



KWB

The Biomass Heating System

Product information

KWB CLASSICFIRE AND KWB COMBIFIRE

Log-wood and pellet heating system

*We provide
energy
for life!*



Optionally
available as
COMBIFIRE

KWB CLASSICFIRE

Log-wood and pellet heating system 18/28 kW

Classic and convenient heating

clean⁺ **EFFICIENCY**
Combustion technology

Biomass is best!

Four good reasons why you should use biomass as a renewable power source.



**Save on
heating costs**



**Security of
supply**



**Protecting
the climate**



**Creates
local jobs**

Valuable partnership



Erwin Stubenschrott
KWB Management

More than 2,000 installers and more than 70,000 customers put their trust in us by deciding to purchase a KWB biomass system. We regard this as a Partnership with KWB and this “valuable asset” is an integral component of our company philosophy and the basis of our business relationships. In addition, KWB focuses on customers, reliability and importantly our responsibility for our environment and future generations. This is my personal guarantee!

“KWB was recommended to me and I immediately felt like I was in good hands!”

Mr Fink from Kapfenstein



“Supporting regional companies is important to me, and KWB is the perfect example of trust and outstanding customer service!”

Mr Schantl from St. Stefan in Rosental



Our uniqueness sets us apart

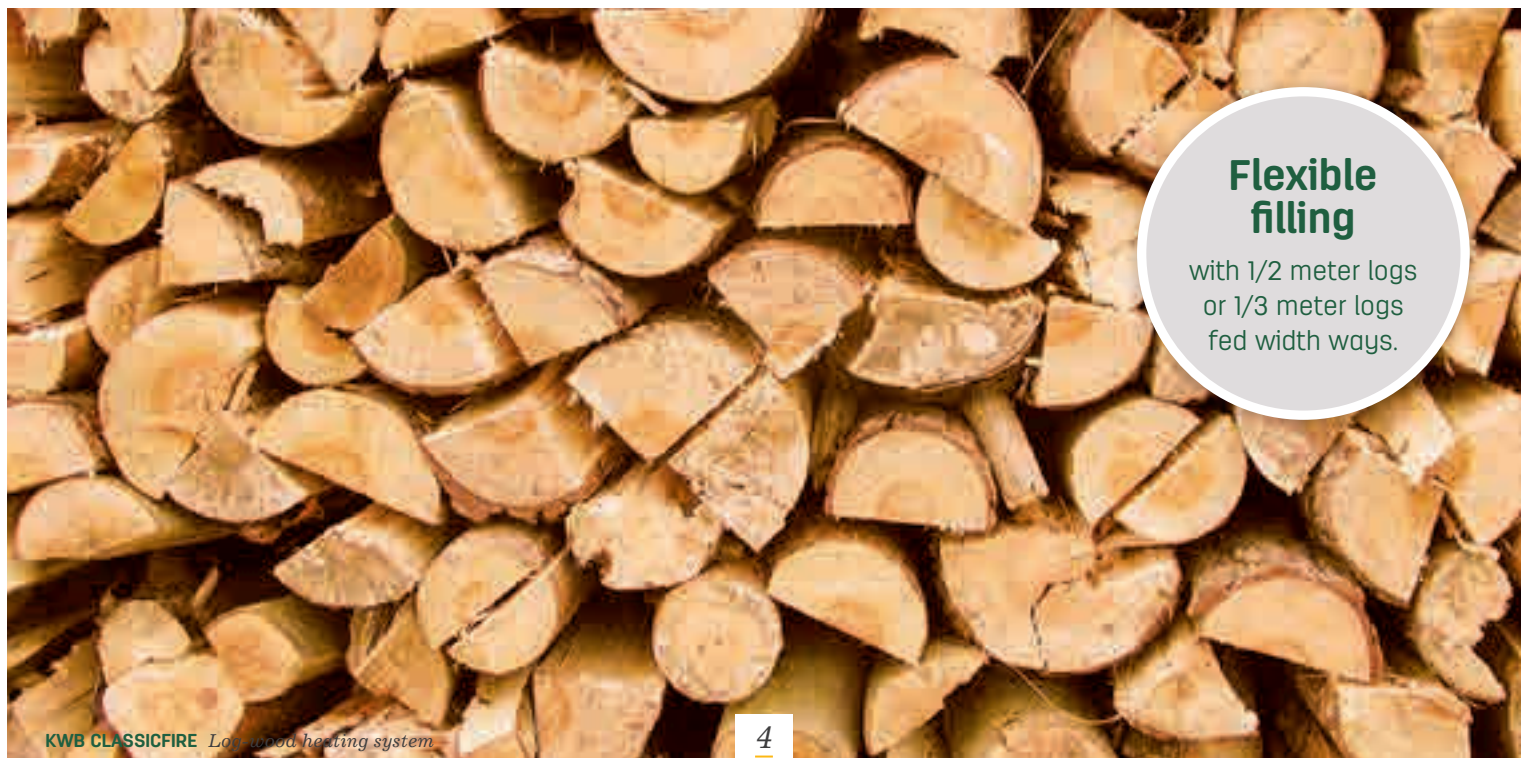
LARGEST FILL SPACE OF ITS CLASS

Your KWB log-wood heating system can be loaded conveniently in the traditional manner by putting in 1/2 or 1/3 meter logs widthwise. The fill space measuring 185 litres ensures exceptionally long intervals between refills.



Long intervals between refills

thanks to a 185 litre fill space!



Flexible filling

with 1/2 meter logs or 1/3 meter logs fed width ways.



Dual operation

EASY AND FLEXIBLE CONTROL



The new KWB Comfort 4 heating control system with dual control permits a customised and cost-optimised heat supply as well as the convenient operation of your heating system.

Easy operation

FOR TRADITIONAL HEATING

Ideal for customers who want to combine traditional heating with modern convenience: The KWB Classicfire log-wood heating system offers quick heat thanks to a quick-charge valve, automatic ignition and heat exchanger cleaning. The ash container hooks in directly under the stoking door so it is easy to empty and keep clean.



Classic and convenient heating

The KWB Classicfire log-wood heating system combines traditional wood heating with modern convenience. The capacity range of 18/28 kW makes the KWB Classicfire the ideal heating system for one- and two-family houses as well as agricultural companies. The KWB log-wood gasifier comes standard with a pellet flange, making it easy to upgrade to a combination boiler at a later point in time.



Comfortable heat at any time

Individually configurable ignition times ensure that you will have comfortable heat at any time – be it in the morning or when you come home.



Flexible heating

Thanks to the pellet flange, it is possible to upgrade to a combination boiler without major expenditures.

Clean combustion

Thanks to the broadband lambda probe

Less fuel consumption

thanks to a speed regulated induced draught fan, which enables a modulated capacity adjustment

Efficient heat transfer

thanks to an upright tube bundle heat exchanger with high efficiency turbulators

Convenient heat-up

thanks to the optional automatic ignition with configurable ignition times





Flexible and easy installation

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

Quick heat

thanks to the quick charge valve. Heating circuits and thus the rooms are quicker supplied with heat.



Dual operation

The KWB Comfort 4 Control, with the tried and tested control dial and touch screen display, permits flexible control – and even remote control.



Low emissions

thanks to a high temperature circulation combustion chamber with fly ash separation

Increased convenience

Added value items such as the automatic ignition, the automatic heat exchanger cleaning or the ash container provide even more comfort.



Our uniqueness sets us apart

OPTIMAL ALIGNMENT

The KWB Classicfire log-wood heating system is equipped with a pellet flange on its left side. This makes it possible to easily upgrade the wood gasifier boiler to a combination boiler. And this even 15 years later – thanks to the upgrade guarantee.



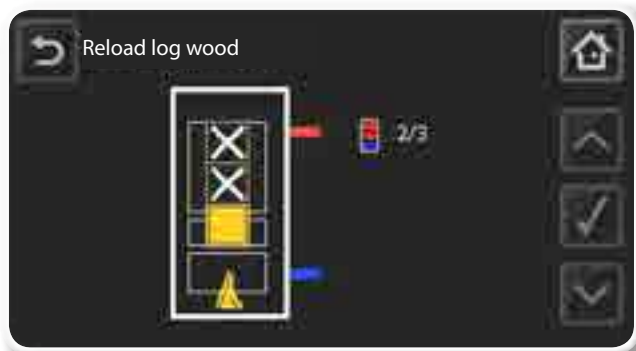
Optimal alignment

of combustion systems through shared use of a heat exchanger.



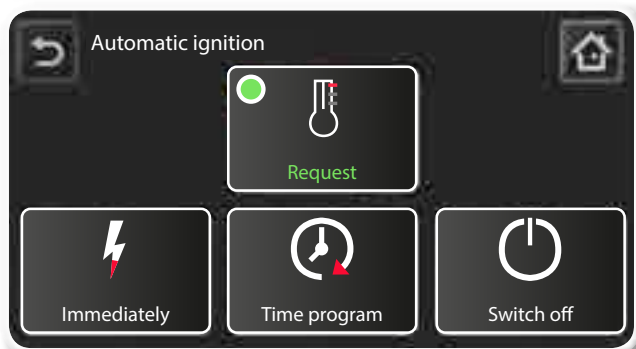
Easy operation

AUTOMATIC SWITCHING



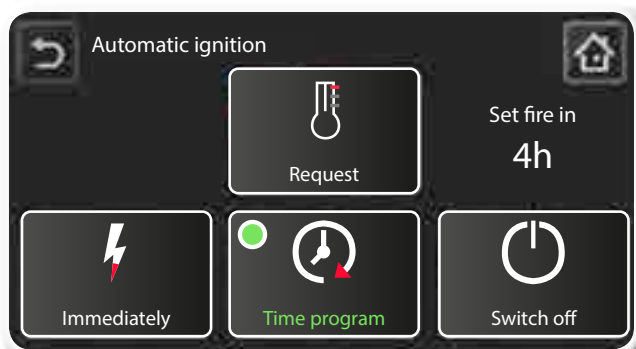
Save on fuel and costs

KWB Comfort 4's practical **fill level sensor** will always display how much log-wood you need to add to efficiently operate your system. As soon as the log-wood refill door is opened, the pellet module will stop operating. The combination boiler automatically takes care of switching between fuels in an optimized manner, which saves fuel and thus costs!



Comfortable consistent heat

The **request** ensures that your log-wood boiler automatically ignites as soon as the heating system requests heat. The system thus consistently maintains the room and warm water temperatures that you specified in the system.



Heating with highest efficiency

An individual **time program** is highly convenient, particularly when you need to efficiently bridge the times when you are away from home. The KWB Comfort 4 guarantees optimal recharging of the buffer storage tank in log-wood or pellet operation.

Flexible and safe heating

The KWB Combifire log-wood and pellet heating system combines the combustion systems for 2 fuel types in one efficient and optimized unified system with 1 shared heat exchanger. The capacity range of 18/28 kW makes the KWB Combifire the ideal heating system for one- and two-family houses as well as agricultural companies.



Tested and proven combustion system

with a cast underfeed burner
with a stainless steel burner plate



Convenient emptying of ash

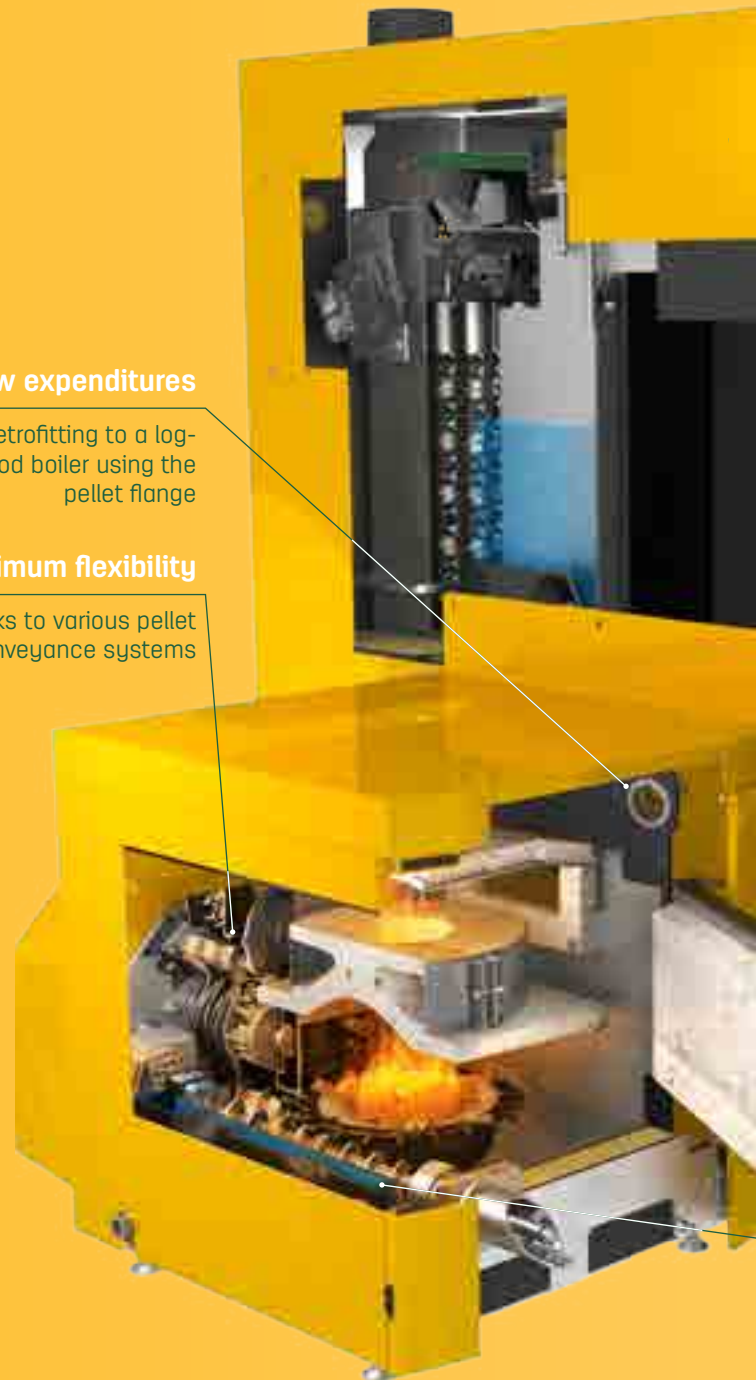
The ash is automatically removed into a dedicated ash container – The comfort version offers a movable ash container with an extendible handle.

Very low expenditures

when retrofitting to a log-wood boiler using the pellet flange

Maximum flexibility

thanks to various pellet conveyance systems





More efficiency

thanks to a water-jacketed pellet burner



High convenience

The automatic heat exchanger cleaning ensures low maintenance expenditures between service intervals.



Clean combustion

The system automatically switches between log-wood and pellets. Two independent combustion systems use 1 shared heat exchanger.

Customised solutions

KWB CONVEYOR SYSTEMS

Pellet
operation
using the
**KWB
COMBIFIRE**



**Pellet Stirrer Plus
with elbow screw**



**Conveyor screw
with elbow screw**



**KWB Pellet Big Bag
with elbow screw**



**Pellet Stirrer Plus
with suction conveyor**



**Conveyor screw
with suction conveyor**



**KWB Pellet Big Bag
with suction conveyor**



**KWB storage container
300l**



**KWB sample probes
with suction conveyor**



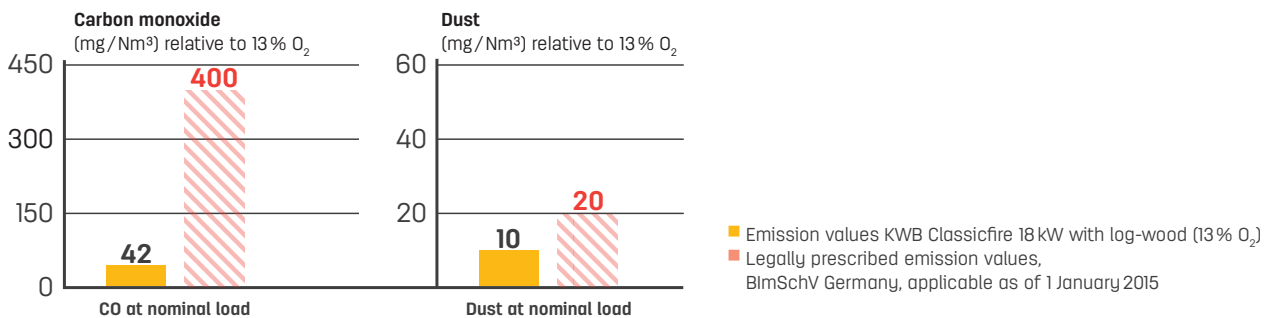
**KWB Pellet Box
with suction conveyor**

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



Technical specifications

CF2	Unit	18	28	22 *	30 *
Rated power	kW	18,3	28,6	22	30
Partial load	kW	14,3	14,3	6,6	9
Boiler efficiency at rated power	%	93,4	92,4	>90	>90
Boiler efficiency at partial load	%	93	93	>90	>90
Full load burn-off period	h	12,24	7,64	–	–
Boiler class according to EN 303-5:1999	–	5	5	5	5
Water side					
Buffer tank required	–	✓	✓	✓	✓
Minimum usable buffer tank volume	l	1800	1800	1800	1800
Recommended usable buffer tank volume	l	2500	2500	2500	2500
Exhaust-gas side (data for chimney design)					
Chimney connection height	mm	1590	1590	1590	1590
Exhaust-gas connection diameter	mm	150	150	150	150
Fill area					
Fill area volume	l	185	185	–	–
Width of fill doors	mm	440	440	–	–
Height of fill doors	mm	364	364	–	–
Electrical system					
Connection: CEE 3 pole	–	230 V _{AC} 50 Hz 13 A	230 V _{AC} 50 Hz 13 A	230 V _{AC} 50 Hz 13 A	230 V _{AC} 50 Hz 13 A
Weights					
Total weight	kg	719	719	850	850

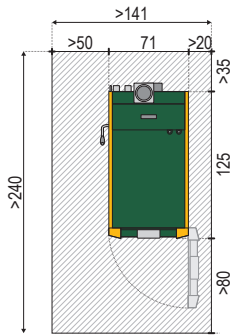
* Only valid for operation with pellet module

Note: You will find detailed KWB Classicfire technical specifications on our website's product pages.

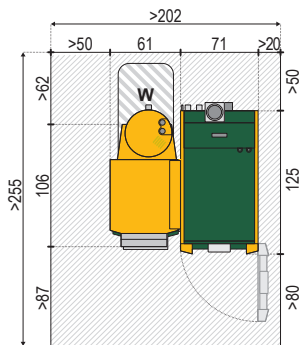
Low space requirements

Type CF2 18/28 kW

KWB Classicfire

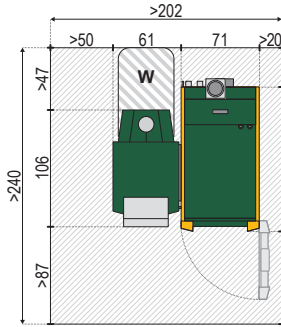


KWB Combifire with suction conveyor



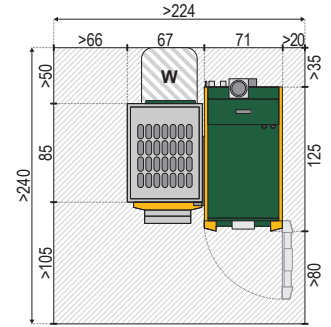
Heating room size 5.2 m²
Storage room size 13.5 m³
(18 kW) to 21.0 m³ (28 kW)

KWB Combifire with elbow screw



Heating room size 4.8 m²
Storage room size 13.5 m³
(18 kW) to 21.0 m³ (28 kW)

KWB Combifire with storage container

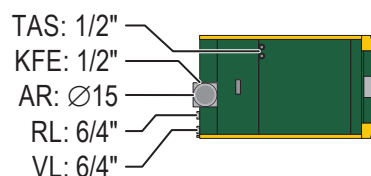
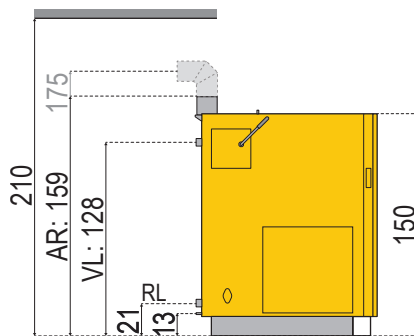


Dimensions for moving the boiler into the respective space

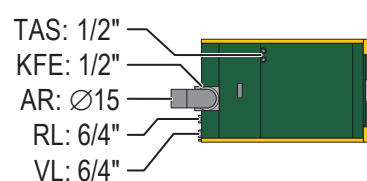
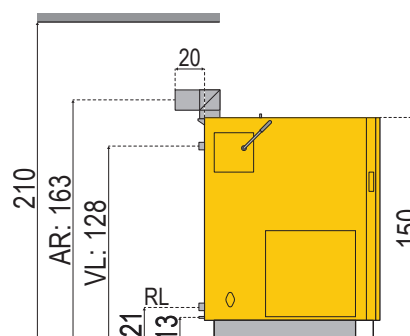
KWB Classicfire	Without casing, pre-assembled	Without casing, dismantled	With casing and cleaning lever
Door width / door height at least	71.5/180	70/180	80/180



KWB Classicfire CF2 standard version



KWB Classicfire with exhaust connection 90° to the rear



Legend

AR	Exhaust pipe Ø 150 mm (bend 0–90° optionally available)
KFE	Filling and emptying 1/2"
P	Space requirements for the pellet burner including clearance for maintenance

RF	Connection return flow 6/4"
TDV	Thermal discharge safety valve feed and discharge 1/2"
FF	Connection forward flow 6/4"

Note: You will find detailed KWB Classicfire technical specifications on our website's product pages (back page).

Scale 1:50 | All dimensions in cm | Width x Height | Distances stated are minimum distances!



Clear and simple assembly

KWB'S MODULAR ASSEMBLY 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 assembly system**.*



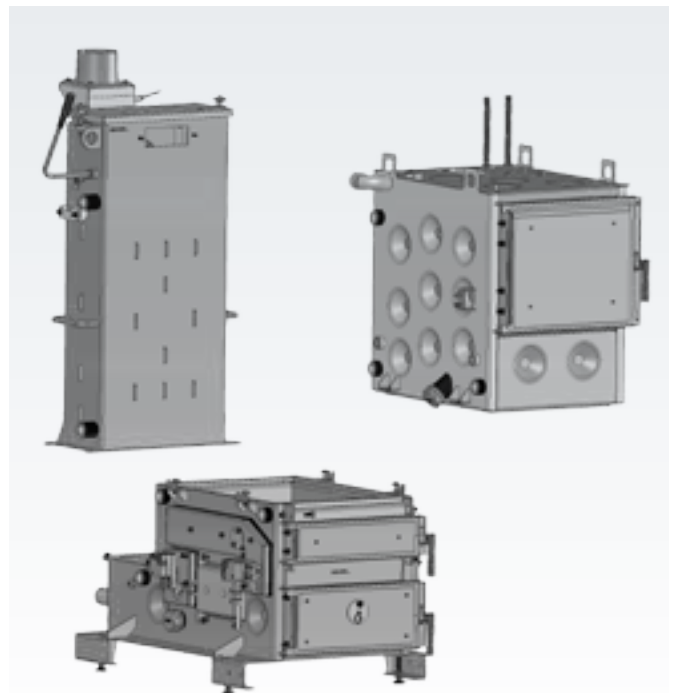
You can schedule less time because your technician can move the heating system into the heating room more quickly.



Simplified construction site coordination, since your technician does not require expensive installation aids.



The reduced weight of the individual pieces makes them less likely to scratch any surfaces thereby preserving and protecting the space.



KWB Classicfire – boiler can be dismantled into 3 parts



KWB partners

AVAILABLE ON-SITE

Your KWB Partner will be happy to help you if you have any questions or other requests. If you would like to contact KWB directly, you will find your local contacts here. We look forward to hearing from you!



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Interested party

first name, last name*
No./street name*
Postal code/town/city*
Tel./Mobile* E-mail

Sender (your address)

first name, last name*
No./street name*
Postal code/town/city*
Tel./Mobile* E-mail

* mandatory field

Porto zahlt
KWB gerne!

ANTWORTSENDUNG

KWB Die Biomasseheizung
Industriestrasse 235
8321 St. Margarethen/Raab
AUSTRIA

Your information will not be disclosed to third parties, but may be used for internal information purposes.

RECOMMEND US!

According to a recent customer survey, **97%** of all KWB customers recommend KWB and its products to others.

PI Classicfire CF2 2016 EN
Index 1

As at: March 2016, Subject to changes and to type and printing errors.

