

KAIMAN

KAIMAN thermoconvectors technical manual

GB



CE

COMPANY
WITH QUALITY SYSTEM
CERTIFIED BY DNV
=ISO 9001/2000=

 **Galletti**
AIR CONDITIONING

INDEX

1	Main features	2
2	Main components	2
3	Accessories	2
4	Rated technical data	3
5	Heating outputs	3 - 15
6	Overall dimensions	16

OPERATING LIMITS

- > thermal fluid: water
- > water temperature: from 5°C to 95°C
- > maximum operating temperature: 10 bar
- > air temperature: from 5°C to 43 °C

1 MAIN FEATURES

On the occasion of its hundredth year Galletti presents KAIMAN, an innovative indoor unit which revives the tradition of convective heating for which it has been a market leader since the beginning of the Sixties.

Over 40 YEARS OF EXPERIENCE and new technologies in the production of heat exchangers have enabled it to develop a product that is up to date with the new forms of installation and makes use of the principle of natural air convection.

The principle of NATURAL AIR CONVECTION enables the room to be heated more quickly compared to traditional static convectors.

The correct temperature of the water in the system is also reached extremely quickly thanks to the low quantity of water in the heat exchanger.

The heat exchanger has also been designed to work at LOW WATER TEMPERATURES, typically produced by condensation boilers or heat pumps. The surface temperature of KAIMAN, therefore, never exceeds 40°C, eliminating the risk of scorching.

The air outlet temperature of KAIMAN is such as to reduce wall blackening above the unit to a minimum.

The innovative rounded design of the cabinet also makes KAIMAN safe for children.

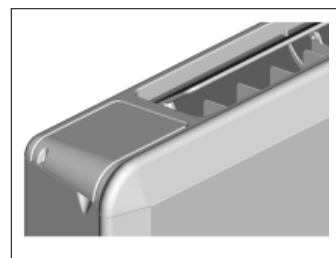
With KAIMAN the regulation of the room temperature can be carried out by means of the air outlet flap which, when set in the closed position, almost completely annuls the heat exchange interrupting the effect of natural convection.

If required KAIMAN can be fitted with an ON/OFF valve that regulates the room temperature and is connected to an interior thermostat which in turn can be installed on the wall or unit. A microswitch located on the air outlet flap interrupts the water flow in the heat exchanger when the flap is completely closed.

With the KAIMAN static convectors it is also possible to guarantee a high standard of quality of the air by using the BIOXIGEN technology, an air sanitification and ionization system.

2 MAIN COMPONENTS

- > CABINET with new rounded design made up of a thick sheet steel panel; side frames and air outlet grille made of ABS. The side doors enable access to be gained to the technical compartments.



- > AIR OUTLET GRILLE with 2-row fins with air outlet heat flow regulation flap made of ABS.
- > The ABS used is of the UV stabilised type so that the colour is not altered with the passing of time.
- > INDOOR UNIT made of galvanized sheet steel of suitable thickness and particularly shaped so as to increase natural air convection (chimney effect). The unit is supplied with 4 screw anchors for wall installation.
- > HEAT EXCHANGER with high efficiency rate, made of copper tube and aluminium fins that are blocked to the tubes by means of mechanical expansion. It is equipped with brass manifolds and air vent valve and is available in the 4 or 6 row version. The wide fin pitch optimises the chimney effect and simplifies the cleaning of the exchanger. The heat exchanger, which is usually supplied with water connections mounted on the left, can be rotated 180° during installation.

3 ACCESSORIES

- > FEET so as to hide the tubes if they lead out from the floor.
- > Air outlet grille with MICROSWITCH on flap.
- > 2-way ON-OFF VALVE to regulate the room temperature
- > Indoor THERMOSTAT.
- > BIOXIGEN air purifying system

4 RATED TECHNICAL DATA

KAIMAN		K 14	K 16	K 24	K 26	K 34	K 36
Heating output	kW	1,08	1,22	1,40	1,60	1,73	1,99
Water flow	l/h	92	105	120	138	149	171
Water pressure drop	kPa	0,2	0,2	0,3	0,3	0,5	0,4
Heat exchanger number fo rows		4	6	4	6	4	6
Heat exchanger water content	dm ³	0,74	1,16	0,98	1,51	1,22	1,87
Female gas water connection	inches	1/2	1/2	1/2	1/2	1/2	1/2
Exponent		1,32	1,29	1,31	1,28	1,31	1,28
Weight	kg	14,5	15	16,5	17	20	21

Air temperature 20°C
 Water inlet temperature 75°C
 Water outlet temperature 65°C

5 HEATING OUTPUT

To find the heating capacity of kaiman thermoconvectors go to page 4 to 15.

If different conditions are requested is it possible to use the following formula:

$$P(\Delta T_{WA}) = P_0 \times \left(\frac{\Delta T_{WA}}{50} \right)^n$$

where:

P rated heating output, referred to ΔT_{WA} 50°C

P₀ heating output at desired condition

n exponent, as reported in the "RATED TECHNICAL DATA" table

ΔT_{WA} difference between average waster temperature ($T_{W,IN}$, $T_{W,OUT}$) and air temperature T_{AIR} :

$$\Delta T_{WA} = \frac{(T_{W,IN} + T_{W,OUT})}{2} - T_{AIR}$$

5 HEATING OUTPUT

KAIMAN K 14

TA₁ Air temperature
TW₁ Water inlet temperature
TW₂ Water outlet temperature
PT Heating output
Qw Water flow
ΔP Water pressure drop

TA ₁				16												18											
TW ₁ (°C)				35	40	45	50	55	60	65	70	75	80	85	90	35	40	45	50	55	60	65	70	75	80	85	90
TW ₂ (°C)	30	PT	Watt	249	300	353	408	465	524	584	646	710	774	841	908	179	225	274	327	382	440	500	563	628	695	764	835
		QW	l/h	43	26	20	18	16	15	14	14	14	13	13	13	31	19	16	14	13	13	12	12	12	12	12	12
		ΔP	Pa	43	16	10	7	6	5	5	5	4	4	4	4	22	9	6	5	4	4	4	3	3	3	3	3
	35	PT	Watt		353	408	465	524	584	646	710	774	841	908	977		274	327	382	440	500	563	628	695	764	835	908
		QW	l/h		61	35	27	23	20	19	17	17	16	16	15		47	28	22	19	17	16	15	15	15	14	14
		ΔP	Pa		87	29	17	12	10	8	7	7	6	6	6		53	19	11	8	7	6	6	5	5	5	5
	40	PT	Watt			465	524	584	646	710	774	841	908	977	1047			382	440	500	563	628	695	764	835	908	983
		QW	l/h			80	45	33	28	24	22	21	20	19	18			66	38	29	24	22	20	19	18	17	17
		ΔP	Pa			151	48	27	18	14	12	10	9	8	8			102	34	19	14	11	9	8	8	7	7
	45	PT	Watt				584	646	710	774	841	908	977	1047	1118				500	563	628	695	764	835	908	983	1059
		QW	l/h				100	56	41	33	29	26	24	23	21				86	48	36	30	26	24	22	21	20
		ΔP	Pa				239	73	39	26	20	16	14	12	11				175	55	31	21	16	14	12	11	10
	50	PT	Watt					710	774	841	908	977	1047	1118	1190					628	695	764	835	908	983	1059	1138
		QW	l/h					122	67	48	39	34	30	27	26					108	60	44	36	31	28	26	24
		ΔP	Pa					352	105	55	36	27	21	18	15					275	84	45	30	23	19	16	14
	55	PT	Watt						841	908	977	1047	1118	1190	1263						764	835	908	983	1059	1138	1218
		QW	l/h						145	78	56	45	38	34	31						131	72	52	42	36	33	30
		ΔP	Pa						494	144	74	48	35	27	23						408	122	64	42	31	25	21
	60	PT	Watt							977	1047	1118	1190	1263	1337							908	983	1059	1138	1218	1300
		QW	l/h							168	90	64	51	43	38							156	85	61	49	42	37
		ΔP	Pa							667	191	97	62	45	35							576	169	87	57	41	33
	65	PT	Watt								1118	1190	1263	1337	1413								1059	1138	1218	1300	1383
		QW	l/h								192	102	72	58	49								182	98	70	56	48
		ΔP	Pa								873	247	124	78	56								785	226	115	74	54
	70	PT	Watt									1263	1337	1413	1489									1218	1300	1383	1468
		QW	l/h									217	115	81	64									210	112	79	63
		ΔP	Pa									1115	313	155	97									1037	295	149	94
	75	PT	Watt										1413	1489	1566										1383	1468	1555
		QW	l/h										243	128	90										238	126	89
		ΔP	Pa										1395	388	191										1338	377	188
	80	PT	Watt											1566	1645											1555	1643
		QW	l/h											269	141											267	141
		ΔP	Pa											1715	473											1691	472
	85	PT	Watt												1724												1733
		QW	l/h												296												298
		ΔP	Pa												2077												2099

5 HEATING OUTPUT

KAIMAN K 14

TA ₁	Air temperature
TW ₁	Water inlet temperature
TW ₂	Water outlet temperature
PT	Heating output
Qw	Water flow
ΔP	Water pressure drop

TA ₁				20												22											
TW ₁ (°C)				35	40	45	50	55	60	65	70	75	80	85	90	35	40	45	50	55	60	65	70	75	80	85	90
TW ₂ (°C)	30	PT	Watt	172	219	269	321	375	431	488	548	609	671	735	801	137	182	229	279	331	386	442	500	560	621	684	748
		QW	l/h	30	19	15	14	13	12	12	12	12	12	11	11	24	16	13	12	11	11	11	11	11	11	11	11
		ΔP	Pa	21	8	6	4	4	4	3	3	3	3	3	3	13	6	4	3	3	3	3	3	3	3	3	3
	35	PT	Watt		269	321	375	431	488	548	609	671	735	801	867		229	279	331	386	442	500	560	621	684	748	814
		QW	l/h		46	28	21	19	17	16	15	14	14	14	14		39	24	19	17	15	14	14	13	13	13	13
		ΔP	Pa		51	18	11	8	7	6	5	5	5	4	4		37	14	9	6	5	5	4	4	4	4	4
	40	PT	Watt			375	431	488	548	609	671	735	801	867	935			331	386	442	500	560	621	684	748	814	881
		QW	l/h			64	37	28	24	21	19	18	17	17	16			57	33	25	22	19	18	17	16	16	15
		ΔP	Pa			98	32	19	13	10	9	8	7	6	6			77	26	15	11	9	7	7	6	6	5
	45	PT	Watt				488	548	609	671	735	801	867	935	1005				442	500	560	621	684	748	814	881	949
		QW	l/h				84	47	35	29	25	23	21	20	19				76	43	32	27	24	21	20	19	18
		ΔP	Pa				167	52	29	20	15	12	11	10	9				137	44	24	17	13	11	9	8	8
	50	PT	Watt					609	671	735	801	867	935	1005	1075					560	621	684	748	814	881	949	1019
		QW	l/h					105	58	42	34	30	27	25	23					96	53	39	32	28	25	23	22
		ΔP	Pa					259	79	42	28	21	17	14	13					219	67	36	24	19	15	13	11
	55	PT	Watt						735	801	867	935	1005	1075	1147						684	748	814	881	949	1019	1089
		QW	l/h						126	69	50	40	35	31	28						118	64	47	38	33	29	27
		ΔP	Pa						378	112	58	38	28	22	19						327	98	51	34	25	20	17
	60	PT	Watt							867	935	1005	1075	1147	1219							814	881	949	1019	1089	1161
		QW	l/h							149	80	58	46	39	35							140	76	54	44	37	33
		ΔP	Pa							526	153	78	50	37	29							463	136	70	45	33	26
	65	PT	Watt								1005	1075	1147	1219	1293								949	1019	1089	1161	1234
		QW	l/h								173	92	66	52	44								163	88	62	50	42
		ΔP	Pa								706	202	102	65	47								630	181	92	59	43
	70	PT	Watt									1147	1219	1293	1368									1089	1161	1234	1308
		QW	l/h									197	105	74	59									187	100	71	56
		ΔP	Pa									919	260	130	82									829	236	118	75
	75	PT	Watt										1293	1368	1443										1234	1308	1383
		QW	l/h										222	118	83										212	112	79
		ΔP	Pa										1168	327	162										1064	299	148
	80	PT	Watt											1443	1520											1383	1458
		QW	l/h											248	131											238	125
		ΔP	Pa											1456	404											1336	372
	85	PT	Watt												1598												1535
		QW	l/h												275												264
		ΔP	Pa												1784												1648

5 HEATING OUTPUT

KAIMAN K 16

TA ₁	Air temperature
TW ₁	Water inlet temperature
TW ₂	Water outlet temperature
PT	Heating output
Qw	Water flow
ΔP	Water pressure drop

TA ₁				16											18												
TW ₁ (°C)				35	40	45	50	55	60	65	70	75	80	85	90	35	40	45	50	55	60	65	70	75	80	85	90
TW ₂ (°C)	30	PT	Watt	292	350	411	473	538	604	672	742	813	885	959	1035	247	303	362	423	486	551	618	686	756	827	900	974
		QW	l/h	50	30	24	20	19	17	17	16	16	15	15	15	42	26	21	18	17	16	15	15	14	14	14	14
		ΔP	Pa	46	16	10	8	6	5	5	5	4	4	4	4	33	12	8	6	5	5	4	4	4	4	4	4
	35	PT	Watt		411	473	538	604	672	742	813	885	959	1035	1111		362	423	486	551	618	686	756	827	900	974	1050
		QW	l/h		71	41	31	26	23	21	20	19	18	18	17		62	36	28	24	21	20	19	18	17	17	16
		ΔP	Pa		91	30	17	12	10	8	7	7	6	6	5		70	24	14	10	8	7	6	6	5	5	5
	40	PT	Watt			538	604	672	742	813	885	959	1035	1111	1189			486	551	618	686	756	827	900	974	1050	1126
		QW	l/h			93	52	39	32	28	25	24	22	21	20			84	47	35	29	26	24	22	21	20	19
		ΔP	Pa			155	49	27	18	14	12	10	9	8	8			127	41	23	16	12	10	9	8	7	7
	45	PT	Watt				672	742	813	885	959	1035	1111	1189	1267				618	686	756	827	900	974	1050	1126	1204
		QW	l/h				116	64	47	38	33	30	27	26	24				106	59	43	36	31	28	26	24	23
		ΔP	Pa				243	74	39	26	20	16	14	12	11				205	63	34	23	17	14	12	11	10
	50	PT	Watt					813	885	959	1035	1111	1189	1267	1347					756	827	900	974	1050	1126	1204	1283
		QW	l/h					140	76	55	44	38	34	31	29					130	71	52	42	36	32	30	28
		ΔP	Pa					355	105	55	36	26	21	18	15					307	92	48	32	24	19	16	14
	55	PT	Watt						959	1035	1111	1189	1267	1347	1428						900	974	1050	1126	1204	1283	1363
		QW	l/h						165	89	64	51	44	39	35						155	84	60	48	41	37	34
		ΔP	Pa						494	144	74	47	34	27	22						435	127	66	43	31	25	20
	60	PT	Watt							1111	1189	1267	1347	1428	1510							1050	1126	1204	1283	1363	1445
		QW	l/h							191	102	73	58	49	43							181	97	69	55	47	41
		ΔP	Pa							662	190	96	61	44	34							591	170	86	55	40	31
	65	PT	Watt								1267	1347	1428	1510	1593								1204	1283	1363	1445	1527
		QW	l/h								218	116	82	65	55								207	110	78	62	53
		ΔP	Pa								862	244	122	77	55								778	221	111	70	50
	70	PT	Watt									1428	1510	1593	1677									1363	1445	1527	1610
		QW	l/h									246	130	91	72									235	124	88	69
		ΔP	Pa									1095	306	151	94									998	280	139	87
	75	PT	Watt										1593	1677	1762										1527	1610	1694
		QW	l/h										274	144	101										263	138	97
		ΔP	Pa										1363	378	185										1251	348	171
	80	PT	Watt											1762	1848											1694	1780
		QW	l/h											303	159											291	153
		ΔP	Pa											1667	458											1541	425
	85	PT	Watt												1935												1866
		QW	l/h												333												321
		ΔP	Pa												2010												1868

5 HEATING OUTPUT

KAIMAN K 16

TA₁ Air temperature
TW₁ Water inlet temperature
TW₂ Water outlet temperature
PT Heating output
Qw Water flow
ΔP Water pressure drop

TA ₁				20												22											
TW ₁ (°C)				35	40	45	50	55	60	65	70	75	80	85	90	35	40	45	50	55	60	65	70	75	80	85	90
TW ₂ (°C)	30	PT	Watt	204	258	315	374	436	499	564	631	700	770	842	915	163	215	269	327	386	448	512	577	645	714	784	856
		QW	l/h	35	22	18	16	15	14	14	14	13	13	13	13	28	18	15	14	13	13	13	12	12	12	12	12
		ΔP	Pa	22	9	6	5	4	4	3	3	3	3	3	3	14	6	4	4	3	3	3	3	3	3	3	3
	35	PT	Watt		315	374	436	499	564	631	700	770	842	915	989		269	327	386	448	512	577	645	714	784	856	930
		QW	l/h		54	32	25	21	19	18	17	17	16	16	15		46	28	22	19	18	17	16	15	15	15	15
		ΔP	Pa		53	19	11	8	7	6	5	5	5	4	4		39	14	9	7	6	5	5	4	4	4	4
	40	PT	Watt			436	499	564	631	700	770	842	915	989	1065			386	448	512	577	645	714	784	856	930	1004
		QW	l/h			75	43	32	27	24	22	21	20	19	18			66	39	29	25	22	20	19	18	18	17
		ΔP	Pa			102	33	19	13	11	9	8	7	6	6			80	27	16	11	9	8	7	6	6	5
	45	PT	Watt				564	631	700	770	842	915	989	1065	1142				512	577	645	714	784	856	930	1004	1080
		QW	l/h				97	54	40	33	29	26	24	23	22				88	50	37	31	27	25	23	22	21
		ΔP	Pa				171	53	29	20	15	12	11	10	9				141	45	25	17	13	11	9	8	8
	50	PT	Watt					700	770	842	915	989	1065	1142	1220					645	714	784	856	930	1004	1080	1157
		QW	l/h					120	66	48	39	34	31	28	26					111	61	45	37	32	29	27	25
		ΔP	Pa					263	80	42	28	21	17	14	12					223	68	37	25	19	15	13	11
	55	PT	Watt						842	915	989	1065	1142	1220	1299						784	856	930	1004	1080	1157	1236
		QW	l/h						145	79	57	46	39	35	32						135	74	53	43	37	33	30
		ΔP	Pa						380	112	58	38	28	22	18						330	98	52	34	25	20	17
	60	PT	Watt							989	1065	1142	1220	1299	1380							930	1004	1080	1157	1236	1315
		QW	l/h							170	92	65	52	45	40							160	86	62	50	43	38
		ΔP	Pa							525	152	78	50	36	28							464	135	70	45	33	26
	65	PT	Watt								1142	1220	1299	1380	1461								1080	1157	1236	1315	1396
		QW	l/h								196	105	74	59	50								186	100	71	57	48
		ΔP	Pa								700	200	101	64	46								626	180	91	58	42
	70	PT	Watt									1299	1380	1461	1543									1236	1315	1396	1477
		QW	l/h									223	119	84	66									213	113	80	64
		ΔP	Pa									906	255	127	80									820	232	116	73
	75	PT	Watt										1461	1543	1627										1396	1477	1560
		QW	l/h										251	133	93										240	127	89
		ΔP	Pa										1146	320	158										1046	293	145
	80	PT	Watt											1627	1711											1560	1644
		QW	l/h											280	147											268	141
		ΔP	Pa											1421	393											1306	363
	85	PT	Watt												1797												1728
		QW	l/h												309												297
		ΔP	Pa												1733												1603

5 HEATING OUTPUT

KAIMAN K 24

TA₁	Air temperature
TW₁	Water inlet temperature
TW₂	Water outlet temperature
PT	Heating output
Qw	Water flow
ΔP	Water pressure drop

TA ₁				16											18												
TW ₁ (°C)				35	40	45	50	55	60	65	70	75	80	85	90	35	40	45	50	55	60	65	70	75	80	85	90
TW ₂ (°C)	30	PT	Watt	327	394	463	534	609	685	763	844	926	1010	1095	1182	276	340	407	477	549	624	700	779	860	942	1027	1113
		QW	l/h	56	34	27	23	21	20	19	18	18	17	17	17	48	29	23	21	19	18	17	17	16	16	16	16
		ΔP	Pa	66	24	15	11	9	8	7	7	7	6	6	6	47	18	11	9	7	7	6	6	6	5	5	5
	35	PT	Watt		463	534	609	685	763	844	926	1010	1095	1182	1271		407	477	549	624	700	779	860	942	1027	1113	1200
		QW	l/h		80	46	35	29	26	24	23	22	21	20	20		70	41	31	27	24	22	21	20	20	19	19
		ΔP	Pa		132	44	25	18	14	12	11	10	9	9	8		102	35	21	15	12	10	9	9	8	8	7
	40	PT	Watt			609	685	763	844	926	1010	1095	1182	1271	1361			549	624	700	779	860	942	1027	1113	1200	1289
		QW	l/h			105	59	44	36	32	29	27	25	24	23			94	54	40	34	30	27	25	24	23	22
		ΔP	Pa			228	72	40	27	21	17	15	13	12	11			186	60	34	23	18	15	13	12	11	10
	45	PT	Watt				763	844	926	1010	1095	1182	1271	1361	1453			700	779	860	942	1027	1113	1200	1289	1380	
		QW	l/h				131	73	53	43	38	34	31	29	28			120	67	49	41	35	32	29	28	26	
		ΔP	Pa				359	110	59	39	30	24	20	18	16			302	94	51	34	26	21	18	16	14	
	50	PT	Watt					926	1010	1095	1182	1271	1361	1453	1546					860	942	1027	1113	1200	1289	1380	1472
		QW	l/h					159	87	63	51	44	39	36	33					148	81	59	48	41	37	34	32
		ΔP	Pa					528	157	82	64	49	42	37	33					456	137	72	48	36	28	24	21
	55	PT	Watt						1095	1182	1271	1361	1453	1546	1641						1027	1113	1200	1289	1380	1472	1565
		QW	l/h						188	102	74	61	53	46	41						177	96	69	55	47	42	38
		ΔP	Pa						739	215	111	71	52	41	34						650	191	99	64	47	37	31
	60	PT	Watt							1271	1361	1453	1546	1641	1736							1200	1289	1380	1472	1565	1660
		QW	l/h							219	117	83	66	56	50							206	111	79	63	54	48
		ΔP	Pa							996	286	145	92	66	52							888	256	130	83	60	47
	65	PT	Watt								1453	1546	1641	1736	1834								1380	1472	1565	1660	1756
		QW	l/h								250	133	94	75	63								237	127	90	71	60
		ΔP	Pa								1302	368	184	116	83								1173	334	168	106	76
	70	PT	Watt									1641	1736	1834	1932									1565	1660	1756	1853
		QW	l/h									282	149	105	83									269	143	101	80
		ΔP	Pa									1659	465	230	144									1510	424	211	132
	75	PT	Watt										1834	1932	2031										1756	1853	1952
		QW	l/h										315	166	116										302	159	112
		ΔP	Pa										2072	575	283										1900	529	261
	80	PT	Watt											2031	2132											1952	2051
		QW	l/h											349	183											336	176
		ΔP	Pa											2543	700											2347	648
	85	PT	Watt												2234												2152
		QW	l/h												384												370
		ΔP	Pa												3075												2854

5 HEATING OUTPUT

KAIMAN K 24

T_{a1}	Air temperature
T_{w1}	Water inlet temperature
T_{w2}	Water outlet temperature
PT	Heating output
Q_w	Water flow
ΔP	Water pressure drop

T_{a1}			20												22											
$T_{w1} (^{\circ}C)$			35	40	45	50	55	60	65	70	75	80	85	90	35	40	45	50	55	60	65	70	75	80	85	90
$T_{w2} (^{\circ}C)$	30	PT Watt	227	289	353	421	491	564	639	716	795	876	959	1044	181	239	301	367	435	505	579	654	732	811	893	976
		QW l/h	39	25	20	18	17	16	16	15	15	15	15	15	31	21	17	16	15	14	14	14	14	14	14	14
		ΔP Pa	32	13	9	7	6	5	5	5	5	5	5	5	20	9	6	5	5	4	4	4	4	4	4	4
	35	PT Watt		353	421	491	564	639	716	795	876	959	1044	1130		301	367	435	505	579	654	732	811	893	976	1061
		QW l/h		61	36	28	24	22	21	20	19	18	18	18		52	32	25	22	20	19	18	17	17	17	17
		ΔP Pa		77	27	17	12	10	9	8	7	7	7	7		56	21	13	10	8	7	7	6	6	6	6
	40	PT Watt			491	564	639	716	795	876	959	1044	1130	1218			435	505	579	654	732	811	893	976	1061	1147
		QW l/h			84	48	37	31	27	25	24	22	22	21			75	43	33	28	25	23	22	21	20	20
		ΔP Pa			149	49	28	20	16	13	12	10	10	9			116	39	23	16	13	11	10	9	9	8
	45	PT Watt				639	716	795	876	959	1044	1130	1218	1307				579	654	732	811	893	976	1061	1147	1236
		QW l/h				110	62	46	38	33	30	28	26	25				100	56	42	35	31	28	26	25	24
		ΔP Pa				252	79	43	30	23	19	16	14	13				206	66	37	25	20	16	14	13	12
	50	PT Watt					795	876	959	1044	1130	1218	1307	1398					732	811	893	976	1061	1147	1236	1325
		QW l/h					137	75	55	45	39	35	32	30					126	70	51	42	36	33	30	28
		ΔP Pa					390	118	63	42	31	25	21	19					330	101	55	37	28	23	19	17
	55	PT Watt						959	1044	1130	1218	1307	1398	1490						893	976	1061	1147	1236	1325	1416
		QW l/h						165	90	65	52	44	38	33						154	84	61	49	43	38	35
		ΔP Pa						567	168	87	57	42	33	28						491	147	77	51	38	30	25
	60	PT Watt							1130	1218	1307	1398	1490	1584							1061	1147	1236	1325	1416	1509
		QW l/h							194	105	75	60	51	45							182	99	71	57	49	43
		ΔP Pa							787	228	117	75	55	43							694	203	105	68	49	39
	65	PT Watt								1307	1398	1490	1584	1679								1236	1325	1416	1509	1603
		QW l/h								225	120	85	68	58								213	114	81	65	55
		ΔP Pa								1053	301	152	97	69								941	271	137	88	63
	70	PT Watt									1490	1584	1679	1775									1416	1509	1603	1698
		QW l/h									256	136	96	76									244	130	92	73
		ΔP Pa									1369	387	193	121									1236	351	176	111
	75	PT Watt										1679	1775	1873										1603	1698	1795
		QW l/h										289	153	107										276	146	103
		ΔP Pa										1737	486	240										1583	444	221
	80	PT Watt											1873	1971											1795	1892
		QW l/h											322	170											309	163
		ΔP Pa											2161	599											1985	552
	85	PT Watt												2071												1991
		QW l/h												356												343
		ΔP Pa												2644												2444

5 HEATING OUTPUT

KAIMAN K 26

TA ₁	Air temperature
TW ₁	Water inlet temperature
TW ₂	Water outlet temperature
PT	Heating output
Qw	Water flow
ΔP	Water pressure drop

TA ₁				16												18												
TW ₁ (°C)				35	40	45	50	55	60	65	70	75	80	85	90	35	40	45	50	55	60	65	70	75	80	85	90	
TW ₂ (°C)	30	PT	Watt	387	464	543	625	710	797	886	977	1069	1164	1260	1358	328	402	479	559	642	727	814	904	995	1088	1183	1280	
		QW	l/h	67	40	31	27	24	23	22	21	20	20	20	19	56	35	27	24	22	21	20	19	19	19	19	18	
		ΔP	Pa	70	25	15	11	9	8	7	7	7	6	6	6	50	19	12	9	8	7	6	6	6	6	5	5	
	35	PT	Watt		543	625	710	797	886	977	1069	1164	1260	1358	1458		479	559	642	727	814	904	995	1088	1183	1280	1378	
		QW	l/h		93	54	41	34	30	28	26	25	24	23	23		82	48	37	31	28	26	24	23	23	22	22	
		ΔP	Pa		138	46	26	18	15	12	11	10	9	9	8		107	36	21	15	12	11	9	9	8	8	7	
	40	PT	Watt			710	797	886	977	1069	1164	1260	1358	1458	1559			642	727	814	904	995	1088	1183	1280	1378	1478	
		QW	l/h			122	69	51	42	37	33	31	29	28	27			110	63	47	39	34	31	29	28	26	25	
		ΔP	Pa			235	74	41	28	21	18	15	13	12	11			192	62	34	24	18	15	13	12	11	10	
	45	PT	Watt				886	977	1069	1164	1260	1358	1458	1559	1662				814	904	995	1088	1183	1280	1378	1478	1580	
		QW	l/h				152	84	61	50	43	39	36	34	32				140	78	57	47	41	37	34	32	30	
		ΔP	Pa				366	111	59	39	30	24	20	18	16				309	95	51	34	26	21	18	16	14	
	50	PT	Watt					1069	1164	1260	1358	1458	1559	1662	1766					995	1088	1183	1280	1378	1478	1580	1682	
		QW	l/h					184	100	72	58	50	45	41	38					171	94	68	55	47	42	39	36	
		ΔP	Pa					533	158	82	54	40	31	26	23					461	138	73	48	35	28	24	21	
	55	PT	Watt						1260	1358	1458	1559	1662	1766	1871						1183	1280	1378	1478	1580	1682	1787	
		QW	l/h						217	117	84	67	57	51	46						204	110	79	64	54	48	44	
		ΔP	Pa						740	215	110	71	51	40	33						653	191	98	64	47	37	30	
	60	PT	Watt							1458	1559	1662	1766	1871	1978							1378	1478	1580	1682	1787	1892	
		QW	l/h							251	134	95	76	64	57							237	127	91	72	61	54	
		ΔP	Pa							991	283	143	91	65	51							885	255	129	82	60	46	
	65	PT	Watt								1662	1766	1871	1978	2085									1580	1682	1787	1892	1999
		QW	l/h								286	152	107	85	72									272	145	102	81	69
		ΔP	Pa								1287	363	181	114	81									1163	330	165	104	74
	70	PT	Watt									1871	1978	2085	2195										1787	1892	1999	2107
		QW	l/h									322	170	120	94										307	163	115	91
		ΔP	Pa									1631	456	225	140										1488	417	207	129
	75	PT	Watt										2085	2195	2305											1999	2107	2217
		QW	l/h										359	189	132											344	181	127
		ΔP	Pa										2027	561	275											1862	517	254
	80	PT	Watt											2305	2416												2217	2327
		QW	l/h											396	208												381	200
		ΔP	Pa											2476	680												2290	631
	85	PT	Watt												2529													2439
		QW	l/h												435													419
		ΔP	Pa												2981													2772

5 HEATING OUTPUT

KAIMAN K 26

TA_1	Air temperature
TW_1	Water inlet temperature
TW_2	Water outlet temperature
PT	Heating output
Q_w	Water flow
ΔP	Water pressure drop

TA_1			20												22											
$TW_1(^{\circ}C)$			35	40	45	50	55	60	65	70	75	80	85	90	35	40	45	50	55	60	65	70	75	80	85	90
$TW_2(^{\circ}C)$	30	PT Watt	271	343	417	495	576	659	744	832	922	1014	1107	1202	217	285	357	433	511	592	676	762	850	940	1032	1126
		QW l/h	47	29	24	21	20	19	18	18	18	17	17	17	37	25	20	19	18	17	17	16	16	16	16	16
		ΔP Pa	34	14	9	7	6	6	5	5	5	5	5	5	22	9	7	5	5	5	4	4	4	4	4	4
	35	PT Watt		417	495	576	659	744	832	922	1014	1107	1202	1299		357	433	511	592	676	762	850	940	1032	1126	1222
		QW l/h		72	43	33	28	26	24	23	22	21	21	20		61	37	29	25	23	22	21	20	20	19	19
		ΔP Pa		81	29	17	13	10	9	8	7	7	7	7		60	22	14	10	9	8	7	6	6	6	6
	40	PT Watt			576	659	744	832	922	1014	1107	1202	1299	1398			511	592	676	762	850	940	1032	1126	1222	1319
		QW l/h			99	57	43	36	32	29	27	26	25	24			88	51	39	33	29	27	25	24	23	23
		ΔP Pa			154	51	29	20	16	13	12	11	10	9			122	41	24	17	13	11	10	9	9	8
	45	PT Watt				744	832	922	1014	1107	1202	1299	1398	1498				676	762	850	940	1032	1126	1222	1319	1418
		QW l/h				128	72	53	44	38	34	32	30	29				116	66	49	40	36	32	30	28	27
		ΔP Pa				258	81	44	30	23	19	16	14	13				213	68	37	26	20	16	14	13	12
	50	PT Watt					922	1014	1107	1202	1299	1398	1498	1600					850	940	1032	1126	1222	1319	1418	1519
		QW l/h					159	87	63	52	45	40	37	34					146	81	59	48	42	38	35	33
		ΔP Pa					396	120	63	42	31	25	21	19					337	103	55	37	28	23	19	17
	55	PT Watt						1107	1202	1299	1398	1498	1600	1703						1032	1126	1222	1319	1418	1519	1621
		QW l/h						190	103	75	60	52	46	42						178	97	70	57	49	44	40
		ΔP Pa						571	168	87	57	42	33	28						496	148	77	51	37	30	25
	60	PT Watt							1299	1398	1498	1600	1703	1808							1222	1319	1418	1519	1621	1724
		QW l/h							224	120	86	69	59	52							210	113	81	65	56	49
		ΔP Pa							787	228	116	75	54	42							696	203	104	67	49	38
	65	PT Watt								1498	1600	1703	1808	1913								1418	1519	1621	1724	1829
		QW l/h								258	138	98	78	66								244	131	93	74	63
		ΔP Pa								1046	298	150	95	68								937	269	136	87	62
	70	PT Watt									1703	1808	1913	2021									1621	1724	1829	1935
		QW l/h									293	155	110	87									279	148	105	83
		ΔP Pa									1352	381	190	119									1224	346	173	109
	75	PT Watt										1913	2021	2129										1829	1935	2042
		QW l/h										329	174	122										315	166	117
		ΔP Pa										1706	476	235										1558	436	216
	80	PT Watt											2129	2239											2042	2151
		QW l/h											366	193											351	185
		ΔP Pa											2112	584											1944	539
	85	PT Watt												2349												2261
		QW l/h												404												389
		ΔP Pa												2572												2382

5 HEATING OUTPUT

KAIMAN K 34

TA₁	Air temperature
TW₁	Water inlet temperature
TW₂	Water outlet temperature
PT	Heating output
Qw	Water flow
ΔP	Water pressure drop

TA ₁				16												18											
TW ₁ (°C)				35	40	45	50	55	60	65	70	75	80	85	90	35	40	45	50	55	60	65	70	75	80	85	90
TW ₂ (°C)	30	PT	Watt	405	487	573	662	754	848	945	1044	1146	1250	1356	1464	342	421	504	591	680	772	867	965	1065	1167	1271	1378
		QW	l/h	70	42	33	28	26	24	23	22	22	22	21	21	59	36	29	25	23	22	21	21	20	20	20	20
		ΔP	Pa	109	40	24	18	15	13	12	11	11	10	10	10	78	30	19	15	12	11	10	10	9	9	9	9
	35	PT	Watt		573	662	754	848	945	1044	1146	1250	1356	1464	1574		504	591	680	772	867	965	1065	1167	1271	1378	1486
		QW	l/h		99	57	43	36	33	30	28	27	26	25	25		87	51	39	33	30	28	26	25	24	24	23
		ΔP	Pa		219	73	42	30	24	20	18	16	15	14	14		169	58	34	25	20	17	15	14	13	13	12
	40	PT	Watt			754	848	945	1044	1146	1250	1356	1464	1574	1686			680	772	867	965	1065	1167	1271	1378	1486	1596
		QW	l/h			130	73	54	45	39	36	33	31	30	29			117	66	50	41	37	33	31	30	28	27
		ΔP	Pa			378	120	66	45	35	29	25	22	20	19			308	99	56	39	30	25	22	20	18	17
	45	PT	Watt				945	1044	1146	1250	1356	1464	1574	1686	1799				867	965	1065	1167	1271	1378	1486	1596	1708
		QW	l/h				163	90	66	54	47	42	39	36	34				149	83	61	50	44	39	37	34	33
		ΔP	Pa				595	182	97	65	49	40	34	30	27				501	155	84	57	43	35	30	27	24
	50	PT	Watt					1146	1250	1356	1464	1574	1686	1799	1915					1065	1167	1271	1378	1486	1596	1708	1822
		QW	l/h					197	108	78	63	54	48	44	41					183	100	73	59	51	46	42	39
		ΔP	Pa					875	260	136	89	66	53	44	38					755	227	120	79	59	47	40	35
	55	PT	Watt						1356	1464	1574	1686	1799	1915	2032						1271	1378	1486	1596	1708	1822	1938
		QW	l/h						233	126	90	72	62	55	50						219	118	85	69	59	52	48
		ΔP	Pa						1225	357	183	118	86	68	56						1077	316	163	106	78	61	51
	60	PT	Watt							1574	1686	1799	1915	2032	2150							1486	1596	1708	1822	1938	2055
		QW	l/h							271	145	103	82	70	62							256	137	98	78	67	59
		ΔP	Pa							1651	473	240	153	110	86							1471	424	216	138	100	78
	65	PT	Watt								1799	1915	2032	2150	2270								1708	1822	1938	2055	2174
		QW	l/h								309	165	116	92	78								294	157	111	88	75
		ΔP	Pa								2157	611	306	193	137								1945	553	278	176	126
	70	PT	Watt									2032	2150	2270	2392									1938	2055	2174	2294
		QW	l/h									349	185	130	103									333	177	125	99
		ΔP	Pa									2750	770	382	238									2502	704	350	219
	75	PT	Watt										2270	2392	2515										2174	2294	2416
		QW	l/h										390	206	144										374	197	139
		ΔP	Pa										3434	953	468										3149	877	432
	80	PT	Watt											2515	2640											2416	2540
		QW	l/h											433	227											416	218
		ΔP	Pa											4214	1161											3890	1074
	85	PT	Watt												2766												2665
		QW	l/h												476												458
		ΔP	Pa												5096												4731

5 HEATING OUTPUT

KAIMAN K 34

TA_1	Air temperature
TW_1	Water inlet temperature
TW_2	Water outlet temperature
PT	Heating output
Q_w	Water flow
ΔP	Water pressure drop

TA_1			20												22											
$TW_1 (^{\circ}C)$			35	40	45	50	55	60	65	70	75	80	85	90	35	40	45	50	55	60	65	70	75	80	85	90
$TW_2 (^{\circ}C)$	30	PT Watt	282	358	438	521	608	698	791	886	984	1085	1187	1292	224	296	373	454	538	626	716	810	906	1004	1105	1208
		QW l/h	48	31	25	22	21	20	19	19	19	19	19	19	39	25	21	20	19	18	18	17	17	17	17	17
		ΔP Pa	53	21	14	11	10	9	9	8	8	8	8	8	33	15	10	9	8	7	7	7	7	7	7	7
	35	PT Watt		438	521	608	698	791	886	984	1085	1187	1292	1399		373	454	538	626	716	810	906	1004	1105	1208	1313
		QW l/h		75	45	35	30	27	25	24	23	23	22	22		64	39	31	27	25	23	22	22	21	21	21
		ΔP Pa		128	45	27	20	17	15	13	12	12	11	11		93	34	21	16	14	12	11	11	10	10	9
	40	PT Watt			608	698	791	886	984	1085	1187	1292	1399	1508			538	626	716	810	906	1004	1105	1208	1313	1421
		QW l/h			105	60	45	38	34	31	29	28	27	26			93	54	41	35	31	29	27	26	25	24
		ΔP Pa			246	81	46	33	26	22	19	17	16	15			193	65	38	27	22	19	17	15	14	13
	45	PT Watt				791	886	984	1085	1187	1292	1399	1508	1619				716	810	906	1004	1105	1208	1313	1421	1530
		QW l/h				136	76	56	47	41	37	34	32	31				123	70	52	43	38	35	32	31	29
		ΔP Pa				417	131	72	49	38	31	27	24	22				342	109	61	42	33	27	23	21	19
	50	PT Watt					984	1085	1187	1292	1399	1508	1619	1731					906	1004	1105	1208	1313	1421	1530	1641
		QW l/h					169	93	68	56	48	43	40	37					156	86	63	52	45	41	38	35
		ΔP Pa					646	196	104	70	52	42	36	31					547	168	90	61	46	37	32	28
	55	PT Watt						1187	1292	1399	1508	1619	1731	1845						1105	1208	1313	1421	1530	1641	1754
		QW l/h						204	111	80	65	56	50	45						190	104	75	61	53	47	43
		ΔP Pa						940	278	145	95	70	55	46						814	243	128	84	62	50	42
	60	PT Watt							1399	1508	1619	1731	1845	1961							1313	1421	1530	1641	1754	1868
		QW l/h							241	130	93	74	63	56							226	122	88	71	60	54
		ΔP Pa							1304	379	194	125	91	71							1149	336	173	112	82	65
	65	PT Watt								1619	1731	1845	1961	2079								1530	1641	1754	1868	1985
		QW l/h								278	149	106	84	72								263	141	101	80	68
		ΔP Pa								1745	499	252	160	115								1559	448	228	145	105
	70	PT Watt									1845	1961	2079	2198									1754	1868	1985	2103
		QW l/h									317	169	119	95									302	161	114	90
		ΔP Pa									2269	641	320	201									2049	581	292	184
	75	PT Watt										2079	2198	2319										1985	2103	2222
		QW l/h										358	189	133										341	181	127
		ΔP Pa										2879	805	398										2624	736	366
	80	PT Watt											2319	2441											2222	2343
		QW l/h											399	210											382	202
		ΔP Pa											3582	992											3290	914
	85	PT Watt												2565												2466
		QW l/h												441												424
		ΔP Pa												4383												4050

5 HEATING OUTPUT

KAIMAN K 36

TA₁	Air temperature
TW₁	Water inlet temperature
TW₂	Water outlet temperature
PT	Heating output
Qw	Water flow
ΔP	Water pressure drop

TA ₁				16												18											
TW ₁ (°C)				35	40	45	50	55	60	65	70	75	80	85	90	35	40	45	50	55	60	65	70	75	80	85	90
TW ₂ (°C)	30	PT	Watt	481	577	676	778	883	991	1102	1215	1330	1448	1568	1690	408	500	596	696	799	904	1013	1124	1238	1354	1472	1592
		QW	l/h	83	50	39	33	30	28	27	26	25	25	25	24	70	43	34	30	27	26	25	24	24	23	23	23
		ΔP	Pa	94	34	21	15	13	11	10	9	9	8	8	8	67	25	16	12	10	9	8	8	8	7	7	7
	35	PT	Watt		676	778	883	991	1102	1215	1330	1448	1568	1690	1813		596	696	799	904	1013	1124	1238	1354	1472	1592	1714
		QW	l/h		116	67	51	43	38	35	33	31	30	29	28		103	60	46	39	35	32	30	29	28	27	27
		ΔP	Pa		185	61	35	25	20	17	15	13	12	12	11		144	49	29	21	17	14	13	12	11	10	10
	40	PT	Watt			883	991	1102	1215	1330	1448	1568	1690	1813	1939			799	904	1013	1124	1238	1354	1472	1592	1714	1838
		QW	l/h			152	85	63	52	46	42	39	36	35	33			137	78	58	48	43	39	36	34	33	32
		ΔP	Pa			315	99	55	37	29	24	20	18	16	15			258	83	46	32	25	21	18	16	15	14
	45	PT	Watt				1102	1215	1330	1448	1568	1690	1813	1939	2067				1013	1124	1238	1354	1472	1592	1714	1838	1965
		QW	l/h				189	104	76	62	54	48	45	42	39				174	97	71	58	51	46	42	40	38
		ΔP	Pa				491	149	80	53	40	32	27	24	21				415	128	69	46	35	28	24	21	19
	50	PT	Watt					1330	1448	1568	1690	1813	1939	2067	2196					1238	1354	1472	1592	1714	1838	1965	2092
		QW	l/h					229	125	90	73	62	56	51	47					213	116	84	68	59	53	48	45
		ΔP	Pa					716	212	111	72	53	42	35	30					620	185	97	64	48	38	32	28
	55	PT	Watt						1568	1690	1813	1939	2067	2196	2327						1472	1592	1714	1838	1965	2092	2222
		QW	l/h						270	145	104	83	71	63	57						253	137	98	79	68	60	55
		ΔP	Pa						995	289	148	95	69	54	45						877	256	132	85	62	49	41
	60	PT	Watt							1813	1939	2067	2196	2327	2460							1714	1838	1965	2092	2222	2353
		QW	l/h							312	167	118	94	80	71							295	158	113	90	76	67
		ΔP	Pa							1331	380	192	122	88	68							1189	342	174	111	80	62
	65	PT	Watt								2067	2196	2327	2460	2594								1965	2092	2222	2353	2486
		QW	l/h								355	189	133	106	89								338	180	127	101	86
		ΔP	Pa								1729	488	243	153	109								1562	443	222	140	100
	70	PT	Watt									2327	2460	2594	2729									2222	2353	2486	2621
		QW	l/h									400	212	149	117									382	202	143	113
		ΔP	Pa									2191	612	303	188									1998	560	278	174
	75	PT	Watt										2594	2729	2867										2486	2621	2757
		QW	l/h										446	235	164										428	225	158
		ΔP	Pa										2723	754	370										2502	695	342
	80	PT	Watt											2867	3005											2757	2894
		QW	l/h											493	258											474	249
		ΔP	Pa											3326	914											3076	848
	85	PT	Watt												3145												3033
		QW	l/h												541												522
		ΔP	Pa												4004												3723

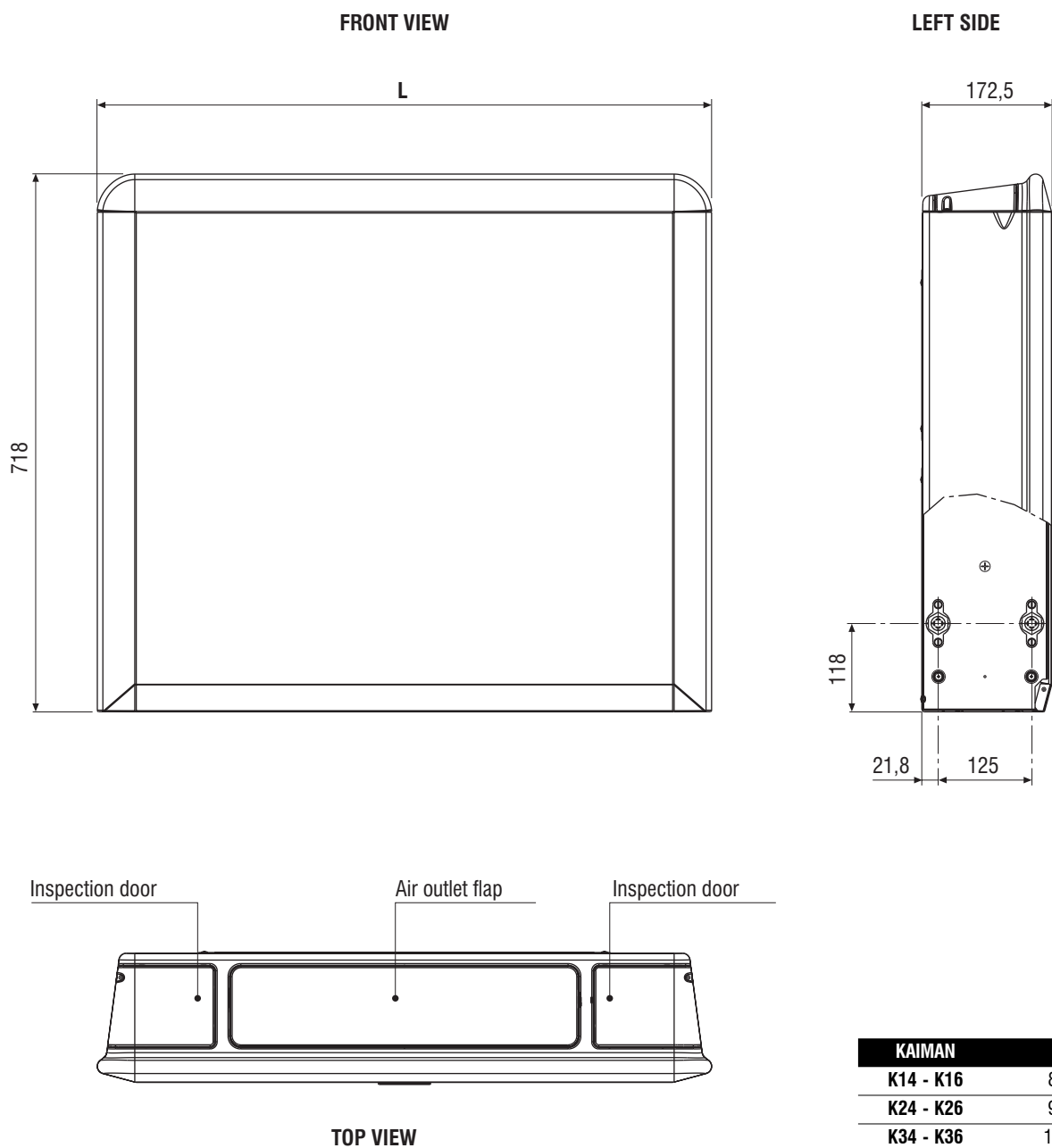
5 HEATING OUTPUT

KAIMAN K 36

T_{A1}	Air temperature
T_{W1}	Water inlet temperature
T_{W2}	Water outlet temperature
PT	Heating output
Q_w	Water flow
ΔP	Water pressure drop

TA ₁				20												22											
TW ₁ (°C)				35	40	45	50	55	60	65	70	75	80	85	90	35	40	45	50	55	60	65	70	75	80	85	90
TW ₂ (°C)	30	PT	Watt	337	426	519	616	716	819	926	1035	1147	1261	1377	1496	270	355	444	538	636	737	841	947	1057	1169	1284	1401
		QW	l/h	58	37	30	26	25	23	23	22	22	22	22	21	46	31	25	23	22	21	21	20	20	20	20	20
		ΔP	Pa	46	18	12	10	8	8	7	7	7	6	6	6	29	13	9	7	7	6	6	6	6	6	6	6
	35	PT	Watt		519	616	716	819	926	1035	1147	1261	1377	1496	1616		444	538	636	737	841	947	1057	1169	1284	1401	1520
		QW	l/h		89	53	41	35	32	30	28	27	26	26	25		76	46	36	32	29	27	26	25	25	24	24
		ΔP	Pa		109	38	23	17	14	12	11	10	9	9	9		80	29	18	14	11	10	9	9	8	8	8
	40	PT	Watt			716	819	926	1035	1147	1261	1377	1496	1616	1739			636	737	841	947	1057	1169	1284	1401	1520	1641
		QW	l/h			123	70	53	44	39	36	34	32	31	30			109	63	48	41	36	34	32	30	29	28
		ΔP	Pa			208	68	39	27	21	18	16	14	13	12			164	55	32	23	18	15	14	12	12	11
	45	PT	Watt			926	1035	1147	1261	1377	1496	1616	1739	1864				841	947	1057	1169	1284	1401	1520	1641	1764	
		QW	l/h			159	89	66	54	47	43	40	37	36				145	81	61	50	44	40	37	35	34	
		ΔP	Pa			347	108	59	40	31	25	22	19	17				286	91	50	35	27	22	19	17	16	
	50	PT	Watt			1147	1261	1377	1496	1616	1739	1864	1990					1057	1169	1284	1401	1520	1641	1764	1889		
		QW	l/h			197	108	79	64	56	50	46	43					182	101	74	60	52	47	43	41		
		ΔP	Pa			532	161	85	57	42	34	29	25					452	138	74	50	37	30	26	23		
	55	PT	Watt				1377	1496	1616	1739	1864	1990	2118						1284	1401	1520	1641	1764	1889	2016		
		QW	l/h				237	129	93	75	64	57	52						221	120	87	71	61	54	50		
		ΔP	Pa				767	226	117	76	56	45	37						667	198	104	68	50	40	34		
	60	PT	Watt					1616	1739	1864	1990	2118	2248							1520	1641	1764	1889	2016	2144		
		QW	l/h					278	150	107	86	73	64							261	141	101	81	69	61		
		ΔP	Pa					1057	306	156	100	73	57							934	272	140	90	66	52		
	65	PT	Watt					1864	1990	2118	2248	2380									1764	1889	2016	2144	2274		
		QW	l/h					321	171	121	97	82									303	162	116	92	78		
		ΔP	Pa					1405	401	202	128	92									1259	361	183	116	84		
	70	PT	Watt						2118	2248	2380	2513											2016	2144	2274	2406	
		QW	l/h						364	193	136	108											347	184	130	103	
		ΔP	Pa						1816	511	255	160											1644	465	233	146	
	75	PT	Watt							2380	2513	2648												2274	2406	2540	
		QW	l/h							409	216	152												391	207	146	
		ΔP	Pa							2292	639	315												2093	586	290	
	80	PT	Watt								2648	2784													2540	2675	
		QW	l/h								455	239													437	230	
		ΔP	Pa								2837	784													2611	724	
	85	PT	Watt									2922														2812	
		QW	l/h									503														484	
		ΔP	Pa									3455														3199	

6 OVERALL DIMENSIONS



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