

Biomass boiler UTSR visio

Moving grate boilers up to 8 MW

Boiler design

3-pass exhaust gas heat exchanger
Warm water 6, 8, 10 bar / 110 °C

Grate cooling

Air / water

Power control

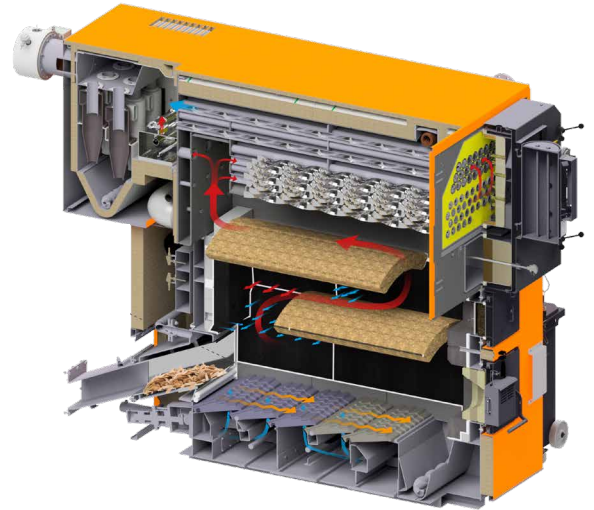
Modulating 20 – 100 %

Fuel water content

M 10 – 60

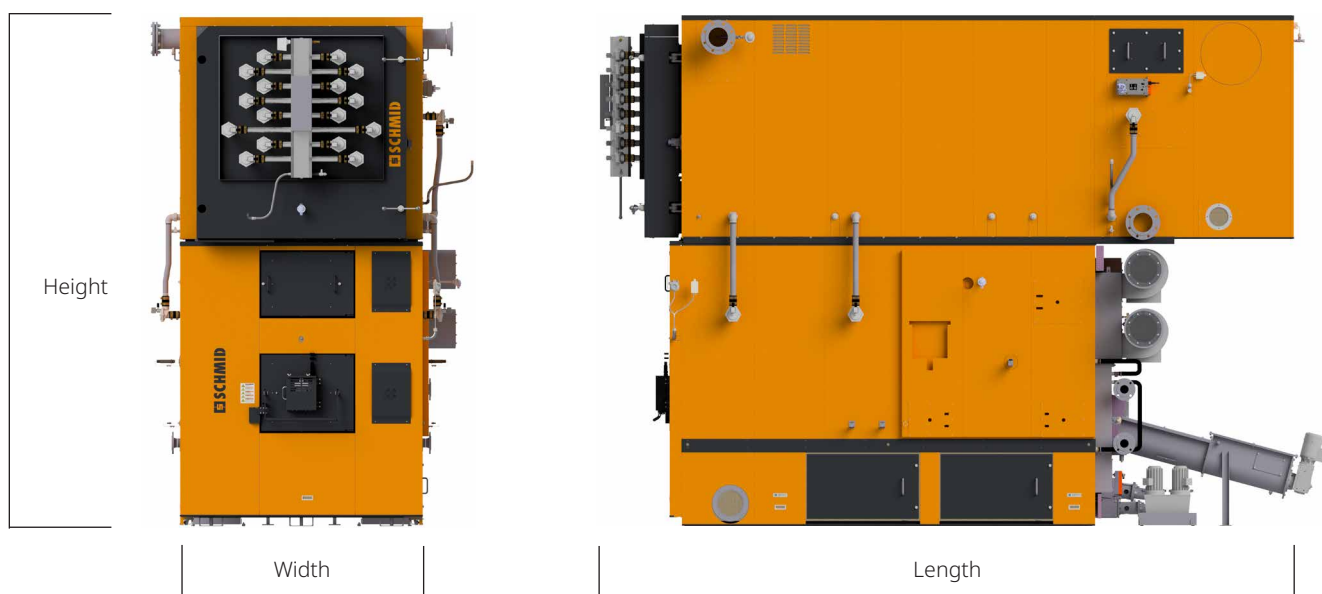
Nominal capacity up to fuel water content

M 55



Boiler type		300	360	450	500	550	700	900	1200	1600	2000
Dimensions and weights (6 bar)											
Length	mm	3597	3597	4247	4247	4247	4867	4867	5187	5787	6427
Width	mm	1250	1250	1440	1440	1440	1800	1800	2000	2000	2320
Height*	mm	2700	2700	2950	2950	2950	3600	3600	4150	4200	5070
Weight including water*	kg	7100	7100	11100	11100	11100	17200	17200	23700	26900	39700
Technical data (6 bar)											
Max. nominal capacity modulation range	kW	60 – 300	72 – 360	90 – 450	100 – 500	110 – 550	140 – 700	180 – 900	240 – 1200	320 – 1600	400 – 2000
FWL range (M10 – M55) @ 100% approx.	kW	330 – 350	400 – 420	500 – 520	550 – 580	610 – 640	770 – 810	990 – 1050	1320 – 1390	1760 – 1860	2200 – 2320
Max. firing technology efficiency	%	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	91.4	91.4
Fuel consumption approx. M35	Srm/h	0.4	0.5	0.6	0.7	0.8	1.0	1.3	1.7	2.2	2.8
Ash production approx. 2% ash in fuel	kg/h	1.5	1.8	2.0	2.5	2.6	3.5	4.5	5.5	8	10
Kvs value heat exchanger	m ³ /h	72	72	110	110	110	180	180	240	320	400
Diameter flue gas pipe (ø)	mm	200	250	300	300	300	350	350	400	450	500
Diameter chimney (ø)	mm	250	250	315	315	315	355	400	450	550	600
Water content	l	885	885	1315	1315	1315	2355	2355	3426	3815	5590

* Height and weight from 700 kW to 2400 kW for the LowNOx variant; from 700 kW also available as a DeNOx version with greater height for SNCR.



For process & comfort heating

Boiler type		2400	3200	3800	4200/4600	5000	5500	6000	6500	7000	8000
Dimensions and weights (6 bar)											
Length	mm	7027	8374	8374	8384	8684	9352	9352	9352	9295	9795
Width	mm	2320	2800	2800	2800	2800	2800	2800	3260	3260	3260
Height*	mm	5070*	7450	7450	7955	7955	8555	8555	8880	9330	9330
Weight including water*	kg	45000	84700	86400	102200	104300	127300	127300	143600	163800	168100
Technical data (6 bar)											
Max. nominal capacity modulation range	kW	480–2400	640–3200	760–3600	840–4600	1000–5000	1100–5500	1200–6000	1300–6500	1400–7000	1600–8000
FWL range (M10–M55) @ 100% approx.	kW	2640–2780	3500–680	4185–4410	4570–5335	5500–5800	6000–6260	6055–7540	6055–7540	7155–7540	8810–9280
Max. firing technology efficiency	%	91.4	91.4	91.4	90.8	90.8	90.8	90.8	90.8	90.8	90.8
Fuel consumption approx. M35	Srm/h	3.4	4.5	4.5	5.9–6.4	7.0	7.7	8.4	9.1	9.8	11.2
Ash production approx. 2% ash in fuel	kg/h	12	16	18	20–22	24	26	29	31	33	38
Kvs value heat exchanger	m ³ /h	480	780	780	810	940	1020	1060	1100	1300	1400
Diameter flue gas pipe (ø)	mm	550	650	650	700	800	800	800	900	900	1000
Diameter chimney (ø)	mm	650	750	750	800/850	850	900	1000	1000	1000	1120
Water content	l	6480	16045	17005	17635	18730	24750	24750	24750	34080	36010

* Height and weight from 700 kW to 2400 kW for the LowNOx variant; from 700 kW also available as a DeNOx version with greater height for SNCR.