

MAXCHANGE

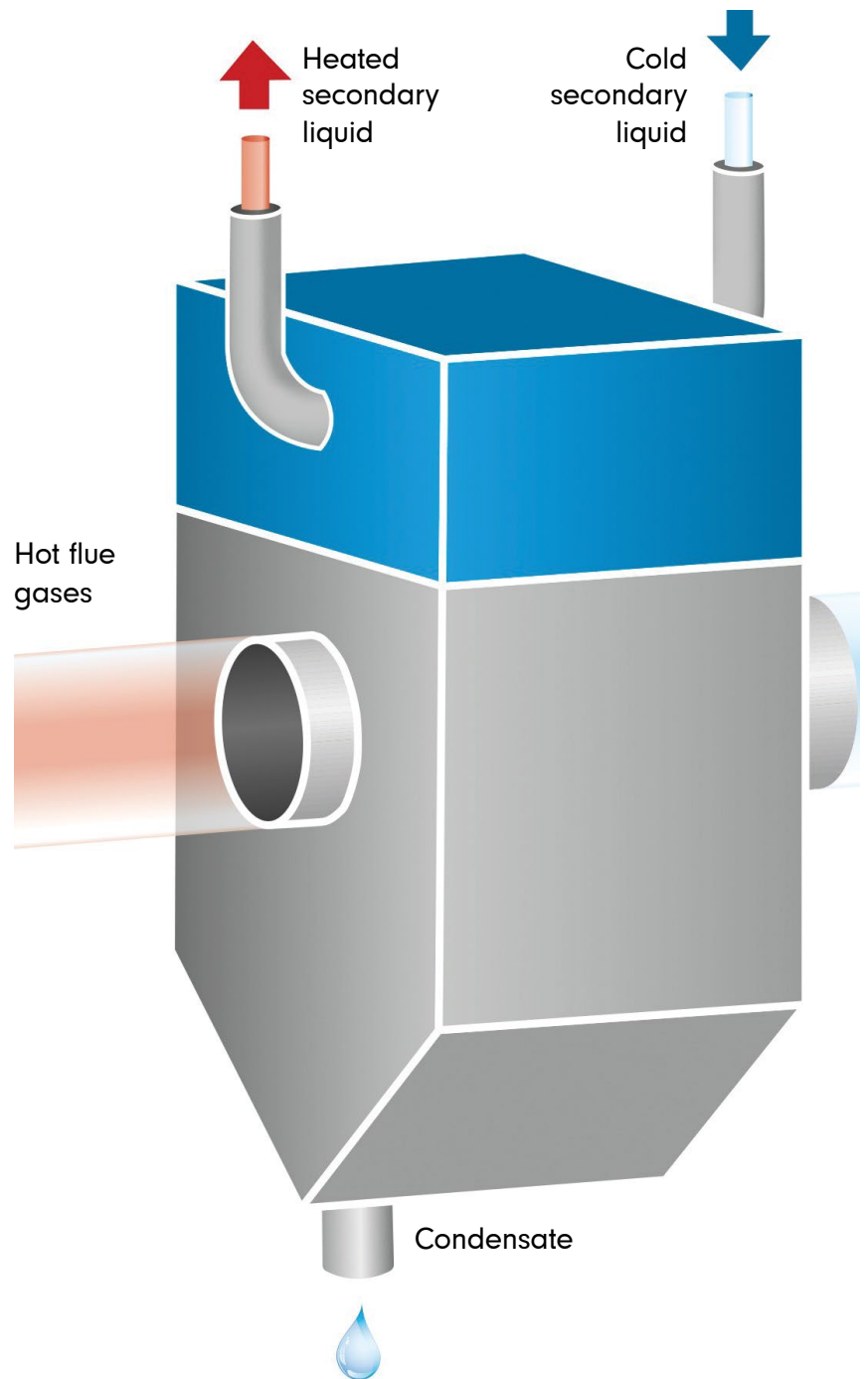
ADD-ON CONDENSING EXCHANGERS

THE CLEAN-CUT, ACCESSIBLE MAXCHANGE DESIGN

Stainless steel framework

High grade plastic
exchanger

Up to 200°C flue gas
temperature



TECHNICAL DATA Dimensions 90-250

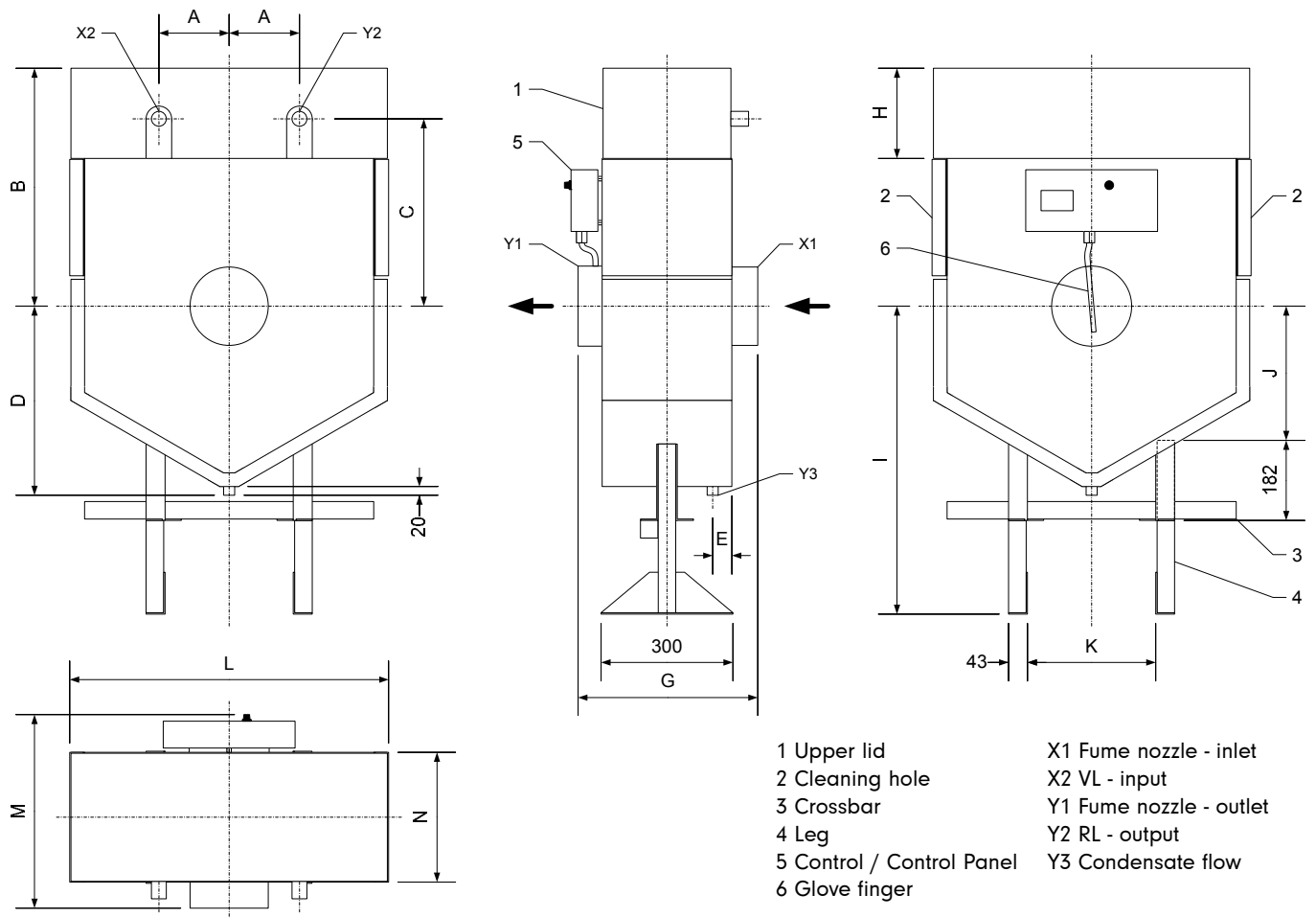


Figure 1: Dimensions MX 90 - 250

M	Unit	90	120	165	250	330	450	650	850	1100	1500	2000
A	mm	160	160	160	210	260	310	423	0	0	0	0
B	mm	541	541	601	601	601	676	686	786	786	866	866
C	mm	425	425	485	485	485	560	565	675	675	755	755
D	mm	431	431	500	500	500	592	592	691	691	806	806
E	mm	44	44	44	44	44	47	47	47	47	47	47
F	mm	0	0	0	0	293	423	667	607	847	847	1207
G	mm	409	459	459	559	659	789	1033	973	1213	1213	1573
H	mm	205	205	205	205	205	205	215	245	245	245	245
I _{min}	mm	582	582	634	634	539	607	607	681	681	767	767
J	mm	305	305	357	357	357	425	425	498	498	585	585
K	mm	298	298	358	358	358	440	440	525	525	625	625
L	mm	726	726	846	846	846	1010	1010	1170	1170	1330	1330
M	mm	440	490	490	590	690	820	1064	1004	1244	1244	1604
N	mm	295	345	345	445	545	675	919	859	1099	1099	1459
X1 d _a /d _i	mm	178/175	203/200	253/250	253/250	253/250	353/350	353/350	353/350	403/400	453/450	453/450
Y1 d _a /d _i	mm	182/179	207/204	257/254	257/254	257/254	357/354	357/354	357/354	407/404	457/454	457/454
X2/Y2	po	1	1	1	1	1	1	1¼	2	2	2½	2½
Y3 d _a	mm	25	25	25	25	25	32	32	32	32	32	32

TECHNICAL DATA Dimensions 330-2000

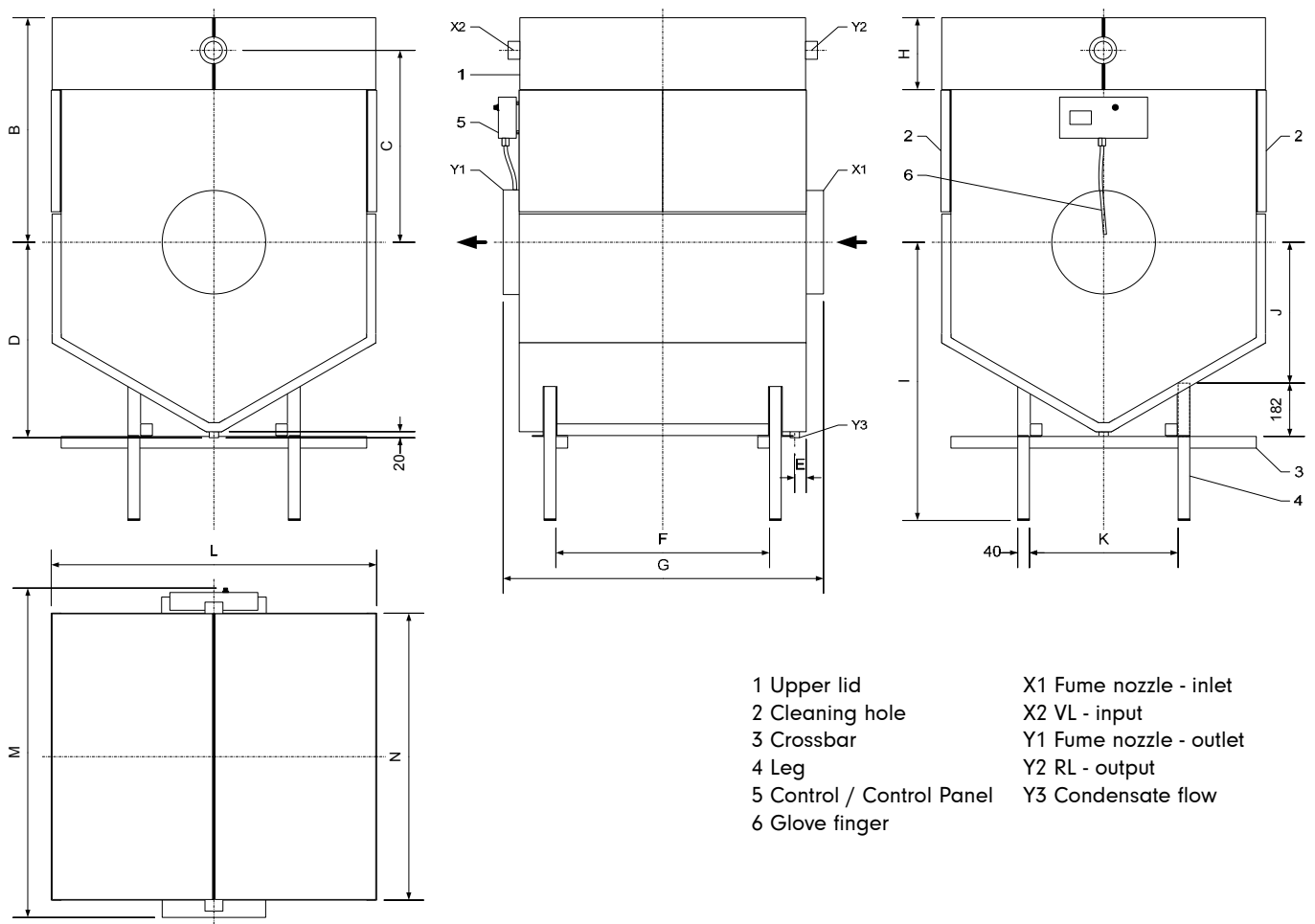


Figure 2: Dimensions MX 850 - 2000

MX	Unit	90	120	165	250	330	450	650	850	1100	1500	2000
Power	kW	90	120	165	250	330	450	650	85	1100	150	2000M
Flow	kg/h	153	204	281	425	561	765	1105	1445	1870	2550	3400Max
Max. Operating pressure	bar	6	6	6	6	6	6	6	6	6	6	6
Safety valve - pressure	bar	3	6	6	6	6	6	6	6	6	6	6
Boost. MX - RL 30°C / ÖE† *	kW	7.2	9.6	13.2	20.0	26.4	36.0	52.0	68.0	88.0	120.0	160.0
Boost. MX - RL 60°C / ÖE† *	kW	4.5	6.0	8.3	12.5	16.5	22.5	32.5	42.5	55.0	75.0	100.0
Boost. MX - RL 30°C / G	kW	11.3	15.0	20.6	31.3	41.3	56.3	81.3	106.3	137.5	187.5	250.0
Boost. MX - RL 60°C / G	kW	4.7	6.2	8.6	13.0	17.2	23.4	33.8	44.2	57.2	78.0	104.0
Δp flue gases - side G	mPa/(kg/h) ²	1.3	1.2	1.1	0.59	0.41	0.23	0.10	0.075	0.036	0.039	0.032
Pressure Loss	Pa	31	50	87	107	129	135	122	157	126	254	370
Δp - water side ‡	kPa/(m ³ /h) ²	10.9	6.26	7.14	3.31	1.98	1.77	0.815	1.15	0.654	0.695	0.394
Nominal volume flow of the water side	(m ³ /h)	1.2	1.5	2.1	3.1	4.1	4.9	7.1	9.3	12.0	15.3	19.3
Volume flow min. on the side some water	(m ³ /h)	0.6	0.8	1.1	1.6	2.1	2.8	4.1	5.3	6.9	9.3	12.4
Volume flow min. Topmeter	L/min	3.1	3.1	4.3	4.3	4.3	5.2	5.2	7.3	7.1	8.0	8.0
Volume on the water side	L	16	21	27	40	54	73	105	133	177	229	315
Weight with bodywork	kg	71	79	98	118	140	192	243	293	355	437	550
Weight without body	kg	50	56	70	86	105	141	182	221	272	338	431

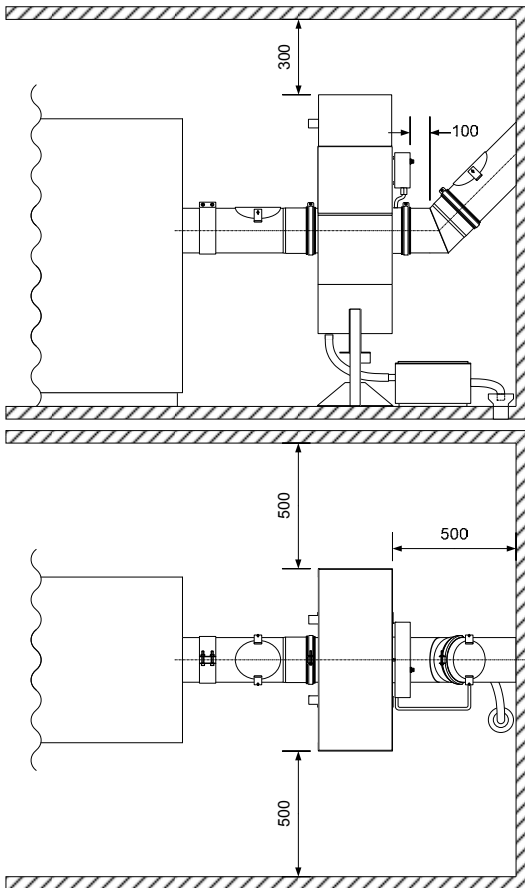


Figure 5: MX with gas fittings unit from straight combustion

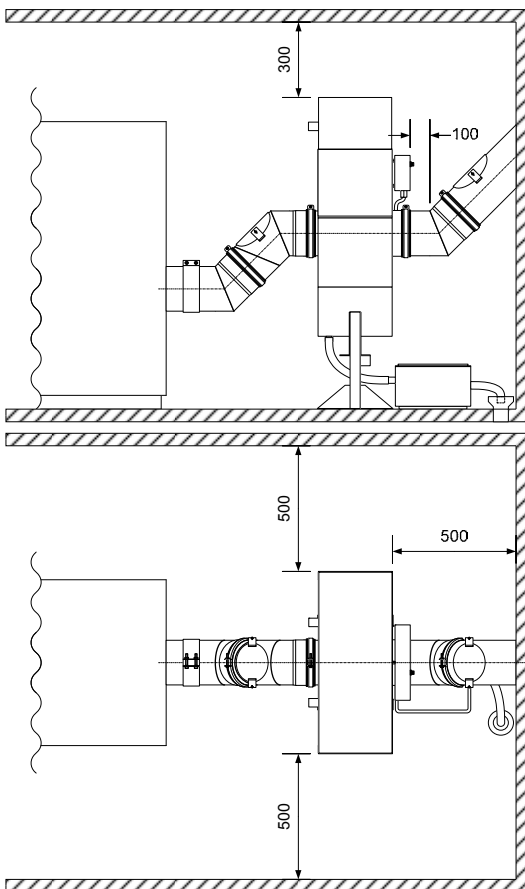


Figure 6: MX with gas fitting unit from offset combustion

INSTALLATION

HYDRAULICS

It is necessary to mount the MX unit in exact method according to the diagram (Annex A) in the heating system.

The lower the temperature of the secondary inlet in relation to the flue gas temperature, The more efficient the installation.

The MX terminal unit must be carefully located in relation to the flue terminal.

If not, the flow through the MX is not guaranteed.

To prevent the transmission of vibrations from MX to pipes, mounting of a vibration damper is advised.

ELECTRICAL CONNECTION

Please learn the connection information electrical service instructions from the "Control" or "Control Panel".

FLUE GAS DUCT

Each MX unit must be connected to a single flue terminal

The flue gas duct must be gastight and water-tight, suitable for over-pressure, and resistant to corrosion

Maximum temperatures –

- Boiler flue gases 250°C
- Secondary water 80°C
- Downstream of MX unit 90°C

It is recommended to erect flue gas ducts from PVDF high grade plastics

Slope of 50mm per metre is required on all condensate pipe runs

Joints made on all flue gas and condensate pipes must allow ease of run and no leaking.