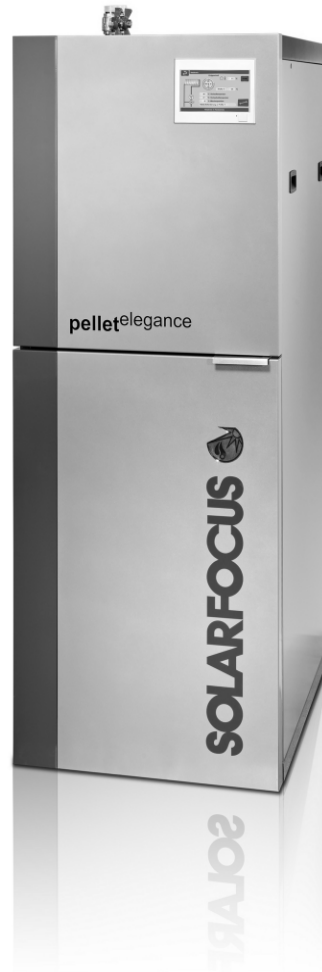


pellet<sup>elegance</sup> 10/15



pellet<sup>elegance</sup> 20/24



# Pellet boiler **pelletelegance**

## Technical Report

# 1 Technical specifications

pelletelegance		10	15	20	24
Power range [kW]		2.9 - 9.9	4.4 - 14.9	5.9 - 19.8	7.2 - 24
Energy efficiency class		A+			
Boiler class (acc. to EN 305:5 2012)		5			
Boiler efficiency - full load	[%]	93.80	93.90	94	94.40
Boiler efficiency - Partial load	[%]	94	92.42	94.30	94.30
Dimensions					
Width	[cm]	60			
Depth	[cm]	90.5			
Height (H) - incl. adjustable feet, feet screwed in all the way - without hydraulic connections on the top of the boiler	[cm]	130		157	
Minimum room height	[cm]	180		185	
Weight					
Weight	[kg]	288		329	
waterside					
Water content		25		36	
Thermal overload protection		not required			External thread 1/2"
Drain		External thread1/2"			
Maximum operating pressure	[bar]	3			
Fuel					
Fuel		Wood pellets acc. to EN17225-2, ENplus-A1			
Intermediate pellet storage volume	[l]	48		88	
Flue gas side					
Flue gas pipe diameter	[cm]	10		13	
Height to centre of flue gas pipe (D)	[cm]	70		72	
Centre of flue gas pipe - side (A)	[cm]	44		47	
Capacity of ash container	[l]	16.3		16.3	
Flue gas mass flow full load	[g/s]	5.5	8.4	10.5	12.5
Flue gas mass flow partial load	[g/s]	2.5	3	3.5	4.1
Maximum flue gas temperature [1] full load	[°C]	140			
Maximum flue gas temperature [1] partial load	[°C]	100			
Minimum draught requirement [2]	[Pa]	5			
Emissions according to test report					
Flue gas values (based on 13% O2) from test report: test institute / test report no.		TÜV Austria /14-UW-Wels-EX-425-1	TÜV Austria / 14- U-023/ALN	TÜV Austria /14-UW-Wels-EX-425-2	TÜV Austria /14-UW-Wels-EX-425-3
CO full load	[mg/m³]	30	30	30	49
CO partial load	[mg/m³]	168	132	97	97
NOx full load	[mg/m³]	112	112	112	111
NOx partial load	[mg/m³]	111	108	105	105
Org. C full load	[mg/m³]	3	3	3	3
Org. C partial load	[mg/m³]	4	3	3	3
Dust content full load	[mg/m³]	11	13	13	12
Dust content partial load	[mg/m³]	12	13	14	14

pelletelegance		10	15	20	24
Norm (EU)2015/1187					
Nominal heating output	[kW]	9.9	14.9	15.5	22
Energy efficiency class of the boiler		A+	A+	A+	A+
System Energy efficiency class EEI of boiler and controller		A+	A+	A+	A++
Energy efficiency index EEI of the boiler		114	119	121	122
System Energy efficiency class EEI of boiler and controller		118	123	125	126
Space heating annual usage etaS	[%]	77	80	82	83
<b>Annual emission values</b>					
CO - carbon monoxide	[mg/m³]	93	103	112	116
NOX - nitrogen oxide	[mg/m³]	140	143	146	145
C - total (carbon)	[mg/m³]	4	4	3	3
Dust	[mg/m³]	19	19	20	20

[1] Flue gas temperature can be adjusted electronically.

[2] A draught stabiliser must be fitted if the specified draught of 15 Pa is exceeded (Caution: In a boiler with room-sealed operation, use a room-sealed independent draught limiter)

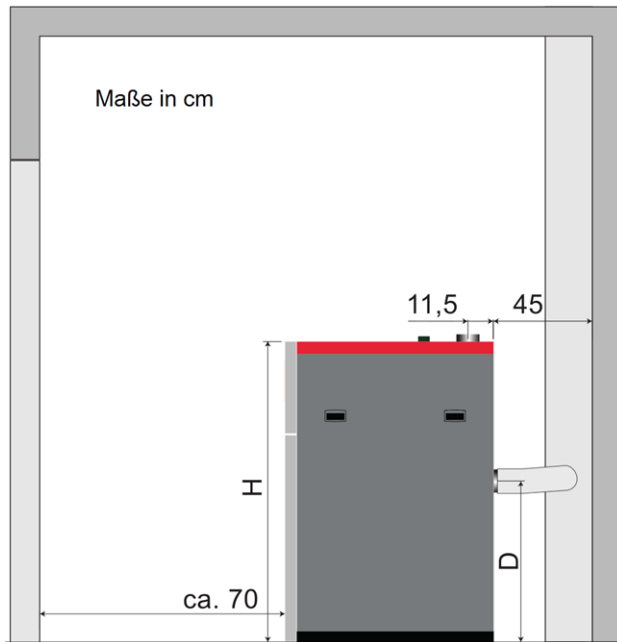
The above data are values from the test bench measurement (state-authorized testing institute TÜV Austria), a deviation from locally measured values is possible.

Austria: The system (the heating boiler mentioned here) is, in regard to the placing on the market in Austria, currently subject to the ÖNORM EN 303-5 provisions and the agreement of the Austrian Federal Provinces according to Article 15a of the Federal Constitutional Law (Art. 15a B-VG) about protective measures relating to small combustion systems/energy saving.

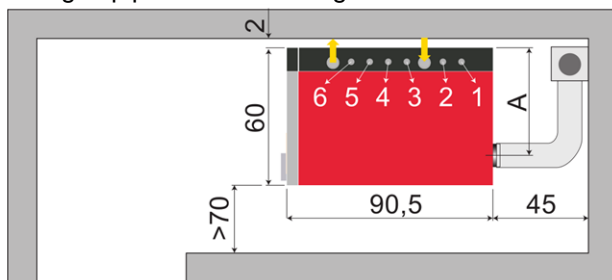
Germany: The 1st BImSchV (Federal Immission Control Ordinance) - Stage 2 stipulates a tightening of the emission limits for boilers that were installed after 31.12.2014. SOLARFOCUS GmbH confirms, that all boilers supplied comply with these required limit values.

## 2 Dimensions and connections

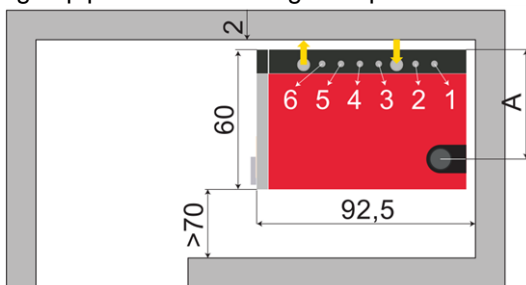
All hydraulic connections external thread 1" flat sealing.



Flue gas pipe connection aligned backwards



Flue gas pipe connection aligned upwards



- 1 Buffer tank return / DHW tank return
- 2 Buffer tank flow / DHW tank flow
- ↓ Pellet suction
- 3 Heating circuit 1 - return
- 4 Heating circuit 1 - flow
- 5 Heating circuit 2 - return
- 6 Heating circuit 2 - flow
- ↑ Pellet return air

# Innovative products, which protect the environment and relieve the purse.

Quality made in Austria

- ☑ Biomass heating
- ☑ \_Solar energy systems
- ☑ \_Heat pumps
- ☑ \_Fresh water technology



Pellets



Log wood +  
pellets



Log wood  
chips



wood



Solar energy Fresh  
water technology



Heat pumps

## Österreich

**SOLARFOCUS GmbH, Werkstraße 1, A-4451 St. Ulrich/Steier**

office@solarfocus.at  
www.solarfocus.at

Tel.: 07252 50 002 - 0  
Fax: 07252 50 002 - 10

## Schweiz

**SOLARFOCUS Schweiz GmbH, Gewerbe Mooshof 10**

CH-6022 Grosswangen  
www.solarfocus.ch

Tel.: 041 984 0880  
info@solarfocus.ch

## Deutschland

**SOLARFOCUS GmbH, Marie-Curie-Str. 14-16, D-64653 Lorsch**

info@solarfocus.de  
www.solarfocus.de

Tel.: 06251 13 665 - 00  
Fax: 06251 13 665 - 50