

# BORA

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Air-cooled condensers

Refrigeration, air conditioning and process applications

For standard refrigerants

**Capacity: 14-325kW**



**BORA 50**

**BORA 63**

**BORA 80**

**BORA VS 80**

**BORA VS 91**

**KALTRA**

# BORA 50

Air-cooled condensers

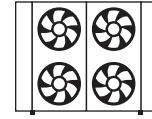
www.kaltra.de

<p>Ø 500 mm</p> <p>FAN DIAMETER</p>
<p>14 ÷ 230 kW</p> <p>CAPACITY DT-15°C</p>
<p>1 - 6</p> <p>NO. OF FANS</p>

## BORA 1000.50/11



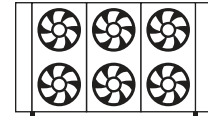
## BORA 2000.50/22



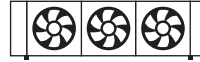
## BORA 2000.50/12



## BORA 3000.50/23

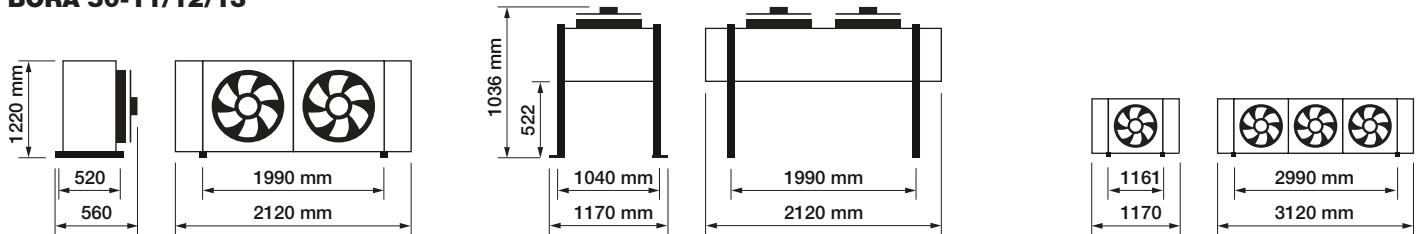


## BORA 3000.50/13

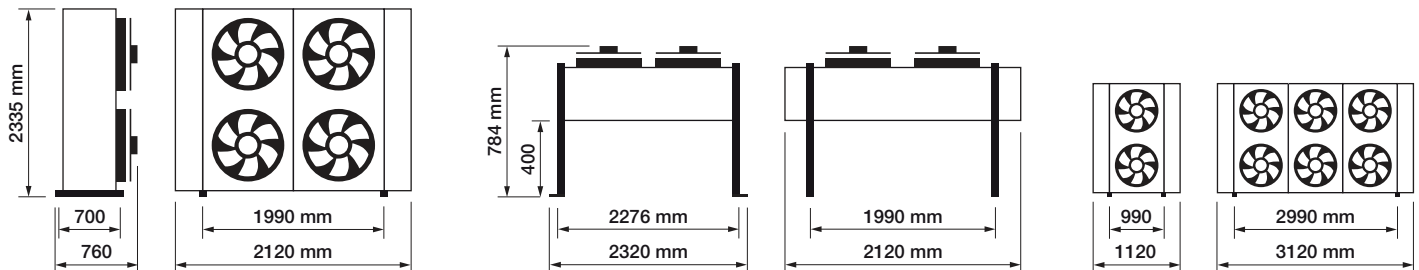


## DIMENSIONS

### BORA 50-11/12/13



### BORA 50-22/23



## UNIT IDENTIFICATION

**BORA MC H 1000 50 3 1 1 N A D 2**

<b>MC</b>	Microchannel condenser
<b>H</b>	H-horizontal/V-vertical
<b>1000</b>	Coil length
<b>50</b>	Fan diameter 500 mm
<b>3</b>	No. of phases

<b>1</b>	No. of rows
<b>1</b>	No. of fans
<b>N</b>	Noise level
<b>A</b>	A - asynchronous motor/E - electronic motor
<b>S</b>	D-delta connection/S-star connection
<b>2</b>	Coil passes

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Please check the current position with Kaltra

# BORA 50

Air-cooled condensers

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4Pole	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m	N	Nr. x Ø mm	Rpm	A	lt	kg	mm	mm
BORA MC 1000.50-3/11N.A-2	31,6	41,9	8190	0,6	43	37	1	500	1375	1,3	6,1	85	42	42
BORA MC 1000.50-3/11N.A-4	31,6	41,9	8190	0,6	43	37	1	500	1375	1,3	6,1	85	42	42
BORA MC 2000.50-3/12N.A-1	63,9	84,4	16560	1,2	46	40	2	500	1375	1,3	8,8	140	42	42
BORA MC 2000.50-3/12N.A-2	63,3	84,4	16560	1,2	46	40	2	500	1375	1,3	8,8	140	42	42
BORA MC 3000.50-3/13N.A-1	96,0	126,8	24930	1,8	47	41	3	500	1375	1,3	11,5	193	42	42
BORA MC 3000.50-3/13N.A-2	89,7	126,8	24930	1,8	47	41	3	500	1375	1,3	11,5	193	42	42
BORA MC 1000.50-3/21N.A-2	63,2	83,8	16380	1,2	46	40	2	500	1375	1,3	12,2	156	42	42
BORA MC 1000.50-3/21N.A-4	63,2	83,8	16380	1,2	46	40	2	500	1375	1,3	12,2	156	42	42
BORA MC 2000.50-3/22N.A-1	127,7	168,8	33120	2,4	48	42	4	500	1375	1,3	17,6	255	42	42
BORA MC 2000.50-3/22N.A-2	126,5	168,8	33120	2,4	49	42	4	500	1375	1,3	17,6	255	42	42
BORA MC 3000.50-3/23N.A-1	192,1	253,6	49860	3,6	50	44	6	500	1375	1,3	23	355	42	42
BORA MC 3000.50-3/23N.A-2	179,4	253,6	49860	3,6	50	44	6	500	1375	1,3	23	355	42	42

6Pole	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m	N	Nr. x Ø mm	Rpm	A	lt	kg	mm	mm
BORA MC 1000.50-3/11M.A-2	22,1	41,9	5340	0,23	34	28	1	500	940	0,66	6,1	83	42	42
BORA MC 1000.50-3/11M.A-4	22,3	41,9	5340	0,23	34	28	1	500	940	0,66	6,1	83	42	42
BORA MC 2000.50-3/12M.A-1	45,1	84,4	10870	0,46	37	31	2	500	940	0,66	8,8	136	42	42
BORA MC 2000.50-3/12M.A-2	45,2	84,4	10870	0,46	37	31	2	500	940	0,66	8,8	136	42	42
BORA MC 3000.50-3/13M.A-1	68,3	126,8	16400	0,69	38	32	3	500	940	0,66	11,5	187	42	42
BORA MC 3000.50-3/13M.A-2	66,2	126,8	16400	0,69	38	32	3	500	940	0,66	11,5	187	42	42
BORA MC 1000.50-3/21M.A-2	44,2	83,8	10680	0,46	37	31	2	500	940	0,66	12,2	150	42	42
BORA MC 1000.50-3/21M.A-4	44,6	83,8	10680	0,46	37	31	2	500	940	0,66	12,2	150	42	42
BORA MC 2000.50-3/22M.A-1	90,1	168,8	21740	0,92	39	33	4	500	940	0,66	17,6	247	42	42
BORA MC 2000.50-3/22M.A-2	90,4	168,8	21740	0,92	39	33	4	500	940	0,66	17,6	247	42	42
BORA MC 3000.50-3/23M.A-1	136,6	253,6	32800	1,38	41	35	6	500	940	0,66	23	343	42	42
BORA MC 3000.50-3/23M.A-2	132,4	253,6	32800	1,38	41	35	6	500	940	0,66	23	343	42	42

8Pole	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m	N	Nr. x Ø mm	Rpm	A	lt	kg	mm	mm
BORA MC 1000.50-3/11L.A-2	16,8	41,9	3850	0,13	27	21	1	500	690	0,39	6,1	83	42	42
BORA MC 1000.50-3/11L.A-4	16,9	41,9	3850	0,13	27	21	1	500	690	0,39	6,1	83	42	42
BORA MC 2000.50-3/12L.A-1	34,4	84,4	7910	0,26	30	24	2	500	690	0,39	8,8	136	42	42
BORA MC 2000.50-3/12L.A-2	34,7	84,4	7910	0,26	30	24	2	500	690	0,39	8,8	136	42	42
BORA MC 3000.50-3/13L.A-1	52,3	126,8	11960	0,39	31	25	3	500	690	0,39	11,5	187	42	42
BORA MC 3000.50-3/13L.A-2	51,5	126,8	11960	0,39	31	25	3	500	690	0,39	11,5	187	42	42
BORA MC 1000.50-3/21L.A-2	33,6	83,8	7700	0,26	30	24	2	500	690	0,39	12,1	150	42	42
BORA MC 1000.50-3/21L.A-4	33,8	83,8	7700	0,26	30	24	2	500	690	0,39	12,1	150	42	42
BORA MC 2000.50-3/22L.A-1	68,8	168,8	15820	0,52	32	26	4	500	690	0,39	17,6	247	42	42
BORA MC 2000.50-3/22L.A-2	69,3	168,8	15820	0,52	32	26	4	500	690	0,39	17,6	247	42	42
BORA MC 3000.50-3/23L.A-1	104,6	253,6	23920	0,78	34	28	6	500	690	0,39	23	343	42	42
BORA MC 3000.50-3/23L.A-2	103,1	253,6	23920	0,78	34	28	6	500	690	0,39	23	343	42	42

Capacity: R404A Tc=45°C Ts=75°C Ta=30°C

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# BORA 50

Air-cooled condensers

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4Pole ~1	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m	N	Nr. x Ø mm	Rpm	A	lt	kg	mm	mm
BORA MC 1000.50-1/11N.A-4	30,5	41,9	7860	0,57	42	36	1	500	1350	2,6	6,1	85	42	42
BORA MC 1000.50-1/11N.A-4	30,6	41,9	7860	0,57	42	36	1	500	1350	2,6	6,1	85	42	42
BORA MC 2000.50-1/12N.A-1	61,8	84,4	15910	1,14	43	39	2	500	1350	2,6	8,8	140	42	42
BORA MC 2000.50-1/12N.A-2	61,3	84,4	15910	1,14	43	39	2	500	1350	2,6	8,8	140	42	42
BORA MC 3000.50-1/13N.A-1	93,1	126,8	23960	1,71	46	40	3	500	1350	2,6	11,5	193	42	42
BORA MC 3000.50-1/13N.A-2	87,3	126,8	23960	1,71	46	40	3	500	1350	2,6	11,5	193	42	42
BORA MC 1000.50-1/21N.A-4	61,0	83,8	15720	1,14	42	39	2	500	1350	2,6	12,1	156	42	42
BORA MC 1000.50-1/21N.A-4	61,2	83,8	15720	1,14	42	39	2	500	1350	2,6	12,1	156	42	42
BORA MC 2000.50-1/22N.A-1	123,6	168,8	31820	2,28	47	41	4	500	1350	2,6	17,6	255	42	42
BORA MC 2000.50-1/22N.A-2	122,7	168,8	31820	2,28	47	41	4	500	1350	2,6	17,6	255	42	42
BORA MC 3000.50-1/23N.A-1	186,1	253,6	47920	3,42	49	43	6	500	1350	2,6	23	355	42	42
BORA MC 3000.50-1/23N.A-2	174,6	253,6	47920	3,42	49	43	6	500	1350	2,6	23	355	42	42

6Pole ~1	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m	N	Nr. x Ø mm	Rpm	A	lt	kg	mm	mm
BORA MC 1000.50-1/11M.A-2	21,9	41,9	5270	0,24	34	28	1	500	930	1,1	6,1	83	42	42
BORA MC 1000.50-1/11M.A-4	22,1	41,9	5270	0,24	34	28	1	500	930	1,1	6,1	83	42	42
BORA MC 2000.50-1/12M.A-1	44,6	84,4	10740	0,48	36	31	2	500	930	1,1	8,8	136	42	42
BORA MC 2000.50-1/12M.A-2	44,8	84,4	10740	0,48	36	31	2	500	930	1,1	8,8	136	42	42
BORA MC 3000.50-1/13M.A-1	67,6	126,8	16200	0,72	38	32	3	500	930	1,1	11,5	187	42	42
BORA MC 3000.50-1/13M.A-2	65,6	126,8	16200	0,72	38	32	3	500	930	1,1	11,5	187	42	42
BORA MC 1000.50-1/21M.A-1	43,8	41,9	10540	0,48	34	28	2	500	930	1,1	12,1	150	42	42
BORA MC 1000.50-1/21M.A-2	44,2	41,9	10540	0,48	34	28	2	500	930	1,1	12,1	150	42	42
BORA MC 2000.50-1/22M.A-1	89,2	168,8	21480	0,96	39	33	4	500	930	1,1	17,6	247	42	42
BORA MC 2000.50-1/22M.A-2	89,5	168,8	21480	0,96	39	33	4	500	930	1,1	17,6	247	42	42
BORA MC 3000.50-1/23M.A-1	135,2	253,6	32400	1,44	41	35	6	500	930	1,1	23	343	42	42
BORA MC 3000.50-1/23M.A-2	131,1	253,6	32400	1,44	41	35	6	500	930	1,1	23	343	42	42

8Pole ~1	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m	N	Nr. x Ø mm	Rpm	A	lt	kg	mm	mm
BORA MC 1000.50-1/11L.A-2	16,5	41,9	3780	0,14	27	21	1	500	680	0,56	6,1	83	42	42
BORA MC 1000.50-1/11L.A-4	16,7	41,9	3780	0,14	27	21	1	500	680	0,56	6,1	83	42	42
BORA MC 2000.50-1/12L.A-1	33,9	84,4	7770	0,28	30	24	2	500	680	0,56	8,8	136	42	42
BORA MC 2000.50-1/12L.A-2	34,1	84,4	7770	0,28	30	24	2	500	680	0,56	8,8	136	42	42
BORA MC 3000.50-1/13L.A-1	51,6	126,8	11760	0,42	31	25	3	500	680	0,56	11,5	187	42	42
BORA MC 3000.50-1/13L.A-2	50,8	126,8	11760	0,42	31	25	3	500	680	0,56	11,5	187	42	42
BORA MC 1000.50-1/21L.A-1	33,0	83,8	7560	0,28	30	24	2	500	680	0,56	12,2	150	42	42
BORA MC 1000.50-1/21L.A-2	33,4	83,8	7560	0,28	30	24	2	500	680	0,56	12,2	150	42	42
BORA MC 2000.50-1/22L.A-1	67,7	168,8	15540	0,56	32	26	4	500	680	0,56	17,6	247	42	42
BORA MC 2000.50-1/22L.A-2	68,3	168,8	15540	0,56	32	26	4	500	680	0,56	17,6	247	42	42
BORA MC 3000.50-1/23L.A-1	103,1	253,6	23520	0,84	34	28	6	500	680	0,56	23	343	42	42
BORA MC 3000.50-1/23L.A-2	101,7	253,6	23520	0,84	34	28	6	500	680	0,56	23	343	42	42

Capacity: R404A Tc=45°C Ts=75°C Ta=30°C

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# BORA 50

Air-cooled condensers

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EC Fan	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m	N	Nr. x Ø mm	Rpm	A	lt	kg	mm	mm
BORA MC 1000.50-3/11N.E-2	38,4	41,9	10430	1,08	46	43	1	500	1759	2,8	6,1	83	42	42
BORA MC 1000.50-3/11N.E-4	38,1	41,9	10430	1,08	46	43	1	500	1759	2,8	6,1	83	42	42
BORA MC 2000.50-3/12N.E-1	77,4	84,4	21020	2,16	52	46	2	500	1759	2,8	8,8	136	42	42
BORA MC 2000.50-3/12N.E-2	75,8	84,4	21020	2,16	52	46	2	500	1759	2,8	8,8	136	42	42
BORA MC 3000.50-3/13N.E-1	115,7	126,8	31620	3,24	53	47	3	500	1759	2,8	11,5	187	42	42
BORA MC 1000.50-3/21N.E-2	76,8	83,8	20860	2,16	46	43	2	500	1759	2,8	6,1	150	42	42
BORA MC 1000.50-3/21N.E-4	76,8	83,8	20860	2,16	46	43	2	500	1759	2,8	6,1	150	42	42
BORA MC 2000.50-3/22N.E-1	154,8	168,8	42040	4,32	54	48	4	500	1759	2,8	17,6	247	42	42
BORA MC 2000.50-3/22N.E-2	151,7	168,8	42040	4,32	54	48	4	500	1759	2,8	17,6	247	42	42
BORA MC 3000.50-3/23N.E-1	231,5	253,6	63240	6,48	56	50	6	500	1759	2,8	23	343	42	42

EC Fan ~1	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m	N	Nr. x Ø mm	Rpm	A	lt	kg	mm	mm
BORA MC 1000.50-3/11M.E-2	25,6	41,9	6350	0,31	36	30	1	500	1100	1,9	6,1	79	42	42
BORA MC 1000.50-3/11M.E-4	25,7	41,9	6350	0,31	36	30	1	500	1100	1,9	6,1	79	42	42
BORA MC 2000.50-3/12M.E-1	51,9	84,4	12880	0,62	39	33	2	500	1100	1,9	8,8	128	42	42
BORA MC 2000.50-3/12M.E-2	51,9	84,4	12880	0,62	39	33	2	500	1100	1,9	8,8	128	42	42
BORA MC 3000.50-3/13M.E-1	78,4	126,8	19400	0,93	40	34	3	500	1100	1,9	11,5	175	42	42
BORA MC 3000.50-3/13M.E-2	75,1	126,8	19400	0,93	40	34	3	500	1100	1,9	11,5	175	42	42
BORA MC 1000.50-3/21M.E-2	51,2	83,8	12700	0,62	39	33	2	500	1100	1,9	12,2	142	42	42
BORA MC 1000.50-3/21M.E-4	51,4	83,8	12700	0,62	39	33	2	500	1100	1,9	12,2	142	42	42
BORA MC 2000.50-3/22M.E-1	103,9	168,8	25760	1,24	41	35	4	500	1100	1,9	17,6	231	42	42
BORA MC 2000.50-3/22M.E-2	103,7	168,8	25760	1,24	41	35	4	500	1100	1,9	17,6	231	42	42
BORA MC 3000.50-3/23M.E-1	156,9	253,6	38800	1,86	43	37	6	500	1100	1,9	23	319	42	42
BORA MC 3000.50-3/23M.E-2	150,2	253,6	38800	1,86	43	37	6	500	1100	1,9	23	319	42	42

EC Fan ~1	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m	N	Nr. x Ø mm	Rpm	A	lt	kg	mm	mm
BORA MC 1000.50-1/11L.A-4	21,2	41,9	5070	0,22	33	27	1	500	900	1,1	6,1	77	42	42
BORA MC 1000.50-1/11L.A-4	21,4	41,9	5070	0,22	33	27	1	500	900	1,1	6,1	77	42	42
BORA MC 2000.50-1/12L.A-4	43,3	84,4	10360	0,44	36	30	2	500	900	1,1	8,8	124	42	42
BORA MC 2000.50-1/12L.A-4	43,4	84,4	10360	0,44	36	30	2	500	900	1,1	8,8	124	42	42
BORA MC 3000.50-1/13L.A-4	65,7	126,8	15650	0,66	37	31	3	500	900	1,1	11,5	169	42	42
BORA MC 3000.50-1/13L.A-4	63,8	126,8	15650	0,66	37	31	3	500	900	1,1	11,5	169	42	42
BORA MC 1000.50-1/21L.A-4	42,4	83,8	10140	0,44	36	30	2	500	900	1,1	12,2	138	42	42
BORA MC 1000.50-1/21L.A-4	42,8	83,8	10140	0,44	36	30	2	500	900	1,1	12,2	138	42	42
BORA MC 2000.50-1/22L.A-4	86,6	168,8	20720	0,88	38	32	4	500	900	1,1	17,6	223	42	42
BORA MC 2000.50-1/22L.A-4	86,9	168,8	20720	0,88	38	32	4	500	900	1,1	17,6	223	42	42
BORA MC 3000.50-1/23L.A-4	131,4	253,6	31300	1,32	40	34	6	500	900	1,1	23	307	42	42
BORA MC 3000.50-1/23L.A-4	127,7	253,6	31300	1,32	40	34	6	500	900	1,1	23	307	42	42

Capacity: R404A Tc=45°C Ts=75°C Ta=30°C

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# BORA 63

Air-cooled condensers

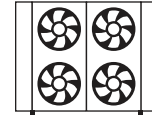
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<p>Ø 630 mm</p> <p>FAN DIAMETER</p>
<p>17 ÷ 280 kW</p> <p>CAPACITY DT-15°C</p>
<p>1 - 6</p> <p>NO. OF FANS</p>

## BORA 1000.63/11



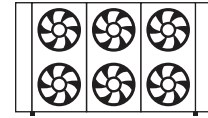
## BORA 2000.63/22



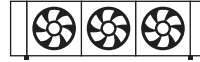
## BORA 2000.63/12



## BORA 3000.63/23

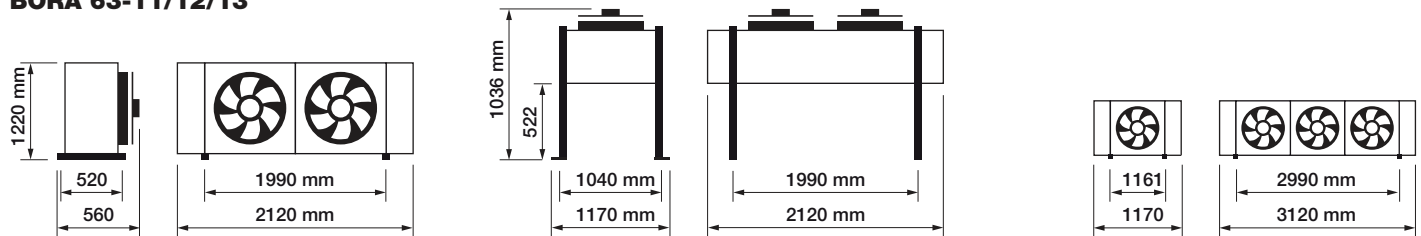


## BORA 3000.63/13

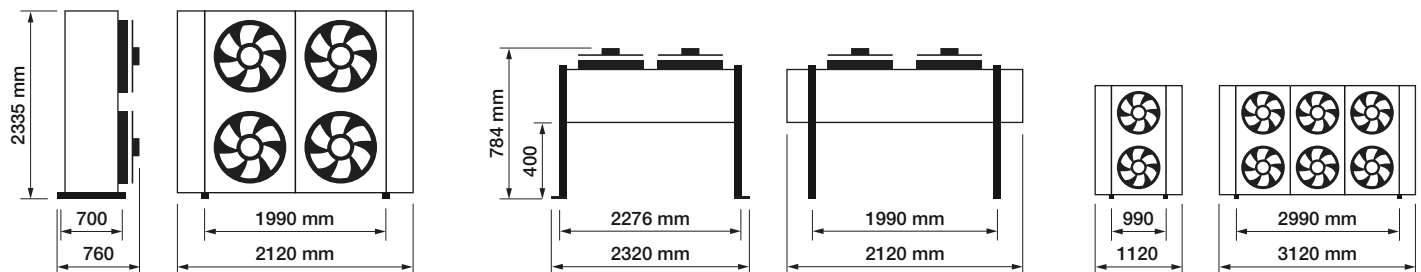


## DIMENSIONS

### BORA 63-11/12/13



### BORA 63-22/23



## UNIT IDENTIFICATION

**BORA MC H 1000 63 3 1 1 N A D 2**

<b>MC</b>	Microchannel condenser
<b>H</b>	H-horizontal/V-vertical
<b>1000</b>	Coil length
<b>63</b>	Fan diameter 630 mm
<b>3</b>	No. of phases

<b>1</b>	Fan Rows
<b>1</b>	No. of fans
<b>N</b>	Noise level
<b>A</b>	A - asynchronous motor/E - electronic motor
<b>S</b>	D-delta connection/S-star connection
<b>2</b>	Coil passes

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# BORA 63

Air-cooled condensers

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4Pole	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m	N	Nr. x Ø mm	Rpm	A	lt	kg	mm	mm
BORA MC 1000.63-3/11GN.A-2	47,1	41,9	13490	1,91	47	41	1	630	1310	3,2	6,1	101	42	42
BORA MC 1000.63-3/11GN.A-4	46,1	41,9	13490	1,91	47	41	1	630	1310	3,2	6,1	101	42	42
BORA MC 2000.63-3/12GN.A-1	95,0	84,4	27250	3,82	50	44	2	630	1310	3,2	8,8	172	42	42
BORA MC 2000.63-3/12GN.A-2	91,5	84,4	27250	3,82	50	44	2	630	1310	3,2	8,8	172	42	42
BORA MC 3000.63-3/13GN.A-1	140,9	126,8	41020	5,73	51	45	3	630	1310	3,2	11,5	241	42	42
BORA MC 1000.63-3/21GN.A-2	104,2	83,8	26980	3,82	50	44	2	630	1310	3,2	12,2	188	42	42
BORA MC 1000.63-3/21GN.A-4	102,2	83,8	26980	3,82	50	44	2	630	1310	3,2	12,2	188	42	42
BORA MC 2000.63-3/22GN.A-1	190,0	168,8	54500	7,64	52	46	4	630	1310	3,2	17,6	319	42	42
BORA MC 2000.63-3/22GN.A-2	183,0	168,8	54500	7,64	52	46	4	630	1310	3,2	17,6	319	42	42
BORA MC 3000.63-3/23GN.A-1	281,8	253,6	82040	11,46	54	48	6	630	1310	3,2	23	451	42	42

4Pole	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m	N	Nr. x Ø mm	Rpm	A	lt	kg	mm	mm
BORA MC 1000.63-3/11N.A-2	42,7	41,9	11910	1,14	51	45	1	63	1350	2,1	6,1	96	42	42
BORA MC 1000.63-3/11N.A-4	42,1	41,9	11910	1,14	51	45	1	63	1350	2,1	6,1	96	42	42
BORA MC 2000.63-3/12N.A-1	86,2	84,4	24070	2,28	54	48	2	63	1350	2,1	8,8	162	42	42
BORA MC 2000.63-3/12N.A-2	83,8	84,4	24070	2,28	54	48	2	63	1350	2,1	8,8	162	42	42
BORA MC 3000.63-3/13N.A-1	128,4	126,8	36240	3,42	55	49	3	63	1350	2,1	11,5	226	42	42
BORA MC 1000.63-3/21N.A-2	83,4	83,8	23820	2,28	54	48	2	63	1350	2,1	12,2	178	42	42
BORA MC 1000.63-3/21N.A-4	84,2	83,8	23820	2,28	54	48	2	63	1350	2,1	12,2	178	42	42
BORA MC 2000.63-3/22N.A-1	172,4	168,8	48140	4,56	56	50	4	63	1350	2,1	17,6	299	42	42
BORA MC 2000.63-3/22N.A-2	167,5	168,8	48140	4,56	56	50	4	63	1350	2,1	17,6	299	42	42
BORA MC 3000.63-3/23N.A-1	256,9	253,6	72480	6,84	58	52	6	63	1350	2,1	23	421	42	42

6Pole	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m	N	Nr. x Ø mm	Rpm	A	lt	kg	mm	mm
BORA MC 1000.63-3/11M.A-2	33,9	41,9	8950	0,53	41	35	1	63	970	1,43	6,1	94	42	42
BORA MC 1000.63-3/11M.A-4	33,8	41,9	8950	0,53	41	35	1	63	970	1,43	6,1	94	42	42
BORA MC 2000.63-3/12M.A-1	69,1	84,4	18250	1,06	44	38	2	63	970	1,43	8,8	158	42	42
BORA MC 2000.63-3/12M.A-2	68,2	84,4	18250	1,06	44	38	2	63	970	1,43	8,8	158	42	42
BORA MC 3000.63-3/13M.A-1	103,9	126,8	27550	1,59	45	39	3	63	970	1,43	11,5	220	42	42
BORA MC 1000.63-3/21M.A-2	67,8	83,8	17900	1,06	44	38	2	63	970	1,43	12,2	174	42	42
BORA MC 1000.63-3/21M.A-4	66,8	83,8	17900	1,06	44	38	2	63	970	1,43	12,2	174	42	42
BORA MC 2000.63-3/22M.A-1	138,2	168,8	36500	2,12	46	40	4	63	970	1,43	17,6	291	42	42
BORA MC 2000.63-3/22M.A-2	136,4	168,8	36500	2,12	46	40	4	63	970	1,43	17,6	291	42	42
BORA MC 3000.63-3/23M.A-1	207,9	253,6	55100	3,18	48	42	6	63	970	1,43	23	409	42	42

Capacity: R404A Tc=45°C Ts=75°C Ta=30°C

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# BORA 63

Air-cooled condensers

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8Pole	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m	N	Nr. x Ø mm	Rpm	A	lt	kg	mm	mm
BORA MC 1000.63-3/11L.A-2	25,9	41,9	6430	0,29	30	24	1	630	675	0,83	6,1	94	42	42
BORA MC 1000.63-3/11L.A-4	26,0	41,9	6430	0,29	30	24	1	630	675	0,83	6,1	94	42	42
BORA MC 2000.63-3/12L.A-1	53,0	84,4	13200	0,58	33	27	2	630	675	0,83	8,8	158	42	42
BORA MC 2000.63-3/12L.A-2	52,9	84,4	13200	0,58	33	27	2	630	675	0,83	8,8	158	42	42
BORA MC 3000.63-3/13L.A-1	80,4	126,8	19990	0,87	34	28	3	630	675	0,83	11,5	220	42	42
BORA MC 3000.63-3/13L.A-2	76,8	126,8	19990	0,87	34	28	3	630	675	0,83	11,5	220	42	42
BORA MC 1000.63-3/21L.A-2	51,8	83,8	12860	0,58	33	27	2	630	675	0,83	12,2	174	42	42
BORA MC 1000.63-3/21L.A-4	52,0	83,8	12860	0,58	33	27	2	630	675	0,83	12,2	174	42	42
BORA MC 2000.63-3/22L.A-1	106,0	168,8	26400	1,16	35	29	4	630	675	0,83	17,6	291	42	42
BORA MC 2000.63-3/22L.A-2	105,8	168,8	26400	1,16	35	29	4	630	675	0,83	17,6	291	42	42
BORA MC 3000.63-3/23L.A-1	160,8	253,6	39980	1,74	37	31	6	630	675	0,83	23	409	42	42
BORA MC 3000.63-3/23L.A-2	153,5	253,6	39980	1,74	37	31	6	630	675	0,83	23	409	42	42

6Pole -1	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m	N	Nr. x Ø mm	Rpm	A	lt	kg	mm	mm
BORA MC 1000.63-1/11M.A-4	33,2	41,9	8710	0,55	36	30	1	630	990	2,42	6,1	94	42	42
BORA MC 1000.63-1/11M.A-4	33,1	41,9	8710	0,55	36	30	1	630	990	2,42	6,1	94	42	42
BORA MC 2000.63-1/12M.A-4	67,6	84,4	17770	1,1	39	33	2	630	990	2,42	8,8	158	42	42
BORA MC 2000.63-1/12M.A-4	66,8	84,4	17770	1,1	39	33	2	630	990	2,42	8,8	158	42	42
BORA MC 3000.63-1/13M.A-4	101,8	126,8	26830	1,65	40	34	3	630	990	2,42	11,5	220	42	42
BORA MC 3000.63-1/13M.A-4	94,2	126,8	26830	1,65	40	34	3	630	990	2,42	11,5	220	42	42
BORA MC 1000.63-1/21M.A-4	66,4	83,8	17420	1,1	39	33	2	630	990	2,42	12,2	174	42	42
BORA MC 1000.63-1/21M.A-4	66,2	83,8	17420	1,1	39	33	2	630	990	2,42	12,2	174	42	42
BORA MC 2000.63-1/22M.A-4	135,3	168,8	35540	2,2	41	35	4	630	990	2,42	17,6	291	42	42
BORA MC 2000.63-1/22M.A-4	133,6	168,8	35540	2,2	41	35	4	630	990	2,42	17,6	291	42	42
BORA MC 3000.63-1/23M.A-4	203,6	253,6	53660	3,3	43	37	6	630	990	2,42	23	409	42	42
BORA MC 3000.63-1/23M.A-4	188,4	253,6	53660	3,3	43	37	6	630	990	2,42	23	409	42	42

8Pole -1	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m	N	Nr. x Ø mm	Rpm	A	lt	kg	mm	mm
BORA MC 1000.63-1/11L.A-4	26,2	41,9	6520	0,32	30	24	1	630	680	1,68	6,1	94	42	42
BORA MC 1000.63-1/11L.A-4	26,3	41,9	6520	0,32	30	24	1	630	680	1,68	6,1	94	42	42
BORA MC 2000.63-1/12L.A-4	53,6	84,4	13390	0,64	33	27	2	630	680	1,68	8,8	158	42	42
BORA MC 2000.63-1/12L.A-4	53,5	84,4	13390	0,64	33	27	2	630	680	1,68	8,8	158	42	42
BORA MC 3000.63-1/13L.A-4	81,3	126,8	20270	0,96	34	28	3	630	680	1,68	11,5	220	42	42
BORA MC 3000.63-1/13L.A-4	77,6	126,8	20270	0,96	34	28	3	630	680	1,68	11,5	220	42	42
BORA MC 1000.63-1/21L.A-4	52,4	83,8	13040	0,64	33	27	2	630	680	1,68	12,2	174	42	42
BORA MC 1000.63-1/21L.A-4	52,6	83,8	13040	0,64	33	27	2	630	680	1,68	12,2	174	42	42
BORA MC 2000.63-1/22L.A-4	107,3	168,8	26780	1,28	35	29	4	630	680	1,68	17,6	291	42	42
BORA MC 2000.63-1/22L.A-4	107,0	168,8	26780	1,28	35	29	4	630	680	1,68	17,6	291	42	42
BORA MC 3000.63-1/23L.A-4	162,6	253,6	40540	1,92	37	31	6	630	680	1,68	23	409	42	42
BORA MC 3000.63-1/23L.A-4	155,1	253,6	40540	1,92	37	31	6	630	680	1,68	23	409	42	42

Capacity: R404A Tc=45°C Ts=75°C Ta=30°C

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# BORA 63

Air-cooled condensers

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EC Fan	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m			Rpm					
BORA MC 1000.63-3/11N.E-2	41,6	41,9	11540	0,88	42	36	1	630	1156	1,5	6,1	91	42	42
BORA MC 1000.63-3/11N.E-4	41,1	41,9	11540	0,88	42	36	1	630	1156	1,5	6,1	91	42	42
BORA MC 2000.63-3/12N.E-1	84,2	84,4	23370	1,76	45	39	2	630	1156	1,5	8,8	152	42	42
BORA MC 2000.63-3/12N.E-2	82,0	84,4	23370	1,76	45	39	2	630	1156	1,5	8,8	152	42	42
BORA MC 3000.63-3/13N.E-1	125,6	126,8	35200	2,64	46	40	3	630	1156	1,5	11,5	211	42	42
BORA MC 1000.63-3/21N.E-2	83,2	83,8	13080	1,76	45	39	2	630	1156	1,5	12,2	168	42	42
BORA MC 1000.63-3/21N.E-4	82,2	83,8	13080	1,76	45	39	2	630	1156	1,5	12,2	168	42	42
BORA MC 2000.63-3/22N.E-1	168,4	168,8	46740	3,52	47	41	4	630	1156	1,5	17,6	279	42	42
BORA MC 2000.63-3/22N.E-2	164,0	168,8	46740	3,52	47	41	4	630	1156	1,5	17,6	279	42	42
BORA MC 3000.63-3/23N.E-1	251,3	253,6	70400	5,28	49	43	6	630	1156	1,5	23	391	42	42

EC Fan ~1	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m			Rpm					
BORA MC 1000.63-1/11M.E-2	30,7	41,9	7920	0,37	34	28	1	630	900	1,6	6,1	89	42	42
BORA MC 1000.63-1/11M.E-4	30,7	41,9	7920	0,37	34	28	1	630	900	1,6	6,1	89	42	42
BORA MC 2000.63-1/12M.E-1	62,6	84,4	16150	0,74	37	31	2	630	900	1,6	8,8	150	42	42
BORA MC 2000.63-1/12M.E-2	62,0	84,4	16150	0,74	37	31	2	630	900	1,6	8,8	150	42	42
BORA MC 3000.63-1/13M.E-1	94,4	126,8	24380	1,11	38	32	3	630	900	1,6	11,5	205	42	42
BORA MC 3000.63-1/13M.E-2	88,4	126,8	24380	1,11	38	32	3	630	900	1,6	11,5	205	42	42
BORA MC 1000.63-1/21M.E-2	61,4	83,8	15840	0,74	37	31	2	630	900	1,6	12,2	164	42	42
BORA MC 1000.63-1/21M.E-4	61,4	83,8	15840	0,74	37	31	2	630	900	1,6	12,2	164	42	42
BORA MC 2000.63-1/22M.E-1	125,1	168,8	32300	1,48	39	33	4	630	900	1,6	17,6	271	42	42
BORA MC 2000.63-1/22M.E-2	124,1	168,8	32300	1,48	39	33	4	630	900	1,6	17,6	271	42	42
BORA MC 3000.63-1/23M.E-1	188,7	253,6	48760	2,22	41	35	6	630	900	1,6	23	379	42	42
BORA MC 3000.63-1/23M.E-2	176,7	253,6	48760	2,22	41	35	6	630	900	1,6	23	379	42	42

EC Fan	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m			Rpm					
BORA MC 1000.63-1/11L.E-2	24,7	41,9	6090	0,17	30	24	1	630	710	1,1	6,1	87	42	42
BORA MC 1000.63-1/11L.E-4	24,9	41,9	6090	0,17	30	24	1	630	710	1,1	6,1	87	42	42
BORA MC 2000.63-1/12L.E-1	50,9	84,4	12580	0,34	33	27	2	630	710	1,1	8,8	146	42	42
BORA MC 2000.63-1/12L.E-2	50,9	84,4	12580	0,34	33	27	2	630	710	1,1	8,8	146	42	42
BORA MC 3000.63-1/13L.E-1	77,4	126,8	19080	0,52	34	28	3	630	710	1,1	11,5	199	42	42
BORA MC 3000.63-1/13L.E-2	74,2	126,8	19080	0,52	34	28	3	630	710	1,1	11,5	199	42	42
BORA MC 1000.63-1/21L.E-2	49,4	83,8	12180	0,34	33	27	2	630	710	1,1	12,2	160	42	42
BORA MC 1000.63-1/21L.E-4	49,8	83,8	12180	0,34	33	27	2	630	710	1,1	12,2	160	42	42
BORA MC 2000.63-1/22L.E-1	101,8	168,8	25160	0,69	35	29	4	630	710	1,1	17,6	263	42	42
BORA MC 2000.63-1/22L.E-2	101,8	168,8	25160	0,69	35	29	4	630	710	1,1	17,6	263	42	42
BORA MC 3000.63-1/23L.E-1	154,8	253,6	38160	1,03	37	31	6	630	710	1,1	23	367	42	42
BORA MC 3000.63-1/23L.E-2	148,4	253,6	38160	1,03	37	31	6	630	710	1,1	23	367	42	42

Capacity: R404A Tc=45°C Ts=75°C Ta=30°C

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# BORA 80

Air-cooled condensers

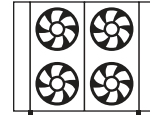
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<p>Ø 800 mm</p> <p>FAN DIAMETER</p>
<p>20 ÷ 325 kW</p> <p>CAPACITY DT-15°C</p>
<p>1 - 6</p> <p>NO. OF FANS</p>

## BORA 1000.80/11



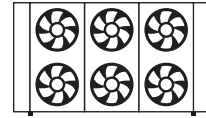
## BORA 2000.80/22



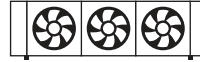
## BORA 2000.80/12



## BORA 3000.80/23

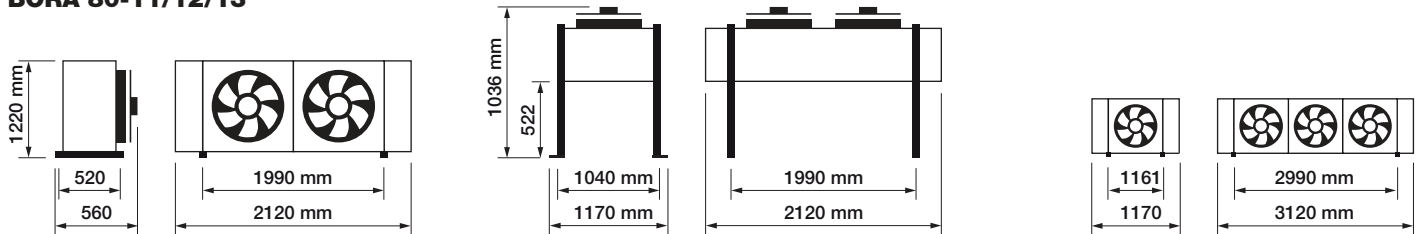


## BORA 3000.80/13

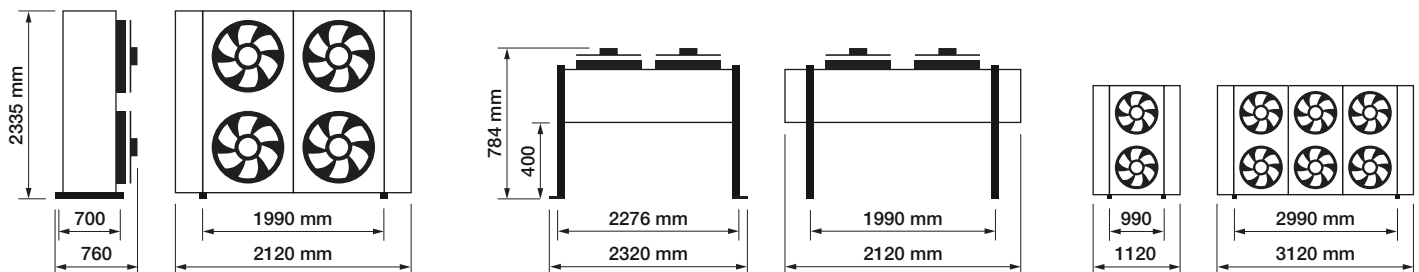


## DIMENSIONS

### BORA 80-11/12/13



### BORA 80-22/23



## UNIT IDENTIFICATION

**BORA MC H 1000 80 3 1 1 N A D 2**

<b>MC</b>	Microchannel condenser
<b>H</b>	H-horizontal/V-vertical
<b>1000</b>	Coil length
<b>80</b>	Fan diameter 800 mm
<b>3</b>	No. of phases

<b>1</b>	Fan Rows
<b>1</b>	No. of fans
<b>N</b>	Noise level
<b>A</b>	A - asynchronous motor/E - electronic motor
<b>S</b>	D-delta connection/S-star connection
<b>2</b>	Coil passes

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# BORA 80

Air-cooled condensers

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6Pole	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m	N	Nr. x Ø mm	Rpm	A	lt	kg	mm	mm
BORA MC 1000.80-3/11N.A-2	53,2	41,9	15780	1,8	45	39	1	800	890	3,78	6,1	111	42	42
BORA MC 1000.80-3/11N.A-4	51,6	41,9	15780	1,8	45	39	1	800	890	3,78	6,1	111	42	42
BORA MC 2000.80-3/12N.A-1	108,3	84,4	32290	3,6	48	42	2	800	890	3,78	8,8	192	42	42
BORA MC 2000.80-3/12N.A-2	102,8	84,4	32290	3,6	48	42	2	800	890	3,78	8,8	192	42	42
BORA MC 3000.80-3/13N.A-1	160,0	126,8	48800	5,4	49	43	3	800	890	3,78	11,5	271	42	42
BORA MC 1000.80-3/21N.A-2	106,4	83,8	31560	3,6	48	42	2	800	890	3,78	12,2	208	42	42
BORA MC 1000.80-3/21N.A-4	103,2	83,8	31560	3,6	48	42	2	800	890	3,78	12,2	208	42	42
BORA MC 2000.80-3/22N.A-1	216,6	168,8	64580	7,2	50	44	4	800	890	3,78	17,6	359	42	42
BORA MC 2000.80-3/22N.A-2	205,7	168,8	64580	7,2	50	44	4	800	890	3,78	17,6	359	42	42
BORA MC 3000.80-3/23N.A-1	319,9	253,6	97600	10,8	52	46	6	800	890	3,78	23	511	42	42

8Pole	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m	N	Nr. x Ø mm	Rpm	A	lt	kg	mm	mm
BORA MC 1000.80-3/11M.A-2	40,5	41,9	11160	0,88	38	32	1	800	670	2,26	6,1	111	42	42
BORA MC 1000.80-3/11M.A-4	40,1	41,9	11160	0,88	38	32	1	800	670	2,26	6,1	111	42	42
BORA MC 2000.80-3/12M.A-1	83,4	84,4	23070	1,76	41	35	2	800	670	2,26	8,8	192	42	42
BORA MC 2000.80-3/12M.A-2	81,2	84,4	23070	1,76	41	35	2	800	670	2,26	8,8	192	42	42
BORA MC 3000.80-3/13M.A-1	125,1	126,8	34990	2,64	42	36	3	800	670	2,26	11,5	271	42	42
BORA MC 1000.80-3/21M.A-2	81,0	83,8	22320	1,76	41	35	2	800	670	2,26	12,2	208	42	42
BORA MC 1000.80-3/21M.A-4	80,2	83,8	22320	1,76	41	35	2	800	670	2,26	12,2	208	42	42
BORA MC 2000.80-3/22M.A-1	166,7	168,8	46140	3,52	43	37	4	800	670	2,26	17,6	359	42	42
BORA MC 2000.80-3/22M.A-2	162,4	168,8	46140	3,52	43	37	4	800	670	2,26	17,6	359	42	42
BORA MC 3000.80-3/23M.A-1	250,1	253,6	69980	5,28	45	39	6	800	670	2,26	23	511	42	42

12Pole	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m	N	Nr. x Ø mm	Rpm	A	lt	kg	mm	mm
BORA MC 1000.80-1/11L.A-2	25,9	41,9	6450		29	23	1	800	435	1,1	6,1	107	42	42
BORA MC 1000.80-1/11L.A-4	26,1	41,9	6450		29	23	1	800	435	1,1	6,1	107	42	42
BORA MC 2000.80-1/12L.A-1	54,6	84,4	13690		32	26	2	800	435	1,1	8,8	184	42	42
BORA MC 2000.80-1/12L.A-2	54,5	84,4	13690		32	26	2	800	435	1,1	8,8	184	42	42
BORA MC 3000.80-1/13L.A-1	83,5	126,8	20940		33	27	3	800	435	1,1	11,5	269	42	42
BORA MC 3000.80-1/13L.A-2	79,4	126,8	20940		33	27	3	800	435	1,1	11,5	269	42	42
BORA MC 1000.80-1/21L.A-2	51,8	83,8	12900		32	26	2	800	435	1,1	12,2	200	42	42
BORA MC 1000.80-1/21L.A-4	52,2	83,8	12900		32	26	2	800	435	1,1	12,2	200	42	42
BORA MC 2000.80-1/22L.A-1	109,3	168,8	27380		34	28	3	800	435	1,1	11,5	343	42	42
BORA MC 2000.80-1/22L.A-2	108,9	168,8	27380		34	28	4	800	435	1,1	17,6	343	42	42
BORA MC 3000.80-1/23L.A-1	167,0	253,6	41880		36	30	4	800	435	1,1	23	487	42	42
BORA MC 3000.80-1/23L.A-2	158,8	253,6	41880		36	30	4	800	435	1,1	23	487	42	42

Capacity: R404A Tc=45°C Ts=75°C Ta=30°C

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# BORA 80

Air-cooled condensers

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EC Fan	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m	N	Nr. x Ø mm	Rpm	A	lt	kg	mm	mm
BORA MC 1000.80-3/11N.E-2	54,3	41,9	16190	1,65	46	40	1	800	900	2,6	6,1	107	42	42
BORA MC 1000.80-3/11N.E-4	52,6	41,9	16190	1,65	46	40	1	800	900	2,6	6,1	107	42	42
BORA MC 2000.80-3/12N.E-1	110,2	84,4	33010	3,3	49	43	2	800	900	2,6	8,8	184	42	42
BORA MC 2000.80-3/12N.E-2	104,4	84,4	33010	3,3	49	43	2	800	900	2,6	8,8	184	42	42
BORA MC 3000.80-3/13N.E-1	162,4	126,8	49840	4,95	50	44	3	800	900	2,6	11,5	269	42	42
BORA MC 1000.80-3/21N.E-2	108,6	83,8	32380	3,3	49	43	2	800	900	2,6	12,2	200	42	42
BORA MC 1000.80-3/21N.E-4	105,2	83,8	32380	3,3	49	43	2	800	900	2,6	12,2	200	42	42
BORA MC 2000.80-3/22N.E-1	220,3	168,8	66020	6,6	51	45	3	800	900	2,6	11,5	343	42	42
BORA MC 2000.80-3/22N.E-2	208,7	168,8	66020	6,6	51	45	4	800	900	2,6	17,6	343	42	42
BORA MC 3000.80-3/23N.E-1	324,8	253,6	99680	9,9	53	47	4	800	900	2,6	23	487	42	42

EC Fan	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m	N	Nr. x Ø mm	Rpm	A	lt	kg	mm	mm
BORA MC 1000.80-3/11M.E-2	43,5	41,9	12190	0,81	38	32	1	800	765	1,42	6,1	97	42	42
BORA MC 1000.80-3/11M.E-4	42,8	41,9	12190	0,81	38	32	1	800	765	1,42	6,1	97	42	42
BORA MC 2000.80-3/12M.E-1	88,8	84,4	25000	1,62	41	35	2	800	765	1,42	8,8	164	42	42
BORA MC 2000.80-3/12M.E-2	86,1	84,4	25000	1,62	41	35	2	800	765	1,42	8,8	164	42	42
BORA MC 3000.80-3/13M.E-1	132,6	126,8	37820	2,43	42	36	3	800	765	1,42	11,5	239	42	42
BORA MC 1000.80-3/21M.E-2	87,0	83,8	24380	1,62	41	35	2	800	765	1,42	12,2	180	42	42
BORA MC 1000.80-3/21M.E-4	85,6	83,8	24380	1,62	41	35	2	800	765	1,42	12,2	180	42	42
BORA MC 2000.80-3/22M.E-1	177,6	168,8	50000	3,24	43	37	3	800	765	1,42	11,5	303	42	42
BORA MC 2000.80-3/22M.E-2	172,2	168,8	50000	3,24	43	37	4	800	765	1,42	17,6	303	42	42
BORA MC 3000.80-3/23M.E-1	265,3	253,6	75640	6,48	45	39	4	800	765	1,42	23	427	42	42

EC Fan ~1	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m	N	Nr. x Ø mm	Rpm	A	lt	kg	mm	mm
BORA MC 1000.80-1/11L.E-2	27,4	41,9	6900		28	22	1	800	470	1	6,1	93	42	42
BORA MC 1000.80-1/11L.E-4	27,5	41,9	6900		28	22	1	800	470	1	6,1	93	42	42
BORA MC 2000.80-1/12L.E-1	57,1	84,4	14450		31	25	2	800	470	1	8,8	156	42	42
BORA MC 2000.80-1/12L.E-2	56,9	84,4	14450		31	25	2	800	470	1	8,8	156	42	42
BORA MC 3000.80-1/13L.E-1	86,9	126,8	22010		32	26	3	800	470	1	11,5	227	42	42
BORA MC 3000.80-1/13L.E-2	82,3	126,8	22010		32	26	3	800	470	1	11,5	227	42	42
BORA MC 1000.80-1/11L.E-2	54,8	83,8	13800		31	25	2	800	470	1	12,2	172	42	42
BORA MC 1000.80-1/11L.E-4	55,0	83,8	13800		31	25	2	800	470	1	12,2	172	42	42
BORA MC 2000.80-1/22L.E-1	114,2	168,8	28900		33	27	3	800	470	1	11,5	287	42	42
BORA MC 2000.80-1/22L.E-2	113,7	168,8	28900		33	27	4	800	470	1	17,6	287	42	42
BORA MC 3000.80-1/23L.E-1	173,8	253,6	44020		35	29	4	800	470	1	23	403	42	42
BORA MC 3000.80-1/23L.E-2	164,6	253,6	44020		35	29	4	800	470	1	23	403	42	42

Capacity: R404A Tc=45°C Ts=75°C Ta=30°C

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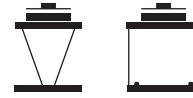
# BORA VS 80

Air-cooled condensers

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<p><b>Ø 800 mm</b></p> <p>FAN DIAMETER</p>
<p><b>39 ÷ 290 kW</b></p> <p>CAPACITY DT - 15°C</p>
<p><b>1 - 6</b></p> <p>NO. OF FANS</p>

**BORA VS 80-1**



**BORA VS 80-2**

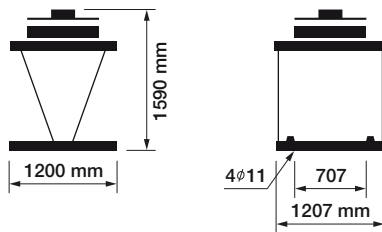


**BORA VS 80-3**

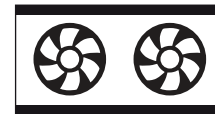
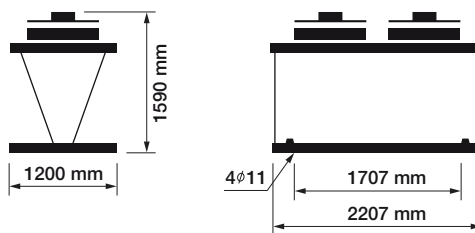


## DIMENSIONS

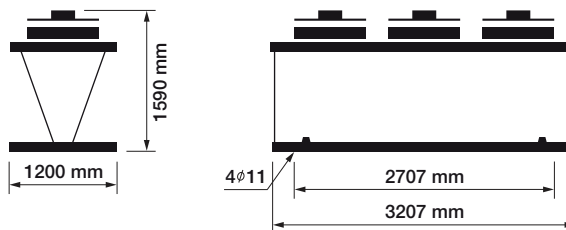
**BORA VS 80-1**



**BORA VS 80-2**



**BORA VS 80-3**



## UNIT IDENTIFICATION

**BORA MC VS 1000 80 3 1 N A D 2**

<b>MC</b>	Microchannel condenser
<b>VS</b>	V-Shape
<b>1000</b>	Coil length
<b>80</b>	Fan diameter 800 mm
<b>3</b>	No. of phases

<b>1</b>	No. of fans
<b>N</b>	Noise level
<b>A</b>	<b>A</b> - asynchronous motor/ <b>E</b> - electronic motor
<b>S</b>	<b>D</b> -delta connection/ <b>S</b> -star connection
<b>2</b>	Coil passes

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# BORA VS 80

Air-cooled condensers

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6Pole	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m	N	Nr. x Ø mm	Rpm	A	lt	kg	mm	mm
BORA MC VS 1000.80-3/1N.A-2	71,6	83,8	20110	1,58	49	43	1	800	900	3,44	12,60	177	42	42
BORA MC VS 1000.80-3/1N.A-4	72,3	83,8	20110	1,58	49	43	1	800	900	3,44	12,60	177	42	42
BORA MC VS 2000.80-3/2N.A-1	154,5	168,8	40760	3,16	52	46	2	800	900	3,44	18,60	298	42	42
BORA MC VS 2000.80-3/2N.A-2	150,2	168,8	40760	3,16	52	46	2	800	900	3,44	18,60	298	42	42
BORA MC VS 3000.80-3/3N.A-1	226,3	253,6	61420	4,74	53	47	3	800	900	3,44	24,80	421	42	42

8Pole	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m	N	Nr. x Ø mm	Rpm	A	lt	kg	mm	mm
BORA MC VS 1000.80-3/1M.A-2	58,0	83,8	14760	0,77	36	30	1	800	682	2,1	12,60	177	42	42
BORA MC VS 1000.80-3/1M.A-4	58,1	83,8	14760	0,77	36	30	1	800	682	2,1	12,60	177	42	42
BORA MC VS 2000.80-3/2M.A-1	118,0	168,8	30060	1,54	39	33	2	800	682	2,1	18,60	298	42	42
BORA MC VS 2000.80-3/2M.A-2	117,3	168,8	30060	1,54	39	33	2	800	682	2,1	18,60	298	42	42
BORA MC VS 3000.80-3/3M.A-1	178,1	253,6	45370	2,31	40	34	3	800	682	2,1	24,80	421	42	42
BORA MC VS 3000.80-3/3M.A-2	168,1	253,6	45370	2,31	40	34	3	800	682	2,1	24,80	421	42	42

12Pole	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m	N	Nr. x Ø mm	Rpm	A	lt	kg	mm	mm
BORA MC VS 1000.80-3/1L.A-2	38,8	83,8	9130	0,33	26	20	1	800	445	1,1	12,60	173	42	42
BORA MC VS 1000.80-3/1L.A-4	39,2	83,8	9130	0,33	26	20	1	800	445	1,1	12,60	173	42	42
BORA MC VS 2000.80-3/2L.A-1	79,9	168,8	18850	0,66	29	23	2	800	445	1,1	18,60	290	42	42
BORA MC VS 2000.80-3/2L.A-2	80,3	168,8	18850	0,66	29	23	2	800	445	1,1	18,60	290	42	42
BORA MC VS 3000.80-3/3L.A-1	121,7	253,6	28590	0,99	30	24	3	800	445	1,1	24,80	409	42	42
BORA MC VS 3000.80-3/3L.A-2	119,0	253,6	28590	0,99	30	24	3	800	445	1,1	24,80	409	42	42

Capacity: R404A Tc=45°C Ts=75°C Ta=30°C

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# BORA VS 80

Air-cooled condensers

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EC Fan	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m	N	Nr. x Ø mm	Rpm	A	lt	kg	mm	mm
BORA MC VS 1000.80-3/1H.E-2	97,3	83,8	28120	2,78	60	54	1	80	1178		12,60	187	42	42
BORA MC VS 1000.80-3/1H.E-4	95,1	83,8	28120	2,78	60	54	1	80	1178		12,60	187	42	42
BORA MC VS 2000.80-3/2H.E-1	195,8	168,8	56650	5,56	63	57	2	80	1178		18,60	318	42	42
BORA MC VS 2000.80-3/2H.E-2	188,0	168,8	56650	5,56	63	57	2	80	1178		18,60	318	42	42
BORA MC VS 3000.80-3/3H.E-1	289,8	253,6	85180	8,34	64	58	3	80	1178		24,80	451	42	42

EC Fan	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m	N	Nr. x Ø mm	Rpm	A	lt	kg	mm	mm
BORA MC VS 1000.80-3/1N.A-2	75,4	83,8	20380	1,39	49	43	1	800	926	2,24	12,60	175	42	42
BORA MC VS 1000.80-3/1N.A-4	74,8	83,8	20380	1,39	49	43	1	800	926	2,24	12,60	175	42	42
BORA MC VS 2000.80-3/2N.A-1	152,6	168,8	41290	2,78	52	46	2	800	926	2,24	18,60	294	42	42
BORA MC VS 2000.80-3/2N.A-2	149,6	168,8	41290	2,78	52	46	2	800	926	2,24	18,60	294	42	42
BORA MC VS 3000.80-3/3N.A-1	228,5	253,6	62200	4,17	53	47	3	800	926	2,24	24,80	415	42	42

EC Fan	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m	N	Nr. x Ø mm	Rpm	A	lt	kg	mm	mm
BORA MC VS 1000.80-3/1M.A-2	60,5	83,8	15550	0,64	36	30	1	800	690	1,13	12,60	167	42	42
BORA MC VS 1000.80-3/1M.A-4	60,6	83,8	15550	0,64	36	30	1	800	690	1,13	12,60	167	42	42
BORA MC VS 2000.80-3/2M.A-1	122,9	168,8	31590	1,28	39	33	2	800	690	1,13	18,60	277	42	42
BORA MC VS 2000.80-3/2M.A-2	122,0	168,8	31590	1,28	39	33	2	800	690	1,13	18,60	277	42	42
BORA MC VS 3000.80-3/3M.A-1	185,3	253,6	47650	1,92	40	34	3	800	690	1,13	24,80	391	42	42
BORA MC VS 3000.80-3/3M.A-1	173,9	253,6	47650	1,92	40	34	3	800	690	1,13	24,80	391	42	42

EC Fan ~1	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m	N	Nr. x Ø mm	Rpm	A	lt	kg	mm	mm
BORA MC VS 1000.80-1/1L.A-2	38,8	83,8	9130	0,19	26	20	1	800	470	1,2	12,60	164	42	42
BORA MC VS 1000.80-1/1L.A-4	39,2	83,8	9130	0,19	26	20	1	800	470	1,2	12,60	164	42	42
BORA MC VS 2000.80-1/2L.A-1	79,9	168,8	18850	0,38	29	23	2	800	470	1,2	18,60	271	42	42
BORA MC VS 2000.80-1/2L.A-2	80,3	168,8	18850	0,38	29	23	2	800	470	1,2	18,60	271	42	42
BORA MC VS 3000.80-1/3L.A-1	121,7	253,6	28590	0,57	30	24	3	800	470	1,2	24,80	382	42	42
BORA MC VS 3000.80-1/3L.A-1	119,0	253,6	28590	0,57	30	24	3	800	470	1,2	24,80	382	42	42

Capacity: R404A Tc=45°C Ts=75°C Ta=30°C

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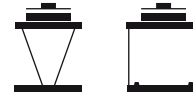
# BORA VS 91

Air-cooled condensers

www.kaltra.de

<p><b>Ø 910 mm</b></p> <p>FAN DIAMETER</p>
<p><b>49 ÷ 316 kW</b></p> <p>CAPACITY DT - 15°C</p>
<p><b>1 - 3</b></p> <p>NO. OF FANS</p>

**BORA VS 91-1**



**BORA VS 91-2**

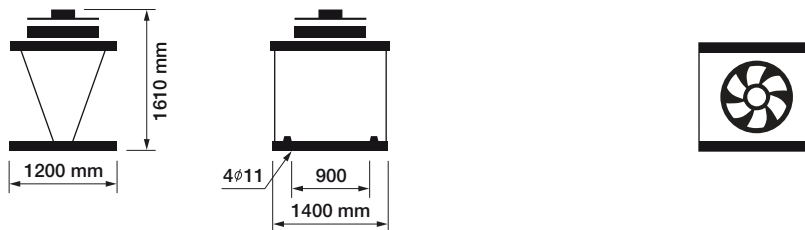


**BORA VS 91-3**

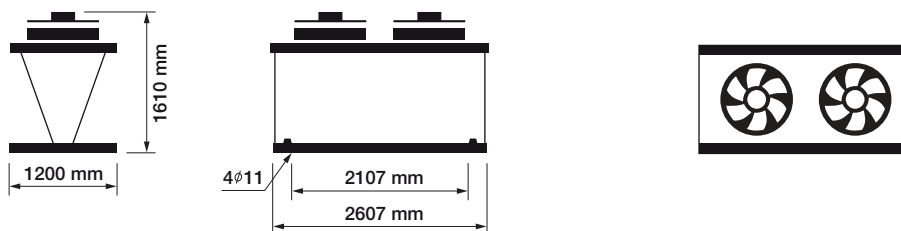


## DIMENSIONS

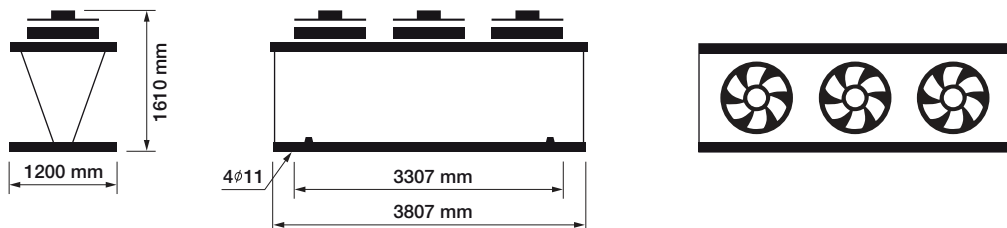
**BORA VS 91-1**



**BORA VS 91-2**



**BORA VS 91-3**



## UNIT IDENTIFICATION

**BORA MC VS 1250 91 3 1 N A D 2**

<b>MC</b>	Microchannel condenser
<b>VS</b>	V-Shape
<b>1250</b>	Coil length
<b>91</b>	Fan diameter 910mm
<b>3</b>	No. of phases

<b>1</b>	No. of fans
<b>N</b>	Noise level
<b>A</b>	<b>A</b> - asynchronous motor/ <b>E</b> - electronic motor
<b>S</b>	<b>D</b> -delta connection/ <b>S</b> -star connection
<b>2</b>	Coil passes

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# BORA VS 91

Air-cooled condensers

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6Pole	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m	N	Nr. x Ø mm	Rpm	A	lt	kg	mm	mm
BORA MC VS 1250.91-3/1N.A-2	102,0	97,0	27000	2,3	46	44	1	910	903	4,95	12,60	192	42	42
BORA MC VS 1250.91-3/1N.A-4	102,0	93,4	27000	2,3	46	44	1	910	903	4,95	12,60	192	42	42
BORA MC VS 2450.91-3/2N.A-1	188,0	195,7	54700	4,6	53	47	2	910	903	4,95	18,60	345	42	42
BORA MC VS 2450.91-3/2N.A-2	188,0	184,5	54700	4,6	53	47	2	910	903	4,95	18,60	345	42	42
BORA MC VS 3650.91-3/3N.A-1	287,0	287,3	82500	6,9	54	48	3	910	903	4,95	24,80	454	42	42

8Pole	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m	N	Nr. x Ø mm	Rpm	A	lt	kg	mm	mm
BORA MC VS 1250.91-3/1M.A-2	73,4	95,2	19050	1,05	39	33	1	910	666	2,71	12,60	189	42	42
BORA MC VS 1250.91-3/1M.A-4	72,1	95,2	19050	1,05	39	33	1	910	666	2,71	12,60	189	42	42
BORA MC VS 2450.91-3/2M.A-1	150,2	191,4	39200	2,1	42	36	2	910	666	2,71	18,60	339	42	42
BORA MC VS 2450.91-3/2M.A-2	145,6	191,4	39200	2,1	42	36	2	910	666	2,71	18,60	339	42	42
BORA MC VS 3650.91-3/3M.A-1	223,9	287,6	59200	3,15	43	37	3	910	666	2,71	24,80	445	42	42

12Pole	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m	N	Nr. x Ø mm	Rpm	A	lt	kg	mm	mm
BORA MC VS 1250.91-3/1L.A-2	50,0	95,2	12000	0,38	27	21	1	910	431	1,13	12,60	185	42	42
BORA MC VS 1250.91-3/1L.A-4	50,1	95,2	12000	0,38	27	21	1	910	431	1,13	12,60	185	42	42
BORA MC VS 2450.91-3/2L.A-1	101,3	191,4	24300	0,38	30	24	2	910	431	1,13	18,60	331	42	42
BORA MC VS 2450.91-3/2L.A-2	100,5	191,4	24300	0,38	30	24	2	910	431	1,13	18,60	331	42	42
BORA MC VS 3650.91-3/3L.A-1	154,1	287,6	37100	0,38	31	25	3	910	431	1,13	24,80	424	42	42
BORA MC VS 3650.91-3/3L.A-2	145,7	287,6	37100	0,38	31	25	3	910	431	1,13	24,80	424	42	42

Capacity: R404A Tc=45°C Ts=75°C Ta=30°C

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# BORA VS 91

Air-cooled condensers

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EC Fan	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m	N	Nr. x Ø mm	Rpm	A	lt	kg	mm	mm
BORA MC VS 1250.91-3/1H.E-2	110,7	95,2	32000	2,6	59	53	1	910	1070	4	12,60	203	42	42
BORA MC VS 1250.91-3/1H.E-4	105,1	95,2	32000	2,6	59	53	1	910	1070	4	12,60	203	42	42
BORA MC VS 2450.91-3/2H.E-1	222,2	191,4	64500	5,2	62	56	2	910	1070	4	18,60	367	42	42
BORA MC VS 3650.91-3/3H.E-1	323,2	287,6	97250	7,8	63	57	3	910	1070	4	24,80	487	42	42

EC Fan	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m	N	Nr. x Ø mm	Rpm	A	lt	kg	mm	mm
BORA MC VS 1250.91-3/1N.E-2	102,9	95,2	29150	2,05	50	44	1	910	978	3,2	12,60	199	42	42
BORA MC VS 1250.91-3/1N.E-4	98,5	95,2	29150	2,05	50	44	1	910	978	3,2	12,60	199	42	42
BORA MC VS 2450.91-3/2N.E-1	207,5	191,4	59000	4,1	53	47	2	910	978	3,2	18,60	359	42	42
BORA MC VS 3650.91-3/3N.E-1	303,1	287,6	88850	6,15	54	48	3	910	978	3,2	24,80	475	42	42

EC Fan	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m	N	Nr. x Ø mm	Rpm	A	lt	kg	mm	mm
BORA MC VS 1250.91-3/1M.E-2	90,9	95,2	24880	1,37	44	38	1	910	845	2,2	12,60	193	42	42
BORA MC VS 1250.91-3/1M.E-4	88,0	95,2	24880	1,37	44	38	1	910	845	2,2	12,60	193	42	42
BORA MC VS 2450.91-3/2M.E-1	183,8	191,4	50490	2,74	47	41	2	910	845	2,2	18,60	346	42	42
BORA MC VS 2450.91-3/2M.E-2	174,7	191,4	50490	2,74	47	41	2	910	845	2,2	18,60	346	42	42
BORA MC VS 3650.91-3/3M.E-1	270,9	287,6	76150	4,11	48	42	3	910	845	2,2	24,80	457	42	42

EC Fan	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m	N	Nr. x Ø mm	Rpm	A	lt	kg	mm	mm
BORA MC VS 1250.91-3/1L.E-2	68,0	95,2	17350	0,6	38	32	1	910	642	1	12,60	188	42	42
BORA MC VS 1250.91-3/1L.E-4	67,1	95,2	17350	0,6	38	32	1	910	642	1	12,60	188	42	42
BORA MC VS 2450.91-3/2L.E-1	139,3	191,4	35700	1,2	41	35	2	910	642	1	18,60	336	42	42
BORA MC VS 2450.91-3/2L.E-2	135,8	191,4	35700	1,2	41	35	2	910	642	1	18,60	336	42	42
BORA MC VS 3650.91-3/3L.E-1	207,8	287,6	53800	1,8	42	36	3	910	642	1	24,80	442	42	42

EC Fan ~1	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m	N	Nr. x Ø mm	Rpm	A	lt	kg	mm	mm
BORA MC VS 1250.91-1/1EL.E-2	48,6	95,2	11590	0,22	29	23	1	910	450	0,98	12,60	157	42	42
BORA MC VS 1250.91-1/1EL.E-4	48,6	95,2	11590	0,22	29	23	1	910	450	0,98	12,60	157	42	42
BORA MC VS 2450.91-1/2EL.E-1	100,8	191,4	24150	0,22	32	26	2	910	450	0,98	18,60	274	42	42
BORA MC VS 2450.91-1/2EL.E-2	100,0	191,4	24150	0,22	32	26	2	910	450	0,98	18,60	274	42	42
BORA MC VS 3650.91-1/3EL.E-1	152,3	287,6	36550	0,22	33	27	3	910	450	0,98	24,80	348	42	42
BORA MC VS 3650.91-1/3EL.E-1	144,1	287,6	36550	0,22	33	27	3	910	450	0,98	24,80	348	42	42

Capacity: R404A Tc=45°C Ts=75°C Ta=30°C

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**BORA 50**  
**BORA 63**  
**BORA 80**  
**BORA VS 80**  
**BORA VS 91**



**KALTRA**

# BORA

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Air-cooled condensers

Refrigeration, air conditioning and process applications

For standard refrigerants

**Capacity: 41-303kW**



**BORA VS 80 EVap**  
**BORA VS 91 EVap**

**KALTRA**

January 2018

# BORA VS 80 EVap

Air-cooled condensers

www.kaltra.de

<p>Ø 800 mm</p> <p>FAN DIAMETER</p>
<p>41 ÷ 253 kW</p> <p>CAPACITY DT - 15°C</p>
<p>1 - 3</p> <p>NUMBERS OF FANS</p>

**BORA VS 80-1 EVap**



**BORA VS 80-2 EVap**

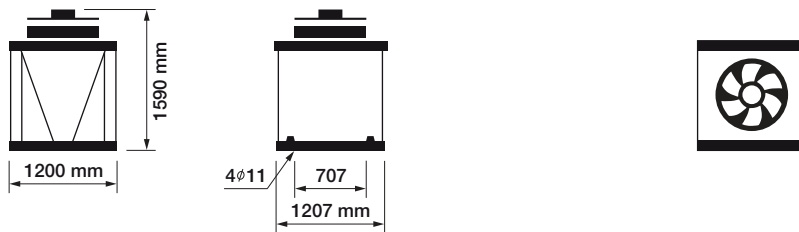


**BORA VS 80-3 EVap**

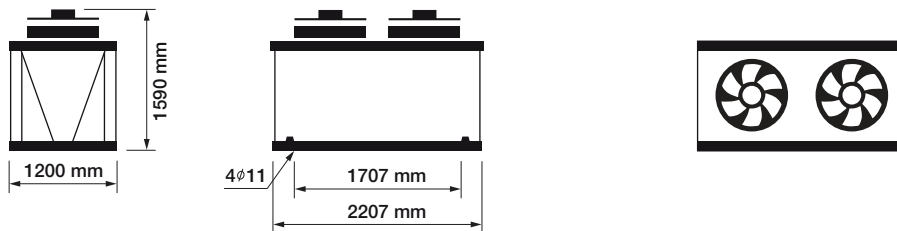


## DIMENSIONS

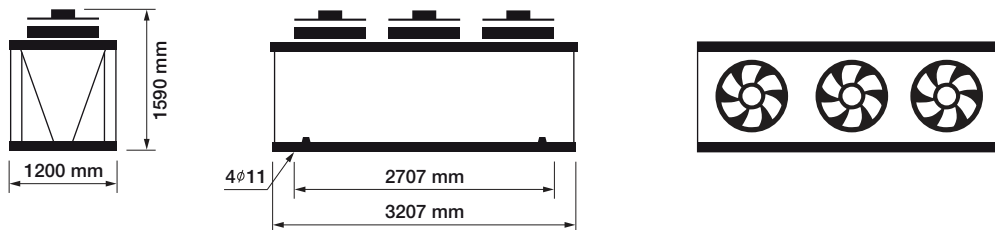
**BORA VS 80-1 EVap**



**BORA VS 80-2 EVap**



**BORA VS 80-3 EVap**



## UNIT IDENTIFICATION

**BORA MC VS 1000 80 3 1 N E 2 EVap**

<b>MC</b>	Microchannel coil
<b>VS</b>	V-Shape
<b>1000</b>	Coil length
<b>80</b>	Fan diameter 800mm
<b>3</b>	No. of phases

<b>1</b>	No. of fans
<b>N</b>	Noise level/N - normal/M - medium/L - low
<b>E</b>	E - electronic motor
<b>2</b>	Coil passes
<b>EVap</b>	Evaporative pre-cooling

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# BORA VS 80 EVap

Air-cooled condensers

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EC FAN	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m	N	Nr. x Ø mm	Rpm	A	lit	kg	mm	mm
W3G800KS3903														
BORA MC VS 1000.80-3/1N.E-2EVap	84,8	83,8	17200	1,65	46	43	1	800	923	2,62	12,60	249	42	42
BORA MC VS 1000.80-3/1N.E-4EVap	84,0	83,8	17200	1,65	46	43	1	800	923	2,62	12,60	249	42	42
BORA MC VS 2000.80-3/2N.E-1EVap	169,9	168,8	34400	3,3	52	46	2	800	923	2,62	18,60	417	42	42
BORA MC VS 2000.80-3/2N.E-2EVap	166,7	168,8	34400	3,3	52	46	2	800	923	2,62	18,60	417	42	42
BORA MC VS 3000.80-3/3N.E-1EVap	253,4	253,6	51600	4,95	53	47	3	800	923	2,62	24,80	588	42	42

EC FAN	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m	N	Nr. x Ø mm	Rpm	A	lit	kg	mm	mm
W3G800KE5751														
BORA MC VS 1000.80-3/1M.E-2EVap	62,0	83,8	11790	0,64	40	34	1	800	715	1,01	12,60	235	42	42
BORA MC VS 1000.80-3/1M.E-4EVap	62,1	83,8	11790	0,64	40	34	1	800	715	1,01	12,60	235	42	42
BORA MC VS 2000.80-3/2M.E-1EVap	124,3	168,8	23580	1,28	43	37	2	800	715	1,01	18,60	389	42	42
BORA MC VS 2000.80-3/2M.E-2EVap	123,7	168,8	23580	1,28	43	37	2	800	715	1,01	18,60	389	42	42
BORA MC VS 3000.80-3/3M.E-1EVap	186,6	253,6	35370	1,92	44	38	3	800	715	1,01	24,80	546	42	42
BORA MC VS 3000.80-3/3M.E-2EVap	178,5	253,6	35370	1,92	44	38	3	800	715	1,01	24,80	546	42	42

EC FAN	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m	N	Nr. x Ø mm	Rpm	A	lit	kg	mm	mm
W3G800GA7751														
BORA MC VS 1000.80-3/1L.E-2EVap	44,9	83,8	8060	0,28	30	24	1	800	445	0,5	12,60	229	42	42
BORA MC VS 1000.80-3/1L.E-4EVap	45,1	83,8	8060	0,28	30	24	1	800	445	0,5	12,60	229	42	42
BORA MC VS 2000.80-3/2L.E-1EVap	89,9	168,8	16120	0,56	33	27	2	800	445	0,5	18,60	377	42	42
BORA MC VS 2000.80-3/2L.E-2EVap	90,2	168,8	16120	0,56	33	27	2	800	445	0,5	18,60	377	42	42
BORA MC VS 3000.80-3/3L.E-1EVap	135,5	253,6	24180	0,84	34	28	3	800	445	0,5	24,80	530	42	42
BORA MC VS 3000.80-3/3L.E-2EVap	132,7	253,6	24180	0,84	34	28	3	800	445	0,5	24,80	530	42	42

EC Fan ~1	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m²	m³	kW	[dB(A)] 5m	[dB(A)] 10m	N	Nr. x Ø mm	Rpm	A	lit	kg	mm	mm
W3G800GA7741														
BORA MC VS 1000.80-3/1L.E-2EVap	41,4	83,8	7350	0,23	28	22	1	800	490	1,03	12,60	229	42	42
BORA MC VS 1000.80-3/1L.E-4EVap	41,7	83,8	7350	0,23	28	22	1	800	490	1,03	12,60	229	42	42
BORA MC VS 2000.80-3/2L.E-1EVap	83,0	168,8	14700	0,46	31	25	2	800	490	1,03	18,60	377	42	42
BORA MC VS 2000.80-3/2L.E-2EVap	83,4	168,8	14700	0,46	31	25	2	800	490	1,03	18,60	377	42	42
BORA MC VS 3000.80-3/3L.E-1EVap	125,2	253,6	22050	0,69	32	26	3	800	490	1,03	24,80	530	42	42
BORA MC VS 3000.80-3/3L.E-2EVap	123,1	253,6	22050	0,69	32	26	3	800	490	1,03	24,80	530	42	42

Capacity: Tc=45°C Tair=35°C RH=40%

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# BORA VS 91 EVap

Air-cooled condensers

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Ø 910 mm  
FAN DIAMETER

55 ÷ 303 kW  
CAPACITY DT - 15°C

1 - 3  
NUMBERS OF FANS

**BORA VS 91-1 EVap**



**BORA VS 91-2 EVap**

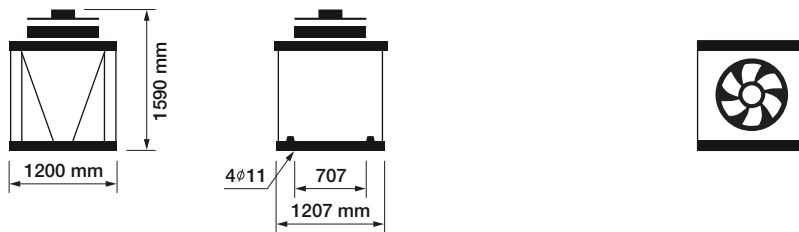


**BORA VS 91-3 EVap**

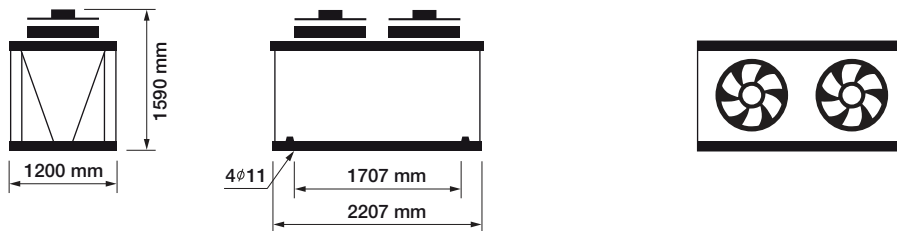


## DIMENSIONS

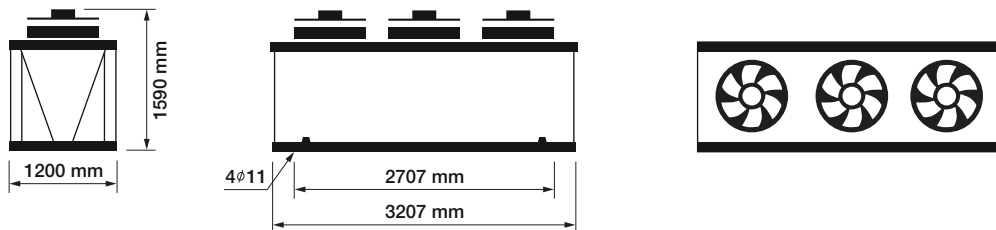
**BORA VS 91-1 EVap**



**BORA VS 91-2 EVap**



**BORA VS 91-3 EVap**



## UNIT IDENTIFICATION

**BORA MC VS 1250 91 3 1 N E 2 EVap**

<b>MC</b>	Microchannel coil
<b>VS</b>	V-Shape
<b>1250</b>	Coil length
<b>91</b>	Fan diameter 910mm
<b>3</b>	No. of phases

<b>1</b>	No. of fans
<b>N</b>	Noise level/N - normal/M - medium/L - low
<b>E</b>	E - electronic motor
<b>2</b>	Coil passes
<b>EVap</b>	Evaporative pre-cooling

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# BORA VS 91 EVap

Air-cooled condensers

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EC Fan	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m <sup>2</sup>	m <sup>3</sup>	kW	[dB(A) 5m]	[dB(A) 10m]	N	Nr. x Ø mm	Rpm	A	lt	kg	mm	mm
BORA MC VS 1250.91-3/1N.E-2 Evap	102,7	95,2	20680,0	1,5	48	42	1	910	833	2,32	12,60	275	42	42
BORA MC VS 1250.91-3/1N.E-4 Evap	100,0	95,2	20680,0	1,5	48	42	1	910	833	2,32	12,60	275	42	42
BORA MC VS 2450.91-3/2N.E-1 Evap	205,3	191,4	41360,0	3	51	45	2	910	833	2,32	18,60	486	42	42
BORA MC VS 3650.91-3/3N.E-1 Evap	302,9	287,6	62040,0	4,5	52	46	3	910	833	2,32	24,80	656	42	42

EC Fan	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m <sup>2</sup>	m <sup>3</sup>	kW	[dB(A) 5m]	[dB(A) 10m]	N	Nr. x Ø mm	Rpm	A	lt	kg	mm	mm
BORA MC VS 1250.91-3/1M.E-2 Evap	94,6	95,2	18560,0	1,08	44	38	1	910	740	1,72	12,60	268	42	42
BORA MC VS 1250.91-3/1M.E-4 Evap	92,7	95,2	18560,0	2,16	44	38	1	910	740	1,72	12,60	268	42	42
BORA MC VS 2450.91-3/2M.E-1 Evap	189,2	191,4	37120,0	2,16	47	41	2	910	740	1,72	18,60	472	42	42
BORA MC VS 3650.91-3/3M.E-1 Evap	280,1	287,6	55680,0	3,24	48	42	3	910	740	1,72	24,80	635	42	42

EC Fan	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m <sup>2</sup>	m <sup>3</sup>	kW	[dB(A) 5m]	[dB(A) 10m]	N	Nr. x Ø mm	Rpm	A	lt	kg	mm	mm
BORA MC VS 1250.91-3/1M2.E-2 Evap	75,9	95,2	13750	0,68	39	33	1	910	640	1,12	12,60	263	42	42
BORA MC VS 1250.91-3/1M2.E-4 Evap	75,3	95,2	13750	0,68	39	33	1	910	640	1,12	12,60	263	42	42
BORA MC VS 2450.91-3/2M2.E-1 Evap	152,0	191,4	27500	1,36	42	36	2	910	640	1,12	18,60	462	42	42
BORA MC VS 2450.91-3/2M2.E-2 Evap	149,4	191,4	27500	1,36	42	36	2	910	640	1,12	18,60	462	42	42
BORA MC VS 3650.91-3/3M2.E-1 Evap	226,7	287,6	41250	2,04	43	37	3	910	640	1,12	24,80	620	42	42

EC Fan ~1	CAPACITY	SURFACE	AIR FLOW	POWER	SOUND PRESSURE	SOUND PRESSURE	N° FANS	DIAMETER FAN Ø	FAN SPEED	CURRENT	VOLUME	WEIGHT	Ø IN	Ø OUT
	kW	m <sup>2</sup>	m <sup>3</sup>	kW	[dB(A) 5m]	[dB(A) 10m]	N	Nr. x Ø mm	Rpm	A	lt	kg	mm	mm
BORA MC VS 1250.91-3/1L.E-2 Evap	54,7	95,2	8950	0,25	30	24	1	910	450	1,13	12,60	251	42	42
BORA MC VS 1250.91-3/1L.E-4 Evap	54,8	95,2	8950	0,25	30	24	1	910	450	1,13	12,60	251	42	42
BORA MC VS 2450.91-3/2L.E-1 Evap	109,6	191,4	17900	0,5	33	27	2	910	450	1,13	18,60	438	42	42
BORA MC VS 2450.91-3/2L.E-2 Evap	109,1	191,4	17900	0,5	33	27	2	910	450	1,13	18,60	438	42	42
BORA MC VS 3650.91-3/3L.E-1 Evap	164,5	287,6	26850	0,75	34	28	3	910	450	1,13	24,80	584	42	42
BORA MC VS 3650.91-3/3L.E-2 Evap	158,7	287,6	26850	0,75	34	28	3	910	450	1,13	24,80	584	42	42

Capacity: Tc=45°C Tair=35°C RH=40%

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# BORA VS 80 EVap BORA VS 91 EVap



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