DOMUSA
TEKNIK

BIOMASS BOILERS

BIOCLASS iC

3 OPTIONS
BIOCLASS IC
BIOCLASS IC + DR
BIOCLASS IC 66

- > SMARTPHONE CONNECTIVITY
- > EASY TO USE
- > AUTOMATIC CLEANING
- > "FLAME LOGIC" COMBUSTION CONTROL
- > EASY INSTALLATION
- > POWER RANGE FROM 12 kW TO 66 kW



iConnect

The most advanced technology
at the most reasonable price

ErP Compliant CLASS A+

CLASS 5 AS PER EN 303/5

BIOCLASS iC

Controlling the boiler through a smartphone

Range from 12 kW to 66 kW with one more model at 35 kW.

Pellet boilers with standard WiFi network connectivity installed through iConnect technology providing the following remote functions, among others:

- Starting up and shutting down the equipment.
- Changing hot water and heating temperatures.
- Providing information on use over time (consumption, ash pan filling status, etc.).
- Receiving alerts and suggestions.
- Programming equipment operating times, etc.

CONNECTIVITY iConnect iC

The BIOCLASS IC product range allows customers to control the boiler, as well as other installation components, through the Internet by using an APP, provided a WiFi network is available at the boiler installation site.

FLAME LOGIC

The BIOCLASS IC includes an intelligent "FLAME LOGIC" combustion control system that constantly analyses flame and air flow quality to ensure optimal combustion of the granulated biomass product.

WARRANTY

Due to the high quality of the materials in the construction of the BIOCLASS, DOMUSA TEKNIK offers a 5 year warranty on the heat exchanger and 2 years on hydraulic and electric components.

COMFORT

DOMUSA TEKNIK's fully automatic burner and the heat exchanger cleaning system provide high comfort and convenience to the end user. The cleaning of the burner is specially designed to treat high-strength and unburned ash to ensure both durability and minimal maintenance of the equipment.



EASY INSTALLATION

BIOCLASS IC boilers are equipped with an innovative system to preheat return water. The HotStream system avoids complicated mixing systems and prevents condensation caused by cold return in the installation. The preheating system can be used with direct returns from the boiler as high as 25º, thus allowing direct installation regardless of the type of hydraulic configuration of the installation.

There is also a wide range of optional hydraulic kits available to solve the most diverse home installation needs. All the hydraulic kits are fitted with a regulating system that controls the flow temperature according to the exterior temperature, optimising installation consumption. Among the various configurations that can be set up with these kits are underfloor heating systems for two areas with different flow temperatures.

AUTOMATIC CLEANING

Boiler cleaning is fully automatic. A set of cleaning springs that retain flue gases improve performance, while at the same time clean ash residues in the heat exchanger.

The cleaning springs are connected to the shaft of a motor via a cam system that regularly moves them vertically, thus cleaning the heat exchanger.

The burner has an automatic ash cleaning system. The lower part of the combustion chamber has a cleaning system to send ashes generated in the combustion periodically to the ashtray. This system cleans the ashes even when the burner is operating, which allows cleaning without having to switch off the boiler. This optimises fuel consumption performance and maximises comfort.

EFFICIENCY

The BIOCLASS boiler reduces fuel consumption by recovering temperature inversion in less time.

This is achieved by boiler efficiency and electronic modulation.

MODULATION

The boiler body and heat exchanger are designed for the gases to yield as much heat as possible to the heating fluid and throughout the installation.

This creates unbeatable burning performance, especially at reduced power levels.



BIOCLASS IC

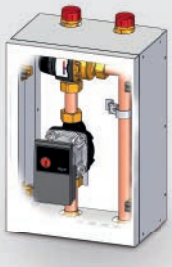


BIOCLASS IC + DR

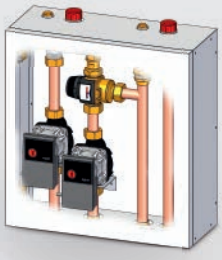


BIOCLASS IC 66

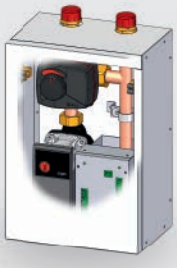
HYDRAULIC KITS



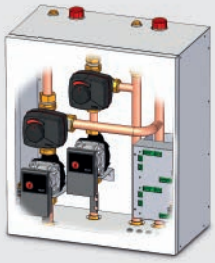
Hydraulic kit
Mt



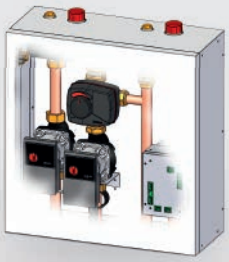
Hydraulic kit
DMt



Hydraulic kit
BIO M



Hydraulic kit
BIO 2M



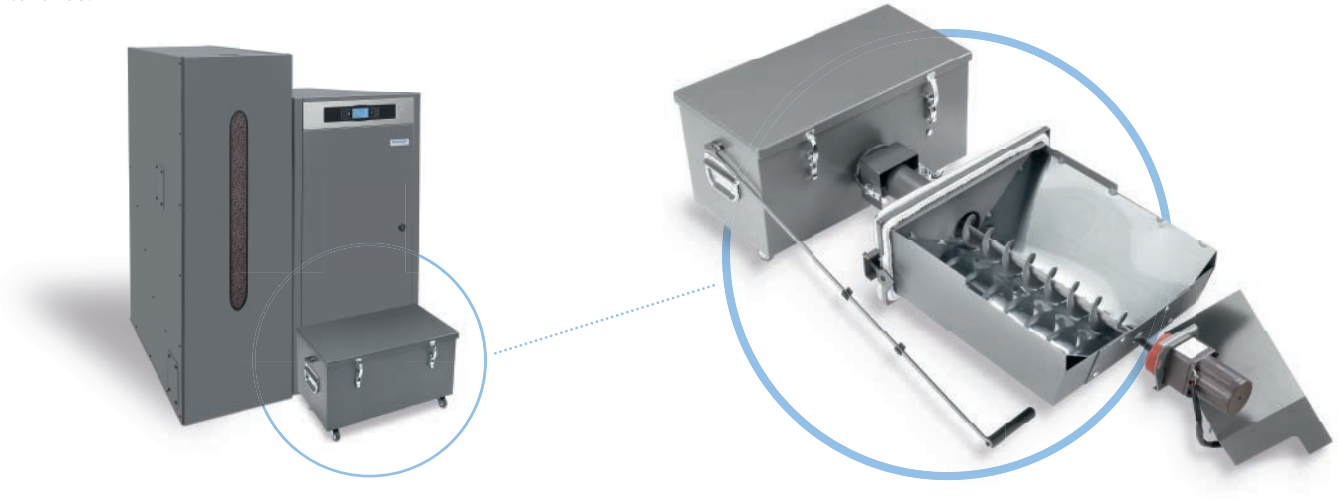
Hydraulic kit
BIO DM/MS

BIO DM Kit

BIO MS Kit

COMPRESSOR ASHTRAY

A compressor ashtray may be incorporated to the boiler to reduce ashtray emptying frequency. It has an ash compression system to reduce the amount of ashtray maintenance.





SILO

There is a wide range of canvas silos available as an additional extra for the CVS automatic loading system.

These silos are quick and easy to assemble: no bolts or specific tools are required and assembly takes just 30 minutes using an Allen key. Their galvanised steel structure with cast iron parts, set screws and intermediate supports make them both visually attractive and long-lasting.

They are made of heavy duty technical fabric which allows static electricity to be discharged to the buildings or the boiler's earth. The canvas allows ventilation of the pellets inside but prevents dust from escaping, so its filling systems do not require two Storz fittings.

They are made of heavy duty canvas with reinforced seams, preventing condensation caused by temperature variations.

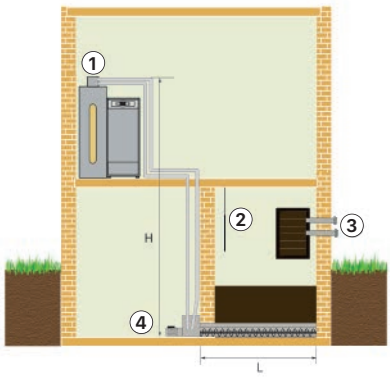
They can be installed outdoors if protected from rain and direct sunlight.

Model	Capacity*	Dimensions		
	Tm	Surface area m^2	Height m	Volume m^3
Silo 2.0	1,8-2,5	1,45 x 1,45	2 / 2,5	3,2 - 3,8
Silo 3.0	2,2-3,0	1,75 x 1,75	2 / 2,5	3,8 - 4,7
Silo 4.0	3,0-4,1	2,05 x 2,05	2 / 2,5	5,1- 6,4
Silo 5.0	3,7-5,2	2,25 x 2,25	2 / 2,5	6,2 - 8,0

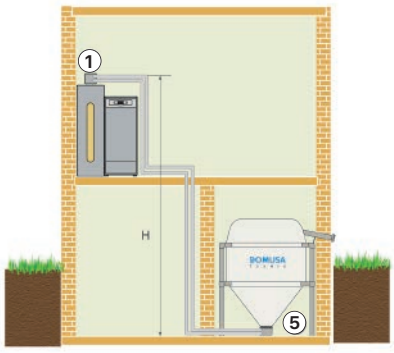
** The capacity of the silos depends on the type, density and quality of the pellets used, such as the height of the premises.*

AUTOMATIC LOADING SYSTEM

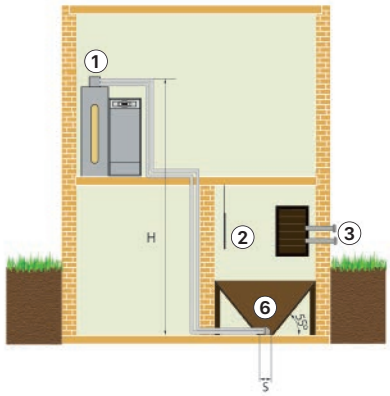
PELLET LOADING SYSTEM FOR HOMEMADE SILO AND AUGER



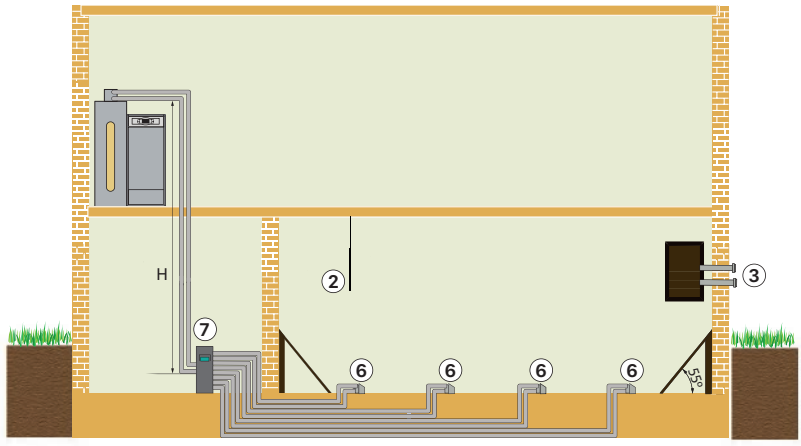
LOADING SYSTEM WITH A CANVAS SILO



LOADING SYSTEM WITH A HOMEMADE SILO AND A FIXED VACUUM SYSTEM



PELLET LOADING SYSTEM FOR HOME MADE SILO AND NOZZLE CHANGER KIT



DESCRIPTION

1. CVS vacuum unit
2. Impact protection canvas
3. Storz filling connection pipe
4. Homemade silo auger
5. Silo
6. Homemade silo suction nozzle
7. Automatic nozzle changer kit

MAX. HEIGHT (H)	m	6
MAX. SURFACE AREA (S)	m^2	1
MAX. LENGTH	m	25
MAX. LENGTH AUGER (L)	m	5

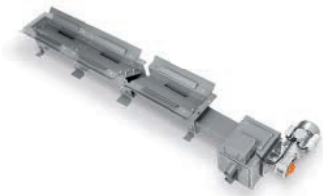
OPTIONS



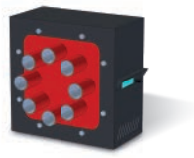
Coupling kit for L hopper



Flexible hose



Homemade silo auger 1.5



Automatic nozzle changer kit



Canvas silo vibrator kit

HOMEMADE SILO EQUIPMENT



Storz filling connection pipe



Impact protection canvas

CVS vacuum unit

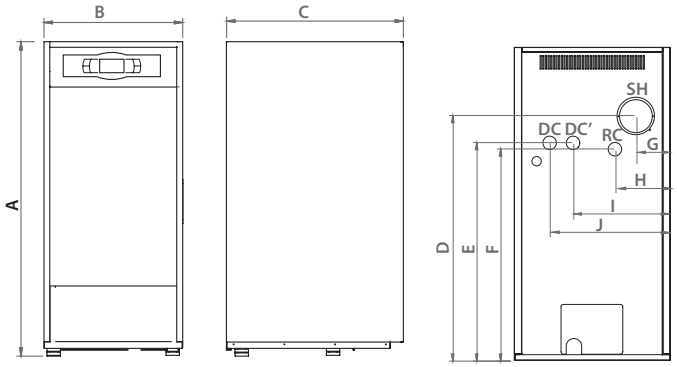


TECHNICAL CHARACTERISTICS

Model	FUEL	NOMINAL POWER kW	PERFORMANCE AT NOMINAL POWER	PARTIAL CHARGE POWER kW	PERFORMANCE PARTIAL CHARGE POWER kW	WATER CONTENT L	BUFFER TANK
BIOCLASS IC 12	Pellet	12	93.1	2.9	90	46	Optional
BIOCLASS IC 18	Pellet	18	94	4.2	90.6	55	Optional
BIOCLASS IC 25	Pellet	25.3	93.1	6.9	93.2	73	Optional
BIOCLASS IC 35	Pellet	34	93.6	9.5	93.2	88	Optional
BIOCLASS IC 45	Pellet	45	94.2	11.4	93.1	104	Optional
BIOCLASS IC 12 + DR	Pellet	12	93.1	2.9	90	46	Standard
BIOCLASS IC 18 + DR	Pellet	18	94	4.2	90.6	55	Standard
BIOCLASS IC 25 + DR	Pellet	25.3	93.1	6.9	93.2	73	Standard
BIOCLASS IC 35 + DR	Pellet	34	93.6	9.5	93.2	88	Standard
BIOCLASS IC 45 + DR	Pellet	45	94.2	11.4	93.1	104	Standard
BIOCLASS IC 66	Pellet	66.6	94.9	18.5	95.2	140	Standard

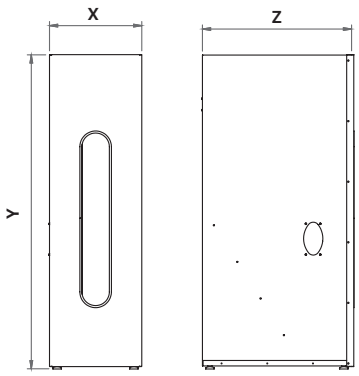
DIMENSIONS

Boiler



DC: Hot water intake
DC': Optional hot water intake
RC: Hot water return
SH: Fume exhaust

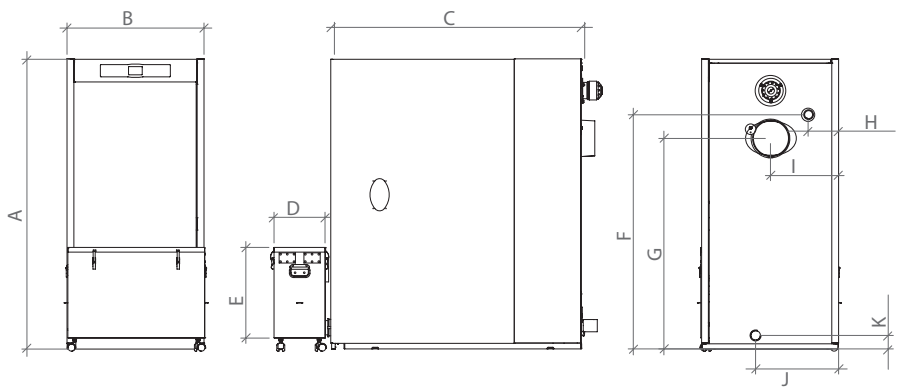
Buffer tanks



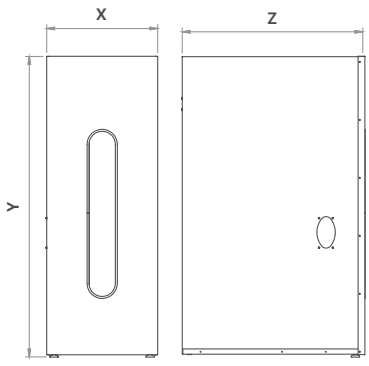
MODEL	A	B	C	D	E	F	G	H	I	J	Ø FUME EXHAUST mm
BIOCLASS IC 12 / IC 12+DR	1,310	545	755	960	860	835	155	260	340	440	100
BIOCLASS IC 18 / IC 18+DR	1,310	545	755	960	860	835	120	225	305	400	100
BIOCLASS IC 25 / IC 25+DR	1,310	670	820	1,050	935	905	145	235	410	510	100
BIOCLASS IC 35 / IC 35+DR	1,310	670	1,045	1,050	935	905	145	235	410	510	150
BIOCLASS IC 45 / IC 45+DR	1,310	670	1,045	1,050	935	905	145	235	410	510	150

MODEL	X	Y	Z
Buffer tank S	404	1,525	685
Buffer tank L	800	1,525	685
Buffer tank BIOCLASS IC + DR	400	1,310	685

Boiler



Buffer tank BIOCLASS IC 66



MODEL	A	B	C	D	E	F	G	H	Y	J	K	Ø FUME EXHAUST mm
BIOCLASS IC 66	1,525	670	1,235	260	445	1,195	1,110	130	335	562	113	175

MODEL	X	Y	Z
Buffer tank IC 66	800	1,525	685

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CERTIFICATION ISO 9001 | ISO 14001 | ISO 45001
HUMANITY AT WORK
MONDRAGON

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