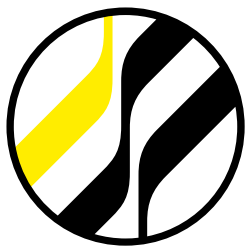


Kelvion



Customized Air Coolers

Kelvion GS./GB. & Kelvion CS./CB.

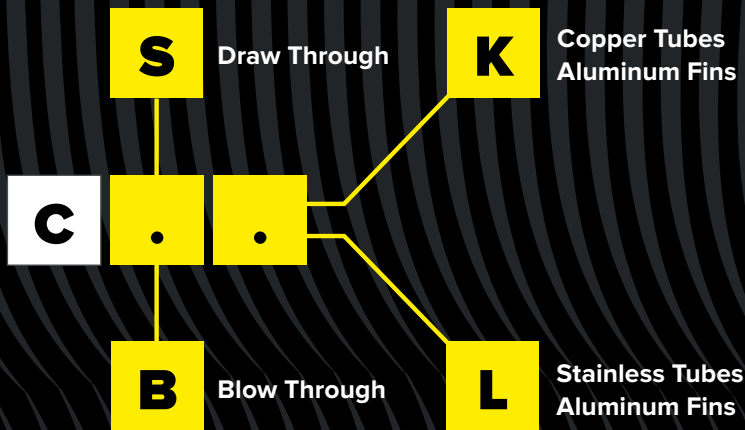
THE FAST AND THE FLEXIBLE



The Flexible

KELVION CS./CB.

BASIC NOMENCLATURE



CAPACITY RANGE

HFC	6.4 kW - 184 kW CSK $t_c = 0^\circ\text{C}$ $t_e = -8^\circ\text{C}$ $\text{DT}=8\text{K}$ [SC2] R404A
CO₂	6.4 kW - 164 kW CSL $t_c = 0^\circ\text{C}$ $t_e = -8^\circ\text{C}$ $\text{DT}=7\text{K}$ [SC2] up to 60 bar
NH₃	7.7 kW - 224 kW CSL $t_c = 0^\circ\text{C}$ $t_e = -8^\circ\text{C}$ $\text{DT}=7\text{K}$ [SC2] NH ₃ -pump
MEG	6.4 kW - 268 kW CSL $t_c = 5^\circ\text{C}$ $t_m = -7^\circ\text{C}$ $t_{out} = -4^\circ\text{C}$ E-glycol 37%

Bespoke Solution
according to your
requirement

More than 8,000 options
to meet highest standards

Easy selection
with Kelvion Select RT



**NEED FOR
FLEXIBILITY?**

**FIND OUT MORE
GO TO PAGE 20**



KELVION GS./GB.

KELVION CS./CB.

COOLING CAPACITY



ENERGY EFFICIENCY



VARIANTS



CORROSION PROTECTION



EASY CLEANING



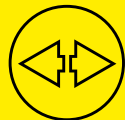
SOUND LEVEL



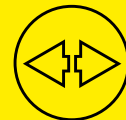
AIR VOLUME FLOW



DELIVERY TIME



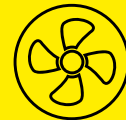
Blow Through & Draw Through



Blow Through & Draw Through



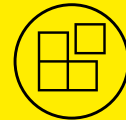
Most Modern Premium Brand Fans



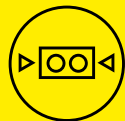
Most Modern Premium Brand Fans



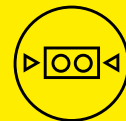
Extensive Range of Accessories



Extensive Range of Accessories



L/R Side Connection Availability



L/R Side Connection Availability



Configuration via Kelvion Select RT



Configuration via Kelvion Select RT



CO₂ up to 60 bar Operating Pressure



CO₂ up to 60 bar Operating Pressure



Defined Variants for quick delivery



CAL Distributor as an option



UVC Desinfection as an option






Kelvion CS./CB.

FLEXIBLE SOLUTIONS FOR DEMANDING REFRIGERATION TASKS

CAPACITY RANGE (for SC2)

6.4 kW    184 kW

TEMPERATURE RANGE (t_L)

-40°C      +50°C

CAPACITY RANGE (for SC2)

7.7 kW    224 kW

TEMPERATURE RANGE (t_L)

-40°C      +50°C

TYPE DESIGNATION CODE

1 2 3 4 5 6 7 8 9

C B K - 50 3 - 6 L N -

- | | | | |
|---|-----------------------|---|------------------------|
| 1 | Size of product | 6 | Number of rows deep |
| 2 | Case style of product | 7 | Fin spacing |
| 3 | Coil block system | 8 | Defrost system |
| 4 | Fan diameter | 9 | Additional information |
| 5 | Number of fans | | |

Refrigerant & max.
operating pressure (Box 9)

HX32	HFC 32 bar
GL16	Glycol 16 bar
CX45	CO ₂ 45 bar
CX60	CO ₂ 60 bar

Kelvion CS./CB.

BASIC VERSION

CASING

- ▶ Sendzimir zinc-plated steel painted in RAL 9010
- ▶ Improved construction, air flow optimized
- ▶ Flush ceiling mounted design
- ▶ Critical parts best quality powder coated edges thanks to high-grade powder coating, RAL 9010 pure white
- ▶ Hygienic casing
- ▶ Hingeable and removable end covers
- ▶ Hinged drip tray (basic)

ELECTRIC DEFROST

- ▶ Tubular heater: Stainless steel
- ▶ Connections: steam-proof
- ▶ Mains voltage: 3/N/PE 400V 50/60Hz
- ▶ Readily wired for connection box
- ▶ Optimized tubular heater configurations ensure fast and even defrosting
- ▶ Aluminum tube sleeves: Ensure excellent heat transfer to the fins and thus effective defrosting cycles with optimized service life

HEAT EXCHANGER

- ▶ Tube: circuiting optimized
Copper; refrigerant/CO₂/Coolants **(CBK/CSK)**
Stainless steel 304; refrigerants/NH₃/CO₂/Coolants **(CBL/CSL)**
- ▶ Fins: Aluminum HFE® fins
- ▶ Aligned tube system
- ▶ Fin spacing:
R = 4.0 mm
B = 7.0 mm
K = 10.0 mm
- ▶ Connection Inlet:
Venturi distributor for refrigerants **(CBK/CSK)**
Stainless steel tube for welding connection **(CBL/CSL)**
CAL® distributor as option
- ▶ Connection Outlet:
Copper pipe for solder connection with schrader valve UNF 7/16", sealed **(CBK/CSK)**
Stainless steel tube for welding connection **(CBL/CSL)**
- ▶ Max. working pressure:
40 bar (60 bar optional) **(CBK/CSK)**
70 bar **(CBL/CSL)**

TECHNICAL DATA | CSL/CBL (StSt/Al)

Fin spacing 4 mm (R)

Type	Capacities Q _o at 50Hz, NH ₃ pump		Cooling surface	Air flow	Air throw	Tube volume	Connections		Sound each fan	Fans (Operational values at 400±10%V-3 50Hz)			
	SC1	SC2					Inlet	Outlet		L _{WA}	Blade	Per aircooler	
	kW	kW										Ømm	Ømm
	kW	kW	m ²	m ³ /h	m	dm ³	Ømm	Ømm	dB(A)	Ømm	rpm	W	A
451-3RN	17.3	11.6	42	5871	22	6	21.3	26.7	75	450	1350	540	1.1
451-4RN	19.9	13.5	56	5554	22	9	21.3	26.7	75	450	1350	540	1.1
451-6RN	22.9	15.0	83	5038	22	13	21.3	33.7	75	450	1350	540	1.1
501-3RN	22.6	15.3	54	7842	25	8	21.3	33.7	78	500	1340	840	1.45
501-4RN	26.4	17.3	72	7428	25	11	21.3	33.7	78	500	1340	840	1.45
501-6RN	29.9	20.3	108	6737	25	16	21.3	33.7	78	500	1340	840	1.45
561-3RN	28.5	19.3	68	9736	27	10	21.3	33.7	82	560	1290	1150	2.1
561-4RN	33.4	22.6	91	9355	27	14	21.3	33.7	82	560	1290	1150	2.1
561-6RN	38.5	26.2	136	8676	27	20	26.7	42.4	82	560	1290	1150	2.1
631-3RN	38.6	26.2	93	13553	33	14	26.7	42.4	86	630	1360	1500	2.7
631-4RN	45.7	31.0	124	13104	33	18	26.7	42.4	86	630	1360	1500	2.7
631-6RN	53.6	36.4	185	12318	33	27	26.7	42.4	86	630	1360	1500	2.7
801-4RN	69.7	47.4	198	19360	43	28	33.7	42.4	77	800	815	1700	3.5
801-6RN	80.8	54.9	295	17877	43	43	33.7	48.3	77	800	815	1700	3.5
452-3RN	34.7	23.6	84	11729	24	12	21.3	33.7	75	450	1350	1080	2.2
452-4RN	40.3	26.6	111	11093	24	16	26.7	42.4	75	450	1350	1080	2.2
452-6RN	44.8	30.5	166	10058	24	24	26.7	42.4	75	450	1350	1080	2.2
502-3RN	46.0	31.1	108	15669	27	15	26.7	42.4	78	500	1340	1680	2.9
502-4RN	53.5	35.3	144	14838	27	20	26.7	42.4	78	500	1340	1680	2.9
502-6RN	60.6	41.2	215	13452	27	31	26.7	42.4	78	500	1340	1680	2.9
562-3RN	57.7	38.1	136	19462	29	19	26.7	42.4	82	560	1290	2300	4.2
562-4RN	67.5	45.8	181	18694	29	25	33.7	42.4	82	560	1290	2300	4.2
562-6RN	78.0	53.1	270	17332	29	38	33.7	48.3	82	560	1290	2300	4.2
632-3RN	78.2	53.3	186	27093	35	26	33.7	48.3	86	630	1360	3000	5.4
632-4RN	92.4	63.0	247	26192	35	35	33.7	60.3	86	630	1360	3000	5.4
632-6RN	108.5	73.8	369	24615	35	52	33.7	60.3	86	630	1360	3000	5.4
802-4RN	140.7	95.9	395	38696	45	54	42.4	60.3	77	800	815	3400	7.0
802-6RN	162.9	111.1	590	35725	45	82	42.4	60.3	77	800	815	3400	7.0
453-3RN	51.7	35.3	125	17586	25	17	26.7	42.4	75	450	1350	1620	3.3
453-4RN	60.7	41.3	167	16632	25	23	26.7	42.4	75	450	1350	1620	3.3
453-6RN	67.6	46.1	249	15079	25	35	33.7	42.4	75	450	1350	1620	3.3
503-3RN	69.1	47.0	162	23496	28	22	33.7	42.4	78	500	1340	2520	4.35
503-4RN	79.7	54.3	216	22249	28	30	33.7	48.3	78	500	1340	2520	4.35
503-6RN	92.7	63.0	323	20169	28	45	33.7	60.3	78	500	1340	2520	4.35
563-3RN	86.6	57.5	204	29184	30	28	33.7	48.3	82	560	1290	3450	6.3
563-4RN	99.4	67.8	271	28033	30	37	33.7	60.3	82	560	1290	3450	6.3
563-6RN	117.5	80.0	405	25987	30	56	42.4	60.3	82	560	1290	3450	6.3
633-3RN	118.9	81.1	278	40632	36	38	42.4	60.3	86	630	1360	4500	8.1
633-4RN	141.0	92.8	370	39279	36	51	42.4	60.3	86	630	1360	4500	8.1
633-6RN	163.4	111.3	553	36910	36	76	42.4	60.3	86	630	1360	4500	8.1
803-4RN	208.6	142.4	591	58033	46	80	48.3	76.1	77	800	815	5100	10.5
803-6RN	245.1	167.2	884	53572	46	121	60.3	76.1	77	800	815	5100	10.5
454-3RN	69.9	47.6	167	23444	26	23	33.7	42.4	75	450	1350	2160	4.4
454-4RN	81.1	53.8	222	22171	26	30	33.7	48.3	75	450	1350	2160	4.4
454-6RN	90.3	61.7	332	20100	26	46	33.7	60.3	75	450	1350	2160	4.4
504-3RN	91.3	62.3	216	31323	29	30	33.7	60.3	78	500	1340	3360	5.8
504-4RN	104.7	71.4	288	29659	29	39	33.7	60.3	78	500	1340	3360	5.8
504-6RN	122.0	83.2	430	26884	29	59	42.4	60.3	78	500	1340	3360	5.8
564-3RN	116.0	77.0	272	38909	31	37	42.4	60.3	82	560	1290	4600	8.4
564-4RN	135.7	92.2	361	37371	31	49	42.4	60.3	82	560	1290	4600	8.4
564-6RN	156.9	102.9	540	34643	31	74	42.4	60.3	82	560	1290	4600	8.4
634-3RN	157.5	107.5	371	54171	37	50	42.4	60.3	86	630	1360	6000	10.8
634-4RN	186.1	126.9	493	52367	37	67	42.4	76.1	86	630	1360	6000	10.8
634-6RN	218.3	148.9	737	49208	37	101	48.3	76.1	86	630	1360	6000	10.8
804-4RN	282.8	192.9	788	77368	47	106	60.3	76.1	77	800	815	6800	14.0
804-6RN	330.4	225.3	1178	71419	47	160	60.3	88.9	77	800	815	6800	14.0

Type	Capacities Q ₀ at 50Hz, NH ₃ pump		Cooling surface m ²	Air flow m ³ /h	Air throw *** m	Tube volume dm ³	Connections		Sound each fan L _{WA} dB(A)	Fans (Operational values at 400±10%V-3 50Hz)			
	SC1	SC2					Inlet	Outlet		Blade Ømm	Per aircooler		
	kW	kW					Ømm	Ømm	rpm		W	A	
455-3RN	88.0	58.3	209	29301	26	28	33.7	60.3	75	450	1350	2700	5.5
455-4RN	99.7	68.0	277	27709	26	38	33.7	60.3	75	450	1350	2700	5.5
455-6RN	115.6	75.8	414	25120	26	57	42.4	60.3	75	450	1350	2700	5.5
505-3RN	116.1	78.7	270	39150	29	37	42.4	60.3	78	500	1340	4200	7.25
505-4RN	134.6	91.6	359	37069	29	49	42.4	60.3	78	500	1340	4200	7.25
505-6RN	151.6	100.9	537	33600	29	73	42.4	60.3	78	500	1340	4200	7.25
565-3RN	144.0	98.2	340	48633	31	46	42.4	60.3	82	560	1290	5750	10.5
565-4RN	168.9	115.1	452	46710	31	61	42.4	76.1	82	560	1290	5750	10.5
565-6RN	191.2	130.4	675	43299	31	92	48.3	76.1	82	560	1290	5750	10.5
635-3RN	197.1	134.5	464	67710	37	62	48.3	76.1	86	630	1360	7500	13.5
635-4RN	232.9	154.3	616	65455	37	83	60.3	76.1	86	630	1360	7500	13.5
635-6RN	271.8	185.5	920	61504	37	125	60.3	76.1	86	630	1360	7500	13.5
456-3RN	105.1	71.7	250	35159	27	34	33.7	60.3	75	450	1350	3240	6.6
456-4RN	122.0	83.1	333	33248	27	45	42.4	60.3	75	450	1350	3240	6.6
456-6RN	136.0	92.8	497	30140	27	68	42.4	60.3	75	450	1350	3240	6.6
506-3RN	139.5	94.9	325	46976	30	44	42.4	60.3	78	500	1340	5040	8.7
506-4RN	160.2	109.2	431	44480	30	58	42.4	60.3	78	500	1340	5040	8.7
506-6RN	185.3	120.6	644	40315	30	88	42.4	76.1	78	500	1340	5040	8.7
566-3RN	173.9	115.8	408	58358	32	55	42.4	76.1	82	560	1290	6900	12.6
566-4RN	199.9	136.4	542	56049	32	73	48.3	76.1	82	560	1290	6900	12.6
566-6RN	235.9	160.8	810	51955	32	110	60.3	76.1	82	560	1290	6900	12.6
636-3RN	238.8	162.9	556	81250	38	74	60.3	76.1	86	630	1360	9000	16.2
636-4RN	281.9	186.8	739	78544	38	99	60.3	76.1	86	630	1360	9000	16.2
636-6RN	328.1	223.9	1104	73800	38	150	60.3	88.9	86	630	1360	9000	16.2
458-3RN	140.3	95.7	334	46874	27	45	42.4	60.3	75	450	1350	4320	8.8
458-4RN	158.6	108.2	443	44326	27	60	42.4	60.3	75	450	1350	4320	8.8
458-6RN	184.2	125.7	663	40182	27	90	42.4	76.1	75	450	1350	4320	8.8

Capacities	t ₁	t ₀	DT1
SC1	10	0	10
SC2	0	-8	8
SC3	-18	-25	7

Changes subject to modification

Injection via Header

DIMENSIONS & WEIGHTS

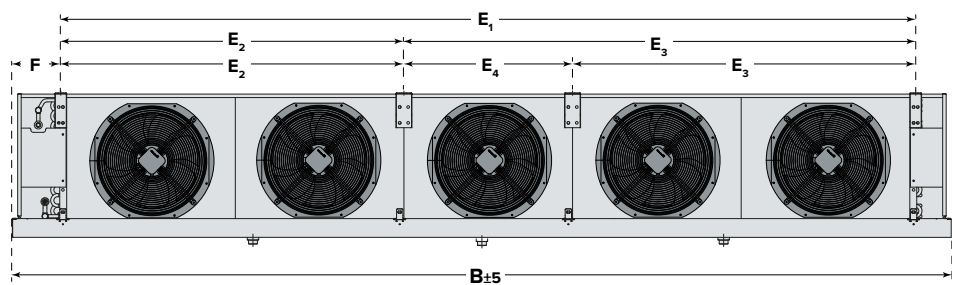
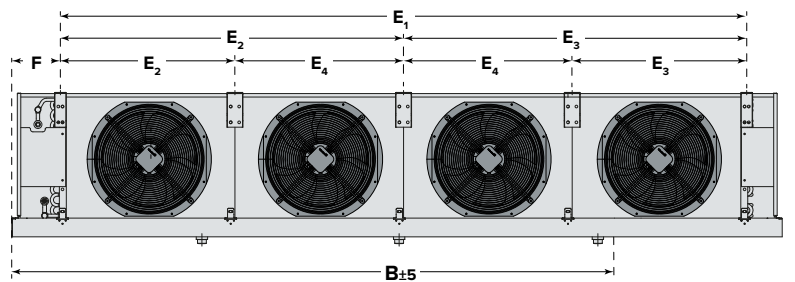
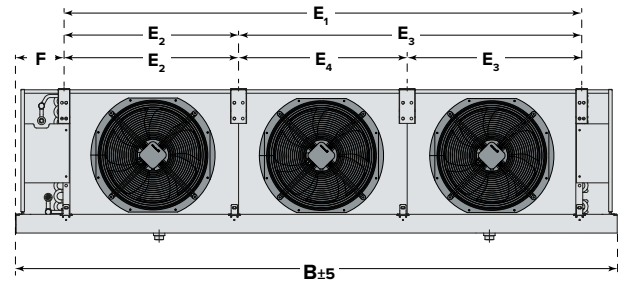
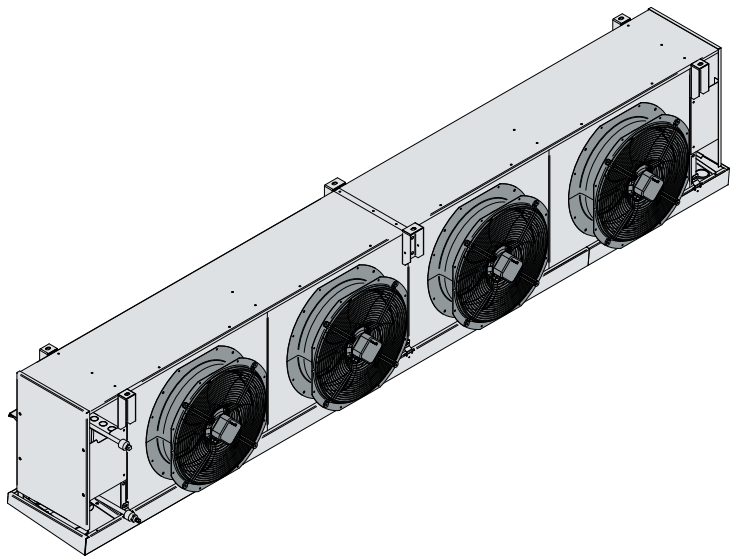
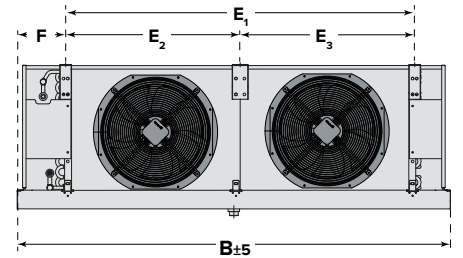
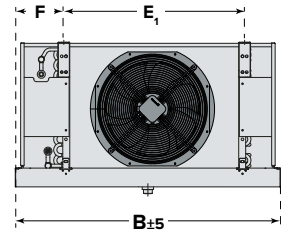
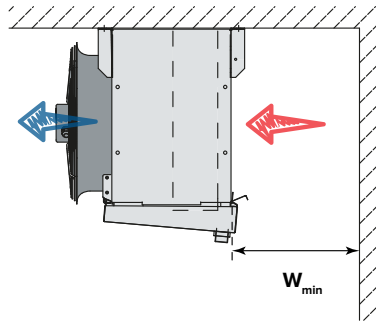
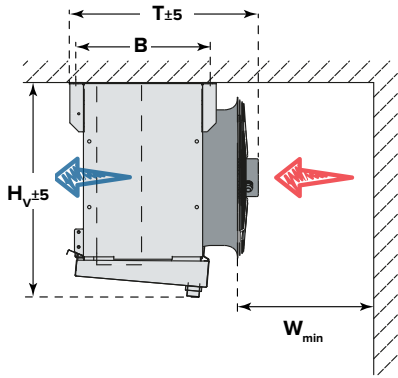
Kelvion CS./CB.

Type	Dimensions									CB. W _{min} mm	CS. W _{min} mm	Empty Weight						Drain D inch
	H	B	T	L	E ₁	E ₂	E ₃	E ₄	F			C.K-R	C.K-B	C.K-K	C.L-R	C.L-B	C.L-K	
	mm	mm	mm	mm	mm	mm	mm	mm	mm			kg	kg	kg	kg	kg	kg	
451-3..	720	1356	630	450	956	-	-	-	230	450	360	86	79	-	86	80	-	1xG 1¼
451-4..	720	1356	680	500	956	-	-	-	230	450	360	97	88	-	98	91	-	1xG 1¼
451-6..	720	1356	780	600	956	-	-	-	230	450	360	120	106	100	121	108	102	1xG 1¼
451-8..	720	1356	880	700	956	-	-	-	230	450	360	-	124	115	-	127	119	1xG 1¼
501-3..	820	1456	730	550	1056	-	-	-	230	500	420	107	98	-	110	100	-	1xG 1¼
501-4..	820	1456	780	600	1056	-	-	-	230	500	420	121	109	-	123	111	-	1xG 1¼
501-6..	820	1456	880	700	1056	-	-	-	230	500	420	149	131	123	152	134	126	1xG 1¼
501-8..	820	1456	980	800	1056	-	-	-	230	500	420	-	153	144	-	157	147	1xG 1¼
561-3..	920	1556	850	650	1156	-	-	-	230	560	576	134	122	-	136	124	-	1xG 1¼
561-4..	920	1556	900	700	1156	-	-	-	230	560	576	152	136	-	154	138	-	1xG 1¼
561-6..	920	1556	1000	800	1156	-	-	-	230	560	576	185	162	152	189	166	156	1xG 1¼
561-8..	920	1556	1100	900	1156	-	-	-	230	560	576	-	187	175	-	192	180	1xG 1¼
631-3..	1120	1656	840	650	1256	-	-	-	230	630	600	175	159	-	177	162	-	1xG 1¼
631-4..	1120	1656	890	700	1256	-	-	-	230	630	600	197	176	-	200	179	-	1xG 1¼
631-6..	1120	1656	990	800	1256	-	-	-	230	630	600	242	210	198	247	215	203	1xG 1¼
631-8..	1120	1656	1090	900	1256	-	-	-	230	630	600	-	244	228	-	250	233	1xG 1¼
801-4	1320	2056	1120	800	1656	-	-	-	230	800	720	308	278	-	313	283	-	1xG 2
801-6	1320	2056	1220	900	1656	-	-	-	230	800	720	376	329	309	383	336	316	1xG 2
801-8	1320	2056	1320	1000	1656	-	-	-	230	800	720	-	379	352	-	388	361	1xG 2
452-3..	720	2256	630	450	1856	-	-	-	230	450	360	150	136	-	151	137	-	1xG 1¼
452-4..	720	2256	680	500	1856	-	-	-	230	450	360	170	152	-	172	175	-	1xG 1¼
452-6..	720	2256	780	600	1856	-	-	-	230	450	360	213	184	172	215	188	176	1xG 1¼
452-8..	720	2256	880	700	1856	-	-	-	230	450	360	-	215	199	-	220	204	1xG 1¼
502-3..	820	2456	730	550	2056	-	-	-	230	500	420	186	168	-	188	171	-	1xG 1¼
502-4..	820	2456	780	600	2056	-	-	-	230	500	420	212	188	-	215	191	-	1xG 1¼
502-6..	820	2456	880	700	2056	-	-	-	230	500	420	264	227	212	269	231	217	1xG 1¼
502-8..	820	2456	980	800	2056	-	-	-	230	500	420	-	265	246	-	272	253	1xG 1¼
562-3..	920	2656	850	650	2256	-	-	-	230	560	576	235	213	-	237	216	-	2xG 1¼
562-4..	920	2656	900	700	2256	-	-	-	230	560	576	268	236	-	271	240	-	2xG 1¼
562-6..	920	2656	1000	800	2256	-	-	-	230	560	576	331	285	266	337	291	272	2xG 1¼
562-8..	920	2656	1100	900	2256	-	-	-	230	560	576	-	332	307	-	340	315	2xG 1¼
632-3..	1120	2856	840	650	2456	-	-	-	230	630	600	312	280	-	316	284	-	2xG 1¼
632-4..	1120	2856	890	700	2456	-	-	-	230	630	600	354	313	-	359	318	-	2xG 1¼
632-6..	1120	2856	990	800	2456	-	-	-	230	630	600	439	375	350	446	382	357	2xG 1¼
632-8..	1120	2856	1090	900	2456	-	-	-	230	630	600	-	437	403	-	448	414	2xG 1¼
802-4	1320	3656	1120	800	3256	1628	1628	-	230	800	720	565	505	-	574	514	-	2xG 2
802-6	1320	3656	1220	900	3256	1628	1628	-	230	800	720	697	601	560	709	613	572	2xG 2
802-8	1320	3656	1320	1000	3256	1628	1628	-	230	800	720	-	695	640	-	713	658	2xG 2
453-3..	720	3156	630	450	2756	-	-	-	230	450	360	215	193	-	216	194	-	2xG 1¼
453-4..	720	3156	680	500	2756	-	-	-	230	450	360	244	215	-	247	219	-	2xG 1¼
453-6..	720	3156	780	600	2756	-	-	-	230	450	360	306	261	244	310	266	248	2xG 1¼
453-8..	720	3156	880	700	2756	-	-	-	230	450	360	-	307	284	-	320	297	2xG 1¼
503-3..	820	3456	730	550	3056	1028	2028	-	230	500	420	266	240	-	268	243	-	2xG 1¼
503-4..	820	3456	780	600	3056	1028	2028	-	230	500	420	305	269	-	310	273	-	2xG 1¼
503-6..	820	3456	880	700	3056	1028	2028	-	230	500	420	381	326	303	389	333	311	2xG 1¼
503-8..	820	3456	980	800	3056	1028	2028	-	230	500	420	-	383	353	-	392	362	2xG 1¼
563-3..	920	3756	850	650	3356	1128	2228	-	230	560	576	336	302	-	340	306	-	2xG 1¼
563-4..	920	3756	900	700	3356	1128	2228	-	230	560	576	382	337	-	388	343	-	2xG 1¼
563-6..	920	3756	1000	800	3356	1128	2228	-	230	560	576	477	406	378	485	415	387	2xG 1¼
563-8..	920	3756	1100	900	3356	1128	2228	-	230	560	576	-	476	439	-	488	451	2xG 1¼
633-3..	1120	4056	840	650	3656	1228	2428	-	230	630	600	449	402	-	455	408	-	2xG 1¼
633-4..	1120	4056	890	700	3656	1228	2428	-	230	630	600	510	448	-	519	456	-	2xG 1¼
633-6..	1120	4056	990	800	3656	1228	2428	-	230	630	600	635	540	502	647	551	513	2xG 1¼
633-8..	1120	4056	1090	900	3656	1228	2428	-	230	630	600	-	631	579	-	647	596	2xG 1¼
803-4	1320	5256	1120	800	4856	1628	1628	1600	230	800	720	823	732	-	835	744	-	2xG 2
803-6	1320	5256	1220	900	4856	1628	1628	1600	230	800	720	1018	871	810	1037	890	829	2xG 2
803-8	1320	5256	1320	1000	4856	1628	1628	1600	230	800	720	-	1011	929	-	1036	954	2xG 2

The dimensions are only valid for the standard model design!
 Note the differences in dimension among versions and accessories.
 The weight does not include variants and accessories, subject to modification

DIMENSIONAL DRAWINGS

Kelvion CS./CB.



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