EBARA

Japanese Technology since 1912

Booster sets

Product Catalogue

EBARA

Japanese Technology since 1912

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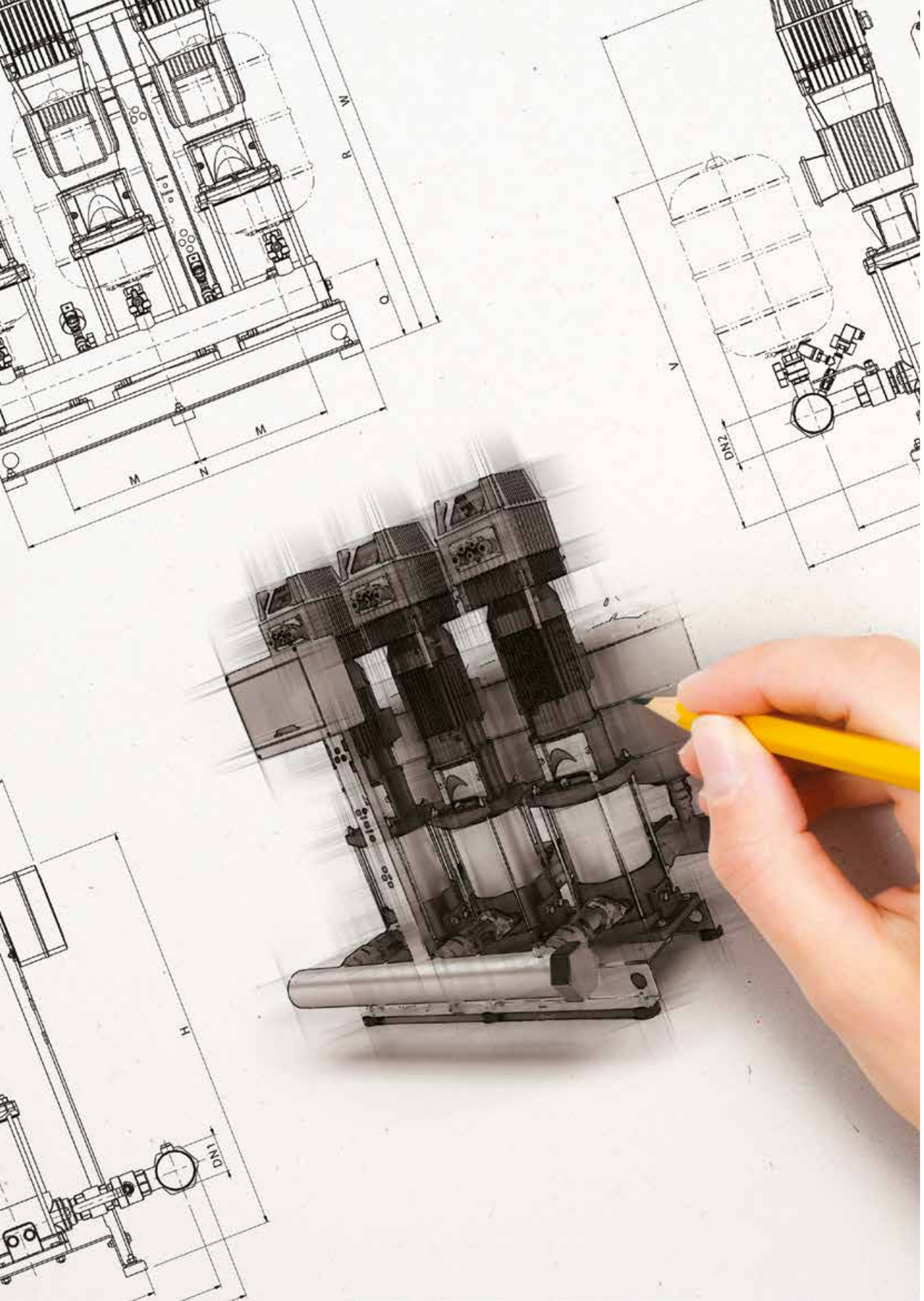


Design, which direction?

The design world is increasingly oriented towards the demands and trends of the market, offering concrete responses through "energy-sustainable" design solutions with the aim of increasing environmental sustainability. In this context, solutions and systems that best adapt to these needs and that follow the trend of sustainable design are winning.

EBARA is committed to offering the appropriate support and service by offering highly qualified pressure systems that respond to the challenge of designers: a guarantee of maximum indoor comfort, energy efficiency, modularity and compactness of systems plus low running costs.

MODULARITY COMPACTNESS

INDOOR COMFORT

MAXIMUM YIELD

ENERGY EFFICIENCY

Efficiency
right up to the top floor!

The water available for the shower of the tenant on the third floor, the water to heat the apartment of the chilly tenant of the fifth, and the water needed to prepare the dinner of the family on the last floor.
On whatever floor you live and whatever the requirement at the time, the prerogative is always to have water in the right quantity and at the right pressure, ensuring maximum comfort available on any floor.

For this reason, our pressurisation groups offer top-level performance, able to match the highest level of market performance. The groups, consisting of 2 to 8 pumps, allow operating pressures up to 25 bar (on request) at an altitude of no more than 1000 m a.s.l. The use of the technologies based on the variation in the frequency of the pump motors, feeding allows managing of the group at a constant pressure; in this way the pumps are only started when needed, avoiding unnecessary energy waste and extending their life. Furthermore, a "soft" start and stop of the system can be carried out, recording the operating hours and any alarms.

All this to reduce water hammer, reduced pump wear, high comfort in heating, air conditioning and pressurisation systems and above all energy savings of the entire system.
This for EBARA is efficiency up to the top floor!

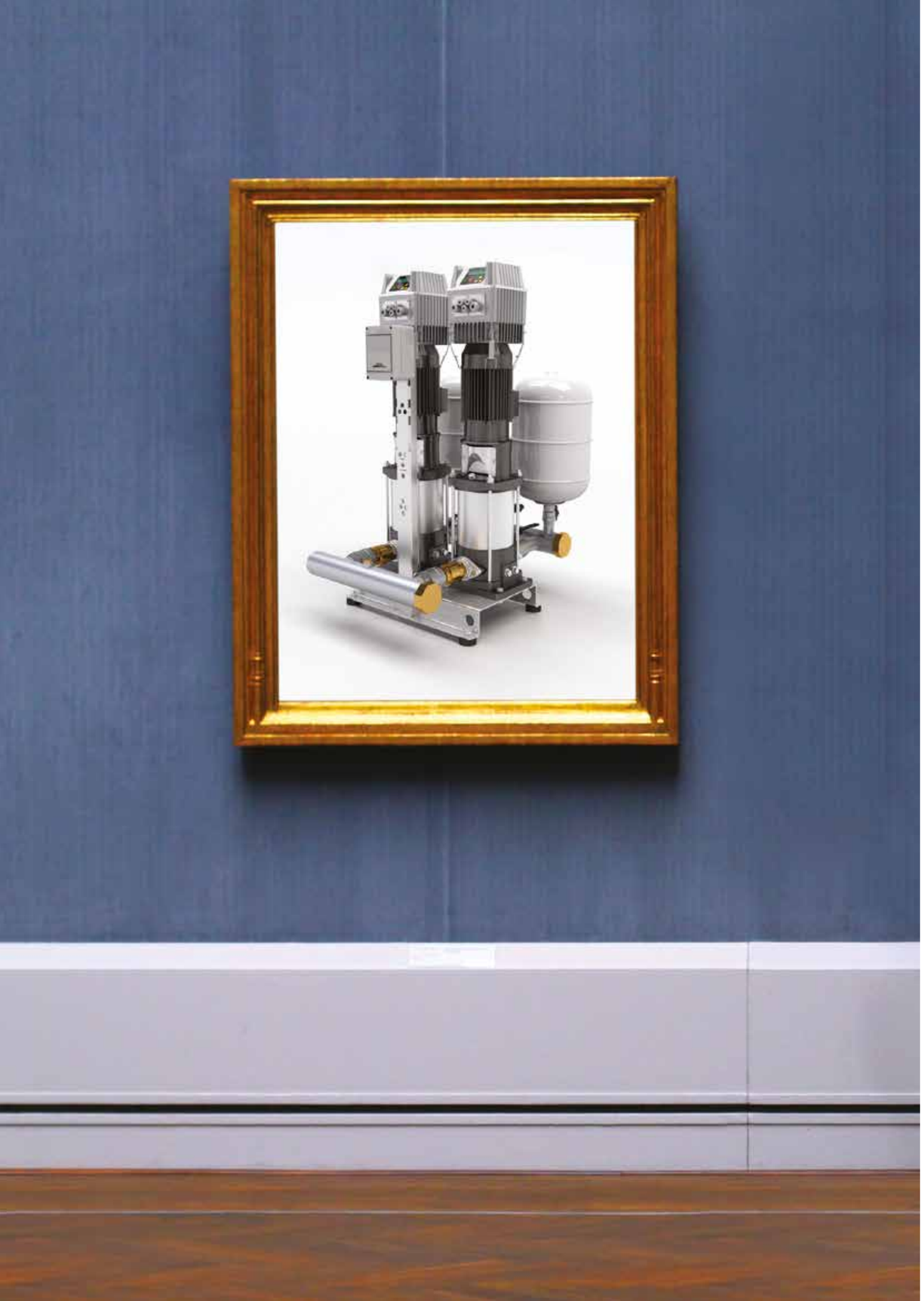
One system, multiple uses

The EBARA pressurisation groups due to their versatility can be used in various fields of application

Civil Construction
Hospitals
Condominiums
Schools
Hotels
Tourist Accommodation
Shopping centres

Water supply
Home sprinkler systems
Pools and spas
Garden irrigation
Sports field irrigation
Sprinkler irrigation
Drip irrigation

Industry
Pressurisation for industrial use
Steam systems
Condensation systems
Vehicle washing systems
Industrial parts washing



To a professional standard, that's our way of working

The pressurisation groups are used in cases where there is a requirement to **increase the pressure** and to provide an **adequate service** even under the most challenging of conditions.
The EBARA systems include the **best technologies** and the most **efficient components** that can be combined with each other.

These are automatic systems composed of two or more pumps in parallel which are designed to offer a solution that is **simple** and **reliable** to meet the most common requirements of water supply in residential applications and to provide support in industrial applications.

They are available in two versions: fixed speed with transducer pressure **(GP)**, with variable speed, equipped with inverter with pressure transducer **(GPE)**

The pumps: of the MATRIX and COMPACT models, up to the EVMS and CVM.
The motors, in the IE3 version above 0.75 kW; the inverters of the E-*drive*, E-power and Hydrocontroller series, for control and management of the pumps.
But not only this: galvanised steel base, **stainless steel manifolds**, in AISI 304 or AISI 316, sized according to the total flow rate of the pressurisation group, accessories such as the shut-off valves on the suction and supply side, the check valve on the suction side (one for each pump), the pressure gauges and the predisposition for connection of the water storage tank on the supply manifold.

Fixed speed or variable speed?

GP
Fixed speed
The GP pressurisation groups, consisting of one or several pumps are pressurisation groups whose **functioning depends directly on the water demand** in the system in which they are installed. The starting of one or several pumps is **controlled by pressure transducer** which, experiencing a change of pressure in the system, start the pumps up to meet the demand; in the same way, as the demand decreases, the pumps are stopped. The **control panel** accompanying the GP it's fitted to start the pumps alternately standardising the conditions of use. In addition, the possibility of using a float or a minimum pressure switch provides even greater safety for the group's electric pumps: it in fact avoids starting them in the absence of water, thus preventing the most frequent cause of failure.
The groups have the predisposition for the assembly of storage tanks (available on request).

GPE with E-power
Variable speed
The GPE groups with E-power and Hydrocontroller are groups consisting of two pumps. Designed to operate with **a water passage inverter**. The system is **controlled by a Master Inverter** that varies the motor speed to reach the set point, adapting to any change in pressure. If the pressure is not enough to meet demand, the second pump is inserted and in this way the two pumps work at the same speed, variable, to **reach optimal pressure**. When the demand falls, the two electric pumps gradually reduce their speed, which gradually decreases until the group is completely shut down when the demand reaches zero.
The groups have the predisposition for the assembly of storage tanks (available on request).

GPE with E-*drive*
Variable speed
The functioning of the GPE groups with E-*drive* was designed to operate with **one inverter for each pump**. The system is **controlled by a Master Inverter** that receives a signal from a pressure transducer (4-20 mA). When the pressure changes, the inverter **varies the rotation speed** of the motor of the first electric pump to reach the set point. If the pressure is not enough to meet demand, a second pump is inserted and the inverter of this one adjusts the speed to **work in the best way possible**. This takes place for all the pumps of the group for as long as the demand is present. When the demand falls, the inverter gradually reduces the speed of the pumps which gradually decreases until the group is completely shut down when the demand reaches zero.
The groups have the predisposition for the assembly of storage tanks (available on request).

2GP 2CDX

Booster sets with two horizontal twin impeller pumps with stainless steel hydraulics

Two 2CDX series pumps with self-ventilated 2-pole asynchronous motor, IE3 efficiency class for three phase motors starting from 0.75 kW. The system is equipped as standard with a control panel with alternating pump and is designed for the installation of storage tanks (available on request).

Water supply for Building Service

Water supply for Industry

Irrigation

FIELD OF APPLICATION

- Maximum liquid temperature: 50°C
- Maximum operating pressure: 10 bar
- Water with maximum presence of solids: 50 ppm (particle size 0.25-0.1 mm or less), no gas or corrosive and aggressive substances
- Maximum chlorine content: 500 ppm
- Altitude not exceeding 1000 m a.s.l.;
- Humidity 50% without condensation
- Ambient protected against atmospheric agents.

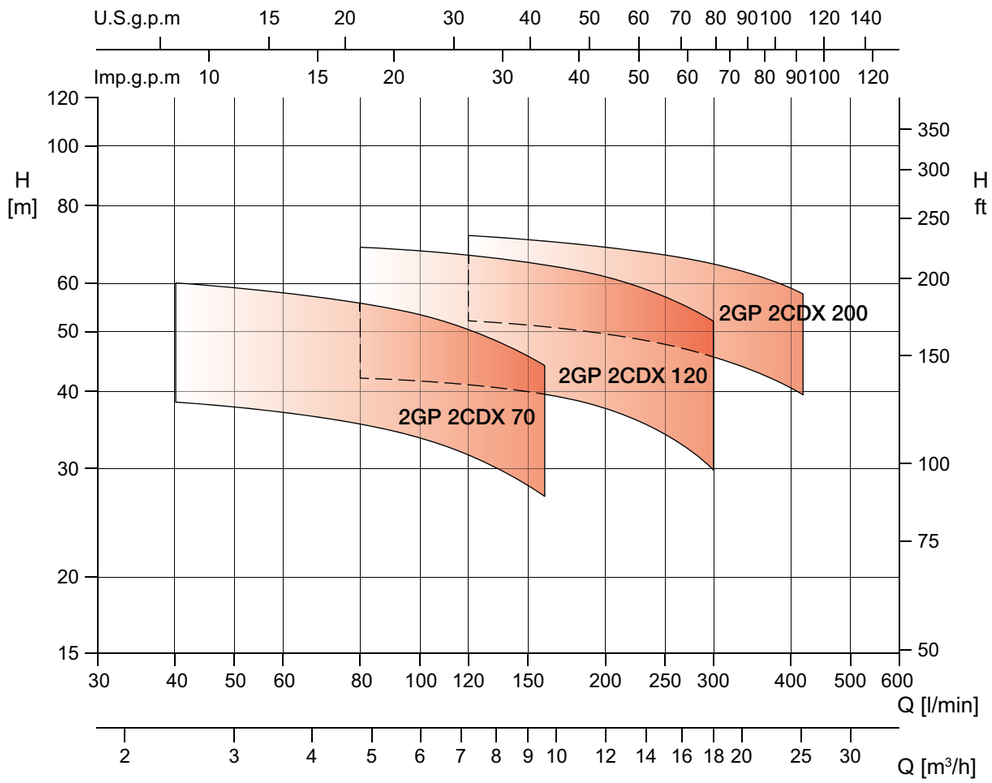
For more information refer to our **Data Book** on the website **www.ebaraeurope.com**

ELECTRIC PUMP MATERIALS

- Pump body, impeller, shaft in AISI 304
- Mechanical seal in Ceramic/Carbon/NBR

MOTOR TECHNICAL DATA

- IE3 motor starting from 0.75kW
- Self-ventilated 2-pole asynchronous motor
- Class of insulation F
- IP55 protection degree
- Single-phase voltage 230V ±10% 50Hz,Three-phase voltage 230/400V ±10% 50Hz



Model	kW	HP	Q=Capacity								
			l/min	40	80	120	160	240	300	360	420
			m³/h	2,4	4,8	7,2	9,6	14,4	18,0	21,6	25,2
			H=Total Head [m]								
2GP 2CDX 70/10(M)	0,75+0,75	1+1		38,5	35,3	31,5	27,0	-	-	-	-
2GP 2CDX 70/12(M)	0,9+0,9	1,2+1,2		44,5	40,3	35,5	30,0	-	-	-	-
2GP 2CDX 70/15(M)	1,1+1,1	1,5+1,5		52,5	48,0	42,8	36,5	-	-	-	-
2GP 2CDX 70/20(M)	1,5+1,5	2+2		60,0	55,6	50,4	44,0	-	-	-	-
2GP 2CDX 120/15(M)	1,1+1,1	1,5+1,5		-	42,0	41,0	39,5	35,0	30,0	-	-
2GP 2CDX 120/20(M)	1,5+1,5	2+2		-	51,5	49,5	47,4	41,8	36,5	-	-
2GP 2CDX 120/30	2,2+2,2	3+3		-	59,0	57,0	54,6	49,2	44,0	-	-
2GP 2CDX 120/40	3+3	4+4		-	68,5	66,5	64,0	58,0	52,0	-	-
2GP 2CDX 200/30	2,2+2,2	3+3		-	-	52,0	50,8	48,1	45,5	42,7	39,5
2GP 2CDX 200/40	3+3	4+4		-	-	62,5	61,1	58,0	55,2	52,3	49,0
2GP 2CDX 200/50	3,7+3,7	5+5		-	-	71,5	70,1	67,0	64,3	61,2	57,5

2GP AGA

Booster sets with two horizontal single impeller pumps with cast iron hydraulics

Two pumps of AGA series with 2-pole induction motor with self-ventilated 2-pole asynchronous motor, IE3 efficiency class for three phase motors starting from 0.75 kW. The system is equipped as standard with a control panel with alternating pump and is designed for the installation of storage tanks (available on request).

Water supply for Building Service

Water supply for Industry

Irrigation

FIELD OF APPLICATION

- Maximum liquid temperature: 45°C
- Maximum operating pressure: 10 bar
- Water with maximum presence of solids: 50 ppm (particle size 0.1-0.25 mm or less), no gas or corrosive and aggressive substances
- Maximum chlorine content: 500 ppm
- Altitude not exceeding 1000 m a.s.l.;
- Humidity 50% without condensation
- Ambient protected against atmospheric agents.

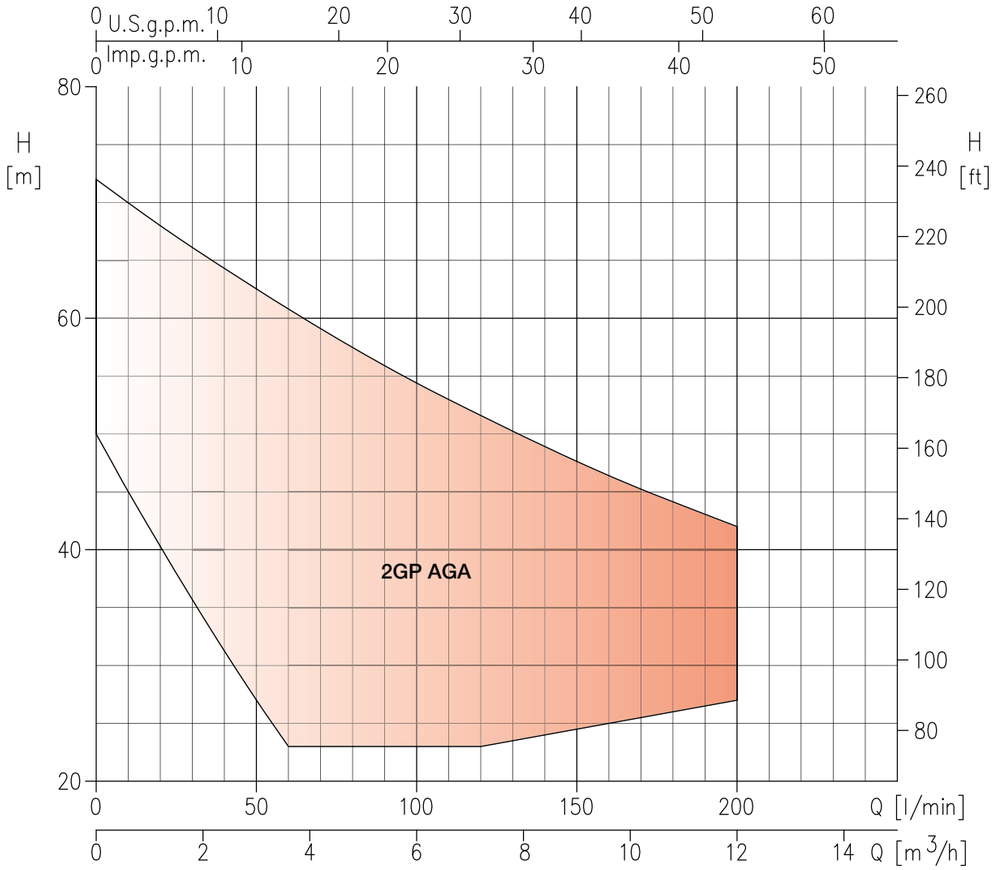
For more information refer to our **Data Book** on the website **www.ebaraeurope.com**

ELECTRIC PUMP MATERIALS

- Cast iron pump body
- Shaft in AISI 303
- Glass fibre reinforced technopolymer impeller for AGA 1.00, brass for the rest of the range
- Mechanical seal in Ceramic/Carbon/NBR

MOTOR TECHNICAL DATA

- IE3 motor starting from 0.75kW
- Self-ventilated 2-pole asynchronous motor
- Class of insulation F
- IP44 Protection degree
- Single-phase voltage 230V ±10% 50Hz,Three-phase voltage 230/400V ±10% 50Hz



Model	kW	HP	Q=Capacity									
			l/min	10	20	40	60	90	100	120	160	200
			m³/h	0,6	1,2	2,4	3,6	5,4	6,0	7,2	9,6	12,0
			H=Total Head [m]									
2GP AGA 1.00(M)	0,75+0,75	1+1		47,5	45,0	40,3	35,7	29,1	27,0	23,0	-	-
2GP AGA 1.50(M)	1,1+1,1	1,5+1,5		-	48,0	45,1	42,4	38,6	37,4	35,1	30,8	27,0
2GP AGA 2.00(M)	1,5+1,5	2+2		-	59,0	55,6	52,2	47,3	45,7	42,5	36,4	30,5
2GP AGA 3.00	2,2+2,2	3+3		-	68,0	64,3	60,8	55,9	54,4	51,6	46,4	42,0

2GP CDA

Booster sets with two horizontal twin impeller pumps with cast iron hydraulics

Two CDA series pumps with self-ventilated 2-pole asynchronous motor, IE3 efficiency class for three phase motors starting from 0.75 kW. The system is equipped as standard with a control panel with alternating pump and is designed for the installation of storage tanks (available on request).

Water supply for Building Service

Water supply for Industry

Irrigation

FIELD OF APPLICATION

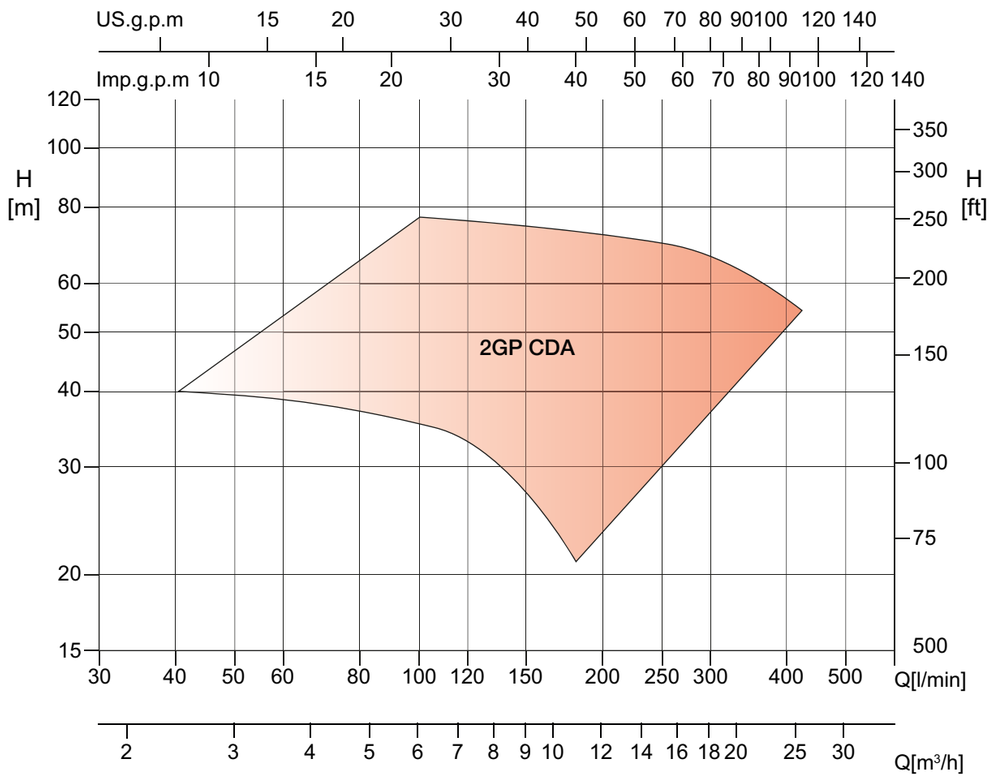
- Maximum liquid temperature: 40°C for 2GP CDA 1.00, 50°C for the rest of the models
- Maximum operating pressure: 10 bar
- Water with maximum presence of solids: 50 ppm (particle size 0.1-0.25 mm or less), no gas or corrosive and aggressive substances
- Maximum chlorine content: 500 ppm
- Altitude not exceeding 1000 m a.s.l.;
- Humidity 50% without condensation
- Ambient protected against atmospheric agents.
  For more information refer to our **Data Book** on the website **www.ebaraeurope.com**

ELECTRIC PUMP MATERIALS

- Cast iron pump body
- Shaft in AISI 303 for CDA 1.00-1.50-2.00-3.00, in AISI 304 for CDA 4.00 - 5.50
- Glass fibre reinforced technopolymer impeller for CDA 1.00, brass for the rest of the range
- Mechanical seal in Ceramic/Carbon/NBR

MOTOR TECHNICAL DATA

- IE3 motor starting from 0.75kW
- Self-ventilated 2-pole asynchronous motor
- Class of insulation F
- IP44 Protection degree
- Single-phase voltage 230V ±10% 50Hz,Three-phase voltage 230/400V ±10% 50Hz



Model	kW	HP	Q=Capacity										
			l/min	40	80	100	160	180	200	220	280	340	380	420
			m³/h	2,4	4,8	6,0	9,6	10,8	12,0	13,2	16,8	20,4	22,8	25,2
			H=Total Head [m]											
2GP CDA 1.00(M)	0,75+0,75	1+1		39,5	37,0	35,2	27,0	21,0	-	-	-	-	-	-
2GP CDA 1.50(M)	1,1+1,1	1,5+1,5		50,8	48,8	47,1	38,4	33,4	27,5	-	-	-	-	-
2GP CDA 2.00(M)	1,5+1,5	2+2		60,5	58,6	56,9	49,8	46,5	40,3	32,5	-	-	-	-
2GP CDA 3.00	2,2+2,2	3+3		-	60,5	59,3	54,1	51,6	48,4	44,6	32,0	-	-	-
2GP CDA 4.00	3+3	4+4		-	-	67,0	64,8	63,9	62,5	62,0	58,0	53,5	48,0	-
2GP CDA 5.50	4+4	5,5+5,5		-	-	76,5	73,9	72,9	71,8	70,5	66,8	62,0	58,3	54,0

2GP(E) COMPACT

Booster sets with two horizontal cast iron multi-stage pumps

Two COMPACT series pumps with self-ventilated 2-pole asynchronous motor, IE3 efficiency class for three phase motors starting from 0.75 kW. The system is equipped as standard with a control panel with alternating pump for the 2GPE version fitted with E-power inverter and is designed for the installation of storage tanks (available on request).

Water supply for Building Service

Water supply for Industry

Irrigation

FIELD OF APPLICATION

- Maximum liquid temperature: 40°C
- Maximum operating pressure: 10 bar
- Water with maximum presence of solids: 50 ppm (particle size 0.1-0.25 mm or less), no gas or corrosive and aggressive substances
- Maximum chlorine content: 500 ppm
- Altitude not exceeding 1000 m a.s.l.;
- Humidity 50% without condensation
- Ambient protected against atmospheric agents.
  For more information refer to our **Data Book** on the website **www.ebaraeurope.com**

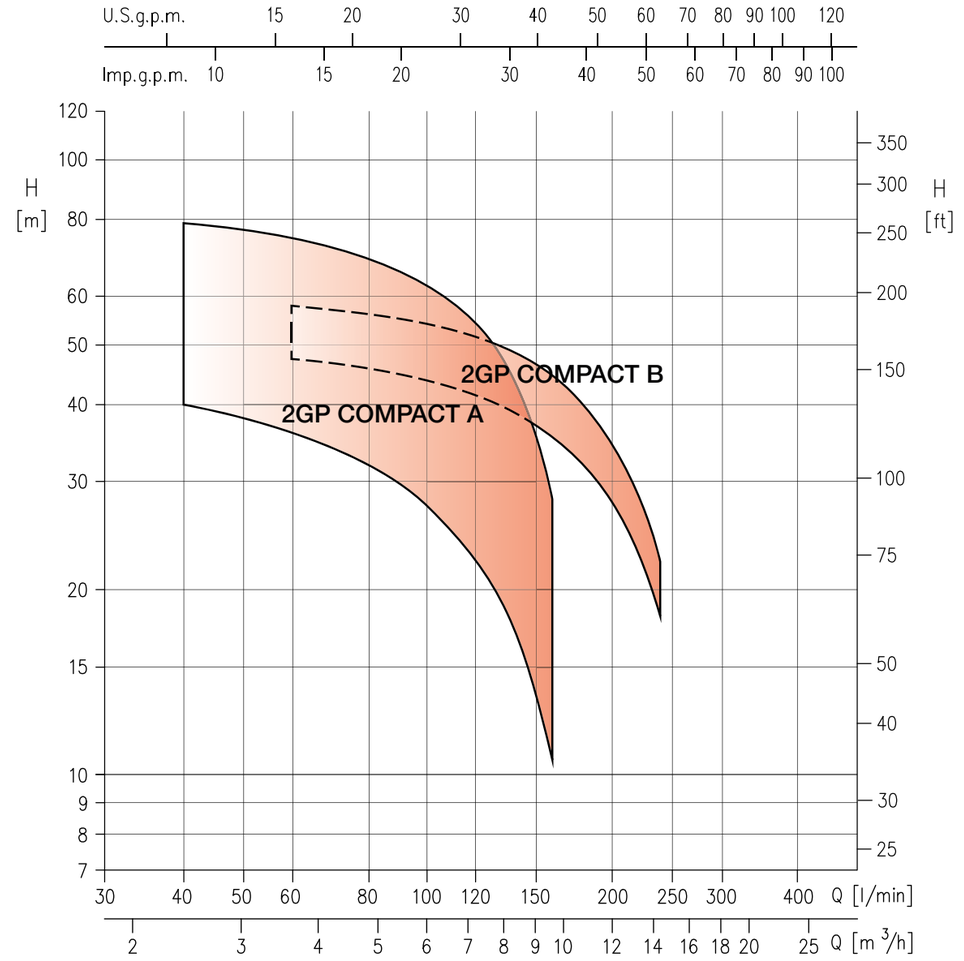
ELECTRIC PUMP MATERIALS

- Cast iron pump body
- Shaft in AISI 416
- Glass fibre reinforced technopolymer impeller
- Mechanical seal in Ceramic/Carbon/NBR

MOTOR TECHNICAL DATA

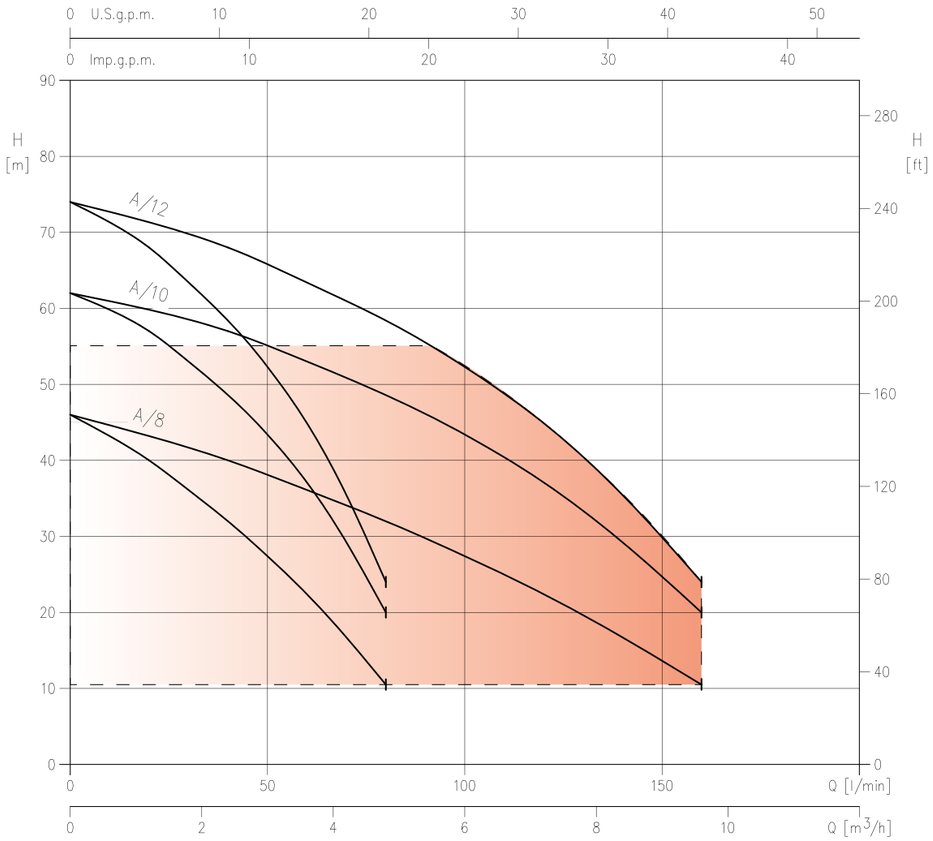
- IE3 motor starting from 0.75kW
- Self-ventilated 2-pole asynchronous motor
- Class of insulation F
- IP44 Protection degree
- Single-phase voltage 230V ±10% 50Hz,Three-phase voltage 230/400V ±10% 50Hz

2GP COMPACT



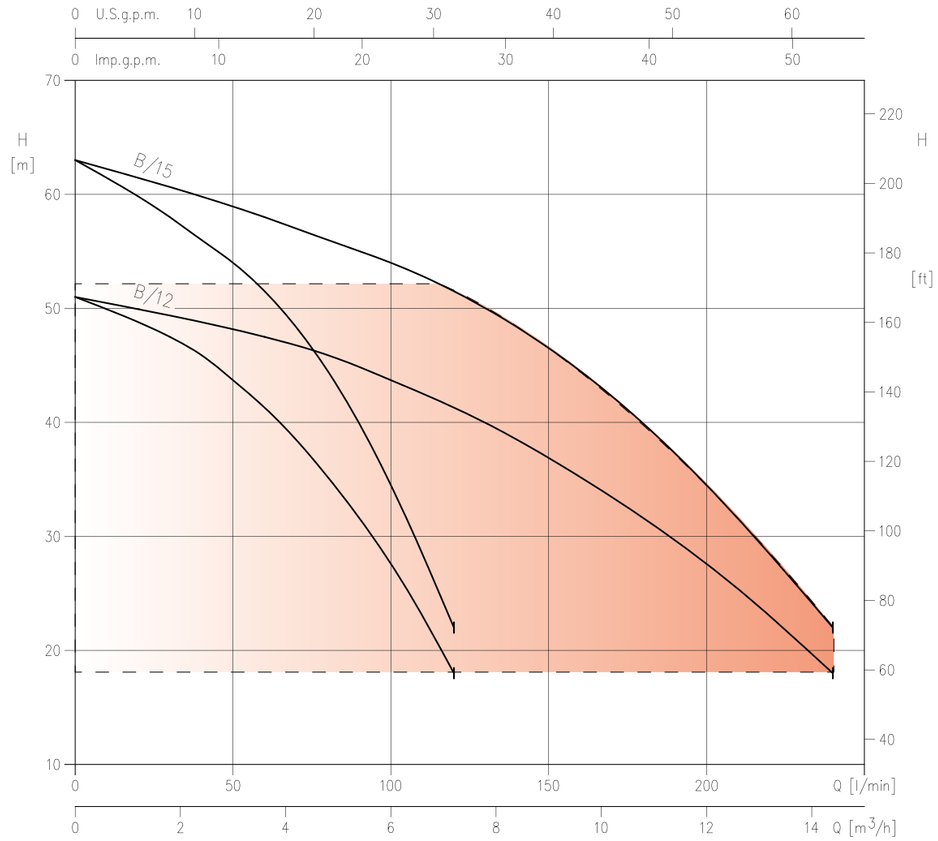
Model	kW	HP	Q=Capacity l/min	40	60	80	100	120	160	200	240
			m³/h	2,4	3,6	4,8	6,0	7,2	9,6	12,0	14,4
			H=Total Head [m]								
2GP COMPACT A/8(M)	0,6+0,6	0,8+0,8		39,7	36,1	32,0	27,4	22,4	10,5	-	-
2GP COMPACT A/10(M)	0,75+0,75	1+1		56,5	53,0	48,5	43,5	37,1	20,0	-	-
2GP COMPACT A/12(M)	0,9+0,9	1,2+1,2		67,5	63,5	58,5	52,5	45,0	24,0	-	-
2GP COMPACT A/15(M)	1,1+1,1	1,5+1,5		79,0	74,5	69,0	62,5	54,0	28,0	-	-
2GP COMPACT B/12(M)	0,9+0,9	1,2+1,2		-	47,5	46,0	43,5	41,5	35,2	27,6	18,0
2GP COMPACT B/15(M)	1,1+1,1	1,5+1,5		-	58,0	56,0	54,0	51,5	44,5	34,5	22,0

2GPE COMPACT A



Model	kW	HP	Q=Capacity						
			l/min	40	60	80	100	120	160
			m³/h	2,4	3,6	4,8	6,0	7,2	9,6
			H=Total Head [m]						
2GPE COMPACT A/8	0,6+0,6	0,8+0,8		39,7	36,1	32,0	27,4	22,4	10,5
2GPE COMPACT A/10	0,75+0,75	1+1		56,5	53,0	48,5	43,5	37,1	20,0
2GPE COMPACT A/12	0,9+0,9	1,2+1,2		67,5	63,5	58,5	52,5	45,0	24,0

2GPE COMPACT B



Model	kW	HP	Q=Capacity							
			l/min	60	80	100	120	160	200	240
			m³/h	3,6	4,8	6,0	7,2	9,6	12,0	14,4
			H=Total Head [m]							
2GPE COMPACT B/12	0,9+0,9	1,2+1,2		47,5	46,0	43,5	41,5	35,2	27,6	18,0
2GPE COMPACT B/15	1,1+1,1	1,5+1,5		58,0	56,0	54,0	51,5	44,5	34,5	22,0

2GP(E) CVM

Booster sets with two vertical multi-stage pumps

Two CVM series pumps with self-ventilated 2-pole asynchronous motor, IE3 efficiency class for three phase motors starting from 0.75 kW. The system is equipped as standard with a control panel with alternating pump for the 2GPE version fitted with E-*drive* inverter and is designed for the installation of storage tanks (available on request).

Water supply for Building Service

Water supply for Industry

Irrigation

FIELD OF APPLICATION

- Maximum liquid temperature: 40°C
- Maximum operating pressure: 10 bar
- Water with maximum presence of solids: 50 ppm (particle size 0.1-0.25 mm or less), no gas or corrosive and aggressive substances
- Maximum chlorine content: 500 ppm
- Altitude not exceeding 1000 m a.s.l.;
- Humidity 50% without condensation
- Ambient protected against atmospheric agents.
  For more information refer to our **Data Book** on the website **www.ebaraeurope.com**

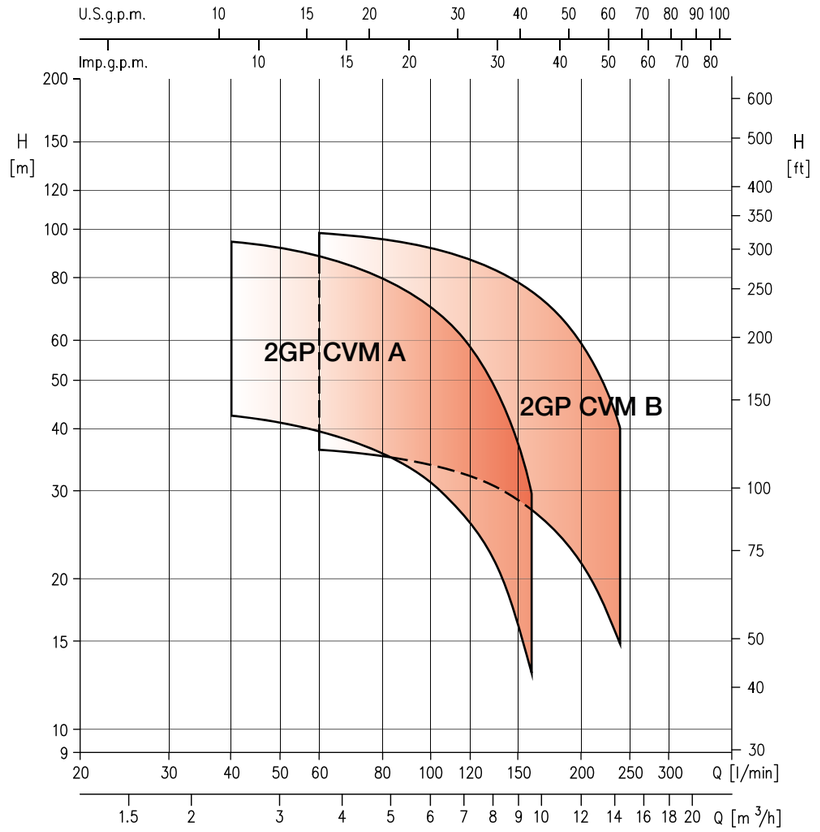
ELECTRIC PUMP MATERIALS

- Cast iron pump body and motor support
- External casing in AISI 304
- Impeller, stages and diffuser in glass fibre reinforced technopolymer impeller
- Shaft in AISI 416
- Mechanical seal in Ceramic/Carbon/EPDM

MOTOR TECHNICAL DATA

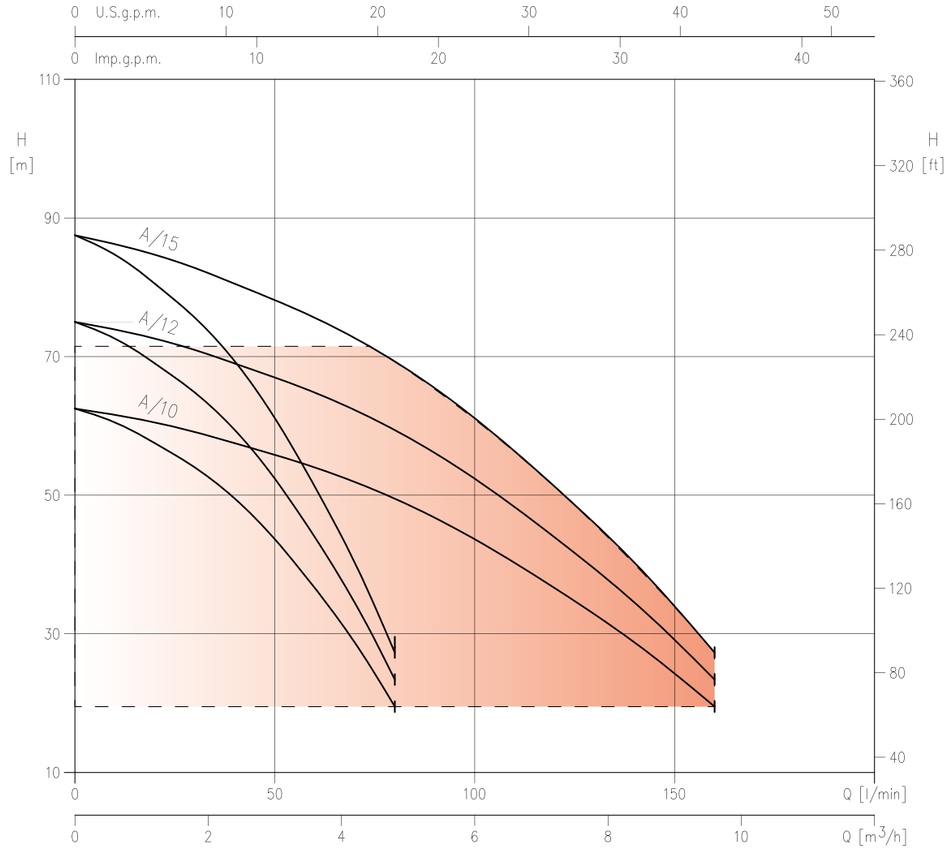
- IE3 motor starting from 0.75kW
- Self-ventilated 2-pole asynchronous motor
- Class of insulation F
- IP44 Protection degree
- Single-phase voltage 230V ±10% 50Hz,Three-phase voltage 230/400V ±10% 50Hz

2GP CVM



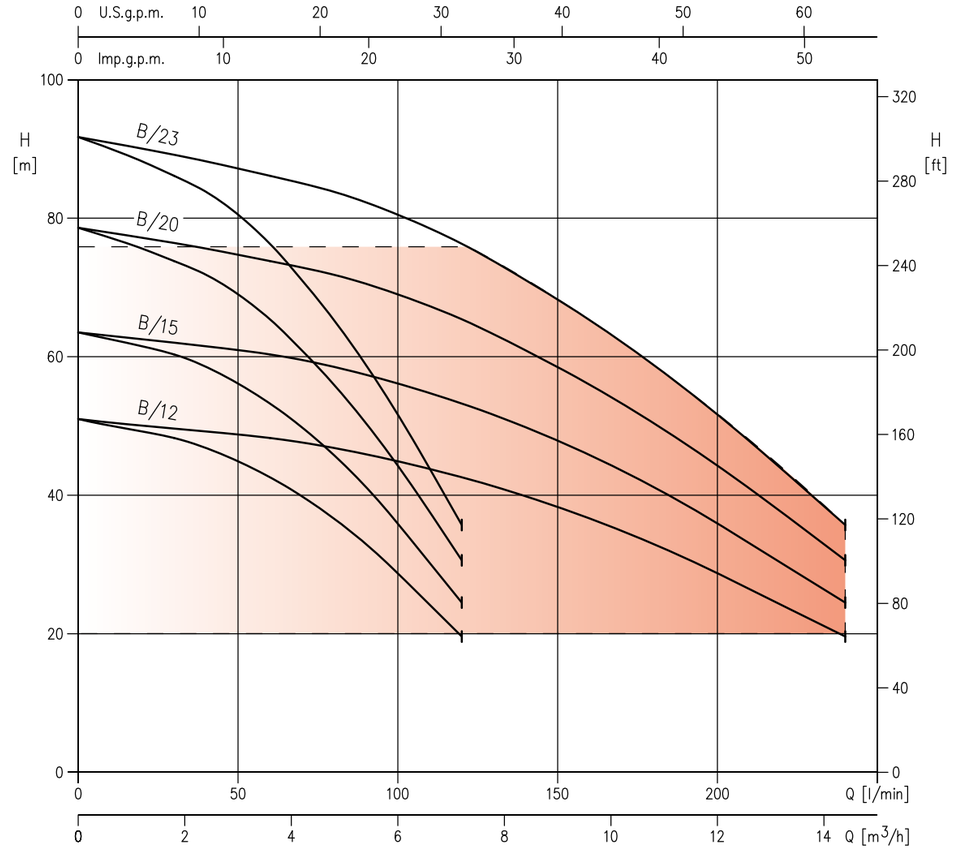
Model	kW	HP	Q=Capacity								
			l/min	40	60	80	100	120	160	200	240
			m³/h	2,4	3,6	4,8	6,0	7,2	9,6	12,0	14,4
			H=Total Head [m]								
2GP CVM A/8(M)	0,6+0,6	0,8+0,8		42,5	39,4	35,6	31,1	25,9	12,8	-	-
2GP CVM A/10(M)	0,75+0,75	1+1		57,5	54,0	49,5	43,5	36,6	19,5	-	-
2GP CVM A/12(M)	0,9+0,9	1,2+1,2		69,0	65,0	59,5	52,5	44,0	23,4	-	-
2GP CVM A/15(M)	1,1+1,1	1,5+1,5		80,5	75,5	69,5	61,0	51,0	27,3	-	-
2GP CVM A/18(M)	1,3+1,3	1,8+1,8		94,5	88,0	80,0	70,0	58,5	28,8	-	-
2GP CVM B/10(M)	0,75+0,75	1+1		-	36,2	35,1	33,7	32,0	27,5	21,6	14,7
2GP CVM B/12(M)	0,9+0,9	1,2+1,2		-	48,0	46,8	45,0	42,6	36,6	28,8	19,6
2GP CVM B/15(M)	1,1+1,1	1,5+1,5		-	60,5	58,5	56,2	53,3	45,8	36,0	24,5
2GP CVM B/20(M)	1,5+1,5	2+2		-	74,0	72,0	69,0	65,5	56,0	44,5	30,6
2GP CVM B/23(M)	1,7+1,7	2,3+2,3		-	86,0	84,0	80,5	76,5	65,5	51,5	35,7
2GP CVM B/25	1,85+1,85	2,5+2,5		-	98,5	96,0	92,0	87,0	74,5	59,0	41,0

2GPE CVM A



Model	kW	HP	Q=Capacity						
			l/min	40	60	80	100	120	160
			m³/h	2,4	3,6	4,8	6,0	7,2	9,6
			H=Total Head [m]						
2GPE CVM A/10	0,75+0,75	1+1		57,5	54,0	49,5	43,5	36,6	19,5
2GPE CVM A/12	0,9+0,9	1,2+1,2		69,0	65,0	59,5	52,5	44,0	23,4
2GPE CVM A/15	1,1+1,1	1,5+1,5		80,5	75,5	69,5	61,0	51,0	27,3

2GPE CVM B



Model	kW	HP	Q=Capacity							
			l/min	60	80	100	120	160	200	240
			m³/h	3,6	4,8	6,0	7,2	9,6	12,0	14,4
			H=Total Head [m]							
2GPE CVM B/12	0,9+0,9	1,2+1,2		48,0	46,8	45,0	42,6	36,6	28,8	19,6
2GPE CVM B/15	1,1+1,1	1,5+1,5		60,5	58,5	56,2	53,3	45,8	36,0	24,5
2GPE CVM B/20	1,5+1,5	2+2		74,0	72,0	69,0	65,5	56,0	44,5	30,6
2GPE CVM B/23	1,7+1,7	2,3+2,3		86,0	84,0	80,5	76,5	65,5	51,5	35,7

3GP(E) CVM

Booster sets with three vertical multi-stage pumps

Three CVM series pumps with self-ventilated 2-pole asynchronous motor, IE3 efficiency class for three phase motors starting from 0.75 kW. The system is equipped as standard with a control panel with alternating pump for the 3GPE version fitted with E-*drive* inverter and is designed for the installation of storage tanks (available on request).

Water Supply for Building Service

Water supply for Industry

Irrigation

FIELD OF APPLICATION

- Maximum liquid temperature: 40°C
- Maximum operating pressure: 10 bar
- Water with maximum presence of solids: 50 ppm (particle size 0.1-0.25 mm or less), no gas or corrosive and aggressive substances
- Maximum chlorine content: 500 ppm
- Altitude not exceeding 1000 m a.s.l.;
- Humidity 50% without condensation
- Ambient protected against atmospheric agents.
  For more information refer to our **Data Book** on the website **www.ebaraeurope.com**

ELECTRIC PUMP MATERIALS

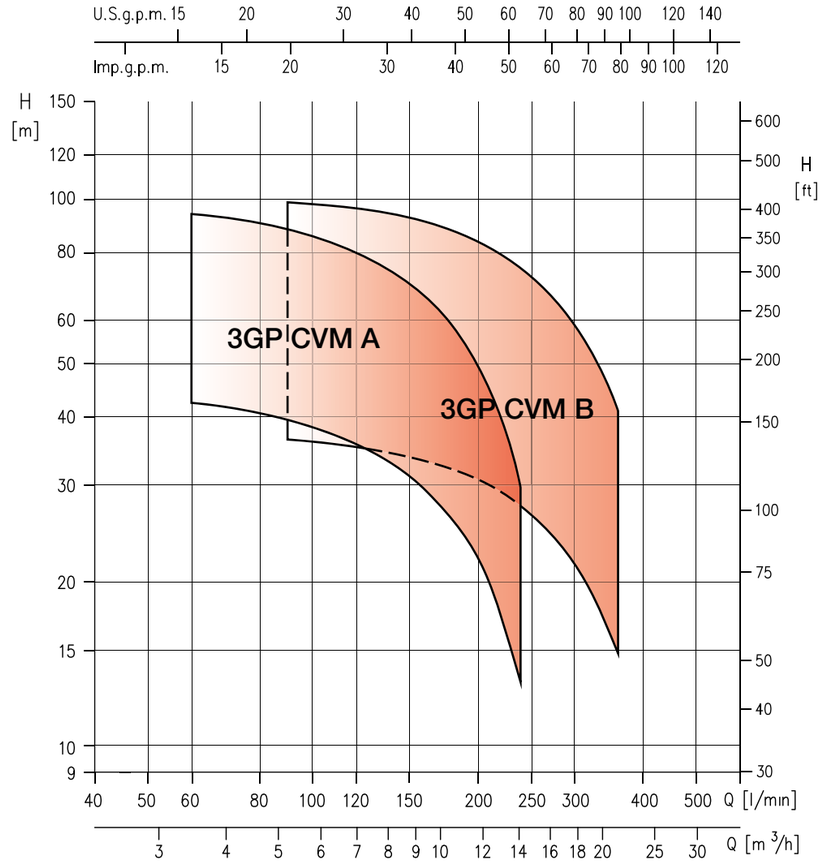
- Cast iron pump body and motor support
- External casing in AISI 304
- Impeller, stages and diffuser in glass fibre reinforced technopolymer impeller
- Shaft in AISI 416
- Mechanical seal in Ceramic/Carbon/EPDM

MOTOR TECHNICAL DATA

- IE3 motor starting from 0.75kW
- Self-ventilated 2-pole asynchronous motor
- Class of insulation F
- IP44 Protection degree
- 230/400V ±10% 50Hz three phase voltage

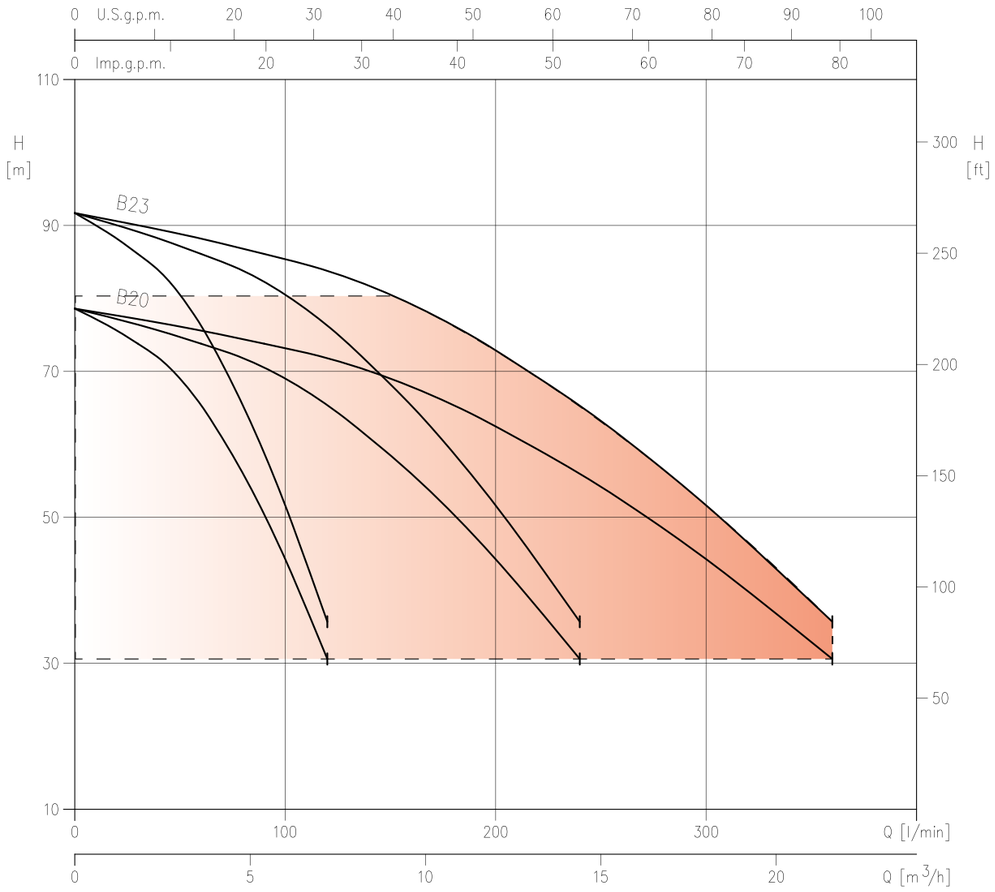
EBARA Pumps Europe

3GP CVM



Model	kW	HP	Q=Capacity							
			l/min	60	90	120	150	180	240	300	360
			m³/h	3,6	5,4	7,2	9,0	10,8	14,4	18,0	21,6
			H=Total Head [m]								
3GP CVM A/8	0,6+0,6+0,6	0,8+0,8+0,8		42,5	39,4	35,6	31,1	25,9	12,8	-	-
3GP CVM A/10	0,75+0,75+0,75	1+1+1		57,5	54,0	49,5	43,5	36,6	19,5	-	-
3GP CVM A/12	0,9+0,9+0,9	1,2+1,2+1,2		69,0	65,0	59,5	52,5	44,0	23,4	-	-
3GP CVM A/15	1,1+1,1+1,1	1,5+1,5+1,5		80,5	75,5	69,5	61,0	51,0	27,3	-	-
3GP CVM A/18	1,3+1,3+1,3	1,8+1,8+1,8		94,5	88,0	80,0	70,0	58,5	28,8	-	-
3GP CVM B/10	0,75+0,75+0,75	1+1+1		-	36,2	35,1	33,7	32,0	27,5	21,6	14,7
3GP CVM B/12	0,9+0,9+0,9	1,2+1,2+1,2		-	48,0	46,8	45,0	42,6	36,6	28,8	19,6
3GP CVM B/15	1,1+1,1+1,1	1,5+1,5+1,5		-	60,5	58,5	56,2	53,3	45,8	36,0	24,5
3GP CVM B/20	1,5+1,5+1,5	2+2+2		-	74,0	72,0	69,0	65,5	56,0	44,5	30,6
3GP CVM B/23	1,7+1,7+1,7	2,3+2,3+2,3		-	86,0	84,0	80,5	76,5	65,5	51,5	35,7
3GP CVM B/25	1,85+1,85+1,85	2,5+2,5+2,5		-	98,5	96,0	92,0	87,0	74,5	59,0	41,0

3GPE CVM



Model	kW	HP	Q=Capacity							
			l/min	90	120	150	180	240	300	360
			m³/h	5,4	7,2	9,0	10,8	14,4	18,0	21,6
			H=Total Head [m]							
3GPE CVM B/20	1,5+1,5+1,5	2+2+2		74,0	72,0	69,0	65,5	56,0	44,5	30,6
3GPE CVM B/23	1,7+1,7+1,7	2,3+2,3+2,3		86,0	84,0	80,5	76,5	65,5	51,5	35,7

2GP(E) MATRIX

Booster sets with two horizontal multi-stage pumps with stainless steel hydraulics

Two MATRIX series pumps with self-ventilated 2-pole asynchronous motor, IE3 efficiency class for three phase motors starting from 0.75 kW. The system is equipped as standard with a control panel with alternating pump for the 2GPE version fitted with E-power or Hydrocontroller inverter and is request).

Water supply for Building Service

Water supply for Industry

Irrigation

FIELD OF APPLICATION

- Maximum liquid temperature: 50°C for 2GP MATRIX, 40°C for 2GPE MATRIX
- Maximum operating pressure: 10 bar
- Water with maximum presence of solids: 50 ppm (particle size 0.1-0.25 mm or less), no gas or corrosive and aggressive substances
- Maximum chlorine content: 500 ppm
- Altitude not exceeding 1000 m a.s.l.;
- Humidity 50% without condensation
- Ambient protected against atmospheric agents.

For more information refer to our **Data Book** on the website **www.ebaraeurope.com**

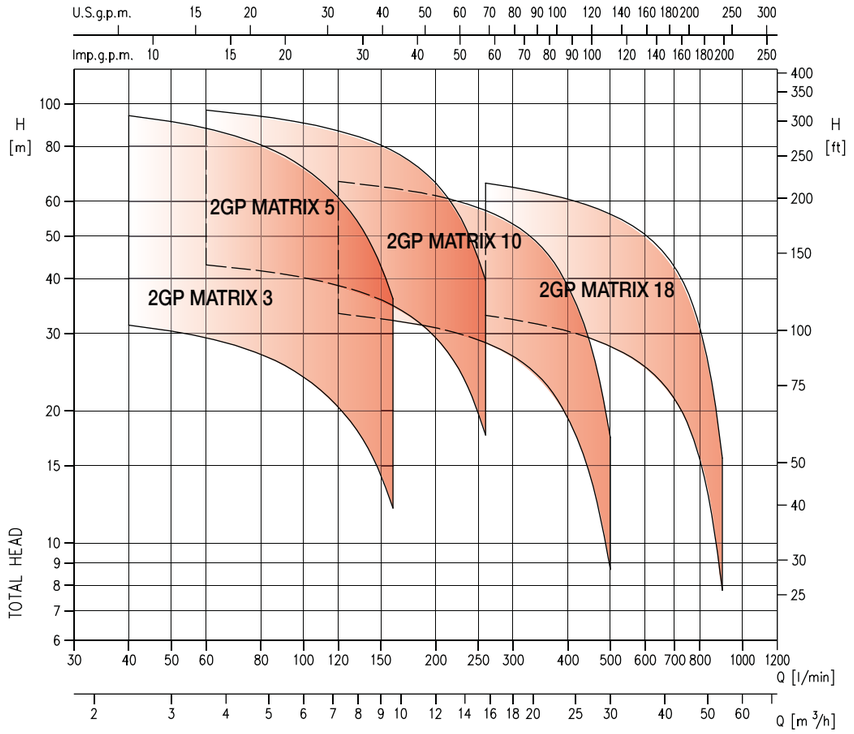
ELECTRIC PUMP MATERIALS

- Pump body, impeller and shaft in AISI 304
- Mechanical seal in Ceramic/Carbon/EPDM

MOTOR TECHNICAL DATA

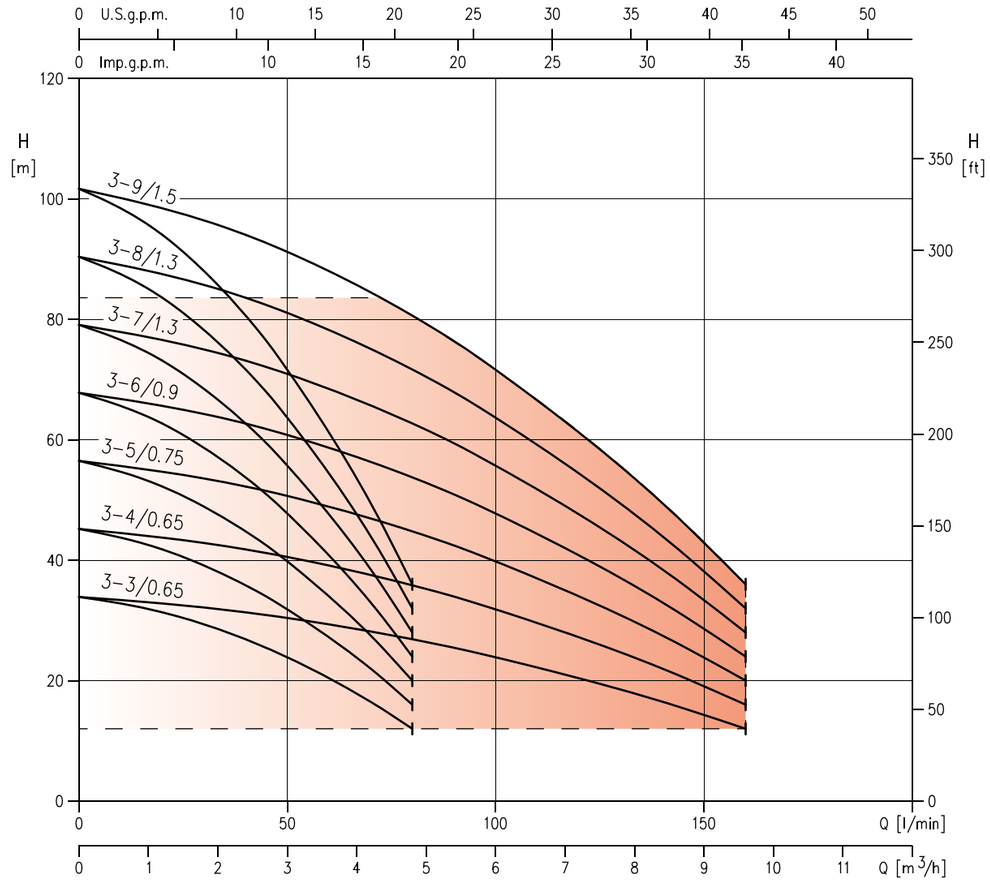
- IE3 motor starting from 0.75kW
- Self-ventilated 2-pole asynchronous motor
- Class of insulation F
- IP44 Protection degree
- Single-phase voltage 230V ±10% 50Hz,Three-phase voltage 230/400V ±10% 50Hz

2GP MATRIX



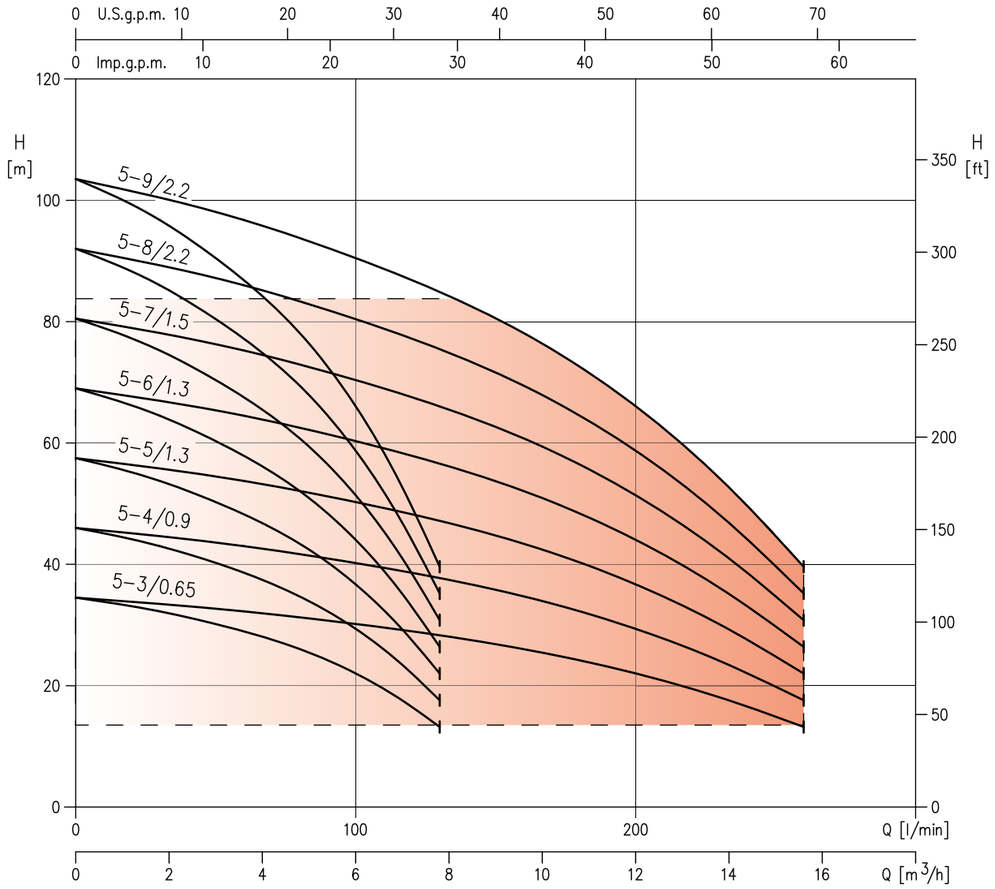
Model	HP	kW	Q=Capacity								
			l/min	40	60	120	160	260	320	500	600	900
			m³/h	2,4	3,6	7,2	9,6	15,6	19,2	30,0	36,0	54,0
			H=Total Head [m]									
2GP MATRIX 3-4T/0,65 (M)	0,9+0,9	0,65+0,65		42,0	39,1	27,2	16,0	-	-	-	-	-
2GP MATRIX 3-5T/0,75 (M)	1+1	0,75+0,75		52,5	49,0	34,0	20,0	-	-	-	-	-
2GP MATRIX 3-6T/0,9 (M)	1,2+1,2	0,9+0,9		62,5	58,5	41,0	24,0	-	-	-	-	-
2GP MATRIX 3-7T/1,3 (M)	1,8+1,8	1,3+1,3		73,0	68,5	47,5	28,0	-	-	-	-	-
2GP MATRIX 3-8T/1,3 (M)	1,8+1,8	1,3+1,3		83,5	78,0	54,5	32,0	-	-	-	-	-
2GP MATRIX 3-9T/1,5 (M)	2+2	1,5+1,5		94,0	88,0	61,0	36,0	-	-	-	-	-
2GP MATRIX 5-4T/0,9 (M)	1,2+1,2	0,9+0,9		-	43,0	38,6	34,7	17,6	-	-	-	-
2GP MATRIX 5-5T/1,3 (M)	1,8+1,8	1,3+1,3		-	54,0	48,5	43,5	22,0	-	-	-	-
2GP MATRIX 5-6T/1,3 (M)	1,8+1,8	1,3+1,3		-	64,5	58,0	52,0	26,4	-	-	-	-
2GP MATRIX 5-7T/1,5 (M)	2+2	1,5+1,5		-	75,5	67,5	61,0	30,8	-	-	-	-
2GP MATRIX 5-8T/2,2 (M)	3+3	2,2+2,2		-	86,0	77,0	69,5	35,2	-	-	-	-
2GP MATRIX 5-9T/2,2 (M)	3+3	2,2+2,2		-	97,0	87,0	78,0	39,6	-	-	-	-
2GP MATRIX 10-3T/1,3 (M)	1,8+1,8	1,3+1,3		-	-	33,3	32,1	28,6	25,5	8,7	-	-
2GP MATRIX 10-4T/1,5 (M)	2+2	1,5+1,5		-	-	44,5	43,0	38,1	34,0	11,6	-	-
2GP MATRIX 10-5T/2,2 (M)	3+3	2,2+2,2		-	-	55,5	53,5	47,5	42,5	14,5	-	-
2GP MATRIX 10-6T/2,2 (M)	3+3	2,2+2,2		-	-	66,5	64,5	57,0	51,0	17,4	-	-
2GP MATRIX 18-3T/2,2 (M)	3+3	2,2+2,2		-	-	-	-	33,0	31,9	28,1	25,2	7,8
2GP MATRIX 18-4T/3	4+4	3+3		-	-	-	-	44,0	42,5	37,4	33,6	10,4
2GP MATRIX 18-5T/4	5,5+5,5	4+4		-	-	-	-	55,0	53,0	47,0	42,0	13,0
2GP MATRIX 18-6T/4	5,5+5,5	4+4		-	-	-	-	66,0	64,0	56,0	50,5	15,6

2GPE MATRIX 3



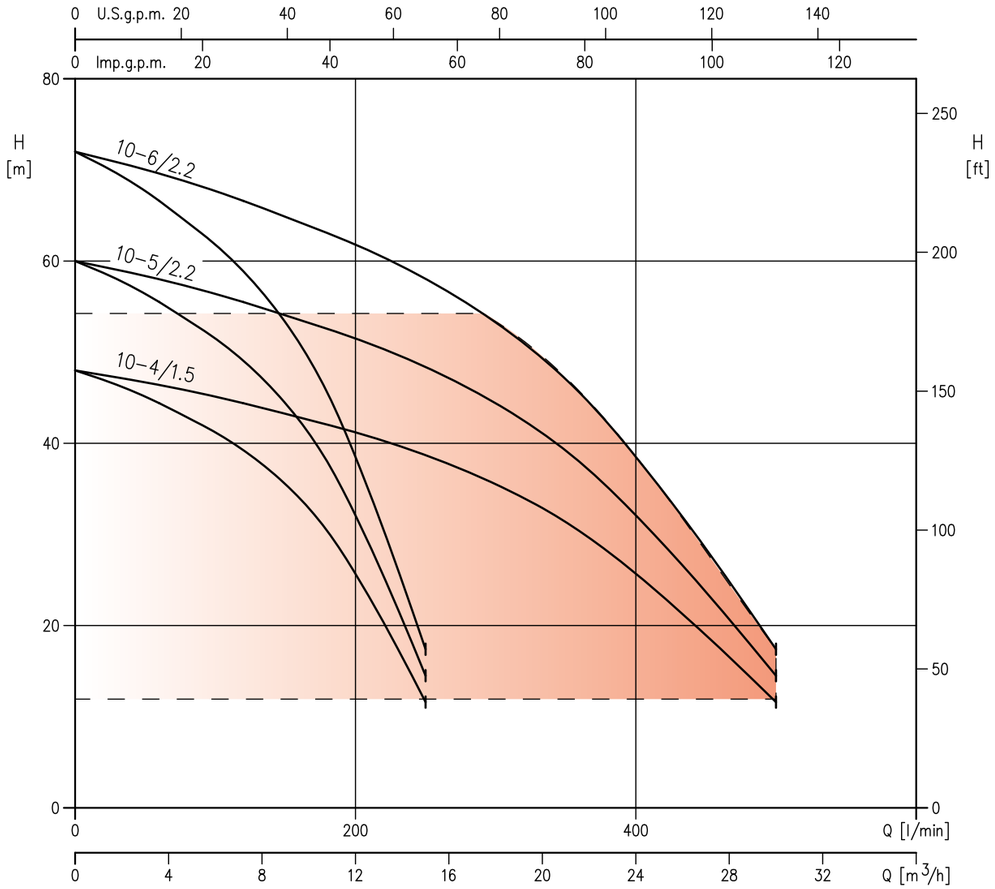
Model	HP	kW	Q=Capacity					
			l/min	40	60	90	120	160
			m³/h	2,4	3,6	5,4	7,2	9,6
			H=Total Head [m]					
2GPE MATRIX 3-3T/0,65	0,9+0,9	0,65+0,65		31,4	29,3	25,5	20,4	12,0
2GPE MATRIX 3-4T/0,65	0,9+0,9	0,65+0,65		42,0	39,1	34,0	27,2	16,0
2GPE MATRIX 3-5T/0,75	1+1	0,75+0,75		52,5	49,0	42,5	34,0	20,0
2GPE MATRIX 3-6T/0,9	1,2+1,2	0,9+0,9		62,5	58,5	51,0	41,0	24,0
2GPE MATRIX 3-7T/1,3	1,8+1,8	1,3+1,3		73,0	68,5	59,5	47,5	28,0
2GPE MATRIX 3-8T/1,3	1,8+1,8	1,3+1,3		83,5	78,0	68,0	54,5	32,0
2GPE MATRIX 3-9T/1,5	2+2	1,5+1,5		94,0	88,0	76,5	61,0	36,0

2GPE MATRIX 5



Model	HP	kW	Q=Capacity						
			l/min	60	90	120	160	200	260
			m³/h	3,6	5,4	7,2	9,6	12,0	15,6
			H=Total Head [m]						
2GPE MATRIX 5-3T/0,65	0,9+0,9	0,65+0,65		32,3	30,7	29,0	26,0	22,0	13,2
2GPE MATRIX 5-4T/0,9	1,2+1,2	0,9+0,9		43,0	41,0	38,6	34,7	29,4	17,6
2GPE MATRIX 5-5T/1,3	1,8+1,8	1,3+1,3		54,0	51,0	48,5	43,5	36,7	22,0
2GPE MATRIX 5-6T/1,3	1,8+1,8	1,3+1,3		64,5	61,5	58,0	52,0	44,0	26,4
2GPE MATRIX 5-7T/1,5	2+2	1,5+1,5		75,5	72,0	67,5	61,0	51,5	30,8
2GPE MATRIX 5-8T/2,2	3+3	2,2+2,2		86,0	82,0	77,0	69,5	58,5	35,2
2GPE MATRIX 5-9T/2,2	3+3	2,2+2,2		97,0	92,0	87,0	78,0	66,0	39,6

2GPE MATRIX 10



Model	HP	kW	Q=Capacity						
			l/min	120	160	200	260	320	400	500
			m³/h	7,2	9,6	12	15,6	19,2	24	30
			H=Total Head [m]							
2GPE MATRIX 10-4T/1,5	2+2	1,5+1,5		44,5	43,0	41,0	38,1	34,0	25,7	11,6
2GPE MATRIX 10-5T/2,2	3+3	2,2+2,2		55,5	53,5	51,5	47,5	42,5	32,1	14,5
2GPE MATRIX 10-6T/2,2	3+3	2,2+2,2		66,5	64,5	62,0	57,0	51,0	38,5	17,4

2GP(E) EVMSG

Booster sets with two vertical multi-stage pumps with stainless steel hydraulics with standardised motor

Two EVMSG series pumps with self-ventilated 2-pole asynchronous motor, IE3 efficiency class for three phase motors starting from 0.75 kW. The system is equipped as standard with a control panel with alternating pump for the 2GPE version fitted with E-*drive*, E-power or Hydrocontroller inverter and is designed for the installation of storage tanks (available on request).

Water supply for Building Service

Water supply for Industry

Irrigation

FIELD OF APPLICATION

- Maximum liquid temperature: 50°C, 40°C for 2GPE with E-power and Hydrocontroller
- Maximum operating pressure: 16 bar, 12 bar for 2GPE with E-power and Hydrocontroller
- Water with maximum presence of solids: 50 ppm (particle size 0.1-0.25 mm or less), no gas or corrosive and aggressive substances
- Maximum chlorine content: 500 ppm
- Altitude not exceeding 1000 m a.s.l.;
- Humidity 50% without condensation
- Ambient protected against atmospheric agents.

For more information refer to our **Data Book** on the website **www.ebaraeurope.com**

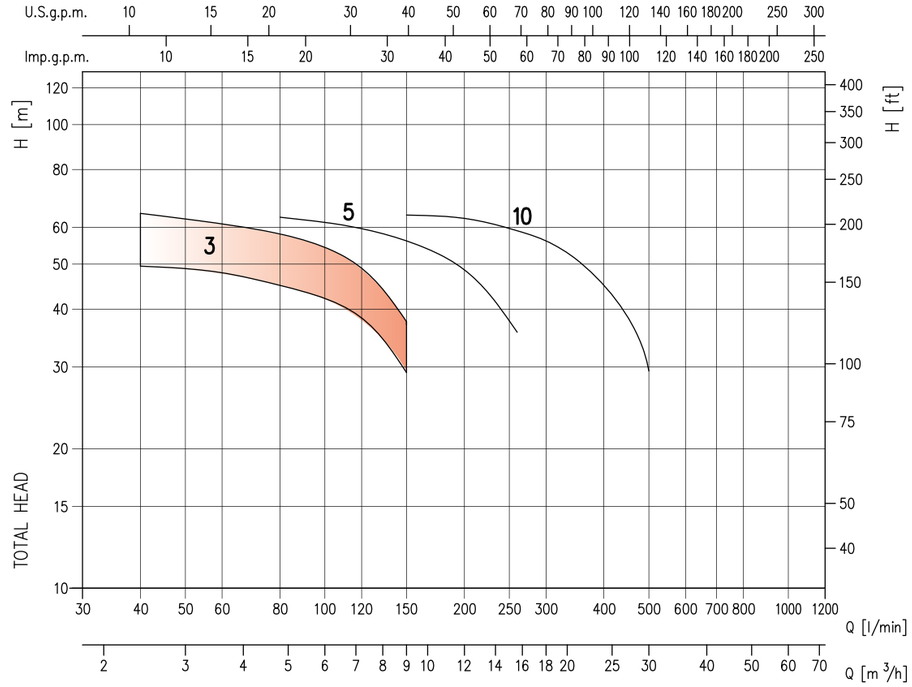
ELECTRIC PUMP MATERIALS

- Cast iron pump body
- Impeller and shaft in AISI 304
- Cast iron motor bracket

MOTOR TECHNICAL DATA

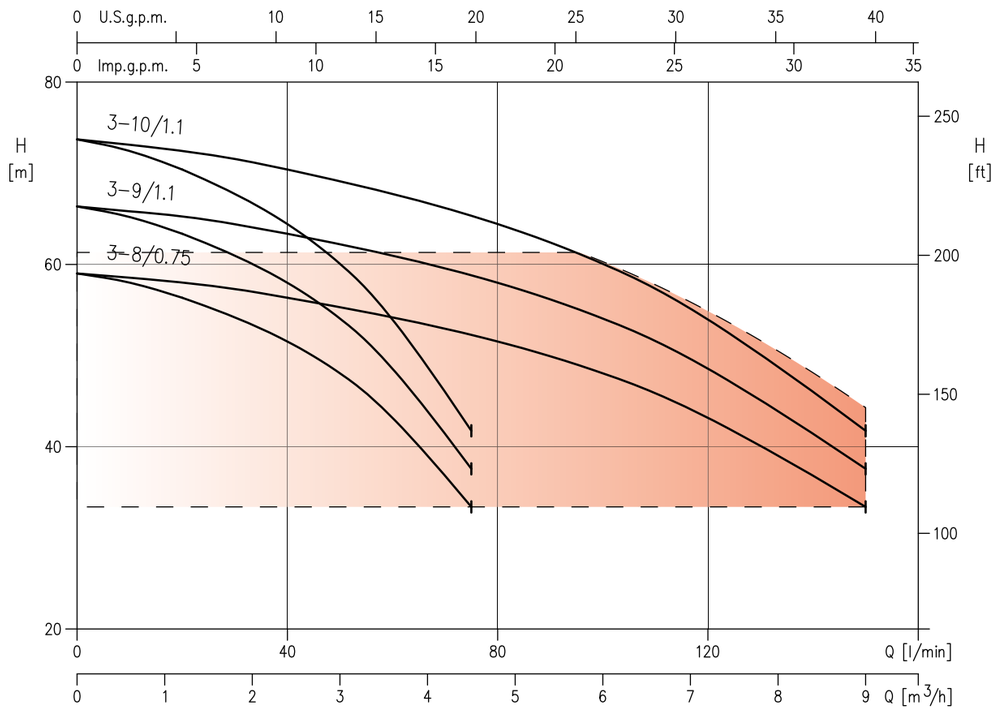
- IE3 motor starting from 0.75kW
- Self-ventilated 2-pole asynchronous motor
- Class of insulation F
- IP55 protection degree
- Single-phase 230V±10% voltage three phase 230/400V ±10% (up to 4 kW) three phase 400/690 ±10% (starting from 5.5 kW)

2GP EVMSG 3-5-10



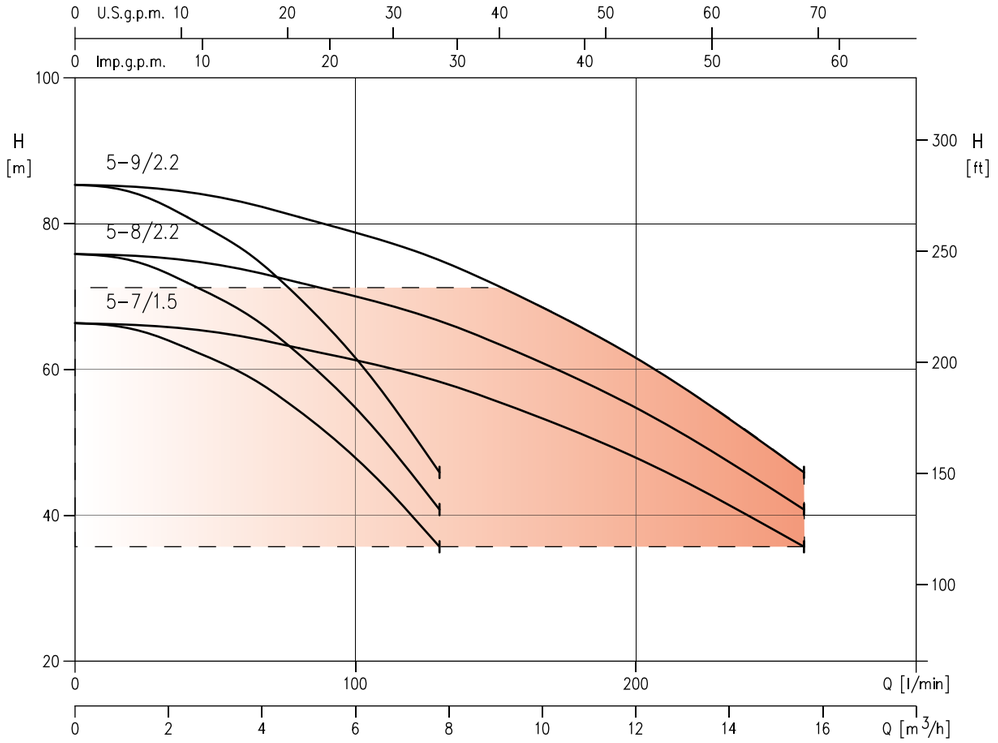
Model	kW	HP	Q=Capacity										
			l/min	40	60	80	120	150	200	260	300	360	400	500
			m³/h	2,4	3,6	4,8	7,2	9,0	12,0	15,6	18	21,6	24	30
			H=Total Head [m]											
2GP EVMSG3 7/0.75 (M)	0,75+0,75	1+1		49,5	47,5	45	38,3	29,2	-	-	-	-	-	-
2GP EVMSG3 9/1.1 (M)	1,1+1,1	1,5+1,5		63,5	61	58	49	37,6	-	-	-	-	-	-
2GP EVMSG5 7/1.5	1,5+1,5	2+2		-	-	63	59,5	56	48,5	35,7	-	-	-	-
2GP EVMSG10 6/2.2	2,2+2,2	3+3		-	-	-	-	63,5	62,5	59	56	50	45	29,5

2GPE EVMSG 3



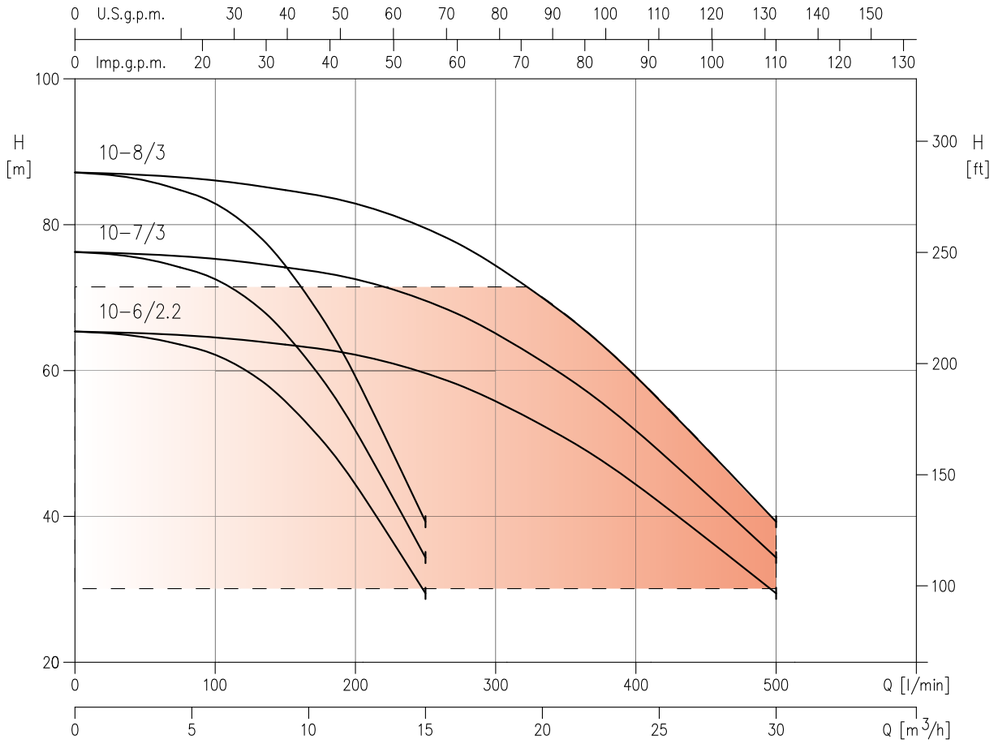
Model	kW	HP	Q=Capacity					
			l/min	40	60	80	120	150
			m³/h	2,4	3,6	4,8	7,2	9,0
				H=Head [m]				
2GPE EVMSG3 8/0.75	0,75+0,75	1+1		56,5	54,5	51,5	44	33,4
2GPE EVMSG3 9/1.1	1,1+1,1	1,5+1,5		63,5	61	58	49	37,6
2GPE EVMSG3 10/1.1	1,1+1,1	1,5+1,5		70,5	68	64,5	54,5	41,5

2GPE EVMSG 5



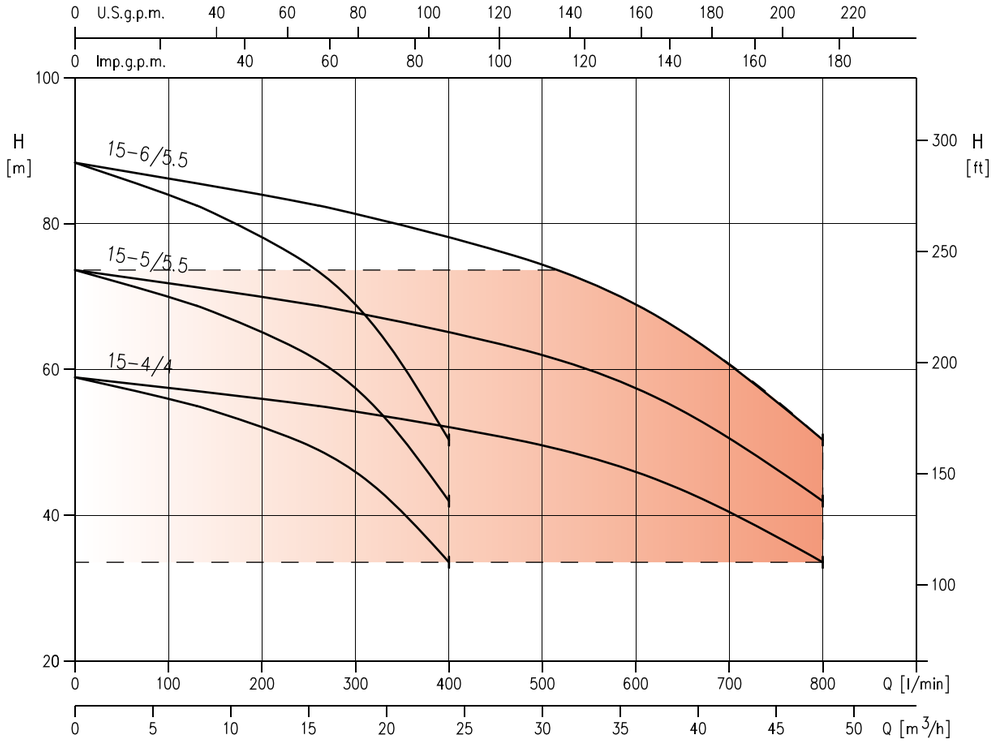
Model	kW	HP	Q=Capacity					
			l/min	80	120	150	200	260
			m³/h	4,8	7,2	9,0	12,0	15,6
				H=Head [m]				
2GPE EVMSG5 7/1.5	1,5+1,5	2+2		63	59,5	56	48,5	35,7
2GPE EVMSG5 8/2.2	2,2+2,2	3+3		72	68	64	55	41
2GPE EVMSG5 9/2.2	2,2+2,2	3+3		81	77	72	62	46

2GPE EVMSG 10



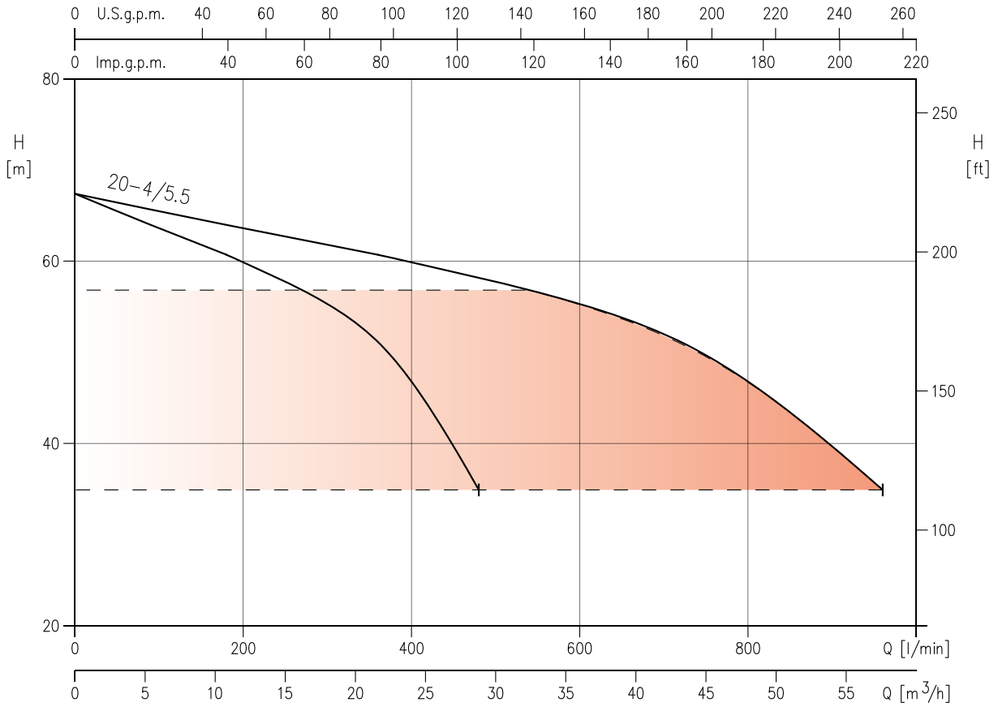
Model	kW	HP	Q=Capacity l/min	150	200	260	300	360	400	500
			m³/h	9,0	12,0	15,6	18,0	21,6	24,0	30,0
			H=Total Head [m]							
2GPE EVMSG10 6/2.2	2,2+2,2	3+3		63,5	62,5	59	56	50	45	29,5
2GPE EVMSG10 7/3.0	3,0+3,0	4+4		74	73	69	65,5	58	52	34,4
2GPE EVMSG10 8/3.0	3,0+3,0	4+4		84,5	83,5	79	74,5	66,5	59,5	39,3

2GPE EVMSG 15



Model	kW	HP	Q=Capacity l/min	260	300	360	400	500	600	700	800
			m³/h	15,6	18,0	21,6	24,0	30,0	36,0	42,0	48,0
			H=Total Head [m]								
2GPE EVMSG15 4/4.0	4,0+4,0	5,5+5,5		55	54,5	53	52	50	46,5	41	33,6
2GPE EVMSG15 5/5.5	5,5+5,5	7,5+7,5		69	68	66	65	62	58	51	42
2GPE EVMSG15 6/5.5	5,5+5,5	7,5+7,5		82,5	81,5	79,5	78	74,5	69,5	61	50,5

2GPE EVMSG 20



Model	kW	HP	Q=Capacity								
			l/min	360	400	500	600	700	800	900	960
			m³/h	21,6	24,0	30,0	36,0	42,0	48,0	54,0	57,6
			H=Total Head [m]								
2GPE EVMSG20 4/5.5	5,5+5,5	7,5+7,5		61	60	58	55,4	52,3	47,3	39,8	34,9

3GP(E) EVMSG

Booster sets with three vertical multi-stage pumps with stainless steel with standardised motor

Three EVMSG series pumps with self-ventilated 2-pole asynchronous motor, IE3 efficiency class for three phase motors starting from 0.75 kW. The system is equipped as standard with a control panel with alternating pump for the 3GPE version fitted with E-*drive* inverter and is designed for the installation of storage tanks (available on request).

Water supply for Building Service

Water supply for Industry

Irrigation

FIELD OF APPLICATION

- Maximum liquid temperature: 50°C
- Maximum operating pressure: 16 bar
- Water with maximum presence of solids: 50 ppm (particle size 0.1-0.25 mm or less), no gas or corrosive and aggressive substances
- Maximum chlorine content: 500 ppm
- Altitude not exceeding 1000 m a.s.l.;
- Humidity 50% without condensation
- Ambient protected against atmospheric agents.

For more information refer to our **Data Book** on the website **www.ebaraeurope.com**

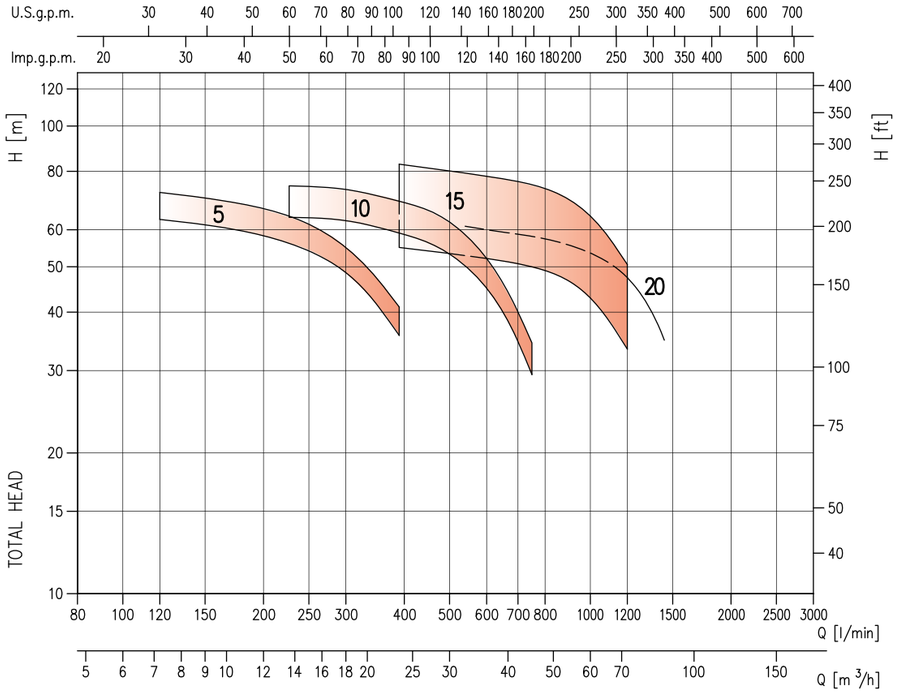
ELECTRIC PUMP MATERIALS

- Cast iron pump body
- Impeller and shaft in AISI 304
- Cast iron motor bracket

MOTOR TECHNICAL DATA

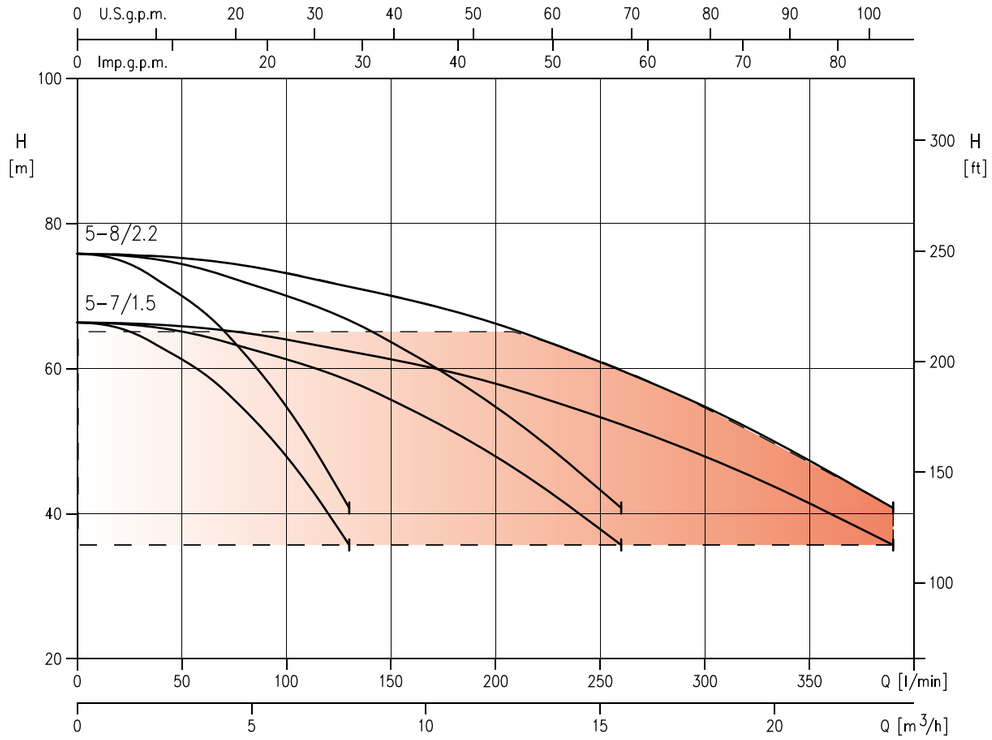
- IE3 motor starting from 0.75kW
- Self-ventilated 2-pole asynchronous motor
- Class of insulation F
- IP55 protection degree
- Three-phase voltage 230/400V ±10% (up to 4 kW) three phase 400/690 ±10% (starting from 5.5 kW)

3GP EVMSG 5-10-15-20



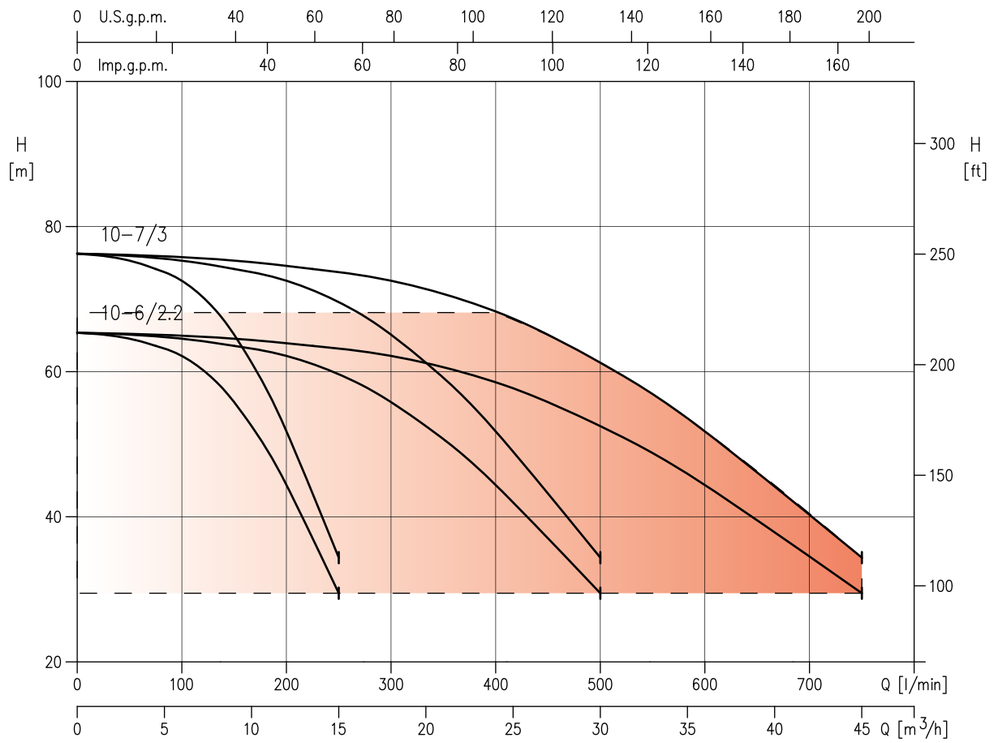
Model	kW	HP	Q=Capacity															
			l/min	120	180	225	300	390	450	540	600	750	900	1050	1200	1350	1440
			m³/h	7,2	10,8	13,5	18,0	23,4	27,0	32,4	36,0	45,0	54,0	63,0	72,0	81,0	86,4
			H=Total Head [m]														
3GP EVMSG5 7/1.5	1,5+1,5+1,5	2+2+2		63	59,5	56	48,5	35,7	-	-	-	-	-	-	-	-	-
3GP EVMSG5 8/2.2	2,2+2,2+2,2	3+3+3		72	68	64	55	41	-	-	-	-	-	-	-	-	-
3GP EVMSG10 6/2.2	2,2+2,2+2,2	3+3+3		-	-	63,5	62,5	59	56	50	45	29,5	-	-	-	-	-
3GP EVMSG10 7/3.0	3,0+3,0+3,0	4+4+4		-	-	74	73	69	65,5	58	52	34,4	-	-	-	-	-
3GP EVMSG15 4/4.0	4,0+4,0+4,0	5,5+5,5+5,5		-	-	-	-	55	54,5	53	52	50	46,5	41	33,6	-	-
3GP EVMSG15 5/5.5	5,5+5,5+5,5	7,5+7,5+7,5		-	-	-	-	69	68	66	65	62	58	51	42	-	-
3GP EVMSG15 6/5.5	5,5+5,5+5,5	7,5+7,5+7,5		-	-	-	-	82,5	81,5	79,5	78	74,5	69,5	61	50,5	-	-
3GP EVMSG20 4/5.5	5,5+5,5+5,5	7,5+7,5+7,5		-	-	-	-	-	-	61	60	58	55,4	52,3	47,3	39,8	34,9

3GPE EVMSG 5



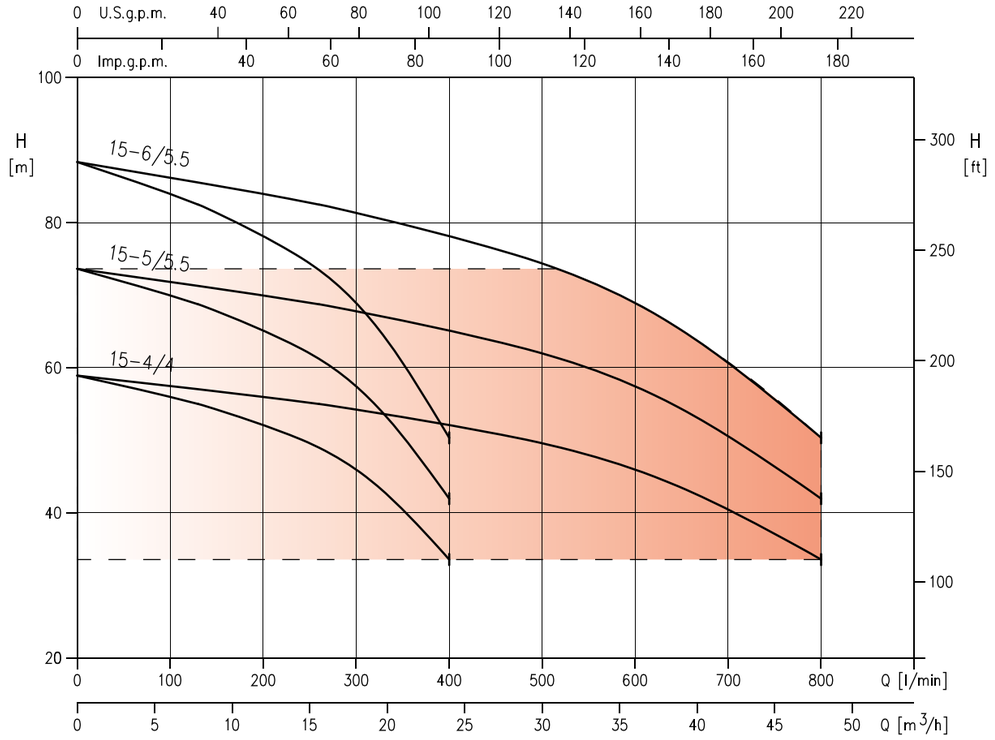
Model	kW	HP	Q=Capacity					
			l/min	120	180	225	300	390
			m³/h	7,2	10,8	13,5	18,0	23,4
			H=Total Head [m]					
3GPE EVMSG5 7/1.5	1,5+1,5+1,5	2+2+2		63	59,5	56	48,5	35,7
3GPE EVMSG5 8/2.2	2,2+2,2+2,2	3+3+3		72	68	64	55	41

3GPE EVMSG 10



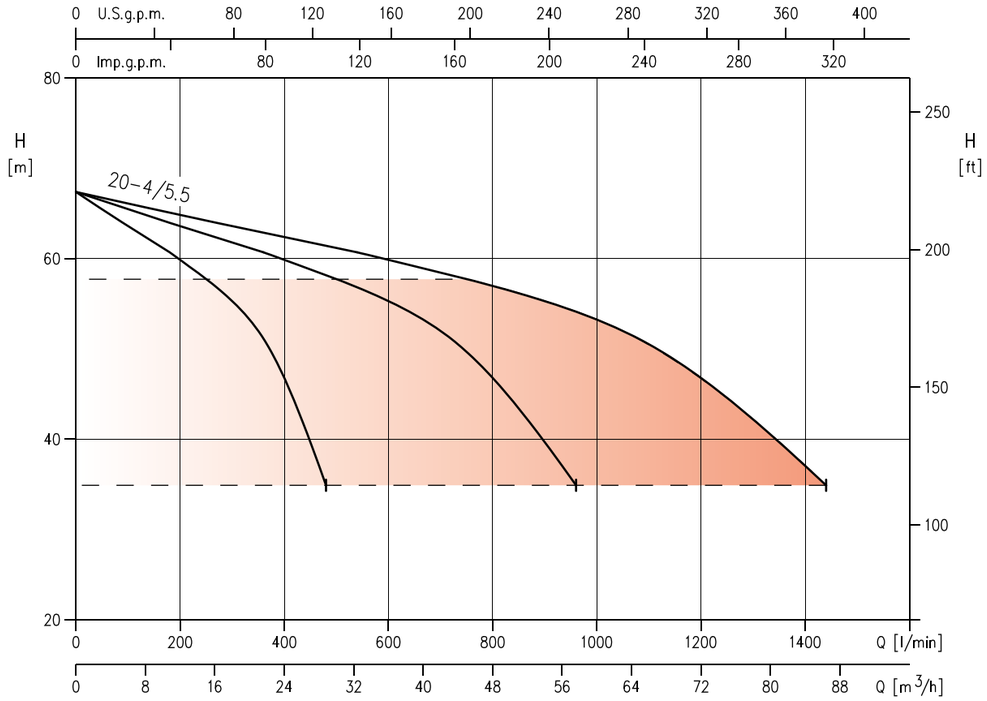
Model	kW	HP	Q=Capacity							
			l/min	225	300	390	450	540	600	750
			m³/h	13,5	18,0	23,4	27,0	32,4	36,0	45,0
			H=Total Head [m]							
3GPE EVMSG10 6/2.2	2,2+2,2+2,2	3+3+3		63,5	62,5	59	56	50	45	29,5
3GPE EVMSG10 7/3.0	3,0+3,0+3,0	4+4+4		74	73	69	65,5	58	52	34,4

3GPE EVMSG 15



Model	kW	HP	Q=Capacity								
			l/min	390	450	540	600	750	900	1050	1200
			m³/h	23,4	27,0	32,4	36,0	45,0	54,0	63,0	72,0
			H=Total Head [m]								
3GPE EVMSG15 4/4.0	4,0+4,0+4,0	5,5+5,5+5,5		55	54,5	53	52	50	46,5	41	33,6
3GPE EVMSG15 5/5.5	5,5+5,5+5,5	7,5+7,5+7,5		69	68	66	65	62	58	51	42
3GPE EVMSG15 6/5.5	5,5+5,5+5,5	7,5+7,5+7,5		82,5	81,5	79,5	78	74,5	69,5	61	50,5

3GPE EVMSG 20



Model	kW	HP	Q=Capacity								
			l/min	540	600	750	900	1050	1200	1350	1440
			m³/h	32,4	36,0	45,0	54,0	63,0	72,0	81,0	86,4
			H=Total Head [m]								
3GPE EVMSG20 4/5,5	5,5+5,5+5,5	7,5+7,5+7,5		61	60	58	55,4	52,3	47,3	39,8	34,9

A driver for your system

Pressure or temperature variations, as well as the variation in the demand for water itself, are situations that commonly occur in water systems, whether they are civil pressurisation systems or related to irrigation or industrial uses.
Responding promptly to these variations by linking the operation of the pressurisation group to these events means **improving the efficiency and reliability of the entire system.**
To do this, **different types of inverters** are available that offer different modes of operation of the group ensuring **optimal operation.**
The options available for the groups are: E-*drive*, E-power and Hydrocontroller

E-*drive*

E-*drive* is an inverter with air cooling, to be installed directly on the motor pump, designed to control the start and stop of the pump and to adjust the motor revolutions.

High overall efficiency of the system

Flexible and **versatile** solution depending on the system.

Remote operation control, either using the ModBus communication protocol, or via the analogue 0-10V and digital analog inputs provided as standard.
This makes it a product that is **compatible with the most modern and cutting-edge systems**, in which the interconnection of the various devices is frequently requested

SOFT START and SOFT STOP: ensures starting and stopping controlled by the motor, **increasing reliability and efficiency**.

It offers a multitude of standard controls, which **protect the entire electric pump** system: protection against dry running , overcurrent, overvoltage, undervoltage, P_{max}protection, P_{min}protection, etc.

E-power

E-power is a water-flow inverter for control of the electric pumps. It allows starting and stopping and checks the motor rpm. The main features available are:

- It has the master-slave function for creating groups of up to 2 pumps
- It allows numerous protections with programmable automatic reset
- It allows the reduction of water hammer, offering a gradual start and stop of the electric pumps
- Fast commissioning: thanks to the reduced parameters to be set, installation is made easier

Hydrocontroller

Hydrocontroller is a water passage electronic device for controlling the starting and stopping of the electric pump. Thanks to the inverter technology on which it is based, it also allows motor speed control. It can be used for pressurisation groups of up to 8 electric pumps. it offers the typical advantages of inverter systems, such as:

- Master-slave operation of up to 8 electric pumps
- Quick and easy programming
- Output relays for alarm signal or second pump control
- It allows the reduction of water hammer, offering a gradual start and stop of the electric pumps
- Several guards with programmable automatic reset

EBARA Pumps Europe

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It is the ultimate tool to find and select the right product for your needs.
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479705615 05/18