



DUTYPOINT.COM

FLOWBOOST PRIME COLD WATER BOOSTER SET



Last updated:
08/08/24

Flowboost Prime

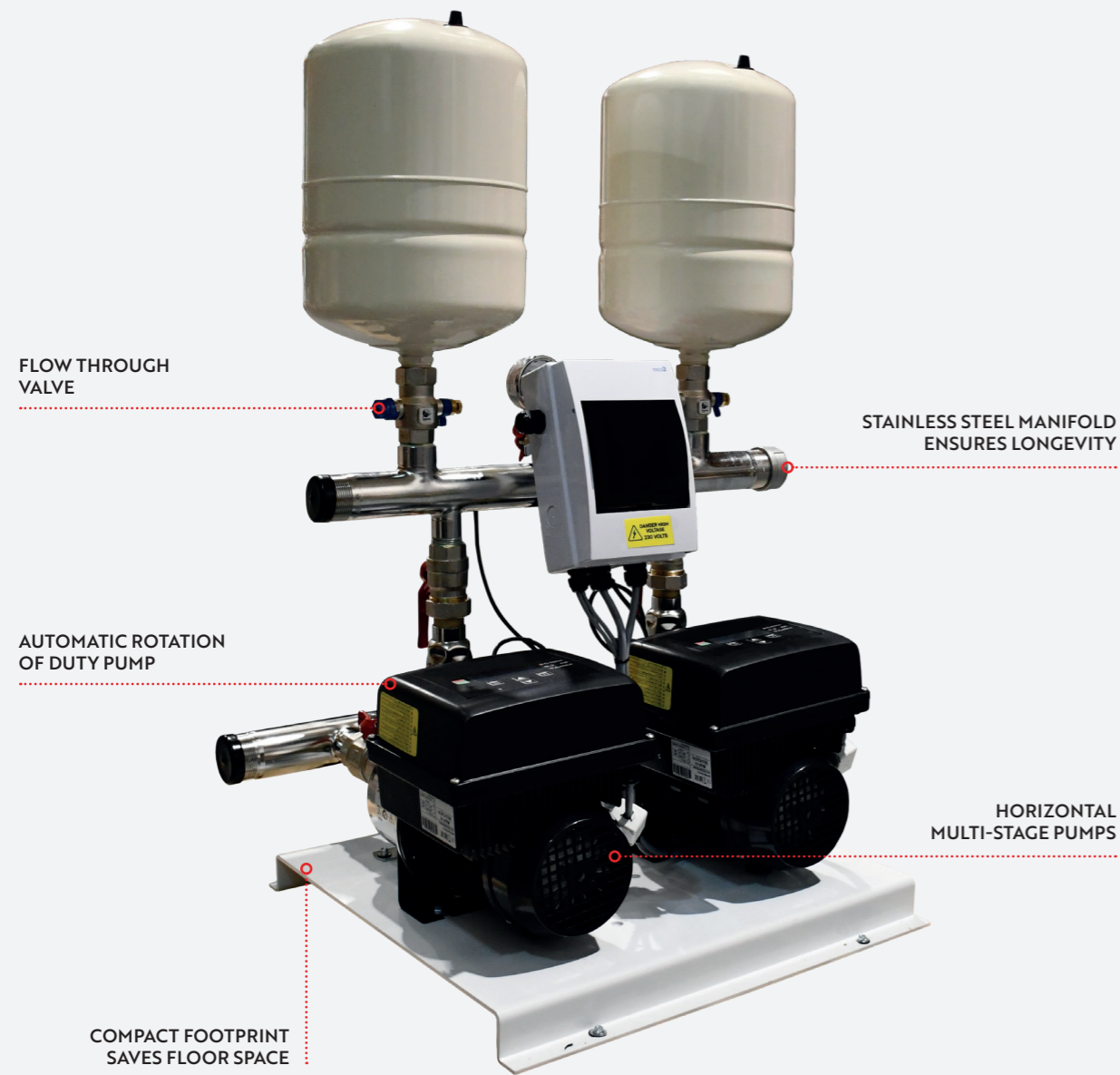
**Prime range of variable
speed boosters.**

PRODUCT OVERVIEW

- Regulation 4/WRAS-approved stainless steel horizontal multi-stage pumps
- Automatic rotation of duty pump to ensure even wear
- Efficient leakage monitoring to protect pumps in the event of repeated starts
- Digital operation/error status signalling via LEDs and on-screen alerts display



Key Features



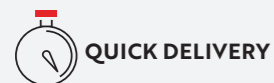
FLOW THROUGH VALVE

STAINLESS STEEL MANIFOLD ENSURES LONGEVITY

AUTOMATIC ROTATION OF DUTY PUMP

HORIZONTAL MULTI-STAGE PUMPS

COMPACT FOOTPRINT SAVES FLOOR SPACE



QUICK DELIVERY



INTELLIGENT OVERLOAD CUT OUT



AUTOMATIC ROTATION OF DUTY PUMP



Specification

The Flowboost Prime range consists of multiple compact variable speed booster sets that use horizontal multistage pumps and are controlled by the E-Motion variable speed inverter drive. The drive gives the user a vast array of features through the digital display.

The booster set range has KIWA Regulation 4 approval and has been designed using Regulation 4/WRAS-approved pumps, valves, flow-through valves and vessels.

These units are suitable for domestic and commercial use and are fully wired and tested prior to despatch.

PRODUCT OVERVIEW

- Regulation 4/WRAS-approved stainless steel horizontal multi-stage pumps
- Regulation 4/WRAS-approved isolating valves and non-return valves
- Regulation 4/WRAS-approved flow through valve and anti-cycle vessel arrangement
- Stainless steel suction and food-grade discharge manifolds
- Suitable for a single phase 230 V or 3 phase 415 V supply
- Pump-mounted inverter
- Low water level facility and BMS Volt free contacts (2 inputs and 2 outputs)
- Automatic rotation of duty pump to ensure even wear
- Power supply under and over voltage display
- Robust steel powder-coated base
- Digital operation/error status signalling via LEDs and on-screen alerts display
- Efficient leakage monitoring to protect pumps in the event of repeated starts
- Intelligent overload cut out to increase the longevity of inverters
- Automatic rotation of duty pump

RANGE PERFORMANCE

| | |
|------------------------|--------------------------|
| Number of pumps | 2-4 |
| Flow range | 0.5 – 14 l/s |
| Pressure range | 2.5 – 10 bar |
| Max system pressure | 16 bar |
| Controller type | Motor mounted |
| Max system temperature | 40°C |
| Noise data | Motor at 3600 rpm <70LpA |

*Higher temperature options available; please contact the sales team. **More specific details available on request.

MATERIAL SPECIFICATION

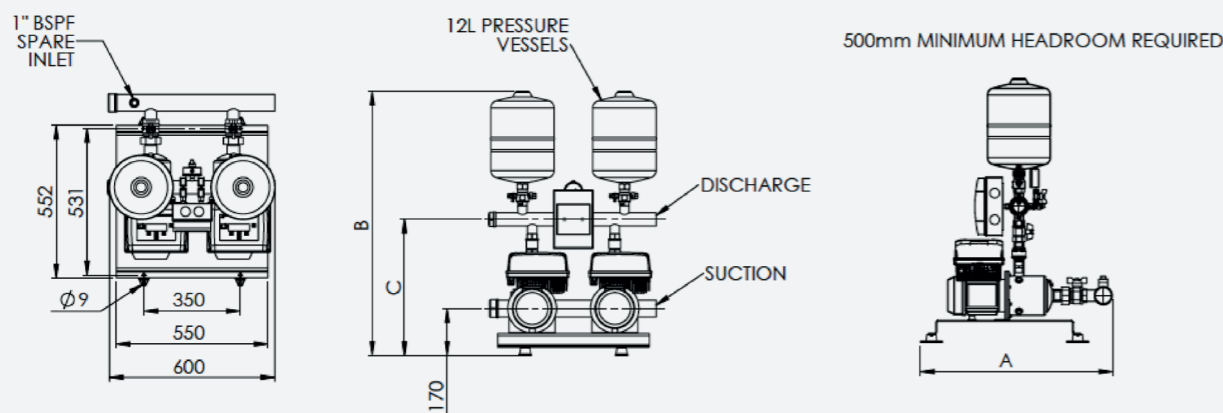
| | |
|----------------------|---------------------------------|
| Manifolds | AISI 316 stainless steel |
| Isolation valves | AISI 304 stainless steel |
| Non-return valves | AISI 304 stainless steel |
| Pressure transducers | AISI 304 Stainless Steel |
| Pump casing | AISI 304 stainless steel |
| Pump impellers | AISI 304 stainless steel |
| Mechanical seals | Silicon carbide, graphite, EPDM |
| Pressure vessels | WRAS approved |
| Base plate | Powder-coated mild steel |

Flowboost Prime 2V.E.K.H Series

DRAWINGS AND DIMENSIONS

| Model no. | Motor power per pump (kW) | Full load current per pump (A) | | Suction DN1 | Discharge DN2 | Dimensions (mm) | | |
|----------------------|---------------------------|--------------------------------|---------|-------------|---------------|-----------------|--------------|----------------------|
| | | 1 phase | 3 phase | | | A (depth) | B** (height) | C (discharge centre) |
| PRIME-2V.E.K.H.*3005 | 0.75 | 2.7 | 1.6 | 2" BSP | 1½" BSP | 700 | 960 | 495 |
| PRIME-2V.E.K.H.*3007 | 1.1 | 3.8 | 2.1 | 2" BSP | 1½" BSP | 750 | 960 | 495 |
| PRIME-2V.E.K.H.*3009 | 1.5 | 5.5 | 3 | 2" BSP | 1½" BSP | 795 | 970 | 495 |
| PRIME-2V.E.K.H.*5004 | 1.1 | 3.8 | 2.1 | 2" BSP | 1½" BSP | 675 | 960 | 495 |
| PRIME-2V.E.K.H.*5005 | 1.1 | 3.8 | 2.2 | 2" BSP | 1½" BSP | 700 | 960 | 495 |
| PRIME-2V.E.K.H.*5006 | 1.5 | 5.5 | 2.9 | 2" BSP | 1½" BSP | 725 | 960 | 495 |
| PRIME-2V.E.K.H.*5007 | 1.5 | 5.5 | 3.2 | 2" BSP | 1½" BSP | 750 | 960 | 495 |
| PRIME-2V.E.K.H.*5009 | 2.2 | 7.4 | 4.3 | 2" BSP | 1½" BSP | 815 | 970 | 495 |
| PRIME-2V.E.K.H.*9004 | 1.5 | 5.5 | 3.2 | 2½" BSP | 2" BSP | 720 | 1000 | 525 |
| PRIME-2V.E.K.H.*9005 | 2.2 | 7.4 | 4.1 | 2½" BSP | 2" BSP | 765 | 1000 | 525 |
| PRIME-2V.E.K.H.*9006 | 2.2 | 7.4 | 4.7 | 2½" BSP | 2" BSP | 795 | 1000 | 525 |
| PRIME-2V.E.K.H.*9008 | 3 | - | 6.9 | 2½" BSP | 2" BSP | 860 | 1010 | 525 |

*The Asterisk in the model number will be replaced with either a 1 or 3, depending on whether the unit is single-phase or three-phase
 **AV mounts add 30 mm to the height of the booster set.

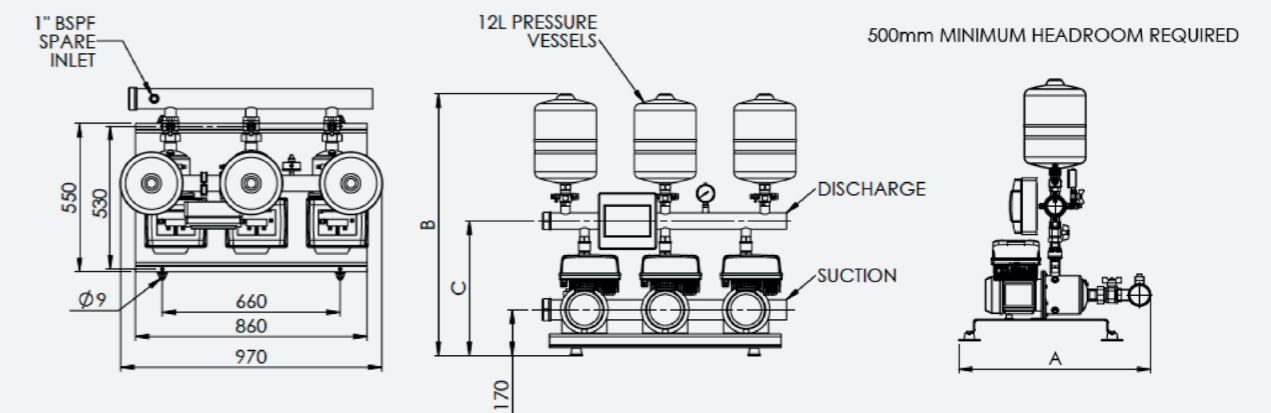


Flowboost Prime 3V.E.K.H Series

DRAWINGS AND DIMENSIONS

| Model no. | Motor power per pump (kW) | Full load current per pump (A) | | Suction DN1 | Discharge DN2 | Dimensions (mm) | | |
|----------------------|---------------------------|--------------------------------|---------|-------------|---------------|-----------------|--------------|----------------------|
| | | 1 phase | 3 phase | | | A (depth) | B** (height) | C (discharge centre) |
| PRIME-3V.E.K.H.*3005 | 0.75 | 2.7 | 1.6 | 2½" BSP | 2" BSP | 715 | 970 | 500 |
| PRIME-3V.E.K.H.*3007 | 1.1 | 3.8 | 2.1 | 2½" BSP | 2" BSP | 765 | 970 | 500 |
| PRIME-3V.E.K.H.*3009 | 1.5 | 5.5 | 3 | 2½" BSP | 2" BSP | 810 | 975 | 500 |
| PRIME-3V.E.K.H.*5004 | 1.1 | 3.8 | 2.1 | 2½" BSP | 2" BSP | 690 | 970 | 500 |
| PRIME-3V.E.K.H.*5005 | 1.1 | 3.8 | 2.2 | 2½" BSP | 2" BSP | 715 | 970 | 500 |
| PRIME-3V.E.K.H.*5006 | 1.5 | 5.5 | 2.9 | 2½" BSP | 2" BSP | 740 | 970 | 500 |
| PRIME-3V.E.K.H.*5007 | 1.5 | 5.5 | 3.2 | 2½" BSP | 2" BSP | 765 | 970 | 500 |
| PRIME-3V.E.K.H.*5009 | 2.2 | 7.4 | 4.3 | 2½" BSP | 2" BSP | 825 | 975 | 500 |
| PRIME-3V.E.K.H.*9004 | 1.5 | 5.5 | 3.2 | 3" BSP | 2½" BSP | 735 | 1010 | 530 |
| PRIME-3V.E.K.H.*9005 | 2.2 | 7.4 | 4.1 | 3" BSP | 2½" BSP | 780 | 1010 | 530 |
| PRIME-3V.E.K.H.*9006 | 2.2 | 7.4 | 4.7 | 3" BSP | 2½" BSP | 810 | 1010 | 530 |
| PRIME-3V.E.K.H.*9008 | 3 | - | 6.9 | 3" BSP | 2½" BSP | 830 | 1015 | 530 |

*The Asterisk in the model number will be replaced with either a 1 or 3, depending on whether the unit is single-phase or three-phase
 **AV mounts add 30 mm to the height of the booster set.



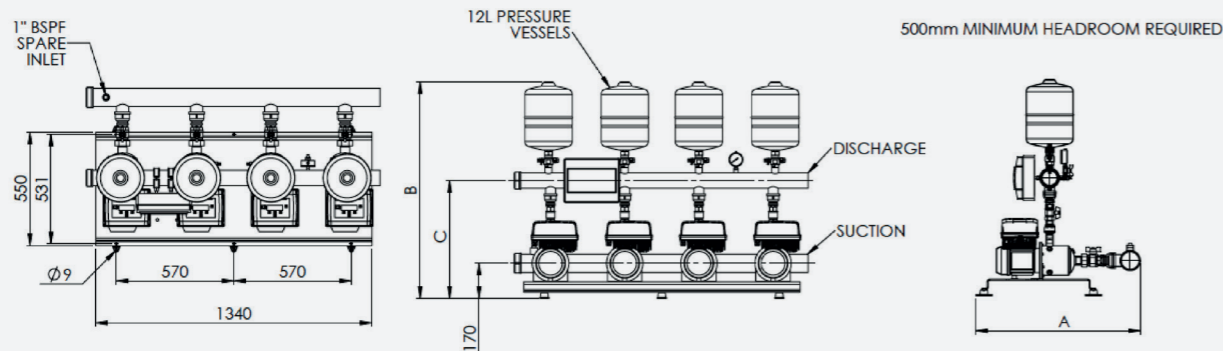
Flowboost Prime 4V.E.K.H Series

DRAWINGS AND DIMENSIONS

| Model no. | Motor power per pump (kW) | Full load current per pump (A) | | Suction DN1 | Discharge DN2 | Dimensions (mm) | | |
|----------------------|---------------------------|--------------------------------|---------|-------------|---------------|-----------------|--------------|----------------------|
| | | 1 phase | 3 phase | | | A (depth) | B** (height) | C (discharge centre) |
| PRIME-4V.E.K.H.*3005 | 0.75 | 2.7 | 1.6 | 3" BSP | 2½" BSP | 780 | 1050 | 570 |
| PRIME-4V.E.K.H.*3007 | 1.1 | 3.8 | 2.1 | 3" BSP | 2½" BSP | 850 | 1050 | 570 |
| PRIME-4V.E.K.H.*3009 | 1.5 | 5.5 | 3 | 3" BSP | 2½" BSP | 895 | 1055 | 570 |
| PRIME-4V.E.K.H.*5004 | 1.1 | 3.8 | 2.1 | 3" BSP | 2½" BSP | 775 | 1050 | 570 |
| PRIME-4V.E.K.H.*5005 | 1.1 | 3.8 | 2.2 | 3" BSP | 2½" BSP | 780 | 1050 | 570 |
| PRIME-4V.E.K.H.*5006 | 1.5 | 5.5 | 2.9 | 3" BSP | 2½" BSP | 825 | 1050 | 570 |
| PRIME-4V.E.K.H.*5007 | 1.5 | 5.5 | 3.2 | 3" BSP | 2½" BSP | 850 | 1050 | 570 |
| PRIME-4V.E.K.H.*5009 | 2.2 | 7.4 | 4.3 | 3" BSP | 2½" BSP | 910 | 1055 | 570 |
| PRIME-4V.E.K.H.*9004 | 1.5 | 5.5 | 3.2 | 3" BSP | 3" BSP | 815 | 1100 | 610 |
| PRIME-4V.E.K.H.*9005 | 2.2 | 7.4 | 4.1 | 3" BSP | 3" BSP | 860 | 1100 | 610 |
| PRIME-4V.E.K.H.*9006 | 2.2 | 7.4 | 4.7 | 3" BSP | 3" BSP | 890 | 1100 | 610 |
| PRIME-4V.E.K.H.*9008 | 3 | - | 6.9 | 3" BSP | 3" BSP | 955 | 1105 | 610 |

*The Asterisk in the model number will be replaced with either a 1 or 3, depending on whether the unit is single-phase or three-phase

**AV mounts add 30 mm to the height of the booster set.



Meet your precise project requirements with a bespoke solution

From the initial idea to the final product, we offer tailor made booster sets designed and built exclusively for your unique project needs.



To discuss our bespoke booster sets, call us now on **01452 300110** or email enquiries@dutypoint.com



**Let's talk about the
Flowboost Prime cold
water booster set**

01452 300110

ENQUIRIES@DUTYPOINT.COM

DUTYPOINT.COM