

PRODUCT DESCRIPTION:

The volumetric lobe vacuum pumps “B” series are machines that, thanks to the conjugated rotation without contact of two rotors (with two lobes) within a suitably shaped chamber, create volumes and transfer air through the inlet manifold to the outlet one.

They operate completely dry without any lubrication or residues generated by brushing or contact during rotation. These pumps do not actually compress the gas they elaborate but transfer it from the inlet mouth to the outlet one.

In the vacuum sector, the volumetric lobe vacuum pumps should always be inserted in series with other pumps, normally of a lower flow, known as primary pumps (“L” series lubricated pumps).

This way the unit (“CBL” pumping systems) is capable of:

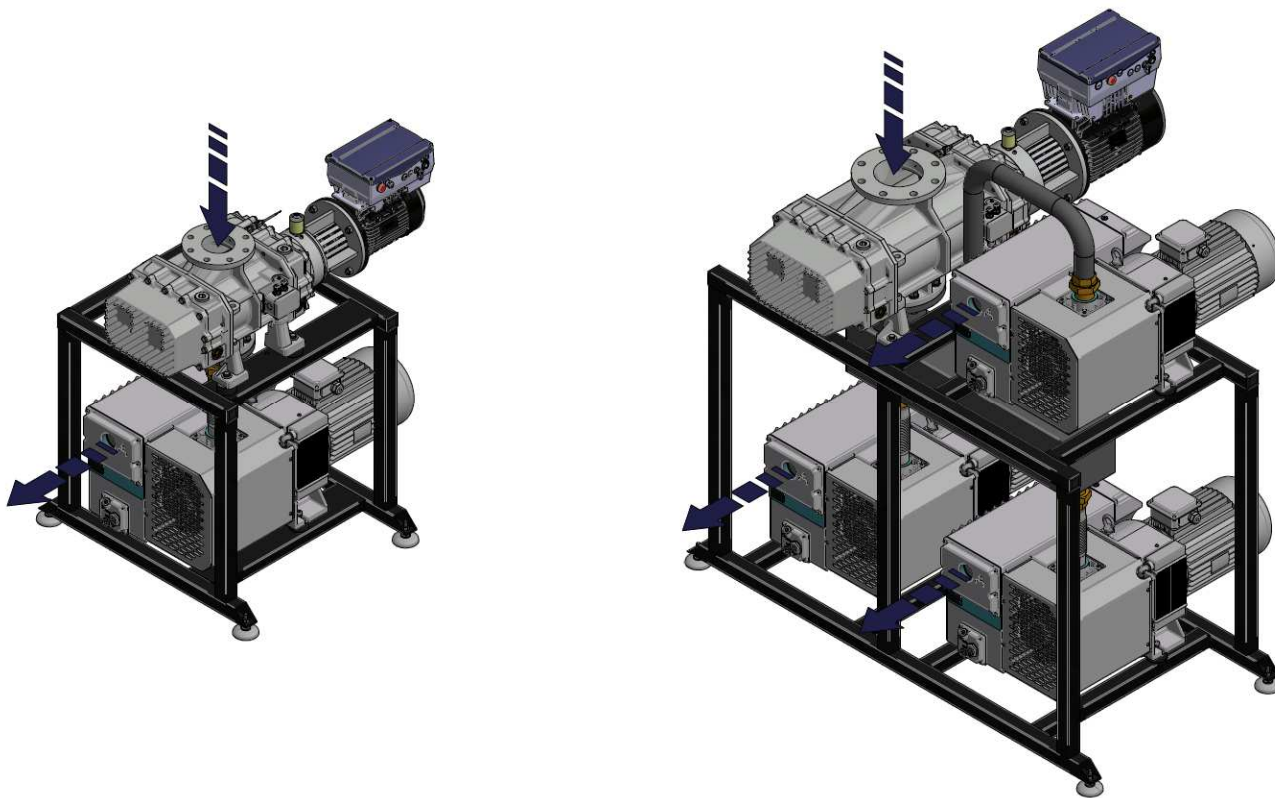
- Achieving extremely low-end pressure levels (normally 10 times lower than what can be achieved with just the primary pump).
- Accelerating the emptying times of a closed volume.

As the primary pump flow is normally lower than that of the lobe pump, it is clear that, in the presence of insufficiently rarefied air, the volumetric pump could transfer an amount of air greater than the primary pump is capable of elaborating and this, as well as damaging it, can cause overheating and a subsequent seizure of the lobe pump.

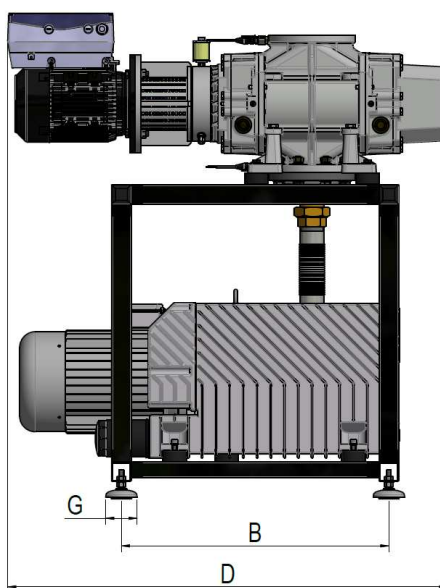
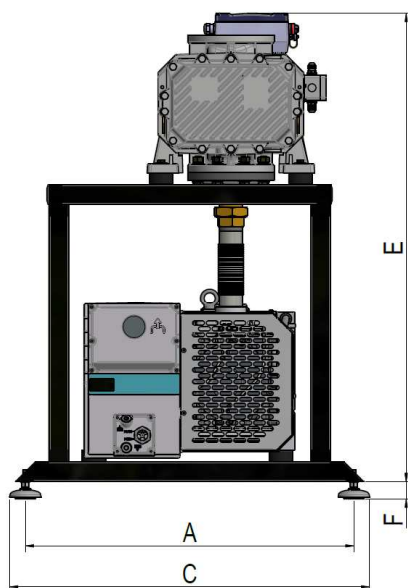
For setting up the CBL groups, DVP uses volumetric lobe vacuum pumps with AdaptShield technology. These systems reach best volumetric efficiency and self-adapt to working conditions. AdaptShield technology guarantees a high level of protection against failures.

Subject to change without prior notice

Main accessories	CBL 106/300	CBL 205/500 CBL 305/500 CBL 305/1000	CBL 2x305/1500 CBL 2x305/2000 CBL 3x305/3000
Booster inlet filter	9001108	9001109	9001110



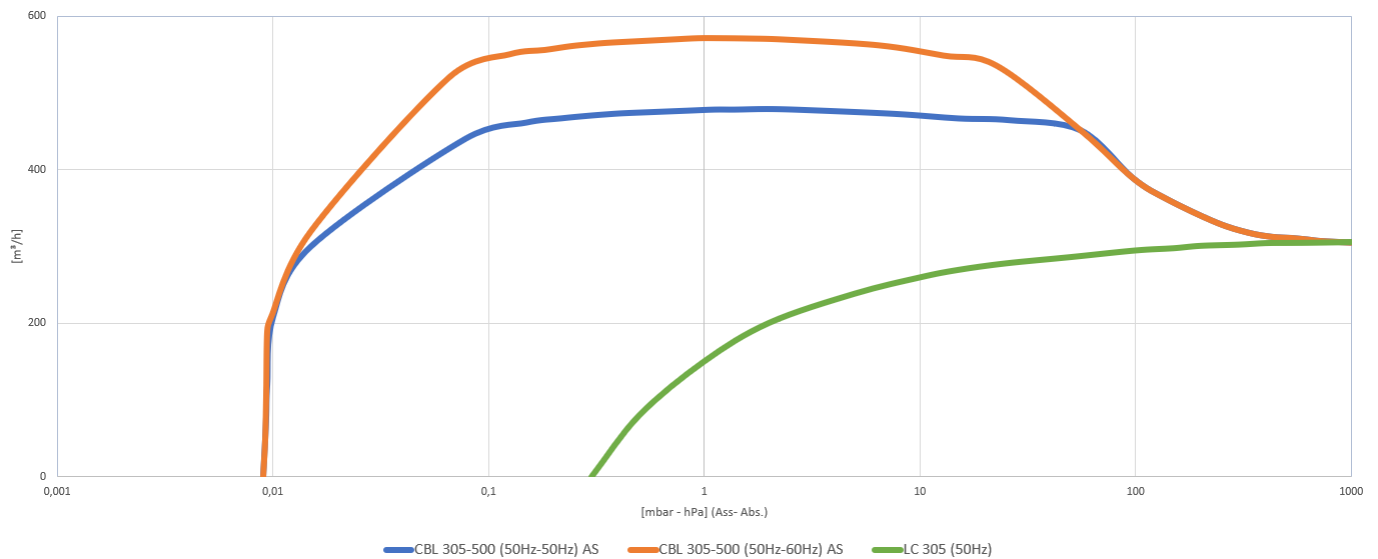
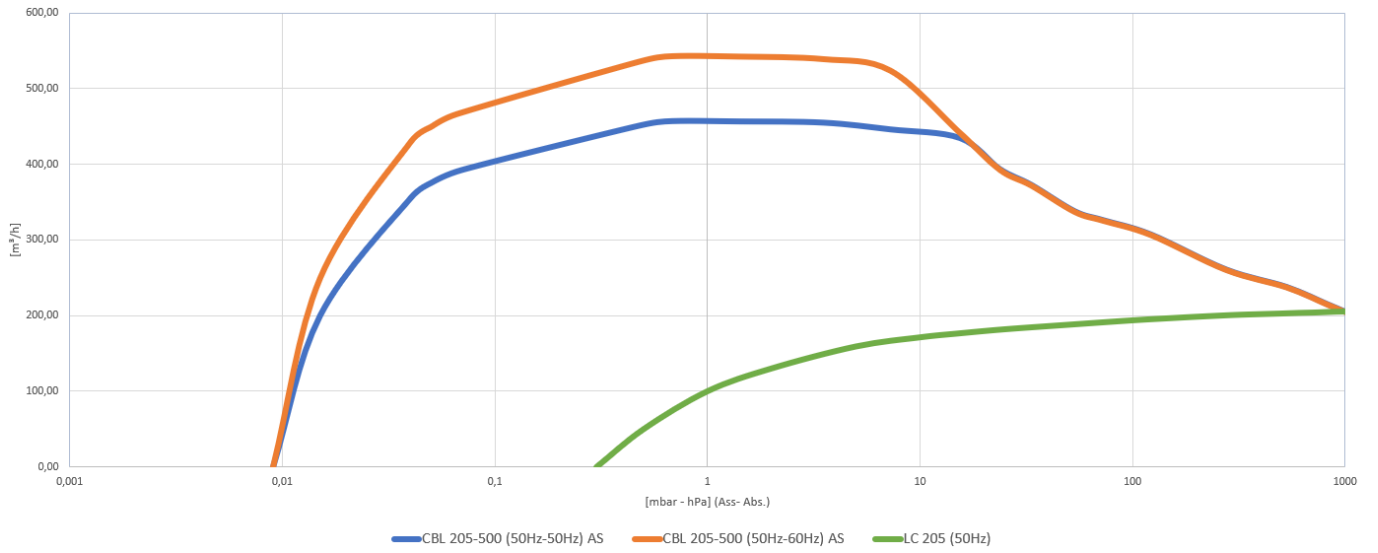
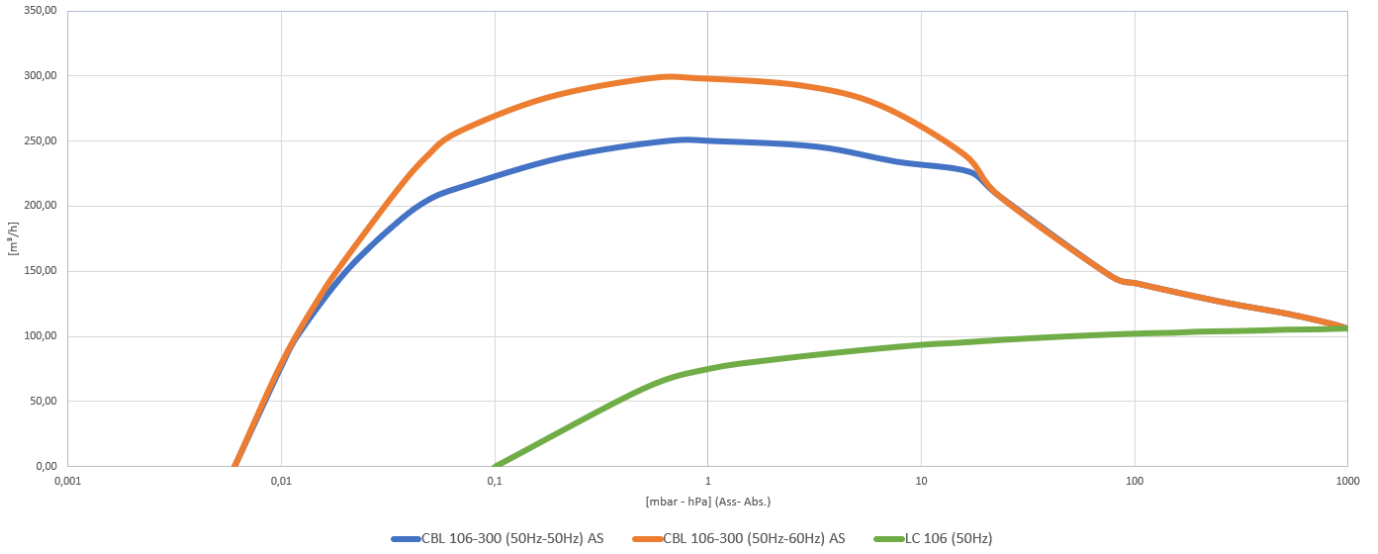
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	CBL 106/300
	CBL 205/500 CBL 305/500 CBL 305/1000
	CBL 2x305/1500 CBL 2x305/2000 CBL 3x305/3000

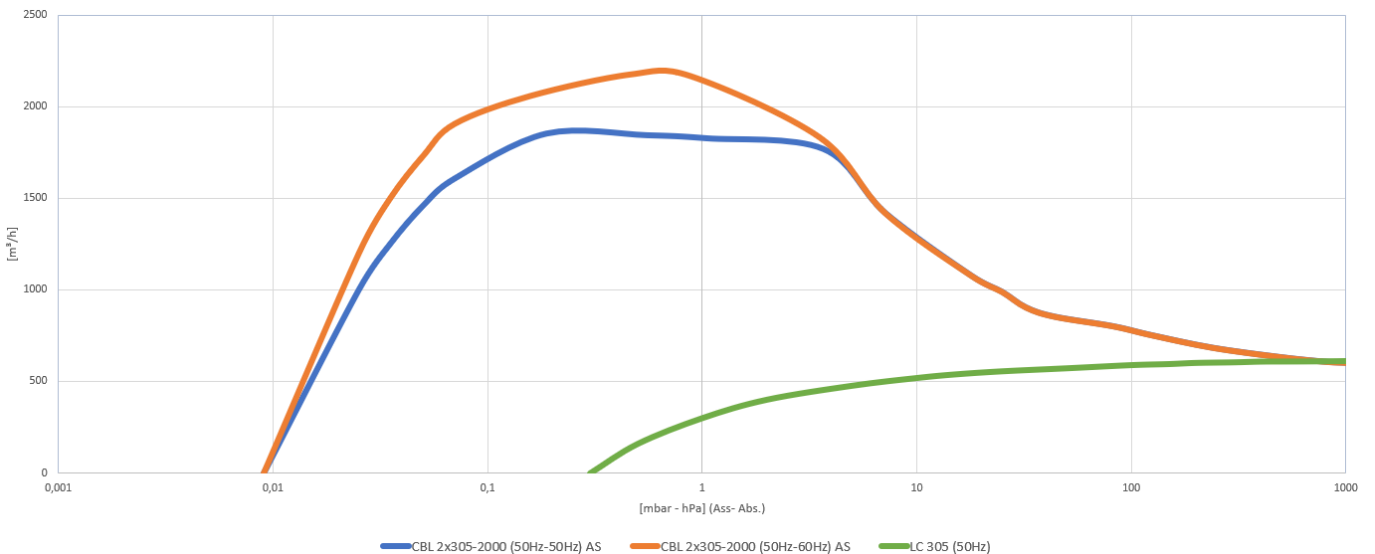
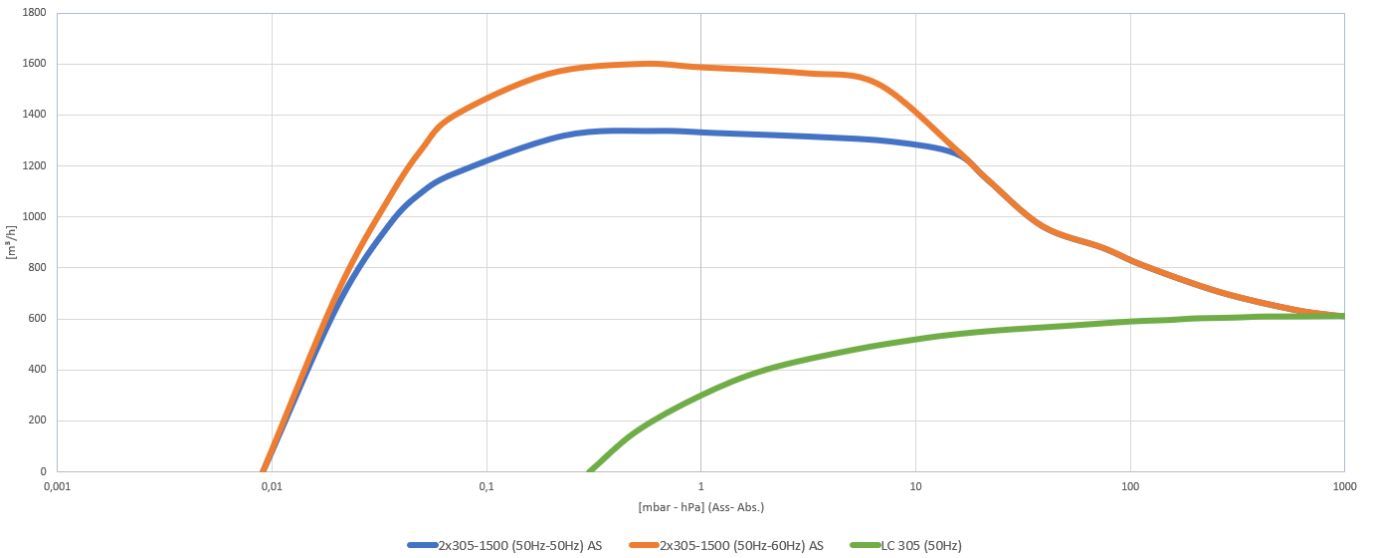
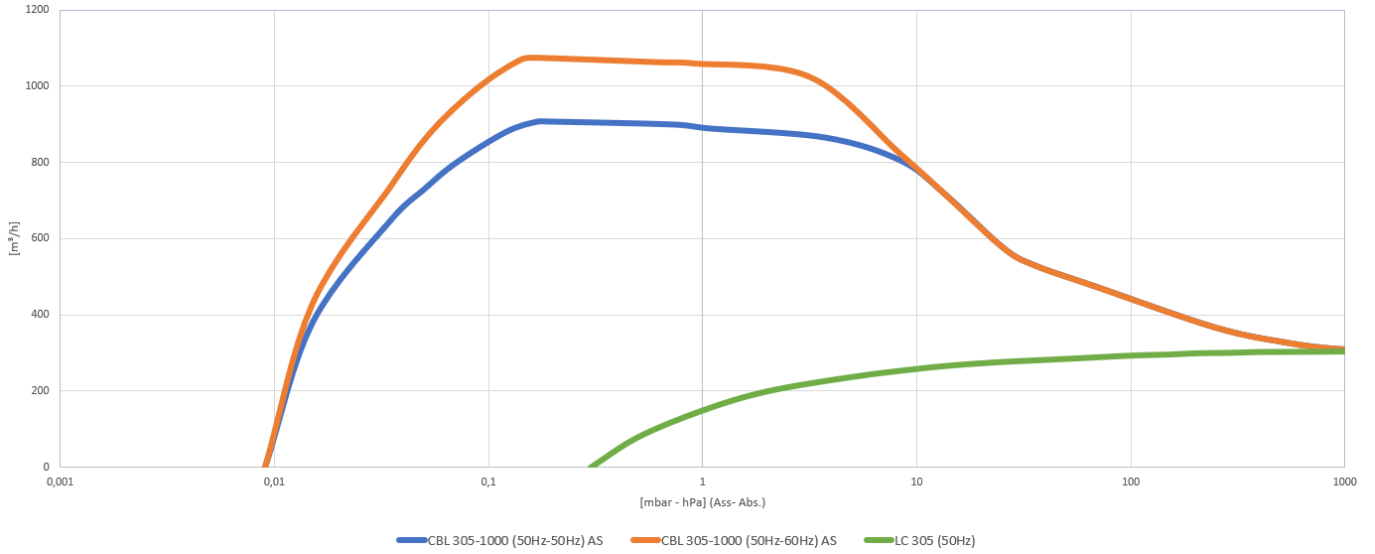
Model	Dimensions						
	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
CBL 106/300	835	680	915	822	1133	45	80
CBL 205/500	835	680	915	980	1174	45	80
CBL 305/500	835	680	915	1034	1144	45	80
CBL 305/1000	835	680	915	1119	1196	45	80
CBL 2x305/1500	1667	758	1747	1232	1514	45	80
CBL 2x305/2000	1667	758	1747	1280	1614	45	80
CBL 3x305/3000	1667	758	1747	1440	1774	45	80

Operating curves for continuous duty

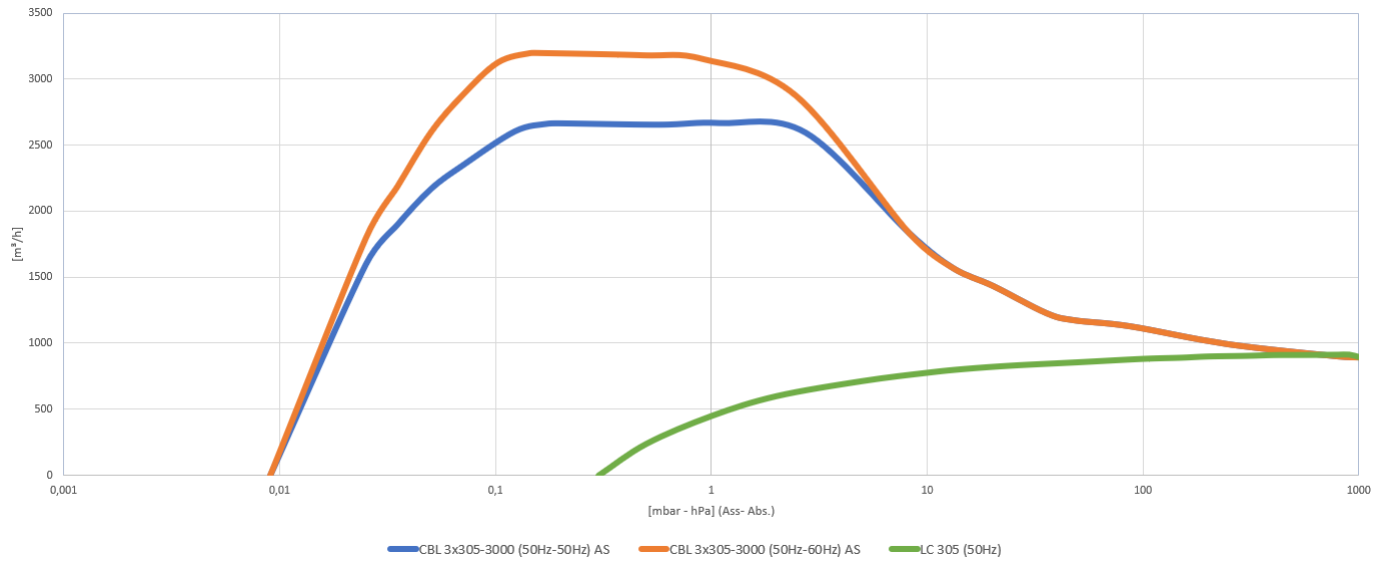


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		CBL 106/300		CBL 205/500		CBL 305/500		CBL 305/1000		CBL 2x305/1500		CBL 2x305/2000		CBL 3x305/3000	
		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
Lobe pump	Model	BCA 300		BCA 500		BCA 500		BCA 1000		BCA 1500		BCA 2000		BCA 3000	
	Motor power kW	1,1		2,2		2,2		4		4		5,5		7,5	
	Nominal capacity m ³ /h	279	334	504	605	504	605	1008	1210	1433	1720	2045	2454	2887	3465
Primary pump	Model	LC 106		LC 205		LC 305		LC 305		2 x LC 305		2 x LC 305		3 x LC 305	
	Motor power kW	2,2	2,7	5,5	6,6	7,5	9	7,5	9	2x7,5	2x9	2x7,5	2x9	3x7,5	3x9
	Nominal capacity m ³ /h	106	127	205	245	305	365	305	365	2x305	2x365	2x305	2x365	3x305	3x365
	Working pressure (Abs) mbar	0 ÷ 1013													
	Continuous Working pressure (Abs) mbar	0 ÷ 400													
Lobe pump + Primary pump	Catalog code	9311008		9311009		9311015		9311014		9311010		9311011		9311012	
	Installed power kW	3,3	3,8	7,7	8,8	9,7	11,2	11,5	13	19	22	20,5	23,5	30	34,5
	Capacity (@ 5 mbar)* m ³ /h	239 ÷ 282	246 ÷ 290	450 ÷ 528	461 ÷ 540	475 ÷ 562	480 ÷ 570	858 ÷ 1003	872 ÷ 1022	1306 ÷ 1540	1319 ÷ 1560	1760 ÷ 2075	1780 ÷ 2110	2575 ÷ 3100	2615 ÷ 3125
	Noise level (@ 1 mbar)** dB(A)	72	74	75	77	75	77	76	78	78	80	78	80	80	82
	Working pressure (Abs)*** mbar	0,006 ÷ 1013		0,009 ÷ 1013											
	Final pressure (Abs)** mbar	6 x 10 ⁻³		9 x 10 ⁻³											
	Intake / Outlet DN ⁿ G	80 / 1"1/4		100 / 2"						150 / 2"					
	Weight kg	206		350		360		470		756		846		1066	
	Required room temperature for installation place °C	12 ÷ 40													
	Fluid temperature °C	12 ÷ 40													
	Ambient temperature for storage and transport °C	-20 ÷ 50													
	Max humidity / altitude	80% RH / 1000m s.l.m. / a.s.l ****													

(*) Flow rate refers to inlet pressure and 20°C ambient temperature (tolerance ±10%).
 (**) Measured according to EN ISO 2151, K = 3 dB(A)
 (***) The pressure is measured at the inlet section of the Booster.
 (****) Please contact us if environmental conditions are different from those prescribed.