IMPPUMPS®
Intelligent Motor Pumps
www.imp-pumps.com

75 YEARS





PRESSURE BOOSTER STATIONS

TECHNICAL DATA

THE GOLDEN GAZELLE
OF SLOVENIA
2023

IMPPUMPS®
Intelligent Motor Pumps

INDEX

PPT BL PUMPS	PAGE 5
PPT BWJ PUMPS	PAGE 6
MATERIALS	PAGE 7
CONTROL OPTIONS	PAGE 8
MODEL EXAMPLES	PAGE 9
PPT BL 2-X-PXX	PAGE 10
PPT BL 4-X-PXX	PAGE 12
PPT BL 8-X-PXX	PAGE 14
PPT BL 12-X-PXX	PAGE 16
PPT BL 16-X-PXX	PAGE 18
PPT BL 20-X-PXX	PAGE 20
PPT BL 32-X-PXX	PAGE 22
PPT BWJ 2-X-PXX	PAGE 24
PPT BWJ 4-X-PXX	PAGE 26
PPT BWJ 8-X-PXX	PAGE 28
PPT BWJ 16-X-PXX	PAGE 30

GENERAL INFORMATION

ALL PRODUCTS AND COMPONENTS ARE MANUFACTURED FROM ENVIRONMENTALLY FRIENDLY MATERIALS.

UPON DISPOSAL INTERNAL ENVIRONMENTAL REGULATION MUST BE CONSIDERED.

FURTHER INFORMATION ON ALL PUMPING PROGRAMS WITH TECHNICAL DATA ARE AVAILABLE ON WWW.IMP-PUMPS.COM

GENERAL SALES CONDITIONS AND TERMS OF PAYMENT – DEPENDING ON THE AGREEMENT WITH THE FIRM IMP PUMPS.

IMAGES IN CATALOGUE ARE FOR ILLUSTRATIVE PURPOSES ONLY.

TECHNICAL ADJUSTMENTS AND REVISIONS ARE NOT PERMITTED!











ABOUT US

Discover the essence of pumping excellence at IMP PUMPS, a high-tech Slovenian manufacturer. Our core expertise lies in the holistic process of designing, developing, manufacturing, distributing, and maintaining state-of-the-art pumps and pumping systems. Beyond our proprietary offerings, we forge strategic partnerships to provide integrated solutions that redefine industry benchmarks. Our impact extends globally, with over 96% of our meticulously crafted pumps reaching customers in more than 80 countries. Pioneering innovation is in our DNA, particularly evident in our groundbreaking NMT MINI world's most energy-efficient circulating pump. We proudly hold the ISO 9001:2015 quality certificate, a testament to our dedication to delivering products and services of the highest standards. Choose IMP PUMPS as your trusted partner for a future where pumping technology meets precision, every drop matters and every solution reflects our relentless pursuit of quality and innovation.

HISTORY

Established in 1947 under the IMP umbrella, IMP PUMPS charted its independent course post the late 1980s. Surviving economic shifts and the turbulent nineties, the company privatized successfully in 1997 and 1999. A transformative moment came in 2000 with restructuring and renaming as IMP PUMPS d.o.o. Slovenia's EU entry fueled intensive sales network development in the changing European market, directly and through key partners. This period saw significant investments in development, marketing, information technology, and e-commerce philosophy, positioning IMP PUMPS at the forefront of HVAC industry evolution.

PRESENT

IMP PUMPS spans global markets, serving Europe, North and South America, Asia, Africa, and Australia. Our focus on elevating pump efficiency is evident in the groundbreaking NMT pump series, utilizing permanent magnet technology for superior efficiency.

As one of the pioneers in HVAC industry, we're among the select European manufacturers introducing a new era of pumps with electronically controlled wet running motors. This innovation places IMP PUMPS at the forefront of Europe's technological elite. Choose us for a future where efficiency meets global impact.

IMP PUMPS has been awarded the prestigious Golden Gazelle of Slovenia for the year 2023. The award for best and fastest-growing Slovenian company, a testament to our dedication to excellence and innovation.

FUTURE

At IMP PUMPS, we have a global team that understands the impact of our role in development and the environment. We are committed to energy efficiency and our products prioritize the future. We continuously innovate to create cost-effective pumps and intelligent solutions.

Our goal is to expand globally and secure a top position among Europe's circulator pump manufacturers. We work by our motto, "The honest product for the honest price," and ensure excellent quality at customer-friendly prices. We apply the latest technologies and are dedicated to providing faster service to our customers.

Choose IMP PUMPS for a future defined by quality, partnership, fast service and innovation.

Product overview

At IMP PUMPS, we specialize in the production of top-quality pumps that are specifically designed for HVAC applications. We offer a wide range of pump styles to suit your needs, including multiple options of flanged and threaded connections. Pumps can be designed as either single or double motor models. Furthermore, we provide you with the flexibility of choosing the hydraulic casing material including options such as: stainless steel, bronze, or cast iron. All of our cast iron hydraulics come with a highly durable cataphoresis coating that ensures long-lasting performance and reliability.

Wet running circulating pumps



NMT (one of the most energy efficient circulation pump families in the world)



SAN - for sanitary water



GHN (3-speed pumps)

Dry running circulating pump



CL, ECL, CV, PV (in-line, with frequency converter)



BL, BWJ (multistage)



PPT BL (pressure boosting unit)



PPT BL - PRESSURE BOOSTER STATIONS WITH VERTICAL PUMPS

PPT BL 2 - 6 - P1V P2F

- P2F — No. of directly regulated vertical pumps
- P1V — No. of frequency regulated pumps
- 6 — Number of impellers
- 2 — Rated pump volumetric flow
- BL — Pump type
- PPT — Pressure booster set



Conformity with standards and regulations:

- **EN1717:2001**

Protection against pollution of potable water in water installations and general requirements of devices to prevent pollution by backflow

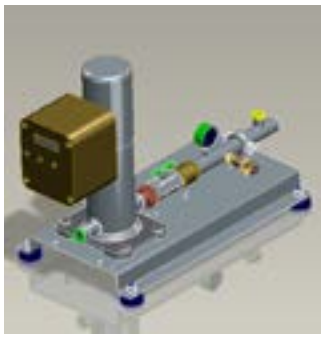
- **EN 806-1:2001**

Specifications for installations inside buildings conveying water for human consumption

Technical specifications	
Protection class	IP55
Insulation class	N/F
Motor protection	Internal thermal protection
Ambient temperature	0 - 40°C
Ambient relative humidity	<95%
Liquid medium	Drinking water, pH: 5 to 8
Max. operating pressure	16 bar(g)
Operating temperature	0 - 120°C

VARIATIONS:

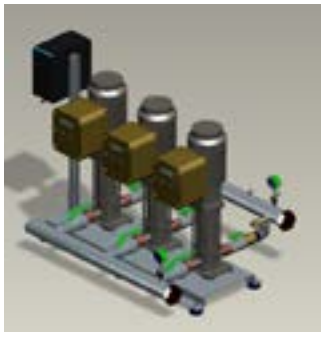
PPT BL X-X-P1X



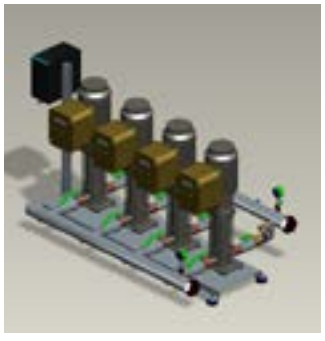
PPT BL X-X-P2X



PPT BL X-X-P3X



PPT BL X-X-P4X



USAGE:

- Sanitary water
- Maintaining and increasing the system pressure
- Irrigation systems
- Residential buildings
- Health facilities
- Administrative buildings
- Industrial buildings
- Hotels
- & more

PPT BWJ - PRESSURE BOOSTER STATIONS WITH HORIZONTAL PUMPS

PPT BWJ 2 - 6 - P1V P2F

- PPT — Pressure booster set
- BWJ — Pump type
- 2 — Rated pump volumetric flow
- 6 — Number of impellers
- P1V — No. of frequency regulated pumps
- P2F — No. of directly regulated horizontal pumps



Conformity with standards and regulations:

- **EN1717:2001**

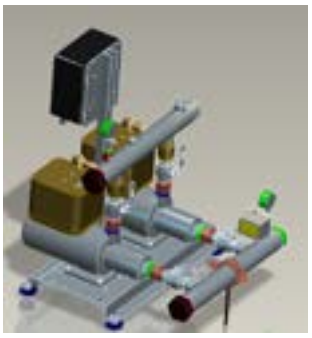
Protection against pollution of potable water in water installations and general requirements of devices to prevent pollution by backflow

- **EN 806-1:2001**

Specifications for installations inside buildings conveying water for human consumption

Technical specifications	
Protection class	IP54
Insulation class	N
Motor protection	Internal thermal protection
Ambient temperature	0 - 40°C
Ambient relative humidity	<95%
Liquid medium	Drinking water, pH: 6,5 to 8
Max. operating pressure	16 bar(g)
Operating temperature	0 - 120°C







USAGE:

- Sanitary water
- Maintaining and increasing the system pressure
- Irrigation systems
- Residential buildings
- Health facilities
- Administrative buildings
- Industrial buildings
- Hotels
- & more

PPT BL/BWJ- materials

Materials	
Pump hydraulic and impeller parts	Stainless steel EN 1.4301 / AISI 304
Manifolds	Stainless steel EN 1.4301 / AISI 304
Valves	Stainless steel EN 1.4301 / AISI 304
Fittings	Stainless steel EN 1.4301 / AISI 304
Pressure transducer	Stainless steel EN 1.4301 / AISI 304, Al2O3, Viton
Base plate	Zinc plated steel
Electric panel stand	Zinc plated steel

PPT BL/BWJ - control options

PxV - Variable Speed Drive

Features (PxV Variable Speed Drive)	
Delivery pressure setting	Delivery pressure set on master pump
Fault monitoring	High delivery pressure, low delivery pressure, dry run, transducer fault
Switchover	Active pump switchover interval
Fault relay output	NO 5A/NC 3A
Fault shift	If master fails, first auxiliary becomes master
Pressure transducer	0...16 bar, 4...20 mA Redundancy: Master pump and first auxiliary pump
Dry run protection	Pressure switch at suction manifold



PxF - Direct Starting Electronic Control

Features (PxF Direct Starting Electronic Control)	
Delivery pressure setting	Delivery pressure set on control panel
Fault monitoring	Dry run, low delivery pressure, minimum and maximum current protection for each motor, lack and sequence of phases protection, minimum and maximum voltage protection
Switchover	Active pump switchover interval
Fault relay output	NO/NC 5A
Motor failure switchover	Automatic switch to next pump
Pressure transducer	0...16 bar, 4...20 mA
Dry run protection	Pressure switch at suction manifold



PPT BL model examples:



PPT BL P1F



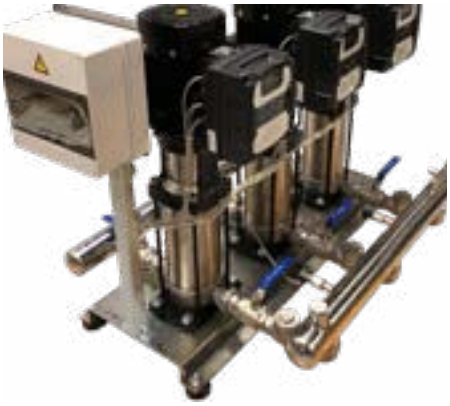
PPT BL P2F



PPT BL P2V



PPT BL P3F



PPT BL P3V



PPT BL P2V-V

PPT BWJ model examples:



PPT BWJ P2V

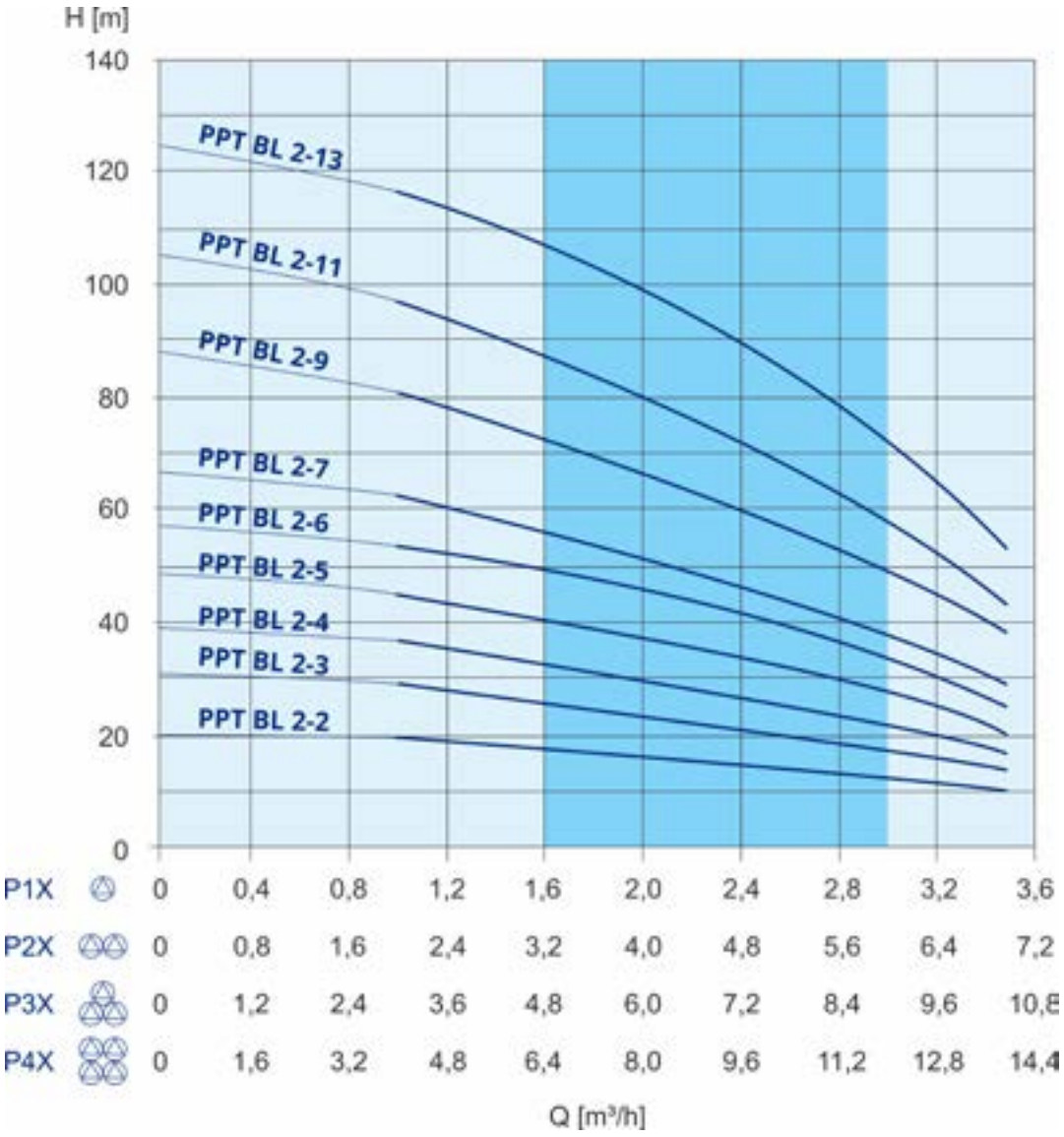
PPT BL 2-X-PXX

Pressure boosting units based on BL 2 pumps

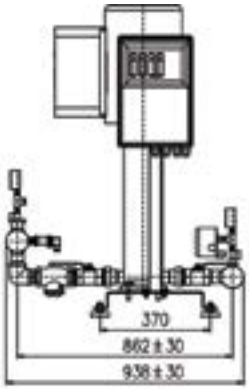
Technical specifications	
Power supply	3~ 400 V ±15%
Frequency	47-63 [Hz]
Declared protection	IP55
Fluid	Water, pH 5÷8
Fluid temperature	0÷120 [°C]
Insulation class	N
DN	65 [mm]
Max. pressure	16 [bar]
Ambient temperature	up to 40 [°C]

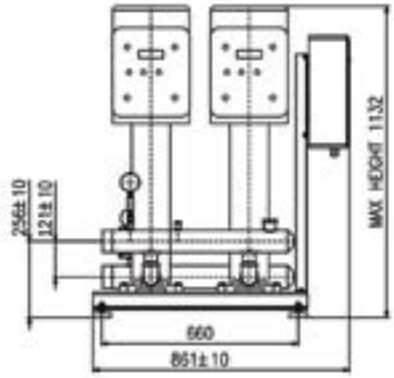
Electrical specifications		
Pump	Power per pump [kW]	Power per pump [HP]
BL 2-2	0,37	0,5
BL 2-3	0,37	0,5
BL 2-4	0,55	0,75
BL 2-5	0,55	0,75
BL 2-6	0,75	1
BL 2-7	0,75	1
BL 2-9	1,1	1,5
BL 2-11	1,1	1,5
BL 2-13	1,5	2

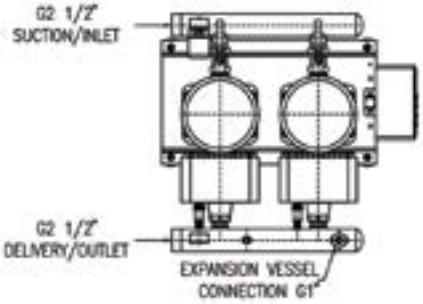
Performance curves for PPT BL 2-X-PXX

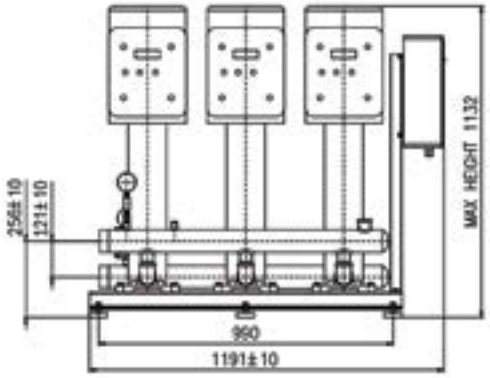


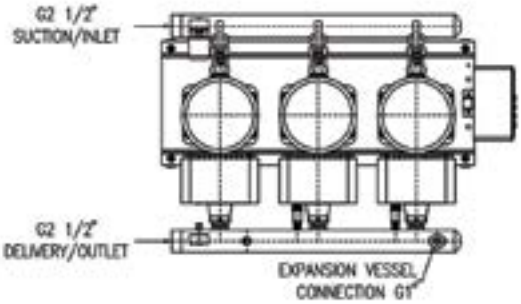
Dimensions

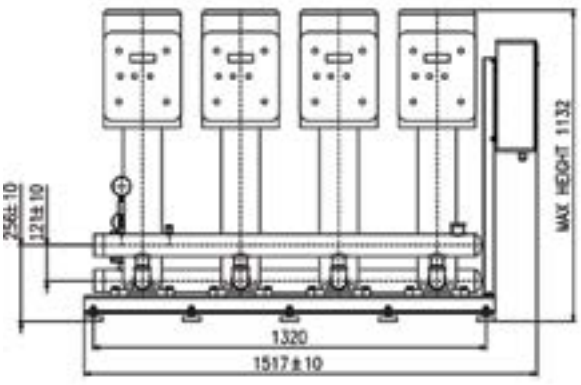

370
862 ± 30
938 ± 30

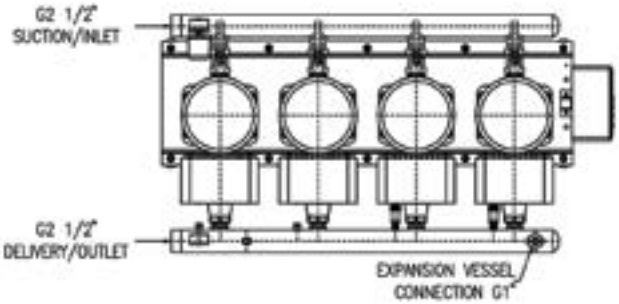

MAX HEIGHT 1132
256± 10
121± 10
660
861± 10


G2 1/2"
SUCTION/INLET
G2 1/2"
DELIVERY/OUTLET
EXPANSION VESSEL
CONNECTION G1"


MAX HEIGHT 1132
256± 10
121± 10
960
1191± 10


G2 1/2"
SUCTION/INLET
G2 1/2"
DELIVERY/OUTLET
EXPANSION VESSEL
CONNECTION G1"


MAX HEIGHT 1132
256± 10
121± 10
1320
1517± 10


G2 1/2"
SUCTION/INLET
G2 1/2"
DELIVERY/OUTLET
EXPANSION VESSEL
CONNECTION G1"

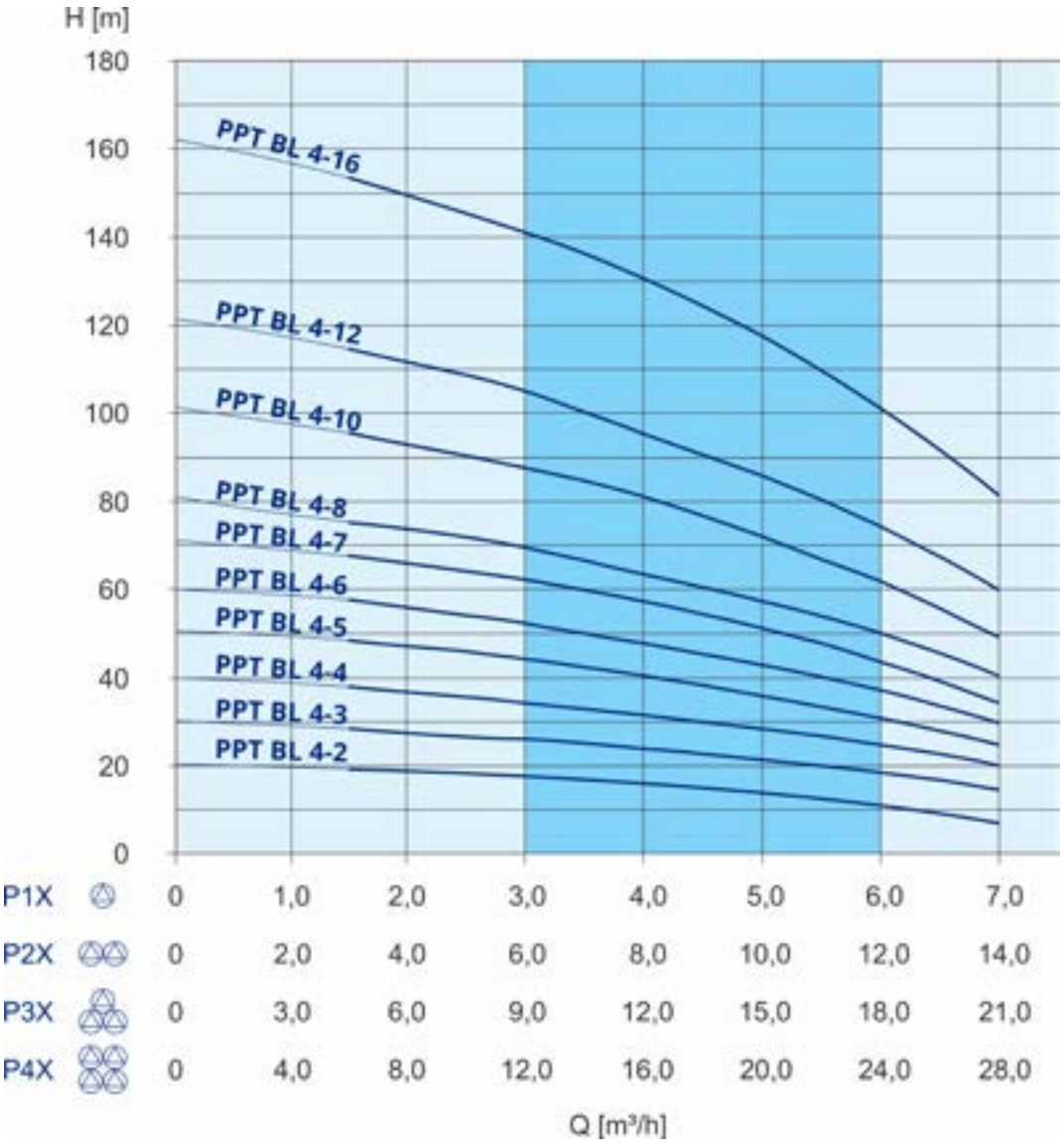
PPT BL 4-X-PXX

Pressure boosting units based on BL 4 pumps

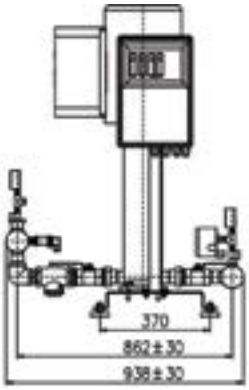
Technical specifications	
Power supply	3~ 400 V ±15%
Frequency	47-63 [Hz]
Declared protection	IP55
Fluid	Water, pH 5÷8
Fluid temperature	0÷120 [°C]
Insulation class	N
DN	65 [mm]
Max. pressure	16 [bar]
Ambient temperature	up to 40 [°C]

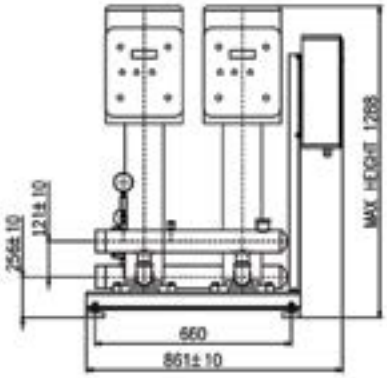
Electrical specifications		
Pump	Power per pump [kW]	Power per pump [HP]
BL 4-2	0,37	0,5
BL 4-3	0,55	0,75
BL 4-4	0,75	1
BL 4-5	1,1	1,5
BL 4-6	1,1	1,5
BL 4-7	1,5	2
BL 4-8	1,5	2
BL 4-10	2,2	3
BL 4-12	2,2	3
BL 4-16	3	4

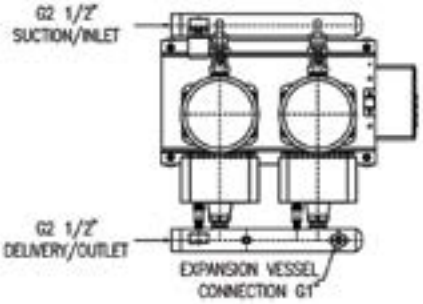
Performance curves for PPT BL 4-X-PXX

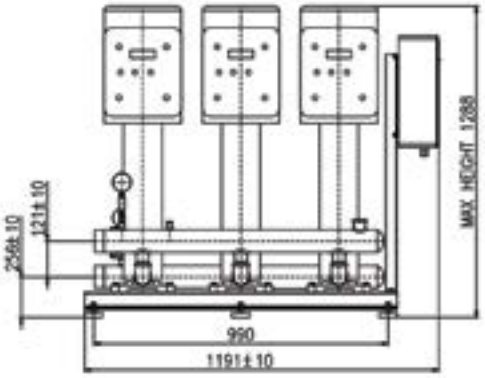


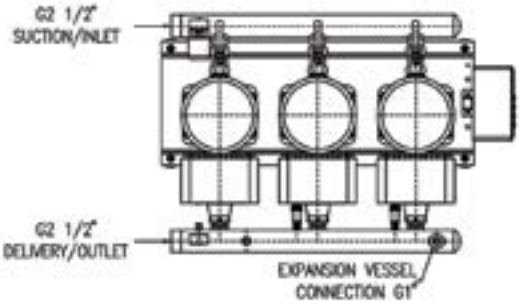
Dimensions

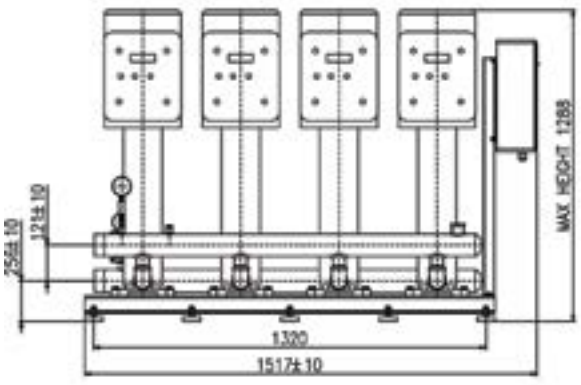

370
862±30
938±30

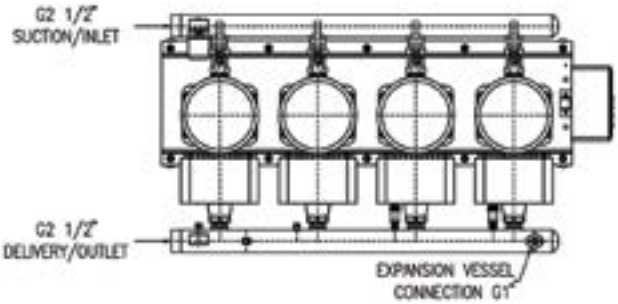

MAX. HEIGHT 1288
121±10
256±10
660
861±10


G2 1/2"
SUCTION/INLET
G2 1/2"
DELIVERY/OUTLET
EXPANSION VESSEL
CONNECTION G1"


MAX. HEIGHT 1288
121±10
256±10
990
1191±10


G2 1/2"
SUCTION/INLET
G2 1/2"
DELIVERY/OUTLET
EXPANSION VESSEL
CONNECTION G1"


MAX. HEIGHT 1288
121±10
256±10
1320
1517±10


G2 1/2"
SUCTION/INLET
G2 1/2"
DELIVERY/OUTLET
EXPANSION VESSEL
CONNECTION G1"

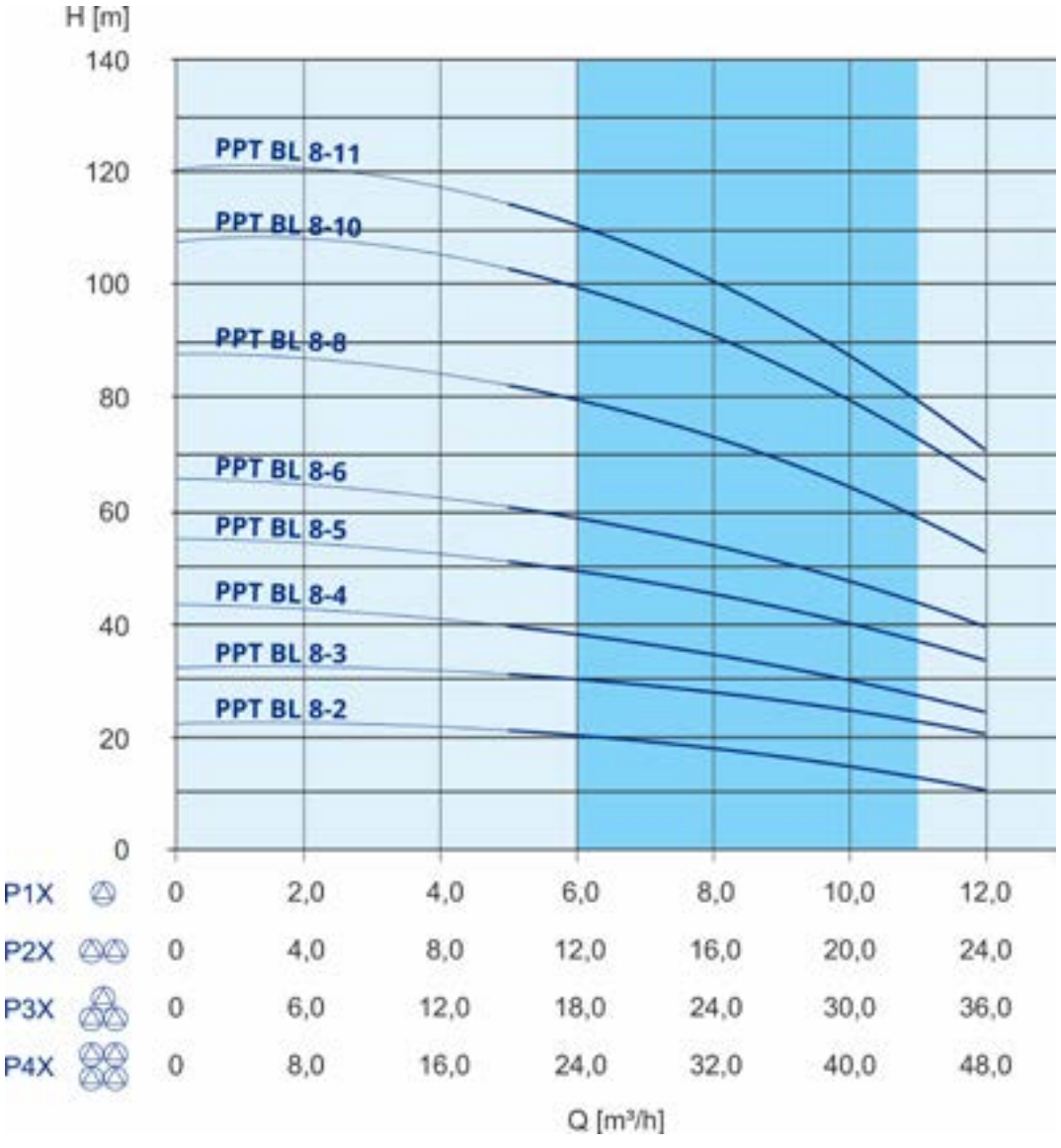
PPT BL 8-X-PXX

Pressure boosting units based on BL 8 pumps

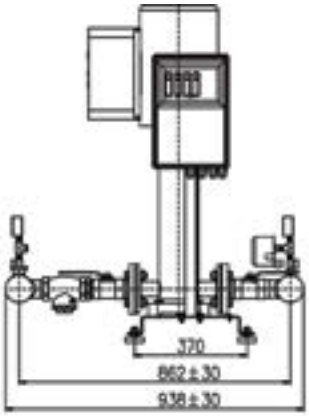
Technical specifications	
Power supply	3~ 400 V ±15%
Frequency	47-63 [Hz]
Declared protection	IP55
Fluid	Water, pH 5÷8
Fluid temperature	0÷120 [°C]
Insulation class	N
DN	65 [mm]
Max. pressure	16 [bar]
Ambient temperature	up to 40 [°C]

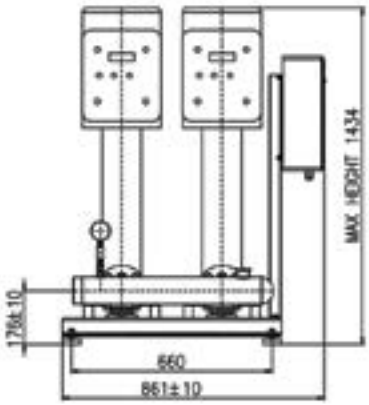
Electrical specifications		
Pump	Power per pump [kW]	Power per pump [HP]
BL 8-2	0,75	1
BL 8-3	1,1	1,5
BL 8-4	1,5	2
BL 8-5	2,2	3
BL 8-6	2,2	3
BL 8-8	3	4
BL 8-10	4	5,5
BL 8-11	4	5,5

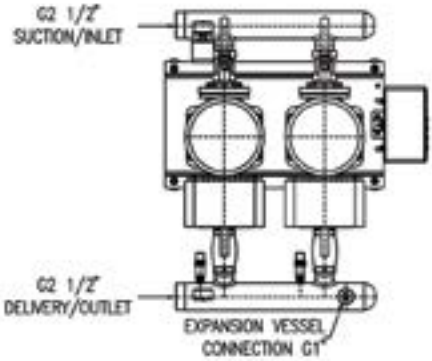
Performance curves for PPT BL 8-X-PXX

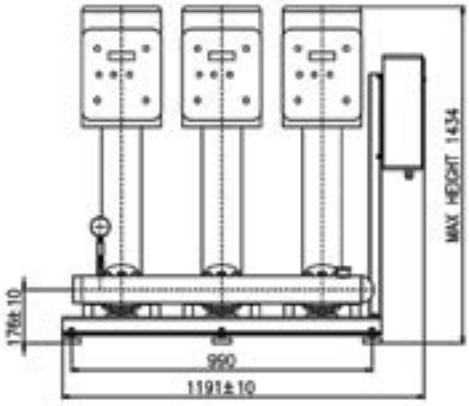


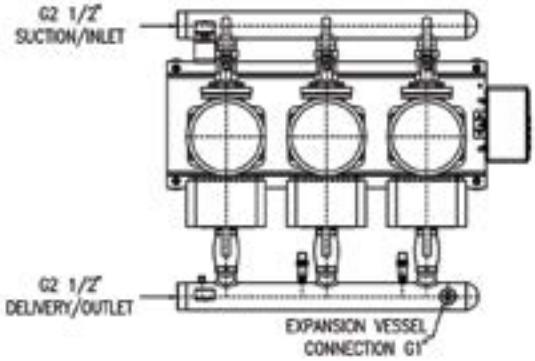
Dimensions

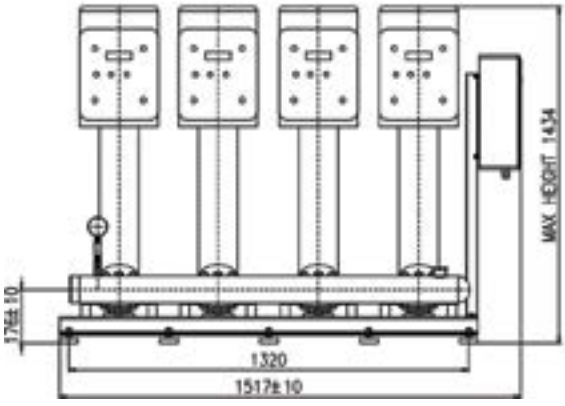

320
862±30
938±30

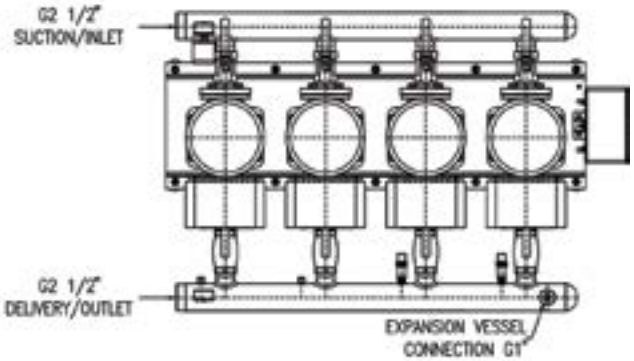

MAX. HEIGHT 1434
126±10
660
861±10


G2 1/2"
SUCTION/INLET
G2 1/2"
DELIVERY/OUTLET
EXPANSION VESSEL
CONNECTION G1"


MAX. HEIGHT 1434
176±10
990
1191±10


G2 1/2"
SUCTION/INLET
G2 1/2"
DELIVERY/OUTLET
EXPANSION VESSEL
CONNECTION G1"


MAX. HEIGHT 1434
176±10
1320
1517±10


G2 1/2"
SUCTION/INLET
G2 1/2"
DELIVERY/OUTLET
EXPANSION VESSEL
CONNECTION G1"

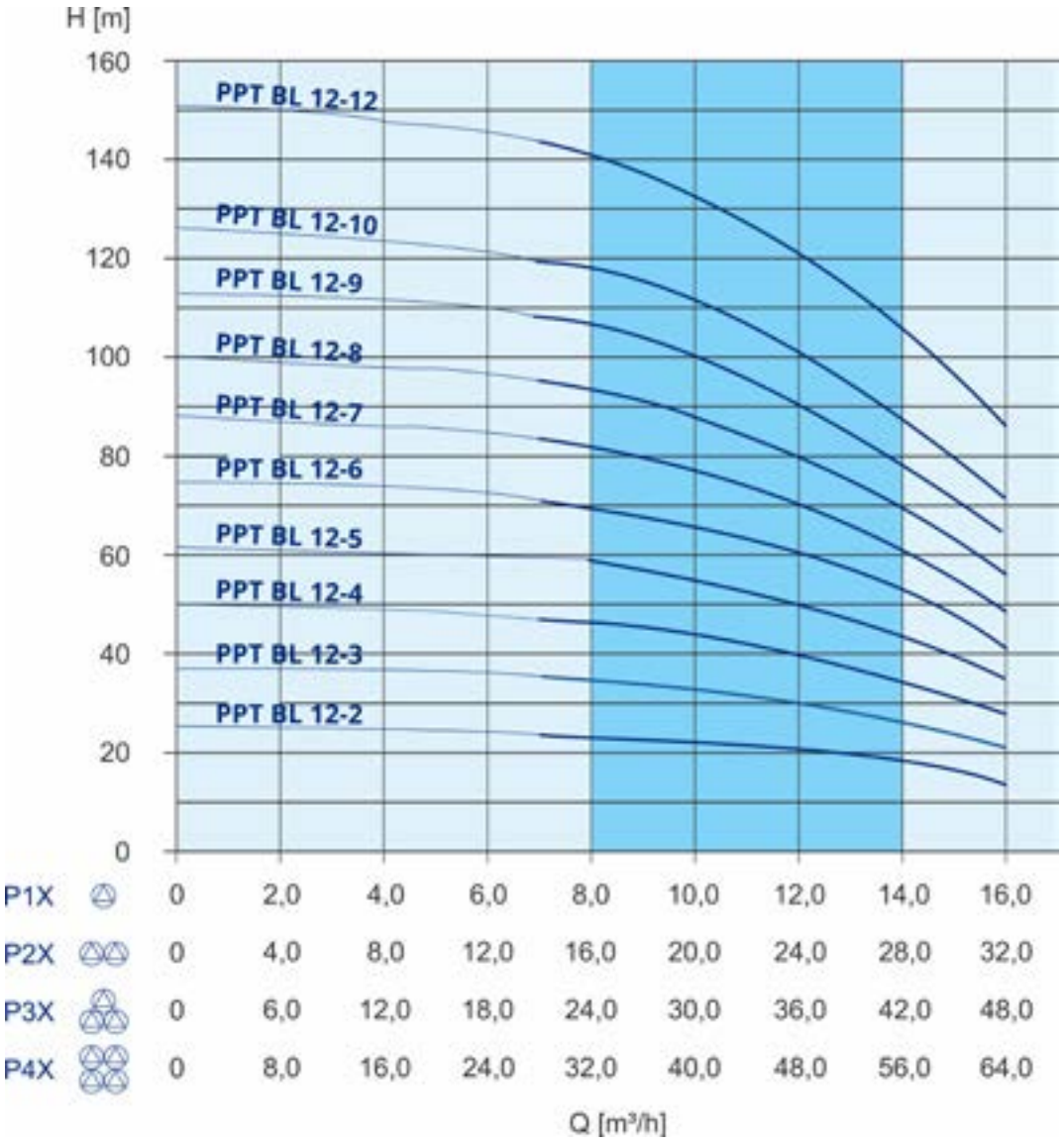
PPT BL 12-X-PXX

Pressure boosting units based on BL 12 pumps

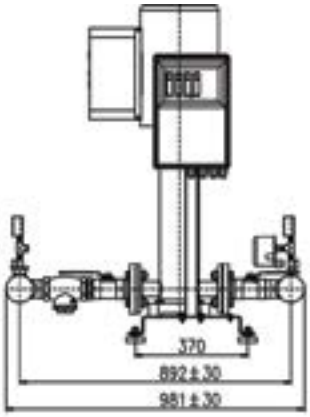
Technical specifications	
Power supply	3~ 400 V ±15%
Frequency	47-63 [Hz]
Declared protection	IP55
Fluid	Water, pH 5÷8
Fluid temperature	0÷120 [°C]
Insulation class	F
DN	80 [mm]
Max. pressure	16 [bar]
Ambient temperature	up to 40 [°C]

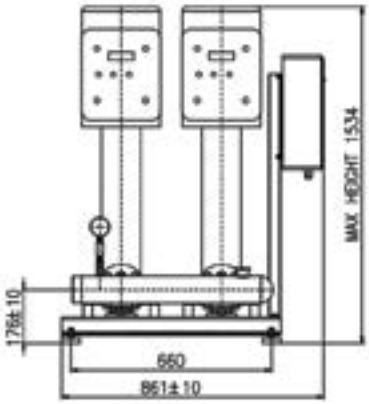
Electrical specifications		
Pump	Power per pump [kW]	Power per pump [HP]
BL 12-2	1,5	2
BL 12-3	2,2	3
BL 12-4	3	4
BL 12-5	3	4
BL 12-6	4	5,5
BL 12-7	5,5	7,5
BL 12-8	5,5	7,5
BL 12-9	5,5	7,5
BL 12-10	7,5	10
BL 12-12	7,5	10

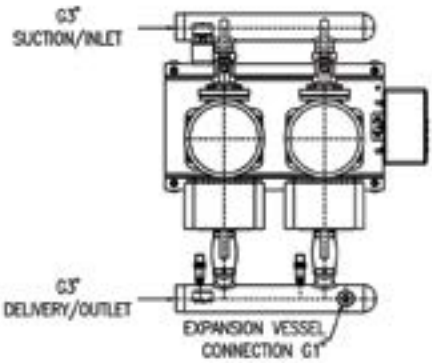
Performance curves for PPT BL 12-X-PXX

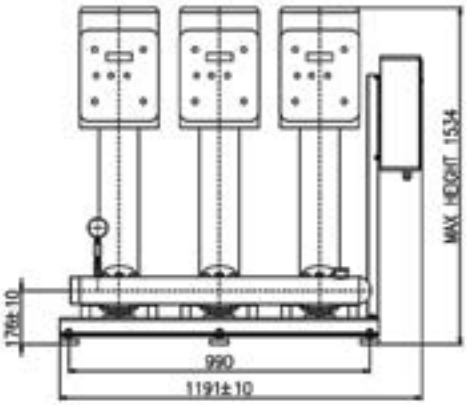


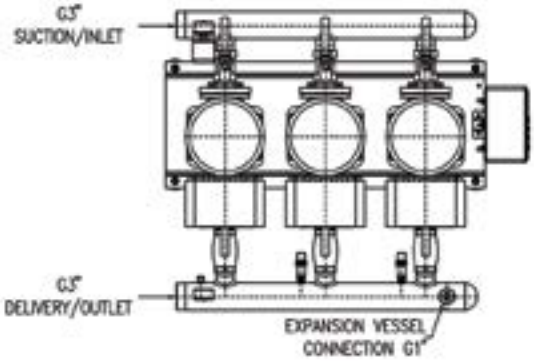
Dimensions

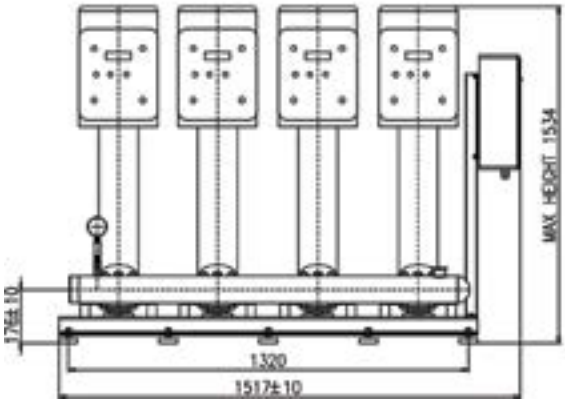

320
892±30
981±30

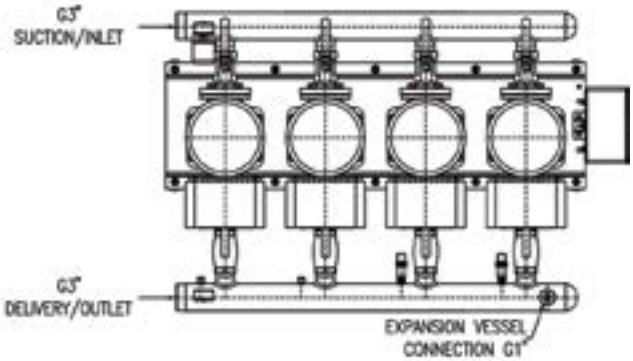

MAX. HEIGHT 1534
176±10
660
861±10


G3"
SUCTION/INLET
G3"
DELIVERY/OUTLET
EXPANSION VESSEL
CONNECTION G1"


MAX. HEIGHT 1534
176±10
990
1191±10


G3"
SUCTION/INLET
G3"
DELIVERY/OUTLET
EXPANSION VESSEL
CONNECTION G1"


MAX. HEIGHT 1534
176±10
1320
1517±10


G3"
SUCTION/INLET
G3"
DELIVERY/OUTLET
EXPANSION VESSEL
CONNECTION G1"

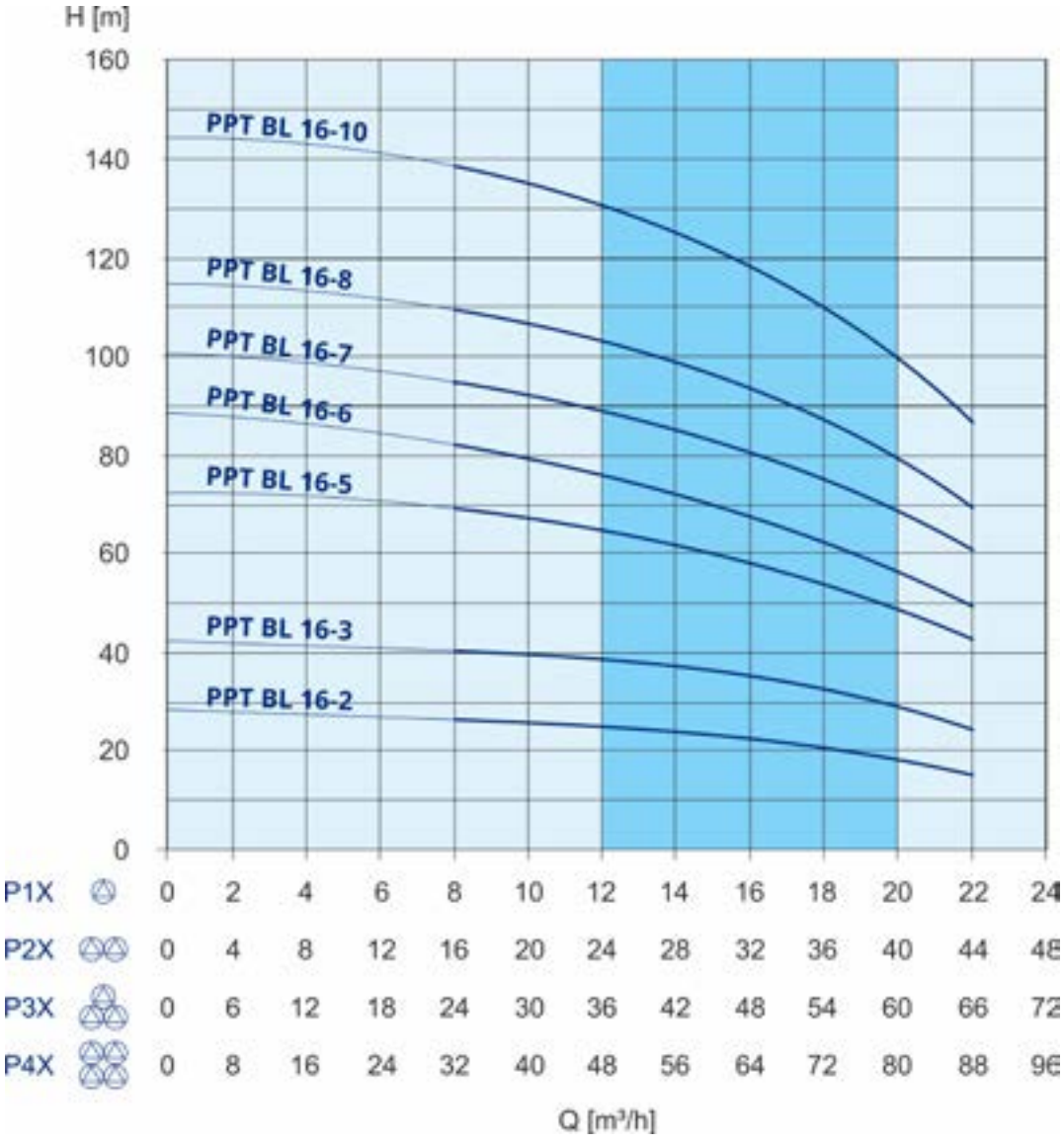
PPT BL 16-X-PXX

Pressure boosting units based on BL 16 pumps

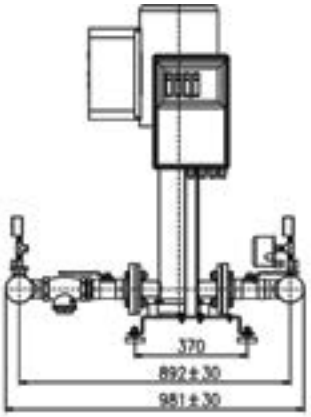
Technical specifications	
Power supply	3~ 400 V ±15%
Frequency	47-63 [Hz]
Declared protection	IP55
Fluid	Water, pH 5÷8
Fluid temperature	0÷120 [°C]
Insulation class	F
DN	80 [mm]
Max. pressure	16 [bar]
Ambient temperature	up to 40 [°C]

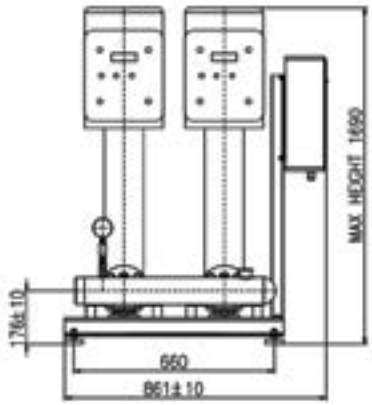
Electrical specifications		
Pump	Power per pump [kW]	Power per pump [HP]
BL 16-2	2,2	3
BL 16-3	3	4
BL 16-5	5,5	7,5
BL 16-6	5,5	7,5
BL 16-7	7,5	10
BL 16-8	7,5	10
BL 16-10	11	15

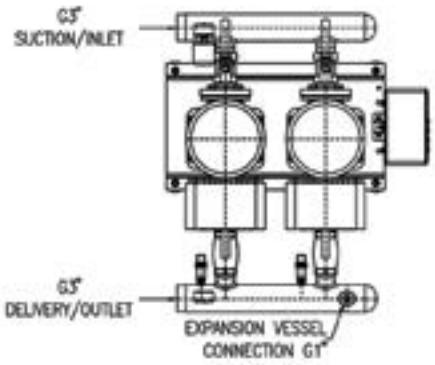
Performance curves for PPT BL 16-X-PXX

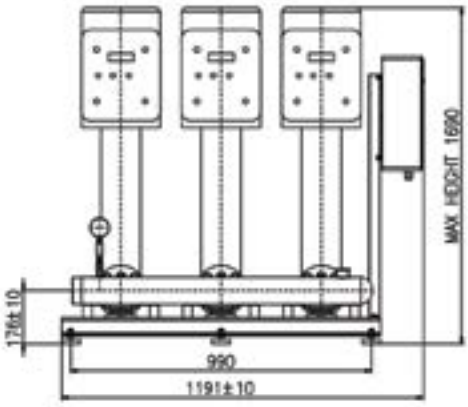


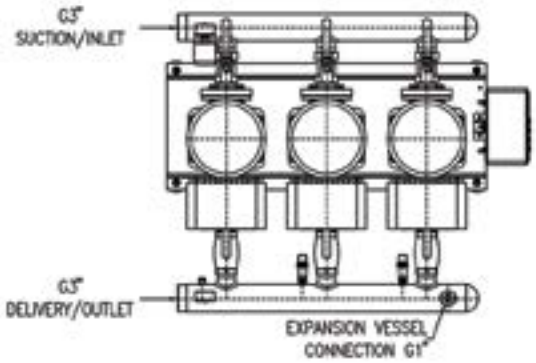
Dimensions

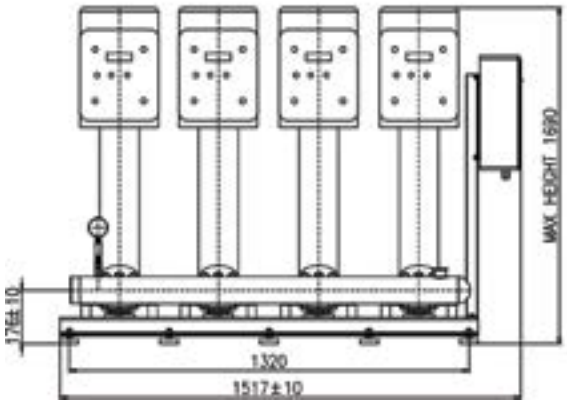

370
892±30
981±30

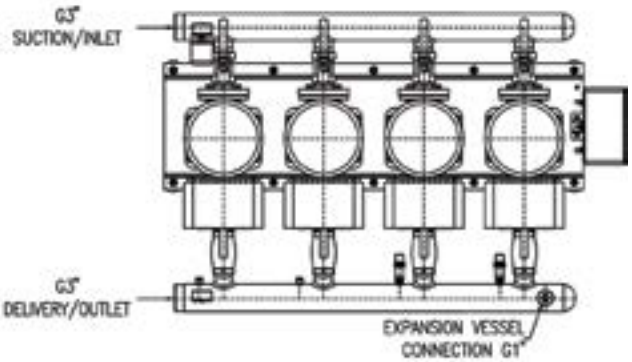

MAX. HEIGHT 1690
176±10
660
861±10


G3"
SUCTION/INLET
G3"
DELIVERY/OUTLET
EXPANSION VESSEL
CONNECTION G1"


MAX. HEIGHT 1690
176±10
990
1191±10


G3"
SUCTION/INLET
G3"
DELIVERY/OUTLET
EXPANSION VESSEL
CONNECTION G1"


MAX. HEIGHT 1690
176±10
1320
1517±10


G3"
SUCTION/INLET
G3"
DELIVERY/OUTLET
EXPANSION VESSEL
CONNECTION G1"

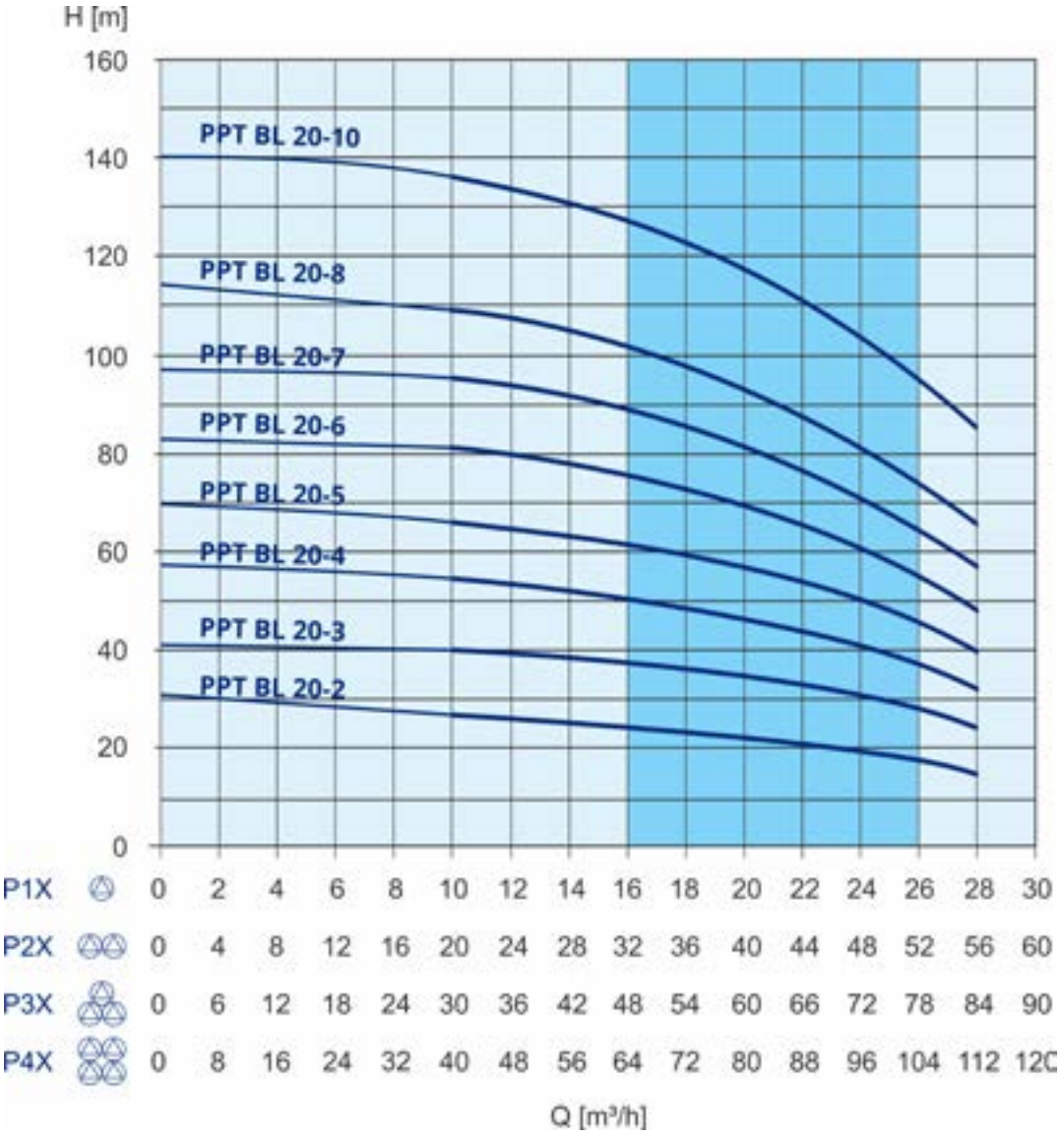
PPT BL 20-X-PXX

Pressure boosting units based on BL 20 pumps

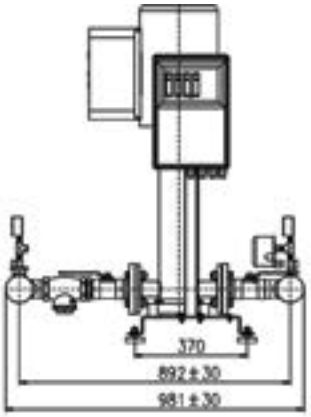
Technical specifications	
Power supply	3~ 400 V ±15%
Frequency	47-63 [Hz]
Declared protection	IP55
Fluid	Water, pH 5÷8
Fluid temperature	0÷120 [°C]
Insulation class	F
DN	80 [mm]
Max. pressure	16 [bar]
Ambient temperature	up to 40 [°C]

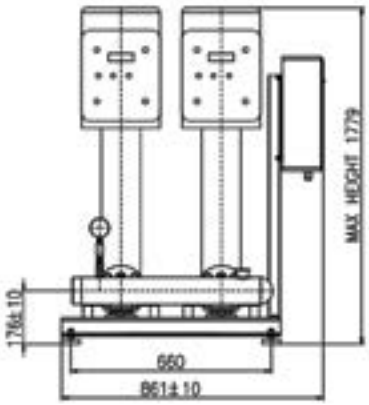
Electrical specifications		
Pump	Power per pump [kW]	Power per pump [HP]
BL 20-2	2,2	3
BL 20-3	4	5,5
BL 20-4	5,5	7,5
BL 20-5	5,5	7,5
BL 20-6	7,5	10
BL 20-7	7,5	10
BL 20-8	11	15
BL 20-10	11	15

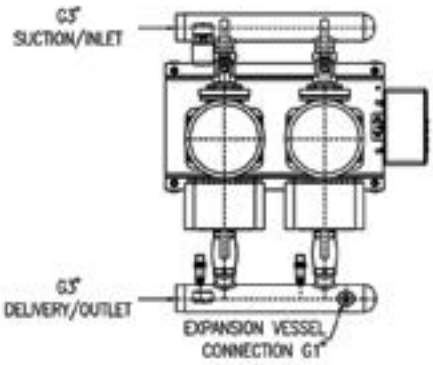
Performance curves for PPT BL 20-X-PXX

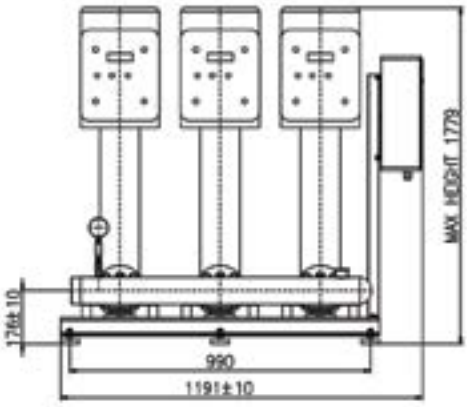


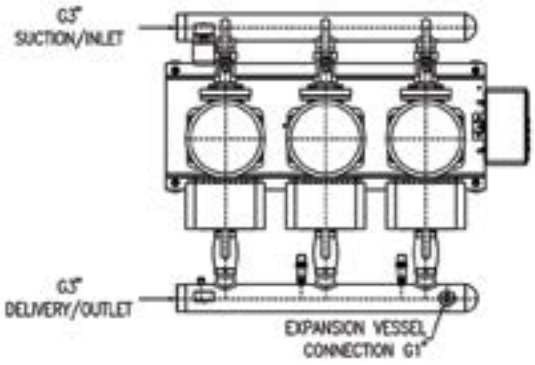
Dimensions

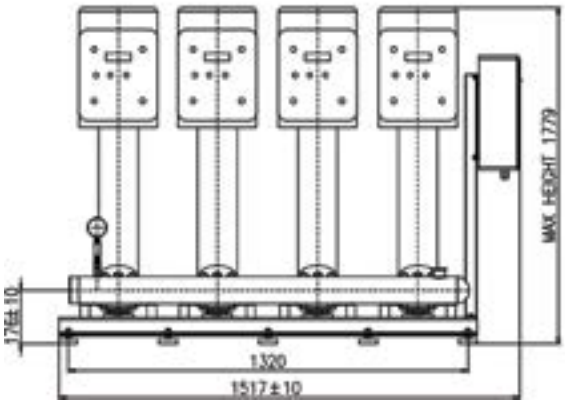

370
892±30
981±30

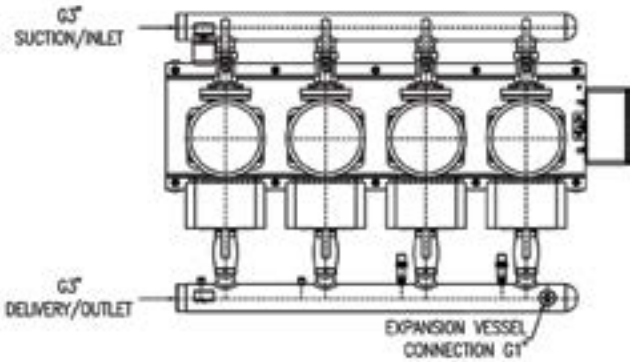

MAX HEIGHT 1779
176±10
660
861±10


G3"
SUCTION/INLET
G3"
DELIVERY/OUTLET
EXPANSION VESSEL
CONNECTION G1"


MAX HEIGHT 1779
176±10
990
1191±10


G3"
SUCTION/INLET
G3"
DELIVERY/OUTLET
EXPANSION VESSEL
CONNECTION G1"


MAX HEIGHT 1779
176±10
1320
1517±10


G3"
SUCTION/INLET
G3"
DELIVERY/OUTLET
EXPANSION VESSEL
CONNECTION G1"

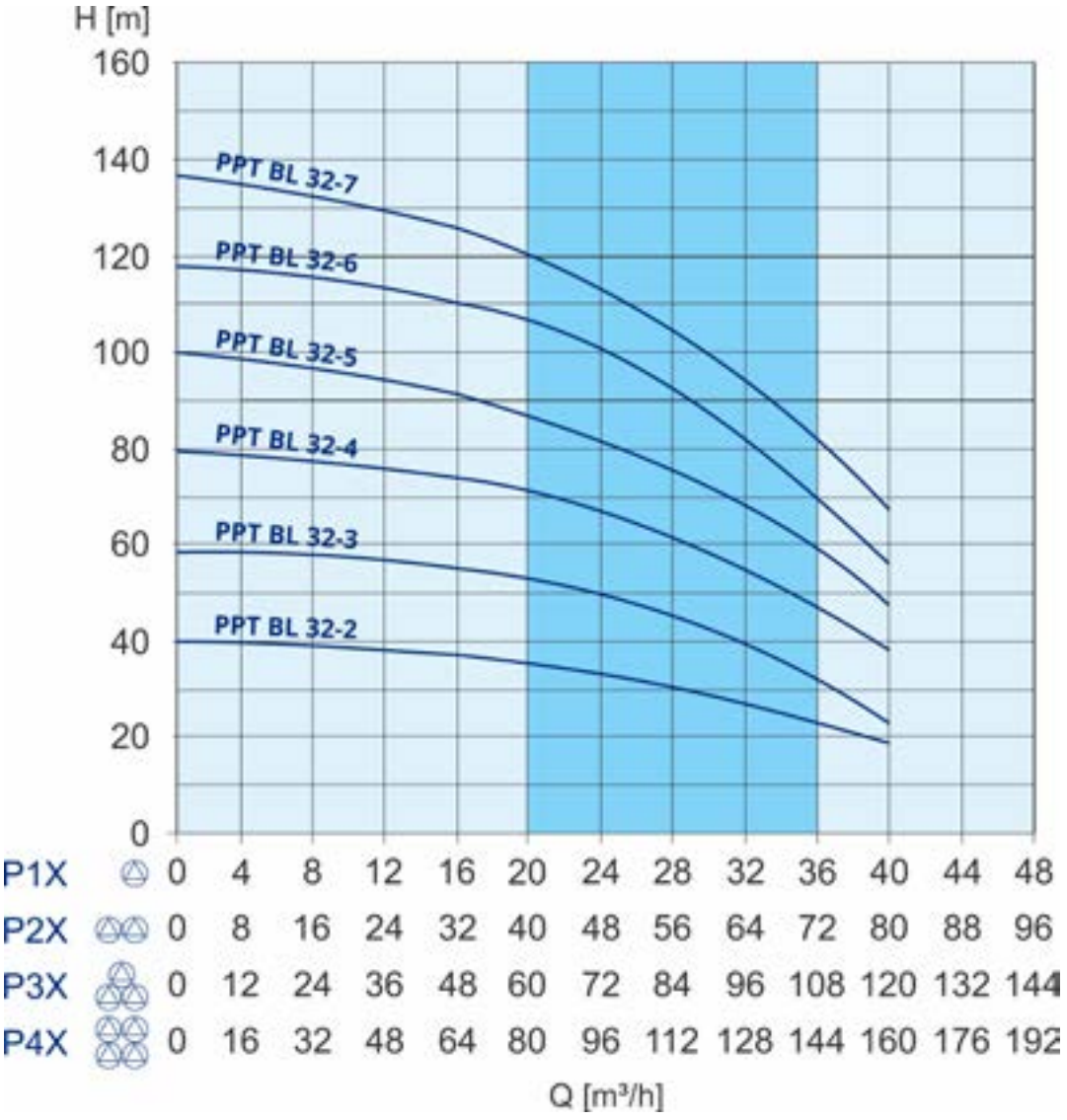
PPT BL 32-X-PXX

Pressure boosting units based on BL 32 pumps

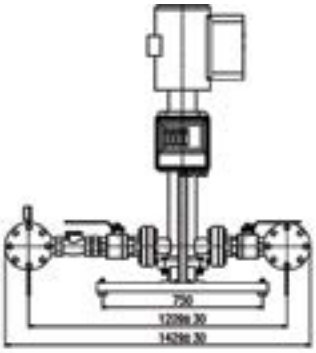
Technical specifications	
Power supply	3~ 400 V ±15%
Frequency	47-63 [Hz]
Declared protection	IP55
Fluid	Water, pH 5÷8
Fluid temperature	0÷120 [°C]
Insulation class	F
DN	100 [mm]
Max. pressure	16 [bar]
Ambient temperature	up to 40 [°C]

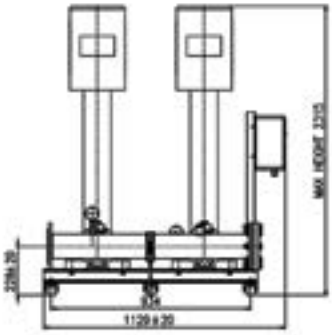
Electrical specifications		
Pump	Power per pump [kW]	Power per pump [HP]
BL 32-2	4	5,5
BL 32-3	5,5	7,5
BL 32-4	7,5	10
BL 32-5	11	15
BL 32-6	11	15
BL 32-7	15	20

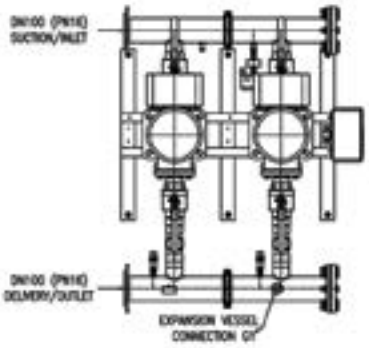
Performance curves for PPT BL 32-X-PXX

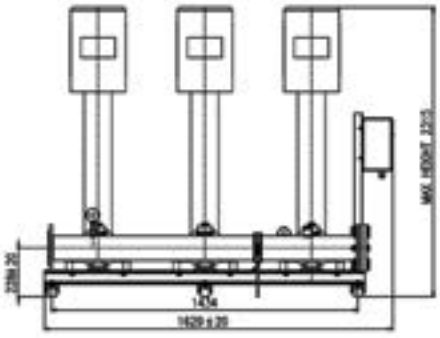


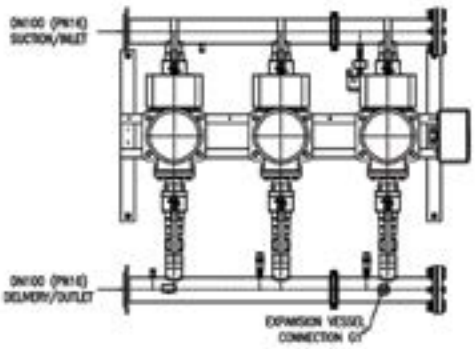
Dimensions

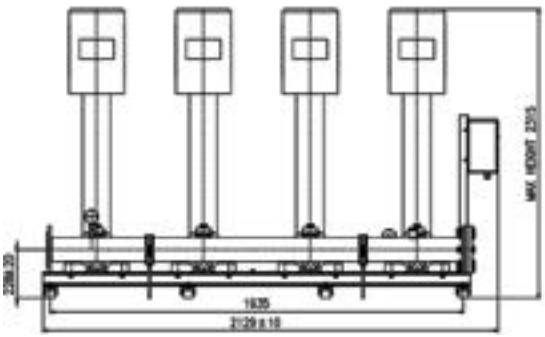

750
1229±30
1429±30

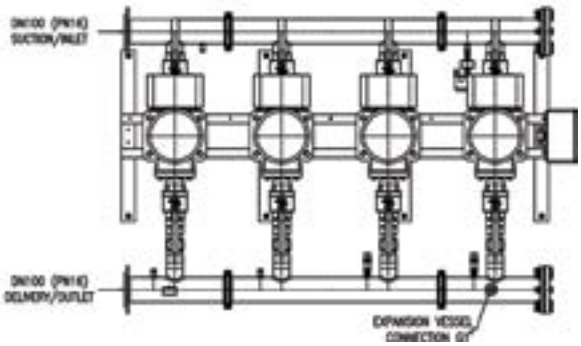

MAX. HEIGHT 2315
2286±20
934
1129±20


DN100 (PN16)
SUCTION/INLET
DN100 (PN16)
DELIVERY/OUTLET
EXPANSION VESSEL
CONNECTION G1"


MAX. HEIGHT 2315
2286±20
1434
1629±20


DN100 (PN16)
SUCTION/INLET
DN100 (PN16)
DELIVERY/OUTLET
EXPANSION VESSEL
CONNECTION G1"


MAX. HEIGHT 2315
2286±20
1635
2129±10


DN100 (PN16)
SUCTION/INLET
DN100 (PN16)
DELIVERY/OUTLET
EXPANSION VESSEL
CONNECTION G1"

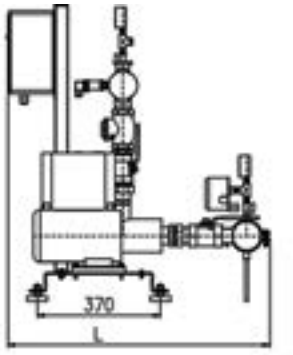
PPT BWJ 2-X-PXX

Pressure boosting units based on BWJ 2 pumps

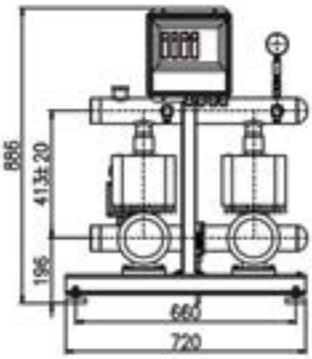
Technical specifications	
Power supply	3~ 400 V ±15%
Frequency	47-63 [Hz]
Declared protection	IP54
Fluid	Water, pH 6,5÷8,5
Fluid temperature	0÷120 [°C]
Insulation class	N
DN	65 [mm]
Max. pressure	16 [bar]
Ambient temperature	up to 40 [°C]

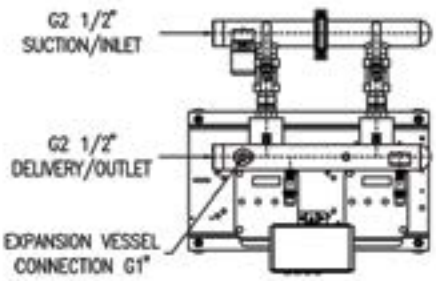
Electrical specifications		
Pump	Power per pump [kW]	Power per pump [HP]
BWJ2-2	0,37	0,5
BWJ2-3	0,37	0,5
BWJ2-4	0,55	0,75
BWJ2-5	0,55	0,75
BWJ2-6	0,75	1

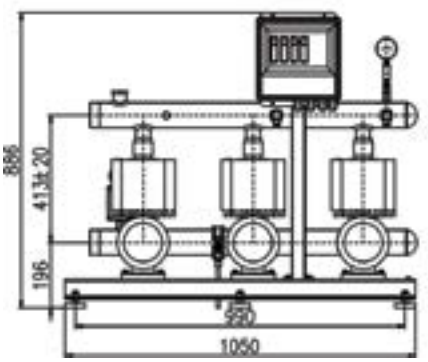
Dimensions & Materials

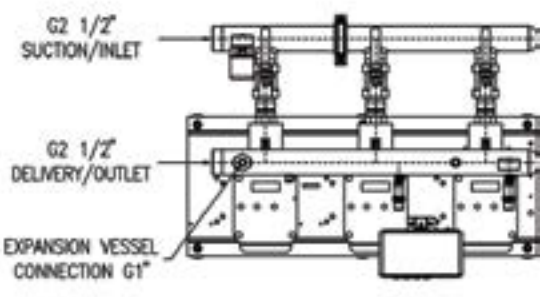


Dimensions 1	
Pump	L [mm]
BWJ2-2	599
BWJ2-3	617
BWJ2-4	635
BWJ2-5	653
BWJ2-6	727

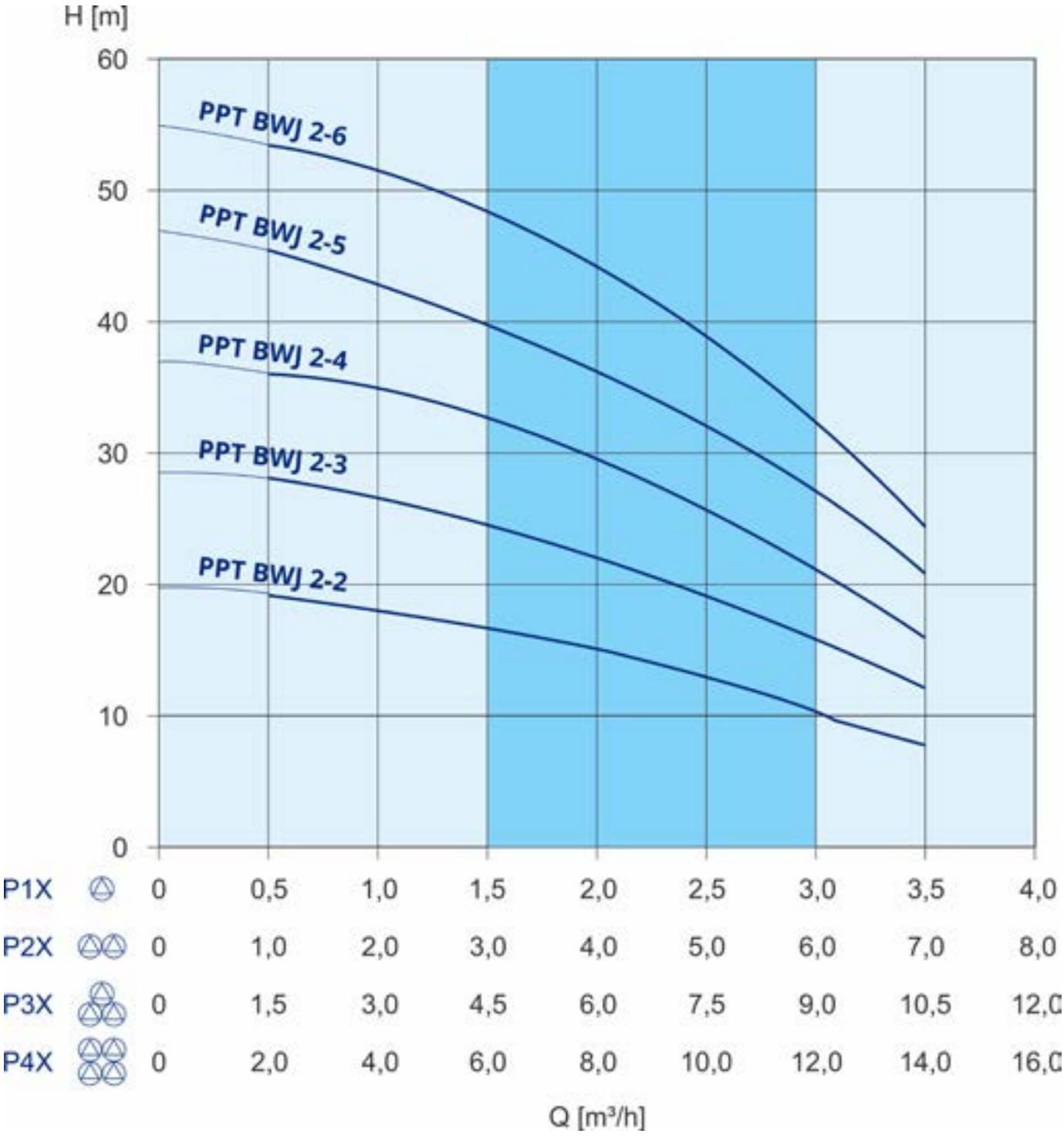








Performance curves for PPT BWJ 2-X-PXX



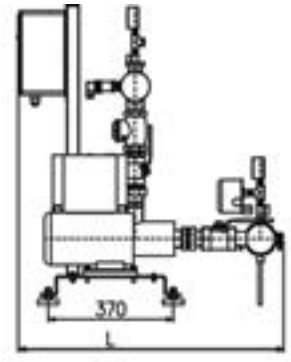
PPT BWJ 4-X-PXX

Pressure boosting units based on BWJ 4 pumps

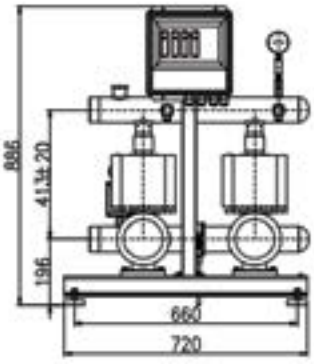
Technical specifications	
Power supply	3~ 400 V ±15%
Frequency	47-63 [Hz]
Declared protection	IP54
Fluid	Water, pH 6,5÷8,5
Fluid temperature	0÷120 [°C]
Insulation class	N
DN	65 [mm]
Max. pressure	16 [bar]
Ambient temperature	up to 40 [°C]

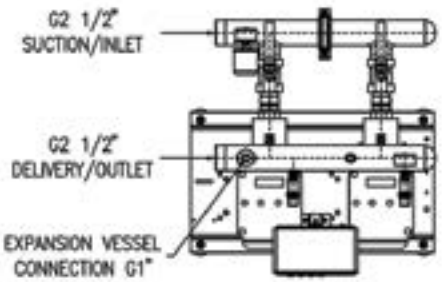
Electrical specifications		
Pump	Power per pump [kW]	Power per pump [HP]
BWJ4-2	0,37	0,5
BWJ4-3	0,55	0,75
BWJ4-4	0,75	1
BWJ4-5	1,1	1,5
BWJ4-6	1,1	1,5

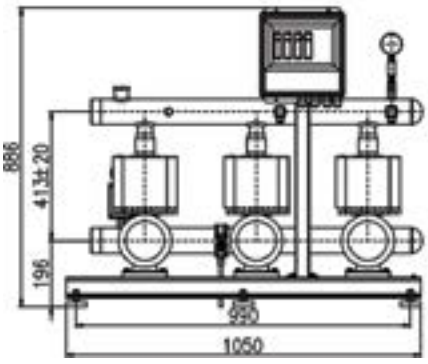
Dimensions & Materials

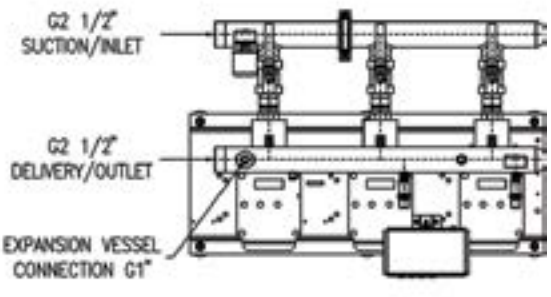


Dimensions 1	
Pump	L [mm]
BWJ4-2	617
BWJ4-3	644
BWJ4-4	727
BWJ4-5	754
BWJ4-6	781

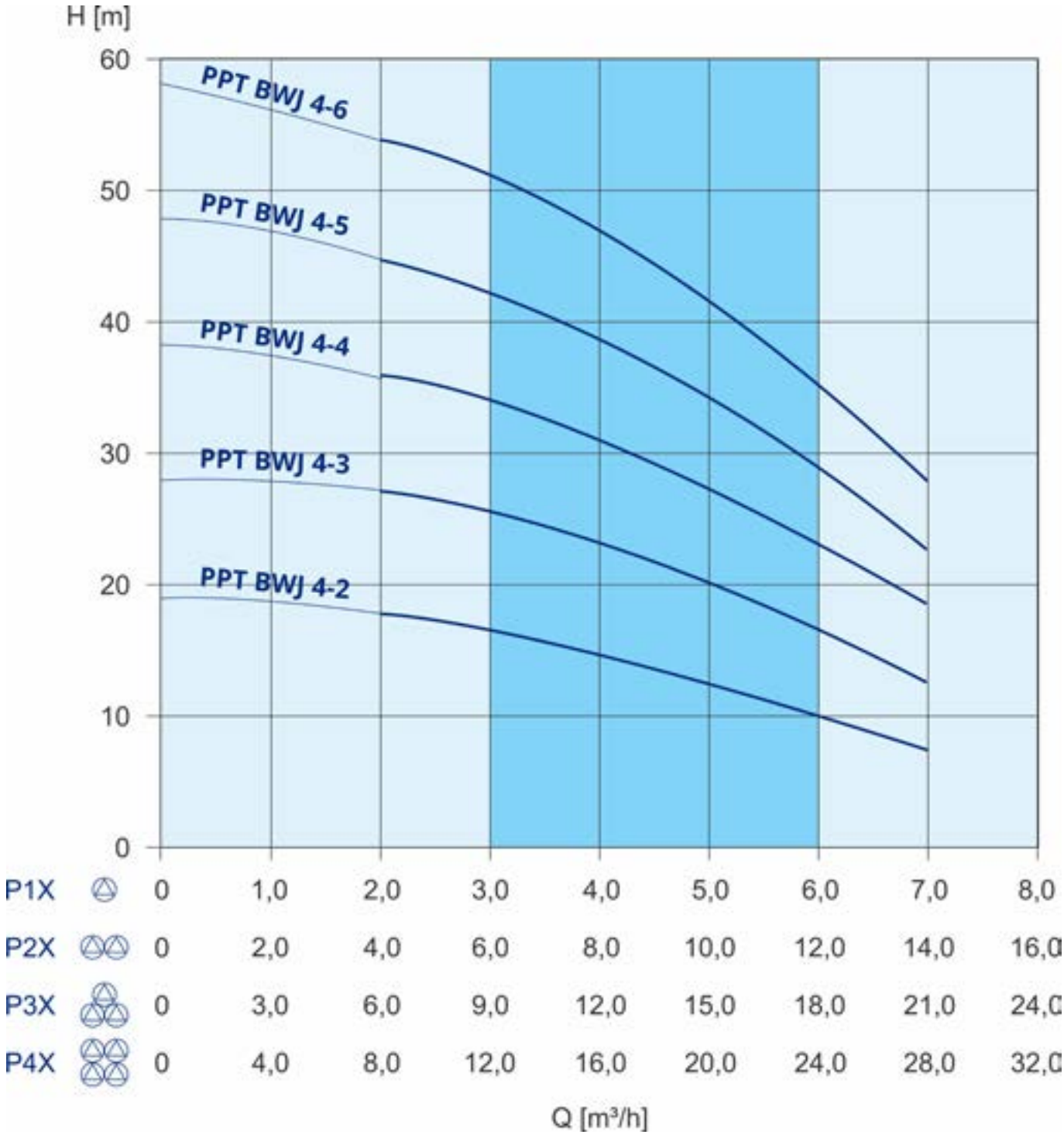








Performance curves for PPT BWJ 4-X-PXX



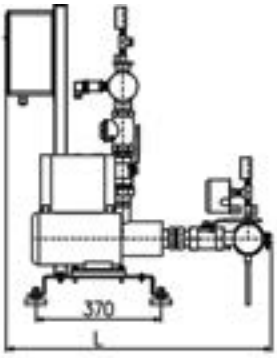
PPT BWJ 8-X-PXX

Pressure boosting units based on BWJ 8 pumps

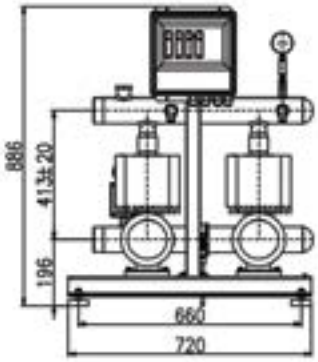
Technical specifications	
Power supply	3~ 400 V ±15%
Frequency	47-63 [Hz]
Declared protection	IP54
Fluid	Water, pH 6,5÷8,5
Fluid temperature	0÷120 [°C]
Insulation class	N
DN	65 [mm]
Max. pressure	16 [bar]
Ambient temperature	up to 40 [°C]

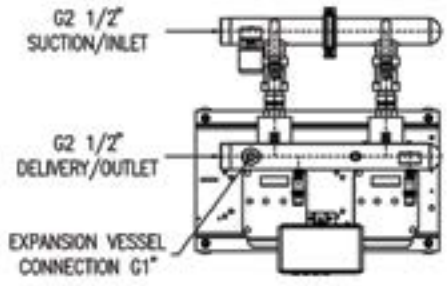
Electrical specifications		
Pump	Power per pump [kW]	Power per pump [HP]
BWJ8-2	0,75	1
BWJ8-3	1,1	1,5
BWJ8-4	1,5	2
BWJ8-5	2,2	3

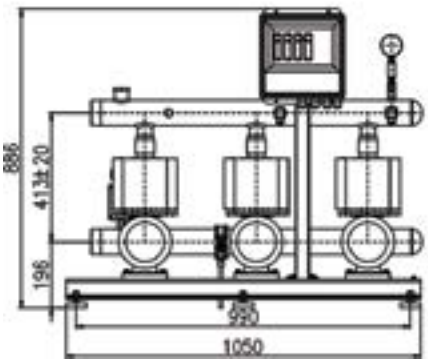
Dimensions & Materials

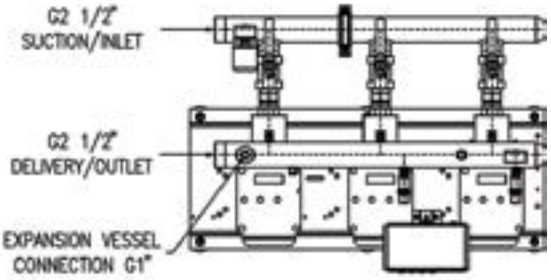


Dimensions 1	
Pump	L [mm]
BWJ8-2	659
BWJ8-3	689
BWJ8-4	786
BWJ8-5	816

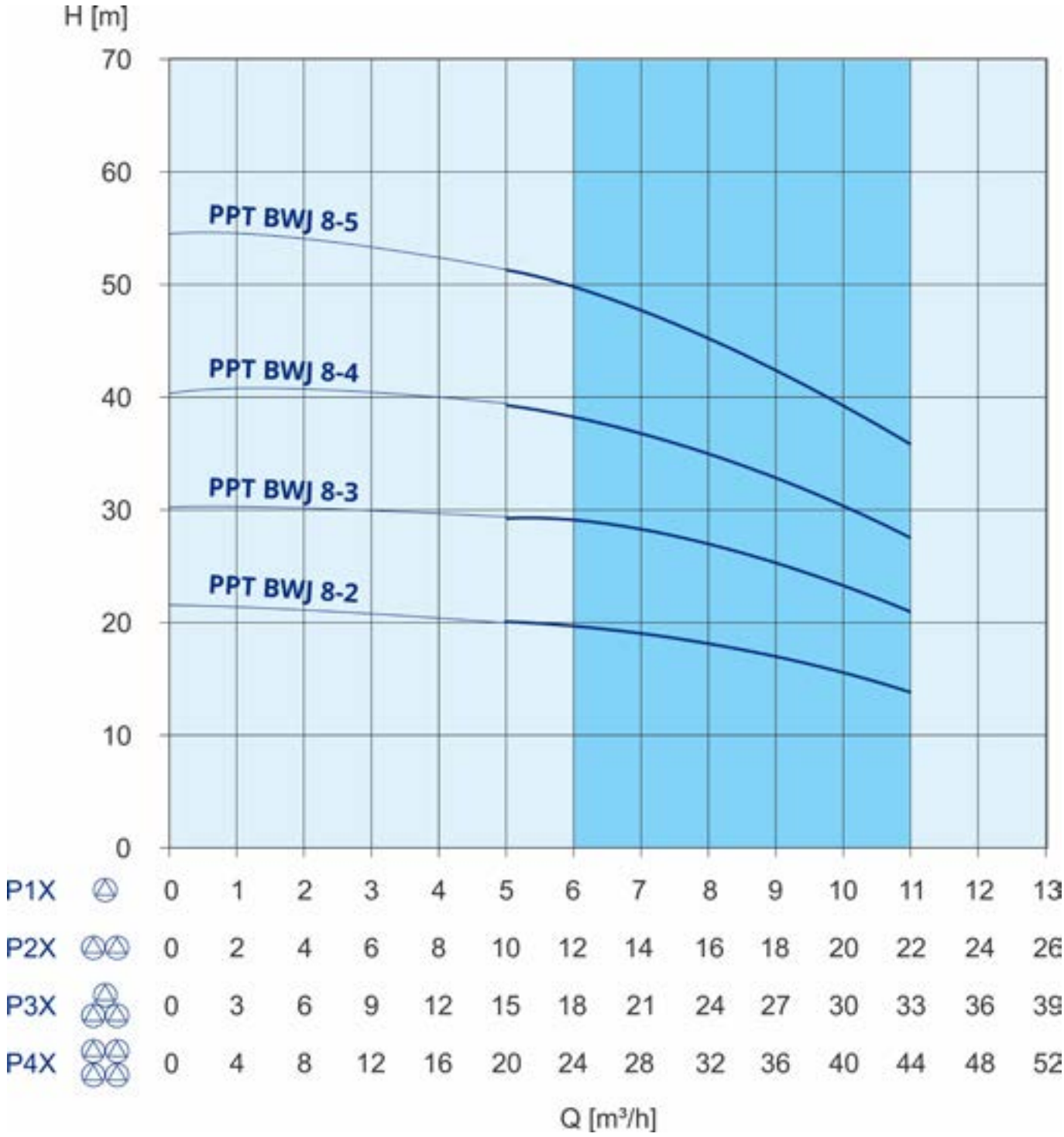








Performance curves for PPT BWJ 8-X-PXX



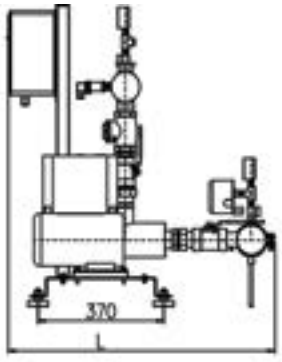
PPT BWJ 16-X-PXX

Pressure boosting units based on BWJ 16 pumps

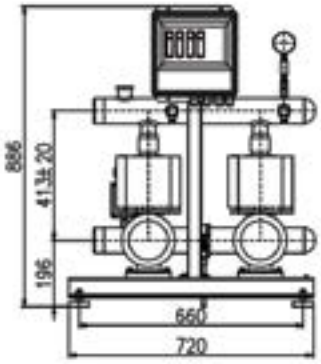
Technical specifications	
Power supply	3~ 400 V ±15%
Frequency	47-63 [Hz]
Declared protection	IP54
Fluid	Water, pH 6,5÷8,5
Fluid temperature	0÷120 [°C]
Insulation class	N
DN	65 [mm]
Max. pressure	16 [bar]
Ambient temperature	up to 40 [°C]

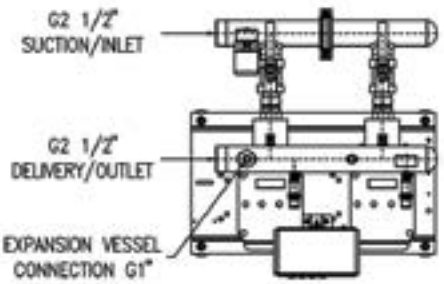
Electrical specifications		
Pump	Power per pump [kW]	Power per pump [HP]
BWJ16-2	2,2	3
BWJ16-3	3	4

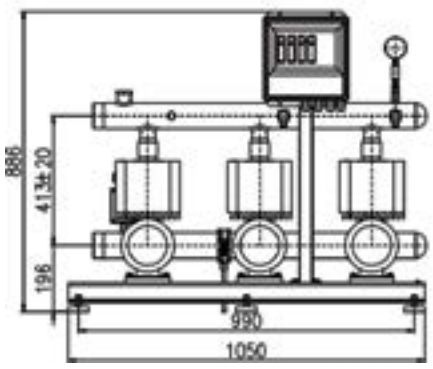
Dimensions & Materials

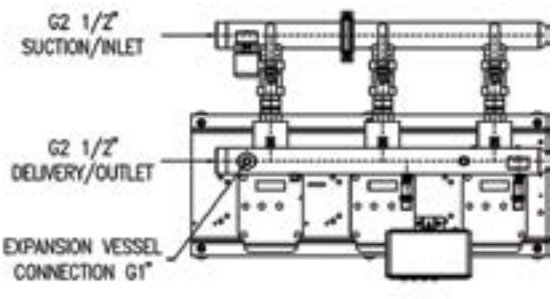


Dimensions 1	
Pump	L [mm]
BWJ16-2	750
BWJ16-3	807

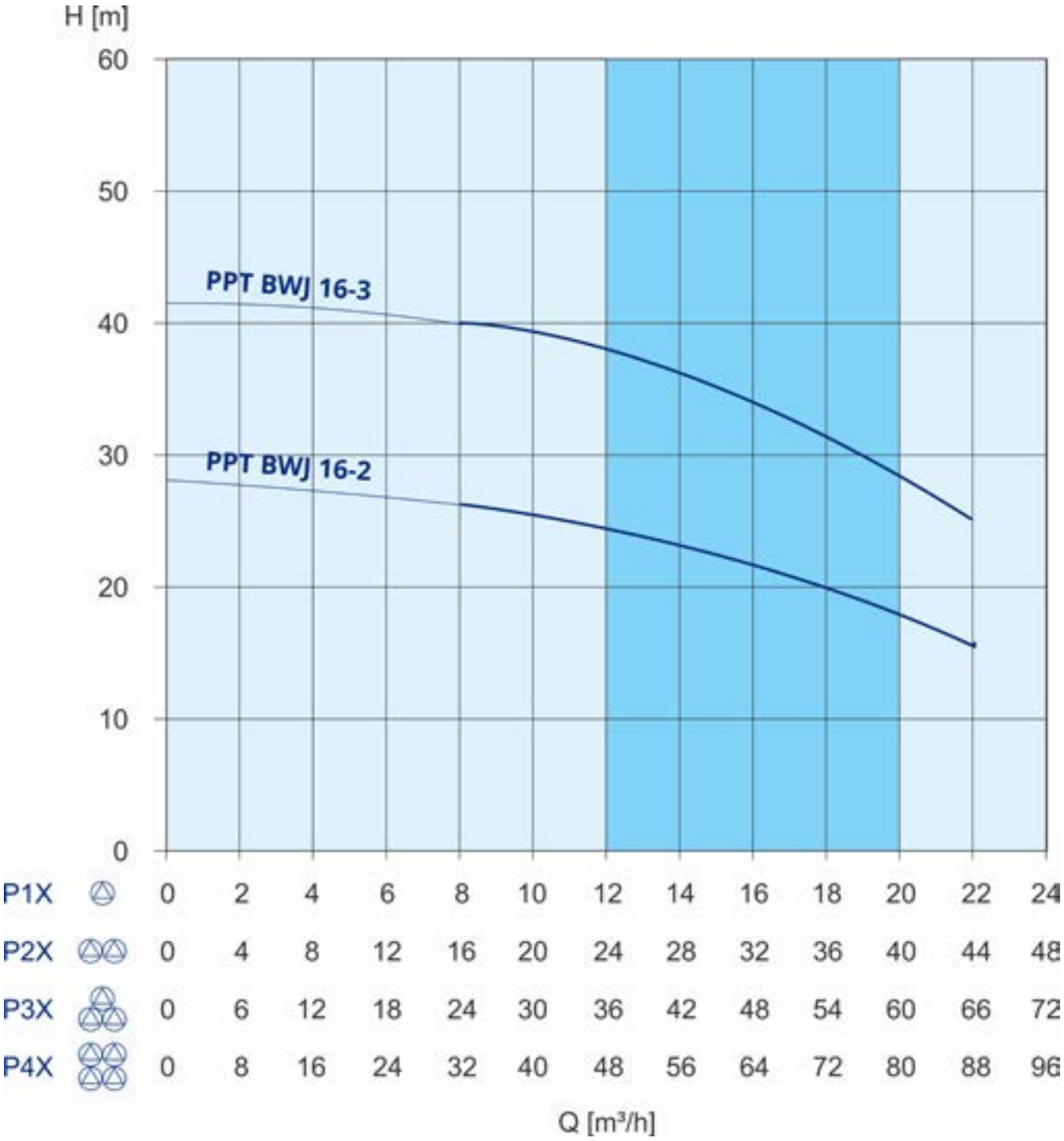








Performance curves for PPT BWJ 16-X-PXX





THE HONEST PRODUCT FOR THE HONEST PRICE

IMP PUMPS d.o.o.
Pod hrasti 28
1218 Komenda
SLOVENIA

E: info@imp-pumps.com
T: +386 1 28 06 400
F: +386 1 28 06 460
www.imp-pumps.com

Contact:

IMPPUMPS®
Intelligent Motor Pumps

1.2.2024

© IMP PUMPS d.o.o.