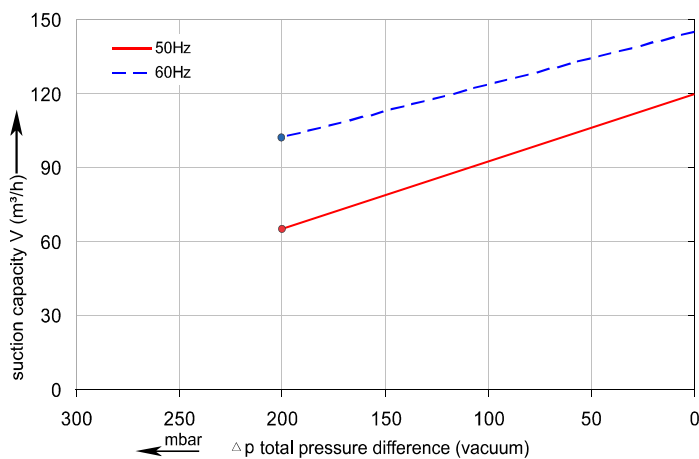


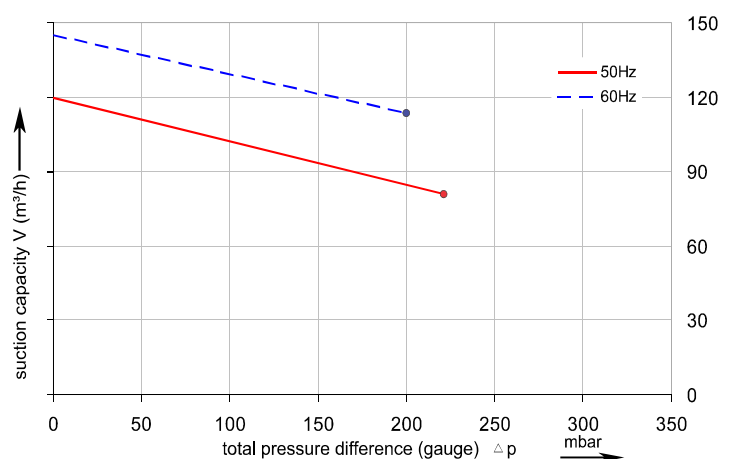
Double stage side channel vacuum pump / compressor EVSC-D30B3



Performance curve for Vacuum pump



Performance curve for Compressor



Technical Data

TYPE EVSC-D30B3

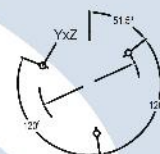
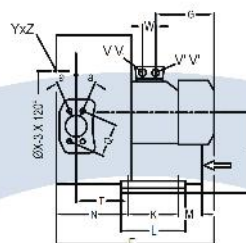
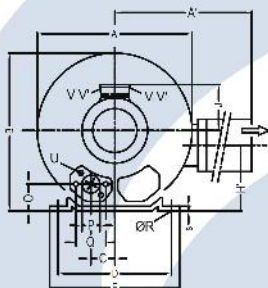
		50 Hz	60 Hz
Motor power	kW	0,75	0,86
Maximum airflow	m³/h	120	145
Ultimate pressure	mbar	+220	+200
Ultimate vacuum	mbar	-200	-200
Input voltage 3 phase Δ	V	200-260	230-290
Input voltage 3 phase Y	V	350-450	400-500
Input current Δ	A	3,12	3,1
Input current Y	A	1,8	1,9
Noise level	dB(A)	66	69
Weight	kg	24	24
Connection inlet	G(BSP)	1 1/4"	1 1/4"
Connection outlet	G(BSP)	1 1/4"	1 1/4"

Ordering Information TYPE EVSC-D30B3

EVSC-D30B3	3ph AC	142330
Other voltages/frequencies		Upon request

Accessories

Vacuum/pressure relief valve	See page 123
Vacuum inline dust filter	20800
Compressor suction filter	140024
Set of feet for horizontal positioning	140010

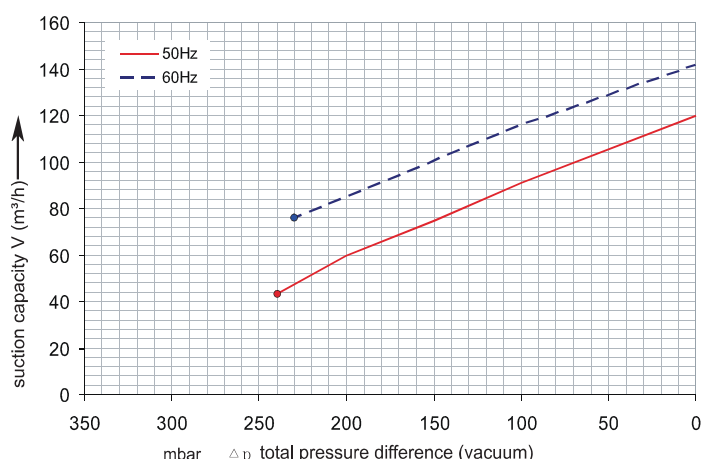


Type	Phases																											X-Holes				
		A	A'	B	C	D	E	F	G	H	H'	J	K	L	M	N	O	P	Q	ØR	S	T	U	V	V'	V ₁	V ₁ '	W	YxZ	a	ØX	
EVSC-D30R3	3~	293	324	286	47	205	230	354	160	141	114	120	83	108	82	138	41	G1 1/4	64	10	2.5	92	M6x17	M25x1.5	M16x1.5	-	-	29	M6x19	27°	51.5°/120°/120°	160

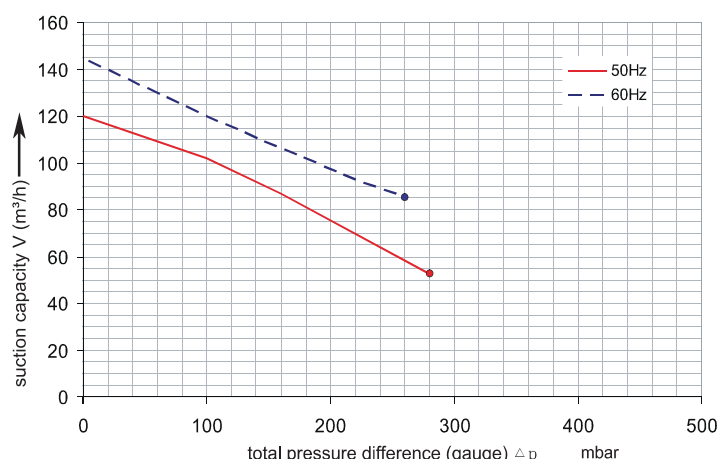
Double stage side channel vacuum pump / compressor EVSC-D31A1



Performance curve for Vacuum pump



Performance curve for Compressor



Technical Data

TYPE EVSC-D31A1

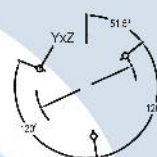
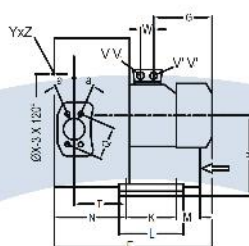
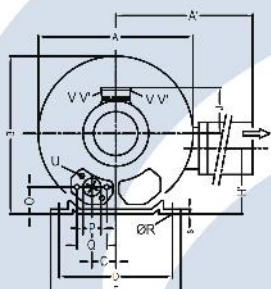
		50 Hz	60 Hz
Motor power	kW	1,1	1,3
Maximum airflow	m³/h	120	145
Ultimate pressure	mbar	+280	+260
Ultimate vacuum	mbar	-240	-230
Input voltage	V	230	230
Input current	A	7,3	8,3
Noise level	dB(A)	58	60
Weight	kg	17	17
Connection	inlet	G(BSP) 1¼"	1¼"
	outlet	G(BSP) 1¼"	1¼"

Ordering Information TYPE EVSC-D31A1

EVSC-D31A1	1ph AC	142131
Other voltages/frequencies		Upon request

Accessories

Vacuum/pressure relief valve	See page 123
Vacuum inline dust filter	20800
Compressor suction filter	140024
Set of feet for horizontal positioning	140010



Type	Phases	A	A'	B	C	D	E	F	G	H	H'	J	K	L	M	N	O	P	Q	ØR	S	T	U	V1	V2	V3	V4	α	ØK	YxZ	X-Holes
EVSC-D31A1	1~	293	324	286	47	205	230	354	160	141	114	120	83	108	82	138	41	G1¼(151/16"deep)	64	10	2.5	92	M6x17	-	-	M25x1.5	M16x1.5	27°	160	M6x15	51°/171°/29°





Graph showing suction capacity V (m³/h) versus total pressure difference Δp (mbar) for two fan speeds: 50 Hz (solid red line) and 60 Hz (dashed blue line). The x-axis is reversed, ranging from 500 mbar on the left to 0 mbar on the right. The y-axis ranges from 0 to 200 m³/h. Both lines show a linear increase in suction capacity as the total pressure difference decreases.

Total pressure difference Δp (mbar)	Suction capacity V (m³/h) at 50 Hz	Suction capacity V (m³/h) at 60 Hz
250	50	90
0	150	180

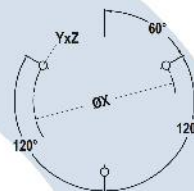
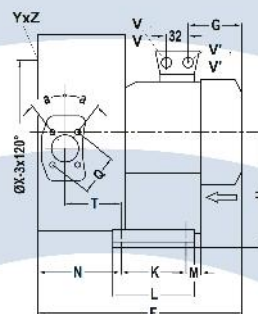
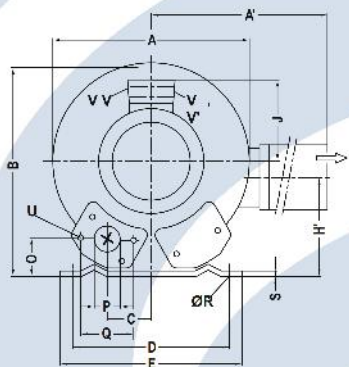
The graph illustrates the relationship between suction capacity V (in m^3/h) and total pressure difference Δp (in mbar) for two different frequencies: 50Hz and 60Hz. The suction capacity decreases linearly as the total pressure difference increases for both frequencies. The 60Hz line is consistently higher than the 50Hz line, indicating a higher suction capacity for the same pressure difference at 60Hz.

total pressure difference (gauge) Δp (mbar)	suction capacity V (m^3/h) at 50Hz	suction capacity V (m^3/h) at 60Hz
0	150	185
100	120	155
200	90	125
275	70	120

		50 Hz	60 Hz
Motor power	kW	1,5	1,75
Maximum airflow	m³/h	150	180
Ultimate pressure	mbar	+290	+280
Ultimate vacuum	mbar	-250	-250
Input voltage	V	230	230
Input current	A	9,1	10
Noise level	dB(A)	66	69
Weight	kg	26	26
Connection			
inlet	G(BSP)	1½"	1½"
outlet	G(BSP)	1½"	1½"

EVSC-D40A1	1ph AC	142140
Other voltages/frequencies		Upon request

Vacuum/pressure relief valve	See page 123
Vacuum inline dust filter	602025
Compressor suction filter	140025
Set of feet for horizontal positioning	140010

70



TYPE EVSC-D40B3

Ordering Information TYPE EVSC-D40B3

Accessories

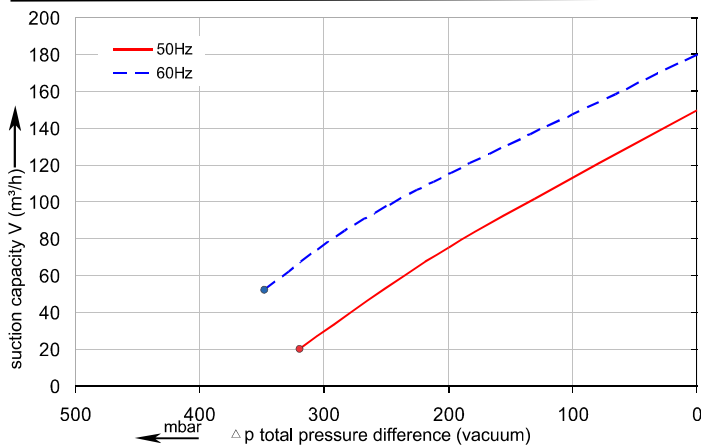
71



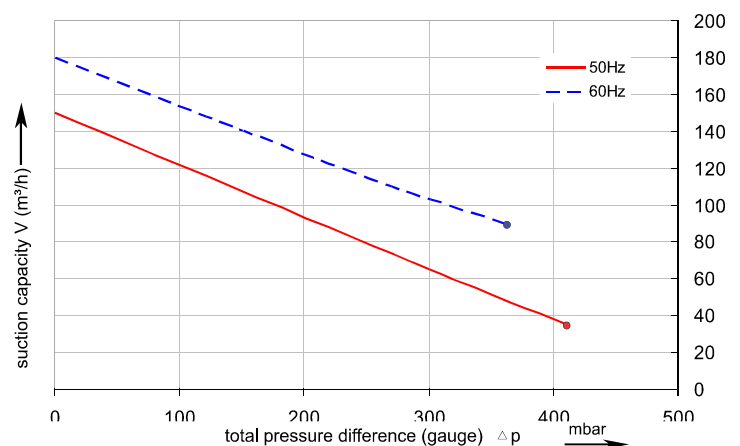
Double stage side channel vacuum pump / compressor **EVSC-D41B3**



Performance curve for Vacuum pump



Performance curve for Compressor



Technical Data

TYPE EVSC-D41B3

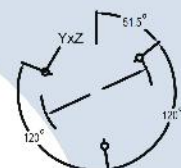
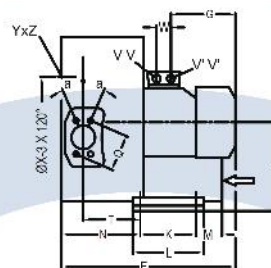
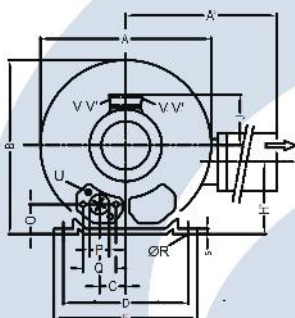
		50 Hz	60 Hz
Motor power	kW	2,2	2,55
Maximum airflow	m³/h	150	180
Ultimate pressure	mbar	+410	+360
Ultimate vacuum	mbar	-320	-350
Input voltage 3 phase Δ	V	220-260	230-290
Input voltage 3 phase Y	V	350-450	400-500
Input current Δ	A	8,1	8,0
Input current Y	A	4,6	4,6
Noise level	dB(A)	66	69
Weight	kg	27	27
Connection	inlet	G(BSP) 1 1/4"	1 1/4"
	outlet	G(BSP) 1 1/4"	1 1/4"

Ordering Information TYPE EVSC-D41B3

EVSC-D41B3	3ph AC	142341
Other voltages/frequencies		Upon request

Accessories

Vacuum/pressure relief valve	See page 123
Vacuum inline dust filter	20800
Compressor suction filter	140024
Set of feet for horizontal positioning	140010



Type	Phases																													X-Holes					
		A	A'	B	C	D	E	F	G	H	H'	J	K	L	M	N	O	P	Q	ØR	S	T	U	V	V'	V ₁	V ₁ '	W	YxZ	a		ØX			
EVSC-D41B3	3~	322	324	315	57	225	255	428	217	153	153	128	95	130	73	151	45	G1 1/4"	72	12	3	104	M6x19	M25x1.5	M16x1.5	-	-	29	M6x19	29°	51.5°/120°/120°	174			



TYPE EVSC-D50B3

Ordering Information TYPE EVSC-D50B3

Accessories

Type	Phases																												X-Holes	
	A	A'	B	C	D	E	F	G	H	H'	J	K	L	M	N	O	ØP	Q	ØR	S	T	U	V	V'	V	V _i	ØX	YxZ	W	
EVSC-D50B3	371	411	360	60	260	295	500	190	175	144	135	115	155	98	170	48	G2	83	14	4	115	M8x17	M32x1.5	M32x1.5	M32x1.5	M32x1.5	200	M8x20	51.8°/11.5°/281.5°	42



The graph shows the suction capacity V in m^3/h on the y-axis (0 to 400) versus the total pressure difference Δp in mbar on the x-axis (700 to 0). Two lines are plotted: a solid red line for 50Hz and a dashed blue line for 60Hz. Both lines show a linear increase in suction capacity as the pressure difference decreases. The 60Hz line is consistently higher than the 50Hz line.

Δp (mbar)	V (m³/h) at 50Hz	V (m³/h) at 60Hz
220	230	320
0	320	380

A line graph showing the relationship between suction capacity V (in m^3/h) and total pressure difference (gauge) Δp (in mbar) for two different frequencies: 50Hz and 60Hz. The x-axis represents the total pressure difference Δp in mbar, ranging from 0 to 700. The y-axis represents the suction capacity V in m^3/h , ranging from 0 to 400. The 50Hz curve is a solid red line, and the 60Hz curve is a dashed blue line. Both curves show a linear decrease in suction capacity as the pressure difference increases. The 60Hz curve is consistently higher than the 50Hz curve.

total pressure difference (gauge) Δp (mbar)	suction capacity V (m^3/h) at 50Hz	suction capacity V (m^3/h) at 60Hz
0	320	380
100	280	350
200	245	315

			50 Hz	60 Hz
Motor power	kW		2,2	2,55
Maximum airflow	m ³ /h		320	380
Ultimate pressure	mbar		+210	+150
Ultimate vacuum	mbar		-220	-170
Input voltage 3 phase Δ	V		200-240	220-275
Input voltage 3 phase Y	V		345-415	380-480
Input current Δ	A		9,7	10,3
Input current Y	A		5,6	6,0
Noise level	dB(A)		73	76
Weight	kg		43	43
Connection				
	inlet	G(BSP)	2"	2"
	outlet	G(BSP)	2"	2"

EVSC-D70A3	3ph AC	142370
Other voltages/frequencies		Upon request

Vacuum/pressure relief valve	See page 123
Vacuum inline dust filter	140036
Compressor suction filter	140026
Set of feet for horizontal positioning	140012

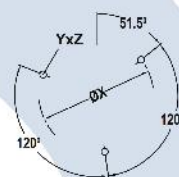
75



Figure 10 is a line graph showing the relationship between suction capacity V (in m^3/h) and total pressure difference Δp (in mbar) for two different frequencies: 50Hz and 60Hz. The x-axis represents Δp (mbar) and ranges from 500 to 0, with values decreasing from left to right. The y-axis represents suction capacity V (m^3/h) and ranges from 0 to 500. The 50Hz data is represented by a solid red line, and the 60Hz data is represented by a dashed blue line. Both lines show that suction capacity increases as the total pressure difference decreases. The 60Hz line is consistently higher than the 50Hz line.

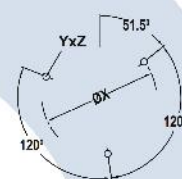
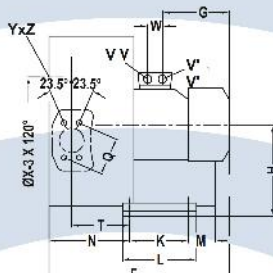
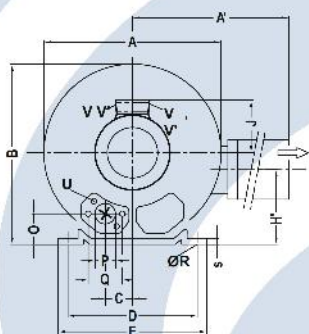
Δp (mbar)	Suction capacity V (m^3/h) at 50Hz	Suction capacity V (m^3/h) at 60Hz
240	210	310
0	320	390

Total pressure difference (gauge) Δp (mbar)	Suction capacity V (m^3/h) at 50Hz	Suction capacity V (m^3/h) at 60Hz
0	~350	~400
150	~280	~350
175	~250	-

			50 Hz	60 Hz
Motor power		kW	3,0	3,45
Maximum airflow		m³/h	320	385
Ultimate pressure		mbar	+210	+160
Ultimate vacuum		mbar	-230	-180
Input voltage 3 phase Δ		V	220-260	230-290
Input voltage 3 phase Y		V	350-450	400-500
Input current Δ		A	11,4	10,8
Input current Y		A	6,5	6,2
Noise level		dB(A)	73	75
Weight		kg	47	47
Connection	inlet	G(BSP)	2"	2"
	outlet	G(BSP)	2"	2"

EVSC-D71B3	3ph AC	142371
Other voltages/frequencies		Upon request

Vacuum/pressure relief valve	See page 123
Vacuum inline dust filter	140036
Compressor suction filter	140026
Set of feet for horizontal positioning	140012

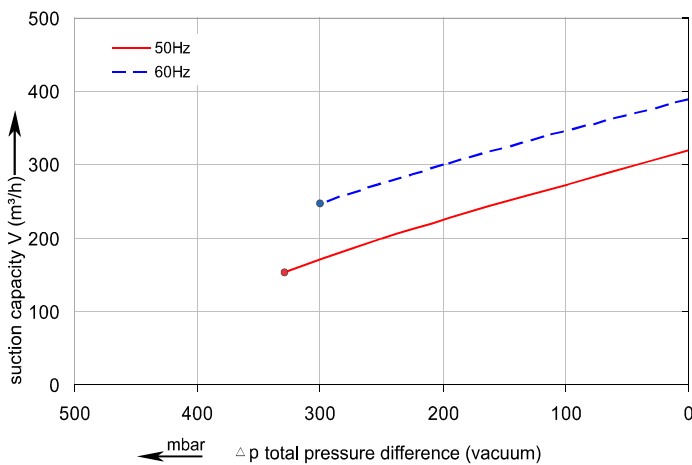


Type	Phases																															X-Borungen			
	A	A'	B	C	D	E	F	G	H	H'	J	K	L	M	N	O	ØP	Q	ØR	S	T	U	V	V	V _i	V ₁	ØX	YxZ	X-Holes	W					
EVSC-D71B3	3~	426	426	410	63	290	325	532	225	197	162	135	140	180	84	205	53	G2"	70	15	4.5	130	M8x17				M25x1.5	M16x1.5	240	M10x20	51.6/171.5/291.5	42			

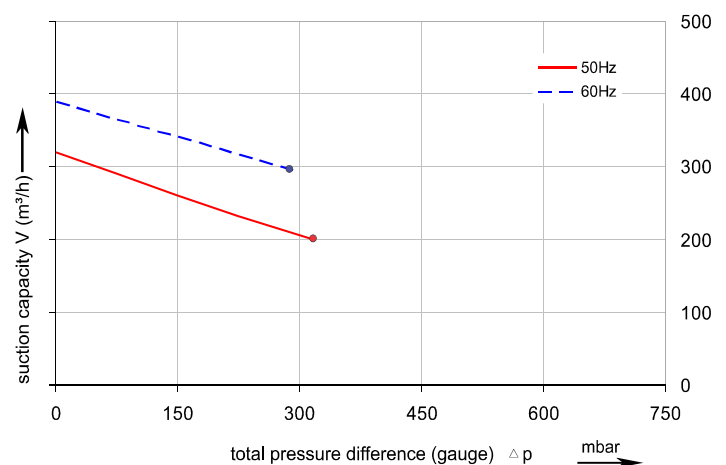
Double stage side channel vacuum pump / compressor EVSC-D72B3



Performance curve for Vacuum pump



Performance curve for Compressor



Technical Data

TYPE EVSC-D72B3

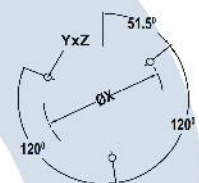
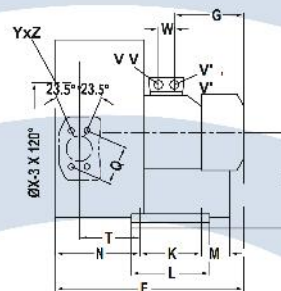
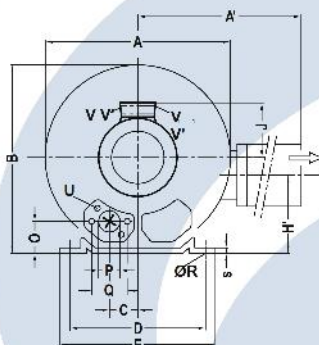
		50 Hz	60 Hz
Motor power	kW	4,0	4,6
Maximum airflow	m³/h	320	385
Ultimate pressure	mbar	+320	+270
Ultimate vacuum	mbar	-340	-300
Input voltage 3 phase Δ	V	350-450	400-500
Input voltage 3 phase Y	V	610-725	690-725
Input current Δ	A	8,4	8,2
Input current Y	A	4,8	4,7
Noise level	dB(A)	73	75
Weight	kg	53	53
Connection inlet	G(BSP)	2"	2"
Connection outlet	G(BSP)	2"	2"

Ordering Information TYPE EVSC-D72B3

EVSC-D72B3	3ph AC	142372
Other voltages/frequencies		Upon request

Accessories

Vacuum/pressure relief valve	See page 123
Vacuum inline dust filter	140036
Compressor suction filter	140026
Set of feet for horizontal positioning	140012



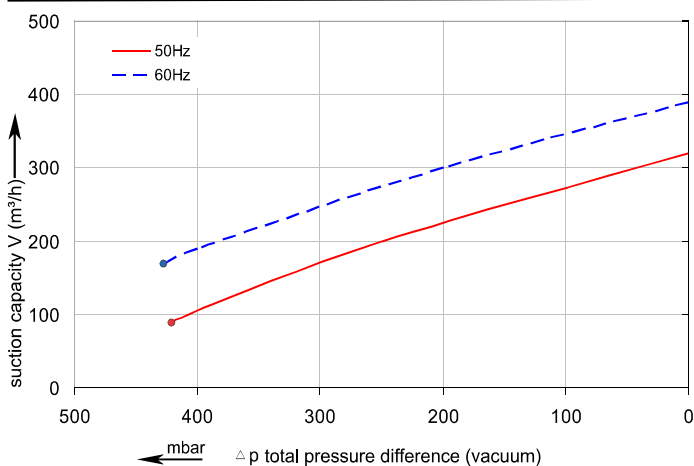
Type	Phases																													X-Holes		
		A	A'	B	C	D	E	F	G	H	H'	J	K	L	M	N	O	P	Q	ØR	S	T	U	V	V'	V _i	V _i	W	YxZ	a	ØX	
EVSC-D72B3	3~	426	426	410	63	290	325	566	249	197	162	148	140	180	84	205	53	G2	70	15	4.5	130	M8x17	M32x1.5	M32x1.5	M32x1.5	M32x1.5	42	M10X20	23.5"	51.5°/120°/120°	240

Double stage side channel vacuum pump / compressor

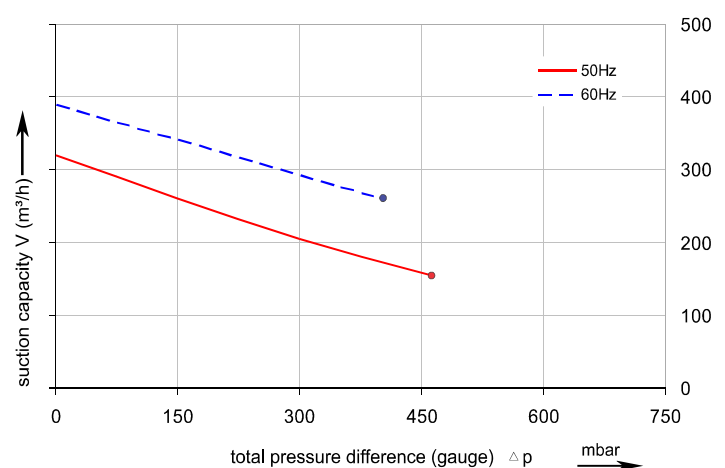
EVSC-D73B3



Performance curve for Vacuum pump



Performance curve for Compressor



Technical Data

TYPE EVSC-D73B3

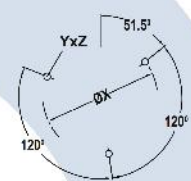
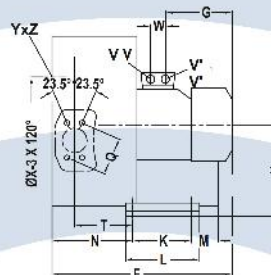
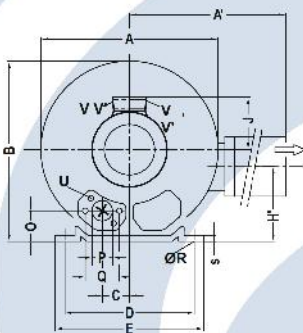
		50 Hz	60 Hz
Motor power	kW	5,5	6,3
Maximum airflow	m³/h	320	385
Ultimate pressure	mbar	+460	+390
Ultimate vacuum	mbar	-420	-440
Input voltage 3 phase Δ	V	350-450	400-500
Input voltage 3 phase Y	V	610-725	690-725
Input current Δ	A	11,1	11,0
Input current Y	A	6,4	6,4
Noise level	dB(A)	73	75
Weight	kg	70	70
Connection inlet	G(BSP)	2"	2"
Connection outlet	G(BSP)	2"	2"

Ordering Information TYPE EVSC-D73B3

EVSC-D73B3	3ph AC	142373
Other voltages/frequencies		Upon request

Accessories

Vacuum/pressure relief valve	See page 123
Vacuum inline dust filter	140036
Compressor suction filter	140026
Set of feet for horizontal positioning	140012



Type	Phases																												X-Holes			W
EVSC-D73B3	3~	426	426	410	63	290	325	607	226	197	162	1267	140	180	84	205	53	G2"	70	15	4.5	130	M8x17	V	V	V _h	V _i	ØX	YxZ	51.5°/171.5°/291.5°	42	