
C2	1500	1880
C3	70	195
C4	50	175
C5	100	100

PARAMETER	SI	DRACO 75	DRACO 150	
NOMINAL POWER	kW	70	140	
EFFICIENCY	%	92	92	
POWER REGULATION SCOPE	kW	21 ÷ 70	42 ÷ 140	
EMISSION CLASS	-	5	5	
ECODESIGN	-	YES	YES	
ENERGY EFFICIENCY CLASS	-	B	B	
WEIGHT	kg	920	1583	
HEATING AREA OF THE BOILER	m <sup>2</sup>	9,2	16,9	
WATER CAPACITY	dm <sup>3</sup>	320	655	
CHIMNEY DRAUGHT	Pa	20 ÷ 30	35 ÷ 45	
MAX. WATER WORKING PRESSURE	bar		1,5	
CONNECTIONS OF HEATING AND RETURN WATER PBOILER	Js		G 2"	
DIMENSIONS OF THE BOILER WITH THE STORAGE BIN	WIDTH	mm	1675	2150
	DEPTH	mm	1155	1650
	HEIGHT	mm	1925	2115
DIAMETER OF FUMES OUTLET	mm	200	250	
HEIGHT TO THE AXIS OF THE FLUE	mm	1685	1745	
TANK VOLUME	dm <sup>3</sup>	320	920	
POWER CONSUMPTION MOTOREDUKTOR/DMUCHAWA	W	180/170	360/340	

**BASE EQUIPMENT**

- set of ceramic catalysts and concrete deflector
- weather regulator with a set of sensors
- boiler cleaning equipment
- protection tank against ignition of fuel in the tank, so-called "Firefighter"

**ADDITIONAL OPTION**

- exhaust thermometer
- four-way valve mixing
- mixing valve servomotor
- dual-functional thermostatic cool valve DBV-1

# Modular boiler controller Igneo Touch

## Design

The unit is distinguished by its thoughtful design: a very thin frame (3 mm), a large glass touch panel occupying 95% of the front surface, which is almost flat, and a high-quality display. Thanks to this, the panel fits perfectly into the current design trends of modern heating boilers.



Compatibility  
hole with Ignéo  
Slim

**igneo**  
touch

## Functionality

- intuitive menu for daily operation from a single screen
- two ways of indicating the remaining fuel quantity: using a sensor or by calculation
- weekly time schedules, separate for: heating, hot water and boiler
- learning EILC algorithm
- FL3 output modulation
- different levels of access to menus and settings (user, service and manufacturer)
- self-configuration of sensors and functions
- extensive statistics (boiler operation analysis available for installer and manufacturer)



# Configuration

The modular design of the controller provides a high degree of configuration freedom. A basic configuration comprises of the igneo touch operator panel and executive module (inputs/outputs), which can be adjusted to the actual boiler or market needs. Furthermore, the end-user can extend the system based on the available modules. The device is fully compatible with the existing igneo line.

# Technology

The TFT touch display and capacitive touch technology known from modern smartphones ensure high comfort of use. By recognising gestures such as dragging and moving, the device operation becomes easier and more intuitive. A high-performance processor and external SDRAM memory provide smooth animations of the user interface.



Communication takes place via the CAN bus.

It is distinguished by high transmission reliability and maximum connection length up to 1,000 m. The micro SD card connector provides an easy update. Intensive testing in the in-house laboratory already at the design stage ensured high resistance to interferences as well as electrostatic and atmospheric discharges.

# Algorithms

Thanks to the use of a high-performance ARM Cortex-M4F 180MHz processor, it was possible to use the latest algorithms for regulating the process of biomass fuel combustion. As a result, igneo touch is one step ahead of the competitors.



**EILC Estyma Iterative Learning Control** The first learning controller in Poland — EILC Estyma Iterative Learning (control with iterative learning). The algorithm is based on data collected from previous combustion processes (learning) and continuous adaptation to fuel quality variables and other conditions. This makes the parameters achieved by the boilers in laboratory conditions achievable without continuous adjustment even in real operating conditions. With every kilogram of fuel burned, the algorithm is improving. Similar solutions have long been used in the automotive industry.



**Estyma Fuzzy Logic 3** Third version of the furnace output adjustment based on fuzzy logic. Appropriate burner output control is to maintain the combustion continuity, which will ensure the high temperature in the combustion chamber. The high temperature in the chamber guarantees complete combustion, low emissions and high efficiency.



# RG Wireless devices line



Replace the wire system with Estyma wireless devices. One RadioGateway is all it takes to connect other wireless devices to the system. The product portfolio includes temperature sensors, room controllers and outdoor temperature sensors.

Wireless devices for radio communication utilise high-performance, reliable S2LP transceivers made by leading European company — STMicroelectronics. This has enabled us to achieve very low power consumption with excellent range results. Additionally, it is possible to check the battery status of each wireless device in the boiler controller.

The long-range of the devices and the possibility to check the signal power on the installation stage eliminate problems related to wireless communication.

## Advantages of the system

- ✓ Easy installation and operation  
Pairing wireless devices with RadioGateway limited to pushing two buttons only
- 📶 Long range up to 50 m indoors and up to 500 m outdoors.
- 🔋 Long battery service life  
Minimum 7 years for CTZ RG.
- ☁️⚡ CTZ RG resistance to bad weather conditions — IP55 enclosure.
- 📶 Option of checking the radio signal strength of the wireless devices in the IgneoTouch controller.



# SMARTFLOW - draft regulator kominowego

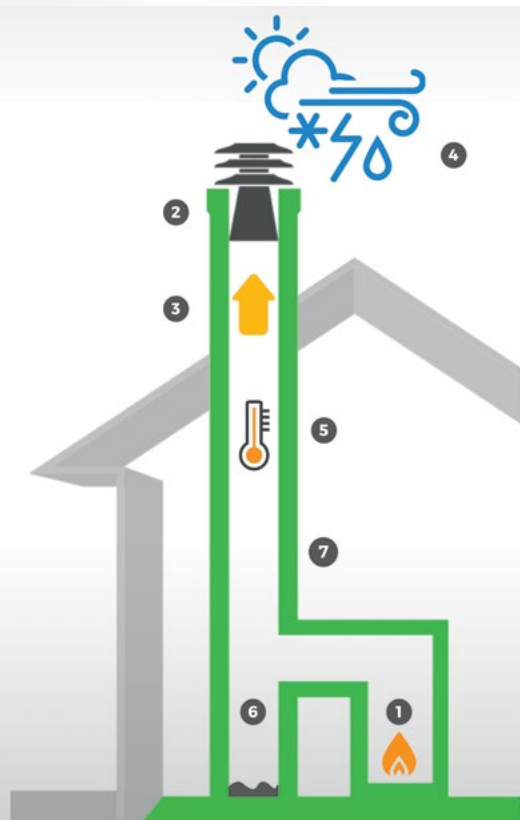
The SMARTFLOW controller is a chimney cowl, used for chimneys of any shape and cross-section. It is a kind of "canopy" for the chimney, the chimney ending protecting from flue gas reversal.

The SMARTFLOW chimney cowls can be used with many types of chimneys - regardless of the boiler type, except for the condensing boiler. We successfully use the chimney cowl for ventilation ducts. The SMARTFLOW controller makes the boiler independent of weather conditions and optimises the air and flue gas flow through the chimney.

Regardless of the fuel used, proper flow in the chimney draught allows the chimney to heat up evenly over its entire length, the flue gas reversal effect is eliminated, and the combustion is independent of current weather conditions. This allows for fuel consumption savings of up to over 40% in some cases! The price we pay for heating does not have to be that high.



RC 14



## Chimney draft regulator

### How does it work?

#### HEATING SYSTEMS WITH CONTROLLER

- 1 FUEL SAVINGS OF UP TO OVER 40%
- 2 POLLUTANTS EMISSION REDUCED BY UP TO 70%
- 3 FLUE GAS REVERSAL EFFECT ELIMINATED
- 4 HEATING SYSTEM INDEPENDENT FROM WEATHER CONDITIONS
- 5 CHIMNEY TEMPERATURE INCREASE OVER ITS ENTIRE HEIGHT
- 6 CONDENSATION REDUCED BY UP TO 80%
- 7 REDUCED CHIMNEY EROSION



POLLUTANTS EMISSION REDUCED BY UP TO 70%



5-YEAR WARRANTY



FUEL SAVINGS

OF UP TO OVER 40%

## Promotional sets for BIO boilers - wire version

### KOMFORT Set

The set includes: VIDE Room room controller and VIDE Net internet module.

VIDE Room allows you to control all parameters of the boiler from the room in which it is installed by means of a touch controller which simultaneously acts as a thermostat. VIDE NET internet module enables remote access to current information about the heating system and changing its parameters via the Internet service



### KOMFORT PLUS Set

The set includes: VIDE Room room controller, VIDE Net internet module and Lambda probe

It is an extended version of the KOMFORT set with additional Lambda probe module measuring oxygen content in flue gas. Thanks to the Lambda probe: the emission of carbon monoxide into the atmosphere is reduced, fuel consumption is reduced, the service life of boiler components is extended.



### PROFIT Set

The set includes: SMARTFLOW draught controller and Lambda probe

In the vast majority of cases, the SMARTFLOW controller allows eliminating the negative influence of atmospheric factors on the boiler operation. It limits the influence of air temperature, atmospheric pressure or wind force and direction. In combination with the Lambda probe, the set allows minimising the amount of fuel burned and the emission of harmful compounds into the atmosphere.



### PREMIUM Set

The set includes: VIDE Room room controller, VIDE Net internet module, SMARTFLOW draught controller and Lambda probe

The PREMIUM set is a combination of the maximum comfort of boiler control as well as the minimum amount of fuel burned and the emission of harmful compounds into the atmosphere.



## Promotional sets for BIO boilers – wireless version

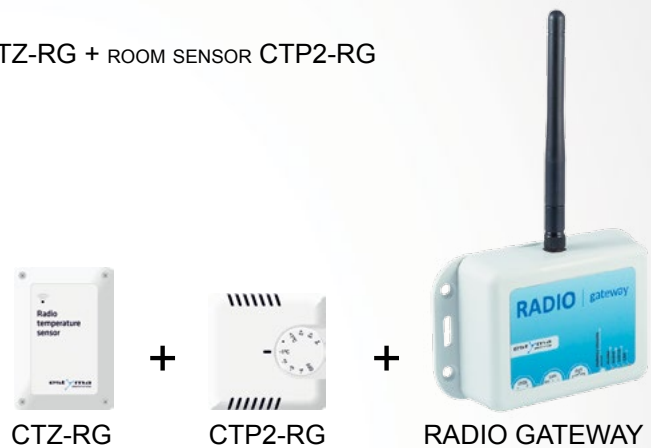
### GATEWAY set

The GATEWAY set enables wireless communication between Estyma devices. All you need is one RadioGateway to connect more wireless devices to your system. The product portfolio includes temperature sensors and room controllers, as well as outdoor temperature sensors.

The GATEWAY sets only work with Igneo **TOUCH** controllers

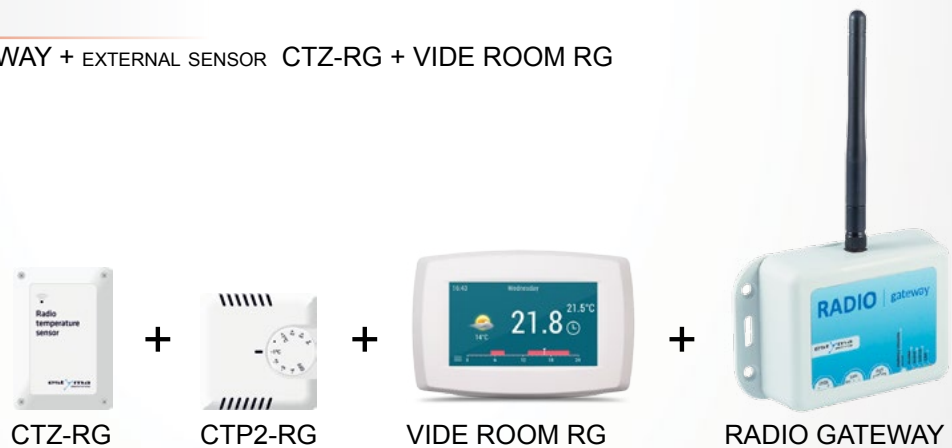
### GATEWAY 1 Set

The set includes: RADIO GATEWAY + EXTERNAL SENSOR CTZ-RG + ROOM SENSOR CTP2-RG



### GATEWAY 2 Set

The set includes: RADIO GATEWAY + EXTERNAL SENSOR CTZ-RG + VIDE ROOM RG



### GATEWAY 3 Set

The set includes: RADIO GATEWAY + EXTERNAL SENSOR CTZ-RG + VIDE ROOM RG, VIDE NET



TEKLA®

EKO KOTŁY

## KONTAKT

**PPH TEKLA** Krzysztof Tekla

ul. Lipowa 38, 43-523 Pruchna

NIP 548-164-46-17

tel. +48 33 852 12 54 · fax +48 33 857 14 29

biuro@teklakotly.pl · www.teklakotly.pl

DYSTRYBUTOR

## ZAMÓWIENIA

tel. +48 33 852 12 54

zamowienia@teklakotly.pl

## SERWIS

tel. +48 783 976 377

serwis@teklakotly.pl

## CZĘŚCI

tel. +48 607 661 728

zamienne@teklakotly.pl