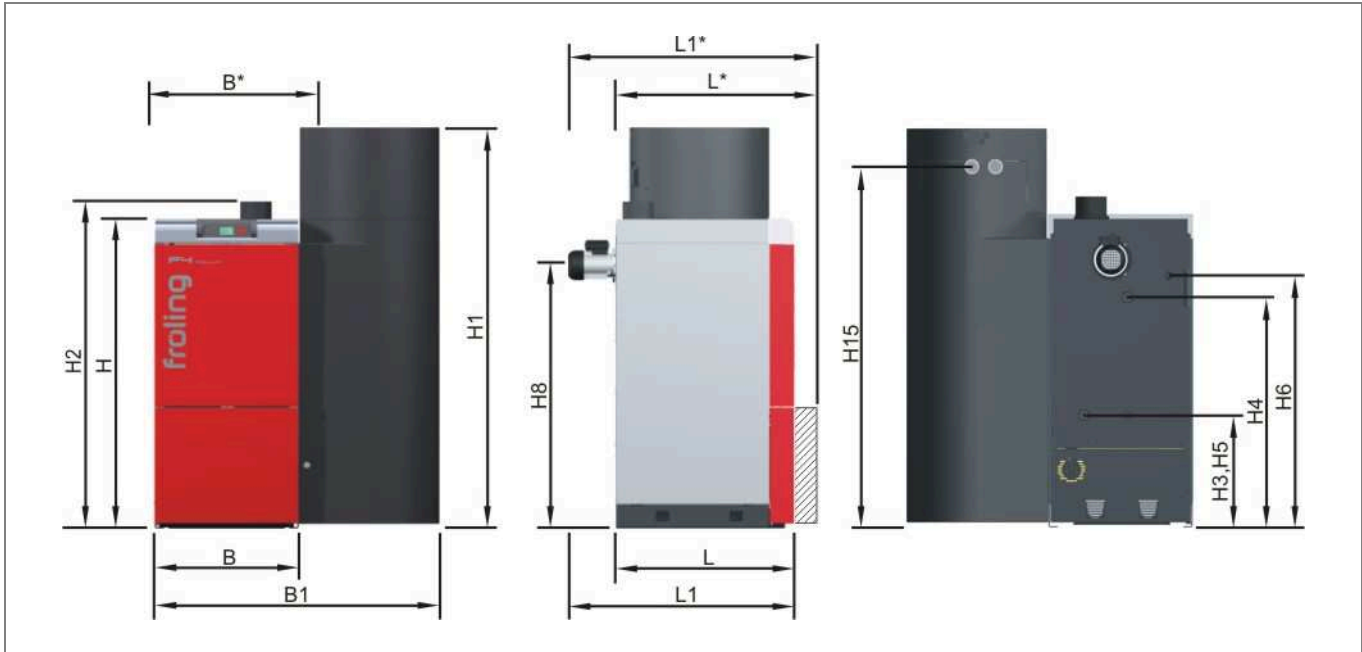


## 2.2 Dimensions



Dimension	Description	Units	8 / 15	20 / 25	32 / 38	48 / 60	80/100
<b>L</b>	Length, boiler	mm	740	740			
<b>L*</b>	Length, boiler				820	900	1000
<b>L1</b>	Total length inc. induced draught fan		940	940			
<b>L1*</b>	Total length inc. induced draught fan				1020	1100	1070
<b>B</b>	Width of boiler	mm	600	770	860	1030	1235
<b>B*</b>	Width, boiler, inc. support for positioning unit <sup>1)</sup>		705	875	965	1275	1480
<b>W1</b>	Total width, inc. suction cyclone		1185	1355	1445	1790	2085
<b>H</b>	Height, boiler <sup>2)</sup>	mm	1280	1280	1430	1585	1710
<b>H1</b>	Total height, inc. suction cyclone		1660	1660	1900	1900	1900
<b>H2</b>	Height, flue pipe connection		1350	1350	1530	1685	1785
<b>H3</b>	Height, flow connection		460	460	460	515	520
<b>H4</b>	Height, return connection		940	955	1085	1240	1360
<b>H5</b>	Height, drainage connection		460	460	460	515	520
<b>H6</b>	Height, ventilation connection		1030	1030	1155	1310	1430
<b>H8</b>	Height, induced draught fan connection		1090	1090	1215	1375	1495
<b>H15</b>	Height, suction system connection		1480	1480	1720	1720	1720
	Flue pipe diameter		mm	130	130	150	150

1) Corresponds to the minimum positioning width after removing the stoker assembly, suction cyclone and positioning unit.

2) Corresponds to the minimum positioning height after removing the stoker assembly, suction cyclone and positioning unit.

## 2.3 Technical specifications

### 2.3.1 P4 Pellet 8/15/20/25

Description	Units	P4 Pellet			
		8	15	20	25
Rated heat output	kW	10,5	14,9	20,0	25,0
Heating efficiency range		3.1-10.5	3.1-14.9	6.0-20.0	7.5-25.0
Mains connection	230V / 50Hz fused 16A				
Output	W	96	123	110	110
Boiler weight	kg	350	350	430	430
Boiler capacity (water)	L	70	70	80	80
Upstream resistance ( $\Delta T=20^{\circ}\text{C}$ )	mbar	4.3	6.1	4.5	2.9
Min. boiler return temperature	Not applicable due to internal return temperature control				
Maximum boiler temperature setting	$^{\circ}\text{C}$	80	80	80	80
Minimum boiler temperature setting		40	40	40	40
Permitted operating pressure	bar	3	3	3	3
Boiler class		3	3	3	3
Permitted fuel	Wood pellets $\varnothing$ 6mm as per ÖNORM M 7135 / DIN 51731				
<b>Test report data</b>					
Testing institute	TÜV Austria <sup>1)</sup>		2) 3)	2) 4)	
Test report no.	06-UWC Wels-EX- 295/2	06-UWC Wels-EX- 295/1			
<b>Test data at rated load</b>					
Carbon monoxide (CO)	[mg/MJ]	24	39	35	30
Nitrogen oxide (NO <sub>x</sub> )	[mg/MJ]	74	74	76	78
Organic Hydrocarbons (OGC)	[mg/MJ]	< 1.0	0.6	0.7	0.9
Dust	[mg/MJ]	14	12	11	11
Boiler efficiency rating	[%]	91.6	90.9	91.9	92.9
<b>Test data at partial load</b>					
Carbon monoxide (CO)	[mg/MJ]	77	77	72	66
Nitrogen oxide (NO <sub>x</sub> )	[mg/MJ]	69	69	71	73
Organic Hydrocarbons (OGC)	[mg/MJ]	1.4	1.4	1.3	1.1
Dust	[mg/MJ]	11	11	11	10
Boiler efficiency rating	[%]	92.0	92.0	93.3	94.5

1) TÜV Austria, Environment and Chemistry Division, Am Thalbach 15, A-4600 Thalheim/Wels

2) In accordance with ÖNORM / DIN EN 303-5, chapter 5.1.3 type test: for a boiler from a range with a consistent structure it is sufficient, if the ratio of rated heat output from the largest to the smallest boiler  $\leq 2 : 1$ , to carry out the tests with the smallest and the largest boilers. The boiler manufacturer must ensure that all boilers, including those that have not been tested in a range, whose values have been determined depending on rated heat output by interpolation, fulfil the requirements of the norm.

3) Values of the type P4 Pellet 20 are interpolated between the test protocol 06-UWC/Wels-EX-295/1 and K44302/2.

4) Values of the type P4 Pellet 25 are interpolated between the test protocol 06-UWC/Wels-EX-295/1 and K44302/2.

### 2.3.2 P4 Pellet 32/38/48/60

		P4 Pellet			
Description	Units	32	38	48	60
Rated heat output	kW	32,0	38,0	48,0	58,5
Heating efficiency range		8.9-32.0	8.9-38.0	14.4-48	17.3-58.5
Mains connection	230V / 50Hz fused 16A				
Output	W	110	110	120	120
Boiler weight	kg	530	530	760	760
Boiler capacity (water)	L	125	125	170	170
Upstream resistance ( $\Delta T=20^{\circ}\text{C}$ )	mbar	1.5	2.1	3.6	5.3
Min. boiler return temperature	Not applicable due to internal return temperature control				
Maximum boiler temperature setting	$^{\circ}\text{C}$	80	80	80	80
Minimum boiler temperature setting		40	40	40	40
Permitted operating pressure	bar	3	3	3	3
Boiler class	3				
Permitted fuel	Wood pellets $\varnothing$ 6mm as per ÖNORM M 7135 / DIN 51731				
<b>Test report data</b>					
Testing institute	TÜV SÜD SZA <sup>1)</sup>		3) 4)		TÜV <sup>2)</sup>
Test report no.	K44302/6	K44302/4	-		08-UWC/ Wels-EX-337
<b>Test data at rated load</b>					
Carbon monoxide (CO)	[mg/MJ]	31	45	25	5
Nitrogen oxide (NOx)	[mg/MJ]	79	77	77	77
Organic Hydrocarbons (OGC)	[mg/MJ]	1.0	1.0	1.5	< 2
Dust	[mg/MJ]	10	9	10	11
Boiler efficiency rating	[%]	93.5	92.6	92.4	92.1
<b>Test data at partial load</b>					
Carbon monoxide (CO)	[mg/MJ]	61	61	36	10
Nitrogen oxide (NOx)	[mg/MJ]	75	75	71	66
Organic Hydrocarbons (OGC)	[mg/MJ]	1.0	1.0	1.5	< 2
Dust	[mg/MJ]	10	10	10	10
Boiler efficiency rating	[%]	95.7	95.7	94.0	92.3

- 1) TÜV SÜD SZA Austria, Technische Prüf-GmbH, accredited initial and boiler inspection body in accordance with BGBl. no. 211/92 Arsenal, Object 207, A-1030 Wien
- 2) TÜV Austria, Environment and Chemistry Division, Am Thalbach 15, A-4600 Thalheim/Wels
- 3) In accordance with ÖNORM / DIN EN 303-5, chapter 5.1.3 type test: for a boiler from a range with a consistent structure it is sufficient, if the ratio of rated heat output from the largest to the smallest boiler  $\leq 2 : 1$ , to carry out the tests with the smallest and the largest boilers. The boiler manufacturer must ensure that all boilers, including those that have not been tested in a range, whose values have been determined depending on rated heat output by interpolation, fulfil the requirements of the norm.
- 4) Values of the model, P4 Pellet 48, are interpolated between the test protocol K44302/4 and 08-UWC/Wels-EX-337.

## 2.3.3 P4 Pellet 80/100

Description	Units	P4 Pellet	
		80	100
Rated heat output	kW	80.0	100.0
Heating efficiency range		24.0-80.0	30-100.0
Mains connection		230V / 50Hz fused 16A	
Output	W	120	120
Boiler weight	kg	1090	1100
Boiler capacity (water)	L	280	280
Min. boiler return temperature		Not applicable due to internal return temperature control	
Maximum boiler temperature setting	°C	80	80
Minimum boiler temperature setting		40	40
Permitted operating pressure	bar	3	3
Boiler class		3	3
Permitted fuel		Wood pellets Ø 6mm as per ÖNORM M 7135 / DIN 51731	