



Together we bring
warmth and quality
to people's lives



HISTORY

Founded in 1973, Ptolemaida (Northern Greece) based THERMODYNAMIKI S.A., provides heating products and specialized metal constructions to a broad range of commercial and industrial clients throughout Europe. Anchored by loyal employees who are dedicated to providing superior service, and grounded in the philosophy that honesty and integrity are as important as the bottom line, THERMODYNAMIKI S.A. (Kombi) has enjoyed an impeccable reputation for over 40 years.

PRESENT

THERMODYNAMIKI S.A. is one of the most dynamically involved companies in the heating (hot water and warm air) industry with an ongoing development of new products and services. This goal is achieved by having the demanded industrial machinery, fully specialized and certified personnel working in every project. The company has gained important experience and achieved important specialization in all the aspects of the products. Finally, the prolonged professional activity of the company combined with its technical expertise, has developed loyalty with the suppliers, partners and customers of the company.

PREMISES

In an area of 4500 sqm with industrial facilities of 3200 square meters and with the use of modern industrial equipment, THERMODYNAMIKI has in its premises an advanced research and development laboratory that its aim is to research and develop new products with the large efficiency rate and with environmentally friendly operation.

QUALITY - CERTIFICATES

In all its operations, THERMODYNAMIKI is practicing the Quality Assurance System ISO 9001:2015 and all the company products are produced according to EN standards with CE certifications.



NTUA
CERTIFIED



Why Kombi

- **Trust, market awareness and commitment**, qualities earned over time because we are in the heating industry since 1973.
- **Passionate with evolution**, with in house R&D Department.
- **Common vision and values with our partners**, our work ethic to support, guide and create projects together.
- **Adaptability and flexibility to your needs and expectations** are addressed by the wide range of power and different fuel products.

PRODUCTS

Our products are CE certified and with high efficiency. Moreover, the company has developed a high technological background concerning special steel constructions through its long experience and modern mechanical equipment:

- Steel solid fuel and oil/gas boilers up to 1163 kW
- Energy Fireplaces up to 35 kW
- Solid fuel warm air generators up to 296 kW
- Complete heating units
- Biomass burning steel boilers up to 500 kW
- Solar Heating
- Steel oil tanks



EXPORTS

The rising exporting activity of THERMODYNAMIKI is providing to the company the ability to enter in new national markets. The exports are spread in countries of:

- South East Europe (Albania, Bulgaria, Kosovo, Serbia, FYROM, Slovenia, Croatia, Bosnia Herzegovina, Moldavia, Poland, Romania)
- Central Europe (Austria, Germany)
- East Europe (Russia, Ukraine)
- South Europe (Spain, Portugal, Italy, Cyprus)
- West Europe (Great Britain and Ireland)
- And countries outside Europe like Canada, Afghanistan, Iraq, Algeria and Palestine.



stratos

Firewood gasification boiler

Output

30-46kW



FEATURES:

- Manufactured according to the EU directive EN 303-5:2012
- High efficiency rate at 88,9%
- Great autonomy
- Low emissions and emission control with Lambda sensor
- Electronic control panel with power and water temperature regulation

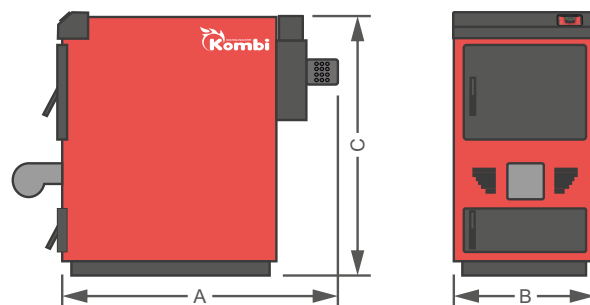
FUEL TYPES



FIREWOOD



BRIQUETTE



TECHNICAL FEATURES

TYPE	stratos 30	stratos 46
Output (kW)	30	46
Water Capacity (l)	150	150
Boiler Connections (in)	1 ½	1 ½
Safety Valve Connections (in)	¾	¾
Length (mm) / A	1.550	1.550
Width (mm) / B	650	650
Height (mm) / C	1.450	1.450
Combustion chamber Dim. (mm) / LxWxH	600x450x470	600x450x470
Chimney Ø (mm)	150	150
Max Operating Temperature (°C)	90	90
Max Operating Pressure (bar)	2,5	2,5
Operating voltage (V)	220	220
Weight (kg)	540	540

ACCESSORIES

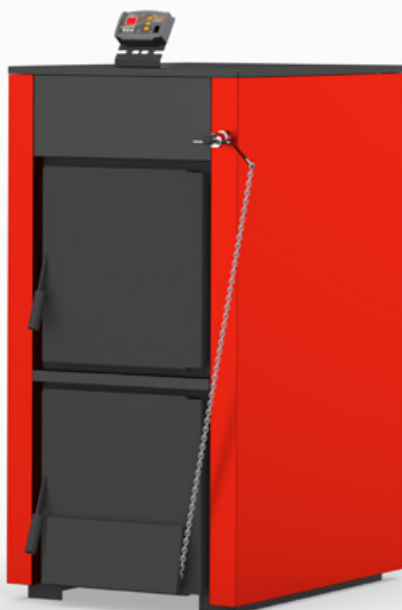
	AUTO 60 ELECTRONIC CONTROL PANEL	LCD touch screen Power regulation from the menu Room thermostat connection Fan RPM regulation Pump operation Automatic burning regulation via water and fumes temperature Weekly programmer
	LAMBDA	Lambda sensor
SAFETY VALVES		2 x T&P + 1 TMIX

kn

Firewood boiler

Output

18-80kW



FEATURES:

- CE certified according to directive 97/23/EC, B1
- Natural draught
- Secondary air regulation
- Water containing grid
- Large feeding door for easy supply of firewood
- Minimal maintenance needs
- Large heat exchange with water
- Chimney draught damper
- Easy cleaning
- + Optional: Control panel with touch screen, fan regulation, room thermostat connection, burning regulation with water and fumes control (auto 40)
- + Optional: Retrofit of an automation to burn also bio-mass (pellet, olive husk etc) (pa/at/sf models)



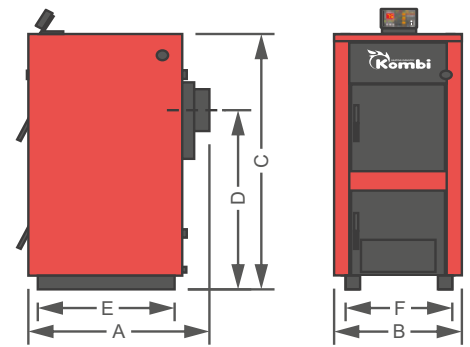
FUEL



FIREWOOD



BRIQUETTE



TECHNICAL FEATURES

TYPE	kn 18	kn 30	kn 50	kn 70	kn 80
Output (kW)	18	30	50	70	80
Water Capacity (l)	66	110	125	210	202
Boiler Connections (in)	1	1 ¼	1 ½	2	2
Safety Valve Connections (in)	2 x ¾	2 x ¾	2 x ¾	2 x ¾	2 x ¾
Length (mm) / A	820	820	910	1.100	1.100
Width (mm) / B	540	540	610	680	680
Height (mm) / C	1.170	1.270	1.290	1.515	1.515
Chimney Center Height (mm) / D	800	810	900	1.015	1.015
Base Dimensions (mm) / E x F	476x525	476x585	548x660	620x810	620x810
Combustion Chamber Dim. (mm) / LxWxH	480x380x460	520x380x530	600x450x550	740x520x600	740x520x600
Feeding Door Dimensions (mm)	310x390	310x390	350x430	460x520	460x520
Firewood Capacity (kg)	40	55	75	100	100
Chimney Ø (mm)	180	200	200	200	200
Max Operating Temperature (°C)	90	90	90	90	90
Max Operating Pressure (bar)	2,5	2,5	2,5	2,5	2,5
Operating voltage (V)	220	220	220	220	220
Weight (kg)	195	242	300	400	412

ACCESSORIES

	CAW ANALOGUE CONTROL PANEL	Analogue pump control Thermometer Thermostat
	ST 21 DIGITAL CONTROL PANEL	Digital control panel for pump Anti freeze protection Anti stop protection
	Mther	Draught Regulator
	ST 28 DIGITAL CONTROL PANEL WITH FAN	Digital control panel for fan Thermostat connection DHW pump control Fan rpm control Included fan
	AUTO 40 ELECTRONIC CONTROL PANEL	Thermostat connection fan rpm and pump control Auto regulation via water and fume temperature
SAFETY VALVES 18 TO 50		2 x T&P
SAFETY VALVES 70 TO 80		1 x T&P + 1 x TMIX

kn industrial

Firewood boiler

Output

110-450kW



FEATURES:

- CE certified according to directive 97/23/EC, B1
- Large feeding door for easy supply of firewood
- 3rd cleaning door
- Large heat exchange with water
- Minimal maintenance needs
- Large heat exchange with water
- Large combustion chamber
- Digital control panel with power and water temperature regulation
- Chimney draught damper
- Easy cleaning
- Water containing grid
- + Optional: Control panel with touch screen, fan regulation, room thermostat connection, burning regulation with water and fumes control (auto 40)
- + Optional: Retrofit of an automation to burn also bio-mass (pellet, olive husk etc) (pa/at/sf models)



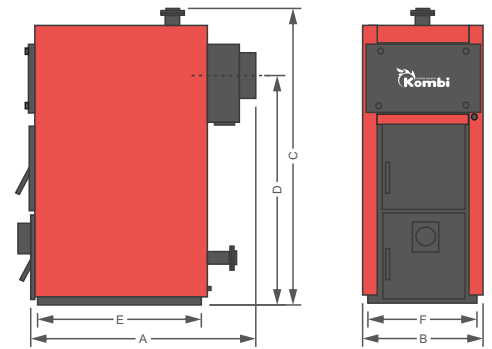
FUEL



FIREWOOD



BRIQUETTE



TECHNICAL FEATURES

TYPE	kn 110	kn 160	kn 200	kn 250	kn 350	kn 450
Output (kW)	110	160	200	250	350	450
Water Capacity (l)	250	292	324	525	423	540
Boiler Connections (in)	2 ½	3	3	3	4	4
Safety Valve Connections (in)	4 x ¾ 1 x 1 ¼ 1 x ½	4 x ¾ 1 x 1 ¼ 1 x ½	4 x ¾ 1 x 1 ¼ 1 x ½	4 x ¾ 1 x 1 ¼ 1 x ½	4 x ¾ 1 x 1 ¼ 1 x ½	4 x ¾ 1 x 1 ¼ 1 x ½
Length (mm) / A	1.300	1.510	1.510	1.510	1.780	2.020
Width (mm) / B	730	820	820	820	1.070	1.080
Height (mm) / C	1.820	1.960	2.300	2.300	2.400	2.630
Chimney Center Height (mm) / D	1.500	1.500	1.825	1.825	1.950	2.165
Base dimensions (mm) / E x F	970 x 670	1.105 x 760	1.105 x 760	1.105 x 760	1.330 x 960	1.460 x 1.020
Chimney Ø (mm)	250	250	300	300	300	350
Max Operating Temperature (°C)	90	90	90	90	90	90
Max Operating Pressure (bar)	2,5	2,5	2,5	2,5	2,5	2,5
Operating voltage (V)	220	220	220	220	220	220
Weight (kg)	636	870	1.025	1.257	1.511	2.000

ACCESSORIES

	ST 28 DIGITAL CONTROL PANEL	Room Thermostat connection Fan RPM regulation Pump control DHW pump control
	KM 133	For kn 110
	CBM 2	260W For kn 160 – 350
	CMB 4	150W For kn 450
	AUTO 40 ELECTRONIC CONTROL PANEL	Thermostat connection fan rpm and pump control Auto regulation via water and fume temperature
SAFETY VALVES 110		2 x T&P + TMIX
SAFETY VALVES 160 TO 450		1 x T&P + TMIX + VTFN

cpb

Compact pellet boiler

Output

18-25kW



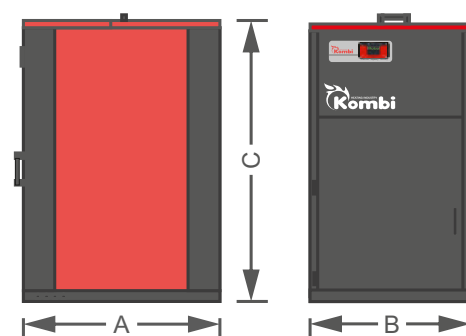
FEATURES:

- Manufactured according to the European directive EN 303-5:2012
- CE certified
- Easy cleaning
- Cylindrical combustion chamber
- Minimum maintenance needs
- + Optional: Lambda sensor
- + Optional: GSM remote control

FUEL



PELLE



TECHNICAL FEATURES

TYPE	cpb 18	cpb 25
Output (kW)	18	25
Water Capacity (l)	50	50
Boiler Connections (in)	1	1
Length (mm) / A	840	840
Width (mm) / B	660	660
Height (mm) / C	1.170	1.170
Silo Capacity (l)	140	140
Expansion vessel (l)	12	12
Feeder motor Output	220 V ~ 0,24 A ~ 50 Hz ~ 11 rpm	
Fan Output (W)	52	52
Chimney Ø (mm)	80	80
Max Operating Temperature (°C)	90	90
Max fumes temperature (°C)	190	190
Max Operating Pressure (bar)	3	3
Operating voltage (V)	220	220
Weight (kg)	215	215

ACCESSORIES

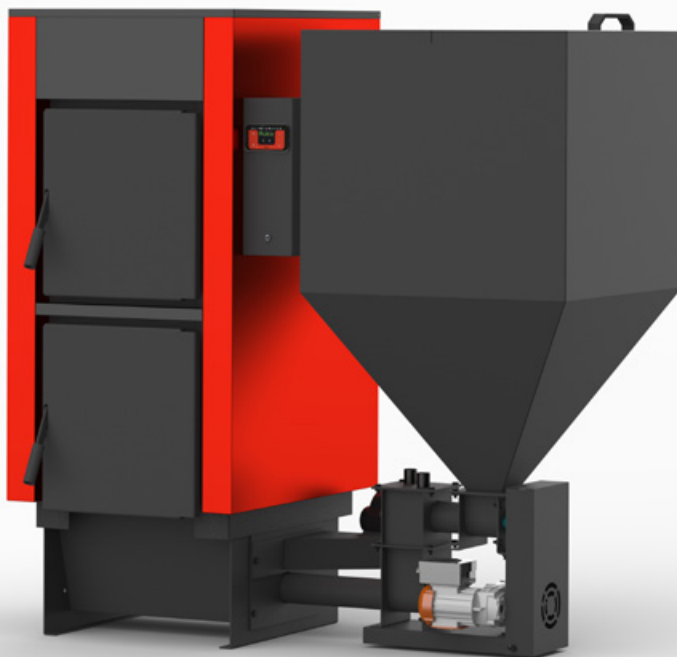
	AUTO 40 ELECTRONIC CONTROL PANEL	Auto ignition room thermostat connection fan rpm regulation pump control Auto burning regulation via water and fumes temperature Weekly programmer
	LCD TOUCH SCREEN	

kn-pa

Firewood & pellet boiler

Output

28-56kW



FEATURES:

Manufactured according to the European directive EN 303-5:2012

Complete heating system:

- Auto exchange from firewood to pellet
- Electronic control panel with touch screen
- Auto ignition with burning regulation via water and fumes temperature
- Room thermostat connection
- Overheating safety kit
- Biomass hearth made of stainless steel
- Dual fire safety system
- Easy cleaning and maintenance
- + Optional: Lambda sensor
- + Optional: Ash extraction

FUEL



PELLET



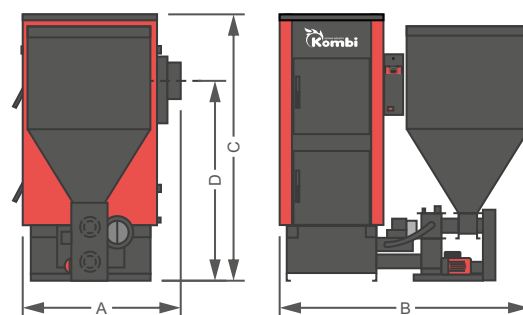
FIREWOOD



COAL



BRIQUETTE



TECHNICAL FEATURES

TYPE	kn-pa 18	kn-pa 30	kn-pa 50
Output in Firewood (kW)	18	30	50
Output in Pellets (kW)	28	40	56
Water Capacity (l)	66	110	125
Boiler Connections (in)	1	1 ¼	1 ½
Safety Valve Connections (in)	2 x ¾	2 x ¾	2 x ¾
System Length (mm) / A	820	820	910
System Width (mm) / B	1.200	1.280	1.440
System Height (mm) / C	1.450	1.570	1.590
Chimney Center Height (mm) / D	1.080	1.100	1.190
Silo Capacity (m³)	0,31	0,31	0,31
Feeder motor Output (W)	90	90	90
Fan Output (W)	90	90	90
Chimney Ø (mm)	180	200	200
Max Operating Temperature (°C)	90	90	90
Max Operating Pressure (bar)	2,5	2,5	2,5
Operating voltage (V)	220	220	220
Weight (kg)	324	354	424

ACCESSORIES

	AUTO 40 ELECTRONIC CONTROL PANEL	Auto ignition Auto exchange from Firewood to pellets Room thermostat connection Fan rpm regulation pump control Auto burning regulation via water and fumes temperature Weekly programming
	AUTO 60 ELECTRONIC CONTROL PANEL	With extra operations from AUTO 40 LCD ui Auger and fan regulation via the menu Options for: Lambda sensor, Ash extraction, External feeding (secondary auger control)
	LAMBDA	Lambda sensor (connects with AUTO 60)
AUTO ASH EXTRACTION		Auto ash extraction with one auger (connects with AUTO 60)
	EU 37 DIGITAL CONTROL PANEL	Burning control Feeding control DHW and charging pump control Room thermostat connection Optional connection with GSM or ETHERNET LCD screen Overheating feeder sensor Thermal safety Does not have auto ignition and automatic burning control
SAFETY VALVES		2 x T&P + TFIRE

kn-at

Firewood & biomass boiler

Output

30-98kW



FEATURES:

Manufactured according to the European directive EN 303-5:2012

CE marked according to the directive 97/23/EC, B1 and 2006/42/EC

Complete biomass and firewood burning system with:

- Auto exchange from firewood to biomass
- Auto ignition with burning regulation via water and fumes temperature
- Room thermostat connection
- Overheating safety kit
- Biomass hearth made of cast iron
- Dual fire safety system
- Easy cleaning and maintenance
- + Optional: Lambda sensor
- + Optional: Ash extraction



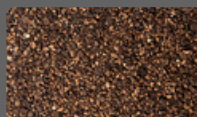
FUEL



PELLET



OLIVE CORE



OLIVE HUSK



NUT SHELLS



CORN



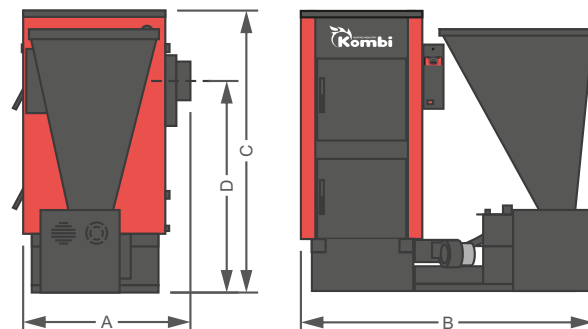
FIREWOOD



COAL



BRIQUETTE



TECHNICAL FEATURES

TYPE	kn-at 18	kn-at 30	kn-at 50	kn-at 70	kn-at 80
Output in Firewood (kW)	18	30	50	70	80
Output in Pellets (kW)	30	45	62	82	98
Water Capacity (l)	66	110	125	210	202
Boiler Connections (in)	1	1 ¼	1 ¼	2	2
Safety Valve Connections (in)	2 x ¾	2 x ¾	2 x ¾	2 x ¾	2 x ¾
System Length (mm) / A	820	820	910	1.080	1.080
System Width (mm) / B	1.430	1.440	1.510	1.580	1.580
System Height (mm) / C	1.450	1.570	1.590	1.705	1.705
Chimney Center Height (mm) / D	1.090	1.100	1.190	1.305	1.305
Silo Capacity (m³)	0,41	0,41	0,41	0,41	0,41
Feeder motor Output (kW)	0,5	0,5	0,75	1	1
Fan Output (W)	90	90	90	100	100
Chimney Ø (mm)	180	200	200	200	200
Max Operating Temperature (°C)	90	90	90	90	90
Max Operating Pressure (bar)	2,5	2,5	2,5	2,5	2,5
Operating voltage (V)	220	220	220	220	220
Weight (kg)	372	414	478	608	618

ACCESSORIES

	AUTO 40 ELECTRONIC CONTROL PANEL	Auto ignition Auto exchange from Firewood to pellets Room thermostat connection Fan rpm regulation pump control Auto burning regulation via water and fumes temperature Weekly programming
	AUTO 60 ELECTRONIC CONTROL PANEL	With extra operations from AUTO 40 LCD ui Auger and fan regulation via the menu Options for: Lambda sensor, Ash extraction, External feeding (secondary auger control)
	LAMBDA	Lambda sensor (connects with AUTO 60)
AUTO ASH EXTRACTION		Auto ash extraction with one auger (connects with AUTO 60)
	EU 37 DIGITAL CONTROL PANEL	Burning control Feeding control DHW and charging pump control Room thermostat connection Optional connection with GSM or ETHERNET LCD screen Overheating feeder sensor Thermal safety Does not have auto ignition and automatic burning control
SAFETY VALVES 18 TO 50		2 x T&P + TFIRE
SAFETY VALVES 70 TO 80		2 x T&P + TMIX + TFIRE

kn-at industrial

Biomass & firewood boiler

Output

148-508kW



FEATURES:

Manufactured according to the European directive EN 303-5:2012
CE marked according to the directive 97/23/EC, B1 and 2006/42/EC

Complete biomass and firewood burning system with:

- Auto exchange from firewood to biomass
- Auto ignition with burning regulation via water and fumes temperature
- Secondary air fan
- Room thermostat connection
- Overheating safety kit
- Biomass hearth made of cast iron
- Dual fire safety system
- Easy cleaning and maintenance
- + Optional: Lambda sensor
- + Optional: Ash extraction



FUEL



PELLET



OLIVE CORE



OLIVE HUSK



NUT SHELLS



CORN



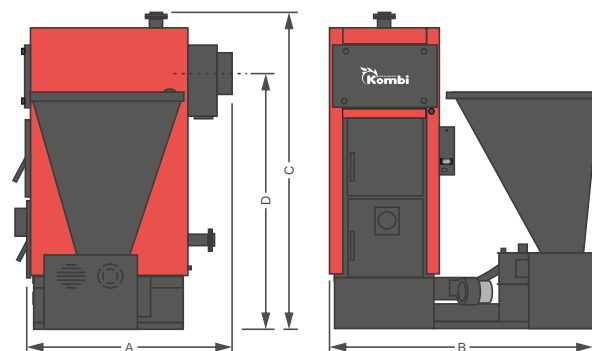
FIREWOOD



COAL



BRIQUETTE



TECHNICAL FEATURES

TYPE	kn-at 110	kn-at 160	kn-at 200	kn-at 250	kn-at 350	kn-at 450
Output in Firewood (kW)	110	160	200	250	350	450
Output in Pellets (kW)	148	187	230	288	390	508
Water Capacity (l)	250	292	324	525	423	540
Boiler Connections (in)	2 ½	3	3	3	4	4
Safety Valve Connections (in)	4 x ¾	4 x ¾	4 x ¾	4 x ¾	4 x ¾	4 x ¾
	1 x 1 ¼	1 x 1 ¼	1 x 1 ¼	1 x 1 ¼	1 x 1 ¼	1 x 1 ¼
	1 x ½	1 x ½	1 x ½	1 x ½	1 x ½	1 x ½
System Length (mm) / A	1.300	1.510	1.510	1.510	1.780	3.000
System Width (mm) / B	1.980	1.990	2.030	2.030	2.580	1.300
System Height (mm) / C	2.145	2.300	2.630	2.630	2.720	2.950
Chimney Center Height (mm) / D	1.825	1.885	2.155	2.155	2.270	2.490
Silo Capacity (m³)	0,66	0,66	0,66	0,66	0,8	0,8
Feeder Motor Output (kW)	0,75	1,1	1,1	1,1	1 1/2	1 1/2
Fan Output (W)	100	260	260	260	260	2x260
Secondary Air Fan Output (W)	100	100	100	100	100	100
Chimney Ø (mm)	250	250	300	300	300	350
Max Operating Temperature (°C)	90	90	90	90	90	90
Max Operating Pressure (bar)	2,5	2,5	2,5	2,5	2,5	2,5
Operating voltage (V)	220/380	220/380	220/380	220/380	220/380	220/380
Weight (kg)	920	1.198	1.353	1.585	2.229	2.475

ACCESSORIES

	AUTO 60 ELECTRONIC CONTROL PANEL	LCD screen Auto ignition Auto exchange from Firewood to biomass Room Thermostat connection Fan rpm regulation pump control Auto burning regulation via water and fumes temperature Weekly programmer Auger and fan regulation via the menu Options for: Lambda sensor, Ash extraction, External feeding (secondary auger control)
	LAMBDA	Lambda sensor (connects with AUTO 60)
AUTO ASH EXTRACTION (connects with AUTO 60)		Auto ash extraction 2 augers 110 to 250 Auto ash extraction 2 augers 350 to 450
	EU 37 DIGITAL CONTROL PANEL	Burning control Feeding control DHW and charging pump control Room thermostat connection Optional connection with GSM or ETHERNET LCD screen Overheating feeder sensor Thermal safety Does not have auto ignition and automatic burning control
SAFETY VALVES 110		2 x T&P + TMIX + TFIRE
SAFETY VALVES 160 TO 450		2 x T&P + TMIX + TFIRE + VTFN

kn-sf

Woodchip & biomass boiler

Output

30-80kW



FEATURES:

Manufactured according to the European directive EN 303-5:2012

CE marked according to the directive 97/23/EC, B1 and 2006/42/EC

Complete wood chip, biomass and firewood burning system with:

- Auto exchange from firewood to biomass
- Auto ignition with burning regulation via water and fumes temperature
- Room thermostat connection
- Overheating safety kit
- Biomass hearth made of cast iron
- Dual fire safety system
- Cylindrical silo with mixing system
- Easy cleaning and maintenance
- + Optional: Lambda sensor
- + Optional: remote control via GSM
- + Optional: Ash extraction



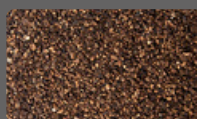
FUEL



PELLET



OLIVE CORE



OLIVE HUSK



NUT SHELLS



CORN



FIREWOOD



COAL



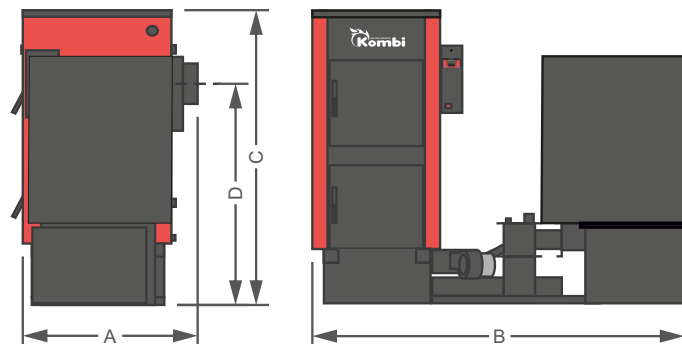
BRIQUETTE



SAWDUST



WOOD CHIPS



TECHNICAL FEATURES

TYPE	kn-sf 30	kn-sf 50	kn-sf 70	kn-sf 80
Output in Firewood (kW)	30	50	70	80
Output in Pellets (kW)	45	62	82	98
Water Capacity (l)	110	125	210	202
Boiler Connections (in)	1 ¼	1 ½	2	2
Safety Valve Connections (in)	2 x ¾	2 x ¾	2 x ¾	2 x ¾
System Length (mm) / A	820	910	1.080	1.080
System Width (mm) / B	1.860	1.930	2.000	2.000
System Height (mm) / C	1.570	1.590	1.705	1.705
Chimney Center Height (mm) / D	1.100	1.190	1.305	1.305
Silo Capacity (m³)	0,49	0,49	0,778	0,778
Feeder Motor Output (kW)	0,09	0,09	0,75	0,75
Silo Motor Output (kW)	0,75	0,75	0,75	0,75
Fan Output (W)	90	90	100	100
Chimney Ø (mm)	200	200	200	200
Max Operating Temperature (°C)	90	90	90	90
Max Operating Pressure (bar)	2,5	2,5	2,5	2,5
Operating voltage (V)	220/380	220/380	220/380	220/380
Weight (kg)	546	606	734	746

ACCESSORIES

	AUTO 40 ELECTRONIC CONTROL PANEL	Auto ignition Auto exchange from Firewood to pellets Room thermostat connection Fan rpm regulation pump control Auto burning regulation via water and fumes temperature Weekly programming
	AUTO 60 ELECTRONIC CONTROL PANEL	With extra operations from AUTO 40 LCD Screen Auger and fan regulation via the menu Options for: Lambda sensor, Ash extraction, External feeding (secondary auger control)
	LAMBDA	Lambda sensor (connects with AUTO 60)
AUTO ASH EXTRACTION		Auto ash extraction with one auger (connects with AUTO 60)
	EU 37 DIGITAL CONTROL PANEL	Burning control Feeding control DHW and charging pump control Room thermostat connection Optional connection with GSM or ETHERNET LCD screen Overheating feeder sensor Thermal safety Does not have auto ignition and automatic burning control
SAFETY VALVES 30 TO 50		2 x T&P + TFIRE
SAFETY VALVES 70 TO 80		2 x T&P + TMIX + TFIRE

kn-sf industrial

Wood chips & biomass boiler

Output

148-508kW



FEATURES:

Manufactured according to the European directive EN 303-5:2012

CE marked according to the directive 97/23/EC, B1 and 2006/42/EC

Complete wood chip, biomass and firewood burning system with:

- Auto exchange from firewood to biomass
- Auto ignition with burning regulation via water and fumes temperature
- Room thermostat connection

- Large kW temperature safety valve
- Overheating safety kit
- Biomass hearth made of cast iron
- Dual fire safety system
- Cylindrical silo with mixing system
- Easy cleaning and maintenance
- + Optional: Lambda sensor
- + Optional: remote control via GSM
- + Optional: Ash extraction



FUEL



PELLET



OLIVE CORE



OLIVE HUSK



NUT SHELLS



CORN



FIREWOOD



COAL



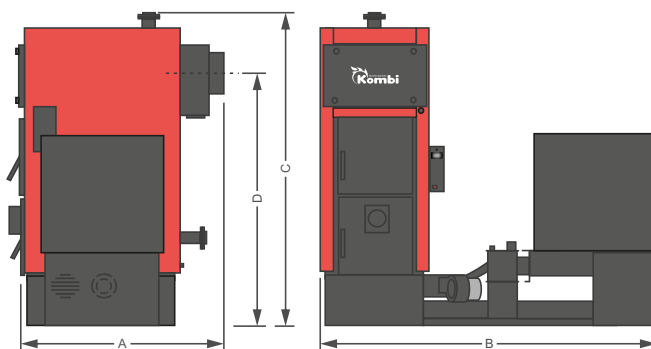
BRIQUETTE



SAWDUST



WOOD CHIPS



TECHNICAL FEATURES

TYPE	kn-sf 110	kn-sf 160	kn-sf 200	kn-sf 250	kn-sf 350	kn-sf 450
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Water Capacity (l)	250	292	324	525	423	540
Boiler Connections (in)	2 ½	3	3	3	4	4
Safety Valve Connections (in)	4 x ¾	4 x ¾	4 x ¾	4 x ¾	4 x ¾	4 x ¾
	1 x 1 ¼	1 x 1 ¼	1 x 1 ¼	1 x 1 ¼	1 x 1 ¼	1 x 1 ¼
	1 x ½	1 x ½	1 x ½	1 x ½	1 x ½	1 x ½
System Length (mm) / A	1.300	1.510	1.510	1.510	1.780	3.000
System Width (mm) / B	2.050	2.220	2.220	2.220	2.680	1.400
System Height (mm) / C	2.145	2.300	2.630	2.630	2.720	2.950
Chimney Center Height (mm) / D	1.825	1.885	2.155	2.155	2.270	2.490
Silo Capacity (m³)	0,54	0,54	0,54	0,54	0,54	0,54
Feeder Motor Output (kW)	0,75	1,1	1,1	1,1	1 1/2	1 1/2
Silo Motor Output (kW)	1,1	1,1	1,1	1,1	1,1	1,1
Fan Output (W)	100	260	260	260	260	150
Secondary Air Fan Output (W)	100	100	100	100	100	100
Chimney Ø (mm)	250	250	300	300	300	300
Max Operating Temperature (°C)	90	90	90	90	90	90
Max Operating Pressure (bar)	2,5	2,5	2,5	2,5	2,5	2,5
Operating voltage (V)	220/380	220/380	220/380	220/380	220/380	220/380
Weight (kg)	1.080	1.358	1.513	1.745	2.389	2.635

ACCESSORIES

	AUTO 60 ELECTRONIC CONTROL PANEL	LCD Screen Auto ignition Auto exchange from Firewood to biomass Room thermostat connection Fan rpm regulation pump control Auto burning regulation via water and fumes temperature Weekly programming Auger and fan regulation via the menu Options for: Lambda sensor, Ash extraction, External feeding (secondary auger control)
	LAMBDA	Lambda sensor (connects with AUTO 60)
AUTO ASH EXTRACTION (connects with AUTO 60)		Ash extraction with 2 augers 110 up to 250 Ash extraction with 2 augers 350 up to 450
	EU 37 DIGITAL CONTROL PANEL	Burning control Feeding control DHW and charging pump control Room thermostat connection Optional connection with GSM or ETHERNET LCD screen Overheating feeder sensor Thermal safety Does not have auto ignition and automatic burning control
SAFETY VALVES 30 TO 50		2 x T&P + TMIX + TFIRE
SAFETY VALVES 70 TO 80		2 x T&P + TMIX + TFIRE + VTFN

swm

Firewood warm air generator

Output

30-250kW



FEATURES:

- Warm air heating for offices & exhibitions, shops, factories, garages, greenhouses, tennis courts etc.
- Specially designed combustion chamber, for great autonomy.
- Burning grid made of seamless stainless steel pipe
- Combustion chamber made of stainless steel, air tubes and ash collector made of steel
- Vertical air tubes
- Easy cleaning and maintenance
- Option of different air exits, air tubes or grilles (Front, side, top)
- + Optional: Retrofit of an automation to burn also bio-mass (pellet, olive husk etc) (pa/at/sf models)
- + Optional: Air tubes made of stainless steel

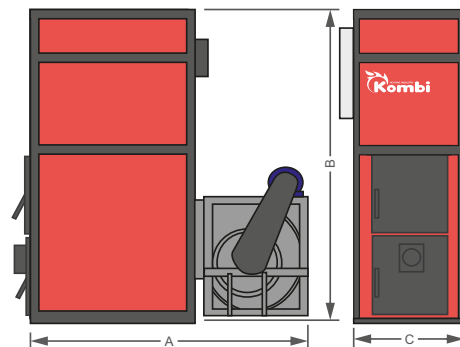
FUEL



FIREWOOD



BRIQUETTE



TECHNICAL FEATURES

TYPE	swm 30	swm 50	swm 80	swm 110	swm 160	swm 200	swm 250
Output (kW)	30	50	80	110	160	200	250
Length (mm) / A	1.350	1.540	1.700	2.100	2.200	2.300	2.400
Width (mm) / B	630	700	750	800	920	940	960
Height (mm) / C	1.850	1.950	1.950	2.250	2.350	2.370	2.370
Chimney Ø (mm)	200	200	200	250	250	300	300
Fan Output (kW)	0,37	0,55	1,1	3	4	5,5	7,5
Air supply (m³/h)	3.400	5.200	8.000	13.000	17.000	19.000	22.000
Operating voltage (V)	220	220	220	220	380	380	380
Weight (kg)	350	410	560	820	950	1.085	1.120

ACCESSORIES



ST 21
DIGITAL CONTROL
PANEL

Digital control panel for fan control | includes fan

swm-at

Biomass & firewood warm air generator

Output

42-296kW



FEATURES:

CE certified according to directive 2006/42/EC

- Warm air heating for offices & exhibitions, shops, factories, garages, greenhouses, tennis courts etc.
- Burns firewood and briquette from the top door and biomass from the silo.
- Auto exchange from firewood to biomass
- Specially designed combustion chamber, for great autonomy.
- Burning grid made of seamless stainless steel pipe
- Combustion chamber made of stainless steel, air

tubes and ash collector made of steel

- Vertical air tubes
- Easy cleaning and maintenance
- Option of different air exits, air tubes or grilles (Front, side, top)
- Double fire safety system
- + Optional: Air tubes made of stainless steel
- + Optional: Lambda sensor
- + Optional: Auto ash extraction



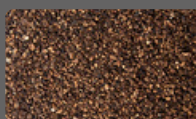
FUEL



PELLET



OLIVE CORE



OLIVE HUSK



NUT SHELLS



CORN



FIREWOOD



COAL



BRIQUETTE



TECHNICAL FEATURES

TYPE	swm-at 30	swm-at 50	swm-at 80	swm-at 110	swm-at 160	swm-at 200	swm-at 250
Output in firewood (kW)	30	50	80	110	160	200	250
Output in Pellets (kW)	42	64	106	158	192	234	296
Length (mm) / A	1.350	1.500	1.700	2.100	2.200	2.300	2.400
Width (mm) / B	1.600	1.700	1.800	2.200	2.300	2.400	2.500
Height (mm) / C	2.150	2.250	2.350	2.600	2.700	2.700	2.700
Fan Output (kW)	0,37	0,55	1,1	3	4	5,5	7,5
Air supply (m³/h)	3.400	5.200	8.000	13.000	17.000	19.000	22.000
Motor Output (kW)	0,09	0,09	0,75	1,1	1,1	1,1	1,1
Feeder Fan Output (W)	90	90	100	100	260	260	260
Chimney Ø (mm)	200	200	200	250	250	300	300
Operating voltage (V)	220	220	220	220	380	380	380
Weight (kg)	520	588	754	1.104	1.278	1.413	1.448

ACCESSORIES

	AERO ELECTRONIC CONTROL PANEL	Warm air generator control panel for 30 up to 110 Auto ignition Auto exchange from wood to pellets Room thermostat connection Fan rpm regulation Automatic burning regulation Weekly programming
	AERO PLUS ELECTRONIC CONTROL PANEL	Warm air generator control panel for 160 up to 250 Auto ignition Auto exchange from wood to pellets Room thermostat connection Fan rpm regulation Automatic burning regulation Weekly programming
	LAMBDA	Lambda Sensor
AUTO ASH EXTRACTION		Ash extraction with 2 augers 30 up to 80
		Ash extraction with 2 augers 110 up to 250
SAFETY VALVES		TFIRE

swm-sf

Wood chip & firewood warm air generator

Output

42-296kW



FEATURES:

CE certified according to directive 2006/42/EC

- Warm air heating for offices & exhibitions, shops, factories, garages, greenhouses, tennis courts etc.
- Burns firewood and briquette from the top door and biomass, wood chips, sawdust, wood shavings from the silo.
- Auto exchange from firewood to biomass
- Specially designed combustion chamber, for great autonomy.
- Burning grid made of seamless stainless steel pipe
- Combustion chamber made of stainless steel, air

tubes and ash collector made of steel

- Vertical air tubes
- Easy cleaning and maintenance
- Option of different air exits, air tubes or grilles (Front, side, top)
- Cylindrical silo with feeding system
- Double fire safety system
- + Optional: Air tubes made of stainless steel
- + Optional: Lambda sensor
- + Optional: Auto ash extraction



FUEL



PELLET



OLIVE CORE



OLIVE HUSK



NUT SHELLS



CORN



FIREWOOD



COAL



BRIQUETTE



SAWDUST



WOOD CHIPS



TECHNICAL FEATURES

TYPE	swm-sf 30	swm-sf 50	swm-sf 80	swm-sf 110	swm-sf 160	swm-sf 200	swm-sf 250
Output in firewood (kW)	30	50	80	110	160	200	250
Output in Pellets (kW)	42	64	106	158	192	234	296
Length (mm) / A	1.350	1.500	1.700	2.100	2.200	2.300	2.400
Width (mm) / B	1.890	2.050	2.200	2.320	2.460	2.530	2.600
Height (mm) / C	2.150	2.250	2.350	2.600	2.700	2.700	2.700
Fan Output (kW)	0,37	0,55	1,1	3	4	5,5	7,5
Air supply (m³/h)	3.400	5.200	8.000	13.000	17.000	19.000	22.000
Feeder Motor Output (kW)	0,09	0,09	0,75	1,1	1,1	1,1	1,1
Silo motor Output (kW)	0,55	0,55	0,74	0,74	0,74	0,74	1,1
Feeder Fan Output (W)	90	90	100	100	260	260	260
Chimney Ø (mm)	200	200	200	250	250	300	300
Operating voltage (V)	220	220	220	380	380	380	380
Weight (kg)	740	778	874	1.264	1.438	1.573	1.608

ACCESSORIES

	AERO ELECTRONIC CONTROL PANEL	Warm air generator control panel for 30 up to 110 Auto ignition Auto exchange from wood to pellets Room thermostat connection Fan rpm regulation Automatic burning regulation Weekly programming
	AERO PLUS ELECTRONIC CONTROL PANEL	Warm air generator control panel for 160 up to 250 Auto ignition Auto exchange from wood to pellets Room thermostat connection Fan rpm regulation Automatic burning regulation Weekly programming
	LAMBDA	Lambda Sensor
AUTO ASH EXTRACTION		Ash extraction with 2 augers 30 up to 80
		Ash extraction with 2 augers 110 up to 250
SAFETY VALVES		TFIRE

spm-at

Biomass warm air generator

Output

42-296kW



FEATURES:

CE certified according to directive 2006/42/EC

- Warm air heating for offices & exhibitions, shops, factories, garages, greenhouses, tennis courts etc.
- Specially designed combustion chamber, for great autonomy.
- Combustion chamber made of stainless steel, air tubes and ash collector made of steel
- Vertical air tubes
- Easy cleaning and maintenance
- Option of different air exits, air tubes or grilles (Front, side, top)
- Double fire safety system
- + Optional: Air tubes made of stainless steel
- + Optional: Lambda sensor
- + Optional: Auto ash extraction



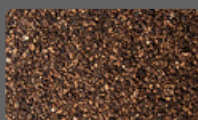
FUEL



PELLET



OLIVE CORE



OLIVE HUSK



NUT SHELLS



CORN



TECHNICAL FEATURES

TYPE	spm-at 30	spm-at 50	spm-at 80	spm-at 110	spm-at 160	spm-at 200	spm-at 250
Output in Firewood (kW)	30	50	80	110	160	200	250
Output in Pellets (kW)	42	64	106	158	192	234	296
Length (mm) / A	1.350	1.500	1.700	2.100	2.200	2.300	2.400
Width (mm) / B	1.600	1.700	1.800	2.200	2.300	2.400	2.500
Height (mm) / C	2.150	2.250	2.350	2.600	2.700	2.700	2.700
Fan Output (kW)	0,37	0,55	1,1	3	4	5,5	7,5
Air supply (m³/h)	3.400	5.200	8.000	13.000	17.000	19.000	22.000
Feeder Motor Output (kW)	0,09	0,09	0,74	0,74	0,74	0,74	0,74
Feeder Fan Output (W)	90	90	100	100	260	260	260
Chimney Ø (mm)	200	200	200	250	250	300	300
Operating voltage (V)	220	220	220	220	380	380	380
Weight (kg)	440	508	674	1.024	1.198	1.333	1.368

ACCESSORIES

	AERO ELECTRONIC CONTROL PANEL	Warm air generator control panel for 30 up to 110 Auto ignition Room thermostat connection Fan rpm regulation Automatic burning regulation Weekly programming
	AERO PLUS ELECTRONIC CONTROL PANEL	Warm air generator control panel for 160 up to 250 Auto ignition Room thermostat connection Fan rpm regulation Automatic burning regulation Weekly programming
	LAMBDA	Lambda Sensor
AUTO ASH EXTRACTION		Ash extraction with 2 augers 30 up to 80
		Ash extraction with 2 augers 110 up to 250
SAFETY VALVES		TFIRE

spm-sf

Wood chip warm air generator

Output

42-296kW



FEATURES:

CE certified according to directive 2006/42/EC

- Warm air heating for offices & exhibitions, shops, factories, garages, greenhouses, tennis courts etc.
- It can burn biomass, sawdust, wood shavings and woodchips.
- Specially designed combustion chamber, for great autonomy.
- Combustion chamber made of stainless steel, air tubes and ash collector made of steel
- Vertical air tubes

- Easy cleaning and maintenance
- Option of different air exits, air tubes or grilles (Front, side, top)
- Double fire safety system
- + Optional: Air tubes made of stainless steel
- + Optional: Lambda sensor
- + Optional: Auto ash extraction



FUEL



PELLET



OLIVE CORE



OLIVE HUSK



NUT SHELLS



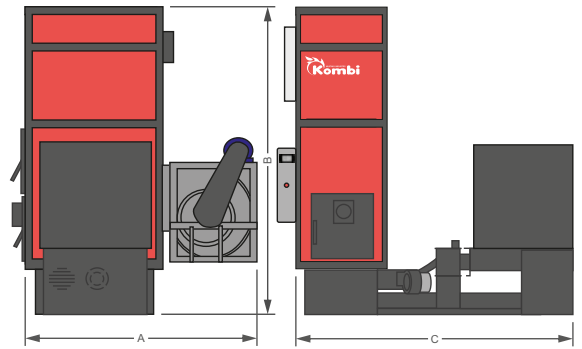
CORN



SAWDUST



WOOD CHIPS



TECHNICAL FEATURES

TYPE	spm-sf 30	spm-sf 50	spm-sf 80	spm-sf 110	spm-sf 160	spm-sf 200	spm-sf 250
Output in Firewood (kW)	30	50	80	110	160	200	250
Output in Pellets (kW)	42	64	106	158	192	234	296
Length (mm) / A	1.350	1.500	1.700	2.100	2.200	2.300	2.400
Width (mm) / B	1.600	1.700	1.800	2.200	2.300	2.400	2.500
Height (mm) / C	2.150	2.250	2.350	2.600	2.700	2.700	2.700
Fan Output (kW)	0,37	0,55	1,1	3	4	5,5	7,5
Air supply (m³/h)	3.400	5.200	8.000	13.000	17.000	19.000	22.000
Feeder Motor Output (kW)	0,09	0,09	0,75	1,1	1,1	1,1	1,1
Silo motor Output (kW)	0,55	0,55	0,74	0,74	0,74	0,74	1,1
Feeder Fan Output (W)	90	90	100	100	260	260	260
Chimney Ø (mm)	200	200	200	250	250	300	300
Operating voltage (V)	220	220	220	220	380	380	380
Weight (kg)	660	698	794	1.184	1.438	1.573	1.608

ACCESSORIES

	AERO ELECTRONIC CONTROL PANEL	Warm air generator control panel for 30 up to 110 Auto ignition Room thermostat connection Fan rpm regulation Automatic burning regulation Weekly programming
	AERO PLUS ELECTRONIC CONTROL PANEL	Warm air generator control panel for 160 up to 250 Auto ignition Room thermostat connection Fan rpm regulation Automatic burning regulation Weekly programming
	LAMBDA	Lambda Sensor
AUTO ASH EXTRACTION		Ash extraction with 2 augers 30 up to 80
		Ash extraction with 2 augers 110 up to 250
SAFETY VALVES		TFIRE

ka

Hydro energy efficient fireplace

Output

14-41kW



FEATURES:

Manufacture according to directive EN 13229:2006

- Central heating fireplace, with great efficiency rate
- Connects with radiators and can operate, as an independent heating source, or as a supplementary source alongside a central heating boiler.
- Double hearth and side walls that contain water.
- Schott Robax ceramic glass with high temperature resistance.

- It can be decorated with any material (marble, stone, plasterboard etc)
 - Easy to install by a certified technician, just like a central heating boiler.
- + Option: Simple door or retractable door

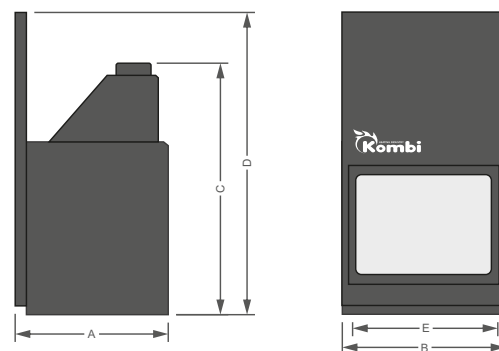
FUEL



FIREWOOD



BRIQUETTE



TECHNICAL FEATURES

TYPE	ka 15	ka 20	ka 25	ka 30	ka 35	ΓΩΝΙΑΚΟ ka-ad 25
Output (kW)	14	23,2	29	34,8	40,6	22
Fireplace connections (in)	1	1	1 ¼	1 ½	1 ½	1 ¼
External Length (mm) / A	550	600	650	700	750	650
Front External Width (mm) / B	700	800	900	1.000	1.100	900
Height (mm) / C	1.100	1.200	1.200	1.400	1.400	1.200
Height with Retractable Door (mm) / D	1.500	1.600	1.600	1.800	1.800	1.600
Back External Width (mm) / E	500	600	700	800	900	900
Hearth Internal Depth (mm)	500	550	600	650	700	600
Chimney Ø (mm)	150	200	250	300	300	250
Max Operating Temperature (°C)	90	90	90	90	90	90
Max Operating Pressure (bar)	2,5	2,5	2,5	2,5	2,5	2,5
Operating voltage (V)	220	220	220	220	220	220
Weight [Fireplace+Retractable Door] (kg)	165+35	192+40	236+44	286+60	318+65	236+33

ACCESSORIES

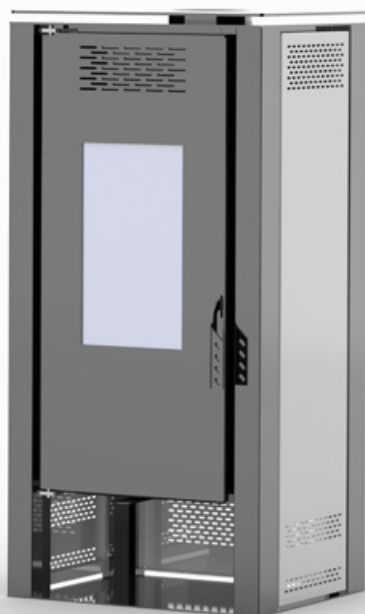
	CAW ANALOGUE CON- TROL PANEL	Analogue control panel thermometer Pump thermostat
	ST 21 DIGITAL CONTROL PANEL	Digital control panel for pump Anti freezing protection Anti stop protection
SAFETY VALVES		1 x T&P + 1 x TMIX + 1 x PV

stw

Firewood stove

Output

11,5kW



FEATURES:

Manufactured according to directive EN 13240:2006

- Elegant design with small dimensions
- Large vertical combustion chamber
- Burning control for low consumption
- Secondary air burning
- Large door opening
- Schott Robax ceramic glass with large surface
- Even firewood burning
- Vermiculite Internal insulation
- Sturdy built

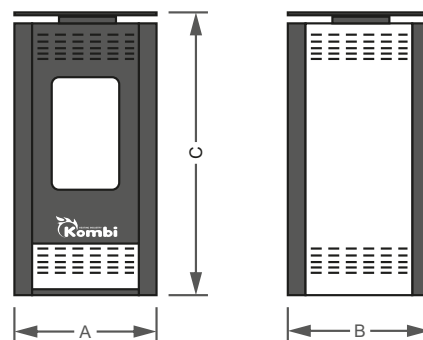
FUEL



FIREWOOD



BRIQUETTE



TECHNICAL FEATURES

TYPE	stw
Length (mm) / A	400
Width (mm) / B	500
Height (mm) / C	1.020
Combustion Chamber dimensions (mm) / LxWxH	420x320x420
Maximum fumes temperature (°C)	160
Efficiency rate (%)	75,1
CO content (%)	0,4311
Chimney Ø (mm)	150
Operating Temperature (°C)	5 - 60
Hourly Firewood Consumption (kg/h)	3,1 - 3,35
Weight (kg)	100

mb

Oil - gas boiler

Output

25-91kW



FEATURES:

CE marked according to European directive 92/42/EEC for hot water boilers.

Manufactured according to the new directives 2010/30/EU for energy efficiency and 2009/125/EC for energy related products.

The mb series boilers are designed:

- With large heat exchange surface, compared to its volume, due to its water circulating façade.
- Three-way fumes route, stainless steel turbulators, for increased thermal exchange.

- Cylindrical combustion chamber with perfect flame adjustment, uniform thermal absorption and silent operation.
- Modern look, with electrostatically painted covers, for damage protection.
- Insulated with high density glasswool.

Strict quality control of welding is performed in all the production stages. Hydraulic pressure testing is performed to assure the quality of the products.

CE

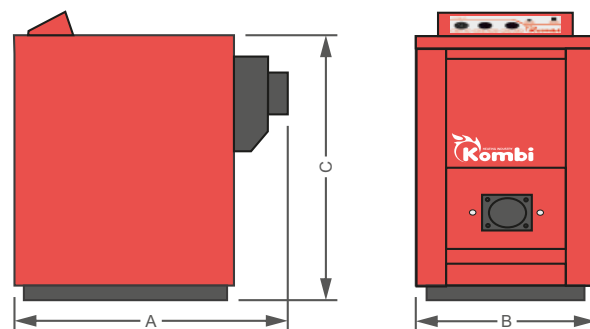
FUEL



OIL



GAS



TECHNICAL FEATURES

TYPE	mb 25	mb 35	mb 45	mb 60	mb 80
Output (kW)	25,4	39	51,3	69,6	90,9
Nominal Output (kW)	23,6	36	46,9	64,5	83,4
Certified efficiency rate CE	92,97 ***	92,40 **	91,56 **	92,42 **	92,71 **
Boiler Connections (in)	1 ¼	1 ¼	1 ¼	1 ½	1 ½
Length (mm) / A	770	820	890	950	1.070
Width (mm) / B	550	550	550	610	610
Height (mm) / C	905	905	905	1.045	1.045
Max Operating Temperature (°C)	95	95	95	95	95
Max Operating Pressure (bar)	4	4	4	4	4
Counter pressure (mbar)	0,29	0,46	0,56	0,74	0,85
Chimney Ø (mm)	120	120	120	145	145
Operating voltage (V)	220	220	220	220	220
Weight (kg)	158	164	180	224	262

ACCESSORIES

	CAO ANALOGUE CONTROL PANEL	Analogue control panel for burner and pump Thermometer 2 Thermostats for pump and burner
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tb

Oil - gas boiler

Output

114-1000kW



FEATURES:

CE marked according to European directive 92/42/EEC for hot water boilers.

Manufactured according to the new directives 2010/30/EU for energy efficiency and 2009/125/EC for energy related products.

The tb series boilers are designed:

- With large heat exchange surface, compared to its volume, due to its water circulating façade.
- Three way fumes route, stainless steel turbulators, with increased thermal exchange.

- Cylindrical combustion chamber with perfect flame adjustment, uniform thermal absorption and silent operation.
- Modern look, with electrostatically painted covers, for damage protection.
- Insulated with high density glasswool.

Strict quality control, of welding is performed in all the production stages. Hydraulic pressure testing is performed to assure the quality of the products.



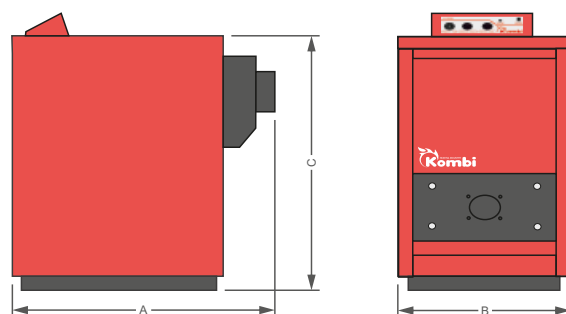
FUEL



OIL



GAS



TECHNICAL FEATURES

TYPE	tb 100	tb 125	tb 150	tb 175	tb 200	ka 250
Output (kW)	113,9	141,9	172	200	229,9	294,3
Nominal Output (kW)	105,3	131,2	159	185	212,7	272,4
Certified efficiency rate CE	92,44**	92,45**	92,42**	92,48**	92,50**	92,55**
Boiler Connections (in)	2	2	2 ½	2 ½	3	3
Length (mm) / A	1.120	1.270	1.370	1.495	1.500	1.650
Width (mm) / B	660	660	720	720	810	810
Height (mm) / C	1.130	1.270	1.210	1.210	1.250	1.250
Max Operating Temperature (°C)	95	95	95	95	95	95
Max Operating Pressure (bar)	4	4	4	4	4	4
Back pressure (mbar)	0,98	1,39	1,85	2,26	2,62	2,83
Chimney Ø (mm)	200	200	200	200	250	250
Operating voltage (V)	220	220	220	220	220	220
Weight (kg)	360	378	444	484	556	600

TYPE	tb 300	tb 350	tb 400	tb 500	tb 600	tb 700
Output (kW)	347,9	407,9	464	580	695,9	812
Nominal Output (kW)	322,1	350	422,3	531,9	635,4	740,6
Certified efficiency rate CE	92,58	92,59	91,5	91,7	91,3	91,2
Boiler Connections (in)	3"	3"	4"	4"	4"	4"
Length (mm) / A	1.720	1.820	1.820	1.880	1.960	2.120
Width (mm) / B	880	880	880	880	880	880
Height (mm) / C	1.390	1.390	1.390	1.390	1.390	1.390
Max Operating Temperature (°C)	95	95	95	95	95	95
Max Operating Pressure (bar)	4	4	4	4	4	4
Back pressure (mbar)	3,61	4	4,52	5,27	5,98	6,55
Chimney Ø (mm)	300	300	300	300	300	300
Operating voltage (V)	220	220	220	220	220	220
Weight (kg)	732	822	875	956	1.038	1.130

ACCESSORIES

	CAO ANALOGUE CONTROL PANEL	Analogue control panel for burner and pump Thermometer 2 Thermostats for pump and burner
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sb

Compact oil - gas boiler

Output

25-48kW



FEATURES:

Manufactured according to the European standards EN 303-2 & EN 304 and certified according to the European directive 94/42/EEC.

It is a complete boiler room in small dimensions.

It is consisted of:

- Steel boiler, specially designed for quiet, safe and efficient operation. Easy maintenance.
- Silent ERP pump
- Steel tubes and stainless steel turbulators
- Expansion vessel
- Safety valve
- Automatic venting valve
- Complete control panel for efficient and safe operation

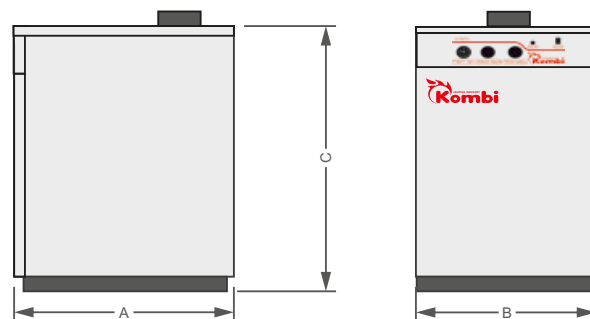
FUEL



OIL



GAS



TECHNICAL FEATURES

TYPE	sb 20	sb 30	sb 40
Output (kW)	24,61	36,35	47,76
Nominal Output (kW)	22,22	33,12	43,9
Certified efficiency rate CE	90,29 **	91,11 **	91,92 **
Water capacity (l)	31	39	48
Boiler Connections (in)	1	1	1 ¼
Length (mm) / A	735	815	855
Width (mm) / B	500	570	590
Height (mm) / C	895	960	995
Max Operating Temperature (°C)	90	90	90
Max Operating Pressure (bar)	2,5	2,5	2,5
Expansion vessel (l)	12	12	12
Back pressure (mbar)	0,29	0,46	0,85
Chimney Ø (mm)	120	120	120
Operating voltage (V)	220	220	220
Weight (kg)	101	119	132

ACCESSORIES

	CA0 ANALOGUE CONTROL PANEL	Analogue control panel for burner and pump Thermometer 2 Thermostats for pump and burner
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prb

Oil boiler

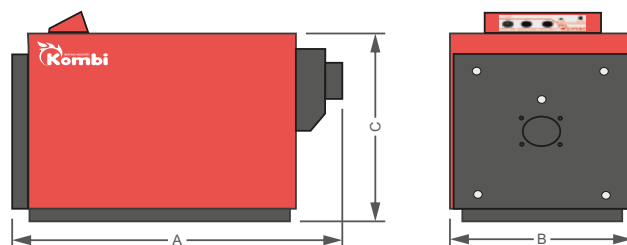
Output

25-832kW



TECHNICAL FEATURES

TYPE	prb 20 *	prb 30 *	prb 40 *	prb 50 *	prb 65 *	prb 75 *	prb 90 *	prb 110 *
Output (kW)	25,3	38,3	46,9	62,8	82,9	91,3	114,4	138,6
Nominal Output (kW)	22,4	34,4	42,1	56,5	74,6	82,3	102,9	124,7
Boiler Connections (in)	1 ¼	1 ¼	1 ¼	1 ½	1 ½	1 ½	1 ½	2
Length (mm) / A	730	770	885	905	990	1.090	1.100	1.260
Width (mm) / B	560	560	560	660	660	660	770	770
Height (mm) / C	610	610	610	710	710	710	810	810
Chimney Ø (mm)	120	120	120	145	145	145	145	175
Back pressure (mbar)	0,25	0,42	0,52	0,65	0,78	0,84	0,97	1,35
Max Operating Temperature (°C)	95	95	95	95	95	95	95	95
Max Operating Pressure (bar)	4	4	4	4	4	4	4	4
Operating voltage (V)	220	220	220	220	220	220	220	220
Weight (kg)	118	120	140	182	202	212	302	342



FEATURES:

Manufactured according to the European standards EN 303-2 & EN 304 and CE certified according to the European directive 92/42/EEC

The prb boilers have a significant advantage because of:

- The large heat exchange surface in comparison with their volume
- Three pass seamless tubes, with stainless steel turbulators for optimum heat exchange
- Cylindrical combustion chamber for even flame spread, heat distribution and noiseless operation.
- High density glass wool covers
- Electrostatically painted covers
- Control panel sockets
- Easy installation, maintenance and service
- Strict quality control in all the production stages
- Welding and hydraulic testing at 6 bar pressure.

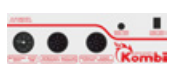
FUEL



OIL

prb 130 *	prb 145 *	prb 165	prb 185	prb 210	prb 260	prb 300	prb 350	prb 400	prb 500	prb 650
165,2	184,8	211,2	236,5	269,5	332,2	383,9	447,7	511,5	639,1	831,6
148,7	166,3	190,1	212,9	242,6	298,9	345,5	402,9	460,4	575,2	748,5
2	2	2 ½	2 ½	2 ½	3	3	3	4	4	4
1.410	1.510	1.465	1.545	1.590	1.610	1.725	1.860	1.830	1.980	2.190
770	770	840	840	840	940	940	940	1.040	1.040	1.040
810	810	890	890	890	990	990	990	1.080	1.080	1.080
175	175	200	200	200	250	250	250	300	300	300
1,72	2	2,37	2,64	2,93	3,46	3,82	4,25	4,67	5,4	6,25
95	95	95	95	95	95	95	95	95	95	95
4	4	4	4	4	4	4	4	4	4	4
220	220	220	220	220	220	220	220	220	220	220
365	388	420	452	492	596	674	767	843	924	1028

ACCESSORIES



CAO
ANALOGUE
CONTROL PANEL

Analogue control panel for burner and pump | Thermometer | 2 Thermostats for pump and burner

lum / mtm

Oil - gas warm air generator

Output

63-319kW

lum



mtm (compact)



FEATURES:

CE certified according to the European 2006/42/EC, warm air heating in offices, exhibition areas, shops, factories, green houses etc

The warm air generators are consisted of:

- Combustion chamber specially designed, for optimum operation and minimum consumption.
- Integrated control panel, with air thermostat for regulating the air exit temperature, for efficient and optimized operation
- High efficiency fan for operation with or without air ducts.

- Combustion chamber made of stainless steel and tubes with ash collector made of steel.
- Vertical ash collector air tubes.
- Easy cleaning and maintenance
- + Option of different air exits, air tubes or grilles (Front, side, top)
- + Option of air tubes made of stainless steel



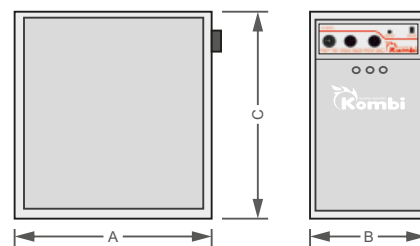
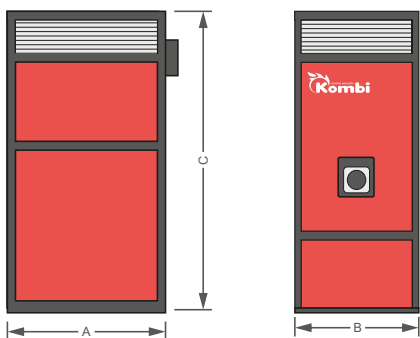
FUEL



OIL



GAS



TECHNICAL FEATURES

TYPE	lum 50	lum 75	lum 100	lum 150	lum 200	lum 250
Output (kW)	63	95,7	127,6	191,4	255,2	319
Nominal Output (kW)	56,7	86,1	114,8	172,3	229,7	287,1
Length (mm) / A	925	1.040	1.225	1.375	1.540	1.640
Width (mm) / B	680	750	820	1.020	1.080	1.080
Height (mm) / C	1.830	1.920	2.015	2.270	2.470	2.470
Back pressure (mbar)	0,65	0,84	1,16	2,08	2,8	3,48
Fan Air supply (m³/h)	4.500	5.200	8.000	13.000	17.000	19.000
Fan Output (kW)	0,37	0,55	1,1	3	4	5
Chimney Ø (mm)	150	150	200	200	250	250
Operating voltage (V)	240	240	380	380	380	380
Weight (kg)	240	260	530	624	785	843

TECHNICAL FEATURES

TYPE	mtm 25	mtm 35
Output (kW)	31,9	44,7
Nominal Output (kW)	28,7	40,2
Length (mm) / A	1.050	1.220
Width (mm) / B	490	490
Height (mm) / C	1.070	1.070
Back pressure (mbar)	0,35	0,48
Fan Air supply (m³/h)	1.550	2.400
Fan Output (kW)	0,074	0,12
Chimney Ø (mm)	120	120
Operating voltage (V)	240	240
Weight (kg)	120	134

Accessories - Safety valves

BOILER & FIREPLACE CONTROL PANELS

	CAW	Boiler kn & Fireplace ka analogue control panel thermometer and pump thermostat
	ST 21	Boiler kn & Fireplace ka digital control panel anti-freeze and anti-stop function
	ST 28	Boiler kn fan control panel Room thermostat connection, fan rpm regulation and pump for heating and DHW control
	KM 133	Fan for kn boilers with metal air shutter for st28 control panel kn 18 up to 110
	CBM-2 260	Fan for kn boilers with metal air shutter for st28 control panel kn 160 up to 350
	CBM-4 150	Fan for kn boiler for st 28 control panel kn 450

WOOD & BIOMASS CONTROL PANELS

	AUTO 40	Biomass Electronic control panel Auto ignition Auto exchange from Firewood to pellets Room thermostat connection Fan rpm regulation Pump control Auto burning regulation via water and fumes temperature Weekly programming Boiler systems: kn-pa, kn-at & kn-sf
	AUTO 60	Biomass Electronic control panel LCD Screen Auto ignition Auto exchange from Firewood to biomass Room thermostat connection Fan rpm regulation pump control Auto burning regulation via water and fumes temperature Weekly programming Auger and fan regulation via the menu Options for: Lambda sensor, Ash extraction, External feeding (secondary auger control) Boilers: kn-at & kn-sf - for boilers from 110 kW and larger.
	EU 37	Biomass Digital control panel Burning control Feeding control DHW and charging pump control Room thermostat connection Optional connection with GSM or ETHERNET LCD screen Overheating feeder sensor Thermal safety Does not have auto ignition and automatic burning control

WARM AIR GENERATOR CONTROL PANEL

	AERO ELECTRONIC CONTROL PANEL	Warm air generator control panel for 30 up to 110 Auto ignition Room thermostat connection Fan rpm regulation Automatic burning regulation Weekly programming
	AERO PLUS ELECTRONIC CONTROL PANEL	Warm air generator control panel for 160 up to 250 Auto ignition Room thermostat connection Fan rpm regulation Automatic burning regulation Weekly programming

AUTO & AERO ACCESSORIES

	WiFi	Wifi addon
	LAMDA	Lambad sensor addon
Auto ash extraction (works with auto 60)	Ash ex- traction with 1 auger	For pa automation
	Ash extraction with 2 augers	at sf 30-80
		at sf 110 - 250
		at sf 300 - 450
	CAO ANA- LOGUE CONTROL PANEL	Analogue control panel for burner and pump Thermometer 2 Thermostats for pump and burner For mb, tb, prb, sb

ACCESSORIES

Tubulators	Stainless Steel tubulators for wood boilers	kn 30 set
		kn 50 set
		kn 80 set

SAFETY VALVES

	T&P	Temperature and pressure safety valve 3/4" kn ka
	TMIX	Thermal release valve kn ka
	MOTHER	Draught regulator kn
	VTFN	Temperature valve kn >160 – 1"
	PV	Pressure valve ka – 1/2 "
	TFIRE	Temperature firesafety valve at
	3W25	Temperature three way anti condensation valve for kn 55 °C – 1"
	3W32	Temperature three way anti condensation valve for kn 55 °C – 1"
	3W40	Temperature three way anti condensation valve for kn 55 °C – 1 1/2 "
	3W50	Temperature three way anti condensation valve for kn 55 °C – 2"



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