



POWERBOOST

Brochure 2018

Clean Water Booster Sets



The **POWERBOOST** Range

EPS introduces the POWERBOOST range of clean water booster sets for the supply of water for domestic, commercial, agricultural, industrial and municipal markets.



The POWERBOOST range consists of three styles to cover a range of applications:

The POWERBOOST FLOW

When regular mains supply is insufficient to supply multiple outlets simultaneously a booster set is required. This range is designed to replicate a good mains pressure and supply an abundance of water to suit demand.

- › Designed for large domestic and small commercial applications such as guest houses, sports clubs or multiple occupation dwellings
- › Providing increased flow at sufficient pressure to supply multiple outlets
- › Utilise Pedrollo pumps throughout



The POWERBOOST PRO

- › Designed for high rise buildings, large commercial and municipal applications
- › Industry standard vertical pumps with options up to 14.5 bar (145m height) and 11 kW
- › Use industrial grade inverters for variable speed control
- › Pump or panel mounted control options depending on the system, size and budget
- › Utilise DP pumps throughout



The POWERBOOST CUBE

The compact and efficient Powerboost CUBE is the result of constant design innovation. Inside it's neat and versatile housing is a fully featured two pump booster set with variable speed drive control.

- › Compact solution for small commercial installations
- › Bespoke internal components allowing a high specification set to be built inside an attractive "cube" housing
- › Wall or floor mounting
- › Utilise DP pumps



Please note that we have a policy of continuous product development and specifications may change from those shown.

Design

- › 20 years plus of experience and innovation incorporated into our design
- › High level of functionality & remote monitoring capability
- › Compact assembly
- › Easy to setup & operate
- › Ease of access for service
- › Low maintenance costs
- › High quality European manufactured pumps
- › High efficiency pumps
- › Generous manifold specifications
- › Low friction losses through controllers and manifolds

General







- › Fully assembled and factory tested prior to dispatch
- › Instruction manual is provided with each booster set
- › Test certificate provided with each booster set
- › Energy saving solution
- › User Friendly
- › CE marked
- › WRAS compliant components
- › Bespoke Solutions

Bespoke Solutions

We understand that not all water boosting requirements will be met by our Powerboost offering, however we can cater for larger flows, higher pressures, different pump configurations and different materials or components.

We can combine our comprehensive range of pumps, tanks and controls to suit your specific application.

Please contact the EPS sales team for support.

Range	Sectors	Capacity	Max Pressure	kW
 FLOW	Domestic Light Commercial Agricultural 	1 x duty pump - up to 12m ³ /h 2 x duty pump - up to 24m ³ /h 3 x duty pump - up to 36m ³ /h	9.7 bar	≤ 2.2 kW
 PRO	Commercial Industrial Municipal 	1 x duty pump - up to 35m ³ /h 2 x duty pump - up to 70m ³ /h 3 x duty pump - up to 105m ³ /h	14.5 bar	≤ 11 kW
 CUBE	Domestic Light Commercial 	2 x duty pump - up to 16m ³ /h	10 bar	≤ 1.1 kW

Each of our booster sets is available with either one or multiple pumps meeting the required duty. A standby pump is usually used where constant supply is essential. These configurations are referred to as follows:

- **Duty Standby (D/S)** - 1 pump supplying the full duty with a backup pump of the same capacity
- **Duty Assist (D/A)** - 2 pumps sharing the duty
- **Duty Assist Standby (D/A/S)** - 2 pumps sharing the duty with a backup pump of the same capacity as the duty pumps
- **Duty Assist Assist (D/A/A)** - 3 pumps sharing the duty

FLOW Range

Range Specification

Features

- › On demand operation
- › Auto rotation of duty pump
- › Auto changeover on duty pump trip
- › Advanced electronic controllers
- › Flow through controllers
- › BMS I/O connection
- › Digitally adjustable cut-in and cut-out pressure
- › Working pressure range 0.8 - 9 bar
- › Low friction losses through pump controllers
- › Anti-vibration mounts for base plate



Protection

- › Dry run protection
- › Overload protection
- › Feed tank low level alarm

Components

- › Controller per pump
- › Pressure vessel
- › Electronic pressure & flow sensors built into controllers
- › Baseplate & manifolds in 304 Stainless Steel (SS)
- › Connection box c/w alarm output connection - IP55 enclosure
- › GSM dial out alarm (Optional)

Pumps:	Pedrollo Range
Max Head:	9.7 Bar
No. of Pumps:	1 - 3
Capacity:	1 x duty pump - up to 12m ³ /h 2 x duty pump - up to 24m ³ /h 3 x duty pump - up to 36m ³ /h
kW Range:	≤ 2.2kW
Power Input:	230V/1PH/50Hz 400V/3PH/50Hz
Temperature Range:	
Liquid	up to +40°C
Ambient	up to +40°C
Pressure Rating:	PN10

Control Options

A series of small horizontal pumps operating in a cascade system enables high flow demands to be met whilst being efficient during periods of low use.

Flow-F - Easy Adjust - Multi Preset

- › Electronic management of pumps to meet varying demand
- › Advanced electronic controller per pump
- › Simple "single entry" setup of operating parameters
- › Digitally adjustable pressure setting (0.8 - 9 bar)
- › Thermal overload protection



Flow-V - Constant Pressure - Steadypres

- › Constant working pressure - selectable/adjustable
- › Variable speed drive (VSD) per pump
- › Drives are water cooled
- › Advanced power management
- › Operation log including; alarms & hours run





FLOW Range Controls

Flow F - Fixed Speed Control Philosophy

The Powerboost Flow-F is made up from two or three pumps in parallel, managed by an electronic control unit that acts as a pressure switch to keep the system within the desired pressure range and provides protection against over current and dry running.

When the pressure in the system falls below the cut in set point the control unit will start one pump to bring the system pressure back into the programmed working range. If one pump is not sufficient to keep the system pressure above the cut-in set point as the flow increases then the control unit will start the second pump (in three pump systems the third pump will start when the pressure drops again as described.)

As the flow decreases and the pressure builds each pump has an individual cut-out pressure so that they shut down in sequence.

The control unit alternates the order in which pumps start to balance the hours run on each pump. There is an input for a float switch to be installed in the feed tank and a volt free BMS connection for general alarm signals. In the event of an alarm condition the controller makes several attempts to automatically reset.



Flow V - Variable Speed Control Philosophy

The Powerboost Flow-V is made up from two or three pumps in parallel, managed by a variable speed controller on each pump to keep the system pressure constant and provide protection against over current and dry running.

When the pressure in the system falls below the cut in set point the system will start one pump at minimum speed and gradually increase its speed to maintain the pre-set system pressure as the flow increases. If one pump is not sufficient to maintain the system pressure at the set point as the flow increases then the control unit will start the second pump and in three pump systems the third pump in turn varying their speed as required to maintain the set pressure whilst minimising energy usage and excessive pressure in the system.

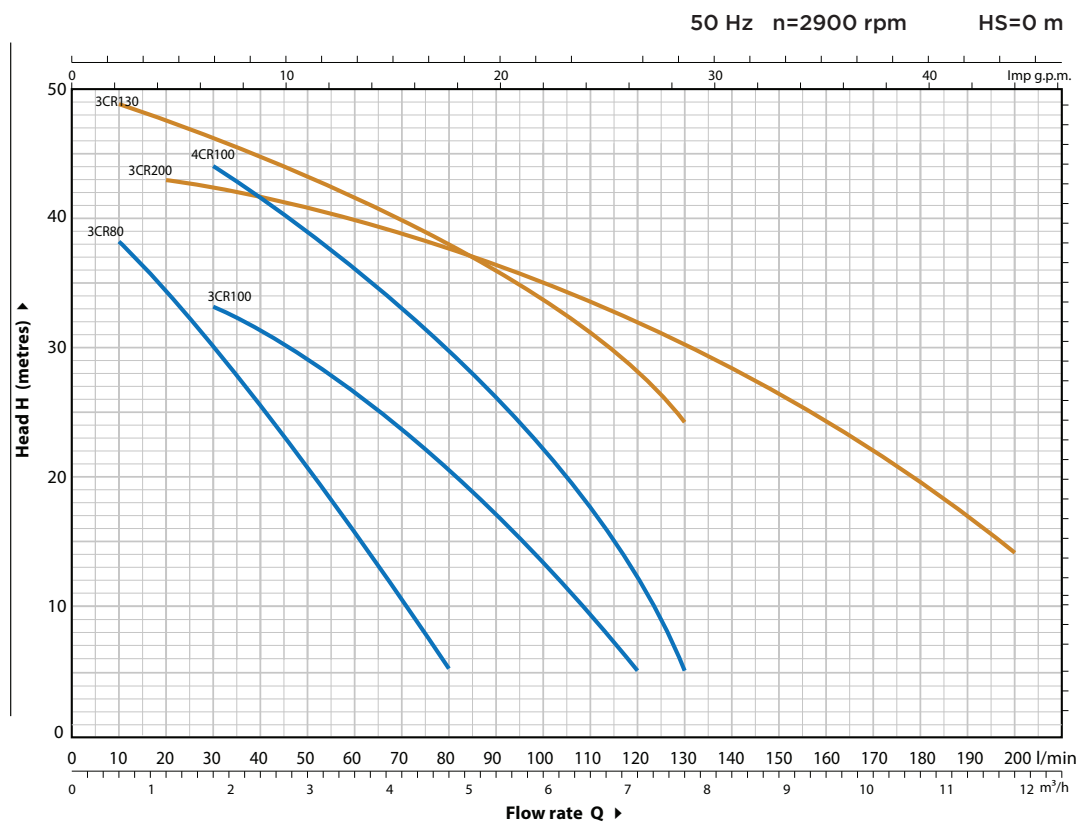
As the flow decreases the system will slow down each pump in turn to maintain the pre-set pressure. As each pump reaches minimum speed it will switch off until only one pump is running, this final pump will run on for ten seconds to pressurise the vessel and ensure that the pump set does not cycle excessively.

The control unit alternates the order in which pumps start to balance the hours run on each pump. There is an input for a float switch to be installed in the feed tank and a volt free BMS connection for general alarm signals. In the event of an alarm condition the controller attempts to automatically reset after 10 minutes.



FLOW-F Fixed Speed Range

Characteristic Curve & Performance Data



Flow F - CR Range

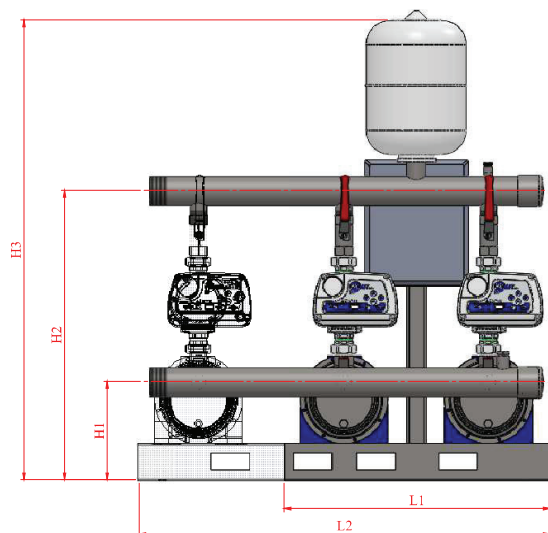
Code		Model	Power (P2) (Per Pump)		Q l/min	1x	0	05	10	15	20	25	30	40	50	60	70	80	90	100	110	120	130
2 Pump	3 Pump		kW	HP		2x	0	10	20	30	40	50	60	80	100	120	140	160	180	200	220	240	260
					Pump	3x	0	15	30	45	60	75	90	120	150	180	210	240	270	300	330	360	390
1029550	1029551	3CRm80	0.45	0.60	H Meters		40	38	37	36	34.5	33	31	27	22.5	17	11	5					
1029552	1029553	3CRm100	0.55	0.75			38	37	36	35	34.5	33.5	33	31	28	26	23	20	17	13.5	10	5	
1029554	1029555	4CRm100	0.75	1			50	50	49	48	47	46	45	42	39.5	37	34	30.5	26.5	22	17	11	5

Code		Model	Power (P2) (Per Pump)		Q l/min	1x	0	05	10	20	40	60	80	100	130	140	160	180	200
2 Pump	3 Pump		kW	HP		2x	0	10	20	40	80	120	160	200	260	280	320	360	400
					Pump	3x	0	15	30	60	120	180	240	300	390	420	480	540	600
1029556	1029557	3CRm130	1.1	1.5	H Meters		49	49	48.5	47.5	45	42.5	38.5	33.5	24				
1029558	1029559	3CRm200	1.1	1.5			44	43.5	43.5	43	42	40.5	38	35	29	27.5	23	18	13

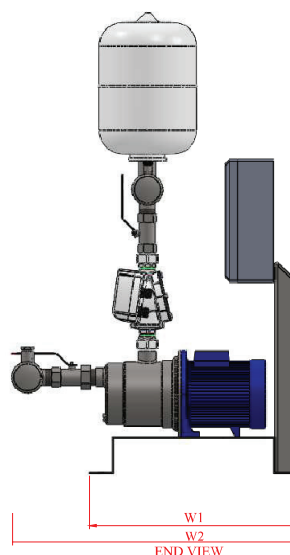
* 230V/1PH/50Hz Power supply for all Flow F booster sets as standard

* Curves show individual pump performance. See tables for 2 & 3 pump performance details

FLOW-F-CR Range

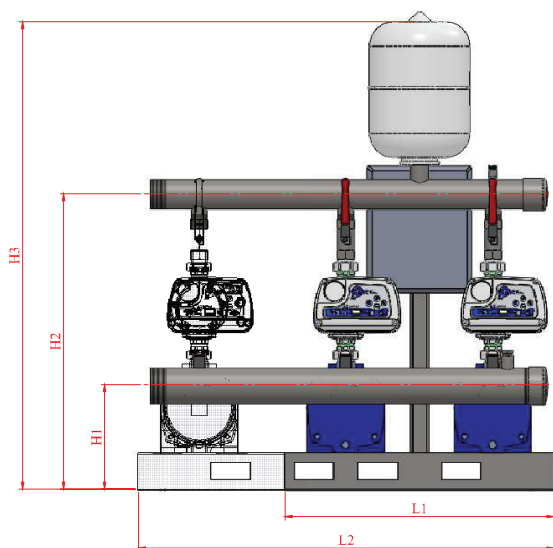


ELEVATION

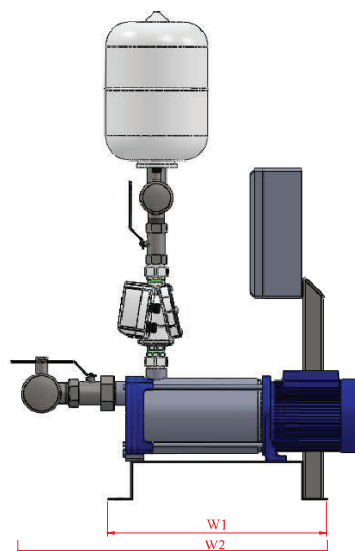


END VIEW

Model	No. Of Pumps	FLC(A)	H1(mm)	H2(mm)	H3(mm)	L1(mm)	L2(mm)	W1(mm)	W2(mm)	PIPE CONNECTIONS	
										Inlet	Outlet
3CRm80 230V	2	6.6	200	600	1100	550	850	440	610	2"BSPP	
	3	9.9	200	600	1100			440	610	2"BSPP	
3CRm100 230V	2	8.2	200	600	1100	550	850	440	610	2"BSPP	
	3	12.3	200	600	1100			440	610	2"BSPP	
4CRm100 230V	2	12	200	600	1100	550	850	440	610	2"BSPP	
	3	18	200	600	1100			440	610	2"BSPP	



ELEVATION



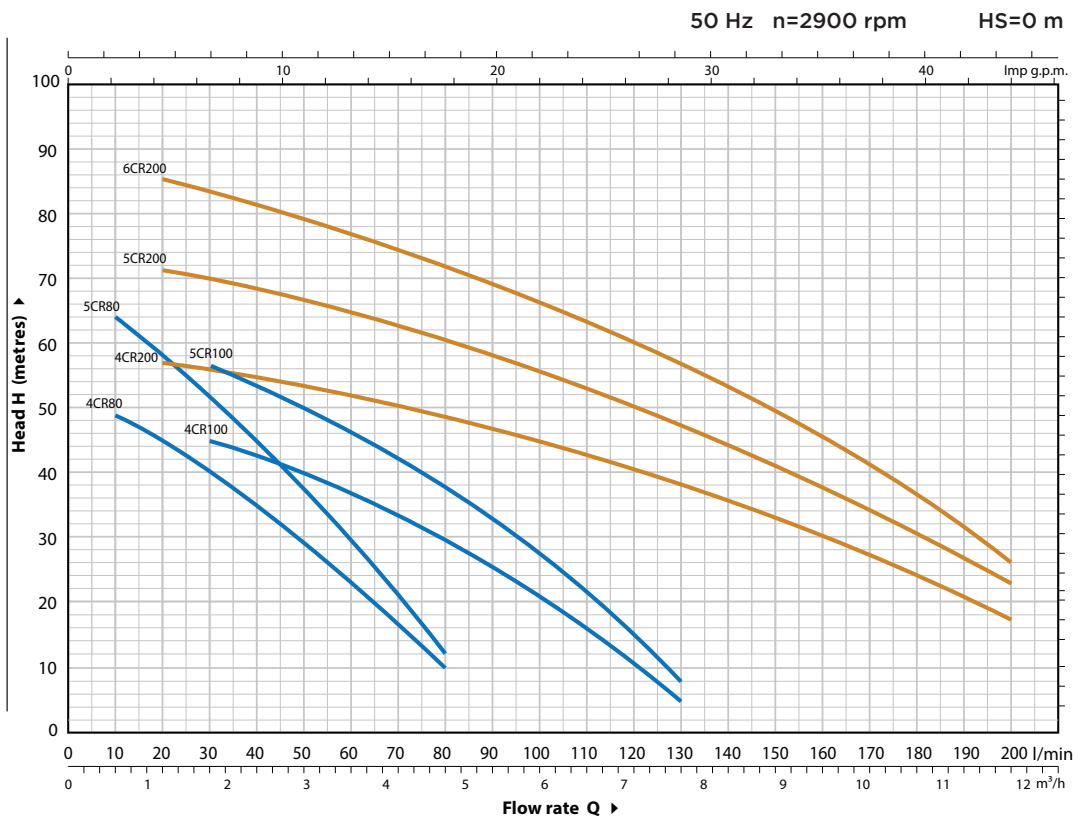
END VIEW

Model	No. Of Pumps	FLC(A)	H1(mm)	H2(mm)	H3(mm)	L1(mm)	L2(mm)	W1(mm)	W2(mm)	PIPE CONNECTIONS	
										Inlet	Outlet
3CRm130 230V	2	17	220	620	1120	550	820	440	694	2 1/2"BSPP	2"BSPP
	3	22.5	220	620	1120			440	694	2 1/2"BSPP	2"BSPP
3CRm200 230V	2	17	220	620	1120	550	820	440	694	2 1/2"BSPP	2"BSPP
	3	22.5	220	620	1120			440	694	2 1/2"BSPP	2"BSPP

* FLC - Full Load Current

FLOW-V Variable Speed Range

Characteristic Curve & Performance Data



Flow V - CR Range

Code		Model	Power (P2) (Per Pump)		Q l/ min	1x	0	05	10	15	20	25	30	40	50	60	70	80	90	100	110	120	130
						2x	0	10	20	30	40	50	60	80	100	120	140	160	180	200	220	240	260
2 Pump	3 Pump		kW	HP	Pump	3x	0	15	30	45	60	75	90	120	150	180	210	240	270	300	330	360	390
1029560	1029561	4CR80	0.45	0.60	H Meters	52	50	49	47	44.5	42	40	34	28.5	22.5	16	10						
1029562	1029563	5CR80	0.55	0.75		67	66	64	62	59	56	53	45.5	37.5	29.5	20.5	12						
1029564	1029565	4CR100	0.75	1		50	50	49	48	47	46	45	42	39.5	37	34	30.5	26.5	22	17	11	5	
1035355	1035353	5CR100	1.1	1.5		63	62	61.5	60.5	59.5	58	57	53.5	50.5	46.5	42.5	38	33	28	22	15	8	

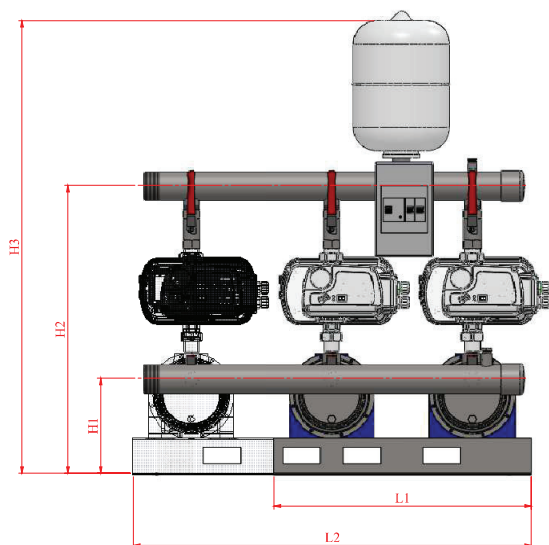
Code		Model	Power (P2) (Per Pump)		Q l/min	1x	0	05	10	20	40	60	80	100	130	140	160	180	200
						2x	0	10	20	40	80	120	160	200	260	280	320	360	400
2 Pump	3 Pump		kW	HP	Pump	3x	0	15	30	60	120	180	240	300	390	420	480	540	600
1029566	1029567	4CR200	1.5	2	H Meters	58	57.5	57.5	57	55	52.5	49.5	45	38	35.5	30	24	17	
1029568	1029569	5CR200	1.8	2.5		73	72	71.5	71	69	65.5	62	56.5	48	44.5	38	30	22	
1029570	1029571	6CR200	2.2	3		87	86	85.5	85	82	78	73	67	57	53	45	36	26	

* 230V/1PH/50Hz Power supply for all Flow F booster sets as standard

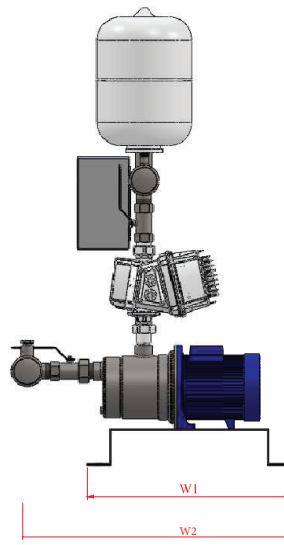
* 400V/3PH/50Hz Power supply option available on request.

* Curves show individual pump performance. See tables for 2 & 3 pump performance details

FLOW-V Variable Speed Range

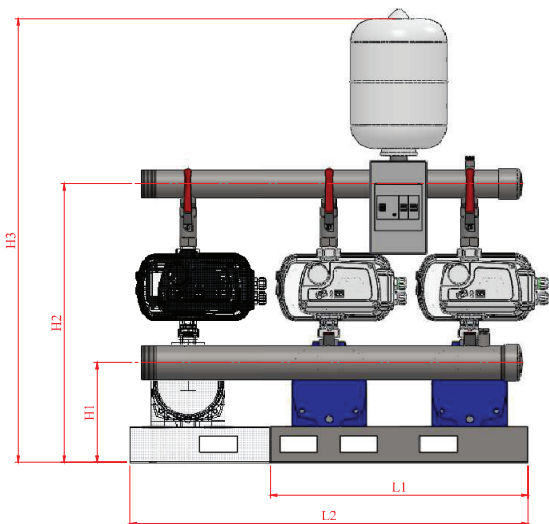


ELEVATION

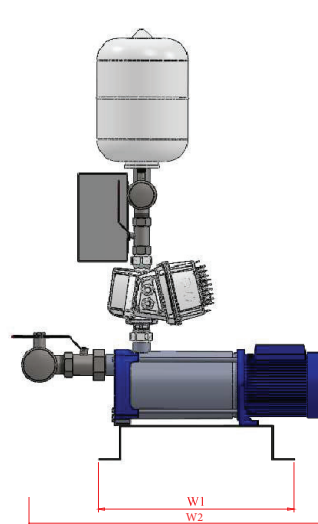


END VIEW

Model	No. Of Pumps	FLC(A)		H1(mm)	H2(mm)	H3(mm)	L1(mm)	L2(mm)	W1(mm)	W2(mm)	PIPE CONNECTIONS	
		230V	400V								Inlet	Outlet
4CR80	2	6.8	4	200	610	1100	550	850	440	590	2"BSPP	
	3	10.2	6	200	610	1100			440	590	2"BSPP	
5CR80	2	8.6	5	200	610	1100	550	850	440	590	2"BSPP	
	3	12.9	7.5	200	610	1100			440	590	2"BSPP	
4CR100	2	9	5.2	200	610	1100	550	850	440	590	2"BSPP	
	3	13.5	7.8	200	610	1100			440	590	2"BSPP	
5CR100	2	8.4	4.8	200	610	1100	550	850	440	590	2"BSPP	
	3	12.6	7.2	200	610	1100			440	590	2"BSPP	



ELEVATION



END VIEW

Model	No. Of Pumps	FLC(A)		H1(mm)	H2(mm)	H3(mm)	L1(mm)	L2(mm)	W1(mm)	W2(mm)	PIPE CONNECTIONS	
		230V	400V								Inlet	Outlet
4CR200	2	16.2	8.4	220	630	1130	550	850	440	720	2 1/2"BSPP	2"BSPP
	3	24.3	12.6	220	630	1130			440	720	2 1/2"BSPP	2"BSPP
5CR200	2	17.4	10.8	220	630	1130	550	850	440	720	2 1/2"BSPP	2"BSPP
	3	26.1	16.2	220	630	1130			440	720	2 1/2"BSPP	2"BSPP
6CR200	2	20.8	11.8	220	630	1130	550	850	440	720	2 1/2"BSPP	2"BSPP
	3	31.2	17.7	220	630	1130			440	720	2 1/2"BSPP	2"BSPP

* FLC - Full Load Current

PRO Variable Speed Range

Range Specification

Features

- › Constant working pressure
- › Sleep mode when no water demand
- › Auto rotation of duty pump
- › Auto changeover on duty pump trip
- › Integrated soft start / stop
- › BMS I/O connection
- › Suction and discharge velocities <2.2 m/sec

Protection

- › Individual pump protection
- › Dry run protection
- › Overload protection
- › Thermal overload protection
- › High pressure cut out
- › Feed tank low level alarm

Components

- › Variable speed drive (VSD) per pump
- › Pressure vessel
- › Danfoss pressure transducers
- › Baseplate, manifolds, valves, fittings & panel stand in 304SS
- › Panel c/w MCB's, mains Isolator and alarm output connection IP55 enclosure
- › GSM dial out alarm (Optional)
- › Anti-vibration mounts for base plate (Optional)



Pumps:	DP Vertical Range
Max Head:	14.5 Bar
No. of Pumps:	2 - 3
Capacity:	1 x duty pump - up to 35m³/h 2 x duty pump - up to 70m³/h 3 x duty pump - up to 105m³/h
kW Range:	≤ 11 kW
Power Input:	230V/1PH/50Hz 400V/3PH/50Hz
Temperature Range:	
Liquid	+4°C to 40°C
Ambient	+0°C to 30°C
Pressure Rating:	PN16

Control Options

Pro-E

This is the most economic version offering fully featured variable speed drive (VSD) controllers mounted on each pump.

- › Full featured system in the most economic format
- › Motor mounted VSD
- › Auto transfer of master in the event of drive fault/trip
- › 7" touch screen TM Monitor upgrade available on request



Pro-S

This is the highest specification of control panel and features a Human-Machine Interface (HMI) colour touch-screen interface which displays comprehensive graphical data.

- › VSD's fitted in control panel
- › Human-Machine Interface (HMI) touch screen showing; system value, pump status, operating hours and comprehensive alarm log
- › Remote access capability
- › Control panel can be wall mounted
- › Secure Digital (SD) card for data logging (Optional)
- › Flow meter for instantaneous and totalised flow logging (Optional)





PRO Range Controls

PRO Control Philosophy

The Powerboost PRO range is made up from two or three pumps in parallel, managed by a variable speed controller for each pump to keep the system pressure constant and provide protection against over current and dry running.

When the pressure in the system falls below the cut in set point the system will start one pump at minimum speed and gradually increase its speed to maintain the pre-set system pressure as the flow increases. If one pump is not sufficient to maintain the system pressure at the set point as the flow increases then the control unit will start the second pump and in three pump systems the third pump in turn varying their speed as required to maintain the set pressure whilst minimising energy usage and excessive pressure in the system.

As the flow decreases the system will slow down each pump in turn to maintain the pre-set pressure. As each pump reaches minimum speed it will switch off until only one pump is running, this final pump will run on for ten seconds to pressurise the vessel and ensure that the pump set does not cycle excessively.

The control unit alternates the order in which pumps start to balance the hours run on each pump.

There is an input for a float switch to be installed in the feed tank and a volt free BMS connection for general alarm signals.



Remote Monitoring

There are a number of options available to add connectivity to the system.

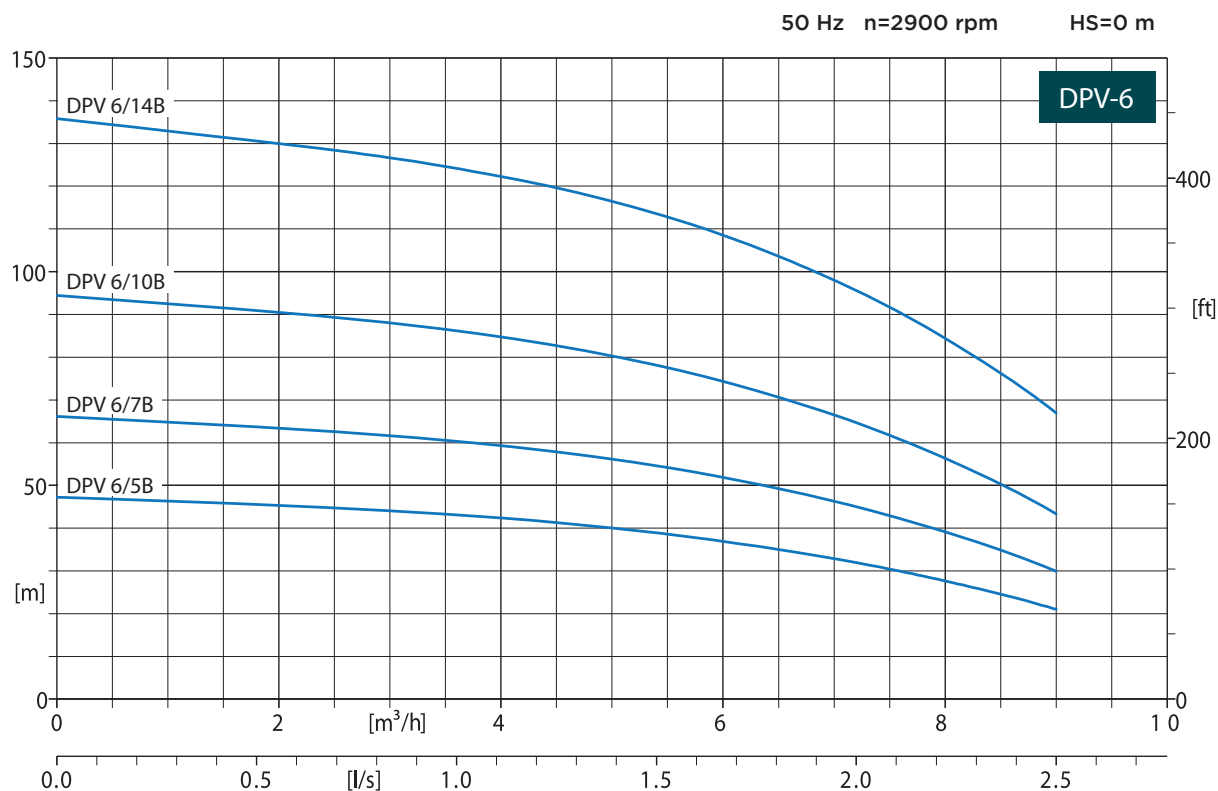
These include:

- › A GSM dial out unit for alarm notification which is available throughout the Powerboost offering.
- › A GPRS modem for remote access and SCADA capability. With this option it is possible to monitor the booster system performance and alarms. For system operators and service personnel this is a very efficient and useful capability. This option is only available with our Pro-S offering.



PRO Variable Speed Range 230V/1PH

Characteristic Curve & Performance Data



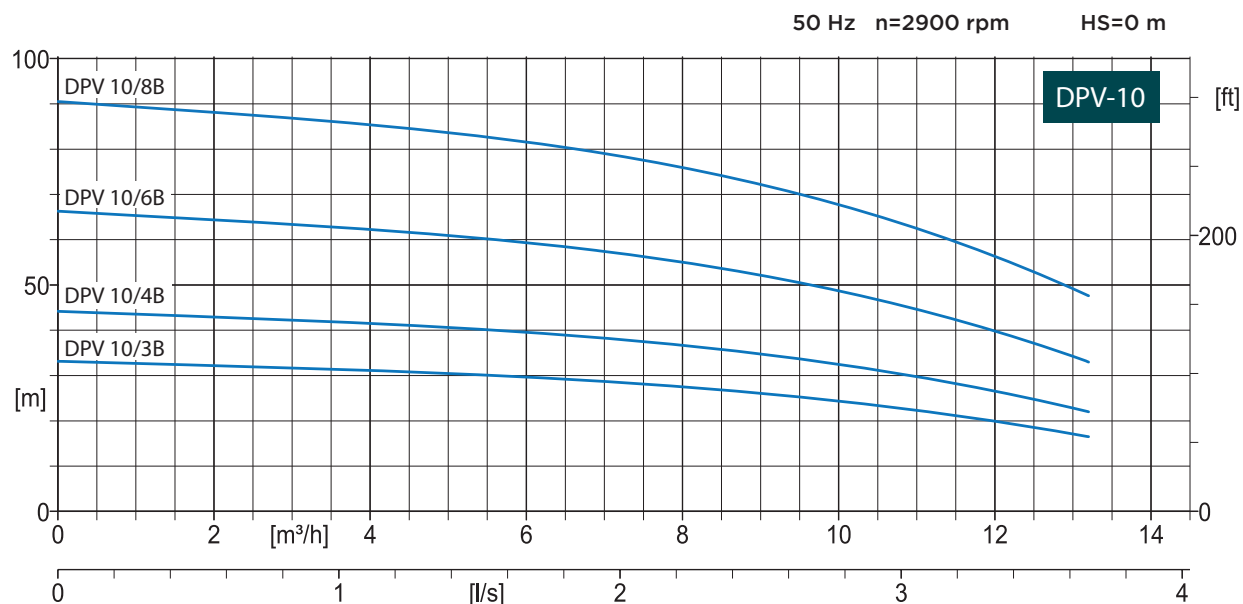
Code			FLC (A)	Model	Power (P2) (Per Pump)		Q m³/h Pump	1x	0	1	2	3	4	5	6	7	8	9
								2x	0	2	4	6	8	10	12	14	16	18
Pro E	Pro S	kW			HP	3x		0	4	6	9	12	15	18	21	24	27	
2 Pump	1021268	1029286			8	DPV6/5		1.1	1.5	H Meters	48	47	46	44	42	40	38	33
3 Pump	1029268	1029292	12															
2 Pump	1029263	1029287	11	DPV6/7	1.5	2	68	67	63		62	60	57	52	47	40	30	
3 Pump	1029269	1029293	16.5															
2 Pump	1029264	1029288	16	DPV6/10	2.2	3	95	92	90		88	84	80	75	66	56	44	
3 Pump	1029270	1029294	24															
2 Pump	1030934	1030938	20.4	DPV6/14	3	4	136	133	130		127	122	117	108	98	84	67	
3 Pump	1030943	1030944	30.6															

* 230V/1PH/50Hz Power supply
* Power (P2) figures are per pump

* Curves show individual pump performance. See tables for 2 & 3 pump performance details
* FLC - Full Load Current

PRO Variable Speed Range 230V/1PH

Characteristic Curve & Performance Data



Code			FLC (A)	Model	Power (P2) (Per Pump)		Q m³/h Pump	1x	0	1	2	3	4	5	6	7	8	9	10	11	12	13
								2x	0	2	4	6	8	10	12	14	16	18	20	22	24	26
	Pro E	Pro S			kW	HP		3x	0	3	6	9	12	15	18	21	24	27	30	33	36	39
2 Pump	1029265	1029289	8	DPV10/3	1.1	1.5	H Meters	33	32.5	32	31.5	31	30	29	28	27	26	24	23	20	17	
3 Pump	1029271	1029295	12																			
2 Pump	1029266	1029290	11	DPV10/4	1.5	2		44	43.5	43	42	41	40.5	40	38	36	35	32	30	27	23	
3 Pump	1029272	1029296	16																			
2 Pump	1029267	1029291	20.4	DPV10/6	2.2	3		67	66	64	62	61	60.5	59	57	54	52	49	44	40	34	
3 Pump	1029273	1029297	30.6																			
2 Pump	1030945	1030946	20.4	DPV10/8	3	4		90	89	88	86	85	83.5	82	78	75	73	68	63	56	49.5	
3 Pump	1030950	1030951	30.6																			

* 230V/1PH/50Hz Power supply

* Power (P2) figures are per pump

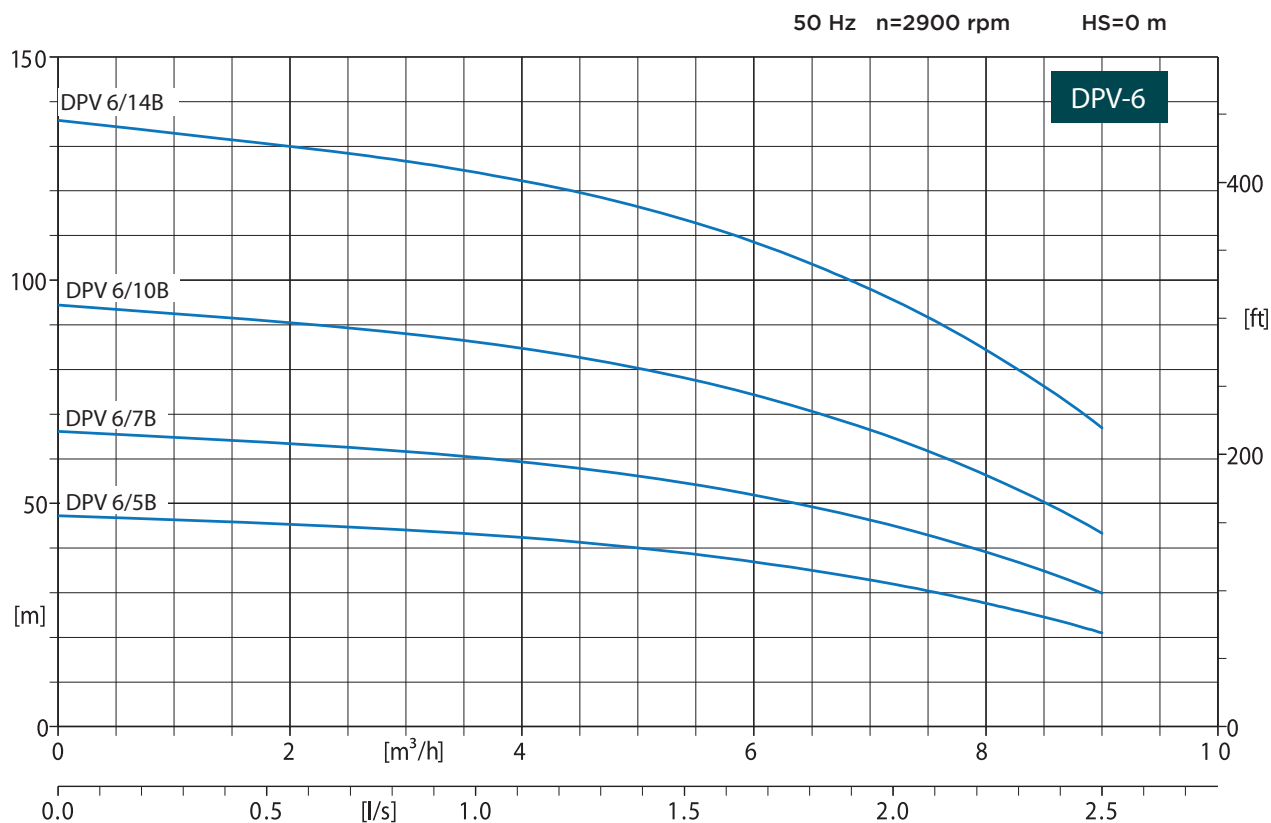
* Curves show individual pump performance. See tables for 2 & 3 pump performance details

* FLC - Full Load Current



PRO Variable Speed Range 400V/3PH

Characteristic Curve & Performance Data



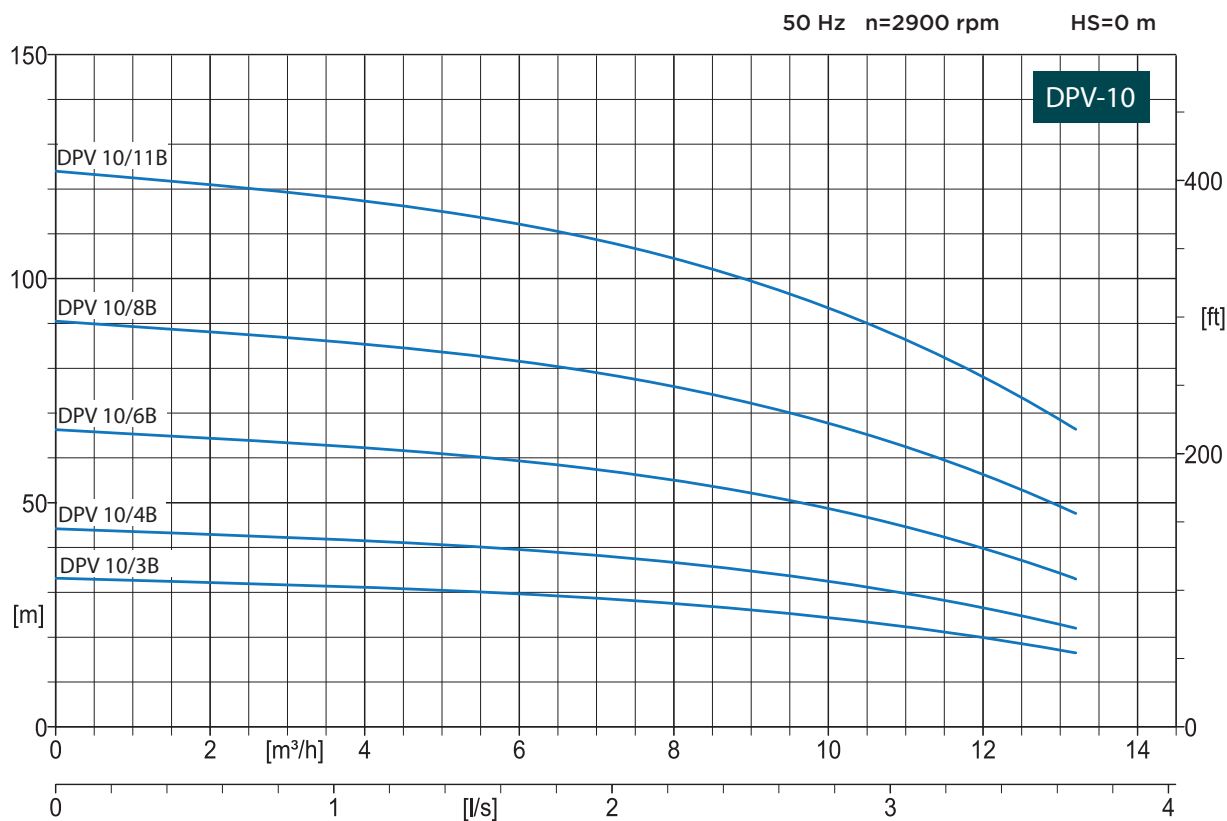
Code			FLC (A)	Model	Power (P2) (Per Pump)		Q m³/h Pump	1x	0	1	2	3	4	5	6	7	8	9
	Pro E	Pro S			kW	HP		2x	0	2	4	6	8	10	12	14	16	18
								3x	0	4	6	9	12	15	18	21	24	27
2 Pump	1029298	1029358	4.6	DPV6/5	1.1	1.5	H Meters											
3 Pump	1029315	1029375	6.9								48	47	46	44	42	40	38	33
2 Pump	1029299	1029359	6.4	DPV6/7	1.5	2												
3 Pump	1029316	1029376	9.6								68	67	63	62	60	57	52	47
2 Pump	1029300	1029360	9.2	DPV6/10	2.2	3												
3 Pump	1029317	1021563	13.8								95	92	90	88	84	80	75	66
2 Pump	1029301	1029361	11.6	DPV6/14	3	4												
3 Pump	1029318	1029378	17.4								136	133	130	127	122	117	108	98

* 400V/3PH/50Hz Power supply
 * Power (P2) figures are per pump

* Curves show individual pump performance. See tables for 2 & 3 pump performance details
 * FLC - Full Load Current

PRO Variable Speed Range 400V/3PH

Characteristic Curve & Performance Data



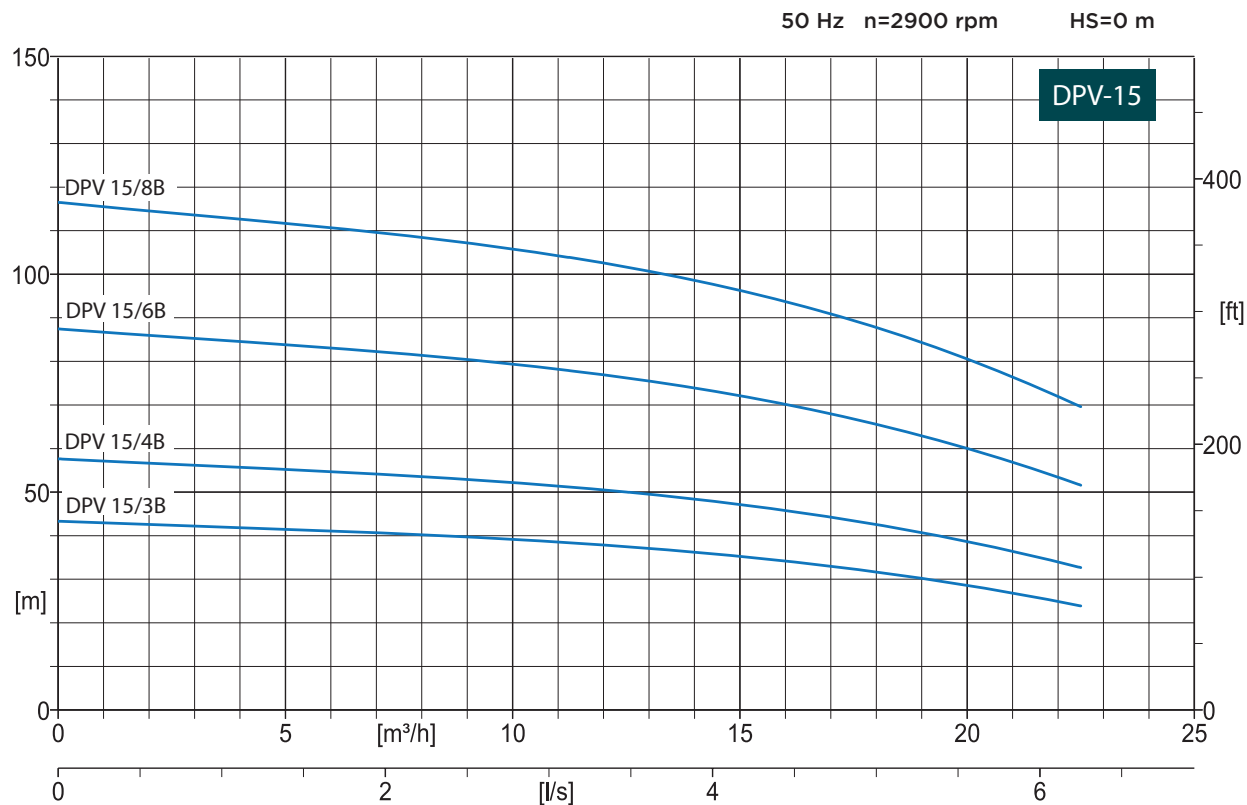
Code			FLC (A)	Model	Power (P2) (Per Pump)		Q m³h Pump	1x	0	1	2	3	4	5	6	7	8	9	10	11	12	13
	Pro E	Pro S			kW	HP		2x	0	2	4	6	8	10	12	14	16	18	20	22	24	26
								3x	0	3	6	9	12	15	18	21	24	27	30	33	36	39
2 Pump	1029302	1029362	4.6	DPV10/3	1.1	1.5	H Meters	33	32.5	32	31.5	31	30	29	28	27	26	24	23	20	17	
3 Pump	1029319	1029379	6.9																			
2 Pump	1029303	1029363	6.4	DPV10/4	1.5	2		44	43.5	43	42	41	40.5	40	38	36	35	32	30	27	23	
3 Pump	1029320	1029380	9.6																			
2 Pump	1029304	1029364	9.2	DPV10/6	2.2	3		67	66	64	62	61	60.5	59	57	54	52	49	44	40	34	
3 Pump	1029321	1029381	13.8																			
2 Pump	1029305	1029365	11.6	DPV10/8	3	4		90	89	88	86	85	83.5	82	78	75	73	68	63	56	49.5	
3 Pump	1029322	1029382	17.4																			
2 Pump	1029306	1029366	14.8	DPV10/11	4	5.5		124	123	121	119	117	115	113	108	104	100	93	86	78	69	
3 Pump	1029323	1029383	22.2																			

* 400V/3PH/50Hz Power supply
* Power (P2) figures are per pump

* Curves show individual pump performance. See tables for 2 & 3 pump performance details
* FLC - Full Load Current

PRO Variable Speed Range 400V/3PH

Characteristic Curve & Performance Data



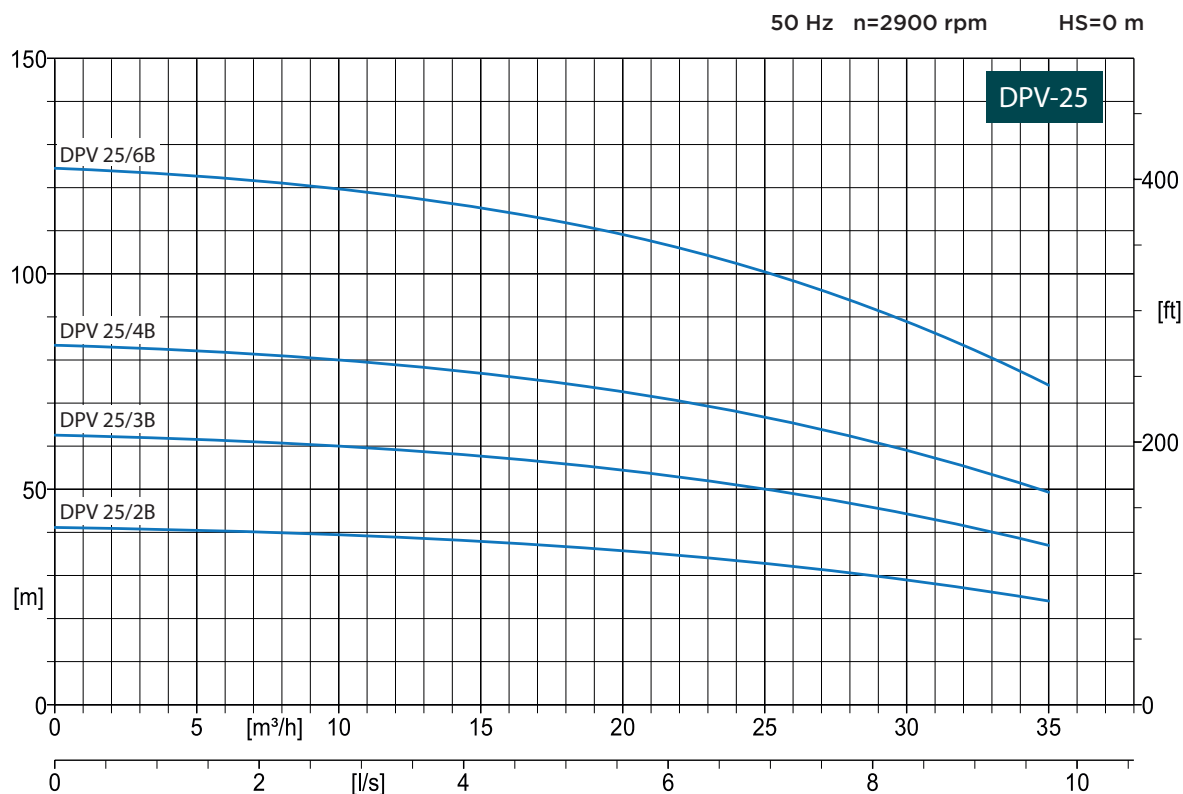
Code			FLC (A)	Model	Power (P2) (Per Pump)		Q m³/h Pump	1x	0	2.5	5	7.5	10	12.5	15	17.5	20	22.5
	Pro E	Pro S						2x	0	5	10	15	20	25	30	35	40	25
								kW	HP		3x	0	7.5	15	22.5	30	37.5	45
2 Pump	1029307	1029367	11.6	DPV15/3	3	4	H Meters		44	42	41	40	39	38	35	33	28	24
3 Pump	1029324	1029384	17.4															
2 Pump	1029308	1029368	6.4	DPV15/4	4	5.5			57	56	55	54	52	50	47	44	39	33
3 Pump	1029325	1029385	9.6															
2 Pump	1029309	1029369	9.2	DPV15/6	5.5	7.5			88	85	84	85	79.5	76	72	66	60	52
3 Pump	1029326	1029386	13.8															
2 Pump	1029310	1029370	11.6	DPV15/8	7.5	10			117	114	112	109	106	102	96	89	80	69.5
3 Pump	1029327	1029387	17.4															

* 400V/3PH/50Hz Power supply
* Power (P2) figures are per pump

* Curves show individual pump performance. See tables for 2 & 3 pump performance details
* FLC - Full Load Current

PRO Variable Speed Range 400V/3PH

Characteristic Curve & Performance Data



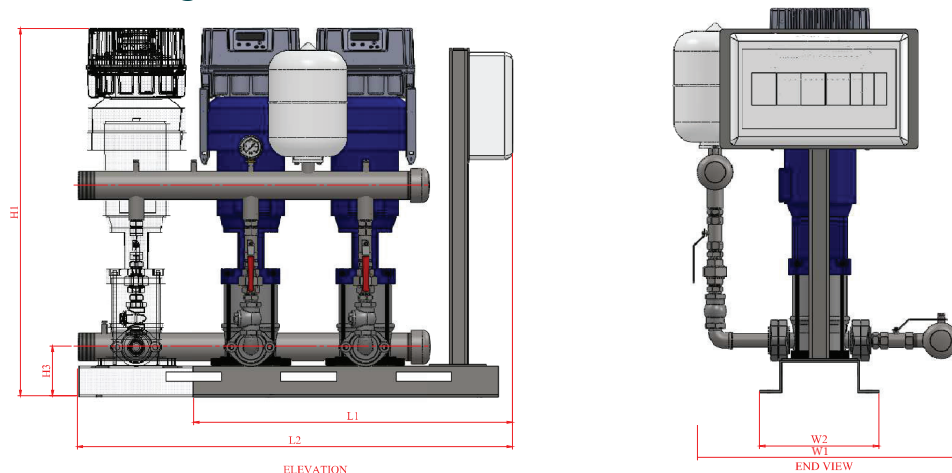
Code			FLC (A)	Model	Power (P2) (Per Pump)		Q m³h Pump	1x	0	2.5	5	7.5	10	12.5	15	17.5	20	22.5	25	27.5	30	32.5	35
	Pro E	Pro S			kW	HP		2x	0	5	10	15	20	25	30	35	40	25	50	55	60	65	70
									3x	0	7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5
2 Pump	1029311	1029371	14.8	DPV25/2	4	5.5	H Meters		41	40.5	40	40	39	38	37	36	35.5	34	33	31	29	26	24
3 Pump	1029328	1029388	22.2																				
2 Pump	1029312	1029372	20	DPV25/3	5.5	7.5			63	62	61	60.5	60	59	57	56	54	52	50	47	44	42	38
3 Pump	1029329	1029389	30																				
2 Pump	1029313	1029373	26.6	DPV25/4	7.5	10			84	83	82	81	80	78	76	75	73	70	67	64	59	54	50
3 Pump	1029330	1029390	39.9																				
2 Pump	1029314	1029374	38.6	DPV25/6	11	15			124	123	122	121	120	117	115	113	109	104	100	95	89	83	74
3 Pump	1029331	1029391	57.9																				

* 400V/3PH/50Hz Power supply
* Power (P2) figures are per pump

* Curves show individual pump performance. See tables for 2 & 3 pump performance details
* FLC - Full Load Current

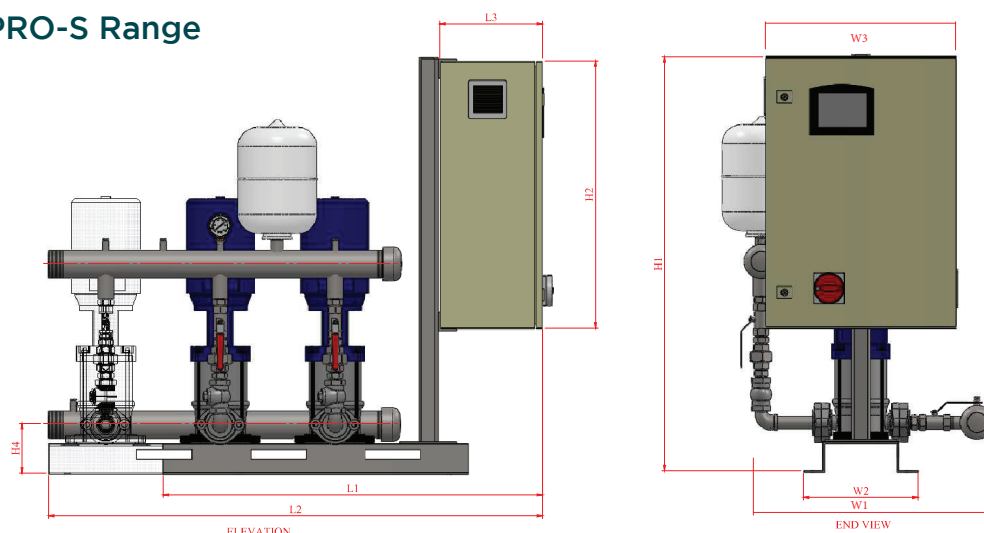
PRO Variable Speed Range

PRO-E Range



Model	No. Of Pumps	H1(mm)	H3(mm)	L1(mm)	L2(mm)	W1(mm)	W2(mm)	PIPE CONNECTIONS	
								Inlet	Outlet
DPV6	2	1216	125	923		*700	300	2"BSPP	
	3	1216	125		1135	*700	300	2"BSPP	
DPV10	2	1264	155	923		*700	300	2 1/2"BSPP	
	3	1264	155		1135	*700	300	2 1/2"BSPP	
DPV15	2	1291	155	923		*700	350	3"BSPP	
	3	1291	155		1285	*700	350	3"BSPP	
DPV25	2	1647	215	923		*700	350	DN100 PN16 Flanged	
	3	1647	215		1285	*700	350	DN100 PN16 Flanged	

PRO-S Range



Model	No. Of Pumps	H1(mm)	H2(mm)	H4(mm)	L1(mm)	L2(mm)	L3(mm)	W1(mm)	W2(mm)	W3(mm)	PIPE CONNECTIONS	
											Inlet	Outlet
DPV6	2	1481	600	125	1035		210	*700	300	600	2"BSPP	
	3	1481	800	125		1245	210	*700	300	600	2"BSPP	
DPV10	2	1481	600	155	1035		210	*700	300	600	2 1/2"BSPP	
	3	1481	800	155		1245	210	*700	300	600	2 1/2"BSPP	
DPV15	2	1481	1000	155	1095		260	*700	300	600	3"BSPP	
	3	1481	1000	155		1445	280	*700	350	800	3"BSPP	
DPV25	2	1481	1000	215	1095		260	*700	350	600	DN100 PN16 Flanged	
	3	1481	1000	215		1485	300	*700	350	800	DN100 PN16 Flanged	

* Approximate measurements only

CUBE

Range Specification

Features

- › Constant working pressure
- › Auto rotation of duty pump
- › Auto changeover on duty pump trip
- › Pump staging
- › 24 hr test run function
- › Pumps with integrated non return valve
- › Floor or wall mounting installation
- › Leak water detection Integrated in the unit housing
- › BMS I/O connection



Protection

- › Dry run protection
- › Overload protection
- › Thermal overload protection
- › Adjustable correction factor for pressure loss in the system
- › Feed tank low level alarm

Components

- › Variable speed drive per pump
- › Mega Control digital display; showing system value, pump status, operating hours and comprehensive alarm log
- › 2.5m cable with a junction box complete with load switch
- › 4 x vibration isolators
- › Pressure vessel
- › Pumps and manifolds in 304SS
- › AC power plug connection
- › GSM dial out alarm (Optional)
- › Wall mounting bracket (Optional)

Pump:	DPVME 4/4
Max head:	10 bar
Number of pumps:	2
Capacity:	up to 16m ³ /h
kW range:	1.1kW
Power input:	230V/1PH/50Hz - (22A) 400V/3PH/50Hz - (11A)
Min inlet pressure:	0.2 bar
Temperature range:	Liquid - +4°C to 40°C Ambient - 0°C to 30°C
DBA:	<60
Pressure rating:	PN10
Weight:	85kg

Efficiency in space & energy consumption

Innovative booster system

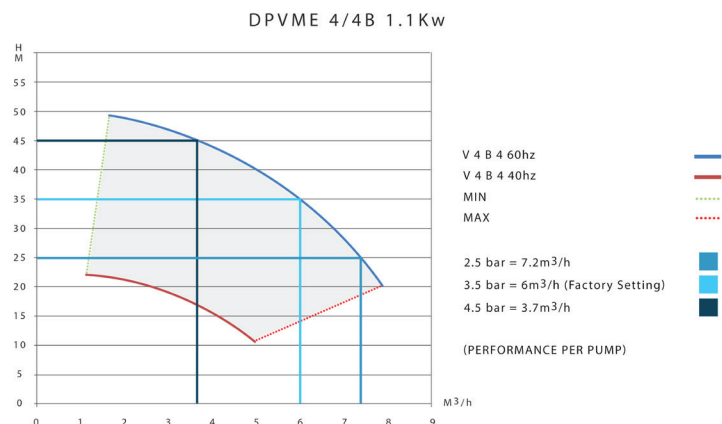
- › Compact and powerful
- › Maintenance friendly
- › Interactive controllers
- › Versatile installation options

All-in-one

- › Fully enclosed for quiet operation

Dimensions

- › 685 x 530 x 648 mm (D x W x H)



Code	Model	Power (P2)		Q m³/h	1 Pump	0	1	2	3	4	5	6	7	8
		kW	HP		2 Pump	0	2	4	6	8	10	12	14	16
1020835	PB CUBE DPVME 4/4	1.1	1.5	H Meters		48	48	47	46	44	40	35	26	20


* Power (P2) figures are per pump * 200V/1PH/50Hz & 400V/3PH/50Hz Power supply available





Rethinking Water

17.07.2017

 www.epswater.ie  info@epswater.ie  www.powerboost.ie

Mallow, Co. Cork
 022 31200

Ballyhaunis, Co. Mayo
 094 9633500

Mountrath, Co. Laois
 057 8732279

Naas, Co. Kildare
 045 843614