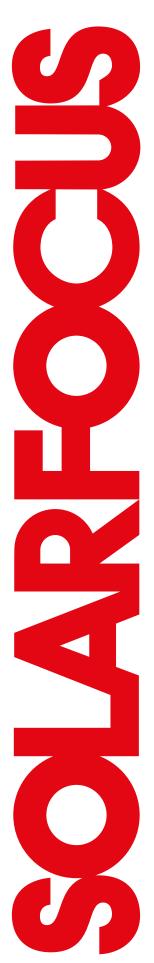
Pellet boiler

®

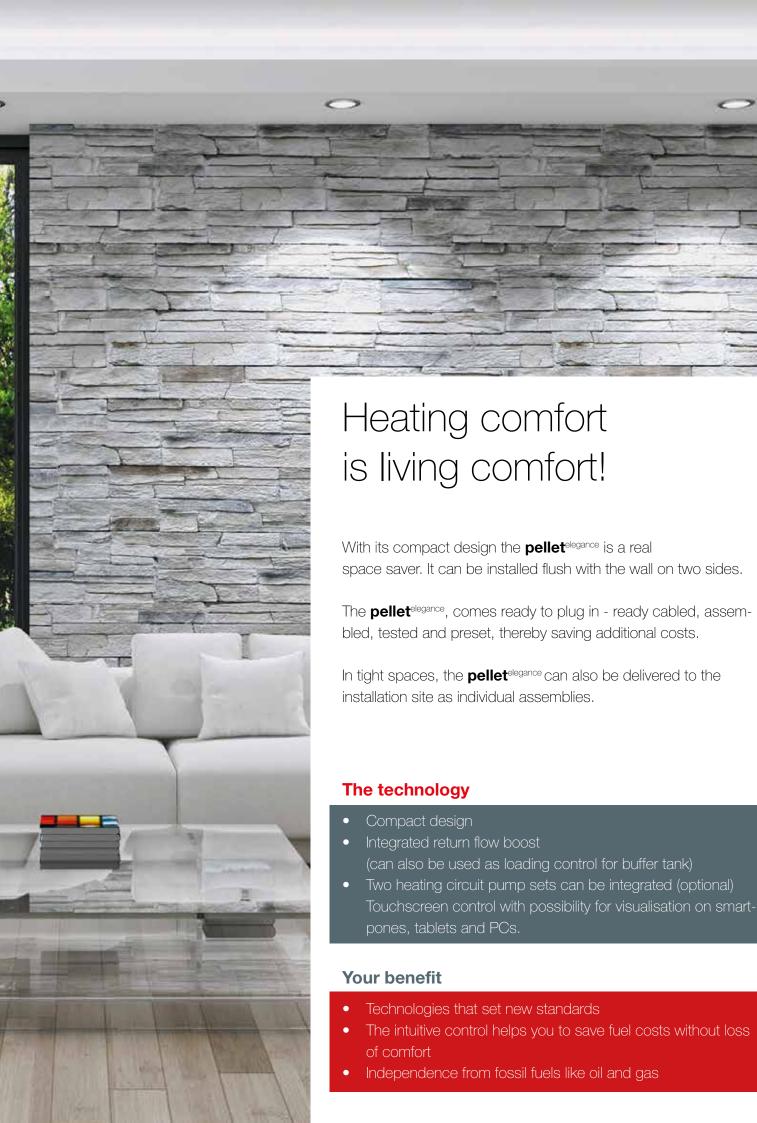
pellet^{elegance}



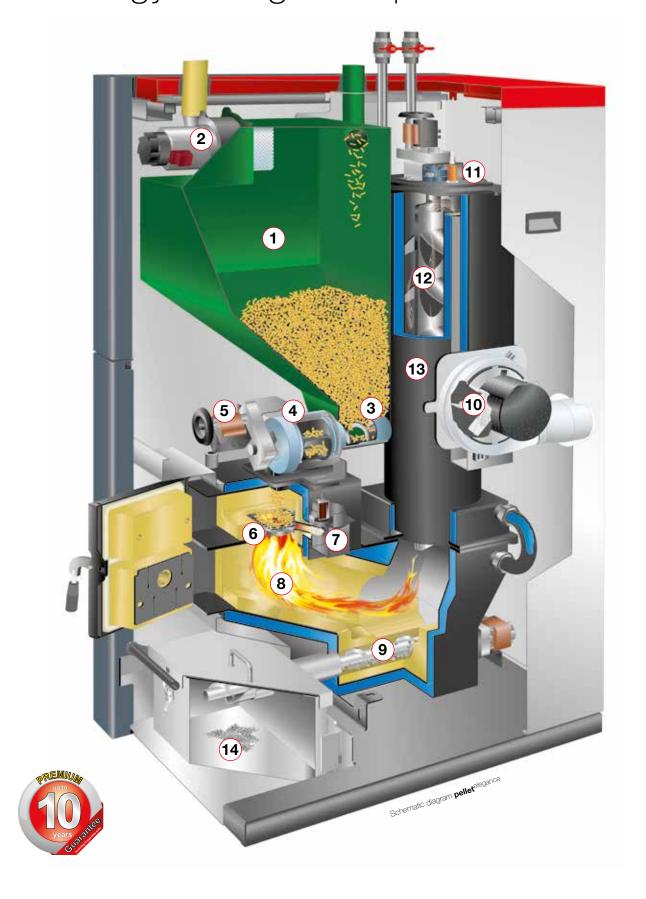
- + my**SOLARFOCUS** app:
- + Weather forecasting function
- + Integrated hydraulics







The energy-saving champion -



- Intermediate container for pellets (1) with suction turbine (2)
 The pellet elegance has a generous intermediate container. The suction turbine (2) enables filling of the intermediate container within pre-set times in a closed circuit.
- The boiler room and pellet storage room do not have to be directly adjacent to each other. The suction turbine is directly mounted onto the intermediate container for pellets.

Heating makes fun!

Auger feeder (3) with single axis rotary valve (4)

- The pellets are transported from the intermediate container by the feed auger into the single axis rotary valve. The single axis rotary valve hermetically seals-off the combustion chamber from the intermediate container. Six -chamber system - in one axis to the insert screw with a directly flanged, maintenance-free gear motor (5).
- 100% backburn-proof even if there is a power failure. Minimum power consumption. No chains or gear wheels - low noise and maintenance free.

Stainless steel grate (6)

- The pellets fall from above through the single axis rotary valve onto the stainless steel combustion grate.
- The fire is not disturbed as the pellets feed from ABOVE on the fire-bed. with no mixing of ash and embers with the pellets = best efficiency!



Technology • Benefit

Automatic ignition (7)

- Ignition of the pellets is fully automatic via a highly heat-resistant solid ceramic glow pencil.
- The glow pencil only requires 260 W. The glow pencil operates quietly and is maintenance-free.

Downfiring combustion technology/pellets gasification (8)

- When using downfiring combustion technology (8) (wood gasification technology) the released gas is sucked through the grate and burned (residue-free) in the combustion chamber (9) with a flame tip temperature of approx. 1,200°C.
- Efficient fuel utilization, highest efficiencies.

Stainless grate cleaning (9)

- The downfiring combustion technology automatically transports the ash downwards into the ash pan.
- In underfeed and case stage systems, the ash has to be removed mechanically via a complex mechanism (reversible stainless, tilting grate, grate, ...).

Induced draft fan (10)

- The combustion air sucked in is regulated by the ID fan.
- Efficient external rotor motor with stainless steel fan vanes, low noise, maintenance free with speed monitoring. The flue pipe connection can be rotated and the outlet can either be at the top or at the rear. This means that the boiler can be installed flush with the wall on two sides.

Lambda sensor (11)

- The Lambda technology enables uniform combustion of the pellets in the pelletelegance. Lambda technology is essential to ensure maximum efficiency with different load ranges.
- Guarantees environmentally-friendly, energy-saving combustion in all load ranges Decades of experience using Lambda technology since 1981.

Heat exchanger cleaning system (12)

- Turbulators (12) clean the walls of the heat exchanger (13) at regular preset intervals. Increased exhaust gas temperature results in a loss of efficiency. Clean fuel exchangers save fuel! A clean heat exchanger saves fuel!
- AUTOMATIC means AUTOMATIC! Uniform efficiency saves energy costs! No manual after-cleaning needed. Maintenance-free.

Automatic ash extraction (14)

- The ash is automatically transported into a 16.3 litre ash box.
- Long emptying intervals make for a convenient heating. On request your mobile phone notifies you via SMS when the ash box has to be emptied.

Innovative technical solutions

Wood gasification technology

When using downfiring combustion technology (wood gasification technology) the released gas is sucked through the grate and burned (residue-free) in the combustion chamber with a flame tip temperature of approx. 1,200°C. Dabei fallen die Pellets von oben auf das kühlere Brennstoffbett, sodass das heiße Glutbett nicht zerstört wird. Das gelöste Holzgas wird durch den Brennrost gesaugt und in der Brennkammer mit einer Flammenspitzentemperatur von ca. 1.200°C restlos verbrannt. Die letzten Reste an brennbaren Teilen, die in der Asche vorhanden sind, werden ebenfalls verbrannt.

- + Efficient fuel utilization
- + Saves fuel



The auger feeder with single axis rotary valve transports the pellets from the intermediate container. The single axis rotary valve hermetically seals-off the combustion chamber from the intermediate container. 100% backburn-proof even if there is a power failure. Six-chamber system - along an axis to the feed auger with a direct flangedconnection, maintenance free drive motor.

- + No chains and gears
- + Maintenance free and simply structure

Automatically heat exchanger cleaning

The cleaning of the heat exchanger is crucial when it comes to ensuring a consistently high level of efficiency. With the patented turbulators, cleaning takes place via a rotating scraping edge. The turbulators clean the surface of the heat exchanger so well that no after-cleaning is needed. The flowoptimised guide plates ensure even better heat transfer of the flue gas and low flue gas temperatures.

- + Consistently high efficiency
- + Low flow gas temperatures

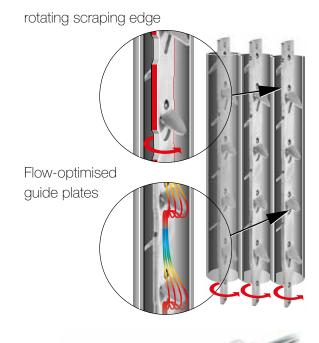
Lambda sensor

The lambda technology is essential to ensure maximum efficiency with different load ranges. It is the core for a controlled and emission-free combustion.

- + Many years of experience with lambda sensor since 1981
- + Clean combustion with minimal dust values







Integrated hydraulic

The return booster module with mixer motor for buffer/DHW tank charging is pre-integrated. If required, up to two additio-nal heating circuit pump sets with 3-way mixing valve and servomotor can be easily installed in the boiler. All connections exit at the top and the components are easily accessible.

- + Return flow boost already integrated
- + Up to 2 heating circuits can be integrated in a boiler



Automatic ash extraction

The ash is automatically transported into a 16.3 litre ash box.

- + Long emptying intervals make for a convenient heating.
- + On request your mobile phone notifies you via SMS when the ash box has to be emptied.



Unit easily flush-mounted on two sides

With a just 0.54 m² footprint, the compact boiler is ideal for small boiler or installation rooms. In addition, the boiler can be installed flush with the wall on two sides. All connections exit at the top. If required, the flue pipe connection can be rotated, and the outlet can either be at the top or at the rear.

- + Only 0.54 m² footprint
- + Flue pipe connection traversable (top / rear)



Flexibility

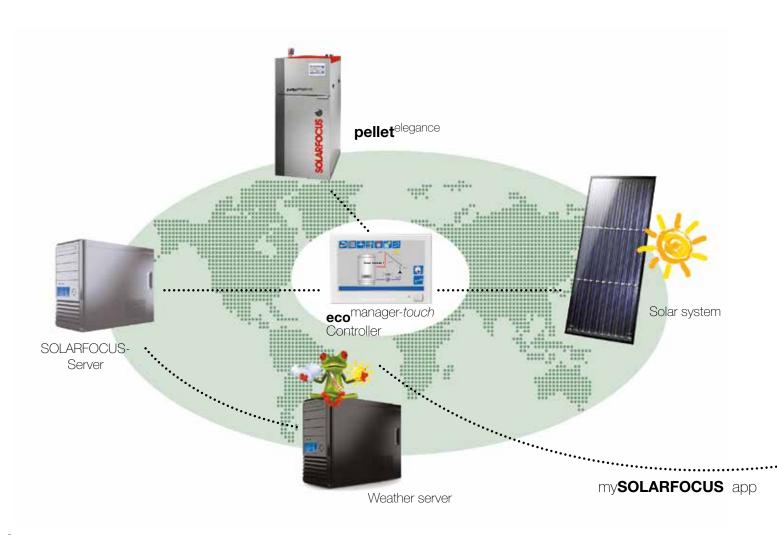
The **pellet**^{elegance} is supplied ready cabled, assembled, tested and preset as standard, which saves costs and time. In tight spaces, the **pellet**^{elegance} can also be delivered to the installation site as individual assemblies, the heaviest of which weighs just 93 kg.

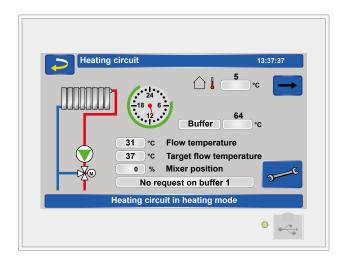
- + Delivered ready for connection
- + Modular design allows flexibility



Intelligent controller

- + Intuitive control unit with 7" touch display
- + Takes the weather forecast into consideration
- + my**SOLARFOCUS** app





Weather forecasting function

The weather forecastin funtion (Wheater man) is integrated as standard.

This remarkable innovation not only gives the user added convenience but also helps save money. The control unit accesses live data from a weather server and uses this to tell the **pellet**^{elegance} when to heat – or when to remain inactive, because sunshine is expected.



ecomanager-touch

helps you to measure and control!

Both changing outside temperatures and the own personal living habits are taken into consideration. If the boiler is used in combination with a solar system, the burner only starts up when the required heating energy cannot be provided in full by the solar system. This prevents any uneconomical boiler starts.

Der **eco**^{manager-touch} ist sehr einfach zubedienen. It enables individual settings and ensures a perfectly tailored heating system.



my**SOLARFOCUS** app

You can control the heating system even more comfortably with the mySOLARFOCUS app. In combination with the Weatherman, it takes just a few seconds to set your heating via your smartphone. It does not matter where you are, in the office, on the couch or on vacation. App for smartphone (Android and Apple) with attractive design for intuitive operation of the main heating parameters. Possibility to visualise the solar yield with the installed heat meters and control unit via ecomanager-touch.

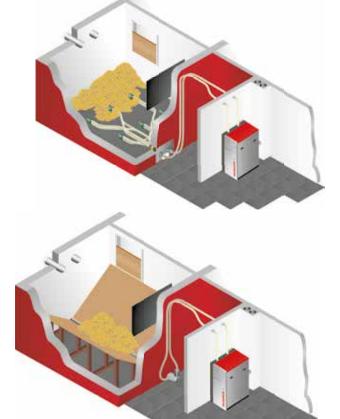
Storeroom and conveying system

pellet^{elegance} with suction system with suction heads manual or automatic

- Maximum hose length 20 m Maximum auger height 2.5 m
- Optimum utilisation of space Minimum installation effort For damp storage areas/rooms

pellet^{elegance} with vacuum system with extraction auger

- Maximum hose length 35 m Maximum auger height 5 m
- Maximum auger length 6 m
- Complete storage room emptying



pellet^{elegance} with Pelletsbox 350 litre with suction head for manual filling or Pelletsbox with suction system

Extraction with auger

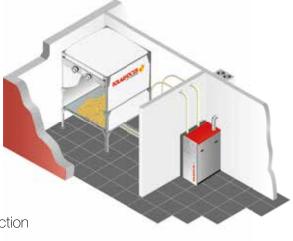
 Maximum hose length 35 m Maximum auger height 5 m

Extraction with suction head

 Maximum hose length 20 m Maximum auger height 2.5 m

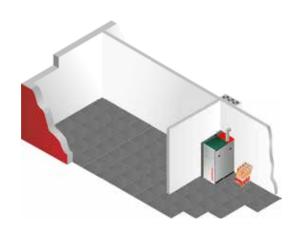






pellet^{elegance} with manual storage container zum manuellen Befüllen

• Available for **pellet**^{elegance} 10 and **pellet**^{elegance} 15

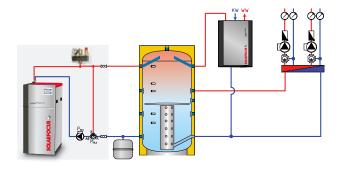


Standard schemas

pellet^{elegance} with stratified buffer storage tank and fresh water module FWM^{autark}

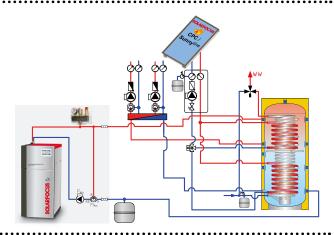


The grey-shaded area on the diagram, the return booster module with mixer motor for buffer/DHW tank charging is integrated into the **pellet** elegance (standard).



pellet^{elegance} with HYKO storage tank and solar plant

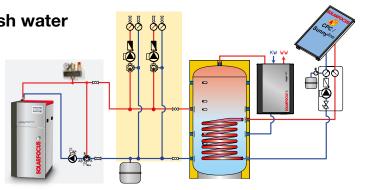




pellet^{elegance} with buffer storage tank, fresh water module FWMautark and solar plant

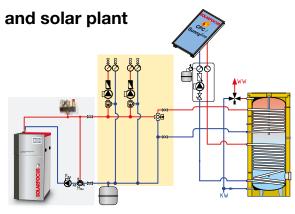


The yellow-shaded area on the diagram, heating circuit 1 and heating circuit 2 can be directly integrated into the **pellet**^{elegance} (optional, NOT included in scope of delivery).



pellet^{elegance} with drinking water storage tank and solar plant

More hydraulic schemes are available - we can help you by planning!



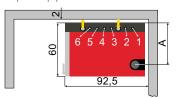
Buffer tank

- Also recommended for automatically charged boilers SOLARFOCUS the installation of a buffer tank
- Better adaptation to the required heat load
- The boiler always runs in the optimum operating range
- Minimization of boiler starts
- Extend the life of your boiler
- Can be perfectly combined with solar systems

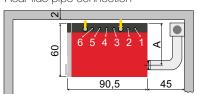
Technical specifications

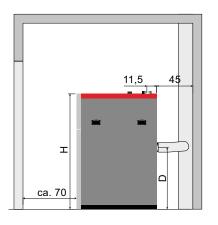


Top flue pipe connection



Rear flue pipe connection







Also for ambient air-independent operation!

pellet ^{elegance}		10	15	20	24
Capacity	[kW]	2.9 - 9.9	4.4 - 14.9	5.9 - 19.8	7.2 - 24
Product label energy efficiency class		A+	A+	A+	A+
Composite label energy efficiency class		A+	A+	A++	A++
Height incl. adjustable feet (without connections)* H	[cm]	130	130	157	157
Flue gas pipe DM	[cm]	10	10	13	13
Höhe Abgasrohrmitte* D	[cm]	70	70	72	72
Weight	[kg]	198	198	250	250
Water content	[1]	25	25	36	36
Pellet-Vorratsbehälter	[1]	48	48	88	88
Ash box	[1]	16,3	16,3	16,3	16,3
A	[cm]	44	44	47	47
Minimum room height	[cm]	180	180	200	200
Thermal overload protection			not required		1/2" AG

Quality made in Austria

- Biomass heating
- Solar energy systems
- Heat pumps





Products for















Pellets

Pellets + log wood

Log wood

Wood chips

Solar energy

Heat Pump

Your personal advisor

Austria

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^{*} Adjustable feet at maximum depth of thread

1) Buffer storage tank return flow (Drinking water tank return flow), 2) Buffer storage tank flow (Drinking water tank flow), 3) Heating circuit 1 return flow, 4)
Heating circuit 1 flow, 5) Heating circuit 2 return flow, 6) Heating circuit 2 flow. All connections 1* flatsealing.