

A reference guide on how to size up a Vasco for a Pump

First we need to know the power source and pump power requirement

Incoming Power Supply

Single Phase – Select a Vasco V2** model

Three Phase – Select a Vasco V4** model

Please note on single phase applications that the maximum amperage for a single phase pump is always maxed out at 9A

Pump Power

We now need to know the FLA (Full load amperage) of the pump in question, this will normally be on the data plate, however can still be found in the Pedrollo / dp / other manufacturers data sheets.

Please ensure that the correct voltage / phasing is selected when checking.

Example :

We are looking to run a three phase CP132 from a 230v supply

The FLA of a CP132 when running in Delta (230v three phase), in this case it would be 2.2 Amps.

ABSORPTION

TYPE	VOLTAGE
Single-phase	230 V
CPm 100	1.9 A
CPm 130	3.2 A
CPm 132	3.9 A
CPm 150	5.7 A
CPm 158	6.0 A
CPm 170 - 170M	7.8 A
CPm 190	11.0 A
CPm 200	13.0 A

TYPE	VOLTAGE	
Three-phase	230 V - Δ	400 V - Δ
CP 100	1.6 A	0.95 A
CP 130	2.0 A	1.15 A
CP 132	2.2 A	1.3 A
CP 150	4.2 A	2.4 A
CP 158	4.3 A	2.5 A
CP 170 - 170M	5.2 A	3.0 A
CP 190	7.4 A	4.3 A
CP 200	9.3 A	5.4 A

Allowing an additional 10% over the FLA (to allow for overcurrent) the maximum potential draw will be 2.42 amps.

Cross referencing this with the sheet on the last page will show that we need to select a Vasco V209 as we are powering from single phase, and the maximum amperage draw is less than the 7 amps

Best practice is to always use the FLA of the pump if this is available. The KW rating of the Vasco should only be used as a guideline.

Model	Vin +/- 15% [VAC]	Max V out [VAC]	Max I in [A]	Max I out [A]	Typical motor P2 [kW]	Maximum efficiency [%]	Size
V209	1 x 230	1 x Vin	15	9	1,1	95	1
		3 x Vin		7	1,5		
V214	1 x 230	1 x Vin	20	9	1,1	95	1
		3 x Vin		11	3		
V218	1 x 230	3 x Vin	38	18	4	95	2
V225	1 x 230	3 x Vin	53	25	5,5	95	2
V306	3 x 230	3 x Vin	5,4	6	1,1	97	1
V309	3 x 230	3 x Vin	8	9	2,2	97	1
V314	3 x 230	3 x Vin	13,5	14	3	97	2
V318	3 x 230	3 x Vin	17,5	18	4	97	2
V325	3 x 230	3 x Vin	24	25	5,5	97	2
V330	3 x 230	3 x Vin	29	30	7,5	97	2
V338	3 x 230	3 x Vin	42	38	9,2	98	3
V348	3 x 230	3 x Vin	52	48	11	98	3
V365	3 x 230	3 x Vin	68	65	15	98	3
V375	3 x 230	3 x Vin	78	75	18,5	98	3
V385	3 x 230	3 x Vin	88	85	22	98	3
V3118	3 x 230	3 x Vin	120	118	30	98	3
V3158	3 x 230	3 x Vin	160	158	37	98	4
V3185	3 x 230	3 x Vin	190	185	45	98	4
V3215	3 x 230	3 x Vin	220	215	55	98	4
V3268	3 x 230	3 x Vin	270	268	75	98	4
V406	3 x 380 - 460	3 x Vin	5,4	6	2,2	97	1
V409	3 x 380 - 460	3 x Vin	8	9	4	97	1
V414	3 x 380 - 460	3 x Vin	13,5	14	5,5	97	2
V418	3 x 380 - 460	3 x Vin	17,5	18	7,5	97	2
V425	3 x 380 - 460	3 x Vin	24	25	11	97	2
V430	3 x 380 - 460	3 x Vin	29	30	15	97	2
V438	3 x 380 - 460	3 x Vin	42	38	18,5	98	3
V448	3 x 380 - 460	3 x Vin	52	48	22	98	3
V465	3 x 380 - 460	3 x Vin	68	65	30	98	3
V475	3 x 380 - 460	3 x Vin	78	75	37	98	3
V485	3 x 380 - 460	3 x Vin	88	85	45	98	3
V4118	3 x 380 - 460	3 x Vin	120	118	55	98	3
V4158	3 x 380 - 460	3 x Vin	160	158	75	98	4
V4185	3 x 380 - 460	3 x Vin	190	185	90	98	4
V4215	3 x 380 - 460	3 x Vin	220	215	110	98	4
V4268	3 x 380 - 460	3 x Vin	270	268	132	98	4