TEKLA®

TO HEAT.

PRODUCT CATALOG 2020

New Heating COMFORT

ECOBOILERS

teklakotly.pl

Valid from 01.06.2020

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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

KOMFORT

MODEL 12, 18, 23

Pellet

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.

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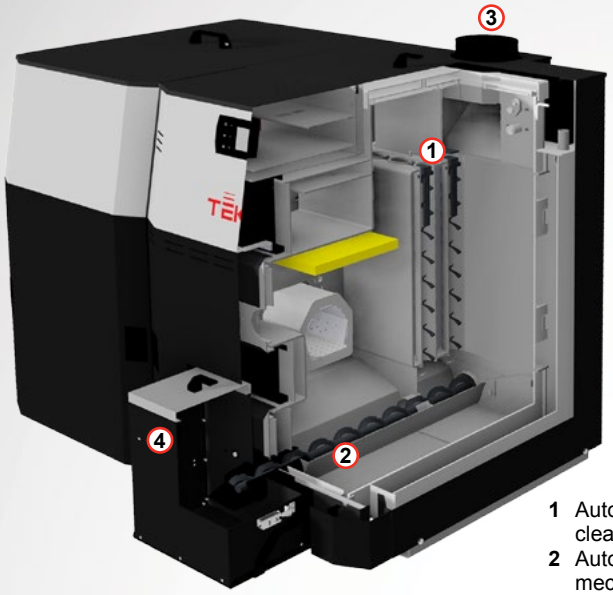

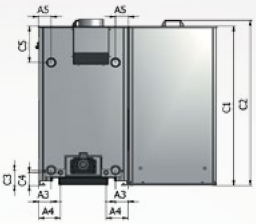

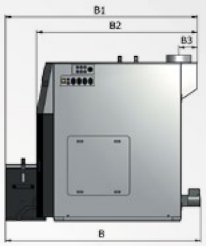

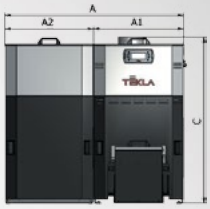

1 Automatic exchanger cleaning mechanism
2 Automatic ash removal mechanism
3 The flue at the back of the boiler points upwards
4 Ash container

		KOMFORT 12	KOMFORT 18	KOMFORT 23
A	[mm]	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

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”

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^2	1,9	2,5	3,2
Water capacity		dm^3	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	1255
	depth	mm	1260	1260	1260
	height*	mm	1120	1120	1320
Diameter of fumes outlet		mm	160		
Height to the axis of the flue*		mm	1120	1120	1320
Storage bin volume		dm^3	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

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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.

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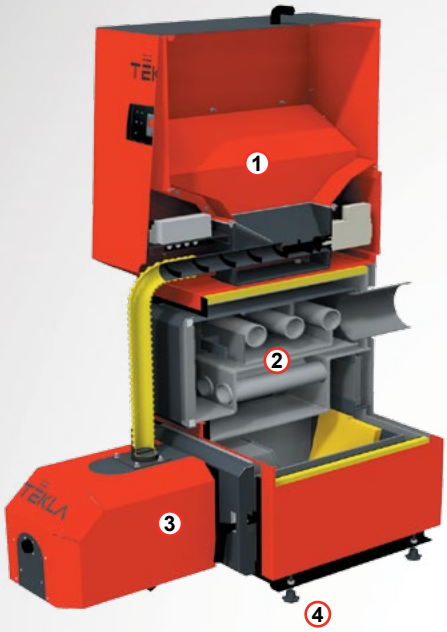

1 Fuel tank located above the exchanger

2 Fire tube and plate heat exchanger

3 Automatic pellet burner with a movable grate

4 Feet for adjusting the boiler level

		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

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

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^2	1,9	2,4	3,0
Water capacity		dm^3	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	675
	depth	mm	1230	1230	1330
	height*	mm	1550 (1750)	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^3	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

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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

DRACO D BIO

MODEL 15, 22, 30, 50

Pellet

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.

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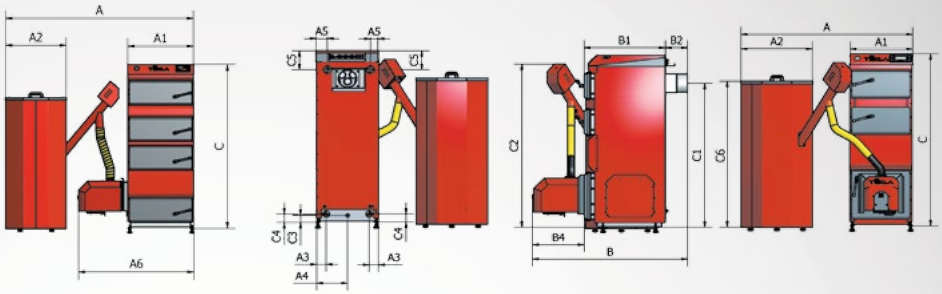
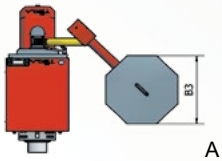


DRACO D BIO 50 DIMENSIONS
(burner on the side in standard)



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 withmovable 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^2	2,5	3,3	4,3	6,1
Water capacity		dm^3	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 ½”			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^3	240 (340/500)			340 (500)
Power consumption motoreductor/blower/igniter		W	50/45/300			50/85/300

*** 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
- 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

TEKLA®

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

DRACO D BIO LUX

MODEL 15, 22, 30

Pellet

FIREBLAST series burner with automatic cleaning

LCD boiler controller ESTYMA TOUCH as standard

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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

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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

		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	[mm]	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

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 withmovable 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 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^2	2,5	3,3	4,3
Water capacity		dm^3	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 ½”		
Dimensions of the boiler with the storage bin	width	mm	1110	1170	1170
	depth	mm	890	920	1040
	height*	mm	1440	1545	1545
Diameter of fumes outlet		mm	160		
Height to the axis of the flue*		mm	1180	1290	1290
Storage bin volume		dm^3	200	240	
Power consumption motoreductor/blower/igniter		W	50/45/300		

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

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

TEKLA®

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

DRACO BIO

MODEL 12, 35

Pellet

FIREBLAST series burner with automatic cleaning

LCD boiler controller ESTYMA TOUCH as standard

DRACO BIO 12

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.

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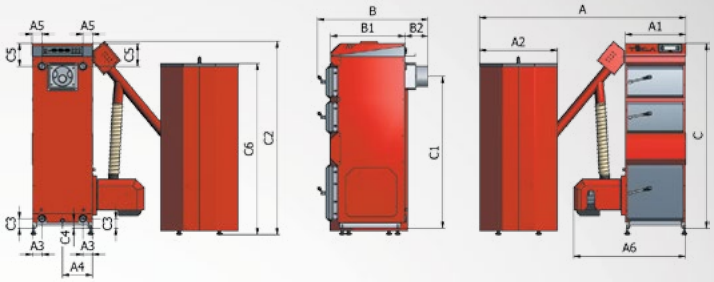
DRACO BIO 35

1 Fire tube and plate heat exchanger

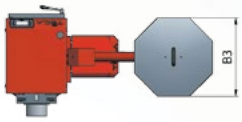
2 System of ceramic catalysts and steel inserts

3 Automatic self-cleaning burner with movable grate

4 Feet for adjusting the boiler level



DRACO BIO 12



		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

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 withmovable 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

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^2	1,8	4,5
Water capacity		dm^3	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 ½”	
Dimensions of the boiler with the storage bin	width **	mm	1550	1650
	depth	mm	770	1020
	height*	mm	1500	1545
Diameter of fumes outlet		mm	145	160
Height to the axis of the flue*		mm	845	1290
Standardowa (opcjonalna) pojemność zasobnika		dm^3	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

TEKLA®

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

DRACO BIO

MODEL 75, 150

Pellet

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.

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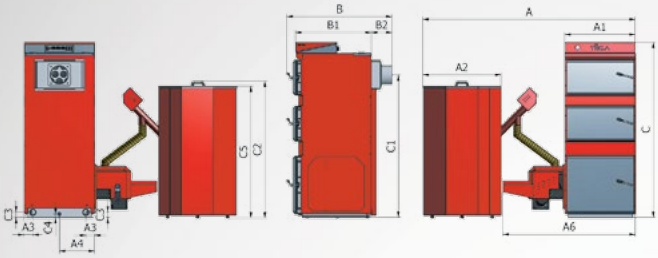
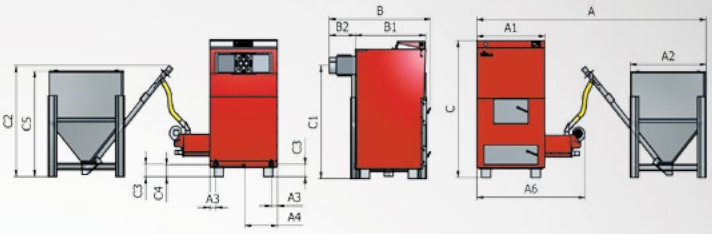
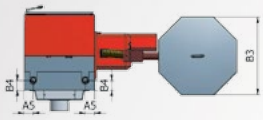
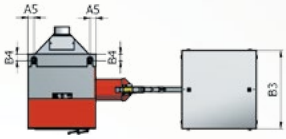


DRACO BIO 75 DIMENSIONS



DRACO BIO 150 DIMENSIONS





Tank 1000 kg or 1500 kg

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

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

PARAMETER		SI	DRACO BIO 75	DRACO BIO 150
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^2	8,2	16,9
Water capacity		dm^3	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	3730
	depth	mm	1140	1650
	height	mm	1900	2115
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

*** 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
- 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

TEKLA®

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

TYTAN BIO

MODEL 20, 25, 30

Pellet

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.

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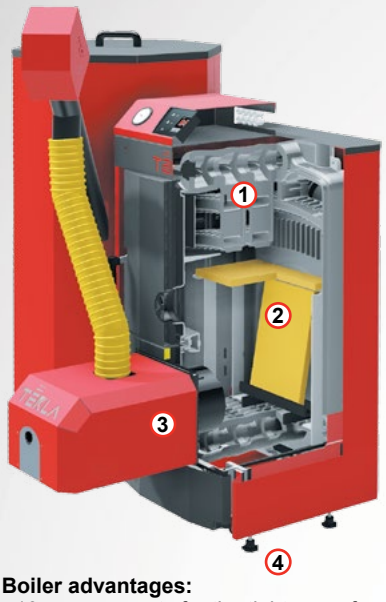
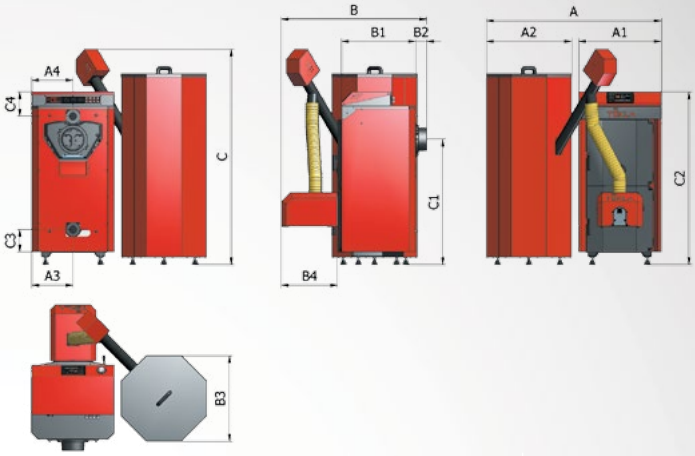


1 4 pass flue gas circulation principle

2 Ceramic catalysts

3 Palnik na pellet FIREBLAST z automatycznym czyszczeniem

4 Feet for adjusting the boiler level



		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	

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

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^3	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^3		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

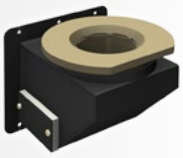
TEKLA®

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

DRACO D

MODEL 15, 25, 50

Pea coal



A retort burner with a scroll fuel conveyor

SELECT

Regulator kotła z podajnikiem ślimakowym - obsługa dwóch mieszaczy i DHW

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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.

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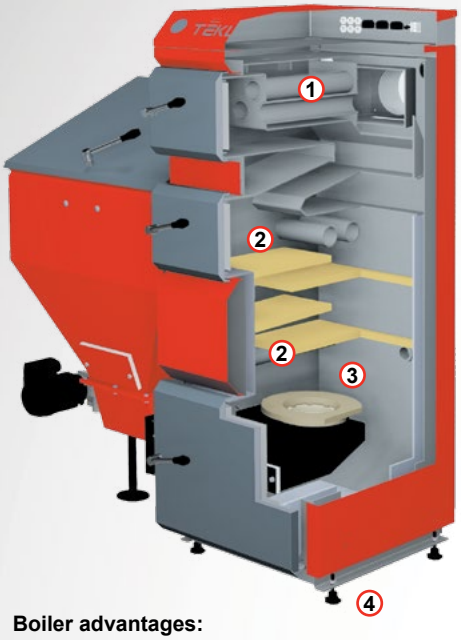
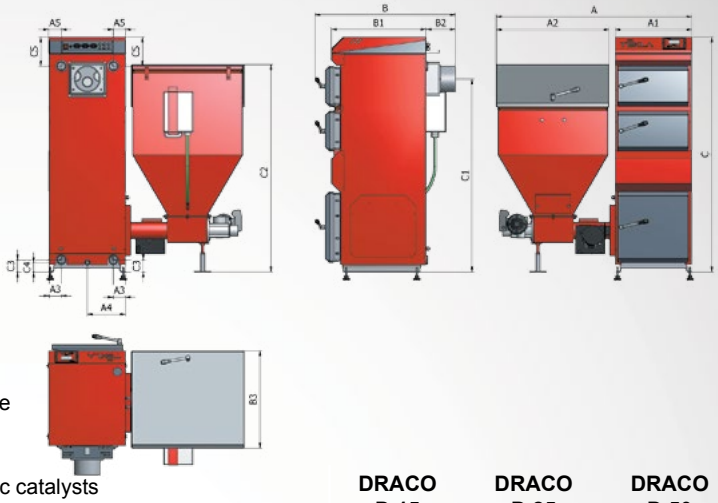




1 Fire tube and plate heat exchanger

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	[mm]	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

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^2	2,5	3,3	6,1
Water capacity		dm^3	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 ½”		
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^3	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

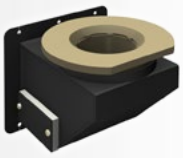
TEKLA®

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

DRACO

MODEL 35

Pea coal



A retort burner with a scroll fuel conveyor

SELECT
An electronic regulator

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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.

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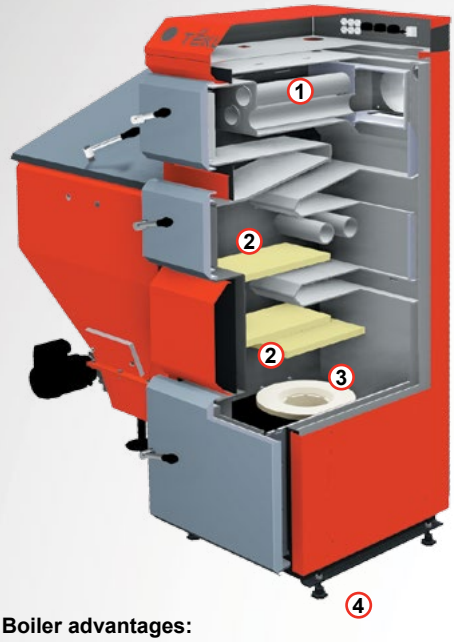
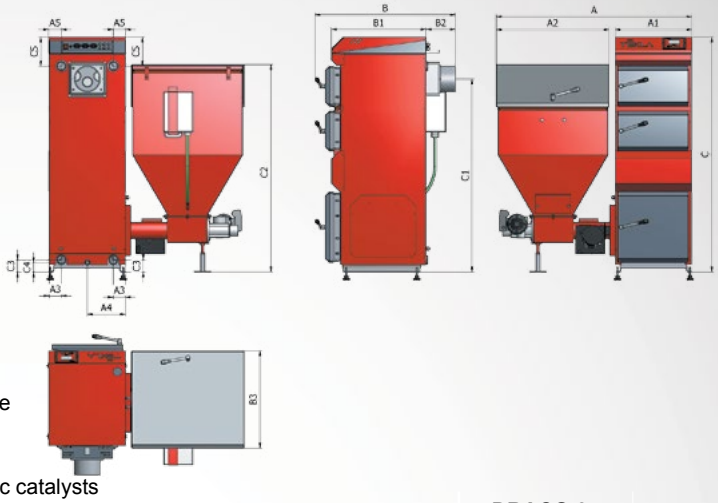




1 Fire tube and plate heat exchanger

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^2	4,5
Water capacity		dm^3	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^3	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

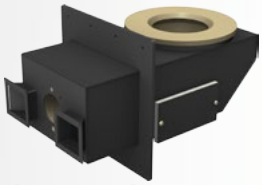
TEKLA®

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

DRACO

MODEL 75, 150

Pea coal



A retort burner with a scroll fuel conveyor

SELECT
An electronic regulator

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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.

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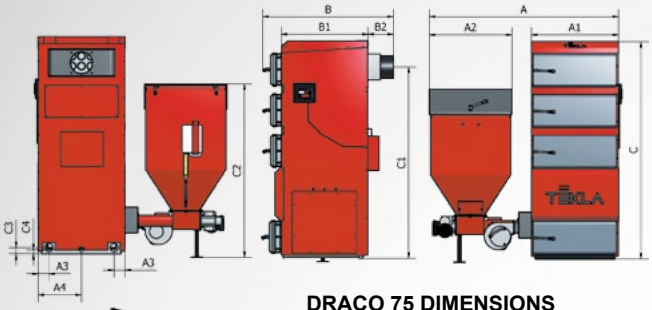
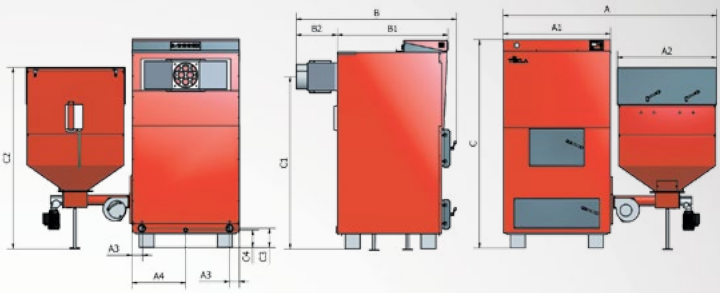
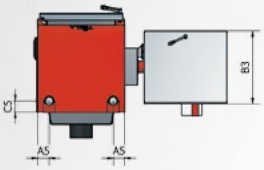


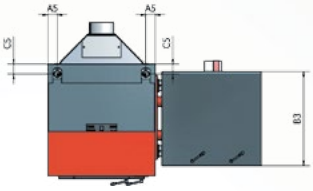
DRACO 75 DIMENSIONS

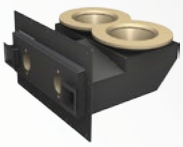


DRACO 150 DIMENSIONS



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





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^2	9,2	16,9
Water capacity		dm^3	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^3	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

TEKLA®

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.

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)

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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

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.

EFL 3

Estyma Fuzzy Logic 3 Third version of the furnace ouput 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.

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SMARTFLOW - draft regulator kominowego

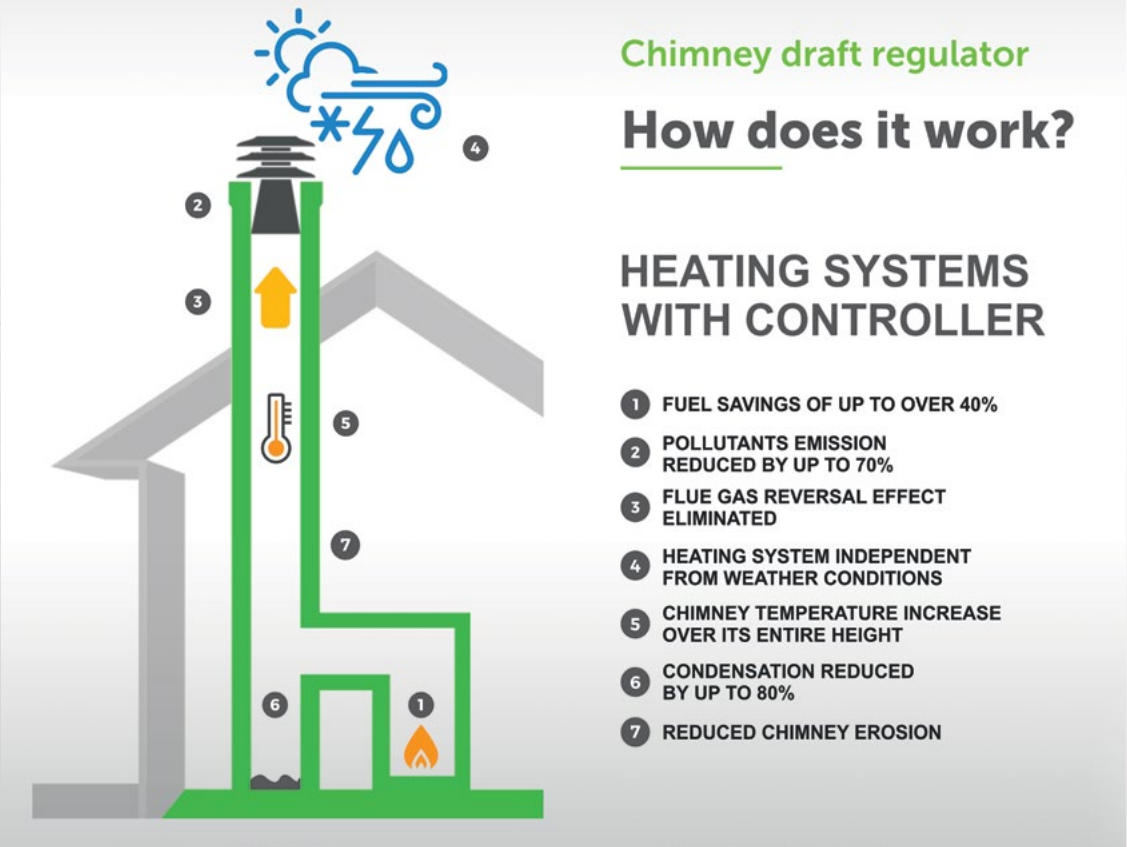
The SMARTFLOW controller is a chimney cowl, used for chimneys of any shape and cross-section. It is a kind of “canopy” for the chimney, the chimney ending protecting from flue gas reversal.

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/O

RC 14



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 modulet, 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.

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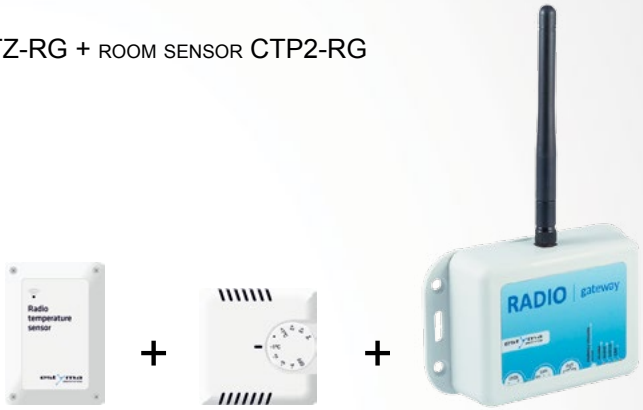
Promotional sets for BIO boilers — wireless version

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



CTZ-RG + CTP2-RG + RADIO GATEWAY

GATEWAY 2 Set

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

CTZ-RG + CTP2-RG + VIDE ROOM RG + RADIO GATEWAY

GATEWAY 3 Set

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

CTZ-RG + CTP2-RG + VIDE NET RG + VIDE ROOM RG + RADIO GATEWAY

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EKOKOTŁY

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SERIA 09/2020