

WOOD + PELLETS

DuoWIN

Hybrid Technology

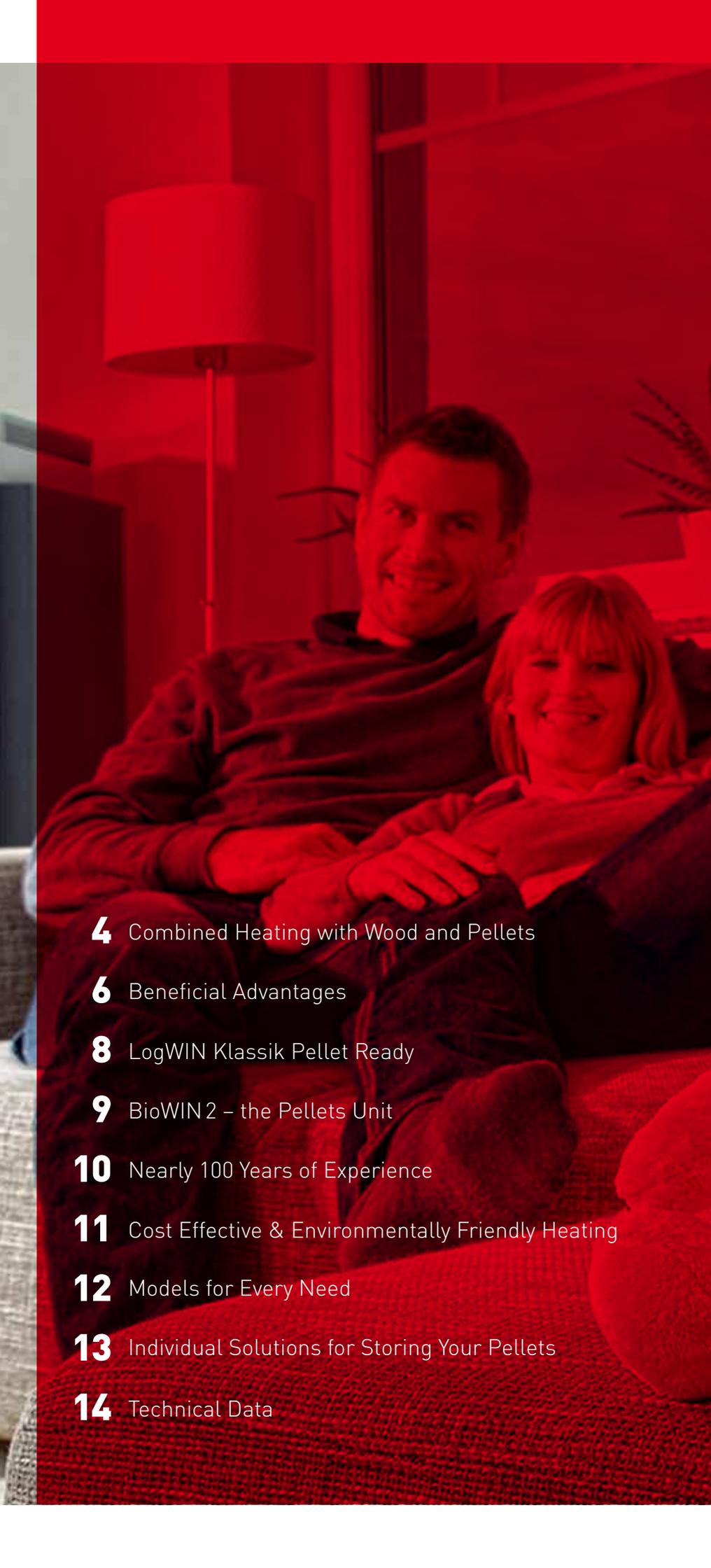
windhager

HEAT WITH VISION

myComfort
control app



Combined Heating with Wood and Pellets
Output Range: 4,3 to 56 kW

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Heat with Vision

For more than 90 years, we have been keeping families and homes warm throughout Europe. After decades of experience, we are experts in creating environmentally friendly heating solutions. By providing reliable comfort for both today and tomorrow, our heating solutions prove that our knowledge is the foundation of low carbon technologies. Clients receive heating systems tailor made to suit their needs, which will provide reliable warmth in their homes for decades.

We produce our high-quality boilers exclusively in Seekirchen am Wallersee, a small town near Salzburg, Austria. Our innovative products impress not only our customers, but also independent testing institutes, who regularly document our premium quality. All Windhager pellet boilers exceed European standards.



Efficient versatile and reliable



Combined Heating with Wood and Pellets

The DuoWIN with hybrid technology sets new standards for combined heating with wood and pellets. It is unbeatably efficient and quickly provides reliable warmth.

It has never been so easy to heat with both wood and pellets: the DuoWIN combines the best of both technologies in one unit. The hybrid boiler leaves no wishes unfulfilled in terms of comfort, and both fuels provide additional security of supply.



- Up to 25% more efficient pellets operation (energy optimised)
- PowerBoost function (comfort optimised)
- Pellets unit can be retrofitted

HYBRID TECHNOLOGY

Hybrid technology is defined as "a system where two technologies are combined."



Practical – DuoWIN

The DuoWIN's intelligent fuel switching detects when the wood gasifier is in burnout and switches to pellets operation either automatically or at a desired time, if too little energy is in the boiler and a heat accumulator is available.

More Power or Higher Efficiency

The DuoWIN can be hydraulically set to either comfort or energy optimised. If you need a lot of heat every now and then, (for example, if you own a hotel or need to heat a swimming pool), then the comfort-optimised version with PowerBoost function is ideal. The DuoWIN can simultaneously burn wood and pellets and very quickly provide a high output of up to 56 kW.

With the energy-optimised approach, the DuoWIN performs up to 25% more efficiently in pellets operation as compared to conventional combination boilers: the heat goes directly into the heating system without first heating the wood unit and the heat accumulator.

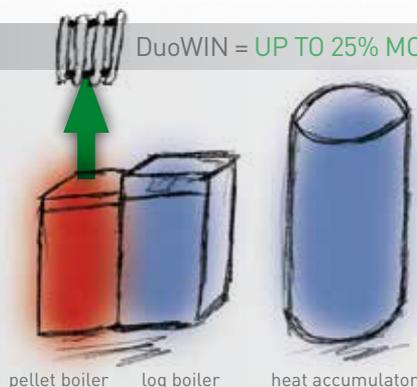
Double Reliability

Two independent heat exchanger systems guarantee maximum reliability with a smaller space requirement than other combination solutions. Another unique feature is that both the wood combustion chamber and the stainless steel pellet burner bowl are not wearing parts, and are included in our warranty*.

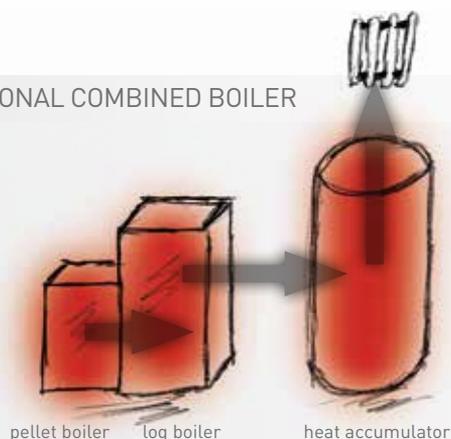
Even if you do not immediately opt for the DuoWIN, you can still change your mind. The LogWIN Klassik wood gasifier is pellet ready, which means that you can easily supplement it with the pellet boiler at a later time.

* Terms and conditions apply

DuoWIN = UP TO 25% MORE EFFICIENT



CONVENTIONAL COMBINED BOILER



Satisfaction in the Details

Beneficial Advantages

You will be satisfied with every detail of your DuoWIN. Each component has been carefully designed and uses cutting edge technology. The following features continue to prove the advantages of a DuoWIN – top quality with maximum convenience

- Smaller space requirement
- PowerBoost-Function
- Up to 25% more efficient in pellet operation
- Long maintenance intervals

INTELLIGENT FUEL SWITCHING

The hybrid boiler's automatic fuel changeover detects if the wood gasifier is in burnout. If there is too little energy available in the boiler or heat exchanger, the unit will change to pellet operation either automatically or after an individually adjustable time.

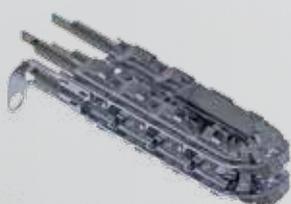
INDIVIDUAL PELLET FEED

The DuoWIN can be equipped with either a manual or fully automatic pellet feed. The daily use container for the manual version holds up to 107 kg pellets, significantly more than comparable combination boilers. For the fully automatic version, Windhager has developed a suction system with one, three, or eight suction probes and multiple pellet storage solutions.

TWO SEPARATE HEAT EXCHANGERS

Both independent heat exchanger systems guarantee maximum security. The wood combustion chamber and the stainless steel pellet burner are not considered wearing parts and are included in the guarantee.

IGNITION ELEMENT



COMBUSTION CHAMBER



ASH PAN





MORE POWER OR GREATER EFFICIENCY

The DuoWIN is available as either a comfort or an energy optimised variant. The PowerBoost function can meet short term higher heat demands up to 56kW. With the energy optimised version, the DuoWIN's pellet operation is up to 25% more efficient than conventional combination boilers.

WEAR-FREE IGNITION ELEMENTS

The DuoWIN's ignition elements are something special: they ignite silently, and are very robust and maintenance-free. Unlike all other pellet boiler manufacturers, it is included in our guarantee*, as it is not considered a wearing part.

SMALLER SPACE REQUIREMENT

With a 4.19 m² space requirement, including minimum clearances, the DuoWIN requires less space than other combination devices.

Heat with Wood and Pellets

LogWIN Klassik pellet ready

The 1/2 metre wood gasification boiler, LogWIN Klassik pellet ready, boasts many special features. It is particularly robust and can be upgraded to a DuoWIN with a pellet boiler at anytime, and thanks to its large filling chamber opening, wood can be easily added.

The patented, durable combustion chamber in the LogWIN Klassik pellet ready ensures a clean and efficient operation. It's attachable ash pan makes removing ash quick and easy. We recommend the optional automatic ignition for even more convenience: kindling is no longer needed, you save time, and your house is comfortably warm even after a prolonged absence. The ignition element is wear and maintenance-free, and is included in the warranty. The automatic ignition is included as standard with the DuoWIN.



View all 99 advantages at:
[www.windhager.co.uk/
products/log-gasification/
logwin-klassik-99-advantages](http://www.windhager.co.uk/products/log-gasification/logwin-klassik-99-advantages)



BioWIN 2 – The Pellet Unit

The DuoWIN's pellet unit guarantees longterm, trouble-free heating. Because the BioWIN 2 contains the best and most up-to-date technology, it has very long maintenance intervals.

For trouble-free operation, the ignition element is very important. It ignites silently, is maintenance free, and is included in the warranty. The robust stainless steel burner with LowDust technology burns so cleanly that the BioWIN 2 is well below the international emissions standards.



- Long maintenance intervals
- Robust stainless steel burner with LowDust technology
- Self-cleaning



Premium Quality

Nearly 100 Years of Experience

Windhager has been manufacturing high-quality wood heating systems for almost a century, pellet boilers since 1999, and has gathered over 500 million operating hours of experience in pellet boiler technology.

Enthusiastic customers all over the world: Windhager has sold more than 1/2 million wood and pellets heating solutions.



High-quality materials enable the particularly long service life of the DuoWIN. The boiler's steel and the burner's stainless steel are manufactured to the highest quality standards.

In addition to using state-of-the-art production technologies, Windhager relies on professional craftsmanship for the most important production steps.





Cost Effective & Environmentally Friendly Heating

Heating with wood and pellets is economical, and also actively contributes to climate protection.

Wood and pellets are renewable raw materials and will be available long into the future from sustainable sources. In its lifetime, a tree absorbs the same amount of carbon as it emits when it burns. Therefore, heating with wood and pellets is carbon neutral. Unlike fossil fuels, such as gas or oil, wood and pellets do not exacerbate the greenhouse effect. By purchasing a DuoWIN, you will be actively contributing to climate protection.

ECONOMICAL

Wood and wood pellet prices are very inexpensive and stable when compared to the steadily rising prices of fossil fuels.

RELIABLE SUPPLY

Wood is a renewable raw material and readily available. In addition, pellet production capacity in Europe is roughly double that of pellet consumption.

CLIMATE FRIENDLY

Burning wood and wood pellets as fuel is CO₂ neutral and therefore protects the climate.



Comfort When Needed



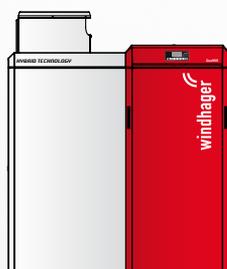
Models for Every Need

What do you require for comfort? The DuoWIN is available in eight different performance levels and comfort classes. All models detect themselves when they must switch to the other fuel, and change automatically.

We have adapted the DuoWIN hybrid boiler to suit your individual needs. You decide whether your DuoWIN is filled with pellets automatically or by hand. For manual filling, a daily use container with above-average size (up to 107 kilograms) is available for use.

Whether in Klassik design with manual filling, or Premium design with fully-automatic feed: all models are available in various performance levels.

With manual or fully automatic pellet feed



COMFORT CLASSES		PREMIUM	KLASSIK
Pellet feed		Fully automatic	By hand (daily use container 107 kg)
Heating surface cleaning	Wood Pellets	Semiautomatic Fully automatic	Semiautomatic Fully automatic
Ash removal	Wood Pellets	Attachable ash pan (by hand) Ash pan (fully automatic)	Attachable ash pan (by hand) Ash pan (fully automatic)
Fuel changeover (standard)		Fully automatic self recognition	Fully automatic self recognition



Individual Solutions for Storing Your Pellets

To ensure heating is as convenient as possible, we have set new standards in our pellet supply. Our fully-automatic suction system transports pellets carefully to your DuoWIN.

Whether you have a special room or a hopper for your pellets, we have a suitable suction system that transports pellets in an air current. The storage room does not need to be located directly next to the boiler room, because the hoses allow for transport distances of up to 25 metres. We offer three fully automatic models, each individually tailored to your pellet storage area: a single, triple, or eight probe solution.

PELLET STORAGE ROOM



We are particularly proud of our maintenance-free eight probe system, which provides the highest levels of comfort. Since the probes can be positioned however you choose, this system fits into every kind of storage room. It is also possible to store pellets in two separate rooms.

Eight probes with automatic switchover

BIOTOP

SHEET STEEL HOPPER

FABRIC HOPPER

BURIED HOPPER



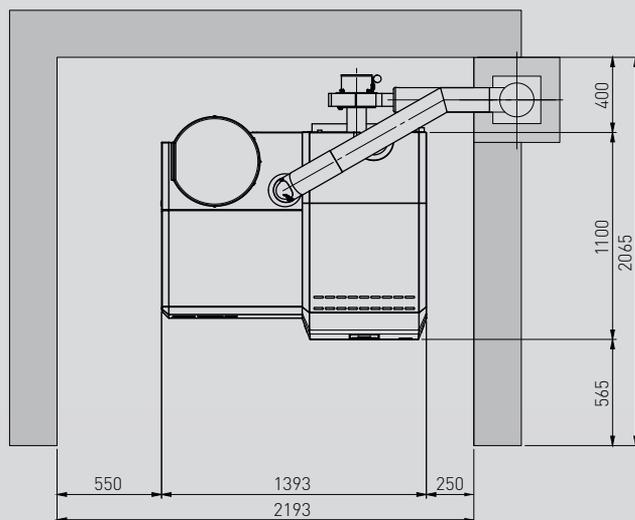
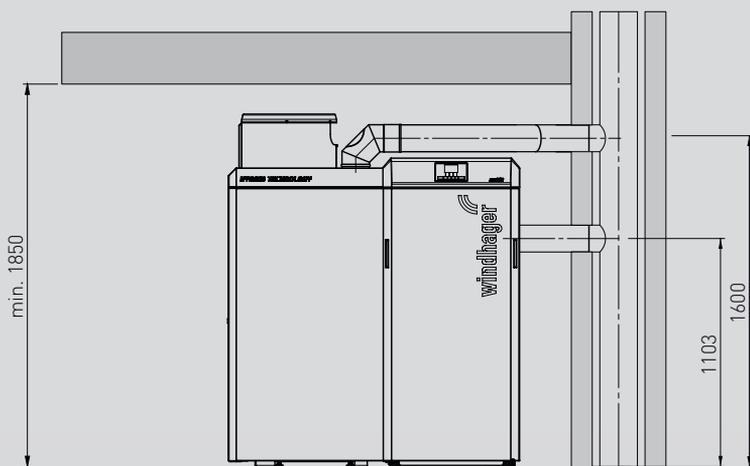
Technical Data



DuoWIN

Front view DuoWIN
Separate flue gas connection
*comply with local regulations

Minimum clearances DuoWIN
Separate flue gas connection
*comply with local regulations



All measurements in mm.

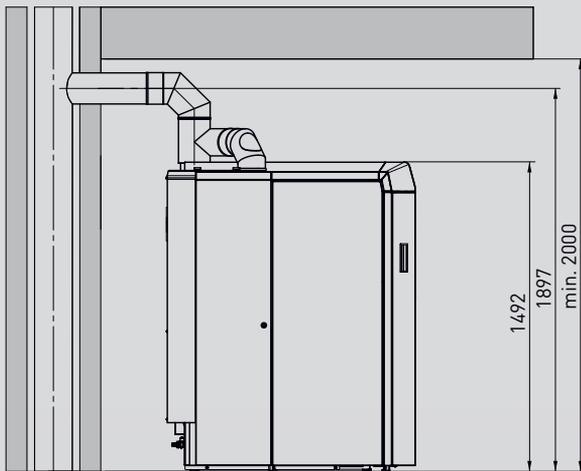
DuoWIN			DW K18 K15 DW K18 P15	DW K25 K21 DW K25 P21	DW K25 K26 DW K25 P26	DW K30 K26 DW K30 P26
Rated thermal output range	Wood Pellets	kW	15 – 18 4,3 – 15	15 – 25 6,3 – 21	15 – 25 7,6 – 26	15 – 30 7,6 – 26
Combined thermal output range of wood and pellets		kW	33	46	51	56
Boiler efficiency at nominal load	Wood / Pellets	%	90,9 / 93,8	90,7 ² / 93,9	90,7 ² / 93,9	90,5 / 93,9
Filling volume	Wood / Pellets	Litre	145 / 164			
Boiler dimensions H x W x D		mm	1.393 x 1.100 x 1.492 (1.705 ¹)			
Total weight	Wood/Pellets	kg	570/247–283 ³			
Flue gas connection diameter		mm	130			
Power consumption at nominal load	Wood / Pellets	W	43 / 33	49 ² / 41 ²	49 ² / 48	53 / 48

¹ DuoWIN height with fully automatic pellet feed ² Interpolated from two values.

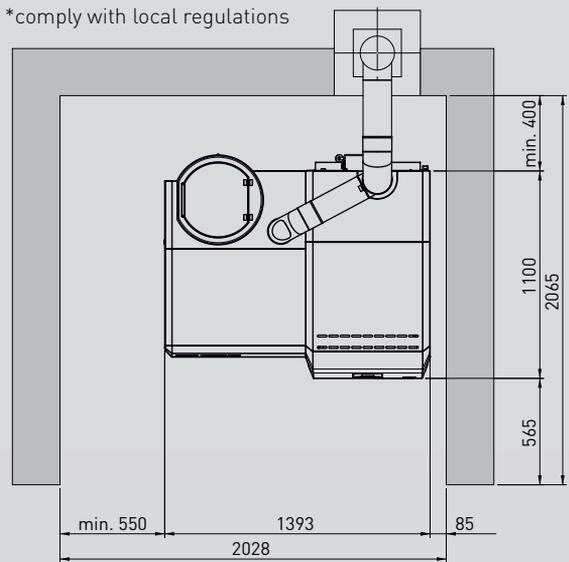
³ The actual weight depends on the model and can be somewhat reduced during transportation into the installation room by removing flexible parts.



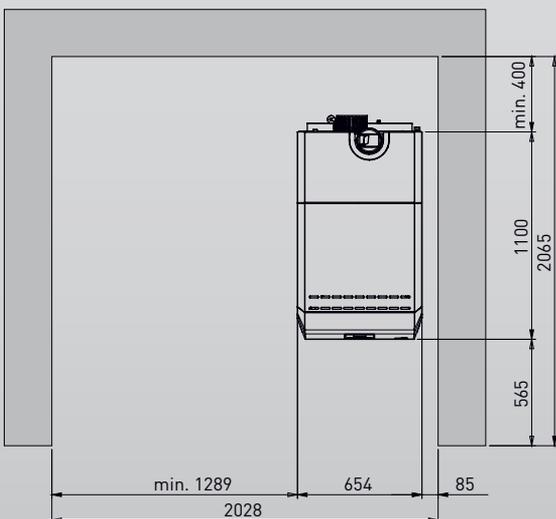
Side view DuoWIN
Flue gas collector set DUO 002
vertical installation
*comply with local regulations



Minimum clearances DuoWIN
Flue gas collector set DUO 002
vertical installation
*comply with local regulations



Minimum clearances LogWIN Klassik pellet ready



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