



Clean Water
**Booster
Sets**

POWERBOOST

POWERBOOST

Introducing 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 unique ranges to cover many 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 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
- 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

- 50 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 our sales team for support, see the back cover for contact information.

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	9.7 bar	≤ 2.2 kW
PRO 	Commercial Industrial Municipal 	1 x duty pump - up to 75m ³ /h 2 x duty pump - up to 150m 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

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
Number of pumps:	1 - 3
Capacity:	1 x duty pump - up to 12m ³ /h 2 x duty pump - up to 24m 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

Controls

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 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



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.

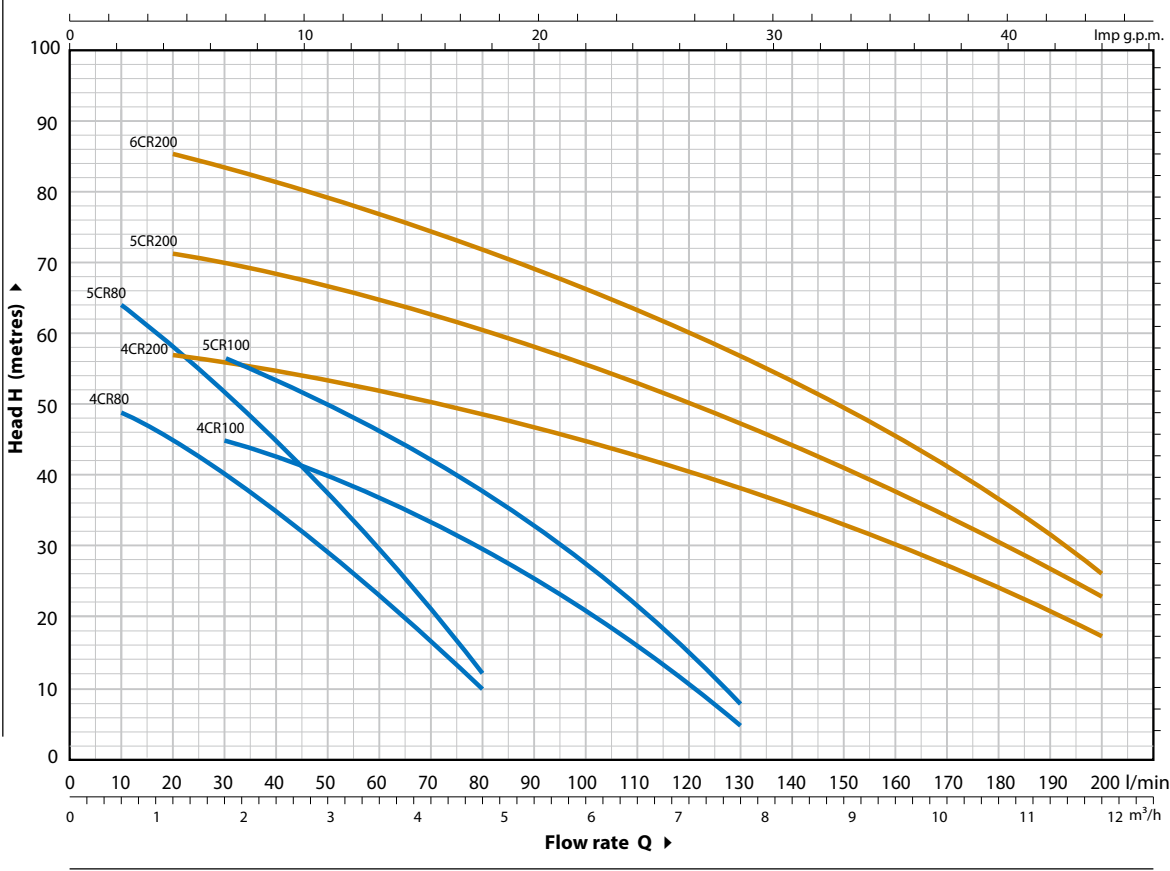
The control unit alternates the order in which pumps start to balance the hours run on each pump. There is an input for a float switch to be installed in the feed tank and a volt free BMS connection for general alarm signals. In the event of an alarm condition the controller attempts to automatically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

FLOW V Variable Speed Range



Characteristic Curves & Performance Data

50 Hz n= 2900 rpm HS= 0 m



230V/1PH/50Hz Power supply

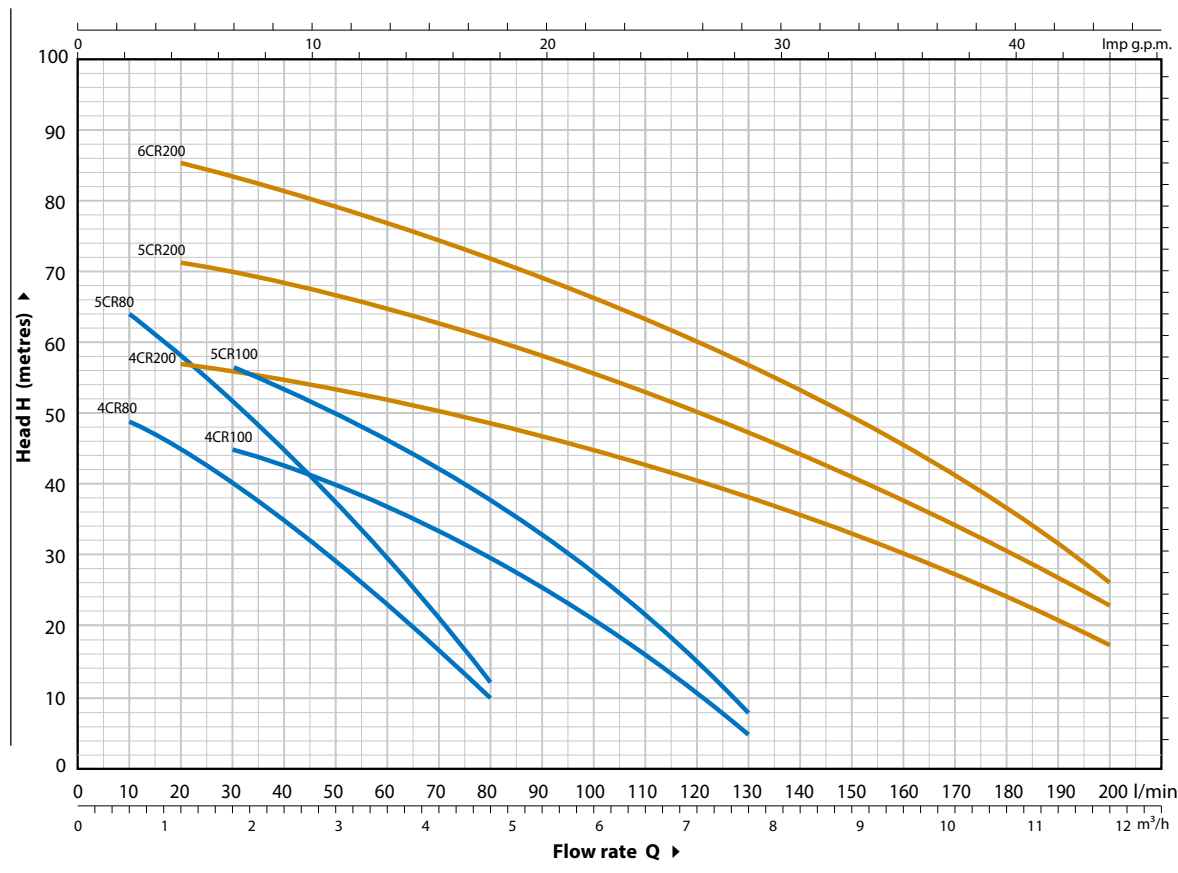
Code		FLC (A)	Model	Power (P2)			1x	0	05	10	15	20	25	30	40	50	60	70	80	90	100	110	120	130
230V/1PH				(Per Pump)	Q l/min	2x	0	10	20	30	40	50	60	80	100	120	140	160	180	200	220	240	260	
				kW	HP	Pump	3x	0	15	30	45	60	75	90	120	150	180	210	240	270	300	330	360	390
2 PUMP	1029560	6.8	4CR80	0.55	0.75	H Meters		52	50	49	47	44.5	42	40	34	28.5	22.5	16	10	-	-	-	-	-
3 PUMP	1029561	10.2						67	66	64	62	59	56	53	45.5	37.5	29.5	20.5	12	-	-	-	-	-
2 PUMP	1029562	8.6	5CR80	0.75	1			50	50	49	48	47	46	45	42	39.5	37	34	30.5	26.5	22	17	11	5
3 PUMP	1029563	12.9						63	62	61.5	60.5	59.5	58	57	53.5	50.5	46.5	42.5	38	33	28	22	15	8
2 PUMP	1029564	9	4CR100	0.75	1			63	62	61.5	60.5	59.5	58	57	53.5	50.5	46.5	42.5	38	33	28	22	15	8
3 PUMP	1029565	13.5						73	72	71.5	71	69	65.5	62	56.5	48	44.5	38	35.5	30	24	17	11	5
2 PUMP	1035355	8.4	5CR100	1.1	1.5			87	86	85.5	85	82	78	73	67	57	53	45	36	26	17	11	5	
3 PUMP	1035353	12.6						102	100	99	97	94	90	85	78	67	62	53	44	35	26	17	11	

Code		FLC (A)	Model	Power (P2)			1x	0	05	10	20	40	60	80	100	130	140	160	180	200
230V/1PH				(Per Pump)		Q l/min	2x	0	10	20	40	80	120	160	200	260	280	320	360	400
				kW	HP	Pump	3x	0	15	30	60	120	180	240	300	390	420	480	540	600
2 PUMP	1029566	14.6	4CR200	1.5	2	H Meters		58	57.5	57.5	57	55	52.5	49.5	45	38	35.5	30	24	17
3 PUMP	1029567	21.9						73	72	71.5	71	69	65.5	62	56.5	48	44.5	38	30	22
2 PUMP	1029568	18.8	5CR200	1.8	2.5			87	86	85.5	85	82	78	73	67	57	53	45	36	26
3 PUMP	1029569	28.2						102	100	99	97	94	90	85	78	67	62	53	44	35
2 PUMP	1029570	20.4	4CR200	2.2	3			117	115	114	112	109	105	100	93	81	76	64	52	40
3 PUMP	1029571	30.6						137	135	134	132	128	123	116	107	94	88	74	60	46

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

Characteristic Curves & Performance Data

50 Hz n= 2900 rpm HS= 0 m



400V/3PH/50Hz Power supply

Code		FLC (A)	Model	Power (P2)			1x	0	05	10	15	20	25	30	40	50	60	70	80	90	100	110	120	130
400V/3PH				(Per Pump)		Q l/min	2x	0	10	20	30	40	50	60	80	100	120	140	160	180	200	220	240	260
				kW	HP	Pump	3x	0	15	30	45	60	75	90	120	150	180	210	240	270	300	330	360	390
2 PUMP	1037485	4	4CR80	0.55	0.75	H Meters	52	50	49	47	44.5	42	40	34	28.5	22.5	16	10	-	-	-	-	-	
3 PUMP	1037492	6																						
2 PUMP	1037486	5	5CR80	0.75	1		67	66	64	62	59	56	53	45.5	37.5	29.5	20.5	12	-	-	-	-	-	
3 PUMP	1037493	7.5																						
2 PUMP	1037487	5.2	4CR100	0.75	1		50	50	49	48	47	46	45	42	39.5	37	34	30.5	26.5	22	17	11	5	
3 PUMP	1037494	7.8																						
2 PUMP	1037488	4.8	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	
3 PUMP	1037495	7.2																						

Code		FLC (A)	Model	Power (P2)			1x	0	05	10	20	40	60	80	100	130	140	160	180	200
400V/3PH				(Per Pump)		Q l/min	2x	0	10	20	40	80	120	160	200	260	280	320	360	400
				kW	HP	Pump	3x	0	15	30	60	120	180	240	300	390	420	480	540	600
2 PUMP	1037489	8.4	4CR200	1.5	2	H Meters														
3 PUMP	1037496	12.6																		
2 PUMP	1037490	10.8	5CR200	1.8	2.5															
3 PUMP	1037497	16.2																		
2 PUMP	1037491	11.8	4CR200	2.2	3.1															
3 PUMP	1037498	17.7																		

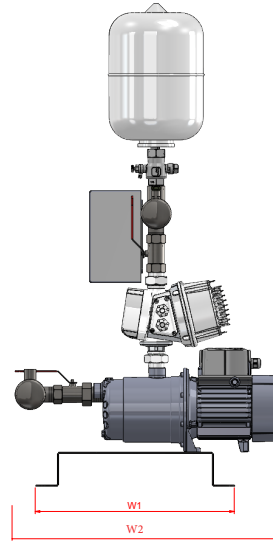
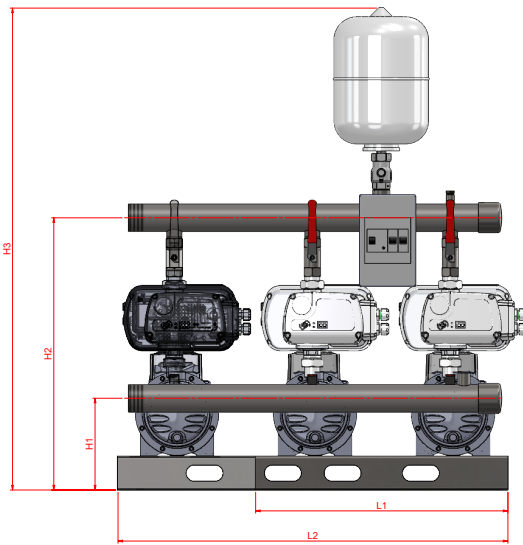
* Curves show individual pump performance. See tables for 2 & 3 pump performance details

*FLC - Full Load Current

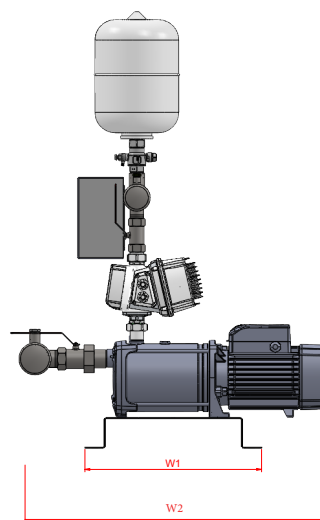
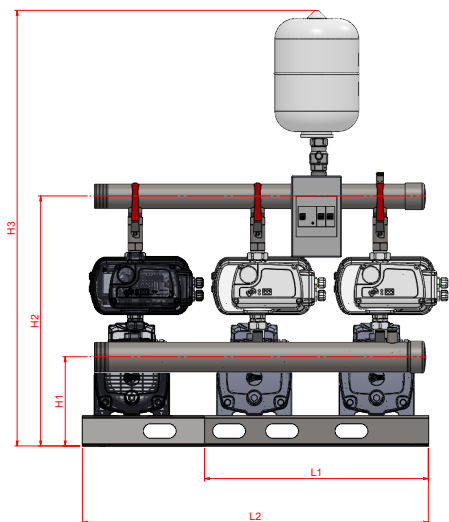
FLOW V Variable Speed Range



FLOW V - CR Range



Model	No. Of Pumps	H1(mm)	H2(mm)	H3(mm)	L1(mm)	L2(mm)	W1(mm)	W2(mm)	PIPE CONNECTIONS	
									Inlet	Outlet
4CR80	2	200	600	950	550		440	590	2"BSPP	
	3	200	600	950		850	440	590	2"BSPP	
5CR80	2	200	600	950	550		440	590	2"BSPP	
	3	200	600	950		850	440	590	2"BSPP	
4CR100	2	200	600	950	550		440	590	2"BSPP	
	3	200	600	950		850	440	590	2"BSPP	
5CR100	2	200	600	950	550		440	590	2"BSPP	
	3	200	600	950		850	440	590	2"BSPP	



Model	No. Of Pumps	H1(mm)	H2(mm)	H3(mm)	L1(mm)	L2(mm)	W1(mm)	W2(mm)	PIPE CONNECTIONS	
									Inlet	Outlet
4CR200	2	220	620	970	550		440	790	2 1/2" BSPP	2"BSPP
	3	220	620	970		850	440	790	2 1/2" BSPP	2"BSPP
5CR200	2	220	620	970	550		440	790	2 1/2" BSPP	2"BSPP
	3	220	620	970		850	440	790	2 1/2" BSPP	2"BSPP
6CR200	2	220	620	970	550		440	790	2 1/2" BSPP	2"BSPP
	3	220	620	970		850	440	790	2 1/2" BSPP	2"BSPP

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
Number of pumps:	2 - 3
Capacity:	1 x duty pump - up to 75m ³ /h 2 x duty pump - up to 150m ³ /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



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, functioning 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 this, then the control unit will start the second pump, and then the third following three pump systems. Their speed is varied 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 are terminals in the control panel for a float switch input. The float switch is fitted in the feed tank and protects the pumps from running on low level. This option is not available in single phase PRO E sets. Volt free status signals for the booster sets are available for BMS connection.



Remote Monitoring

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

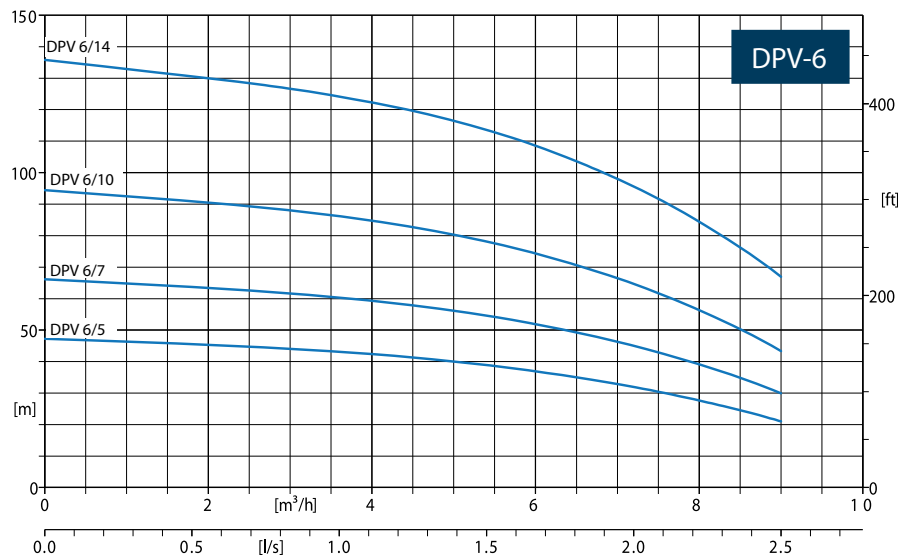
These include:

- 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.



Characteristic Curves & Performance Data

50Hz n=2900 rpm HS=0 m



230V/1PH/50Hz Power supply

Code			FLC (A)	Model	Power (P2)		Q m³h Pump	1x	0	1	2	3	4	5	6	7	8	9
					(Per Pump)	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	12.5	DPV6/5	1.1	1.5	H Meters	48	47	46	44	42	40	38	33	28	21	
3 Pump	1029268	1029292	18.8															
2 Pump	1029263	1029287	12.3	DPV6/7	1.5	2		68	67	63	62	60	57	52	47	40	30	
3 Pump	1029269	1029293	25.9															
2 Pump	1029264	1029288	25.1	DPV6/10	2.2	3		95	92	90	88	84	80	75	66	56	44	
3 Pump	1029270	1029294	37.7															
2 Pump	-	1030938	32	DPV6/14	3	4		136	133	130	127	122	117	108	98	84	67	
3 Pump	-	1030944	48															

400V/3PH/50Hz Power supply

Code			FLC (A)	Model	Power (P2)		Q m³/h Pump	1x	0	1	2	3	4	5	6	7	8	9
					(Per Pump)	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	1029298	1029358	4.6	DPV6/5	1.1	1.5	H Meters		48	47	46	44	42	40	38	33	28	21
3 Pump	1029315	1029375	6.9															
2 Pump	1029299	1029359	6.4	DPV6/7	1.5	2			68	67	63	62	60	57	52	47	40	30
3 Pump	1029316	1029376	9.6															
2 Pump	1029300	1029360	9.2	DPV6/10	2.2	3			95	92	90	88	84	80	75	66	56	44
3 Pump	1029317	1021563	13.8															
2 Pump	1029301	1029361	11.6	DPV6/14	3	4			136	133	130	127	122	117	108	98	84	67
3 Pump	1029318	1029378	17.4															

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

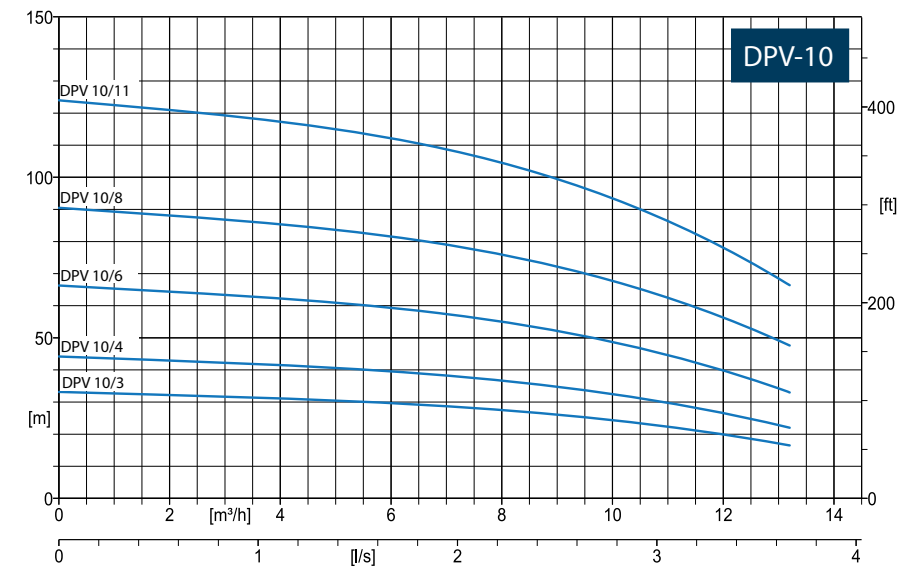
* FLC - Full Load Current

PRO Variable Speed Range



Characteristic Curves & Performance Data

50Hz n=2900 rpm HS=0 m



230V/1PH/50Hz Power supply

Code			FLC (A)	Model	Power (P2)		Q m³/h Pump	1x	0	1	2	3	4	5	6	7	8	9	10	11	12	13
		(Per Pump)			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	12.5	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	18.8																			
2 Pump	1029266	1029290	12.3	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	25.9																			
2 Pump	1029267	1029291	25.1	DPV10/6	2.2	3		67	66	64	62	61	60.5	59	57	54	52	49	44	40	34	
3 Pump	1029273	1029297	37.7																			
2 Pump	1030945	1030946	32	DPV10/8	3	4		90	89	88	86	85	83.5	82	78	75	73	68	63	56	49.5	
3 Pump	1030950	1030951	48																			
2 Pump	-	1080530	40.2	DPV10/11	4	5.5		124	123	121	119	117	115	113	108	104	100	93	86	78	69	
3 Pump	-	1080534	60.3																			

400V/3PH/50Hz Power supply

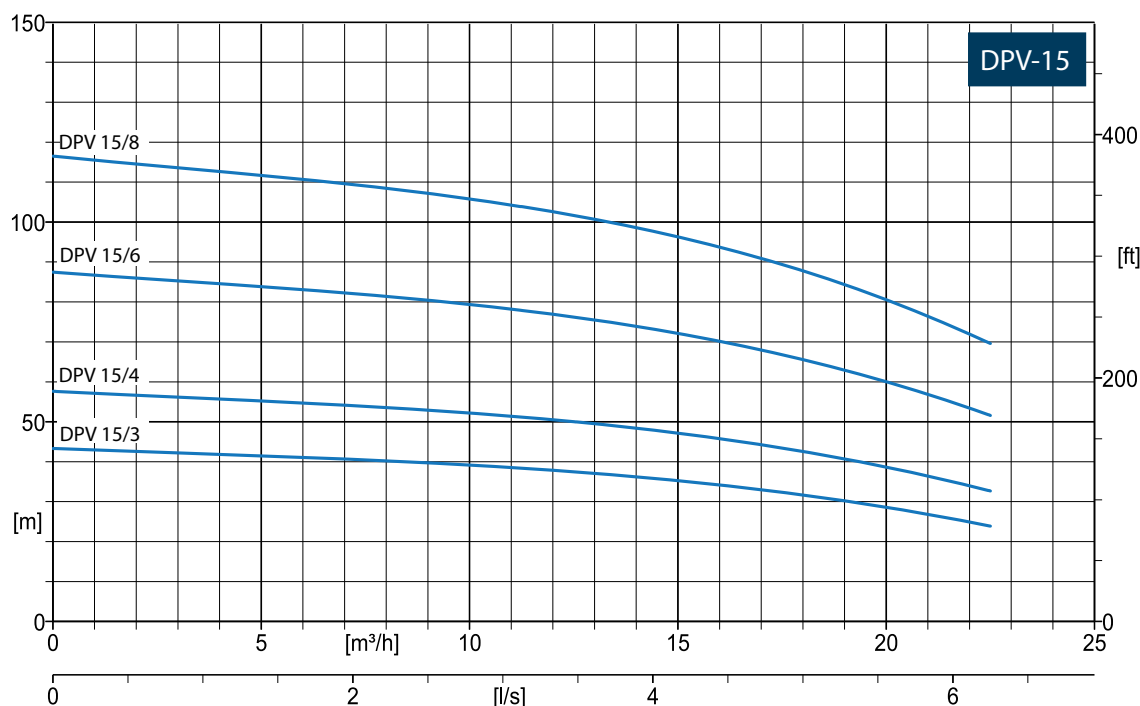
Code			FLC (A)	Model	Power (P2) (Per Pump)		Q m³/h Pump	1x	0	1	2	3	4	5	6	7	8	9	10	11	12	13
								2x	0	2	4	6	8	10	12	14	16	18	20	22	24	26
	PRO E	PRO S						kW	HP		3x	0	3	6	9	12	15	18	21	24	27	30
2 Pump	1029302	1029362	4.6	DPV10/3	1.1	1.5	H Meters		33	32.5	32	31.5	31	30	29	28	27	26	24	23	20	17
3 Pump	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																			

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

* FLC - Full Load Current

Characteristic Curves & Performance Data

50Hz n=2900 rpm HS=0 m



230V/1PH/50Hz Power supply

Code		FLC (A)	Model	Power (P2)		Q m³h Pump	1x	0	2.5	5	7.5	10	12.5	15	17.5	20	22.5
				(Per Pump)	2x		0	5	10	15	20	25	30	35	40	25	
	PRO S						kW	HP		3x	0	7.5	15	22.5	30	37.5	45
2 Pump	1080531	32	DPV15/3	3	4	H Meters		44	42	41	40	39	38	35	33	28	24
3 Pump	1080535	48															
2 Pump	1080532	40.2	DPV15/4	4	5.5			57	56	55	54	52	50	47	44	39	33
3 Pump	1080536	60.3															

400V/3PH/50Hz Power supply

Code			FLC (A)	Model	Power (P2)		Q m³h Pump	1x	0	2.5	5	7.5	10	12.5	15	17.5	20	22.5
					(Per Pump)	2x		0	5	10	15	20	25	30	35	40	25	
	PRO E	PRO S			kW	HP		3x	0	7.5	15	22.5	30	37.5	45	52.5	60	67.5
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	14.8	DPV15/4	4	5.5		57	56	55	54	52	50	47	44	39	33	
3 Pump	1029325	1029385	22.2															
2 Pump	1029309	1029369	20	DPV15/6	5.5	7.5		88	85	84	85	79.5	76	72	66	60	52	
3 Pump	1029326	1029386	30															
2 Pump	1029310	1029370	26.6	DPV15/8	7.5	10		117	114	112	109	106	102	96	89	80	69.5	
3 Pump	1029327	1029387	39.9															

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

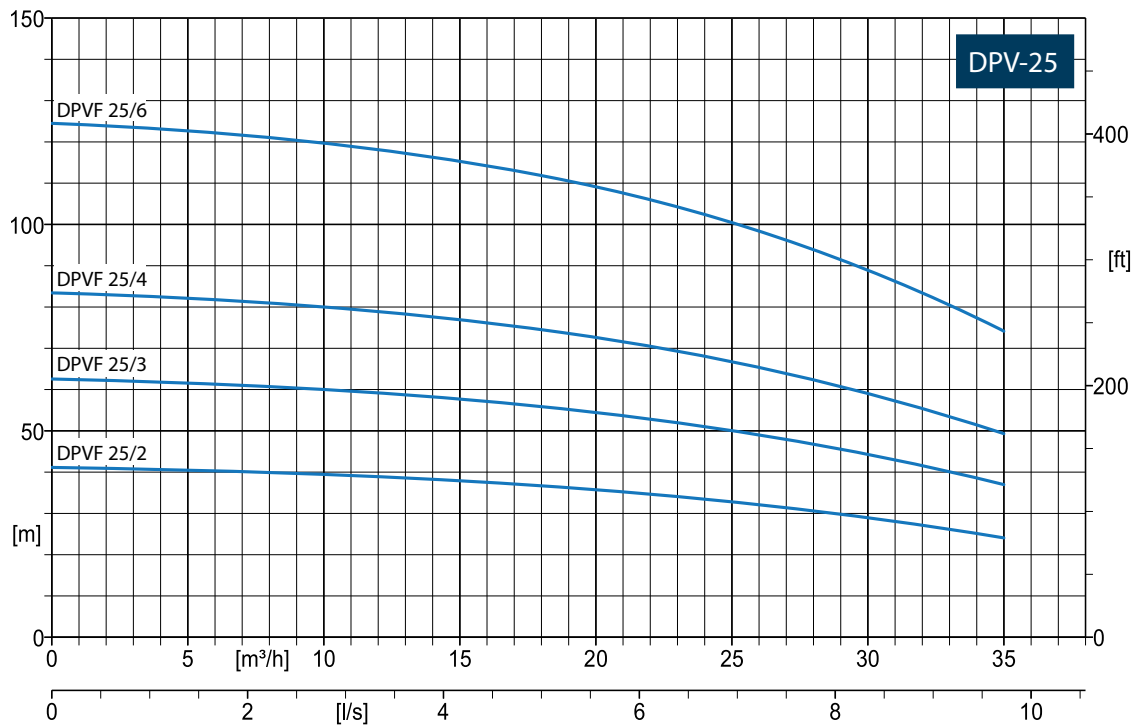
* FLC - Full Load Current

PRO Variable Speed Range



Characteristic Curves & Performance Data

50Hz n=2900 rpm HS=0 m



230V/1PH/50Hz Power supply

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	25	27.5	30	32.5	35
							2x	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70
PRO S				kW	HP		3x	0	7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5	105
2 Pump	1080533	40.2	DPVF25/2	4	5.5	H Meters		41	40.5	40	40	39	38	37	36	35.5	34	33	31	29	26	24
3 Pump	1080537	60.3																				

400V/3PH/50Hz Power supply

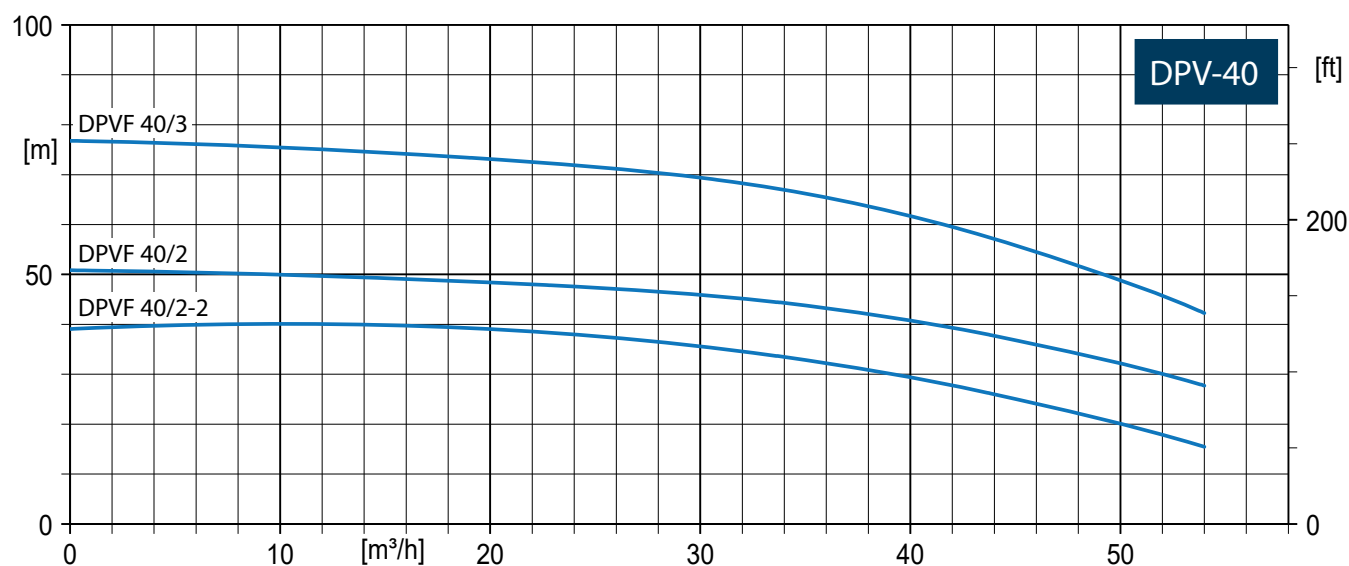
Code			FLC (A)	Model	Power (P2) (Per Pump)		Q m³/h Pump	1x	0	2.5	5	7.5	10	12.5	15	17.5	20	22.5	25	27.5	30	32.5	35
								2x	0	5	10	15	20	25	30	35	40	25	50	55	60	65	70
	PRO E	PRO S			kW	HP		3x	0	7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5	105
2 Pump	1029311	1029371	14.8	DPVF25/2	4	5.5	H Meters		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	DPVF25/3	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	DPVF25/4	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	DPVF25/6	11	15			124	123	122	121	120	117	115	113	109	104	100	95	89	83	74
3 Pump	1029331	1029391	57.9																				

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

* FLC - Full Load Current

Characteristic Curves & Performance Data

50Hz n=2900 rpm HS=0 m



400V/3PH/50Hz Power supply

Code		FLC (A)	Model	Power (P2)		Q m³h	1x	0	5	10	15	20	25	30	35	40	45	50	55
				(Per Pump)			2x	0	10	20	30	45	50	60	70	80	90	100	110
	PRO S			kW	HP	Pump	3x	0	15	30	45	60	75	90	105	120	135	150	165
2 Pump	1080153	20	DPVF40/2-2	5.5	7.5	H Meters													
3 Pump	1080167	30																	
2 Pump	1080154	26.6	DPVF40/2	7.5	10														
3 Pump	1080170	39.9																	
2 Pump	1080155	38.6	DPVF40/3	11	15														
3 Pump	1080173	57.9																	

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

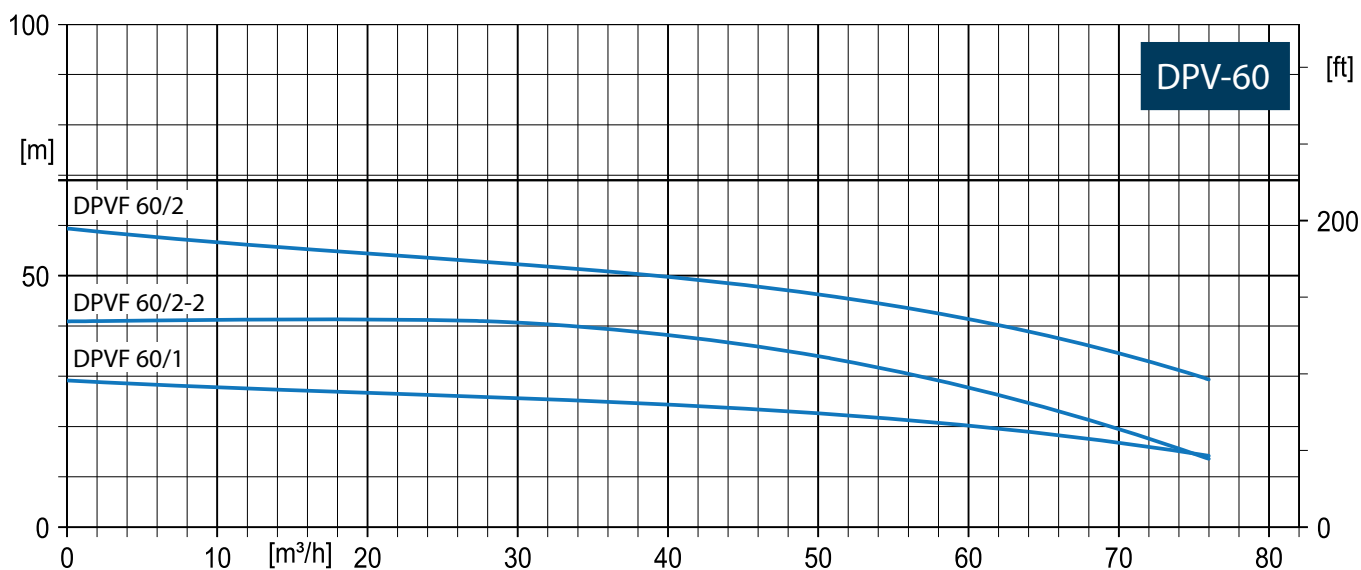
* FLC - Full Load Current

PRO Variable Speed Range



Characteristic Curves & Performance Data

50Hz n=2900 rpm HS=0 m



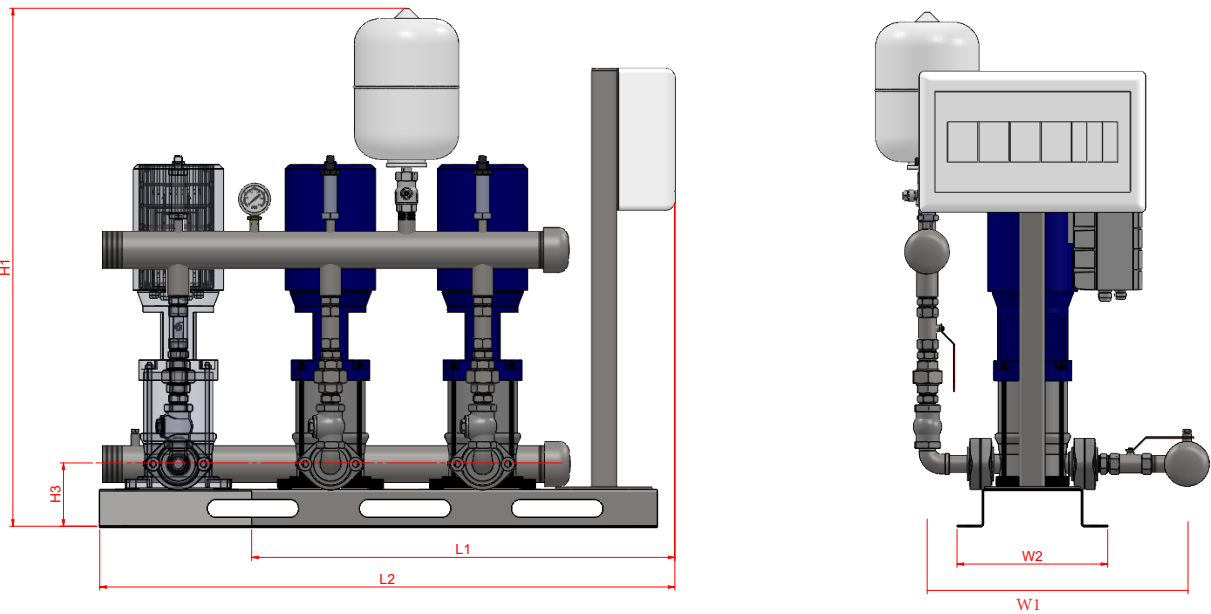
400V/3PH/50Hz Power supply

Code		FLC (A)	Model	Power (P2) (Per Pump)		Q m³h Pump	1x	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
							2x	0	10	20	30	45	50	60	70	80	90	100	110	120	130	140	150
	PRO S			kW	HP		3x	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225
2 Pump	1080189	20	DPVF60/1	5.5	7.5	H Meters		29	28.5	28	27	26.5	26	25	24.5	24	23	22	21	20	18	16	14
3 Pump	1080190	30																					
2 Pump	1080163	26.6	DPVF60/2-2	7.5	10			41	41	41	41	41	41	40.5	40	38	36	34	32	28	24	20	14
3 Pump	1080174	39.9																					
2 Pump	1079116	38.6	DPVF60/2	11	15			59	58	57	56	54	53	52	51	50	48	47	44	41	38	64	29
3 Pump	1080175	57.9																					

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

* FLC - Full Load Current

PRO E Range



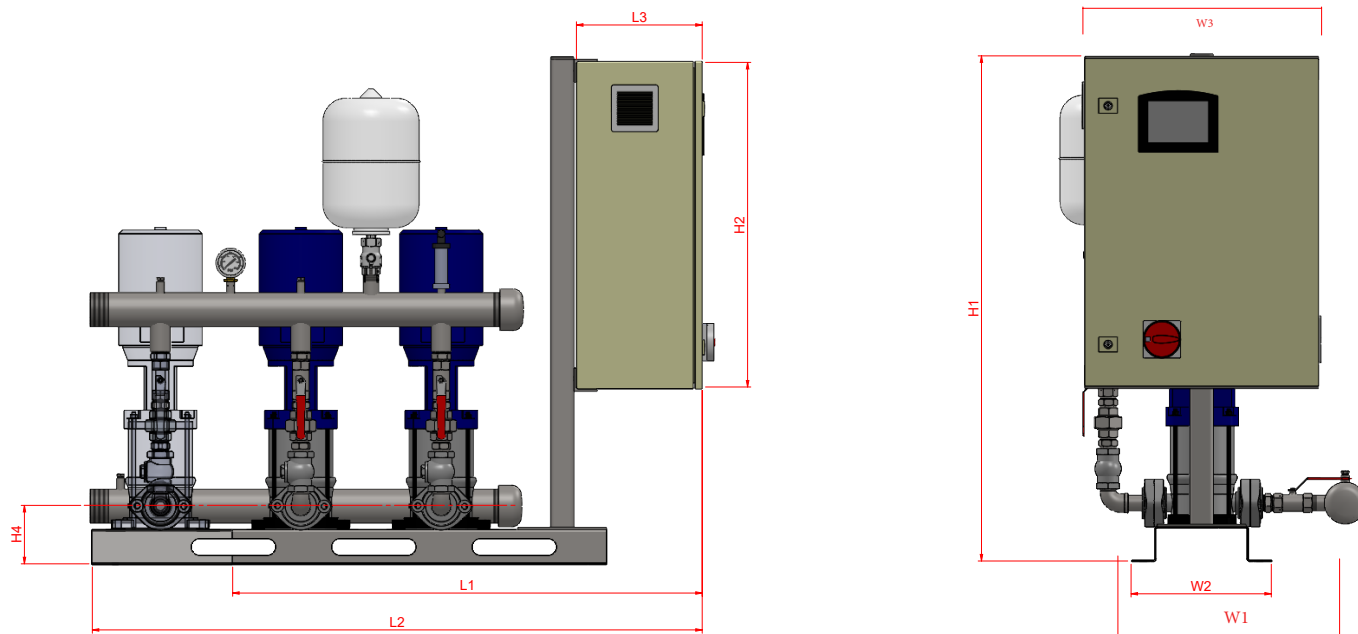
Model	No. Of Pumps	H1(mm)	H3(mm)	L1(mm)	L2(mm)	W1(mm)	W2(mm)	PIPE CONNECTIONS	
								Inlet	Outlet
DPV6	2	1216	125	923		*700	300	2"BSPP	
	3	1216	125		1135	*700	300	2 1/2"BSPP	
DPV10	2	1264	155	923		*700	300	2 1/2"BSPP	
	3	1264	155		1135	*700	300	2 1/2"BSPP	
DPV15	2	1291	155	923		*700	350	3"BSPP	
	3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

* Approximate measurements only

PRO Variable Speed Range



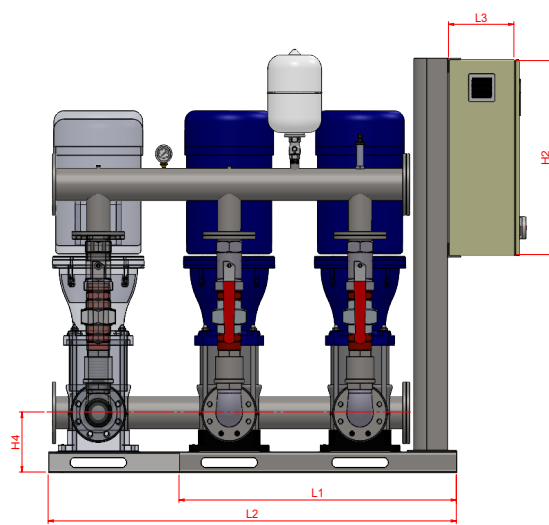
PRO S Range



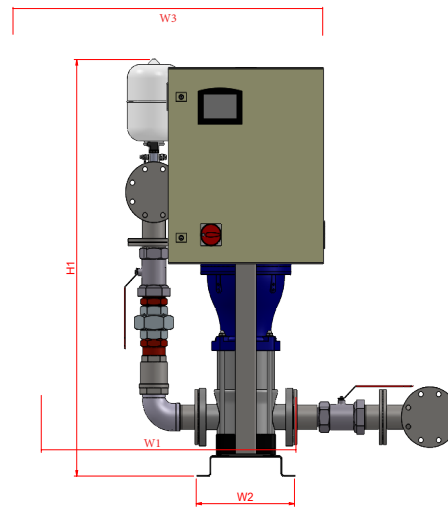
Model	No. Of Pumps	H1(mm)	H2(mm)	H4(mm)	L1(mm)	L2(mm)	L3(mm)	W1(mm)	W2(mm)	W3(mm)	PIPE CONNECTIONS	
											Inlet	Outlet
DPV6	2	1458	600	125	955		210	*440	300	600	2"BSPP	
	3	1485	700	125		1285	210	*440	300	500	2 1/2"BSPP	
DPV10	2	1485	600	155	955		210	*550	300	600	2 1/2"BSPP	
	3	1485	700	155		1285	210	*550	300	500	2 1/2"BSPP	
DPV15 ≤ 5.5KW	2	1485	600	180	1095		210	*700	350	600	3"BSPP	
	3	1485	700	180		1445	210	*700	350	500	3"BSPP	
DPV15 ≥ 7.5KW	2	1458	600	180	1095		300	*700	350	600	3"BSPP	
	3	1485	800	180		1445	300	*700	350	600	3"BSPP	
DPV25 ≤ 5.5KW	2	1485	600	215	1095		210	*700	350	600	DN100 PN16 FLANGED	
	3	1485	700	215		1485	210	*700	350	500	DN100 PN16 FLANGED	
DPV25 ≥ 7.5KW	2	1485	600	215	1095		300	*700	350	600	DN100 PN16 FLANGED	
	3	1485	800	215		1485	300	*700	350	600	DN100 PN16 FLANGED	

* Approximate measurements only

PRO S Range



ELEVATION



END VIEW

Model	No. Of Pumps	H1(mm)	H2(mm)	H4(mm)	L1(mm)	L2(mm)	L3(mm)	W1(mm)	W2(mm)	W3(mm)	PIPE CONNECTIONS (FLANGED)	
											Suction	Discharge
DPVF40 ≤ 5.5KW	2	1500	600	240	1210		210	*1000	380	600	DN100 PN16	DN80 PN16
	3	1500	700	240		1710	210	*1000	380	500	DN150 PN16	DN100 PN16
DPVF40 ≥ 7.5KW	2	1500	600	240	1300		300	*1000	380	600	DN100 PN16	DN80 PN16
	3	1485	800	240		1800	300	*1000	380	600	DN150 PN16	DN100 PN16
DPV60 ≤ 5.5KW	2	1500	600	240	1210		210	*1200	380	600	DN150 PN16	DN100 PN16
	3	1500	700	240		1710	210	*1200	380	500	DN150 PN16	DN150 PN16
DPV60 ≥ 7.5KW	2	1500	600	240	1300		300	*1200	380	600	DN150 PN16	DN100 PN16
	3	1500	800	240		1800	300	*1200	380	600	DN150 PN16	DN150 PN16

* Approximate measurements only

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

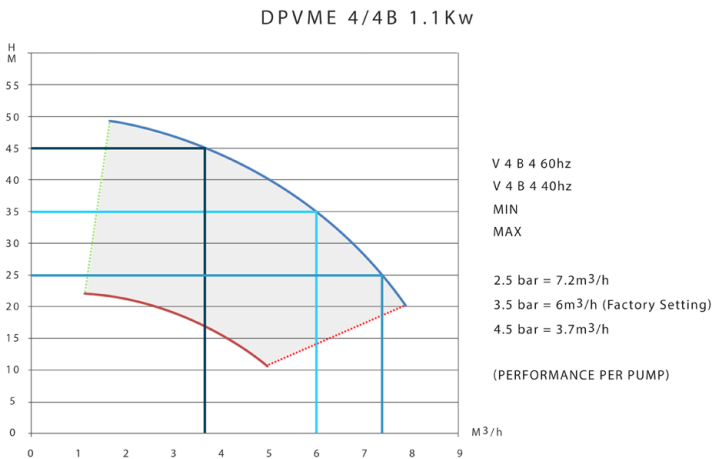
- Dry run protection
- Overload protection
- Thermal overload protection
- Adjustable correction factor for pressure loss in the system
- Feed tank low level alarm

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 16m³/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 and 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

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