

Datasheet

Order no. and prices on request

To select the boiler, please use the separate technical guide.



VITOMAX 200-HS Type M75A

Oil/gas fired high pressure steam boiler

Compliant with the requirements of the Pressure Equipment Directive 97/23/EC and the TRD set of rules, in conjunction with the [German] trade association agreements.

Three-pass boiler

With and without economiser

Permissible operating pressure 6 to 25 bar

Specification without integral economiser

Boiler size		1	2	3	4	5	6	7	8	9	A
Combustion output*1											
- for natural gas	MW	3.8	4.5	5.3	6.4	7.5	9.0	10.5	12.7	15.7	18.2
- for fuel oil EL	MW	3.8	4.5	5.3	6.4	7.5	9.0	10.5	12.3	14.0	14.0
Max. steam output with gas combustion											
5 bar working pressure without turbulator*2	t/h	5.09	6.06	7.17	8.69	10.19	12.33	14.34	17.42	21.79	25.21
Max. working pressure without turbulator*2	t/h	4.86	5.78	6.84	8.28	9.71	11.78	13.70	16.70	20.88	24.26
5 bar working pressure with turbulator	t/h	5.28	6.25	7.39	8.93	10.45	12.51	14.60	17.66	–	–
Max. working pressure with turbulator	t/h	5.03	5.95	7.03	8.50	9.94	11.94	13.94	16.91	20.87	24.26
Max. flue gas temperature with gas combustion											
5 bar working pressure without turbulator	°C	296	288	280	275	274	259	265	258	236	239
Max. working pressure without turbulator	°C	345	337	330	326	324	307	313	301	282	279
5 bar working pressure with turbulator	°C	229	231	226	224	228	233	233	233	–	–
Max. working pressure with turbulator	°C	284	285	280	279	283	283	283	278	–	–
Max. steam output with oil combustion											
5 bar working pressure without turbulator*2	t/h	5.15	6.13	7.25	8.78	10.30	12.45	14.45	17.03	19.71	19.76
Max. working pressure without turbulator*2	t/h	4.92	5.85	6.92	8.38	9.83	11.91	13.83	16.34	18.90	19.04
5 bar working pressure with turbulator	t/h	5.32	6.30	7.45	9.00	10.52	12.61	14.68	17.22	–	–
Max. working pressure with turbulator	t/h	5.08	6.01	7.10	8.58	10.03	12.06	14.04	16.52	–	–
CE designation		in accordance with Pressure Equipment Directive 97/23/EC									
Shipping dimensions		incl. packaging									
Total length	m	5.38	5.61	5.85	6.04	6.28	6.72	7.04	7.46	8.30	8.99
Total width	m	2.55	2.73	2.85	3.00	3.05	3.20	3.40	3.60	3.85	3.95
Total height	m	2.90	3.08	3.20	3.35	3.40	3.55	3.75	3.95	4.26	4.36
Total weight*3		Boiler with thermal insulation									
for permissible operating pressure	6 bar t	9.1	10.8	12.8	14.4	16.2	19.0	22.8	28.9	35.0	40.6
	8 bar t	9.9	11.8	13.9	15.8	17.9	20.4	24.9	29.2	37.1	41.7
	10 bar t	10.7	13.1	15.0	17.2	19.2	22.4	26.1	31.8	41.8	46.6
	13 bar t	11.9	14.5	17.2	18.6	20.3	24.1	28.8	33.7	43.0	49.2
	16 bar t	13.3	14.5	17.3	20.0	22.0	26.6	32.1	37.5	48.4	54.1
	18 bar t	12.7	15.9	18.1	21.4	23.8	28.6	32.3	40.0	51.9	58.3
	20 bar t	13.4	16.6	19.9	23.0	24.1	28.6	34.2	41.8	–	–
	22 bar t	14.1	18.2	21.0	23.1	25.3	30.3	35.9	–	–	–
	25 bar t	15.3	18.5	21.8	24.5	26.9	32.3	–	–	–	–
Boiler water content											
overall	m ³	11.2	13.4	15.0	17.6	18.3	21.9	25.8	30.9	39.0	44.8
average operating range*4	m ³	9.82	11.46	12.82	15.07	15.66	18.49	21.78	26.15	32.38	36.51
Steam chamber volume*4		m ³									
		1.38	1.94	2.18	2.53	2.64	3.41	4.02	4.75	6.62	8.29
Steam level surface area*4		m ²									
		6.58	7.78	8.44	9.28	9.72	11.29	12.53	14.19	17.42	19.95
Boiler connections		Steam connector									
for permissible operating pressure	6 bar PN 16 DN	200	200	200	250	250	250	300	300	350	400
	8 bar PN 16 DN	150	200	200	200	200	250	250	300	300	350
	10 bar PN 16 DN	150	150	150	200	200	200	250	250	300	300
	13 bar PN 40 DN	125	150	150	150	–	–	–	–	–	–
	13 bar PN 25 DN	–	–	–	–	200	200	200	250	250	250
	16 bar PN 40 DN	125	125	150	150	150	–	–	–	–	–
	16 bar PN 25 DN	–	–	–	–	–	200	200	200	250	250
	18 bar PN 40 DN	125	125	125	150	150	–	–	–	–	–
	18 bar PN 25 DN	–	–	–	–	–	200	200	200	200	250
	20 bar PN 40 DN	125	125	125	150	150	200	200	200	–	–
	22 bar PN 40 DN	100	125	125	125	150	150	150	–	–	–
	25 bar PN 40 DN	100	100	125	125	125	150	–	–	–	–
		Safety valve connector									
for permissible operating pressure	6 bar PN 40 DN	65	65	65	80	80	100	100	100	125	150
	8 bar PN 40 DN	50	65	65	65	80	80	100	100	100	125
	10 bar PN 40 DN	50	50	65	65	65	80	80	80	100	100
	13 bar PN 40 DN	40	50	50	65	65	65	65	80	80	100
	16 bar PN 40 DN	40	40	50	50	50	65	65	65	80	80
	18 bar PN 40 DN	40	40	40	50	50	65	65	65	80	80
	20 bar PN 40 DN	32	40	40	50	50	50	65	65	–	–
	22 bar PN 40 DN	32	40	40	40	50	50	65	–	–	–
	25 bar PN 40 DN	32	32	40	40	50	50	–	–	–	–

*1 The maximum combustion output varies subject to the required emission values and the fuel used. Check with the burner manufacturer.

*2 If using a downstream or on-site economiser

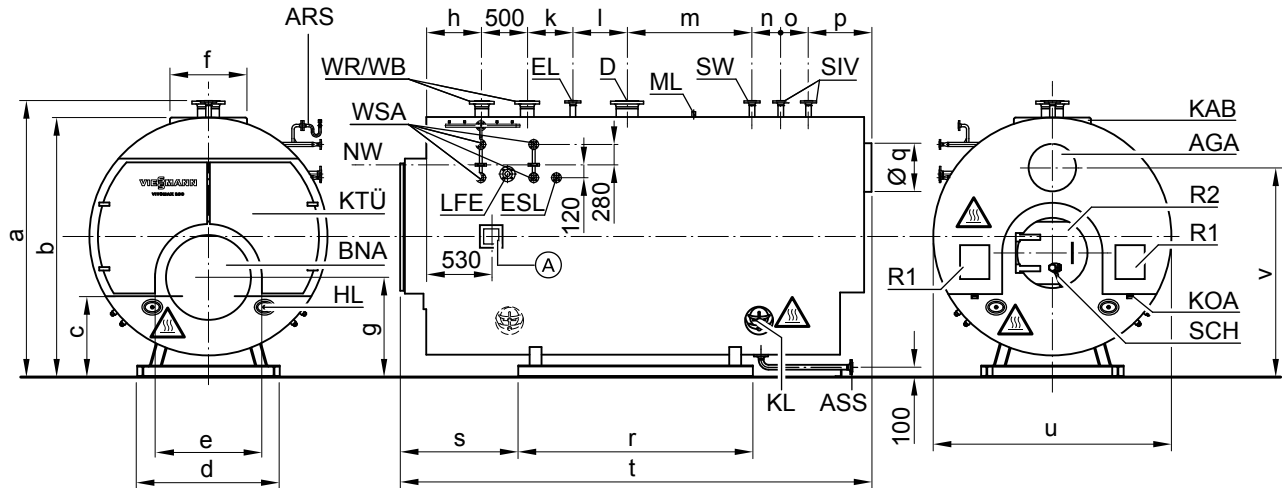
*3 Because of production methods, the weight of the boiler can vary by up to 10%.

*4 Average water level between pump ON and pump OFF

Specification without integral economiser (cont.)

Boiler size		1	2	3	4	5	6	7	8	9	A
Connector for feedwater pumps	PN 40 DN	40	40	40	50	50	50	65	65	65	80
Flue gas mass flow rate											
- for natural gas	t/h	1.5225 x combustion output in MW									
- for fuel oil EL	t/h	1.5 x combustion output in MW									
Flue gas volume	m ³	4.9	6.1	7.3	8.5	9.6	11.8	14.7	18.4	24.7	28.7

Dimensions



Caution - hot surface!

AGA	Flue outlet	LFE	Connector for conductivity electrode with dummy flange
ARS	Fitting assembly	ML	Manhole
ASS	Blow-down valve connector	NW	Lowest water level
BNA	Burner connection	R1	Cleaning port, flue gas collector
D	Steam connector	R2	Cleaning port, combustion chamber
EL	Air vent connector	SIV	Connector for safety valve with 1x dummy flange
ESL	T.D.S connector with dummy flange	SCH	Inspection aperture
HL	Hand hole	SW	Feedwater connector
KAB	Boiler cover	WR/WB	Connector for water level controller/limiter
KL	Head hole	WSA	Connector for water level indicator with 1x dummy flange
KOA	Condensate drain R 2"	(A)	Type plate
KTÜ	Boiler door		

Dimensions*⁵

Boiler size		1	2	3	4	5	6	7	8	9	A
a	mm	2880	3055	3180	3330	3380	3530	3730	3930	4240	4340
b	mm	2725	2900	3035	3175	3225	3375	3575	3775	4085	4185
c	mm	755	813	825	840	830	835	850	865	945	965
d	mm	1800	1950	2000	2100	2200	2300	2400	2500	2870	2920
e	mm	905	1030	1105	1155	1205	1275	1380	1530	1680	1680
f	mm	800	800	800	900	900	900	1000	1000	1100	1100
g	mm	1003	1070	1108	1160	1178	1240	1265	1342	1455	1455
h	mm	530	530	530	530	530	530	530	530	530	530
k	mm	575	575	650	650	675	825	875	975	1300	1400
l	mm	475	525	550	565	725	925	875	1075	800	1100
m	mm	1530	1660	1685	1860	1825	1860	2025	2040	2500	2600
n	mm	300	325	325	325	325	350	350	400	450	500
o	mm	300	325	325	325	325	350	350	400	450	500
p	mm	660	660	760	760	810	810	910	960	1110	1160
q* ⁶	mm	500	550	600	650	700	750	850	900	1000	1100
r	mm	2550	2790	2875	2965	3165	3380	3485	3700	4290	4590
s	mm	1230	1225	1270	1320	1335	1445	1530	1630	1720	1910
t	mm	5105	5335	5560	5750	5990	6425	6720	7185	7975	8665
u	mm	2500	2675	2800	2950	3000	3150	3350	3550	3800	3900
v	mm	2240	2390	2490	2615	2640	2765	2915	3090	3350	3400

*⁵ Nominal dimensions, subject to modification.

*⁶ Internal diameter; for external diameter +10 mm

Specification with integral economiser

Boiler size		1	2	3	4	5	6	7	8	9	A	
Combustion output^{*7}												
- for natural gas	MW	3.8	4.5	5.3	6.4	7.5	9.0	10.5	12.7	15.7	18.2	
- for fuel oil EL	MW	3.8	4.5	5.3	6.4	7.5	9.0	10.5	12.3	14.0	14.0	
Max. steam output with gas combustion												
5 bar working pressure with ECO 100	t/h	5.41	6.41	7.55	9.11	10.68	12.81	14.95	18.08	22.35	25.90	
Max. working pressure with ECO 100	t/h	5.31	6.28	7.40	8.94	10.48	12.57	14.67	17.76	21.95	25.47	
5 bar working pressure with ECO 200	t/h	5.56	6.58	7.75	9.36	10.97	13.16	15.35	18.57	22.95	26.61	
Max. working pressure with ECO 200	t/h	5.45	6.45	7.60	9.18	10.76	12.92	15.07	18.24	22.54	26.17	
Max. flue gas temperature with gas combustion												
5 bar working pressure with ECO 100	°C	171	173	173	175	172	169	174	169	162	166	
Max. working pressure with ECO 100	°C	188	191	192	195	191	189	195	187	182	184	
5 bar working pressure with ECO 200	°C	125	127	128	130	128	128	124	125	129	124	
Max. working pressure with ECO 200	°C	130	133	135	138	135	136	130	131	138	131	
Max. steam output with oil combustion												
5 bar working pressure with ECO 100	t/h	5.41	6.41	7.55	9.11	10.68	12.81	14.90	17.46	20.03	20.03	
Max. working pressure with ECO 100	t/h	5.31	6.28	7.40	8.94	10.47	12.57	14.63	17.15	19.67	19.70	
5 bar working pressure with ECO 200	t/h	5.56	6.58	7.75	9.36	10.97	13.16	15.31	17.94	20.58	20.58	
Max. working pressure with ECO 200	t/h	5.45	6.45	7.60	9.18	10.76	12.92	15.02	17.62	20.21	20.24	
CE designation		in accordance with Pressure Equipment Directive 97/23/EC										
Shipping dimensions^{*8}		incl. packaging										
Total length with ECO 100, 200	m	5.77	6.00	6.19	6.38	6.72	7.16	7.44	8.00	8.74	9.38	
Total width with ECO 100, 200	m	2.59	2.77	2.88	3.01	3.05	3.20	3.40	3.60	3.85	3.95	
Total height with ECO 100	m	2.90	3.08	3.20	3.35	3.40	3.55	3.75	3.95	4.26	4.36	
Total height with ECO 200	m	3.02	3.14	3.25	3.38	3.43	3.58	3.89	4.03	4.25	4.38	
Total weight^{*9}		Boiler with thermal insulation										
for permissible operating pressure	6 bar t	9.9	11.7	13.8	15.4	17.4	20.2	24.1	30.5	36.8	42.5	
- with ECO 100	8 bar t	10.7	12.7	14.9	16.8	19.1	21.6	26.2	30.8	38.9	43.6	
	10 bar t	11.5	14.0	16.0	18.2	20.4	23.6	27.4	33.4	43.6	48.5	
	13 bar t	12.7	15.4	18.2	19.6	21.5	25.3	30.1	35.3	44.8	51.1	
	16 bar t	14.1	15.4	18.3	21.0	23.2	27.8	33.4	39.1	50.2	56.0	
	18 bar t	13.5	16.8	19.1	22.4	25.0	29.8	33.6	41.6	53.7	60.2	
	20 bar t	14.2	17.5	20.9	24.0	25.3	29.8	35.5	43.4	-	-	
	22 bar t	14.9	19.1	22.0	24.1	26.5	31.5	37.2	-	-	-	
	25 bar t	16.1	19.4	22.8	25.5	28.1	33.5	-	-	-	-	
for permissible operating pressure	6 bar t	10.4	12.2	14.3	16.0	18.0	21.0	25.3	31.7	37.8	44.1	
- with ECO 200	8 bar t	11.2	13.2	15.4	17.4	19.7	22.4	27.4	32.0	39.9	45.2	
	10 bar t	12.0	14.5	16.5	18.8	21.0	24.4	28.6	34.6	44.6	50.1	
	13 bar t	13.2	15.9	18.7	20.2	22.1	26.1	31.3	36.5	45.8	52.7	
	16 bar t	14.6	15.9	18.8	21.6	23.8	28.6	34.6	40.3	51.2	57.6	
	18 bar t	14.0	17.3	19.6	23.0	25.6	30.6	34.8	42.8	54.7	61.8	
	20 bar t	14.7	18.0	21.4	24.6	25.9	30.6	36.7	44.6	-	-	
	22 bar t	15.4	19.6	22.5	24.7	27.1	32.3	38.4	-	-	-	
	25 bar t	16.6	19.9	23.3	26.1	28.7	34.3	-	-	-	-	
Boiler water content												
total with ECO 100	m ³	11.3	13.5	15.1	17.7	18.4	22.0	25.9	31.0	39.2	45.0	
total with ECO 200	m ³	11.3	13.5	15.1	17.7	18.5	22.1	26.0	31.2	39.3	45.2	
average operating range ^{*10} with ECO 100	m ³	9.89	11.53	12.89	15.15	15.75	18.59	21.89	23.29	32.53	36.70	
average operating range ^{*10} with ECO 200	m ³	9.94	11.59	12.96	15.22	15.84	18.68	22.03	26.44	32.72	36.87	
Steam chamber volume^{*10}		m ³	1.38	1.94	2.18	2.53	2.64	3.41	4.02	4.75	6.62	8.29
Steam level surface area^{*10}		m ²	6.58	7.78	8.44	9.28	9.72	11.29	12.53	14.19	17.42	19.95
Boiler connections		Steam connector										
for permissible operating pressure	6 bar PN 16 DN	200	200	200	250	250	250	300	300	350	400	
	8 bar PN 16 DN	150	200	200	200	200	250	250	300	300	350	
	10 bar PN 16 DN	150	150	150	200	200	200	250	250	300	300	
	13 bar PN 40 DN	125	150	150	150	-	-	-	-	-	-	
	13 bar PN 25 DN	-	-	-	-	200	200	200	250	250	250	
	16 bar PN 40 DN	125	125	150	150	150	-	-	-	-	-	
	16 bar PN 25 DN	-	-	-	-	-	200	200	200	250	250	
	18 bar PN 40 DN	125	125	125	150	150	-	-	-	-	-	
	18 bar PN 25 DN	-	-	-	-	-	200	200	200	200	250	
	20 bar PN 40 DN	125	125	125	150	150	200	200	200	-	-	

^{*7} The maximum combustion output varies subject to the required emission values and the fuel used. Check with the burner manufacturer.

^{*8} Flue gas hood and feedwater line are delivered separately.

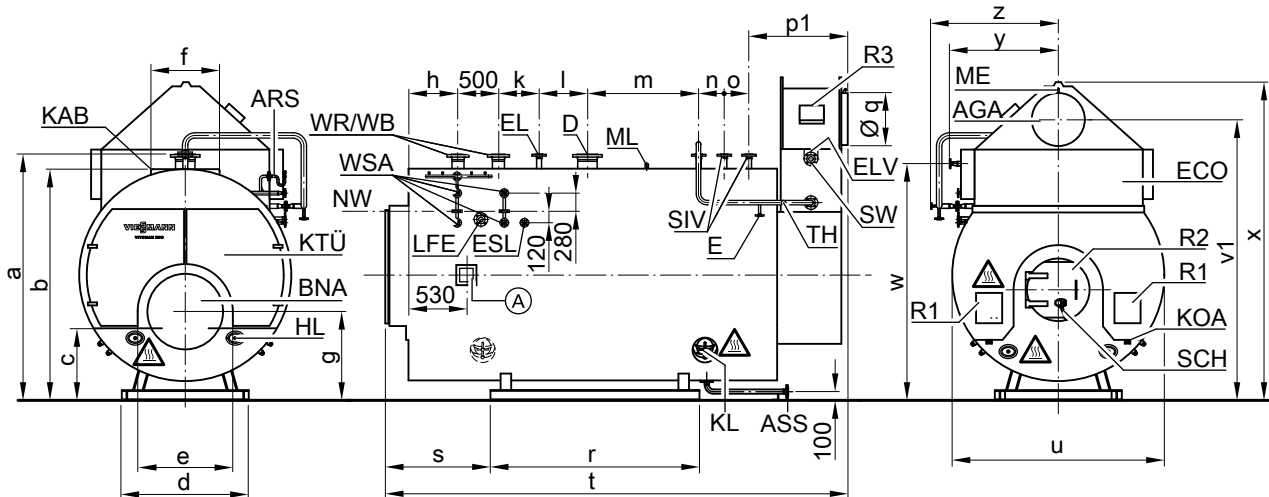
^{*9} Because of production methods, the weight of the boiler can vary by up to 10%.

^{*10} Average water level between pump ON and pump OFF

Specification with integral economiser (cont.)

Boiler size		1	2	3	4	5	6	7	8	9	A
	22 bar PN 40 DN	100	125	125	125	150	150	150	-	-	-
	25 bar PN 40 DN	100	100	125	125	125	150	-	-	-	-
		Safety valve connector									
for permissible operating pressure	6 bar PN 40 DN	65	65	65	80	80	100	100	100	125	150
	8 bar PN 40 DN	50	65	65	65	80	80	100	100	100	125
	10 bar PN 40 DN	50	50	65	65	65	80	80	80	100	100
	13 bar PN 40 DN	40	50	50	65	65	65	65	80	80	100
	16 bar PN 40 DN	40	40	50	50	50	65	65	65	80	80
	18 bar PN 40 DN	40	40	40	50	50	65	65	65	80	80
	20 bar PN 40 DN	32	40	40	50	50	50	65	65	-	-
	22 bar PN 40 DN	32	40	40	40	50	50	65	-	-	-
	25 bar PN 40 DN	32	32	40	40	50	50	-	-	-	-
Connector for feedwater pumps	PN 40 DN	40	40	40	50	50	50	65	65	65	80
Flue gas mass flow rate		1.5225 x combustion output in MW									
- for natural gas	t/h	1.5 x combustion output in MW									
- for fuel oil EL	t/h	1.5 x combustion output in MW									
Flue gas volume											
- with ECO 100	m ³	6.4	8.0	9.3	10.7	12.4	15.0	18.4	23.4	30.6	35.1
- with ECO 200	m ³	6.5	8.2	9.5	10.9	12.5	15.0	18.6	23.8	31.0	35.5

Dimensions



Caution - hot surface!

AGA	Flue outlet	LFE	Connector for conductivity electrode with dummy flange
ARS	Fitting assembly	ME	Test port R 1/2"
ASS	Blow-down valve connector	ML	Manhole
BNA	Burner connection	NW	Lowest water level
D	Steam connector	R1	Cleaning port, flue gas collector
E	Drain connector	R2	Cleaning port, combustion chamber
ECO	Economiser	R3	Cleaning port, ECO
EL	Air vent connector	SIV	Connector for safety valve with 1x dummy flange
ELV	R 1/2" coupling for air vent valve	SCH	Inspection aperture
ESL	T.D.S connector with dummy flange	SW	Feedwater connector
HL	Hand hole	TH	Thermometer
KAB	Boiler cover	WR/WB	Connector for water level controller/limiter
KL	Head hole	WSA	Connector for water level indicator with 1x dummy flange
KOA	Condensate drain R 2"	Ⓐ	Type plate
KTÜ	Boiler door		

Dimensions*11

Boiler size		1	2	3	4	5	6	7	8	9	A
a	mm	2880	3055	3180	3330	3380	3530	3730	3930	4240	4340
b	mm	2725	2900	3035	3175	3225	3375	3575	3775	4085	4185
c	mm	755	813	825	840	830	835	850	865	945	965

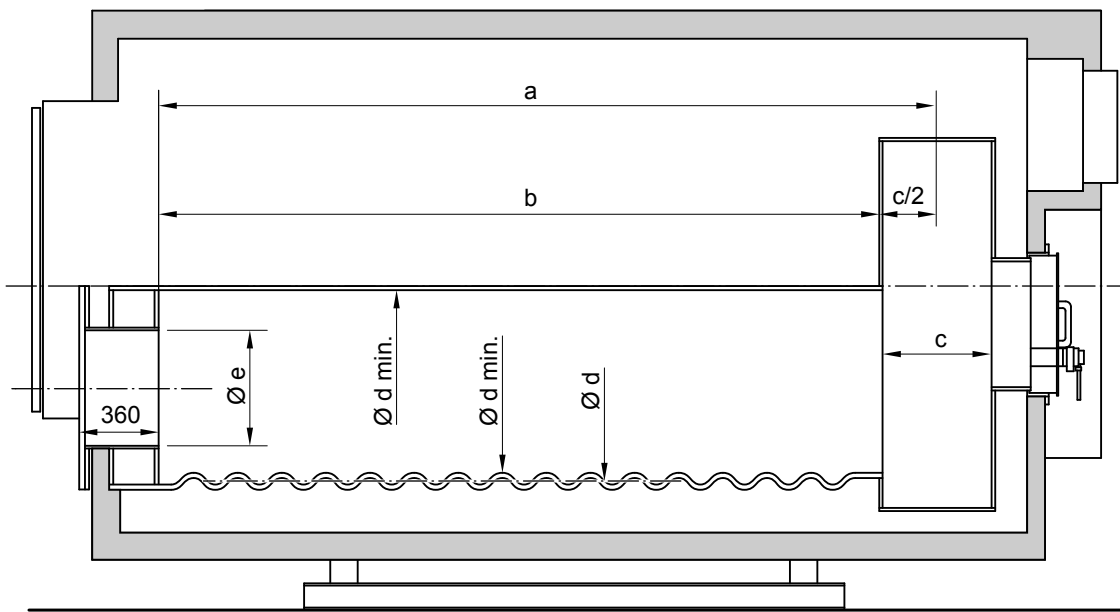
*11 Nominal dimensions, subject to modification.

Specification with integral economiser (cont.)

Boiler size		1	2	3	4	5	6	7	8	9	A
d	mm	1800	1950	2000	2100	2200	2300	2400	2500	2870	2920
e	mm	905	1030	1105	1155	1205	1275	1380	1530	1680	1680
f	mm	800	800	800	900	900	900	1000	1000	1100	1100
g	mm	1003	1070	1108	1160	1178	1240	1265	1342	1455	1455
h	mm	530	530	530	530	530	530	530	530	530	530
k	mm	575	575	650	650	675	825	875	975	1300	1400
l	mm	475	525	550	565	725	925	875	1075	800	1100
m	mm	1530	1660	1685	1860	1825	1860	2025	2040	2500	2600
n	mm	300	325	325	325	325	350	350	400	450	500
o	mm	300	325	325	325	325	350	350	400	450	500
p1 (ECO 100/200)	mm	1120	1120	1170	1170	1320	1330	1380	1530	1630	1630
q*12	mm	500	550	600	650	700	750	850	900	1000	1100
r	mm	2550	2790	2875	2965	3165	3380	3485	3700	4290	4590
s	mm	1230	1225	1270	1320	1335	1445	1530	1630	1720	1910
t (ECO 100/200)	mm	5565	5795	5970	6160	6500	6945	7190	7755	7495	9435
u (ECO 100/200)	mm	2530	2712	2822	2955	3000	3150	3350	3550	3800	3900
v1 (ECO 100)	mm	3038	3240	3390	3565	3640	3815	4065	4290	4650	4800
v1 (ECO 200)	mm	3293	3440	3570	3733	3795	3978	4337	4500	4725	4955
w (ECO 100)	mm	2565	2685	2790	2920	2965	3115	3305	3487	3730	3775
w (ECO 200)	mm	2890	3010	3115	3245	3290	3440	3757	3877	4052	4227
x (ECO 100)	mm	3458	3683	3858	4058	4158	4358	4658	5118	5318	5518
x (ECO 200)	mm	3711	3883	4038	4226	4313	4521	4930	5118	5393	5673
y (ECO 100/200)	mm	1285	1380	1428	1480	1495	1530	1612	1682	1797	1867
z (ECO 100/200)	mm	1430	1527	1575	1633	1648	1683	1837	1907	2022	2039

*12 Internal diameter; for external diameter +10 mm

Specification for burner selection

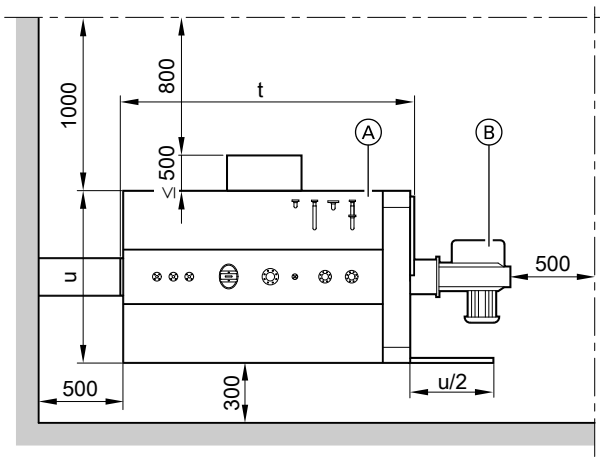


Boiler size			1	2	3	4	5	6	7	8	9	A
			Max. permissible combustion output									
Natural gas	MW		3.8	4.5	5.3	6.4	7.5	9.0	10.5	12.7	15.7	18.2
Max. flue gas pressure drop without turbulators	hPa		8.1	8.8	8.8	9.7	10.9	12.4	11.3	13.7	14.7	13.6
Max. flue gas pressure drop with turbulators	hPa		17.2	16.2	15.0	16.6	17.8	16.7	16.6	18.3	–	–
Max. flue gas pressure drop with ECO 100	hPa		9.1	9.8	10.3	11.2	12.4	14.4	13.3	15.7	16.7	15.8
Max. flue gas pressure drop with ECO 200	hPa		9.6	10.6	10.8	12.0	13.1	15.2	14.8	16.9	18.2	18.1
Fuel oil EL	MW		3.8	4.5	5.3	6.4	7.5	9.0	10.5	12.3	14.0	14.0
Output portion	%		100	100	100	100	100	100	99.7	96.6	89.2	76.9
Max. flue gas pressure drop without turbulators	hPa		7.4	8.0	8.0	8.8	9.9	11.3	10.2	11.5	10.2	6.8
Max. flue gas pressure drop with turbulators	hPa		15.9	14.9	13.8	15.2	16.3	15.2	15.1	15.5	–	–
Max. flue gas pressure drop with ECO 100	hPa		8.4	9.0	9.5	10.3	11.3	13.2	12.1	13.3	11.6	8.0
Max. flue gas pressure drop with ECO 200	hPa		8.8	9.7	9.9	10.9	12.0	13.9	13.5	14.3	12.8	9.2
			Combustion chamber dimensions									
Length												
– Approved for flames	Dimension a	mm	3793	4023	4198	4388	4538	4973	5188	5603	6313	7050
– Flame tube	Dimension b	mm	3543	3773	3948	4138	4288	4723	4938	5353	6063	6800
– Reversing chamber	Dimension c	mm	500									
Diameter												
– Corrugated pipe, internal	Dimension d _{min.}	∅ mm	825	925	1000	1050	1100	1155	1275	1405	1555	1555
– Corrugated pipe, average	Dimension d	∅ mm	875	1000	1075	1125	1175	1250	1350	1500	1650	1650
– Smooth pipe, internal	Dimension d _{min.}	∅ mm	835	960	1035	1085	1135	1210	1310	1460	1610	1610
			Burner connection dimensions									
Minimum flame tube length	mm		360									
Max. burner head diameter	Dimension e	∅ mm	522	597	718	718	718	768	768	918	1018	1018
			Combustion chamber volume									
Flame tube (corrugated pipe)	m ³		2.13	2.96	3.58	4.11	4.65	5.80	7.07	9.46	12.96	14.25
Flame tube and reversing chamber depth	m ³		2.30	3.20	3.90	4.50	5.00	6.20	7.60	10.10	13.70	15.20

Note

Details regarding **diameter** refer to the maximum depth of corrugations and the smallest internal diameter. The type of flame tube depends on the pressure stages employed. Product-dependent tolerances are not taken into consideration.

Recommended minimum clearances to TRD 403- 3.2



- (A) Boiler
(B) Burner

t and u Please see the dimensions tables of the corresponding boilers for these values.

Standard delivery

Boiler with

- Thermal insulation
- Fitting assembly
- Dummy flange for connectors, which are not required in every case
- Sight glass
- Burner plate, delivered separately

For boilers with an economiser, the following are additionally delivered to site:

- Feedwater line with thermal insulation
- Flue gas hood with thermal insulation

Accessories (option)

- Flame tube insulation, subject to burner
- Turbulators
- Packaging (installation protection and transport wrapping)

Printed on environmentally friendly,
chlorine-free bleached paper



Subject to technical modifications.

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