



EBARA

Looking ahead,
going beyond expectations

Ahead  *Beyond*

Japanese Technology since 1912

Vertical Multistage Pumps

Model **EVMS**

Sizes 1,3,5,10,15,20,32,45,64,90



 **AS/NZS 4020**
Approved for drinking water

www.ebara.com.au

Main product features

1



Innovative hydraulic solutions

Any motor ■ Anywhere

- Unique patented impeller design greatly reduces axial thrust
- Standard commercial motors can be fitted to all pump models due to the low thrust
- Long life of the motor bearings
- High pump efficiencies achieved

2



Energy saving

- High intuitive and User-Friendly inverter, model ESPD+(Plus)
- IE3 motors fitted as standard
- High pump efficiency with MEI (Minimum efficiency index) > 0.7

3

Piping connection options

- Various pipe connections that meet many of the common market installation dimensions
- Able to select the most suitable connections for an application or replacement in an existing installation

Material	Round flange DIN	Loose flange DIN	Oval flange	Victaulic®
AISI304 AISI316				
Cast SS ASTM CF8 ASTM CF8M				
Cast Iron				

4



Shaft seal solutions

• Shaft seal material:

B : Resin impregnated carbon graphite

Q₇ & Q₁ : Sintered silicon carbide

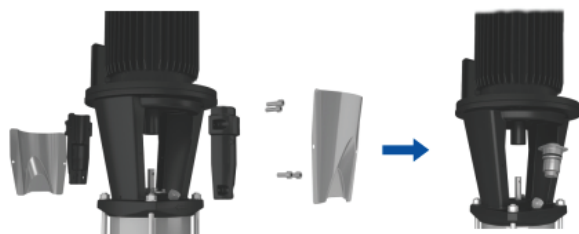
Q₉ : Silicon carbide with carbon graphite

E : EPDM

V : FPM (Viton)

- Conforming to EN12756 (ex DIN 24960)

5



Easy maintenance

- The cartridge shaft seal enables easy replacement
- The spacer coupling allows for easy maintenance without having to lift heavy motors 5.5 kW & above

6

Smart plug solutions



Fitting of
commercial sensor



Combination priming
& ventilation plug

7

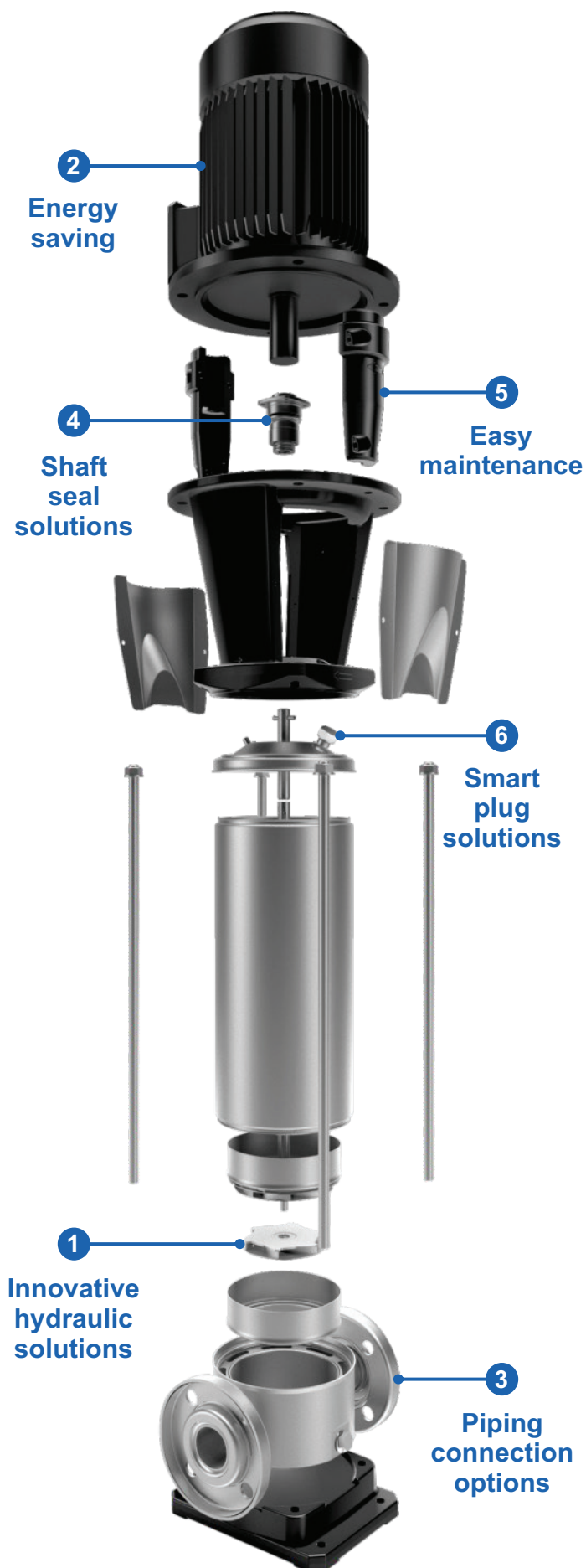
Drinking water approval

AS/NZS 4020 is the Australian/New Zealand standard for products that come into contact with drinking water

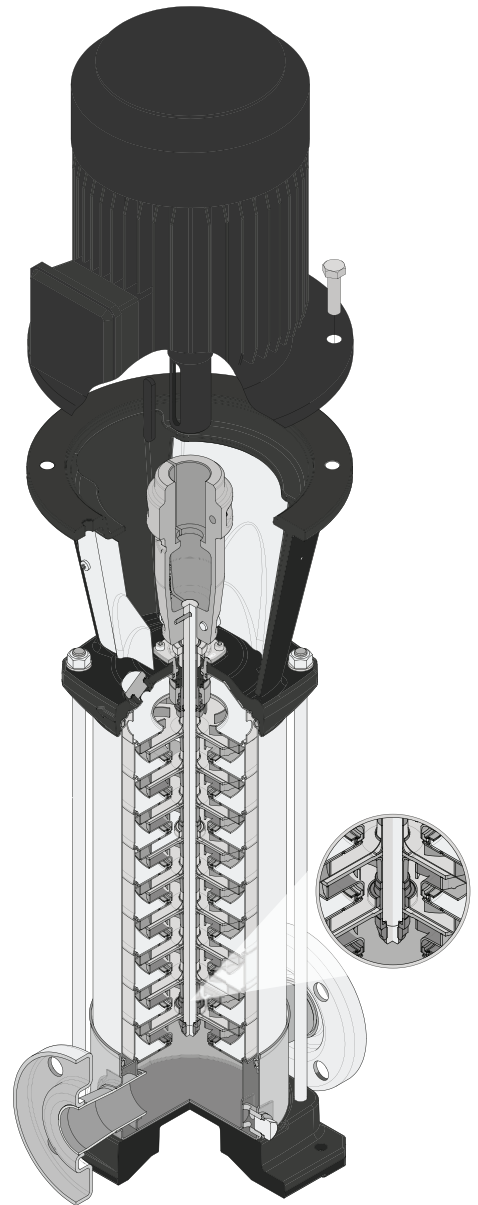
Available mode range: EVMS(G,L) 1/3/5/10/15/20



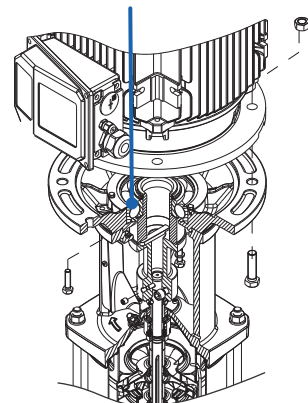
Main product features



Typical construction



Note: models 37 kW and above have bearing in motor bracket



Product specification

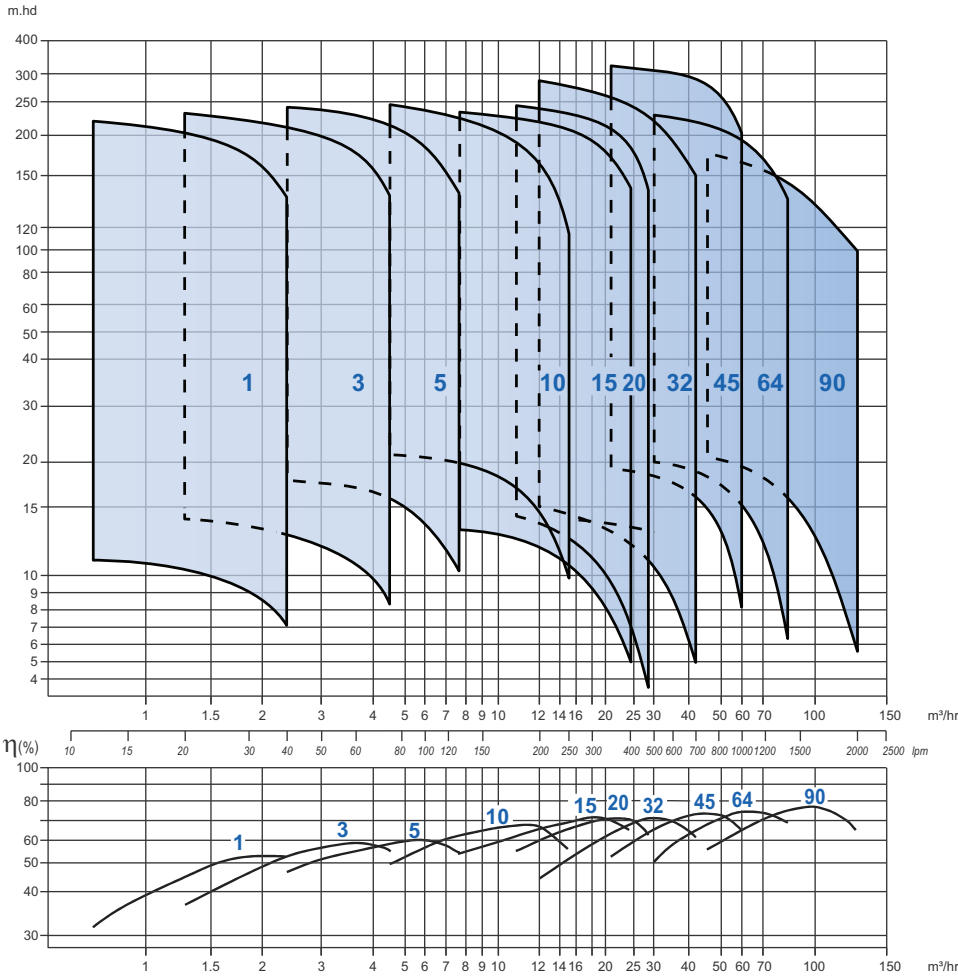
PUMP

Version			EVMSG										EVMS										EVMSL									
Operating range	Nominal flow rate (m³/h)		1	3	5	10	15	20	32	45	64	90	1	3	5	10	15	20	32	45	64	90	1	3	5	10	15	20	32	45	64	90
	Maximum working pressure	Mpa	1.6/2.5					1.6/2.5/3.0/3.5					1.6/2.5					1.6/2.5/3.0/3.5					1.6/2.5					1.6/2.5/3.0/3.5				
		bar	16/25					16/25/30/35					16/25					16/25/30/35					16/25					16/25/30/35				
	Maximum liquid temperature range		-30° to 140°C																													
Key components material	1. Impeller		EN 1.4301 (AISI 304)																				EN 1.4401 (AISI 316L)									
	2. Intermediate casing		EN 1.4301 (AISI 304)																				EN 1.4401 (AISI 316L)									
	3. Liner ring		EN 1.4301 (AISI 304) + PPS																				EN 1.4401 (AISI 316L) + PPS									
	4. Bottom casing		Cast Iron										EN 1.4301 (AISI 304)					EN 1.4308 (ASTM CF8)					EN 1.4401 (AISI 316L)					EN 1.4408 (ASTM CF8M)				
	5. Casing cover		EN 1.4301 (AISI 304)																				EN 1.4401 (AISI 316)									
	6. Shaft	EN 1.4301 (AISI 304)	EVMSG/EVMS (depend on model)																													
		EN 1.4404 (AISI 316L)	EVMSG/EVMS/EVMSL (depend on model)																													
		EN 1.4460 (AISI 329A)	EVMSG/EVMS/EVMSL (depend on model)																													
	8. Shaft seal		SiC/Carbon , SiC/SiC with graphite																													
	7. Shaft sleeve bearing		Tungsten carbide																													
	9. O ring	EPDM	● ●																													

MOTOR

		Standard (WEG W21 IE3 motors)	Options available on request
Power source	Frequency	50 Hz	
	Phase	Three phase	Single phase (up to 3 kW)
	Rotation speed	~ 2900 min	
	Power rating	0.37 ÷ 45 kW 0.5 ÷ 60 HP	
	Voltage	230/400 ± 10% (up to 3 kW) 400/690 ± 10% (4.0 kW & above)	
Type	Type	Electric - TEFC	other enclosures on request
	Efficiency	IE3	
	No. of poles	2	
	Protection degree	IP 55	IP 56, IP 66
	Insulation class	F (temperature rise class B)	H (temperature rise class B)
Others	Frame material	Aluminium (up to 37 kW) / Cast iron (45 kW)	Cast iron
	Flange mount (IEC motor)	IM B14 (up to 4 kW) IM B5 (5.5 kW & above)	

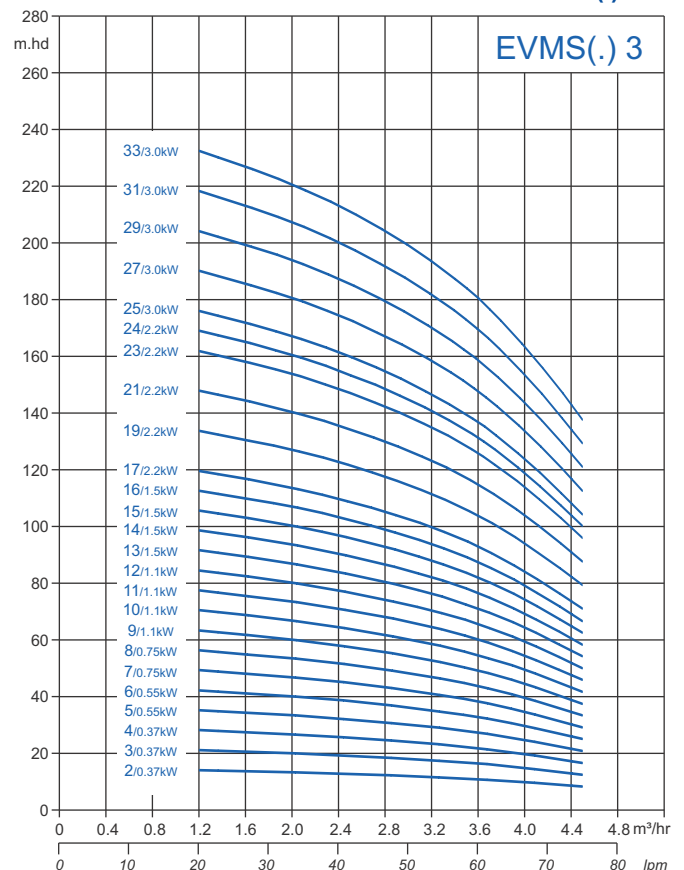
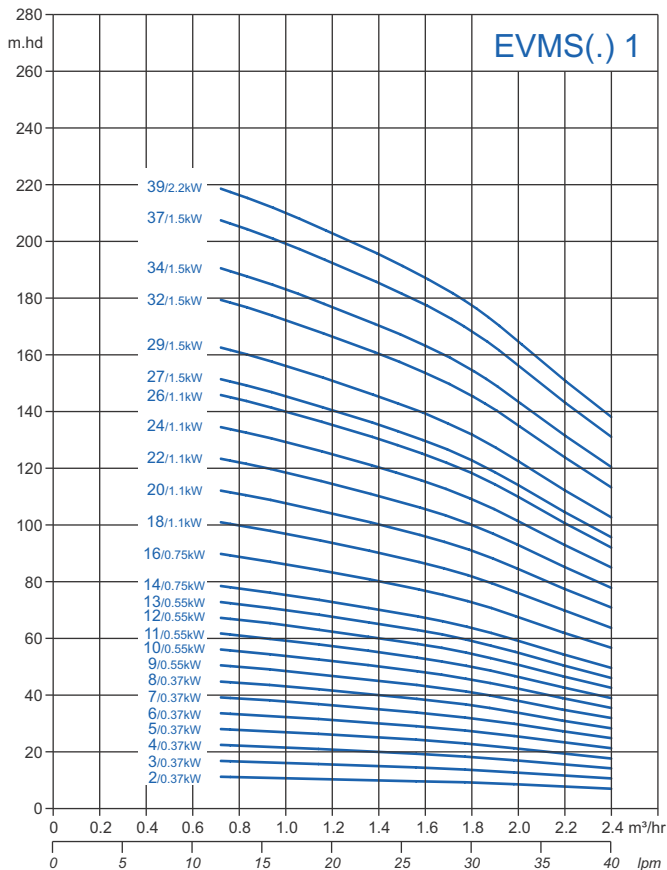
Performance range 50 Hz



Minimum efficiency index (MEI)

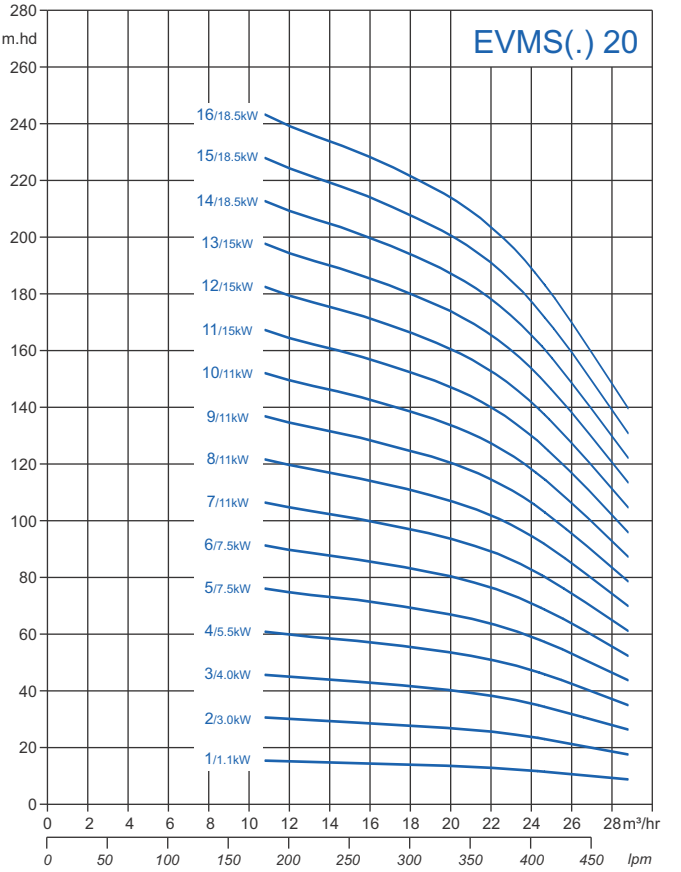
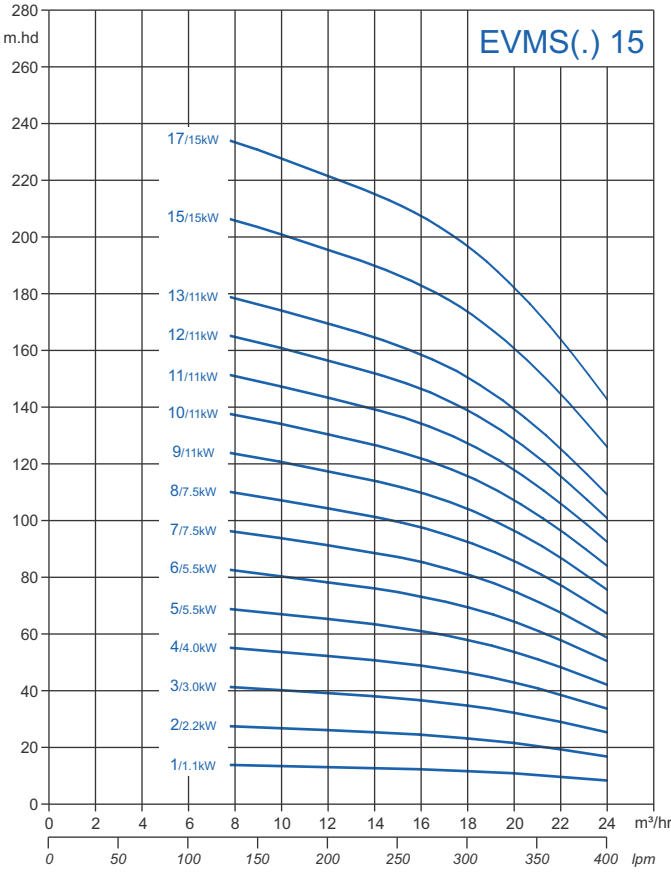
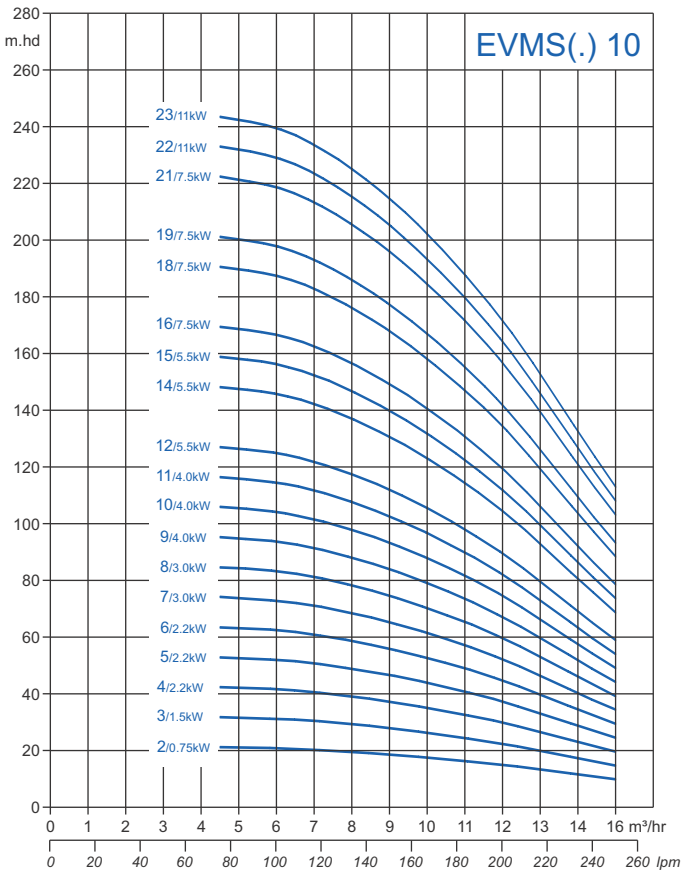
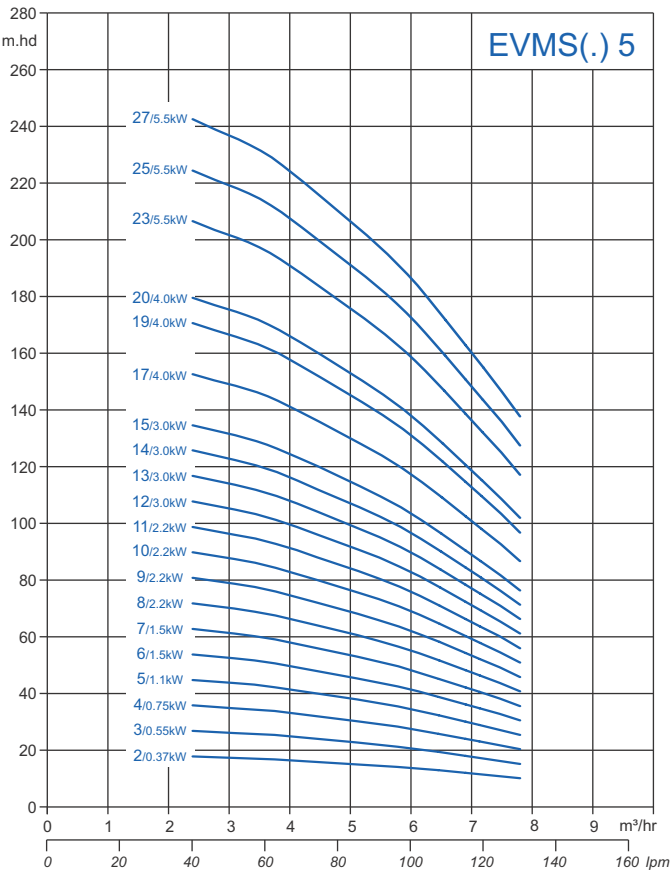
Pump type	MEI
EVMS(.)1	> 0.70
EVMS(.)3	> 0.70
EVMS(.)5	> 0.70
EVMS(.)10	> 0.70
EVMS(.)15	> 0.70
EVMS(.)20	> 0.70
EVMS(.)32	> 0.70
EVMS(.)45	> 0.70
EVMS(.)64	> 0.70
EVMS(.)90	> 0.70

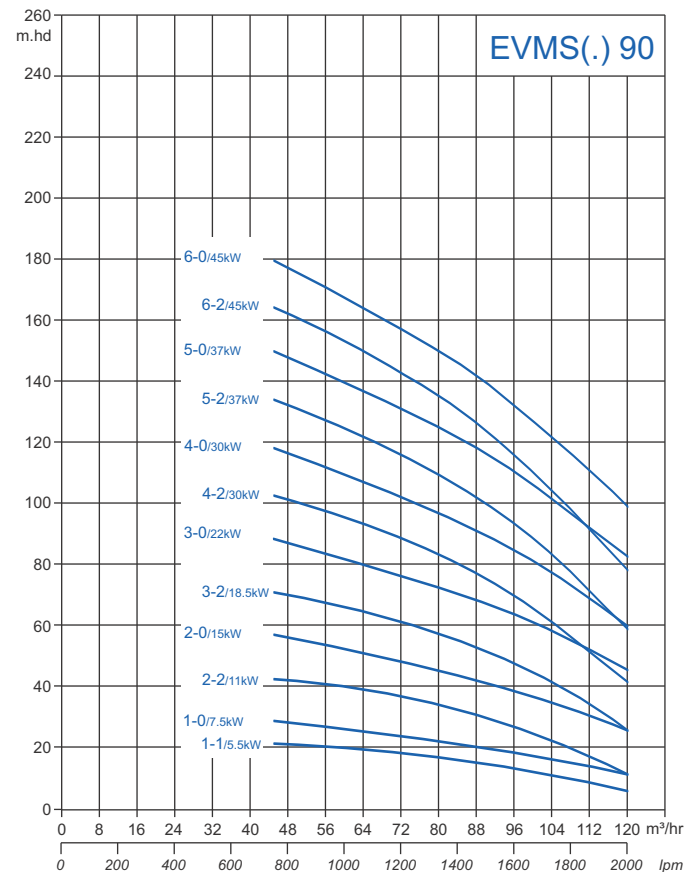
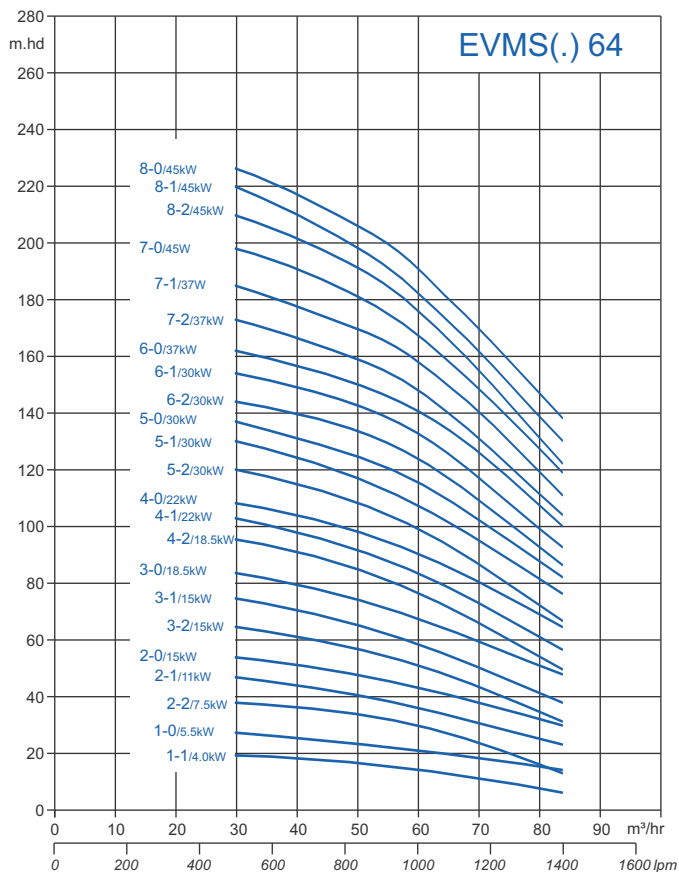
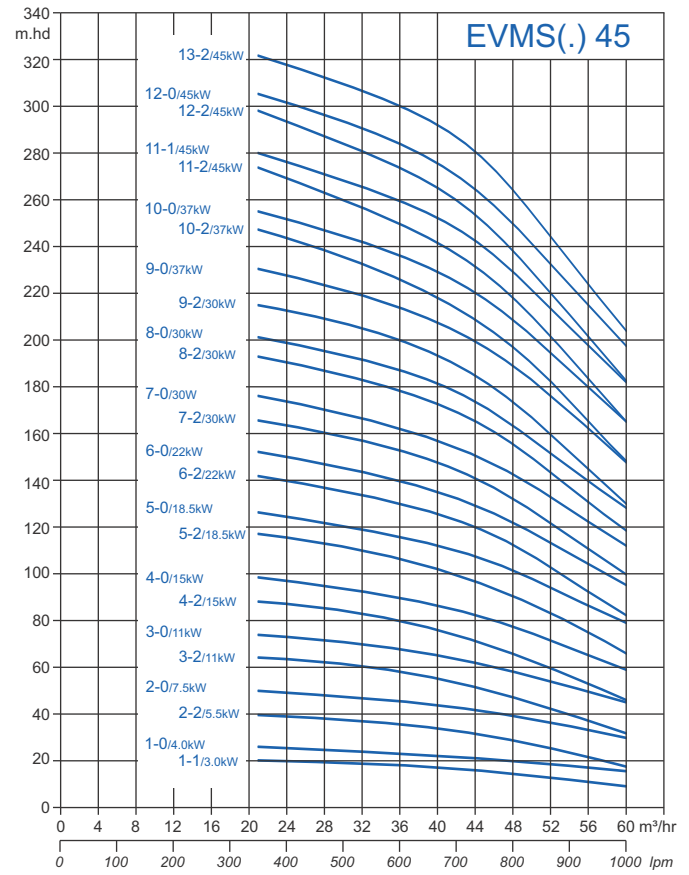
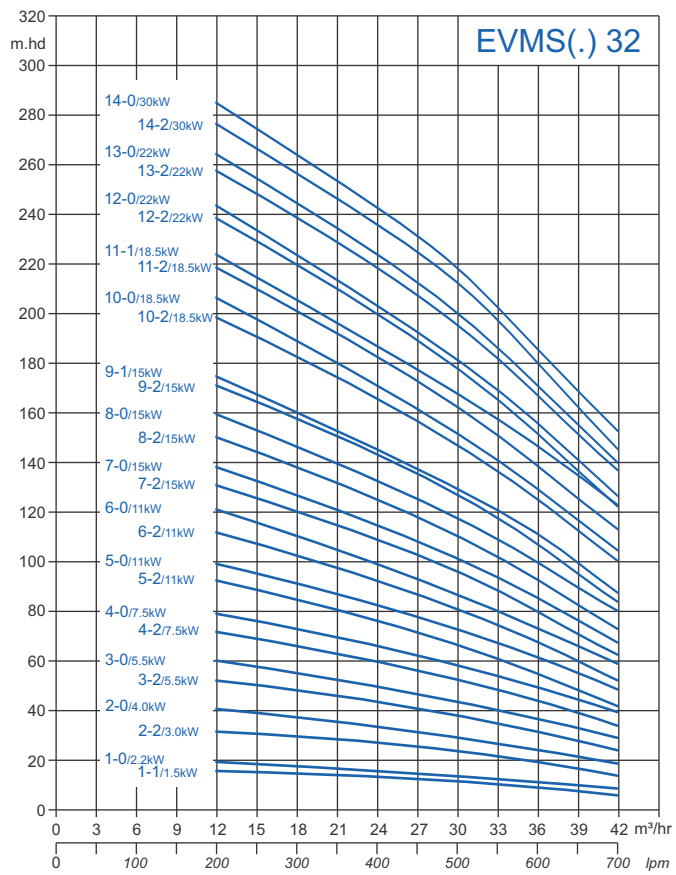
Performance EVMS(.) 1-3



Performance

EVMS(.) 5-10-15-20





Today as a group, EBARA consists of more than 100 companies around the world, with a workforce of more than 19,000 people. The huge scale of production and distribution is matched by a constant commitment to the research, development and design of new products; and the modern technologies for manufacturing them. EBARA products have gained a worldwide reputation for their technology and quality.

EBARA CORPORATION was founded in Japan in 1912 and has grown to become one of the world's leading pump companies, developing new and innovative pumps for over 100 years.

EVMS made in Italy

Established in Japan in 1912

Australian company started 2000

As well as major manufacturing facilities in Japan, EBARA has production facilities in many other countries. This includes Italy with a most modern facility for the mass production of stamped stainless steel pumps. Utilising the latest manufacturing technologies, including a patented plasma stamping process, results in products of consistent high standards and quality.

For over 30 years EBARA PUMPS have been sold and used in Australia, satisfying many customers and gaining a reputation for their quality and reliability. EBARA PUMPS Australia Pty Ltd was established in 2000 to better service the market with an increasing range of quality products. A strong nationwide network of dealers support the sales and service of our extensive range of products.

www.ebara.co.jp/en

Visit EBARA CORPORATION'S website for more detail of their operation, product range and global network.

www.ebaraeurope.com

Visit the website of EBARA PUMPS Europe for more detail on the large range of quality stainless steel pumps they produce.

www.ebara.com.au

Visit our website for more details on the range of pumps we stock and support, and our dealer network.

Specifications subject to change without notice

24/10

Dealer



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