



VERSOCALD - HOT WATER BOILERS



PROFESSIONAL

VERSOCALD
HOT WATER BOILERS (SKD Series)
SKD 64 - 291



PRESSURIZED STEEL BOILER WITH REVERSED FLAME

OUTPUT RANGE from 64 to 291 kW

WORKING TEMPERATURE minimum return temperature higher than 50°C

OPERATION WITH gas or oil fired pressure jet burners

MODELS	64	76	93	105	116
	140	163	186	233	291

EFFICIENCY CLASS
 according to Dir. 92/42/EC



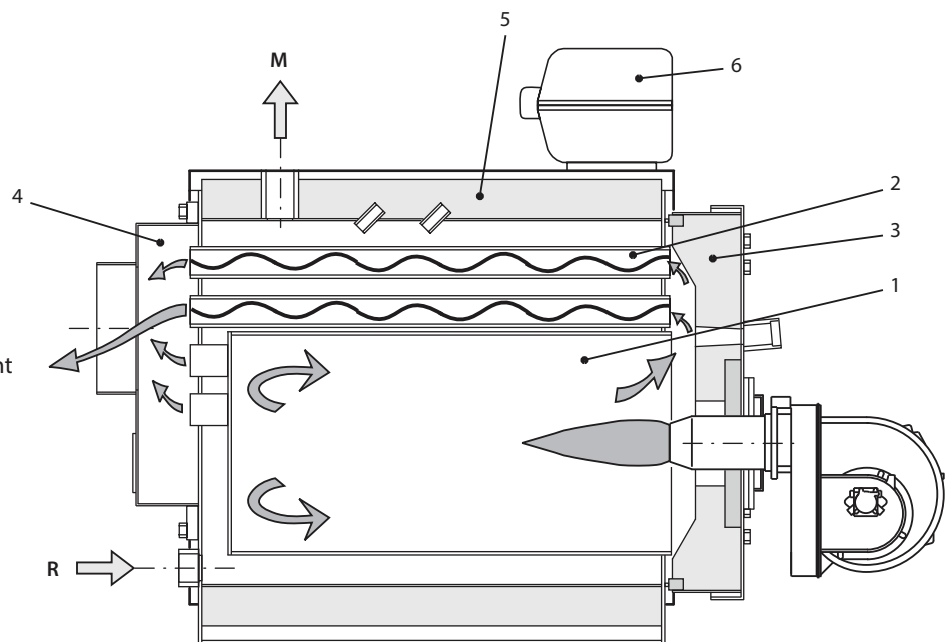
Decentralization of tube bundle for high resistance to the condensate

PRESSURIZED BOILERS

SKD 64 - 291

MAIN COMPONENTS

1. Furnace
2. Smoke pipes with smoke diverters
3. Door with flame control warning light
4. Smoke chamber
5. Body insulation
6. Panel board



TECHNICAL DATA

SKD		64	76	93	105	116	140	163	186	233	291
NOMINAL OUTPUT	<i>kW</i>	64	76	93	105	116	140	163	186	233	291
NOMINAL INPUT	<i>kW</i>	71	84	102	115	128	155	180	206	258	322
WATER EFFICIENCY AT NOMINAL LOAD	%	90,1	90,4	91,1	91,3	90,6	90,3	90,5	90,3	90,3	90,4
BOILER CAPACITY	<i>l</i>	86	86	86	126	126	126	151	151	203	247
WATER PRESSURE DROPS*	<i>m w.c</i>	0,10	0,13	0,16	0,10	0,10	0,14	0,20	0,25	0,22	0,30
FLUE GAS PRESSURE DROP	<i>mm w.c.</i>	1,5	1,8	2,5	3	3	5	8	14	18	22
MAXIMUM BOILER WORKING PRESSURE**	<i>bar</i>	6	6	6	6	6	6	6	6	6	6
WEIGHT	<i>kg</i>	195	195	195	280	280	280	318	318	420	480

* Pressure drops corresponding to a thermal variation of 15K.

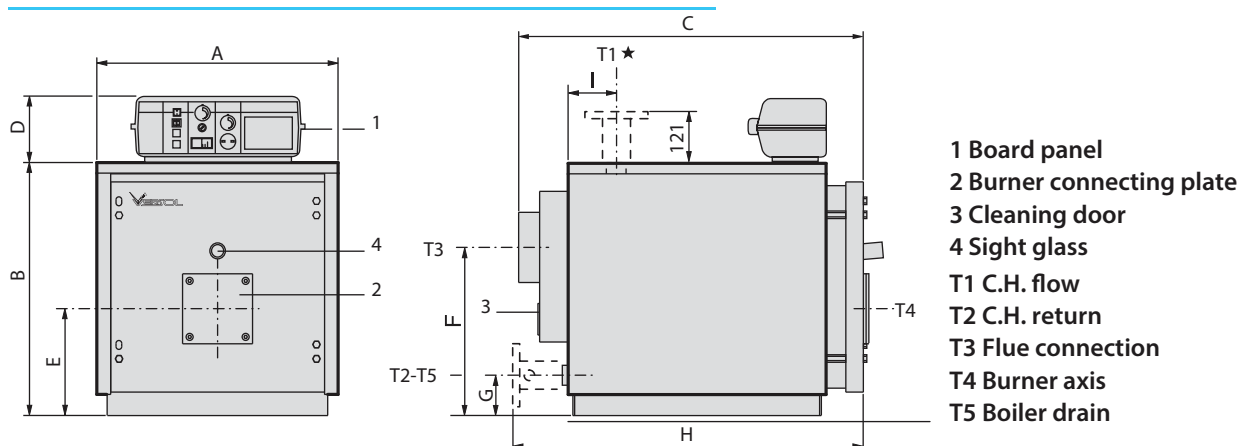
** On request, available up to 10 bar.

PRODUCT PLUS VALUES

- **COMPACT DIMENSIONS**
simplifies the transport and the positioning in boiler house
- **THERMAL EXCHANGE OPTIMISATION**
by driven water passage into the boiler
- **TUBE BUNDLE POSITIONING**
decentralized upwards, above the furnace, with drastic reduction of the possible condensation
- **SMOKE PIPES OF HIGH THICKNESS**
with anti-condensing effect
- **TURBULATORS**
for the thermal exchange optimisation into the smoke pipes
- **BOTTOM OF THE FURNACE**
reinforced with U profiles for greater mechanical resistance
- **INTERNAL DOOR INSULATION**
in light refractory concrete
- **FRONT DOOR**
with self-centering locking
- **EXTERNAL CASING**
inclusive of 60 mm rock wool insulation
- **PANEL BOARD**
suitable for electronic control

PRESSURIZED BOILERS

DIMENSIONS SKD 64 - 291



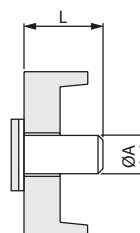
SKD	Nominal output kW	Nominal input kW	Boiler capacity l	Water pressure drops(**) m w.c.	Flue gas pressure drop mm w.c.	Maximum boiler working pressure bar	Weight kg	CONNECTIONS			
								T1 - T2	T3	T4	T5
								ISO 7/1 UNI2278PN16	Øe mm	Øi mm	Øi ISO 7/1
64	64	71	86	0,10	1,5	6	212	Rp 1½	200	130	Rp ¾
76	76	84	86	0,13	1,8	6	212	Rp 1½	200	130	Rp ¾
93	93	102	86	0,16	2,5	6	212	Rp 1½	200	130	Rp ¾
105	105	115	126	0,10	3	6	309	Rp 2	200	180	Rp ¾
116	116	128	126	0,10	3	6	309	Rp 2	200	180	Rp ¾
140	140	155	126	0,14	5	6	309	Rp 2	200	180	Rp ¾
163	163	180	151	0,20	8	6	349	Rp 2	200	180	Rp ¾
186	186	206	151	0,25	14	6	349	Rp 2	200	180	Rp ¾
233	233	258	203	0,22	18	6	485	DN 65*	250	180	Rp ¾
291	291	322	247	0,30	22	6	555	DN 65*	250	180	Rp ¾

SKD	A	B	C	D	E	F	G	H	I
	mm	mm	mm	mm	mm	mm	mm	mm	mm
64	690	722	990	190	305	480	115	--	147
76	690	722	990	190	305	480	115	--	147
93	690	722	990	190	305	480	115	--	147
105	760	812	1205	190	350	500	130	--	157
116	760	812	1205	190	350	500	130	--	157
140	760	812	1205	190	350	500	130	--	157
163	760	812	1385	190	350	500	130	--	157
186	760	812	1385	190	350	500	130	--	258
233	860	937	1437	190	421	580	165	1482	258
291	860	937	1687	190	421	580	165	1732	258

(*) In the SKD 233 and SKD 291 models, connections T1 and T2 are flanged. (**) Pressure drops corresponding to a thermal variation of 15K.

BURNER HEAD TUBE DIMENSIONS

BOILER TYPE	ØA mm	L mm
SKD 64÷93	130	150
SKD 105÷140	180	170
SKD 163÷186	180	170
SKD 233÷291	180	170



PRESSURIZED BOILERS

SKD 64 - 291

TECHNICAL DATA

Gas fired		SKD 64	SKD 76	SKD 93	SKD 105	SKD 116
Nominal output	kW	64,0	76,0	93,0	105,0	116,0
Nominal input	kW	71,0	84,0	102,0	115,0	128,0
Water efficiency at full load (100%)	%	90,1	90,4	91,1	91,3	90,6
Water efficiency at part load (30%)	%	85,4	85,6	85,9	86	86,1
Efficiency class (ex dir. 92/42 CEE)		1	1			1
Combustion efficiency at nominal load (100%)	%	90,6	91	91,6	91,8	91,1
Casing heat losses (80°-60°C)	%	0,5	0,5	0,5	0,5	0,4
Chimney losses with burner on	%	9,3	8,9	8,3	8,1	8,9
Chimney losses with burner off	%	0,2	0,2	0,2	0,2	0,2
Net flue gas temperature tf-ta	°C	187,0	180,4	169,2	167,3	182,3
CO ₂ content	%	9,5	9,6	9,7	9,8	9,8
Flue gas mass flow rate	kg/h	109,0	128,5	154,7	172,9	192,4

Gas fired		SKD 140	SKD 163	SKD 186	SKD 233	SKD 291
Nominal output	kW	140,0	163,0	186,0	233,0	291,0
Nominal input	kW	155,0	180,0	206,0	258,0	322,0
Water efficiency at full load (100%)	%	90,3	90,5	90,2	90,3	90,3
Water efficiency at part load (30%)	%	86,4	86,6	86,8	87,1	87,3
Efficiency class (ex dir. 92/42 CEE)		1	1			1
Combustion efficiency at nominal load (100%)	%	90,8	91,2	91	91	90,8
Casing heat losses (80°-60°C)	%	0,5	0,6	0,7	0,7	0,5
Chimney losses with burner on	%	9,1	8,7	8,9	8,9	9,1
Chimney losses with burner off	%	0,2	0,2	0,2	0,2	0,2
Net flue gas temperature tf-ta	°C	187,9	179,5	184,2	183,2	187,0
CO ₂ content	%	9,8	9,8	9,8	9,8	9,8
Flue gas mass flow rate	kg/h	233,0	270,6	309,6	387,8	484,0

Oil fire		SKD 64	SKD 76	SKD 93	SKD 105	SKD 116
Nominal output	kW	64,0	76,0	93,0	105,0	116,0
Nominal input	kW	71,0	84,0	102,0	115,0	128,0
Water efficiency at full load (100%)	%	90,1	90,4	91,1	91,3	90,6
Water efficiency at part load (30%)	%	85,4	85,6	85,9	86	86,1
Efficiency class (ex dir. 92/42 CEE)		1	1			1
Combustion efficiency at nominal load (100%)	%	90,6	91	91,6	91,7	91,1
Casing heat losses (80°-60°C)	%	0,5	0,5	0,4	0,4	0,4
Chimney losses with burner on	%	9,3	8,9	8,3	8,2	8,9
Chimney losses with burner off	%	0,2	0,2	0,2	0,2	0,2
Net flue gas temperature tf-ta	°C	200,0	193,0	181,0	179,0	195,0
CO ₂ content	%	12,4	12,5	12,6	12,7	12,8
Flue gas mass flow rate	kg/h	111,4	131,6	158,6	177,4	196

PROFESSIONAL

SKD 340÷7000



PRESSURIZED STEEL BOILER WITH REVERSED FLAME

OUTPUT RANGE

from 340 to 7000 kW

WORKING TEMPERATURE

minimum return temperature 55°C

OPERATION WITH

gas or oil fi red pressure jet burners

MODELS

340	420	510	630	760	870	970	1100	1320	1570	1850
2200	2650	3000	3500	4000	4500	5000	5500	6000	6500	7000

EFFICIENCY CLASS
according to Dir. 92/42/EC

★★★CE

CERTIFICATION IN OUTPUT RANGE

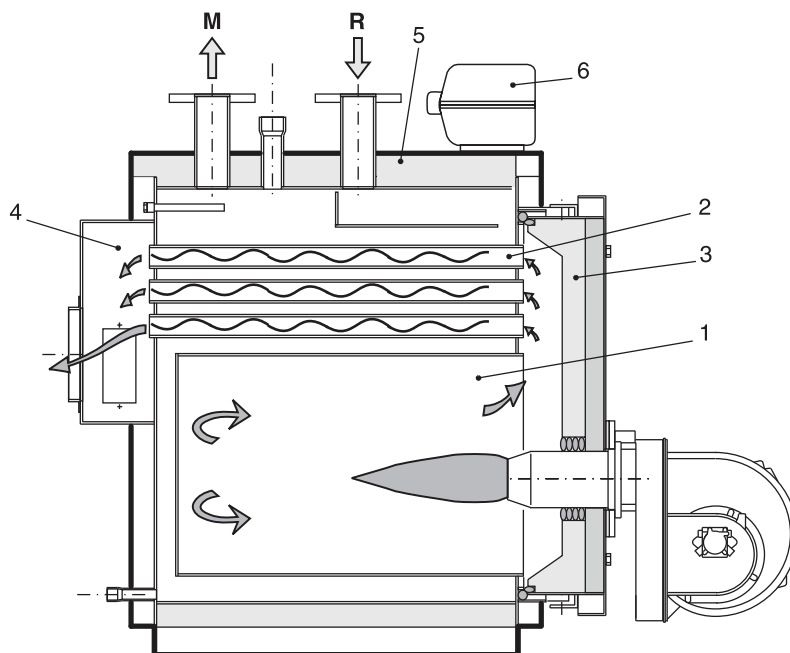
(in the order, it's possible to request a specific output within the certified range)

PRESSURIZED BOILERS

SKD 340÷7000

MAIN COMPONENTS

1. Furna
2. Smoke pipes with smoke diverters
3. Door with flame control warning light
4. Smoke chamb
5. Body insulati
6. Panel b rd



TECHNICAL DATA

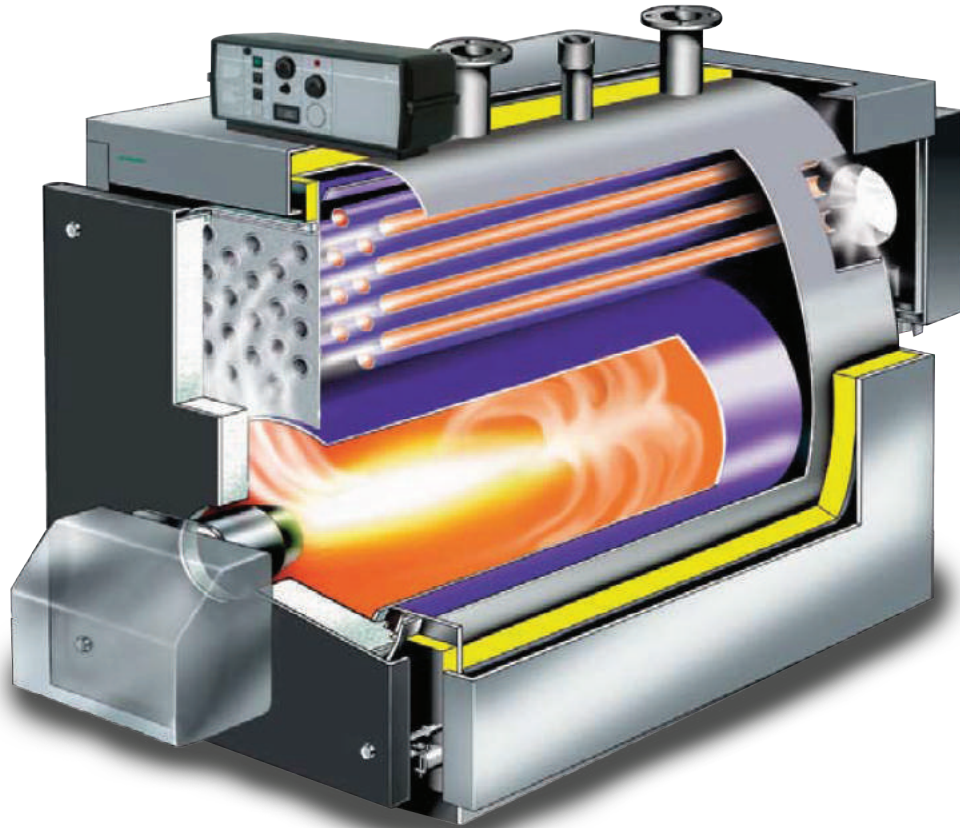
Model	Heat output	Heat input	Boiler capacity	Water side	Flue gas	Max. boiler operating pressure	Combustion chamber	Weight
	min/max	min/max		pressure drops	pressure drops			
	<i>kW</i>	<i>kW</i>	<i>l</i>	<i>m w.c.</i>	<i>mm w.c.</i>	<i>bar</i>	<i>m³</i>	<i>kg</i>
SKD 340	255÷340	277÷371	298	0,16÷0,28	17÷34	6	0,226	629
SKD 420	315÷420	342÷459	398	0,09÷0,17	16÷29	6	0,288	849
SKD 510	385÷510	418÷557	462	0,14÷0,25	24÷43	6	0,337	972
SKD 630	480÷630	520÷688	565	0,21÷0,38	32÷55	6	0,416	1102
SKD 760	580÷760	630÷830	671	0,15÷0,26	29÷51	6	0,513	1372
SKD 870	660÷870	715÷950	753	0,19÷0,33	33÷ 57	6	0,584	1482
SKD 970	750÷970	815÷1060	836	0,24÷0,41	29÷ 49	6	0,656	1588
SKD 1100	860÷1100	935÷1200	1040	0,18÷0,30	32÷52	6	0,748	1821
SKD 1320	1000÷1320	1087÷1442	1242	0,20÷0,35	38÷67	6	0,869	2030
SKD 1570	1200÷1570	1304÷1715	1418	0,19÷0,33	35÷60	6	1,087	2780
SKD 1850	1400÷1850	1520÷2020	1617	0,26÷0,45	42÷73	6	1,303	3280
SKD 2200	1700÷2200	1845÷2400	2086	0,21÷0,34	39÷65	6	1,650	4145
SKD 2650	2000÷2650	2170÷2890	2324	0,28÷0,48	43÷76	6	1,866	4465
SKD 3000	2300÷3000	2492÷3280	2667	0,36÷0,62	35÷60	6	2,313	5110
SKD 3500	2700÷3500	2930÷3825	4142	0,54÷0,84	47÷74	6	2,601	6700
SKD 4000	3200÷4000	3478÷4371	4455	0,54÷0,85	60÷80	6	3,126	7500
SKD 4500	3420÷4500	3638,3÷4838,7	6012	0,70÷0,85	51÷88	6	4,151	7750
SKD 5000	3800÷5000	4064,2÷5421,8	6012	0,80÷1,05	65÷110	6	4,151	7750
SKD 5500	4180÷5500	4446,8÷5914	7058	0,95÷1,15	60÷100	6	4,838	9300
SKD 6000	4870÷6000	4877÷6506,2	7058	1,00÷1,35	68÷120	6	4,838	9300
SKD 6500	4940÷6500	5255,3÷6989,2	7909	1,05÷1,50	61÷105	6	6,832	12600
SKD 7000	5320÷7000	5689,8÷7590,5	7909	1,10÷1,75	69÷120	6	6,832	12600

Pressure drops corresponding to a thermal variation of 15K.

On special order the boilers from model SKD 1100 to SKD 7000 can be manufactured for a max. working pressure up to 10 bar.

Pressurized boilers

SKD 340÷7000



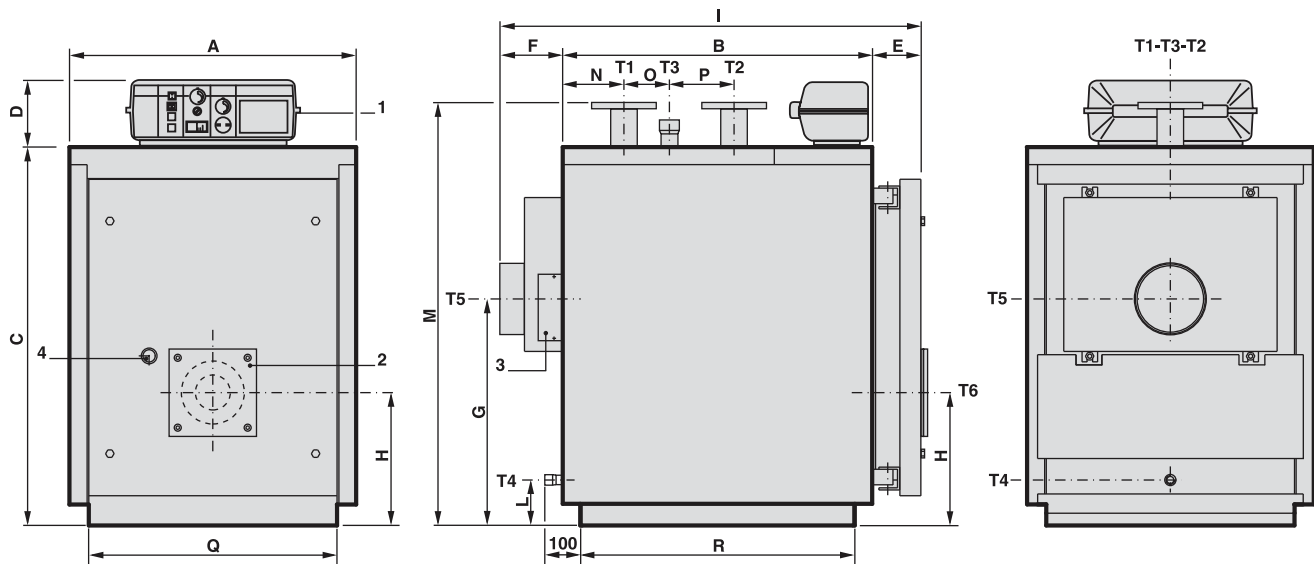
ADVANTAGES

- FLEXIBILITY OF USE
- THERMAL EXCHANGE OPTIMISATION
by driven water passage into the boiler
- THE ELLIPTIC SHELL SHAPE (up to 970 kW)
has interesting advantages:
 - smaller dimensions (for easier transport and positioning)
 - smoke pipes positioning above the furnace with drastic reduction of the possible condensation
- SMOKE PIPES OF HIGH THICKNESS
with anti-condensing effect
- TURBOLATORS
for the thermal exchange optimisation into the smoke pipes
- CYLINDRICAL FLOATING FURNACE
anti thermo-mechanic stress from 760 kW
- BOTTOM OF THE FURNACE WITH DISSIPATION PLATES
for greater performance and greater mechanical resistance
- FRONT DOOR
with self centering locking
- INTERNAL DOOR INSULATION
in light refractory concrete
- EXTERNAL CASING
inclusive of 80 mm rock wool insulation
- THERMOSTATIC OR ELECTRONIC CONTROL PANELS
- FACILITATED TRANSPORT
thanks to the upper hooks and strong base plates

Pressurized boilers

SKD 340÷7000

DIMENSIONS SKD 340÷970



- 1 Panel board
- 2 Burner connection flange
- 3 Smoke chamber cleaning door
- 4 Flame control warning light

- T1 Heating flow
- T2 Heating return
- T3 Expansion vessel connection
- T4 Boiler drain

- T5 Chimney connection
- T6 Burner connection

SKD	Nominal output kW	Nominal input kW	Boiler capacity l	Water pressure drops(**) m w.c.	Flue gas pressure drop mm w.c.	Maximum boiler working pressure bar	Weight kg	CONNECTIONS				
								T1 T2	T3 ISO 7/1 UNI 2278 PN16	T4 ISO 7/1	T5 Øi	T6 Ø
								UNI 2278 PN16	UNI 2278 PN16	ISO 7/1	mm	mm
340	255÷340	277÷371	298	0,16÷0,28	17÷34	6	629	DN 80	Rp 2	Rp ¾	250	220
420	315÷420	342÷459	398	0,09÷0,17	16÷29	6	796	DN 100	Rp 2	Rp ¾	250	220
510	385÷510	418÷557	462	0,14÷0,25	24÷43	6	919	DN 100	Rp 2	Rp ¾	250	220
630	480÷630	520÷688	565	0,21÷0,38	32÷55	6	1049	DN 100	Rp 2	Rp ¾	300	220
760	580÷760	630÷830	671	0,15÷0,26	29÷51	6	1341	DN 125	DN 65	Rp 1¼	350	270
870	660÷870	715÷950	753	0,19÷0,33	33÷57	6	1447	DN 125	DN 65	Rp 1¼	350	270
970	750÷970	815÷1060	836	0,24÷0,41	29÷49	6	1553	DN 125	DN 65	Rp 1¼	350	270

SKD	A	B	C	D	E	F	G	H	I	L	M*	N	O	P	Q*	R*
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
340	860	1210	1182	190	139	190	708	400	1541	130	1310	215	340	250	750	1112
420	890	1275	1352	190	139	190	748	440	1606	125	1485	255	285	315	780	1177
510	890	1470	1352	190	139	190	748	440	1801	125	1485	255	480	315	780	1372
630	890	1780	1352	190	139	190	748	440	2113	125	1485	255	790	315	780	1682
760	1122	1605	1432	190	195	190	765	480	1989	125	1540	298	435	440	1020	1504
870	1122	1800	1432	190	195	190	765	480	2184	125	1540	298	630	440	1020	1699
970	1122	1995	1432	190	195	190	765	480	2379	125	1540	298	825	440	1020	1894

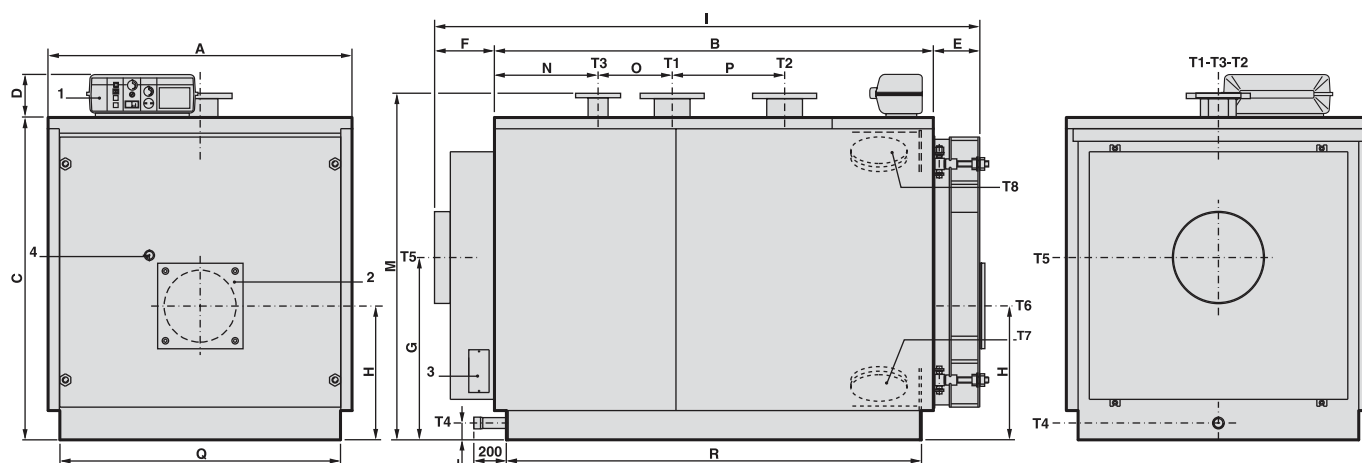
(*) Minimum dimensions for boiler room access.

(**) Pressure drops corresponding to a thermal variation of 15K.

Pressurized boilers

SKD 340÷7000

DIMENSIONS SKD 1100÷2650



- 1 Panel board
- 2 Burner connection flange
- 3 Smoke chamber cleaning door
- 4 Flame control warning light

- T1 Heating flow
- T2 Heating return
- T3 Expansion vessel connection
- T4 Boiler drain

- T5 Chimney connection
- T6 Burner connection
- T7 Boiler air bleed
- T8 Inspection door

SKD	Nominal output kW	Nominal input kW	Boiler capacity l	Water pressure drops(**) m w.c.	Flue gas pressure drop mm w.c.	Maximum boiler working pressure bar	Weight kg	CONNECTIONS				
								T1 T2	T3	T4	T5 Øi	T6 Ø
								UNI2278PN16	UNI2278PN16	ISO 7/1	mm	mm
1100	860÷1100	935÷1200	1040	0,18÷0,30	32÷52	6	1821	DN 150	DN 80	Rp 1½	400	320
1320	1000÷1320	1087÷1442	1242	0,20÷0,35	38÷67	6	2030	DN 150	DN 80	Rp 1½	400	320
1570	1200÷1570	1304÷1715	1418	0,19÷0,33	35÷60	6	2780	DN 175	DN 100	Rp 1½	450	320
1850	1400÷1850	1520÷2020	1617	0,26÷0,45	42÷73	6	3280	DN 175	DN 100	Rp 1½	450	320
2200	1700÷2200	1845÷2400	2086	0,21÷0,34	39÷65	6	4145	DN 200	DN 125	Rp 1½	520	380
2650	2000÷2650	2170÷2890	2324	0,28÷0,48	43÷76	6	4465	DN 200	DN 125	Rp 1½	520	380

SKD	A	B	C	D	E	F	G	H	I	L	M*	N	O	P	Q*	R*
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1100	1352	1952	1432	190	207	187	810	595	2346	180	1540	461	330	500	1250	1846
1320	1352	2292	1432	190	207	187	810	595	2686	180	1540	461	670	500	1250	2186
1570	1462	2282	1542	190	227	272	880	640	2781	75	1650	561	510	550	1360	2176
1850	1462	2652	1542	190	227	272	880	640	3151	75	1650	561	880	550	1360	2546
2200	1622	2692	1702	190	259	274	950	690	3225	75	1810	661	670	700	1520	2590
2650	1622	3014	1702	190	258	273	950	690	3545	75	1810	662	990	700	1520	2910

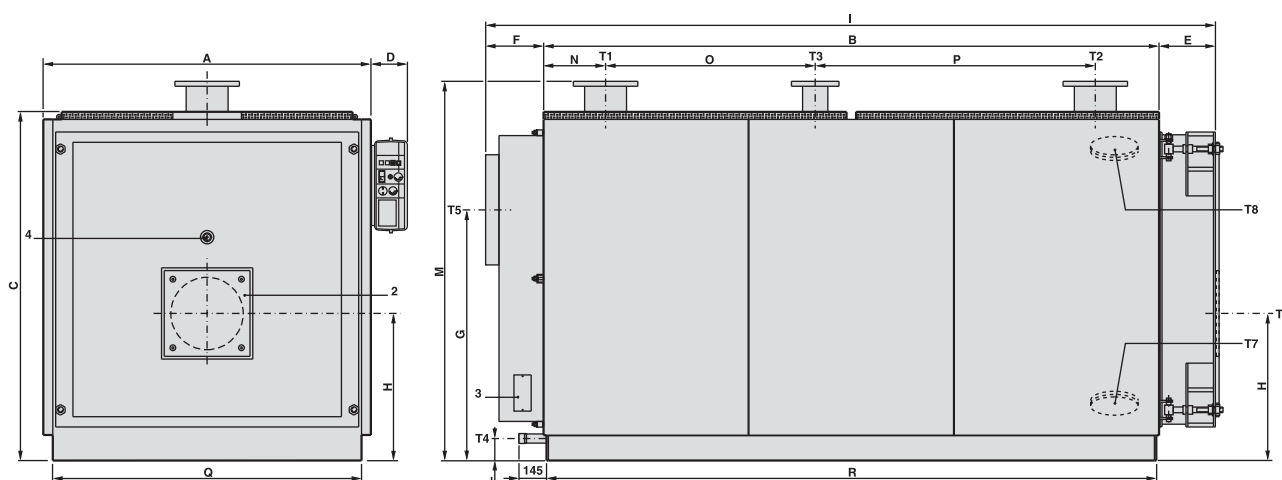
(*) Minimum dimensions for boiler room access. (**) Pressure drops corresponding to a thermal variation of 15K.

On special order the boilers from model SKD 1100 to SKD 7000 can be manufactured for a max. working pressure up to 10 bar.

Pressurized boilers

SKD 340÷7000

DIMENSIONS SKD 3000÷4000



- 1 Panel board
- 2 Burner fixing plate
- 3 Smoke chamber cleaning door
- 4 Sight glass

- T1 C.H. flow
- T2 C.H. return
- T3 Expansion vessel connection
- T4 Boiler drain

- T5 Flue socket
- T6 Burner connection
- T7 Sludge drain
- T8 Inspection door

SKD	Nominal output	Nominal input	Boiler capacity <i>l</i>	Water pressure drops(**) <i>m w.c.</i>	Flue gas pressure drop <i>mm w.c.</i>	Maximum boiler working pressure <i>bar</i>	Weight <i>kg</i>	CONNECTIONS				
	<i>kW</i>	<i>kW</i>						T1 T2	T3	T4	T5 Øi	T6 Ø
								UNI2278PN16	UNI2278PN16	ISO 7/1	mm	mm
3000	2300÷3000	2492÷3280	2667	0,36÷0,62	35÷60	6	5110	DN 200	DN 125	Rp 1½	570	380
3500	2700÷3500	2930÷3825	4142	0,54÷0,84	47÷74	6	6700	DN 200	DN 125	Rp 1½	620	400
4000	3040÷4000	3297÷4371	4455	0,54÷0,85	60÷80	6	7500	DN 250	DN 125	Rp 1½	620	400

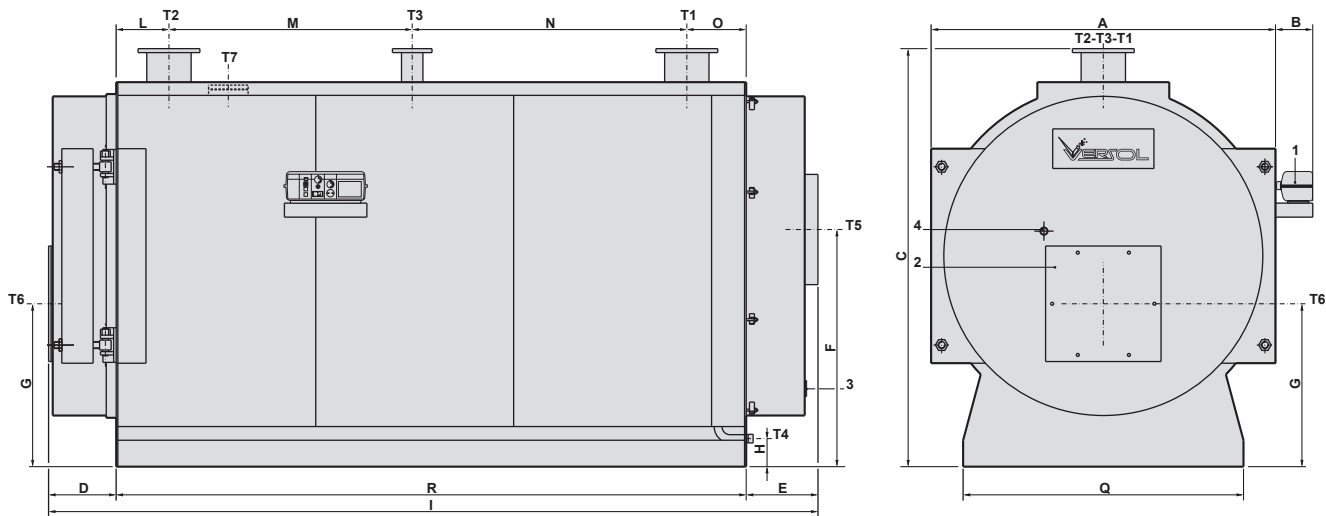
SKD	A	B	C	D	E	F	G	H	I	L	M*	N	O	P	Q*	R*
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
3000	1720	3230	1830	190	295	310	1315	772	3835	115	1990	325	1100	1470	1620	3200
3500	1970	3194	2090	190	325	360	1535	915	3879	144	2271	377	1060	1420	1870	3164
4000	1970	3594	2090	190	325	360	1535	915	4279	144	2271	777	1060	1420	1870	3564

(*) Minimum dimensions for boiler room access. (**) Pressure drops corresponding to a thermal variation of 15K.

On special order the boilers from model SKD 1100 to SKD 7000 can be manufactured for a max. working pressure up to 10 bar.

SKD 340÷7000

DIMENSIONS SKD 4500÷7000



- | | | |
|-------------------------------|--------------------------------|-----------------------|
| 1 Panel board | T1 Heating flow | T5 Chimney connection |
| 2 Burner connection flange | T2 Heating return | T6 Burner connection |
| 3 Smoke chamber cleaning door | T3 Expansion vessel connection | T7 Inspection door |
| 4 Flame control warning light | T4 Boiler drain | |

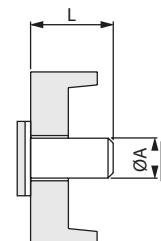
SKD	Nominal output kW	Nominal input kW	Boiler capacity l	Water pressure drops(**) m w.c.	Flue gas pressure drop mm w.c.	Maximum boiler working pressure bar	Weight kg	CONNECTIONS					
								T1 T2	T3	T4	T5 Øi	T6 Ø	T7 Ø
								UNI2278PN16	UNI2278PN16	ISO 7/1	mm	mm	mm
4500	3420÷4500	3638,3÷4838,7	6012	0,70÷0,85	51÷88	6	8310	DN 250	DN 125	Rp 1½	660	500	133
5000	3800÷5000	4064,2÷5421,8	6012	0,80÷1,05	65÷110	6	8310	DN 250	DN 125	Rp 1½	660	500	133
5500	4180÷5500	4446,8÷5914	7058	0,95÷1,15	60÷100	6	9300	DN 250	DN 125	Rp 1½	660	500	133
6000	4560÷6000	4877÷6506,2	7058	1,00÷1,35	68÷120	6	9300	DN 250	DN 125	Rp 1½	660	500	133
6500	4940÷6500	5255,3÷6989,2	7909	1,05÷1,50	61÷105	6	12600	DN 250	DN 125	Rp 1½	720	500	133
7000	5320÷7000	5689,8÷7590,5	7909	1,10÷1,75	69÷120	6	12600	DN 250	DN 125	Rp 1½	720	500	133

SKD	A	B	C*	D	E	F	G	H	I	L	M	N	O	Q*	R*
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
4500	2088	226	2533	417	445	1437	987	170	4682	320	1475	1665	360	1700	3820
5000	2088	226	2533	417	445	1437	987	170	4682	320	1475	1665	360	1700	3820
5500	2214	240	2653	437	465	1550	1007	167	4872	320	1475	1815	360	1700	3970
6000	2214	240	2653	437	465	1550	1007	167	4872	320	1475	1815	360	1700	3970
6500	2380	240	2860	509	595	1650	1100	224	5484	325	2920	670	465	1850	4380
7000	2380	240	2860	509	595	1650	1100	224	5484	325	2920	670	465	1850	4380

(*) Minimum dimensions for boiler room access. (**) Pressure drops corresponding to a thermal variation of 15K.
On special order the boilers from model SKD 1100 to SKD 7000 can be manufactured for a max. working pressure up to 10 bar.

BURNER HEAD TUBE DIMENSIONS

BOILER TYPE	øA mm	L mm	BOILER TYPE	øA mm	L mm
SKD 340÷630	220	250	SKD 3000	380	400
SKD 760÷970	270	270	SKD 3500÷4000	400	400
SKD 1100÷1320	320	300	SKD 4500÷6000	500	520
SKD 1570÷1850	320	320	SKD 6500÷7000	500	630
SKD 2200÷2650	380	350			



SKD 340÷7000

TECHNICAL DATA

Oil fired		SKD 340	SKD 420	SKD 510	SKD 630	SKD 760	SKD 870	SKD 970	SKD 1100
Nominal heat output	kW	255÷340	315÷420	385÷510	480÷630	580÷760	660÷870	750÷970	860÷1100
Thermal output of furnace	kW	277÷371	342÷459	418÷557	520÷688	630÷830	715÷950	815÷1060	935÷1200
Heat efficiency at nominal load (100%)	%	92÷91,6	92,1÷91,5	92,1÷91,5	92,3÷91,5	92÷91,5	91,5÷91,5	92÷91,5	91,9÷91,6
Heat efficiency at 30% load	%	93,6÷93,6	93,9÷93,9	93,9÷93,9	93,9÷93,9	93,9÷93,9	93,9÷93,9	93,9÷93,9	93,9÷93,9
Combustion efficiency at nominal load (100%)	%	92,8÷92,5	92,7÷92,4	92,7÷92,4	92,6÷92	92,3÷92,1	92,1÷92,1	92,5÷91,9	92,3÷92
Heat loss at casing (min.-max.)	%	0,8÷0,8	0,6÷0,9	0,6÷0,9	0,3÷0,4	0,2÷0,5	0,5÷0,5	0,4÷0,4	0,4÷0,3
Heat loss at chimney with burner on (min.-max.)	%	7,1÷7,4	7,2÷7,5	7,3÷7,5	7,3÷7,9	7,6÷7,8	7,8÷7,8	7,4÷8	7,6÷7,9
Heat loss at chimney with burner off (min.-max.)	%	0,2÷0,2	0,2÷0,2	0,2÷0,2	0,2÷0,2	0,2÷0,2	0,2÷0,2	0,2÷0,2	0,2÷0,2
Flue gas temperature tf-ta (min.-max.)	°C	156÷164	158÷166	160÷165	162÷175	168÷173	158÷172	164÷177	167÷175
CO ₂ content	%	12,8÷12,8	12,8÷12,8	12,8÷12,8	12,8÷12,8	12,8÷12,8	12,8÷12,8	12,8÷12,8	12,8÷12,8
Flue gas mass flow rate (min.-max)	kg/h	424÷568	523÷702	640÷852	796÷1053	964÷1271	1094÷1454	1248÷1632	1431÷1837
Oil fired		SKD 1320	SKD 1570	SKD 1850	SKD 2200	SKD 2650	SKD 3000	SKD 3500	SKD 4000
Nominal heat output	kW	1000÷1320	1200÷1570	1400÷1850	1700÷2200	2000÷2650	2300÷3000	2700÷3500	3040÷4000
Thermal output of furnace	kW	1087÷1442	1304÷1715	1520÷2020	1845÷2400	2170÷2890	2492÷3280	2930÷3825	3297÷4371
Heat efficiency at nominal load (100%)	%	92÷91,5	92÷91,5	92,1÷91,5	92,1÷91,6	92,1÷91,7	92,3÷91,4	92,1÷91,4	92,2÷91,5
Heat efficiency at 30% load	%	93,9÷93,9	93,9÷93,9	93,9÷93,9	93,9÷93,9	93,9÷93,9	93,9÷93,9	93,9÷93,9	93,9÷93,9
Combustion efficiency at nominal load (100%)	%	92,2÷91,8	92,2÷91,9	92,4÷91,8	92,4÷91,9	92,4÷92	92,4÷91,7	92,4÷91,7	92,4÷91,8
Heat loss at casing (min.-max.)	%	0,2÷0,2	0,2÷0,3	0,3÷0,3	0,3÷0,3	0,3÷0,3	0,1÷0,3	0,3÷0,3	0,2÷0,3
Heat loss at chimney with burner on (min.-max.)	%	7,7÷8,1	7,7÷8	7,5÷8,1	7,5÷8	7,5÷8	7,5÷8,2	7,5÷8,2	7,5÷8,1
Heat loss at chimney with burner off (min.-max.)	%	0,2÷0,2	0,2÷0,2	0,2÷0,2	0,2÷0,2	0,2÷0,2	0,2÷0,2	0,2÷0,2	0,2÷0,2
Flue gas temperature tf-ta (min.-max.)	°C	170÷179	170÷177	165÷178	165÷176	165÷175	165÷180	165÷180	165÷179
CO ₂ content	%	12,8÷12,8	12,8÷12,8	12,8÷12,8	12,8÷12,8	12,8÷12,8	12,8÷12,8	12,8÷12,8	12,8÷12,8
Flue gas mass flow rate (min.-max)	kg/h	1664÷2208	1996÷2626	2327÷3093	2825÷3675	3322÷4425	3816÷5022	4486÷5861	5048÷6693
Oil fired		SKD 4500	SKD 5000	SKD 5500	SKD 6000	SKD 6500	SKD 7000		
Nominal heat output	kW	3420÷4500	3800÷5000	4180÷5500	4560÷6000	4940÷6500	5320÷7000		
Thermal output of furnace	kW	3638,3÷4838,7	4064,2÷5421,8	4446,8÷5914	4877÷6506,2	5255,3÷6989,2	5689,8÷7590,5		
Heat efficiency at nominal load (100%)	%	94,0÷93,0	93,5÷92,22	94,0÷93,0	93,5÷92,22	94,0÷93,0	93,5÷92,22		
Heat efficiency at 30% load	%	94,66÷93,65	94,15÷92,87	94,66÷93,65	94,15÷92,87	94,66÷93,65	94,15÷92,87		
Combustion efficiency at nominal load (100%)	%	94,53÷93,48	94,07÷92,84	94,53÷93,48	94,07÷92,84	94,53÷93,48	94,07÷92,84		
Heat loss at casing (min.-max.)	%	0,53÷0,48	0,57÷0,62	0,53÷0,48	0,57÷0,62	0,53÷0,48	0,57÷0,62		
Heat loss at chimney with burner on (min.-max.)	%	5,47÷6,52	5,93÷7,16	5,47÷6,52	5,93÷7,16	5,47÷6,52	5,93÷7,16		
Heat loss at chimney with burner off (min.-max.)	%	0,2÷0,2	0,2÷0,2	0,2÷0,2	0,2÷0,2	0,2÷0,2	0,2÷0,2		
Flue gas temperature tf-ta (min.-max.)	°C	120÷143	130÷157	120÷143	130÷157	120÷143	130÷157		
CO ₂ content	%	12,8÷12,8	12,8÷12,8	12,8÷12,8	12,8÷12,8	12,8÷12,8	12,8÷12,8		
Flue gas mass flow rate (min.-max)	kg/h	5571,4÷7409,6	6223,5÷8302,5	6809,4÷9056,1	7468,2÷9963,0	8047,5÷10702,7	8712,9÷11623,5		
Gas fired		SKD 340	SKD 420	SKD 510	SKD 630	SKD 760	SKD 870	SKD 970	SKD 1100
Nominal heat output	kW	255÷340	315÷420	385÷510	480÷630	580÷760	660÷870	750÷970	860÷1100
Thermal output of furnace	kW	277÷371	342÷459	418÷557	520÷688	630÷830	715÷950	815÷1060	935÷1200
Heat efficiency at nominal load (100%)	%	92÷91,6	92,1÷91,5	92,1÷91,5	92,3÷91,5	92÷91,5	92,3÷91,5	92÷91,5	91,9÷91,6
Heat efficiency at 30% load	%	93,6÷93,6	93,9÷93,9	93,9÷93,9	93,9÷93,9	93,9÷93,9	93,9÷93,9	93,9÷93,9	93,9÷93,9
Combustion efficiency at nominal load (100%)	%	92,9÷92,5	92,8÷92,4	92,7÷92,4	92,6÷92	92,3÷92,1	92,8÷92,1	92,5÷91,9	91,4÷92
Heat loss at casing (min.-max.)	%	0,8÷0,8	0,7÷0,9	0,6÷0,9	0,3÷0,4	0,2÷0,5	0,5÷0,6	0,5÷0,4	0,4÷0,3
Heat loss at chimney with burner on (min.-max.)	%	7,1÷7,4	7,1÷7,5	7,2÷7,5	7,3÷7,9	7,6÷7,8	7,1÷7,8	7,4÷8	7,6÷7,9
Heat loss at chimney with burner off (min.-max.)	%	0,2÷0,2	0,2÷0,2	0,2÷0,2	0,2÷0,2	0,2÷0,2	0,2÷0,2	0,2÷0,2	0,2÷0,2
Flue gas temperature tf-ta (min.-max.)	°C	145÷152	147÷154	149÷153	151÷163	156÷161	147÷160	152÷165	155÷163
CO ₂ content	%	9,8÷9,8	9,8÷9,8	9,8÷9,8	9,8÷9,8	9,8÷9,8	9,8÷9,8	9,8÷9,8	9,8÷9,8
Flue gas mass flow rate (min.-max)	kg/h	416÷557	514÷689	628÷837	781÷1034	947÷1247	1074÷1428	1225÷1593	1405÷1803
Gas fired		SKD 1320	SKD 1570	SKD 1850	SKD 2200	SKD 2650	SKD 3000	SKD 3500	SKD 4000
Nominal heat output	kW	1000÷1320	1200÷1570	1400÷1850	1700÷2200	2000÷2650	2300÷3000	2700÷3500	3040÷4000
Thermal output of furnace	kW	1087÷1442	1304÷1715	1520÷2020	1845÷2400	2170÷2890	2492÷3280	2930÷3825	3297÷4371
Heat efficiency at nominal load (100%)	%	92÷91,5	92÷91,5	92,1÷91,5	92,1÷91,6	92,1÷91,7	92,3÷91,4	92,1÷91,4	92,2÷91,5
Heat efficiency at 30% load	%	93,9÷93,9	93,9÷93,9	93,9÷93,9	93,9÷93,9	93,9÷93,9	93,9÷93,9	93,9÷93,9	93,9÷93,9
Combustion efficiency at nominal load (100%)	%	92,2÷91,8	92,2÷91,9	92,4÷91,9	92,4÷91,9	92,4÷92	92,4÷91,8	92,4÷91,8	92,4÷91,8
Heat loss at casing (min.-max.)	%	0,2÷0,3	0,2÷0,4	0,3÷0,3	0,3÷0,3	0,3÷0,3	0,2÷0,3	0,3÷0,3	0,2÷0,3
Heat loss at chimney with burner on (min.-max.)	%	7,7÷8,1	7,7÷8	7,5÷8,1	7,5÷8	7,5÷7,9	7,5÷8,1	7,5÷8,1	7,5÷8,1
Heat loss at chimney with burner off (min.-max.)	%	0,2÷0,2	0,2÷0,2	0,2÷0,2	0,2÷0,2	0,2÷0,2	0,2÷0,2	0,2÷0,2	0,2÷0,2
Flue gas temperature tf-ta (min.-max.)	°C	158÷166	158÷165	153÷166	153÷164	153÷163	153÷167	153÷167	153÷166
CO ₂ content	%	9,8÷9,8	9,8÷9,8	9,8÷9,8	9,8÷9,8	9,8÷9,8	9,8÷9,8	9,8÷9,8	9,8÷9,8
Flue gas mass flow rate (min.-max)	kg/h	1633÷2167	1960÷2577	2284÷3036	2773÷3607	3261÷4344	3745÷4930	4404÷5754	4955÷6570
Gas fired		SKD 4500	SKD 5000	SKD 5500	SKD 6000	SKD 6500	SKD 7000		
Nominal heat output	kW	3420÷4500	3800÷5000	4180÷5500	4560÷6000	4940÷6500	5320÷7000		
Thermal output of furnace	kW	3638,3÷4838,7	4064,2÷5421,8	4446,8÷5914	4877÷6506,2	5255,3÷6989,2	5689,8÷7590,5		
Heat efficiency at nominal load (100%)	%	94,0÷93,0	93,5÷92,22	94,0÷93,0	93,5÷92,22	94,0÷93,0	93,5÷92,22		
Heat efficiency at 30% load	%	94,66÷93,65	94,15÷92,87	94,66÷93,65	94,15÷92,87	94,66÷93,65	94,15÷92,87		
Combustion efficiency at nominal load (100%)	%	94,54÷93,51	94,05÷92,83	94,54÷93,46	94,05÷92,83	94,54÷93,46	94,05÷92,83		
Heat loss at casing (min.-max.)	%	0,54÷0,51	0,55÷0,61	0,54÷0,46	0,55÷0,61	0,54÷0,46	0,55÷0,61		
Heat loss at chimney with burner on (min.-max.)	%	5,46÷6,49	5,95÷7,17	5,46÷6,54	5,95÷7,17	5,46÷6,54	5,95÷7,17		
Heat loss at chimney with burner off (min.-max.)	%	0,2÷0,2	0,2÷0,2	0,2÷0,2	0,2÷0,2	0,2÷0,2	0,2÷0,2		
Flue gas temperature tf-ta (min.-max.)	°C	112÷133	122÷147	112÷134	122÷147	112÷134	122÷147		
CO ₂ content	%	9,8÷9,8	9,8÷9,8	9,8÷9,8	9,8÷9,8	9,8÷9,8	9,8÷9,8		
Flue gas mass flow rate (min.-max)	kg/h	5468,9÷7273,3	6109,0÷8149,8	6684,2÷8889,5	7330,8÷9779,7	7899,5÷10505,8	8552,6÷11409,7		

Water Heating & Cooling Solutions

Solar Water Heaters

Heat Exchangers

Storage Calorifiers

Heat Pump

Hot Water Boilers

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