



PREMIUM QUALITY "MADE IN AUSTRIA"

KWB is the Austrian quality producer of pellet, wood chip and log wood heating systems in the output range from 2.4 to 300 kW. As a pioneer in this sector, we have revolutionized heating with wood. More than 90,000 customers worldwide trust our expertise, including single- and multi-family home owners, agricultural businesses, tour operators, commercial business and utility companies.

KWB is the ideal single-source solution. Our premium products are operationally reliable, and guaranteed Made in Austria. Our assistance commences during your decision-making process and we continue to assist you, together with our trusted partner installation companies, all the way to the installation of your customized comprehensive solution. Our KWB Factory Customer Service and our distribution partners in your vicinity will also be glad to help you at any time!

We provide energy for life!



PREMIUM QUALITY "MADE IN AUSTRIA"



MORE THAN 90.000 SATISFIED CUSTOMERS



NUMEROUS AWARDS FOR THE FACTORY CUSTOMERS SERVICE



world.

and all the way to Japan, we rely on our strong distribution partners. Together we spread KWB's philosophy all over the



KWB PELLETFIREPLUS

ROBUST AND ECONOMICAL HEATING

- ✓ Safe and economic thanks to the unique crawler burner
- ✓ Maintenance-free between service intervals
- ✓ Easy operation

The KWB Pelletfire Plus pellet boiler is the ideal central heating for commercial buildings, housing developers and heating service providers. It is also optimized for installation in a multi-boiler system (cascade) and can be placed back to back to save space. It is also used in multi-family homes and hotel businesses in the output range of 45 – 135 kW. It cleans itself in ongoing operations and can be intuitively controlled.





ROBUST CRAWLER BURNER

with high-alloy and self-cleaning cast grate components it enables the use of varying fuel qualities. This makes you even more flexible when heating with wood chips or pellets.

No cleaning expenditures

thanks to a fully self-cleaning system during ongoing operation between service intervals.

Low emissions

thanks to optimal exhaust gas routing and high combustion temperatures in a flow-optimized silicon carbide* combustion chamber.



Secure operation

due to the 7-chamber cellular wheel sluice with fill level monitoring.

* material similar to ceramics, suitable for high temperatures.

Easy installation

thanks to the integrated return flow temperature boost – optimized hydraulics fully adjusted to the system.

Flexible and easy installation

with the KWB Comfort 4 Control with proven control dial and touchscreen display – can also be controlled remotely.



system

Crawler burner with high-alloy cast and self-cleaning revolving grate components.

Convenient emptying of ash

into an ash container with integrated fill level monitoring – in a convenient 2-part design.



EXHAUST GAS CIRCULATION

optionally for an optimal degree of efficiency, low emissions, guaranteed durable system protection with dry fuels (comes standard with 95 – 135 kW systems).



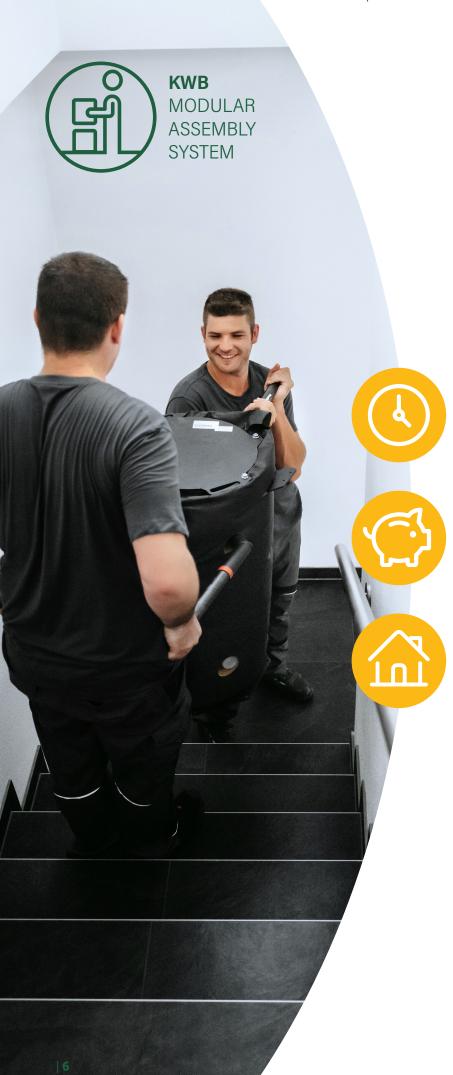
CLEAN FILTER TECHNOLOGY

Optional dust filter for cleanest exhaust gas with full fuel flexibility – with optional exhaust gas shutter for nonstop operation.



LARGE ASH CONTAINER

A 240 litre ash container is optionally available in particular for high output systems.



CLARITY IN BUILDAND PURPOSE

KWB'S MODULAR AND EASILY TRANSPORTABLE SYSTEM

All KWB systems can be dismantled into several modules, which allows our products to be placed in almost every heating room and easily installed even in tight spaces. We call it the **KWB modular and easily transportable system.**

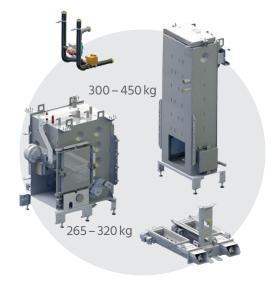
You can schedule less time

becuase your technician can move the heating system into the heating room more quickly.

You save money because your contractor works faster and does not require expensive installation aids.

You preserve and protect your space.

The reduced weight of the individual pieces makes it less likely that you scratch any surfaces of your furnishings.



EASY OPERATION

EASY AND FLEXIBLE CONTROL

The KWB Comfort 4 control system offers dual operation options with an intuitive dial and colour touchscreen. It provides information on

- ✓ the ash fill level
- ✓ the storage room fill level
- ✓ the maintenance interval

In addition, a solar system can be integrated and is also prepared for a link to the **KWB Comfort Online** platform.





ONLINE CONTROL

SECURE REMOTE-CONTROLLED HEATING

Even more convenience and operating safety is guaranteed by the online platform KWB Comfort Online. With this platform, the boiler can be easily remotely ignited, controlled and maintained from a smartphone, tablet or PC. Check on the operating status of your heating, control heating times and temperatures and receive messages and status changes via SMS or email. After a holiday, ignite the boiler while on your way home. If desired, you can also provide third parties with individual (temporary) access to your systems, such as your heating installer or KWB Customer Service.

HEATING NETWORKS

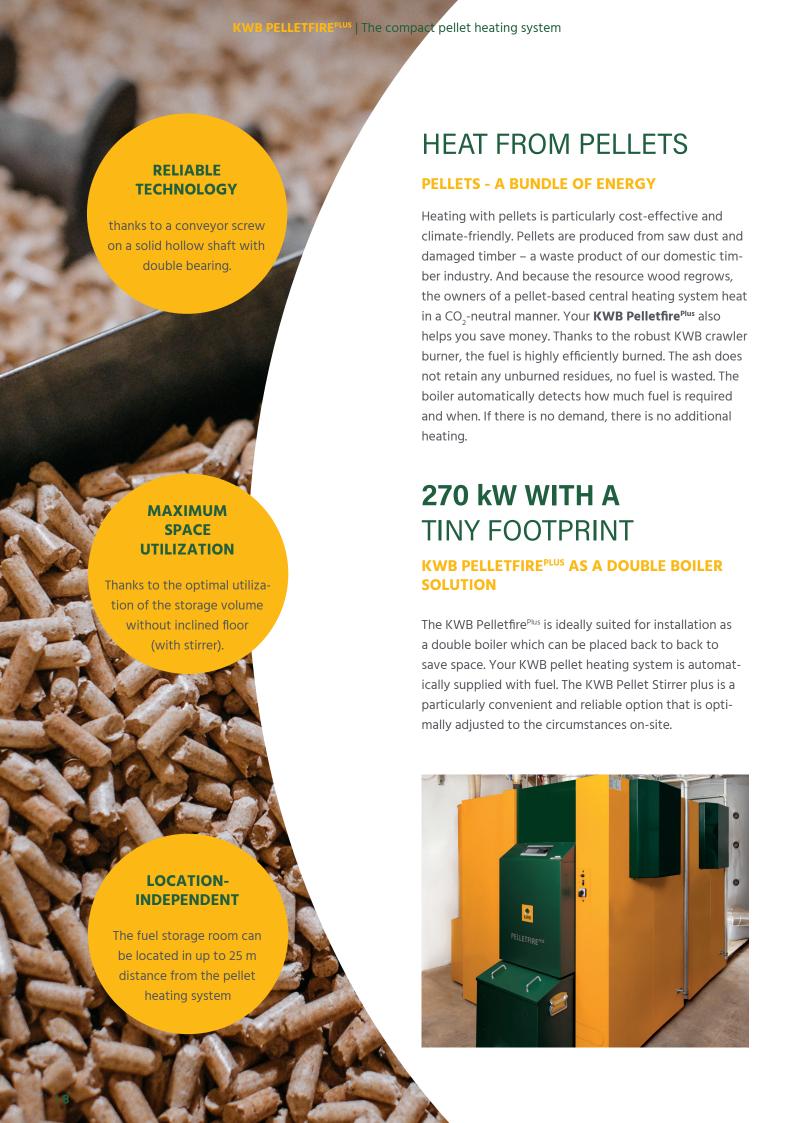
PERFECT BUFFER AND CASCADE MANAGEMENT

The heating system is optimally equipped for the supply of heating networks. With control modules, the desired values of the transfer sites can be transferred to the central main control using the bus system without the need for an external switch cabinet. The entire system can be monitored and controlled remotely with the KWB **Comfort Online** platform.

Due to the desired fail-safety, heating networks are often supplied by a multi-boiler system. This cascade may consist of several KWB biomass heating systems, but can also contain external boilers. A runtime-optimized control of up to 8 KWB biomass heating systems plus additional external peak load boiler is possible with the **new output-modulating** KWB Boiler sequence control. Activation occurs infinitely modulating. This results in an efficiency increase of the entire system with reduced emission values.

In addition, a seasonal operating mode and the integration of the boilers in the building control system via a ModBus interface is possible.





CUSTOMISED SOLUTIONS

KWB CONVEYOR SYSTEMS





CONVEYOR SCREW WITH ELBOW SCREW



KWB PELLET BIG BAG WITH ELBOW SCREW



WITH SUCTION CONVEYOR



CONVEYOR SCREW WITH SUCTION CONVEYOR



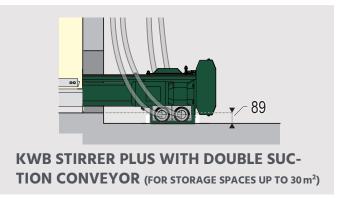
KWB PELLET BIG BAG WITH SUCTION CONVEYOR





SOLUTIONS FOR LARGE HEATING ROOMS (KWB CONVEYOR SYSTEM M)





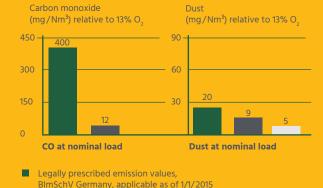
Symbol graphics

CLEAN COMBUSTION

CLEAN EFFICIENCY- TECHNOLOGY

The cleanEfficiency label indicates lowest emission values, highest efficiency and low energy consumption as well as a perfect alignment of construction and control elements.

EMISSION VALUES AT NOMINAL LOAD



- BImSchV Germany, applicable as of 1/1/2015
- Emission values KWB Pelletfire type R/ER 65 kW with pellets (13% O₂)
- Emission values KWB Pelletfire type R/ER 65 kW with pellets (13% O₂) with dust filter EPIL

Fuel consumption

A KWB Pelletfire Plus pellet heating system requires around 350 kg fuel per kW output.*

Quick heat and more efficiency

We recommend using a KWB storage system. This will not only allow you to run your heating cleaner and more efficiently, you will also be able to quickly have heat available when needed.

Recommended storage volume:

Optimally: Buffer volume = 1.5 litres x kW x 400 / K Minimum: Buffer volume = 1.0 litres x kW x 400 / K

kW: rated power of the boiler in kilowatt, K: temperature difference between buffer tank charging start/end (tMax - tMin) in Kelvin [K]

Please observe country-specific guidelines and subsidy requirements for the needed storage volume.

DIMENSIONS FOR BOILER TRANSPORT AND PLACEMENT

KWB Pelletfire Plus	45 – 75 kW	70 – 135 kW
Conditioned as delivered	1,540 x 660 x 1,680	1,850 x 800 x 1,800
Disassembled state combustion chamber	960 x 660 x 1,200	1,150 x 770 x 1,300
Disassembled state heat exchanger	720 x 660 x 1,680	860 x 800 x 1,800

Dimensions in mm | LxWxH

TECHNICAL DATA

MF2 R S/GS MF2 ER S/GS 27.07.2020	Unit	40	45 ¹	50 ¹	55 ¹	65 ¹	70 ¹	75 ¹	95 ¹	100 ²	108 ¹	115 ¹	125 ¹	135
Rated power	kW	40	45	50	55	65	70	75	95	99 / 101	108	115	125	135
Partial load	kW	10,3	14	15	17	20	21	23	29	30	32	35	38	41
Boiler efficiency at rated power	%	94,3	94	95	95	95	95	95	95	95	95	95	95	94
Boiler efficiency at partial load	%	93,1	93	94	94	94	95	95	95	95	95	94	94	94
Boiler class according to EN 303-5:2012	-	5	5	5	5	5	5	5	5	5	5	5	5	5
EU Energylabel	-	A+	A+	A+	A+	A+	A+	A+	A+	A+	A+	A+	A+	A+
Exhaust-gas side (for chimney calculation)														
Connection height exhaust-gas pipe	mm		>1395	>1395	>1395	>1395	>1445	>1445	>1445	>1445	>1445	>1445	>1445	>1445
Exhaust-gas pipe diameter	mm		150	150	150	150	180	180	180	200	200	200	200	200
Ash			0	0	0	0	0	0	0	0	0	0	0	0
Ash container volume	- 1		32	32	32	32	32	32	32	32	32	32	32	32
Electrical system														
Connection: CEE 5-pole 400 V _{AC} 3-pole 230 V _{AC}	-		50 Hz	50 Hz	50 Hz	50 Hz	50 Hz							
			13 A	13 A	13 A	13 A	13 A							
Connected power MF2 S	W		829	829	829	829	887	887	887	887	887	887	887	887
Connected power MF2 ZI	W		2529	2529	2529	2529	2587	2587	2587	2587	2587	2587	2587	2587
Connected load dust filter	W	115	115	115	115	115	115	115	115	115	115	115	115	115
Weights														
Heat exchanger module, assembled	kg		300	340	340	340	360	360	360	450	450	450	450	450
Burning chamber module, assembled	kg		265	265	265	265	320	320	320	320	320	320	320	320
Boiler weight MF2 S	kg		822	862	862	862	1002	1002	1002	1102	1102	1102	1102	1102
Boiler weight MF2 GS	kg		877	917	917	917	1057	1057	1057	1157	1157	1157	1157	1157
Weight dust filter (stand-alone)	kg	138-152	138 (152)	138 (152)	138 (152)	168 (203)	168 (203)	168 (203)	168 (203)	191 (203)	191 (203)	191 (203)	191 (203)	191 (203)

¹⁾ Drawing inspection

S = screw extraction GS = suction extraction R = recirculation

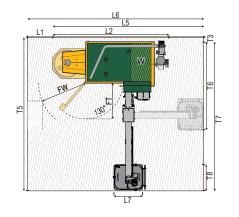


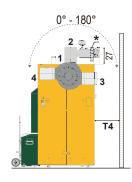
Product data sheet with detailed technical data: Scan QR code or download from our website under product pages.

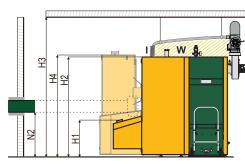
^{*} at 1,500 full load hours/year

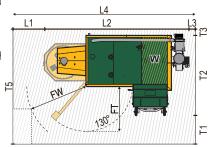
LOW SPACE REQUIREMENTS

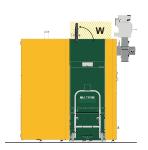
The KWB Pelletfire pellet heating system can be placed directly in room corners for optimal space utilization. Double-boiler systems can be placed back to back.











Heating room space of 5 m² for KWB Pelletfire^{Plus} 135 kW, heating room space of 13 m² for 2 x KWB Pelletfire^{Plus} 135 kW

	li de la companya de		55 kW	70 – 9	95 kW	100 – 135 kW	
Legen	d	S	GS	S	GS	Model R S	Model R GS
H1	Connection boiler-conveyor systems: upper dropping edge	62	-	62	-	62	-
H2	Height KWB Pelletfire ^{Plus}	159	159	167	167	167	167
Н3	Min. room height	198 (rec. 210)	198 (rec. 210)	200 (rec. 215)	200 (rec. 215)	206 (rec. 215)	206 (rec. 215)
	Min. room height - exhaust pipe is placed above heat exchanger	219 (Ø 150)	219 (Ø 150)	231 (Ø 180)	231 (Ø 180)	233 (Ø 2000)	233 (Ø 200)
H4	Connection height suction tank	-	177	-	177	-	177
N2	Lower edge conveyor channel M	78	-	78	-	78	-
	Difference in height - heating room to storage room	73	-	73	-	73	-
L1	Free space	42	18	47	23	47	23
L2	Heating system length	200*	224	221	245	233	257
L3	Free space	7	7	7	7	7	7
L4	Min. room length	>250	> 250	> 276	> 276	>288	> 288
L5	Heating system length with external ash extraction (90° placement)	285	309	306	330	318	342
L6	Min. room length for heating with external ash extraction (90° placement)	327	327	353	353	365	365
L7	Length of the ash bin 240 l	65	65	65	65	65	65
T1	Free space	40	40	40	40	40	40
T2	Heating system depth	124	124	135	135	135	135
Т3	Free space	11	11	11	11	11	11
Т4	Installation versions 1 Installation versions 2 Installation versions 3 Installation versions 4	without exhaust gas recirculation, minimum distance to the wall 11cm vertically upwards with minimum distance to wall 14 cm horizontally towards the rear with minimum distance to wall 40 cm horizontally towards the front					m
T5	Min. room depth (heating with external ash extraction, straight placement), type MF2 60 – 80 kW	336	336	336	336	336	336
Т6	Depth of heating with external ash extraction (90° placement), type MF2 $60-80\mathrm{kW}$	190	190	190	190	190	190
T7	Depth of heating with external ash extraction (straight placement)	325	325	325	325	325	325
T8	Depth of ash bin 240 l	58	58	58	58	58	58
FW	Clearance for maintenance	65	65	70	70	70	70
FT	Door clearance	63	63	75	75	80	80
W	Maintenance area	25	25	36	36	25	25

S = screw extraction

GS = suction extraction R = recirculation

^{*} The spiral casing can be turned in 45° increments.



Produktinfo KWB PelletfirePlus 20 EN Index 0 | 2020-10

Subject to changes as well as type and printing errors.

CONTACT US

SCOTLAND	+44 1330 826 504	info@originalheating.com
NORTH ENGLAND	+44 1524 784 323	care@sustaburn.co.uk
CENTRAL ENGLAND & WALES	+44 1162 604 050	info@ashwellbiomass.com
SOUTH ENGLAND	+44 1271 372 888	info@optimumheating.co.uk
IRELAND AND NORTHERN IRELAND	+44 2871 353108	info@originalheating.com
NORWAY	+47 69 22 70 60	post@hr-maskin.no
SWEDEN	+46 498 201750	info@gotfire.se
FINLAND	+358 9 50991	info.technics.fi@algol.fi
ESTLAND	+372 50 96 234	mati@heatpower.ee
JAPAN	+81 3 4405 8088	info@wbenergy.co.jp