

Flue gas condenser serie Excellent



Grote Esch 400
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Technical data		Type Condenser (single waterside circuit)														
		L6C	L12C	L18C	L24C	L30C	L36C	L42C	L48C	L60C	L72C	L84C	L96C	L108C	L120C	L140C
Boiler capacity	kW	600	1200	1800	2400	3000	3600	4200	4800	6000	7200	8400	9600	10800	12000	14000
Condenser capacity	kW	62	117	241	258	293	361	413	491	585	663	757	843	1033	1076	1162
VO (heating area)	m ²	56	99	141	188	235	283	339	367	452	528	660	707	778	934	1060
Watervolume (content)	ltr	45	65	90	105	120	145	160	170	200	225	270	290	310	370	410
Transportweight	kg	544	663	798	909	1056	1180	1351	1416	1634	1805	2117	2264	2434	2780	3184
Tranportdimension	L mm	765	881	881	997	1132	1132	1288	1346	1540	1540	1797	1797	1973	1973	2147
Tranportdimension	W mm	985	1085	1385	1385	1385	1585	1585	1585	1585	1785	1785	1885	1885	2185	2185
Tranportdimension (with exhaust hood)	H1 mm	2276	2281	2331	2421	2474	2576	2631	2631	2681	2681	2681	2766	2766	2766	2816
Tranportdimension (without exhaust hood)	H2 mm	1995	1995	2045	2045	2095	2095	2145	2145	2195	2195	2195	2230	2230	2230	2280
Watersided connections (PN6)		DN65	DN65	DN80	DN80	DN100	DN100	DN100	DN100	DN125	DN125	DN150	DN150	DN150	DN150	DN150
Safety valve connection inlet		3/4"	3/4"	3/4"	1"	1"	1"	2x 1"	2x 1"	2x 1"	2x 1"	2x1.1/4"	2x1.1/4"	2x1.1/4"	2x1.1/4"	4x 1"
Safety valve connection outlet		3/4"	3/4"	3/4"	1.1/4"	1.1/4"	1.1/4"	2x1.1/4"	2x1.1/4"	2x1.1/4"	2x1.1/4"	2x1.1/2"	2x1.1/2"	2x1.1/2"	2x1.1/2"	4x1.1/4"
Drain connection		1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"
Condensate bin overflow connection		1.1/2"	1.1/2"	1.1/2"	1.1/2"	1.1/2"	1.1/2"	1.1/2"	1.1/2"	1.1/2"	1.1/2"	1.1/2"	1.1/2"	3"	3"	3"
Chimney connection (Ø)	mm	200	300	350	450	450	500	550	600	650	700	710	800	850	950	950
Fluegas inlet connection (square)	mm	400	400	500	500	600	600	700	700	800	800	800	900	900	900	1000
Flue gas flow (volume)	Nm ³ /h	807	1614	2421	3228	4034	48414	5648	6455	8069	9683	11297	12910	14524	16138	18828
Fluegas inlet temperature	°C	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
Fluegas outlet temperature (at water inlet 35°)	°C	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46
Fluegas sided resistance	Pa	250	300	400	400	400	450	450	450	450	500	500	500	500	500	500
Fluegas sided resistance	mm wk	25	30	40	40	40	45	45	45	45	50	50	50	50	50	50
Max water temperature	°C	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Max water design pressure	bar(g)	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Water flow (volume)	m ³ /h	12	17	28	30	34	42	48	57	68	77	88	98	120	125	135
Water inlet temperature	°C	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
Water outlet temperature	°C	41	43	45	45	45	45	45	45	45	45	45	45	45	45	45
Water sided resistance	kPa	3,8	4	4,4	4,7	5,2	5,3	5,4	5,7	6	6	6,7	7	7	8	9

Including delivery (per condenser) of:
 1x Pressure switch for flue gas box, incl stainless steel 90° elbow
 1x Limit switch for flue gas box diverter valve
 1x Max. Thermostat for water temperature
 2x Thermometer Ø100 mm, 0-200°C (for flue gas in/out)
 2x Thermometer Ø60 mm, 0-120°C (for water inlet/outlet)
 Safety valve(s), outlet connection BSP female
 Ball valve (drain) 1" outlet connection BSP female
 Pipe Ø60 for condensate discharge
 Supports for condenser (100x100 mm)
 Condensate bin Aluminium, overflow connection BSP male