



Fan box with electrical or water heater and filter type BTL-BIC EC

Fan box with electrical or water heater and filter

Application

- The **BTL-BIC** air handling unit is used for air input in small rooms.

Composition

- 6 sizes: 400, 700, 1000, 2000, 3000, 4000 m³/h with 1-3 phases electrical heaters.
- 4 models: 1000, 2000, 3000, 4000 m³/h with water heaters.
- Integrated motorized air damper,
- Installed pressure switch for filter pollution.
- Low height – perfect for installation under ceilings.
- Pocket filters M5.
- Mountable with maintenance side - up and down.
- Quiet and long-life unit.
- Compact size, powder coated casing - grey colour RAL 7040.
- Electrical heater control 0-10V.
- Plug & Play – quick and easy installation.
- Acoustic and thermal insulation of external walls: 30mm
- Reversible control box side for BTL 3000 and 40000
- Setpoint temperature between 15 and 30°C

Fan

- EC fan for saving energy and money

Motor

- External rotor motor with thermal protection.
- Fan Supply: 230Vac 1ph or , 2ph or 3ph depending on model
- Electrical heater supply: 230Vac 1ph or 400Vac 2ph or 3ph depending on model
- Protection IP44 or IP54 depending on model - Insulation class B.
- Suitable for speed regulation

Options

- Roof for the units 1000 and larger
- Attention: All types smaller than 1000 are not equipped for outdoor installation!
- F7 filter

Accessories

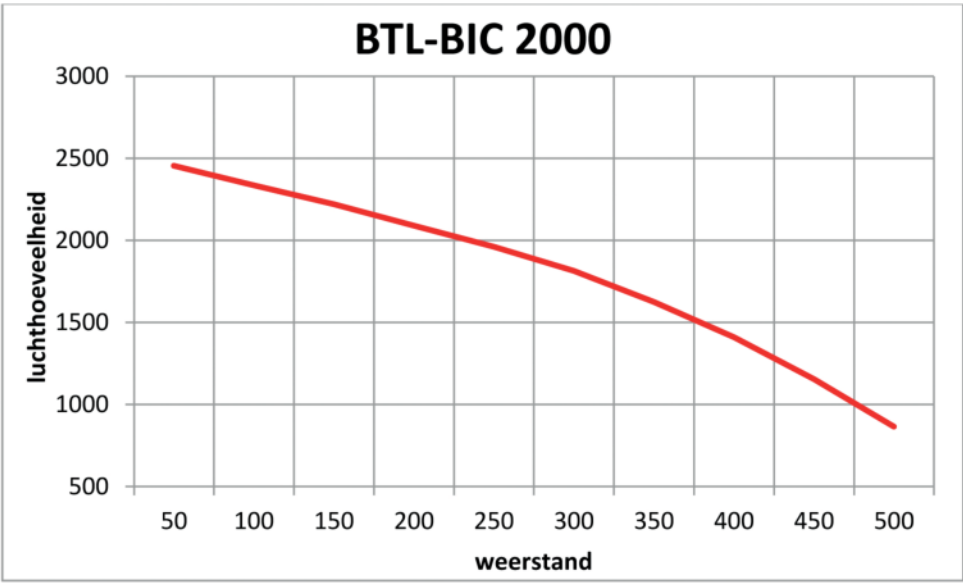
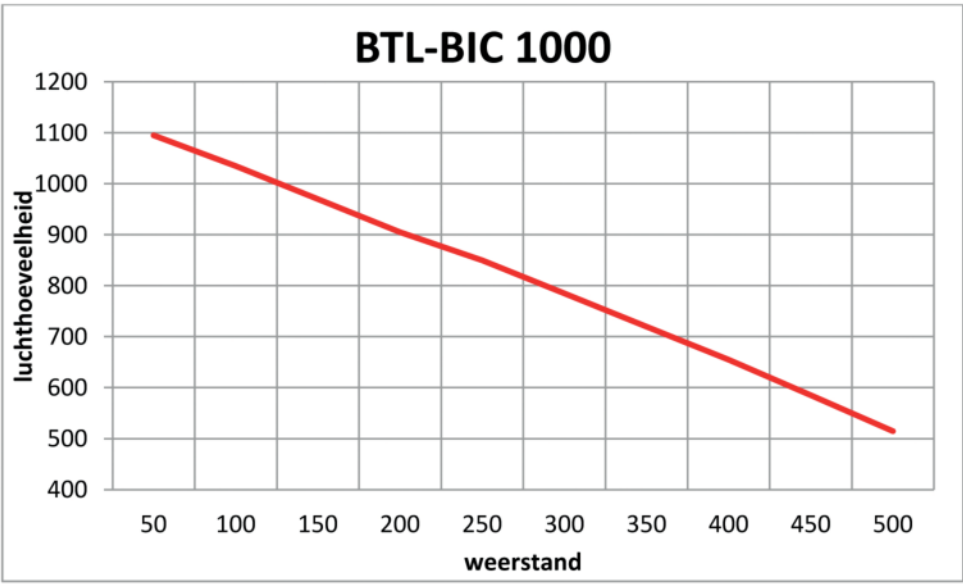
- To control BTL-BIC order one of the remote controller: **FLEX**

Order example

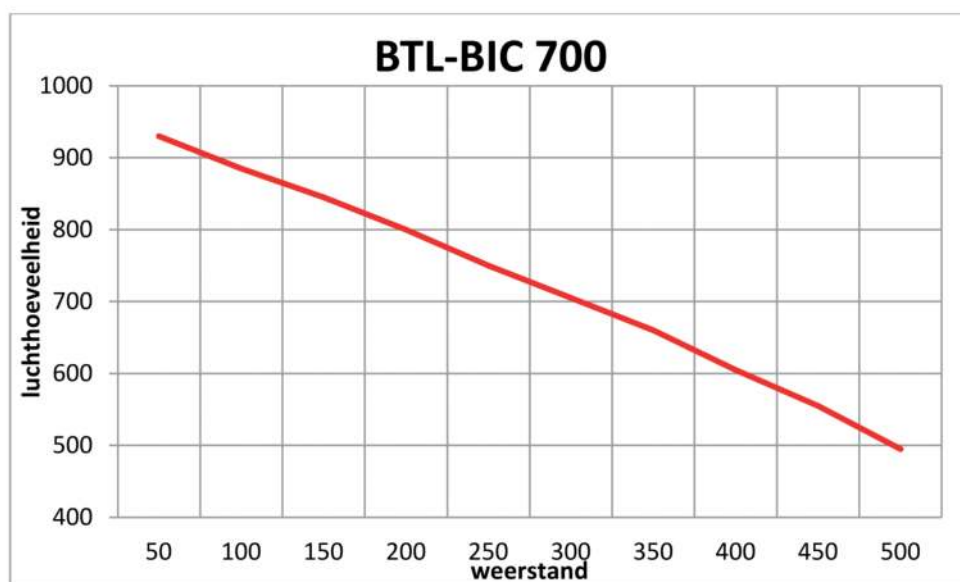
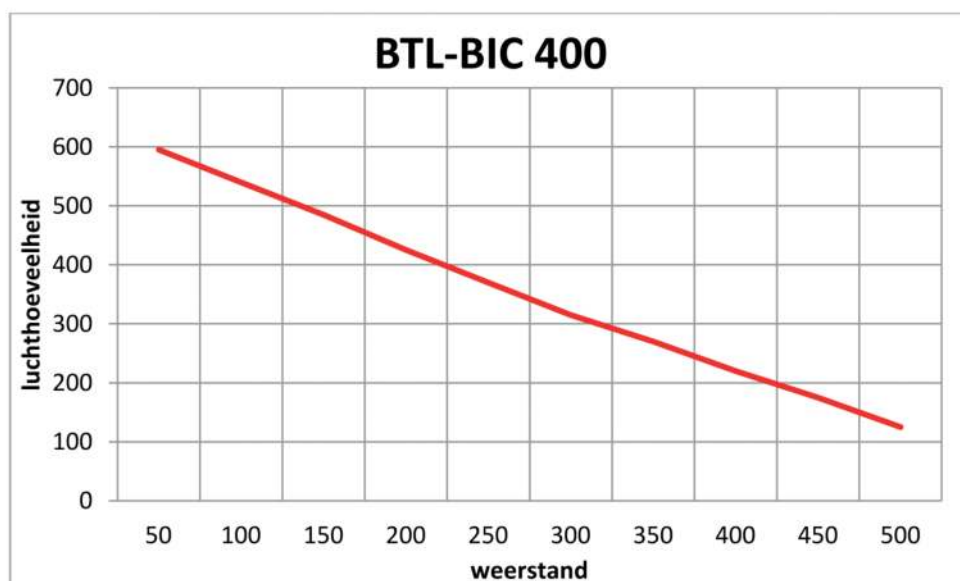
■ **BTL-BIC 1000-9,0 L1**
BTL-BIC: fan type
1000: nominal airflow
9,0: power heater 9.0kW
L1: power supply

unit	Air performance data									
	Luchthoeveelheid in m³/h									
	50Pa	100Pa	150Pa	200Pa	250Pa	300Pa	350Pa	400Pa	450Pa	500Pa
BTL-BIC 400	595	540	485	425	370	315	270	220	175	125
BTL-BIC 700	930	885	845	800	750	705	660	605	555	495
BTL-BIC 1000	1095	1035	970	905	850	785	720	655	585	515
BTL-BIC 2000	2455	2335	2220	2090	1960	1815	1625	1410	1155	865
BTL-BIC 3000	3885	3765	3650	3535	3410	3285	3130	2975	2815	2640
BTL-BIC 4000	4765	4675	4575	4475	4370	4270	4160	4035	3895	3740

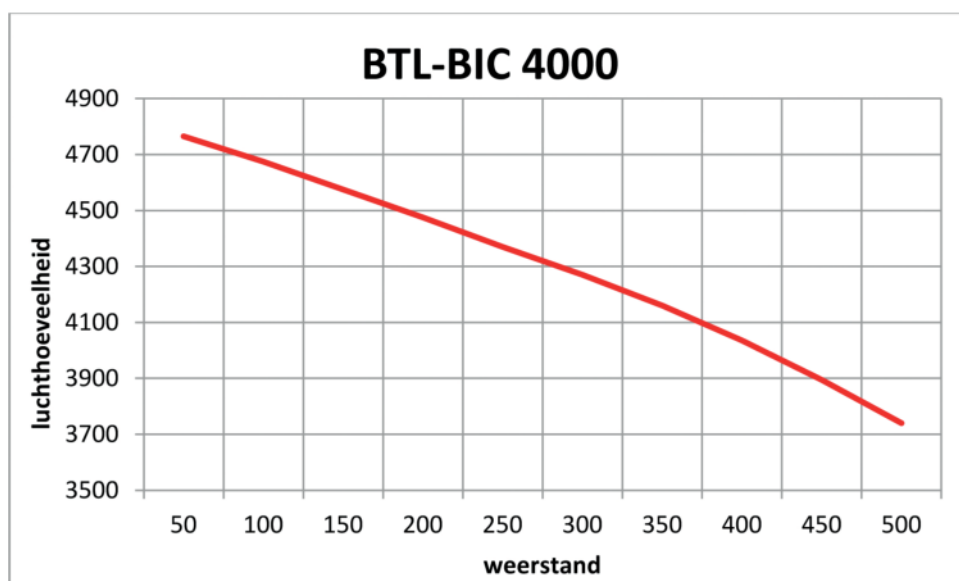
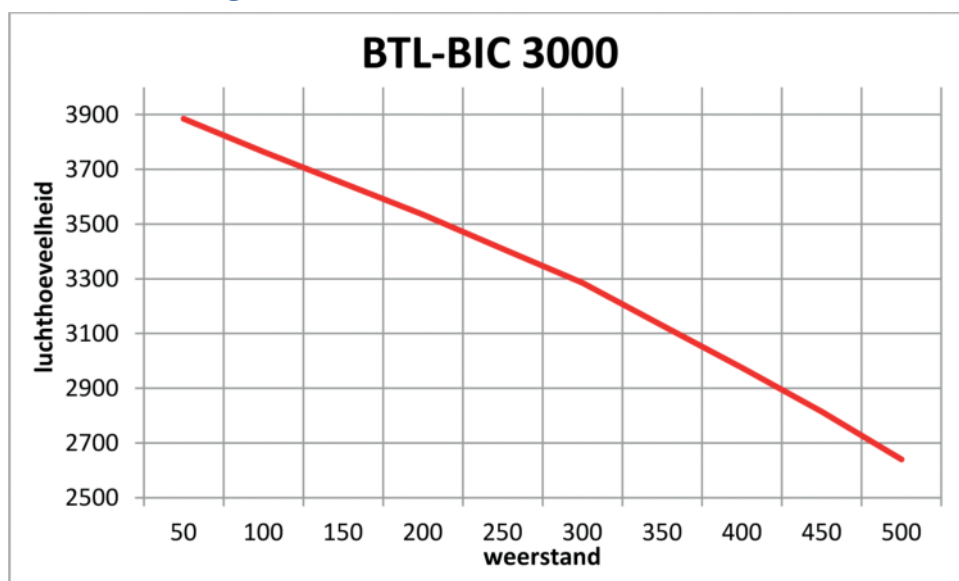
Pressure loss diagram



Selection curves



Pressure loss diagram



Fan casings

Technical data water heater									
	Ti(w) [°C/°C]	Ti [°C]	*	Qv(L) [m³/h]					
				500	600	700	800	900	1000
BLT-BIC 1000 W	80/60	-7	P[kW]/Tu[°C]	7,7/39,3	8,7/36,6	9,66/34,3	10,5/32,4	11,21/30,8	11,78/29,3
			Qv(w)[l/s]/Dp(w)[kPa]	0,09/1,3	0,11/1,59	0,12/1,93	0,13/2,25	0,14/2,53	0,14/2,77
		0	P[kW]/Tu[°C]	7,4/7,8	8,3/9,3	8,8/37,3	9,6/35,5	10,3/34	11,3/2,7
			Qv(w)[l/s]/Dp(w)[kPa]	0,09/1,07	0,10/1,36	0,11/1,64	0,12/1,914	0,13/2,62	0,13/2,46
		15	P[kW]/Tu[°C]	5,4/46,7	6,1/44,9	6,8/43,4	7,39/42	8/40,9	8,5/39,8
			Qv(w)[l/s]/Dp(w)[kPa]	0,07/0,68	0,07/0,85	0,08/1,02	0,09/1,19	0,10/1,63	0,10/1,53
	60/40	-7	P[kW]/Tu[°C]	5,3/24,3	6/22,6	6,6/21,1	7,2/19,8	7,8/18,7	8,3/17,7
			Qv(w)[l/s]/Dp(w)[kPa]	0,06/0,84	0,07/0,86	0,08/1,04	0,09/1,21	0,09/1,38	0,10/1,88
		0	P[kW]/Tu[°C]	4,47/26,5	5,1/25,1	5,6/23,7	6,2/22,8	6,6/21,8	7,1/20,1
			Qv(w)[l/s]/Dp(w)[kPa]	0,05/0,51	0,06/0,78	0,07/0,94	0,07/1,1	0,08/1,26	0,09/1,41
		15	P[kW]/Tu[°C]	2,4/29,2	2,8/28,7	3,26/28,6	3,6/28,3	4/27,9	4,27/27,5
			Qv(w)[l/s]/Dp(w)[kPa]	0,03/0,22	0,03/0,23	0,04/0,30	0,04/0,36	0,05/0,42	0,05/0,48
	Ti(w) [°C/°C]	Ti [°C]	*	Qv(L) [m³/h]					
				1000	1200	1400	1600	1800	2000
BLT-BIC 2000 W	80/60	-7	P[kW]/Tu[°C]	16/40,3	18,1/37,7	20/35,4	21,8/33,5	23,5/31,8	25,1/30,3
			Qv(w)[l/s]/Dp(w)[kPa]	0,19/8,66	0,22/8,8	0,24/10,6	0,27/12,36	0,29/14,16	0,31/19,6
		0	P[kW]/Tu[°C]	14,5/43	16,4/40,5	18,2/38,5	19,8/36,7	21,4/35,2	22,8/33,8
			Qv(w)[l/s]/Dp(w)[kPa]	0,18/7,31	0,20/9,12	0,22/8,9	2,9/12,8	0,26/14,64	0,28/16,49
		15	P[kW]/Tu[°C]	11,4/48,4	12,9/46,5	43,3/44,8	15,5/43,4	16,7/42,2	17,9/41,2
			Qv(w)[l/s]/Dp(w)[kPa]	0,14/3,84	0,16/4,79	0,17/5,74	0,19/6,7	0,20/7,66	0,22/8,62
	60/40	-7	P[kW]/Tu[°C]	11,4/26,8	12,9/24,9	14,2/23,2	15,5/21,8	16,7/20,6	17,8/19,5
			Qv(w)[l/s]/Dp(w)[kPa]	0,14/4,05	0,16/6,24	0,17/6,04	0,19/8,71	0,20/8,06	0,22/11,19
		0	P[kW]/Tu[°C]	9,9/29,3	11,2/27,6	12,4/26,2	13,5/25	14,5/23,9	15,5/23
			Qv(w)[l/s]/Dp(w)[kPa]	0,12/3,91	0,14/4,87	0,15/4,71	0,16/6,79	0,18/6,27	0,19/8,71
		15	P[kW]/Tu[°C]	6,7/34,4	7,5/33,3	8,3/32,4	9/31,6	9,7/30,8	10,4/30,2
			Qv(w)[l/s]/Dp(w)[kPa]	0,08/1,56	0,09/2,41	0,10/2,88	0,11/3,34	0,12/3,81	0,13/4,27
	Ti(w) [°C/°C]	Ti [°C]	*	Qv(L) [m³/h]					
				2600	2800	3000	3200	3400	3600
BLT-BIC 3000 W	80/60	-7	P[kW]/Tu[°C]	37,1/35,4	38,9/34,3	40,6/33,3	42,3/32,3	44/31,4	45,5/30,6
			Qv(w)[l/s]/Dp(w)[kPa]	0,45/6,32	0,47/6,89	0,50/7,47	0,52/8,05	0,54/8,62	0,56/9,2
		0	P[kW]/Tu[°C]	33,6/38,3	35,3/37,3	36,8/36,4	38,4/35,5	39,8/34,7	41,3/33,9
			Qv(w)[l/s]/Dp(w)[kPa]	0,41/5,28	0,43/5,76	0,45/6,24	0,47/6,72	0,49/7,2	0,50/7,68
		15	P[kW]/Tu[°C]	26,2/44,4	27,4/43,7	28,6/42,9	29,8/42,3	30,9/41,6	32/41
			Qv(w)[l/s]/Dp(w)[kPa]	0,32/3,34	0,33/3,64	0,35/3,94	0,36/4,24	0,38/4,53	0,39/4,83
	60/40	-7	P[kW]/Tu[°C]	25,9/22,6	27,1/21,8	28,4/21,1	29,5/20,5	30,6/19,8	31,7/19,2
			Qv(w)[l/s]/Dp(w)[kPa]	0,31/3,45	0,32/3,76	0,34/4,07	0,36/4,38	0,37/4,69	0,38/5,0
		0	P[kW]/Tu[°C]	22,3/25,4	23,4/24,8	24,4/24,1	25,5/23,6	26,4/23	27,4/22,5
			Qv(w)[l/s]/Dp(w)[kPa]	0,27/2,65	0,28/2,88	0,30/3,12	0,31/3,35	0,32/3,58	0,33/3,82
		15	P[kW]/Tu[°C]	14,4/31,2	15,1/30,8	15,8/30,4	16,4/30,1	17,1/29,7	17,7/29,4
			Qv(w)[l/s]/Dp(w)[kPa]	0,17/1,2	0,18/1,31	0,19/1,42	0,20/1,53	0,21/1,64	0,21/1,74
	Ti(w) [°C/°C]	Ti [°C]	*	Qv(L) [m³/h]					
				3800	4000	4200	4400	4600	-
BLT-BIC 4000 W	80/60	-7	P[kW]/Tu[°C]	47,1/29,8	48,5/29,1	50/28,4	51,4/27,7	52,8/27,1	-
			Qv(w)[l/s]/Dp(w)[kPa]	0,57/9,77	0,59/10,4	0,61/10,9	0,63/11,5	0,64/12,1	-
		0	P[kW]/Tu[°C]	42,6/33,2	44/32,6	45,3/31,9	46,6/31,3	47,8/30,8	-
			Qv(w)[l/s]/Dp(w)[kPa]	0,52/8,14	0,54/8,63	0,55/9,11	0,57/9,58	0,58/10,06	-
		15	P[kW]/Tu[°C]	32,6/40,1	34,1/40	35,1/39,5	36,1/39	37,1/38,6	-
			Qv(w)[l/s]/Dp(w)[kPa]	0,4/4,99	0,42/5,43	0,43/5,72	0,44/6,02	0,45/6,31	-
	60/40	-7	P[kW]/Tu[°C]	32,8/18,7	33,8/18,1	34,8/17,6	35,8/17,2	36,8/16,7	-
			Qv(w)[l/s]/Dp(w)[kPa]	0,4/5,3	0,41/5,61	0,42/5,91	0,43/6,22	0,44/6,52	-
		0	P[kW]/Tu[°C]	28,3/22	29,2/21,6	30/21,2	30,1/20,8	31,7/20,4	-
			Qv(w)[l/s]/Dp(w)[kPa]	0,34/4,05	0,35/4,29	0,36/4,52	0,37/4,75	0,38/4,98	-
		15	P[kW]/Tu[°C]	18,3/29,1	18,9/28,8	19,4/28,5	20/28,3	20,5/28	-
			Qv(w)[l/s]/Dp(w)[kPa]	0,22/1,85	0,23/1,95	0,24/2,06	0,24/2,16	0,25/2,27	-

Controllers

S-Touch



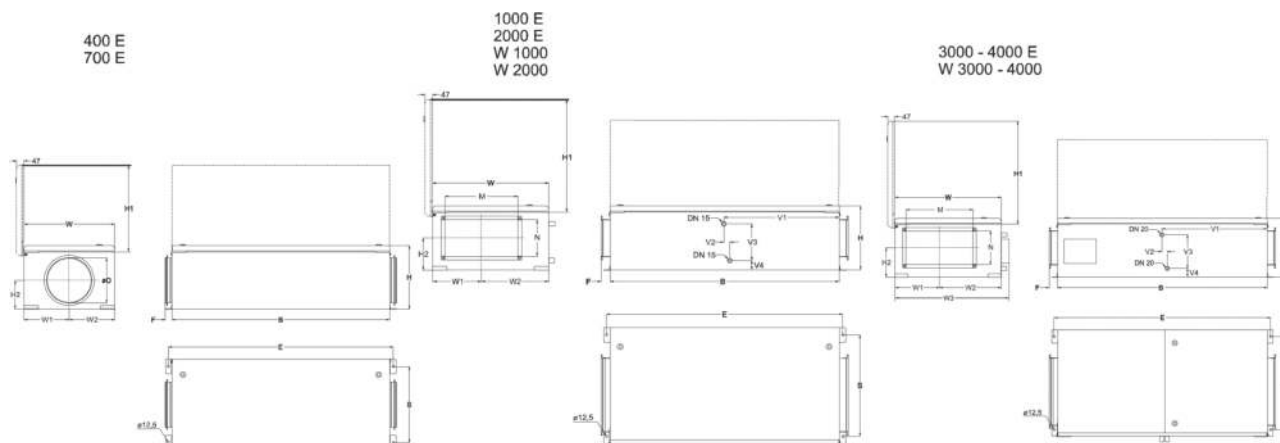
Temperatuur regeling
 Ventilator regeling
 4 programmeerbare snelheden
 Filterindicatie
 Incl. 13m kabel

MC HRS



Temperatuur regeling
 Ventilator snelheid
 Weektimer
 Filter indicatie
 Incl. 13m kabel

Fan casings



Unit	Dimensions																Aansluiting	Gewicht [kg]	
	W	W1	W2	W3	B	H	H1	H2	E	S	M	N	V1	V2	V3	V4			F
BTL-BIC 400 2,0 L1	450	225	225	-	1130	325	427	157	1171	370	-	-	-	-	-	-	30	Ø200	36
BTL-BIC 700 2,4 L1	500	250	250	-	1200	350	477	157	1241	420	-	-	-	-	-	-	40	Ø250	45
BTL-BIC 700 5,0 L1	500	250	250	-	1200	350	477	157	1241	420	-	-	-	-	-	-	40	Ø250	45
BTL-BIC 700 9,0 L1	500	250	250	-	1200	350	477	157	1241	420	-	-	-	-	-	-	40	Ø250	45
BTL-BIC 1000 2,4 L1	635	267	368	-	1250	350	612	174	1291	555	400	200	-	-	-	-	50	400x200	56
BTL-BIC 1000 9,0 L1	635	267	368	-	1250	350	612	174	1291	555	400	200	-	-	-	-	50	400x200	57
BTL-BIC 1000W	635	267	368	-	1250	350	612	174	1291	555	400	200	618	43	190	71	50	400x200	56
BTL-BIC 2000 15,0 L1	750	316	434	-	1550	460	727	249	1591	670	500	250	740	42	297	73	50	500x250	89
BTL-BIC 2000 21,0 L1	750	316	434	-	1550	460	727	249	1591	670	500	250	740	42	297	73	50	500x250	89
BTL-BIC 2000W	750	316	434	-	1550	460	727	249	1591	670	500	250	740	42	297	73	50	500x250	88
BTL-BIC 3000 30,0 L1	950	417	533	1065	1700	550	826	268	1526	992	700	400	845	38	360	78	50	700x400	139
BTL-BIC 3000W	950	417	533	1065	1700	550	826	268	1526	992	700	400	845	38	360	78	50	700x400	127
BTL-BIC 4000 39,0 L1	950	417	533	1065	1700	550	826	268	1526	992	700	400	845	38	360	78	50	700x400	143
BTL-BIC 4000W	950	417	533	1065	1700	550	826	268	1526	992	700	400	845	38	360	78	50	700x400	128

Sound data								
BTL-BIC 400	LWA totaal dB(A)	LWA dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlaat	67	50	56	65	61	43	47	34
Uitlaat	74	56	62	73	62	63	57	40
Omgeving*	53	37	41	51	45	38	37	24
BTL-BIC 700	LWA totaal dB(A)	LWA dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlaat	69	50	59	61	65	64	54	52
Uitlaat	75	62	68	73	63	53	46	40
Omgeving*	55	40	47	51	50	45	40	37
BTL-BIC 1000	LWA totaal dB(A)	LWA dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlaat	69	53	56	65	63	61	59	53
Uitlaat	75	64	70	72	65	56	53	49
Omgeving*	55	44	45	51	48	44	41	38
BTL-BIC 2000	LWA totaal dB(A)	LWA dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlaat	80	71	78	72	57	61	59	55
Uitlaat	48	75	80	79	74	73	70	67
Omgeving*	65	58	62	57	49	52	51	48
BTL-BIC 3000	LWA totaal dB(A)	LWA dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlaat	75	57	66	72	68	66	65	62
Uitlaat	82	60	70	75	78	75	71	63
Omgeving*	68	50	59	63	61	61	58	51
BTL-BIC 4000	LWA totaal dB(A)	LWA dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlaat	79	59	69	72	73	70	69	64
Uitlaat	86	61	73	79	83	79	76	69
Omgeving*	72	52	62	67	66	65	63	55

* Measured at 1m on max