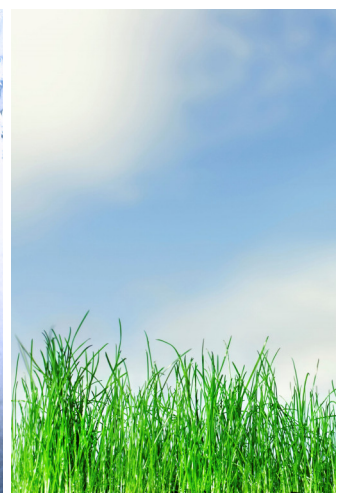
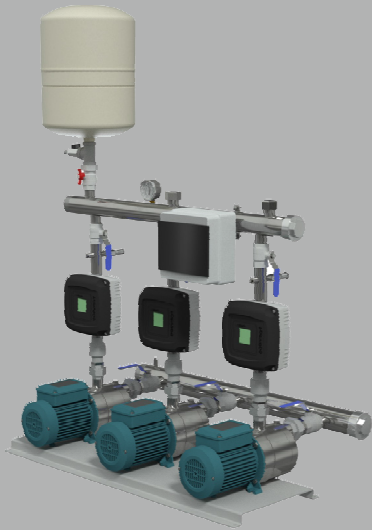


**Product Guide**

**COLD WATER SOLUTIONS**  
**HEVABOOST PRESSURE BOOSTING SETS**

**Inventive Engineering**



## HevaBoost HB Booster Sets



The Arbe HevaBoost HB units offer an economical solution to water pressure boosting with many options and sizes available. The unit comprises of between 1 and 3 pumps with each pump being fitted with a frequency inverter.

The simple controls on the inverters require only 3 parameters setting for operation:

- Maximum motor current
- Working frequency
- Working pressure

The booster set has 2 modes of operation:

**Constant Pressure Mode:** The booster set keeps the pressure constant when the quantity of water requested by the user changes

**Fixed Speed Mode:** The booster set works at a fixed speed that the user can choose according to the system need

The digital display on the inverters has various outputs available to display including:

- Pressure of the system
- Working frequency
- Absorbed current
- Alarms

The units are also supplied with isolating valves on the suction and discharge sides of the unit, check valves on the discharge side and stainless steel manifolds on 2 and 3 pump models.

The HB range has been designed to operate on 230v 1ph only, with pump sizes up to 2 kW, with sets available up to 10 litres/second and pressures up to 10 BarG

## HevaBoost HBCA Booster Sets



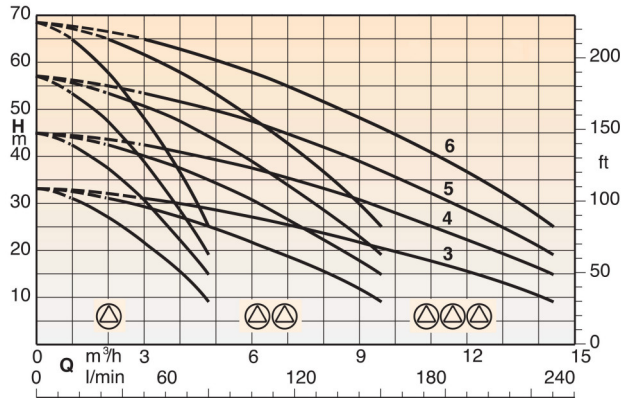
The Arbe HevaBoost HBCA units offer an economical solution to water pressure boosting with many options and sizes available. The unit comprises of between 1 and 6 pumps with each pump being fitted with a frequency inverter.

- LCD display with 6 button interface for quick and simple menu navigation
- Advanced settings are password protected
- Digital inputs for 2 float switches and remote on/off control
- Analog input for pressure transducer. 4-20mA or 0-10v can be selected
- 2 programmable digital alarm outputs for connection to BMS
- Digital output for remote parameter monitoring
- Protections include: Dry running / over-current / over heating / under and over voltage / short circuit on motor phase / electronic card over temperature / unbalanced phases / sensor error. All of which have their own error code displayed on the main screen
- Safety start feature restarts the pumps after a power failure at a user defined frequency for a user defined amount of time to protect from pressure surges. For example 30Hz for 5 minutes.
- Built in cyclic change over. iMAT automatically switches over duty pump after user defined length of time in constant operation.
- Maximum of 6 variable speed pumps can operate in parallel
- Operating frequency, current draw, input voltage and system pressure can be displayed on main screen for quick system diagnostic
- Last 10 error codes logged and can be viewed in chronological order
- Constant pressure, constant flow, constant temperature, proportional pressure and manual fixed speed modes.







The HBCA range has been designed to operate on 400v 3ph with pump sizes up to 11 kW, with sets available with up to 6 pumps in cascade



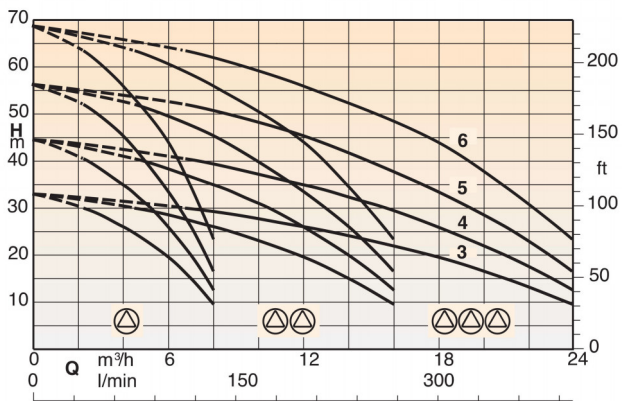
## HevaBoost HB Booster Sets









### HevaBoost HB-.H-2.. Series

<u>1 Pump:</u> 	<u>2 Pump:</u>  	<u>3 Pump:</u>   
HB-1H-203	HB-2H-203	HB-3H-203
HB-1H-204	HB-2H-204	HB-3H-204
HB-1H-205	HB-2H-205	HB-3H-205
HB-1H-206	HB-2H-206	HB-3H-206

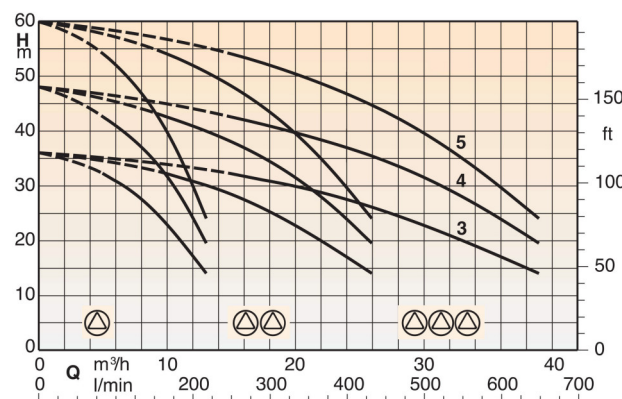
Use the curve to select either 1, 2 or 3 pump units and select the unit with curve to match required output









### HevaBoost HB-.H-4.. Series

<u>1 Pump:</u> 	<u>2 Pump:</u>  	<u>3 Pump:</u>   
HB-1H-403	HB-2H-403	HB-3H-403
HB-1H-404	HB-2H-404	HB-3H-404
HB-1H-405	HB-2H-405	HB-3H-405
HB-1H-406	HB-2H-406	HB-3H-406

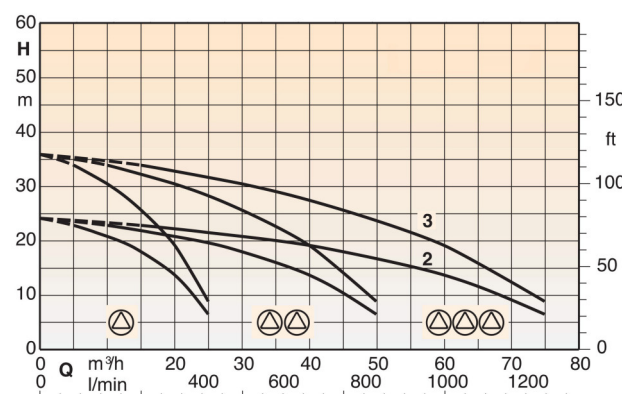
Use the curve to select either 1, 2 or 3 pump units and select the unit with curve to match required output









### HevaBoost HB-.H-8.. Series

<u>1 Pump:</u> 	<u>2 Pump:</u>  	<u>3 Pump:</u>   
HB-1H-803	HB-2H-803	HB-3H-803
HB-1H-804	HB-2H-804	HB-3H-804
HB-1H-805	HB-2H-805	HB-3H-805

Use the curve to select either 1, 2 or 3 pump units and select the unit with curve to match required output



### HevaBoost HB-.H-16.. Series

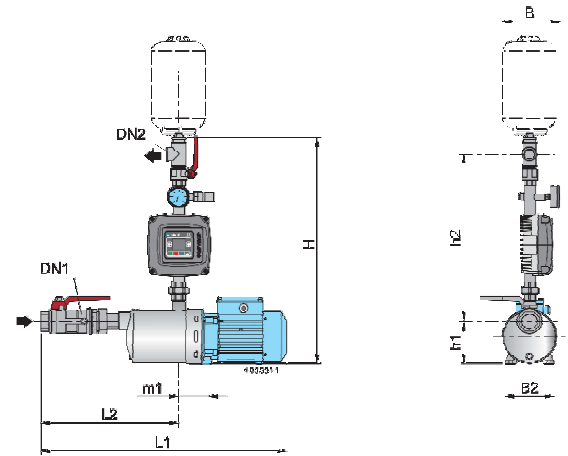
<u>1 Pump:</u> 	<u>2 Pump:</u>  	<u>3 Pump:</u>   
HB-1H-1602	HB-2H-1602	HB-3H-1602
HB-1H-1603	HB-2H-1603	HB-3H-1603

Use the curve to select either 1, 2 or 3 pump units and select the unit with curve to match required output

## HevaBoost HB Booster Sets

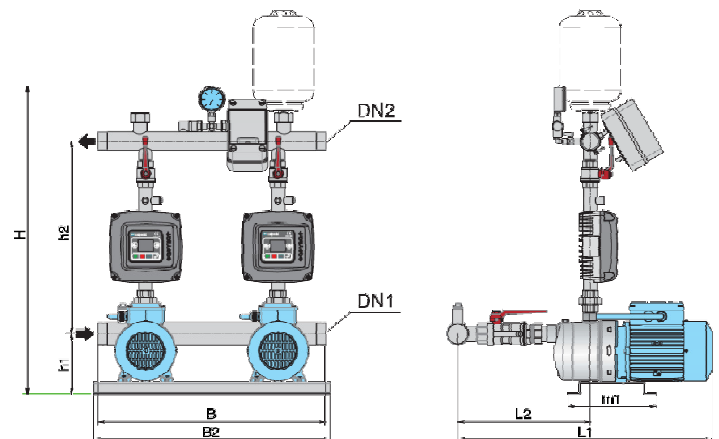


Unit	Connections		Dimensions mm							
	DN1	DN2	H	h1	h2	L1	L2	m1	B	B2
HB-1H-203	G 1¼	G 1	708	127	516	511	274	88	165	146
HB-1H-204	G 1¼	G 1	708	127	516	561	298	88	165	146
HB-1H-205	G 1¼	G 1	708	127	516	585	322	88	165	146
HB-1H-206	G 1¼	G 1	708	127	516	609	346	88	165	146
HB-1H-403	G 1¼	G 1	708	127	516	537	274	88	165	146
HB-1H-404	G 1¼	G 1	708	127	516	561	298	88	165	146
HB-1H-405	G 1¼	G 1	708	127	516	585	322	88	165	146
HB-1H-406	G 1¼	G 1	708	127	516	680	346	88	165	146
HB-1H-803	G 1½	G 1	708	127	516	657	323	88	165	146
HB-1H-804	G 1½	G 1	708	127	516	687	353	88	165	146
HB-1H-805	G 1½	G 1	708	127	516	717	383	88	165	146
HB-1H-1602	G 2	G 1½	750	117	560	752	404	101	165	146
HB-1H-1603	G 2	G 1½	750	117	560	752	404	101	165	146



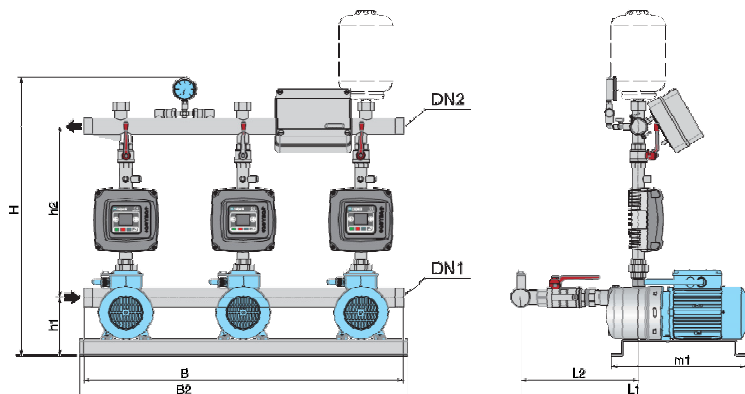
**HevaBoost HB-1H... Units**

Unit	Connections		Dimensions mm							
	DN1	DN2	H	h1	h2	L1	L2	m1	B	B2
HB-2H-203	G 2	G 1½	848	161	506	563	326	240	600	625
HB-2H-204	G 2	G 1½	848	161	506	613	350	240	600	625
HB-2H-205	G 2	G 1½	848	161	506	637	374	240	600	625
HB-2H-206	G 2	G 1½	848	161	506	661	398	240	600	625
HB-2H-403	G 2	G 1½	848	161	506	589	326	240	600	625
HB-2H-404	G 2	G 1½	848	161	506	613	350	240	600	625
HB-2H-405	G 2	G 1½	848	161	506	637	374	240	600	625
HB-2H-406	G 2	G 1½	848	161	506	732	398	240	600	625
HB-2H-803	G 2½	G 2	854	161	512	727	393	240	600	625
HB-2H-804	G 2½	G 2	854	161	512	757	423	240	600	625
HB-2H-805	G 2½	G 2	854	161	512	787	453	240	600	625
HB-2H-1602	G 3	G 2½	882	151	551	829	481	240	600	625
HB-2H-1603	G 3	G 2½	882	151	551	829	481	240	600	625



**HevaBoost HB-2H... Units**

Unit	Connections		Dimensions mm							
	DN1	DN2	H	h1	h2	L1	L2	m1	B	B2
HB-3H-203	G 2	G 1½	848	161	506	563	326	240	900	925
HB-3H-204	G 2	G 1½	848	161	506	613	350	240	900	925
HB-3H-205	G 2	G 1½	848	161	506	637	374	240	900	925
HB-3H-206	G 2	G 1½	848	161	506	661	398	240	900	925
HB-3H-403	G 2	G 1½	848	161	506	589	326	240	900	925
HB-3H-404	G 2	G 1½	848	161	506	613	350	240	900	925
HB-3H-405	G 2	G 1½	848	161	506	637	374	240	900	925
HB-3H-406	G 2	G 1½	848	161	506	732	398	240	900	925
HB-3H-803	G 2½	G 2	854	161	512	727	393	240	900	925
HB-3H-804	G 2½	G 2	854	161	512	757	423	240	900	925
HB-3H-805	G 2½	G 2	854	161	512	787	453	240	900	925
HB-3H-1602	G 3	G 2½	882	151	551	829	481	240	900	925
HB-3H-1603	G 3	G 2½	882	151	551	829	481	240	900	925



**HevaBoost HB-3H... Units**

## Welcome to Arbe Integrated Engineering

Arbe Integrated Engineering offer a range of products and services for the HVAC building services industry, ranging from bare heat exchangers and storage cylinders to fully packaged plantrooms and associated equipment. With over 20 years of design experience, our design and technical team can offer a complete solution for a wide range of project requirements.

### Seamless Integration:

With our next generation range of equipment, our products offer complete integration with renewable and future energies, ensuring all available energy is utilised, reducing fossil fuel usage. In addition, our HevaSys products offers a unique next generation range of equipment with integral BMS style controls that can be adapted to any installation and can provide a standalone management system for buildings where the heating and hot water generation is relatively small, such as a leisure centre or a school.

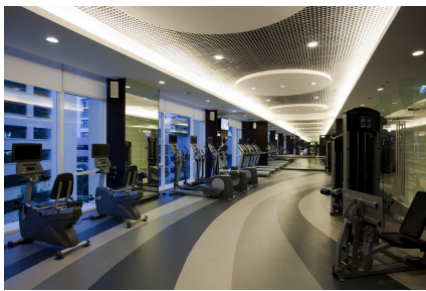
### Inventive Engineering:

In addition to our standard equipment, including heat exchangers, storage calorifiers and packaged solutions, we also design and manufacture bespoke equipment to end user or consultant specifications and we carry out extensive research and development to invent new products and enhance current designs.

### Application Solutions:

With our complete range of products, we have solutions to cover most applications. With our ability to carry out complete bespoke design, we have a solution for each and every project requirement. Our end users include:

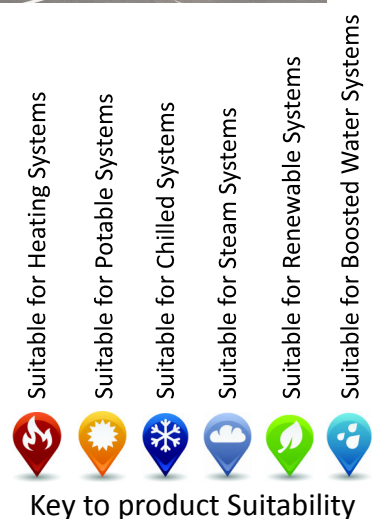
- Hotels
- Schools
- Universities
- Leisure Centres & Gyms
- Hospitals



### Products Include:

Calorifiers  
Indirect Cylinders  
Direct Cylinders  
Thermal Stores  
Pressure Vessels  
Plate Heat Exchangers  
Braze Heat Exchangers  
Shell & Tube Exchangers  
Heat Exchanger Packages

TwinHeat DHW/LTHW Systems  
Gas Fired Calorifiers  
Boilers & Associated Equipment  
Packaged Boiler Houses  
Packaged Plant Rooms  
Solar Energy Packages  
Heat Pumps  
Booster Sets & Pressurisation  
Bespoke Engineering Packages



Arbe Integrated Engineering Ltd  
Coal Lane  
Causeway Foot  
Halifax, HX2 9PG  
Tel 01422 646865, Fax 01422 500018  
mail@arbe.co.uk www.arbe.co.uk