GPW Variable speed pumping units

Clean water

Domestic use

Civil use

INSTALLATION AND USE

GPW is a pre-assembled system designed to connect to water mains or a primary collection tanks. It provides water supply and pressurization and is ideal for residential, commercial, and public buildings. It's also suitable for hotels, park irrigation, as well as industrial water handling and treatment.

GPW is compatible with clean water and aqueous solutions that do not chemically or mechanically harm the materials used and are free from abrasive or fibrous substances.

PRODUCT DESCRIPTION

GPW is a variable speed pressurization system **comprising two or three pumps** assembled into one unit. It is electronically controlled by two or three **STEADYPRES** devices connected in parallel. These devices automatically adjust the pump operation based on the system's varying water demands, ensuring constant pressure.

When water withdrawal reduces the system pressure, the first pump activates to meet the required flow rate, maintaining pressure at the set value. As the maximum rotation speed is reached, additional pumps start up in sequence to fulfill the system's water demand.

COMPONENTS

※ **Pumps** connected in parallel via suction and discharge manifolds. Each pump is equipped with a ball valve on the suction side and a ball valve and non-return valve (integrated in STEADYPRES) on the discharge side.

※ **BASE** made of metal profile and equipped with adjustable vibration-damping feet.

※ **STEADYPRES ELECTRONIC DEVICES** installed directly on the delivery pipe of each individual pump. They continuously regulate the rotation speed, ensuring a constant pressure even as user demands fluctuate. Each inverter can manage the alternating operation of pumps as needed.

GPW is designed to protect the system from:
※ Dry running
※ overvoltage and undervoltage

※ **CONTROL PANEL** equipped with magnetothermal motor protection circuit breakers for three-phase versions, and magnetothermal circuit breakers for single-phase versions.

※ **POWER SUPPLY**:
– GPWm: single-phase 230V ±10% 50/60Hz
– GPW : three-phase 400V ±10% 50/60Hz

GP2W – 5CR

Pressurization units comprising two multistage centrifugal pumps equipped with STEADYPRES inverters capable of maintaining a constant pressure in the system. The GP2W - 5CR are suitable for domestic and residential water supply, garden irrigation, and general clean water handling.

TECHNICAL DATA

- Liquid temperature up to **+40 °C**
- Ambient temperature between **0 °C** and **+40 °C**
- Max. pressure in the pump body **7 bar**
- Continuous running duty **S1**

GP2W – MK

Pressurization units comprising three vertical multistage pumps equipped with STEADYPRES inverters, capable of maintaining constant pressure in the system. GP3W - MK are suitable for residential, commercial, and public water supply, large-scale irrigation, and handling clean water in general.

TECHNICAL DATA

- Liquid temperature up to **+40 °C**
- Ambient temperature between **0 °C** and **+40 °C**
- Max. pressure in pump body **10 bar**
- Continuous running duty **S1**

GP3W – MK

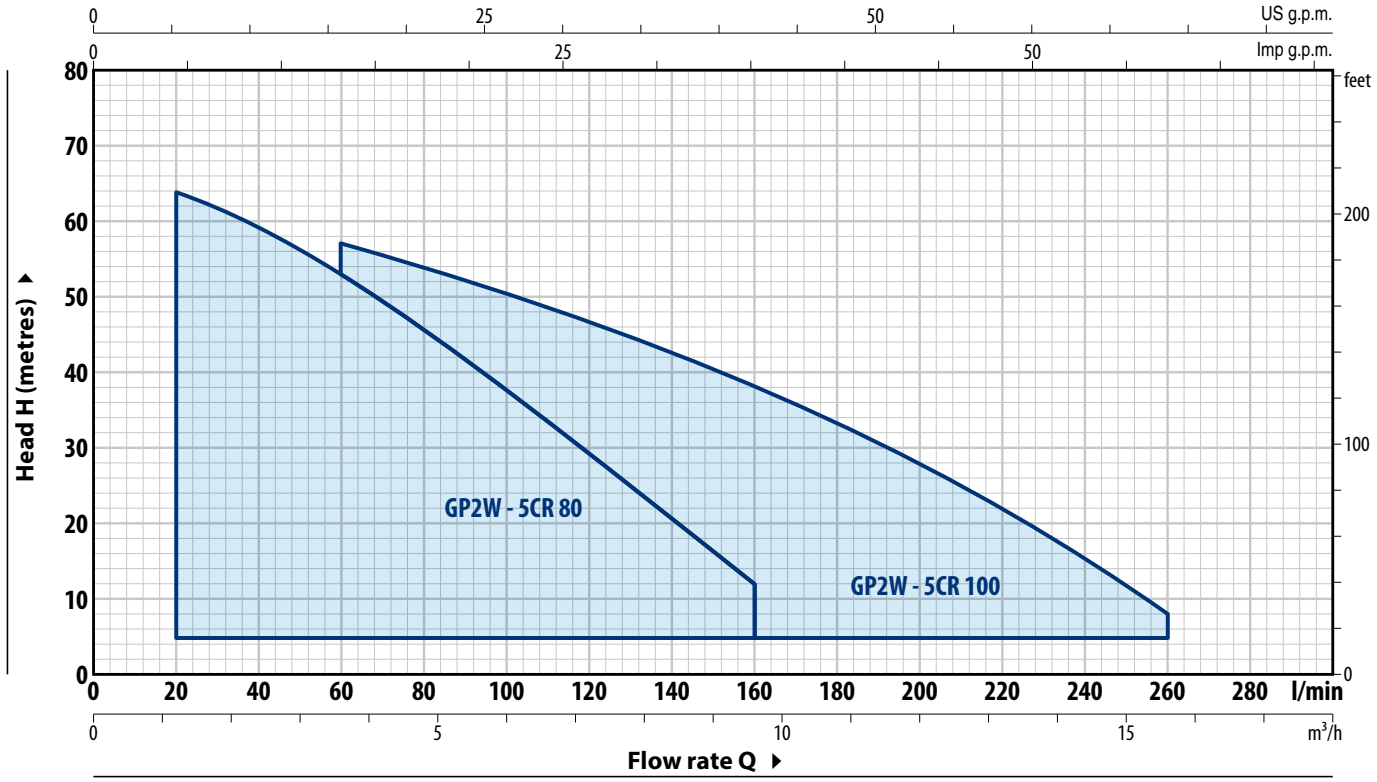
Pressurization units comprising three vertical multistage pumps equipped with STEADYPRES inverters capable of maintaining constant pressure in the system. GP3W - MK are suitable for residential, commercial, and public water supply, large-scale irrigation, and handling clean water in general.

TECHNICAL DATA

- Liquid temperature up to **+40 °C**
- Ambient temperature between **0 °C** and **+40 °C**
- Max. pressure in pump body **10 bar**
- Continuous running duty **S1**

GP2W – 5CR

FIELD AND PERFORMANCE DATA

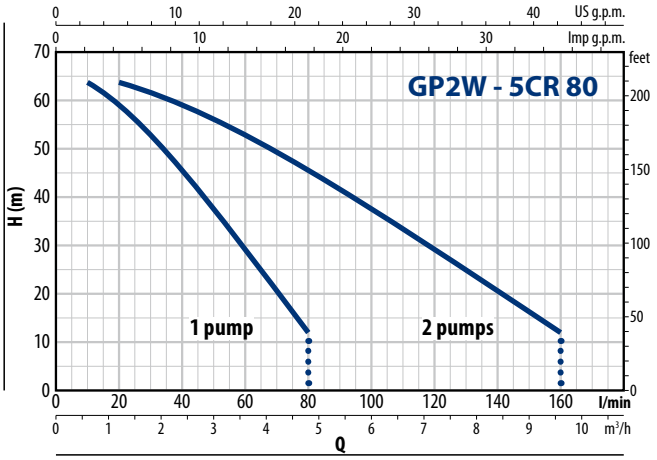


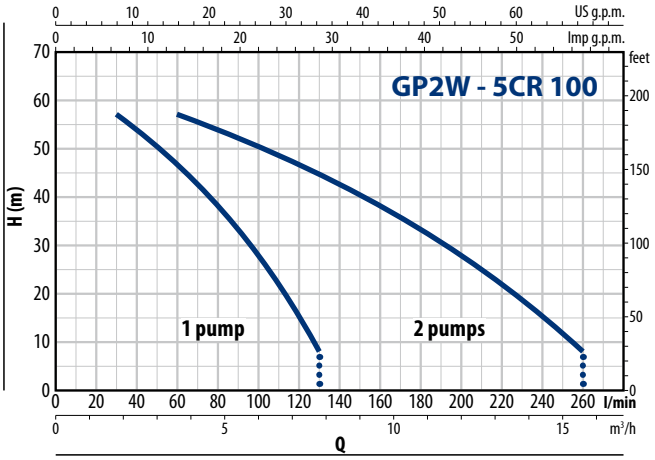
TYPE		POWER P2		Q	m³/h	0	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	10.8	12.0	13.2	14.4	15.6
Single-phase	**Three-phase**	**kW**	**HP**		l/min	**0**	**20**	**40**	**60**	**80**	**100**	**120**	**140**	**160**	**180**	**200**	**220**	**240**	**260**
GP2Wm - 5CR 80	**GP2W - 5CR 80**	2x0.75	2x1	**H** m		67	64	59	53	45.5	37.5	29.5	20.5	12					
GP2Wm - 5CR 100	**GP2W - 5CR 100**	2x0.9	2x1.25			63	61.5	59.5	57	53.5	50.5	46.5	42.5	38	33	28	22	15	8

Q = Flow rate **H** = Total manometric head

※ The data shown in the diagram and tables indicate performance with 2 pumps in operation

PERFORMANCE CURVES



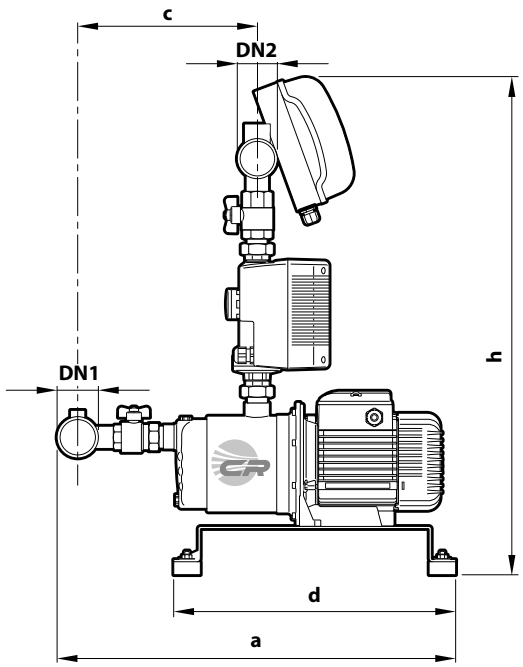


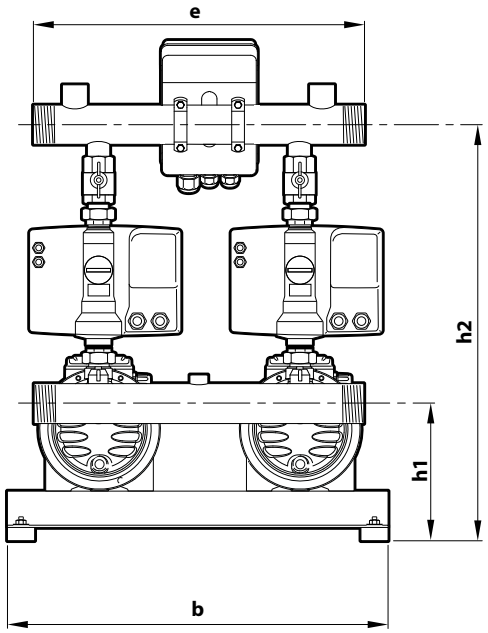
ABSORPTION

TYPE **Single-phase**	VOLTAGE **230 V**
GP2Wm - 5CR 80	2 x 9.0 A
GP2Wm - 5CR 100	2 x 9.5 A

TYPE **Three-phase**	VOLTAGE **400 V**
GP2W - 5CR 80	2 x 3.2 A
GP2W - 5CR 100	2 x 3.2 A

DIMENSIONS AND WEIGHT

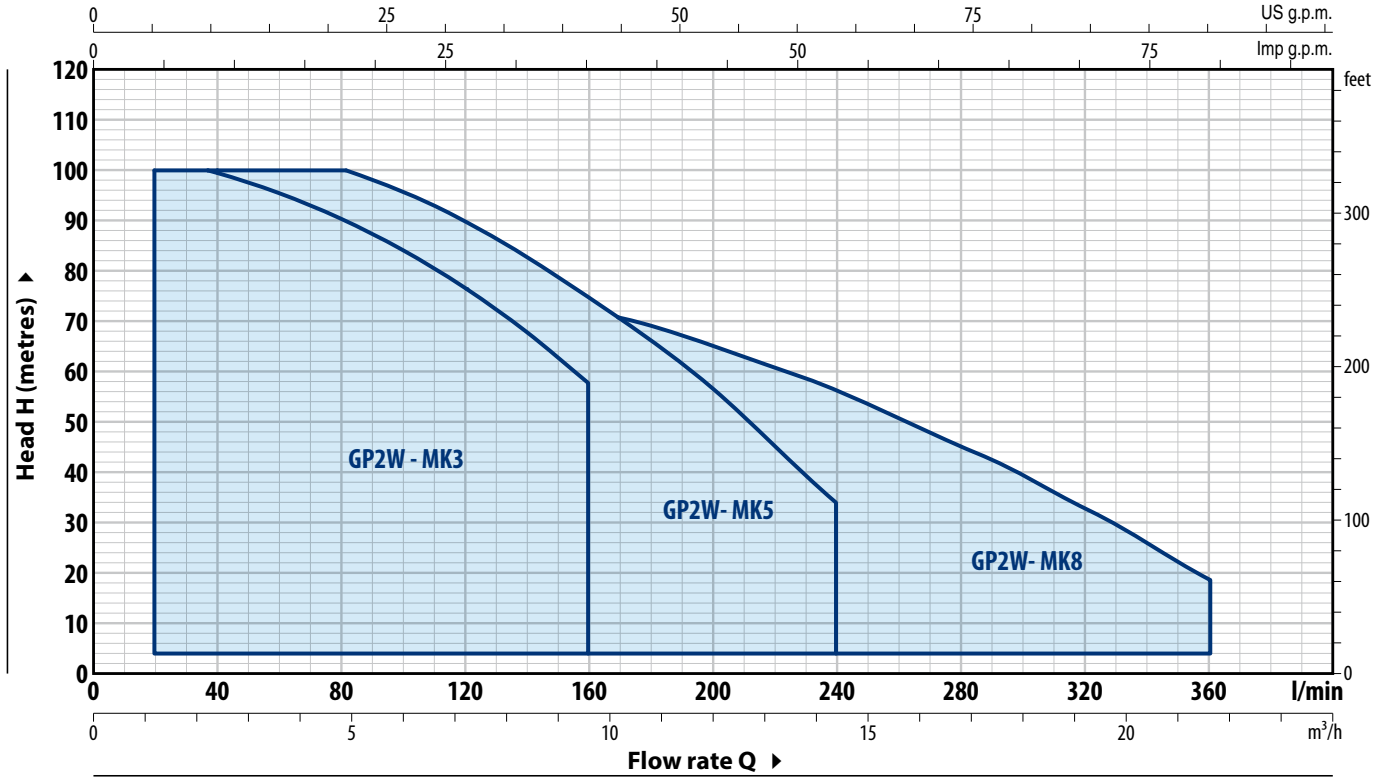




TIPO		BOCCHE		DIMENSIONS mm										kg	
Monofase	**Trifase**	DN1	DN2	a	b	c	d	e	h 1~	h 3~	h1	h2 1~	h2 3~	1~	3~
GP2Wm - 5CR 80	**GP2W - 5CR 80**	**1½"**	**1½"**	608	570	273	420	500	754	712	205	624	582	64	67
GP2Wm - 5CR 100	**GP2W - 5CR 100**	**2"**		687		347								65	68

GP2W – MK

FIELD AND PERFORMANCE DATA

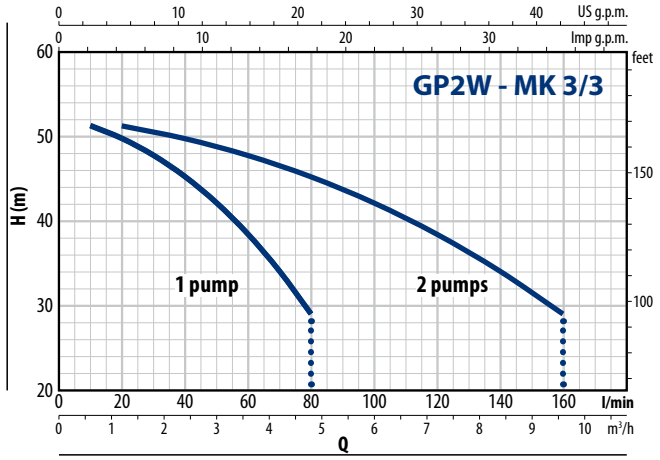


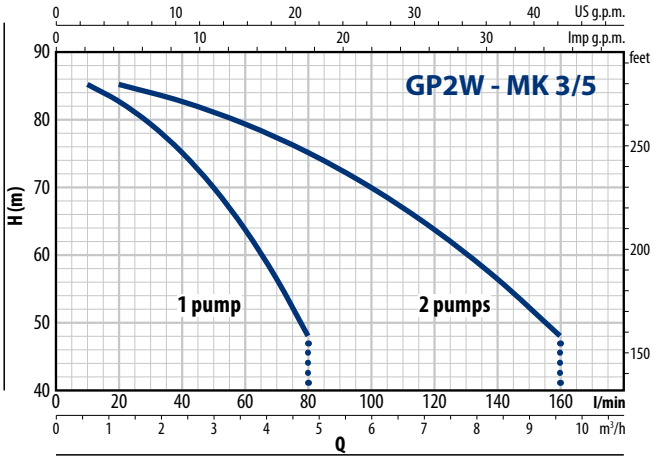
TYPE		POWER P2		Q m³/h	0	1.2	2.4	4.8	7.2	9.6	12.0	14.7	16.8	19.2	21.6
Single-phase	Three-phase	kW	HP	l/min	**0**	**20**	**40**	**80**	**120**	**160**	**200**	**240**	**280**	**320**	**360**
GP2Wm - MK 3/3	GP2W - MK 3/3	2x0.75	2x1		52.5	51.5	50	45	38.5	29					
GP2Wm - MK 3/5	GP2W - MK 3/5	2x1.1	2x1.5		87	85	83	75	64	48					
GP2Wm - MK 3/6	GP2W - MK 3/6	2x1.5	2x2		100	100	100	90	77	58					
GP2Wm - MK 5/4	GP2W - MK 5/4	2x0.75	2x1		57	–	54	50	45	37.5	28.5	17			
GP2Wm - MK 5/5	GP2W - MK 5/5	2x1.1	2x1.5		71	–	67.5	62.5	56	47	35.5	21.5			
GP2Wm - MK 5/7	GP2W - MK 5/7	2x1.5	2x2	H m	99	–	95	88	78	66	50	30			
GP2Wm - MK 5/8	GP2W - MK 5/8	2x2.2	2x3		100	–	100	100	90	75	57	34			
GP2Wm - MK 8/4	GP2W - MK 8/4	2x1.1	2x1.5		56	–	–	53.5	51	47.5	43	37.5	30.5	22	12
GP2Wm - MK 8/5	GP2W - MK 8/5	2x1.5	2x2		70	–	–	67	64	59.5	54	47	38	27.5	15.5
GP2Wm - MK 8/6	GP2W - MK 8/6	2x2.2	2x3		84	–	–	80	77	72	64.5	56	45.5	33	18.5

Q = Flow rate **H** = Total manometric head

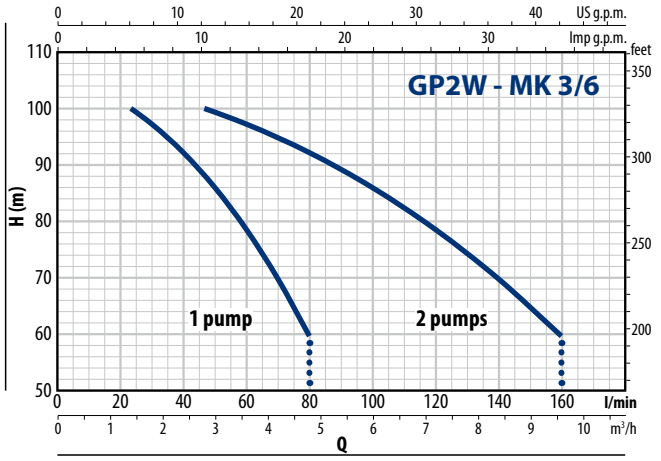
※ **The data shown in the diagram and tables indicate performance with 2 pumps in operation**

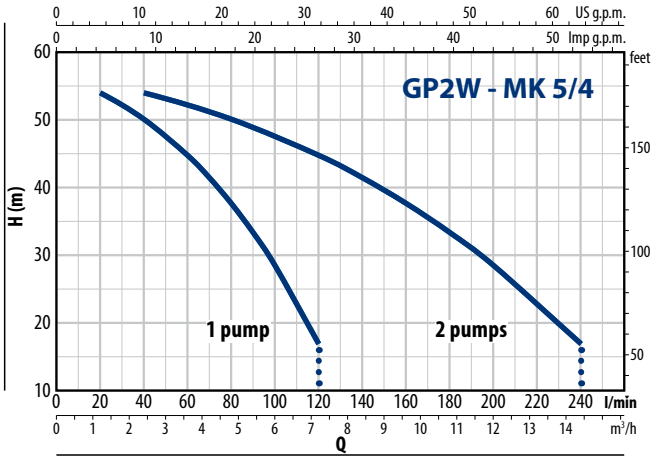
PERFORMANCE CURVES

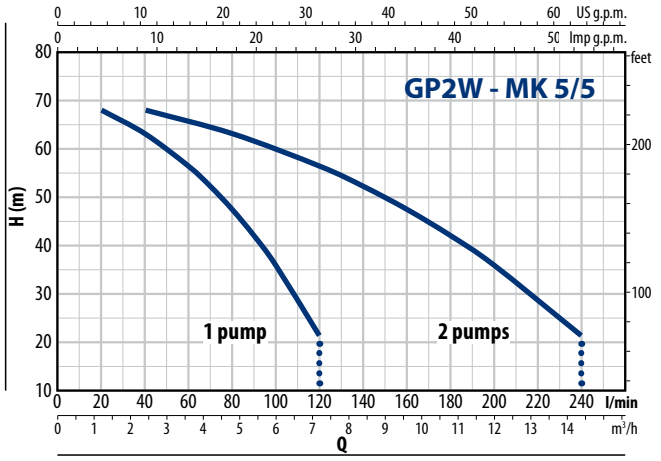


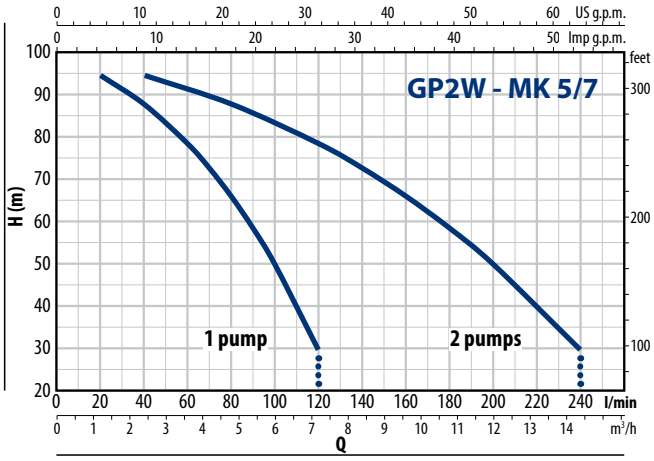


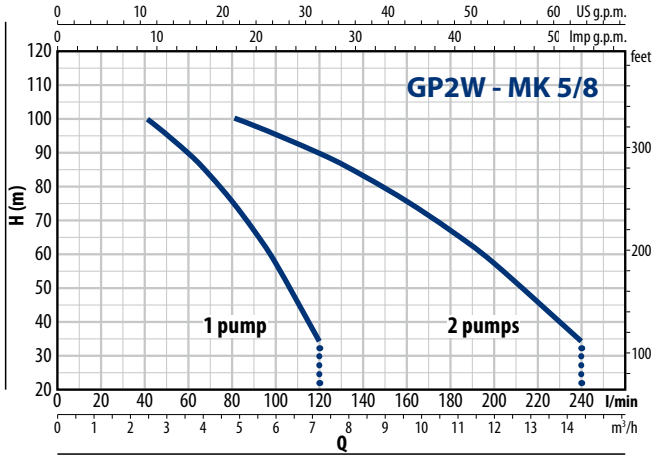
PERFORMANCE CURVES

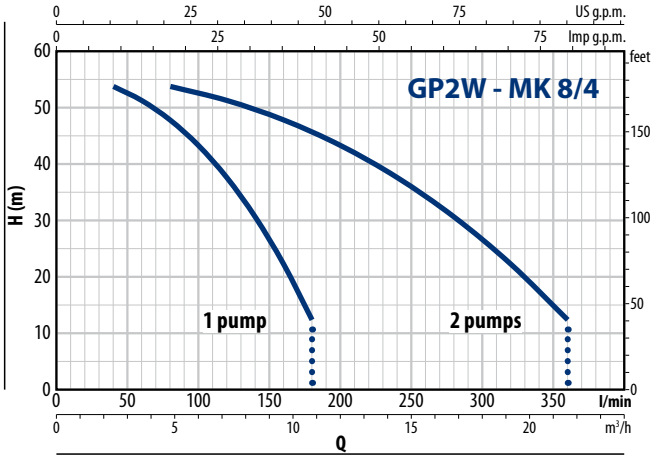


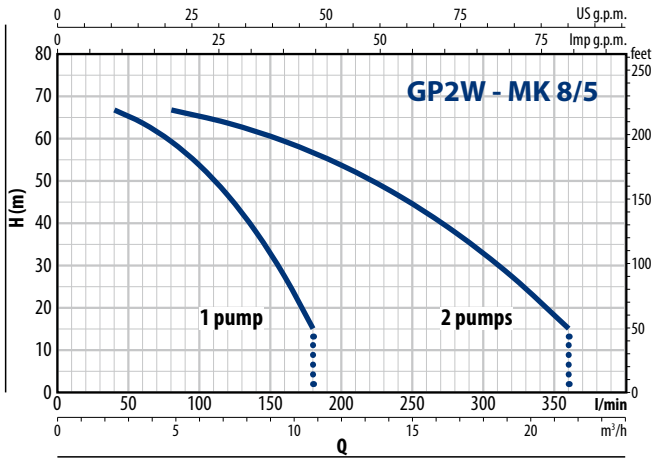


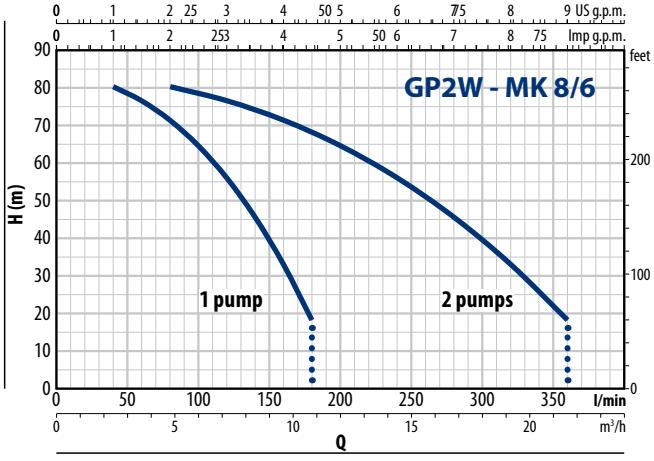












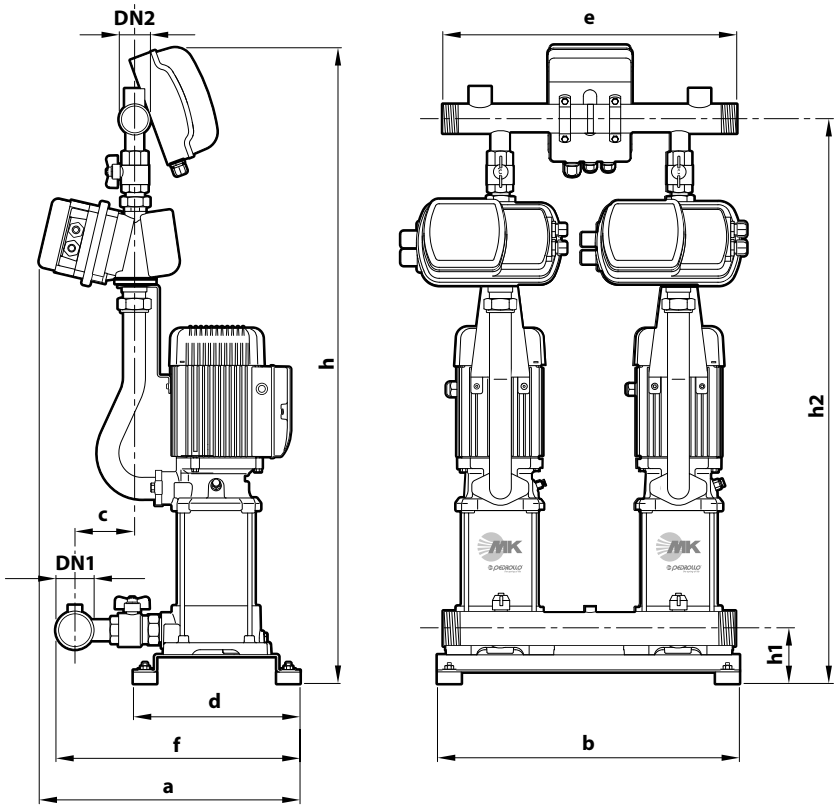
GP2W – MK

ABSORPTION

TIPO **Monofase**	TENSIONE **230 V**
GP2Wm - MK 3/3	2 x 9.0 A
GP2Wm - MK 3/5	2 x 12.5 A
GP2Wm - MK 3/6	2 x 14.0 A
GP2Wm - MK 5/4	2 x 9.0 A
GP2Wm - MK 5/5	2 x 11.0 A
GP2Wm - MK 5/7	2 x 13.5 A
GP2Wm - MK 5/8	2 x 16.0 A
GP2Wm - MK 8/4	2 x 12.5 A
GP2Wm - MK 8/5	2 x 14.0 A
GP2Wm - MK 8/6	2 x 18.0 A

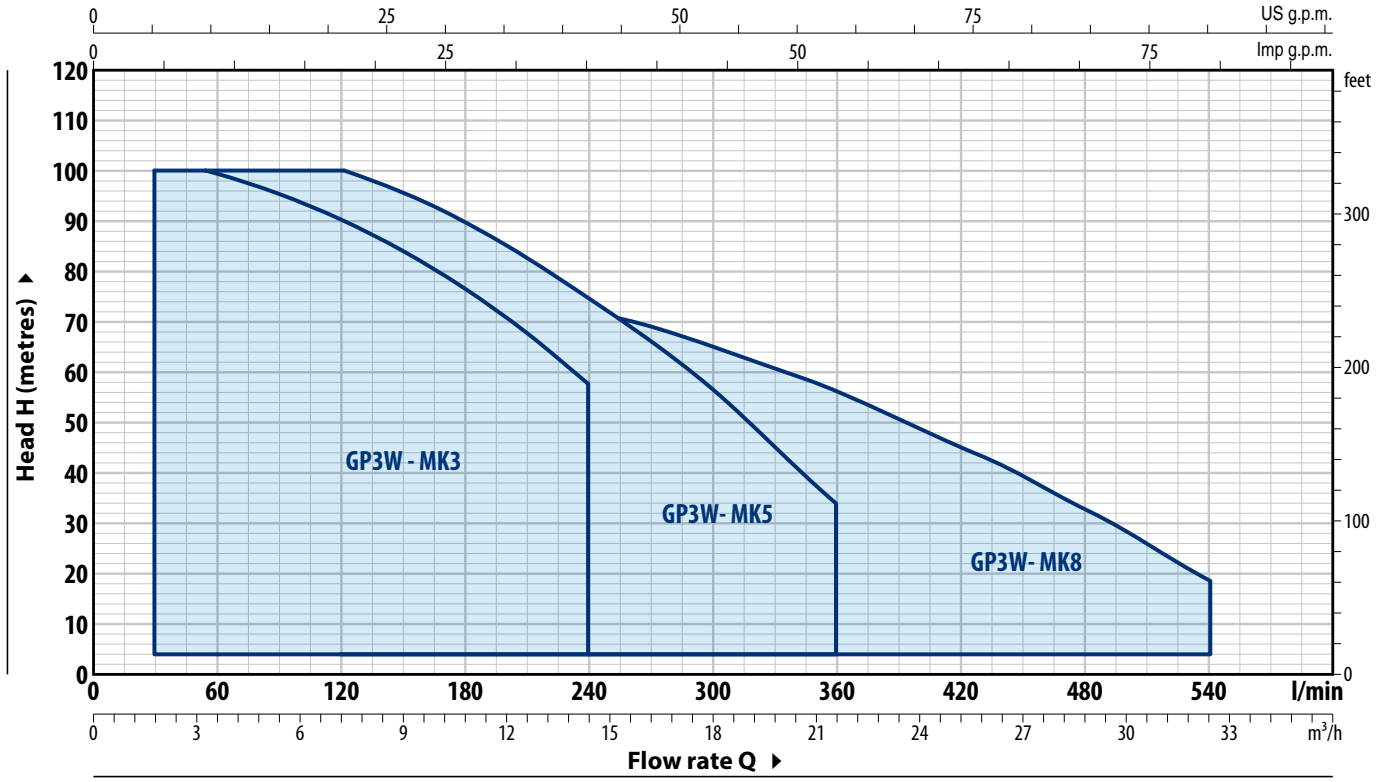
TIPO **Trifase**	TENSIONE **400 V**
GP2W - MK 3/3	2 x 3.3 A
GP2W - MK 3/5	2 x 4.2 A
GP2W - MK 3/6	2 x 5.0 A
GP2W - MK 5/4	2 x 3.3 A
GP2W - MK 5/5	2 x 4.0 A
GP2W - MK 5/7	2 x 5.0 A
GP2W - MK 5/8	2 x 6.0 A
GP2W - MK 8/4	2 x 4.2 A
GP2W - MK 8/5	2 x 5.0 A
GP2W - MK 8/6	2 x 6.5 A

DIMENSIONS AND WEIGHT



TYPE		PORTS		DIMENSIONS mm									kg	
Single-phase	**Three-phase**	DN1	DN2	a	b	c	d	e	f	h	h1	h2	1~	3~
GP2Wm - MK 3/3	**GP2W - MK 3/3**									965		842	80.0	79.0
GP2Wm - MK 3/5	**GP2W - MK 3/5**									1019		896	84.0	84.0
GP2Wm - MK 3/6	**GP2W - MK 3/6**									1046		923	88.0	87.0
GP2Wm - MK 5/4	**GP2W - MK 5/4**	**2"**	**1½"**			107			420	992		869	80.0	80.0
GP2Wm - MK 5/5	**GP2W - MK 5/5**			447	510		284	500		1019	91	896	83.0	83.0
GP2Wm - MK 5/7	**GP2W - MK 5/7**									1073		950	88.0	88.0
GP2Wm - MK 5/8	**GP2W - MK 5/8**									1100		977	89.0	88.0
GP2Wm - MK 8/4	**GP2W - MK 8/4**									992		869	86.0	86.0
GP2Wm - MK 8/5	**GP2W - MK 8/5**	**2½"**	**2"**			115			435	1019		896	87.0	86.0
GP2Wm - MK 8/6	**GP2W - MK 8/6**									1046		923	93.0	92.0

FIELD AND PERFORMANCE DATA



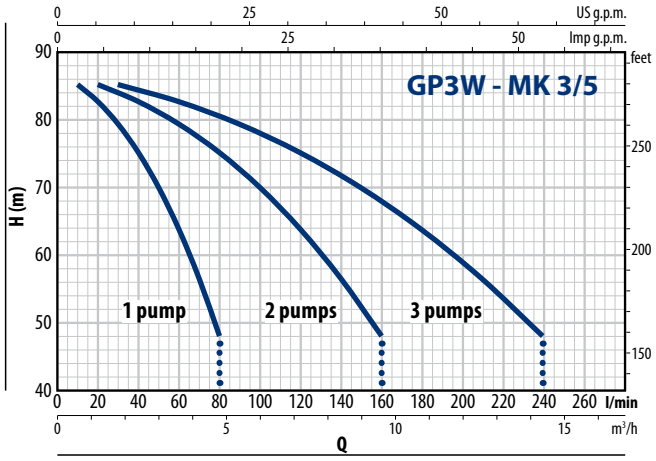
TYPE		POWER P2		Q m³/h	0	1.8	3.6	7.2	10.8	14.5	18.1	21.7	25.3	28.9	32.5
Single-phase	Three-phase	kW	HP	l/min	**0**	**30**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**
GP3Wm - MK 3/5	**GP3W - MK 3/5**	3x1.1	3x1.5	H m	87	85	83	75	64	48					
GP3Wm - MK 3/6	**GP3W - MK 3/6**	3x1.5	3x2		100	100	100	90	77	58					
GP3Wm - MK 5/5	**GP3W - MK 5/5**	3x1.1	3x1.5		71	–	67.5	62.5	56	47	35.5	21.5			
GP3Wm - MK 5/7	**GP3W - MK 5/7**	3x1.5	3x2		99	–	95	88	78	66	50	30			
GP3Wm - MK 5/8	**GP3W - MK 5/8**	3x2.2	3x3		100	–	100	100	90	75	57	34			
GP3Wm - MK 8/4	**GP3W - MK 8/4**	3x1.1	3x1.5		56	–	–	53.5	51	47.5	43	37.5	30.5	22.1	12
GP3Wm - MK 8/5	**GP3W - MK 8/5**	3x1.5	3x2		70	–	–	67	64	59.5	54	47	38	27.5	15.5
GP3Wm - MK 8/6	**GP3W - MK 8/6**	3x2.2	3x3		84	–	–	80	77	72	64.5	56	45.5	33	18.5

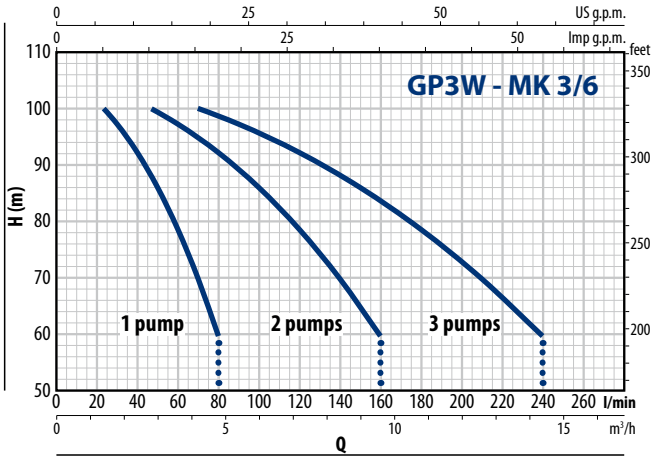
Q = Flow rate **H** = Total manometric head

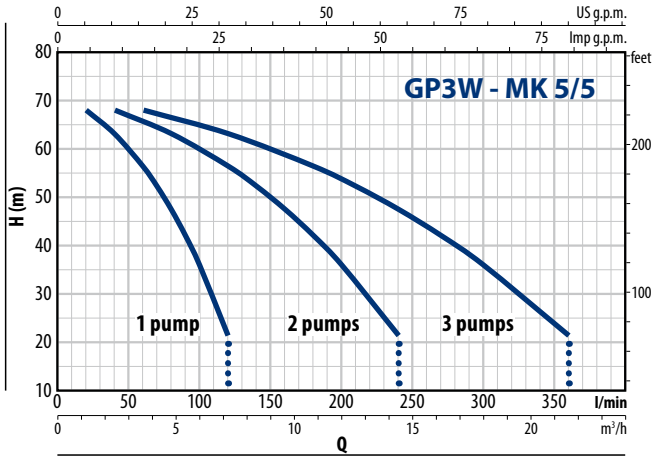
※ **The data shown in the diagram and tables indicate performance with 3 pumps in operation**

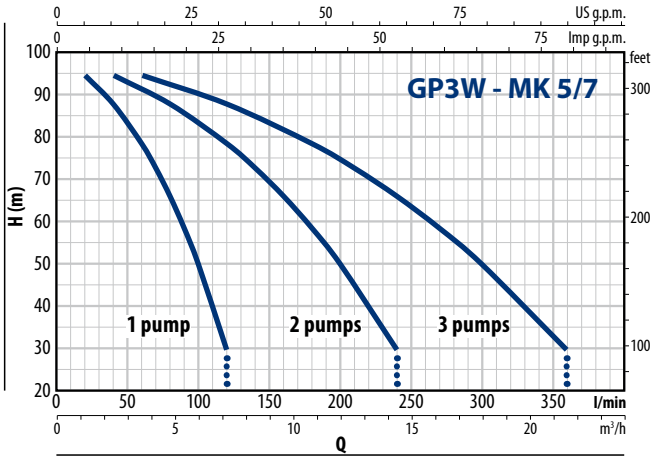
GP3W – MK

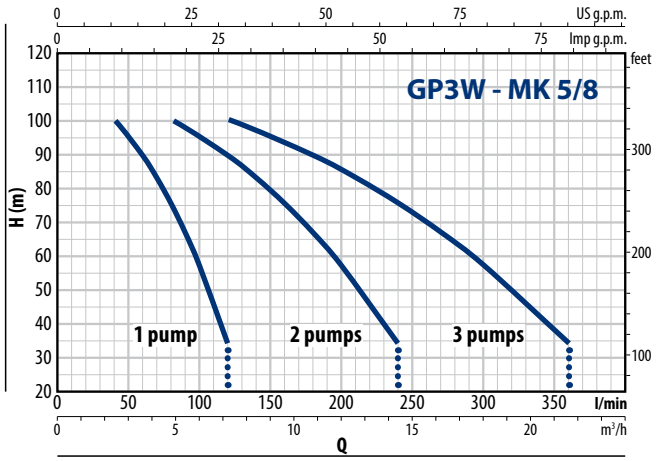
PERFORMANCE CURVES

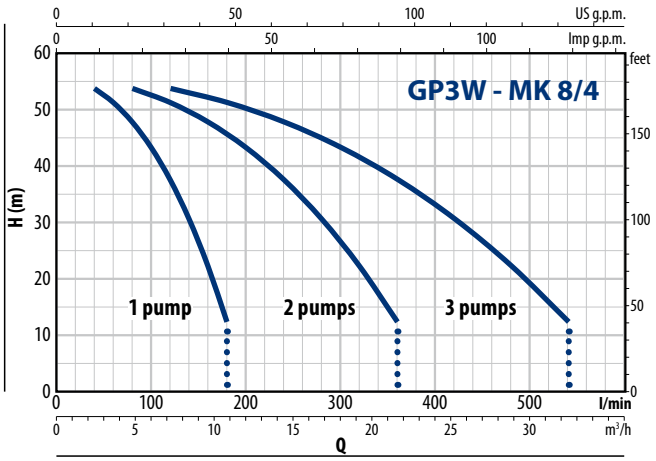


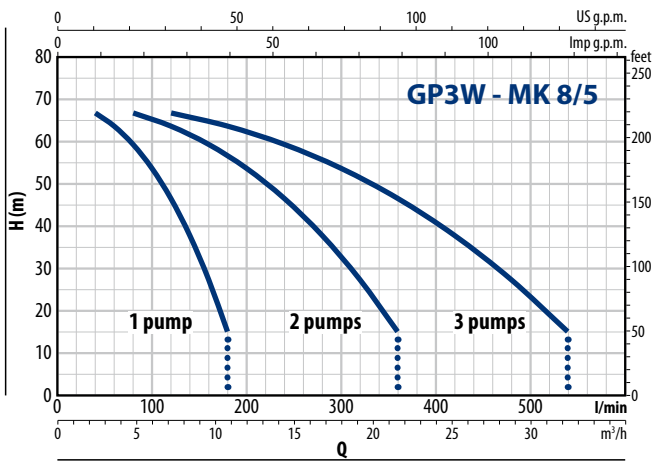


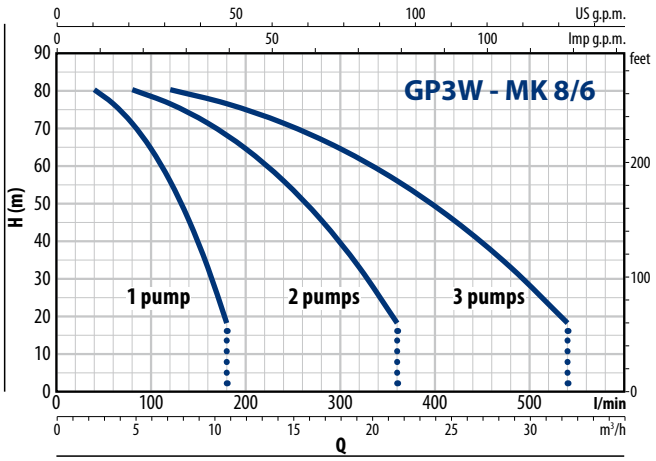










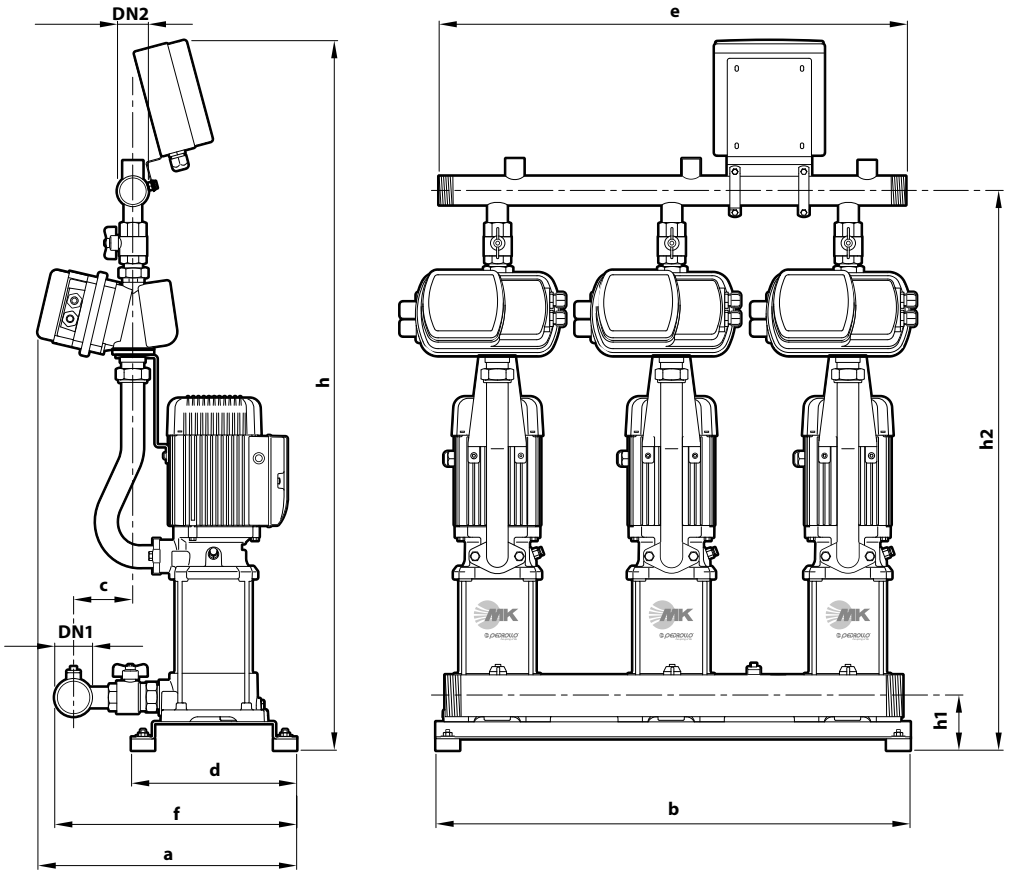


ABSORPTION

TYPE **Single-phase**	VOLTAGE **230 V**
GP3Wm - MK 3/5	3 x 12.5 A
GP3Wm - MK 3/6	3 x 14.0 A
GP3Wm - MK 5/5	3 x 11.0 A
GP3Wm - MK 5/7	3 x 13.5 A
GP3Wm - MK 5/8	3 x 16.0 A
GP3Wm - MK 8/4	3 x 12.5 A
GP3Wm - MK 8/5	3 x 14.0 A
GP3Wm - MK 8/6	3 x 18.0 A

TYPE **Three-phase**	VOLTAGE **400 V**
GP3W - MK 3/5	3 x 4.2 A
GP3W - MK 3/6	3 x 5.0 A
GP3W - MK 5/5	3 x 4.0 A
GP3W - MK 5/7	3 x 5.0 A
GP3W - MK 5/8	3 x 6.0 A
GP3W - MK 8/4	3 x 4.2 A
GP3W - MK 8/5	3 x 5.0 A
GP3W - MK 8/6	3 x 6.5 A

DIMENSIONS AND WEIGHT



TYPE		PORTS		DIMENSIONS mm									kg	
Single-phase	**Three-phase**	DN1	DN2	a	b	c	d	e	f	h	h1	h2	1~	3~
GP3Wm - MK 3/5	**GP3W - MK 3/5**	**2½"**	**2"**	447	810	115	284	800	435	1197	91	876	130.0	130.0
GP3Wm - MK 3/6	**GP3W - MK 3/6**									1224		930	135.0	136.0
GP3Wm - MK 5/5	**GP3W - MK 5/5**									1197		903	129.0	130.0
GP3Wm - MK 5/7	**GP3W - MK 5/7**									1251		957	136.0	136.0
GP3Wm - MK 5/8	**GP3W - MK 5/8**									1278		984	140.0	140.0
GP3Wm - MK 8/4	**GP3W - MK 8/4**									1170		876	131.0	132.0
GP3Wm - MK 8/5	**GP3W - MK 8/5**									1197		903	132.0	133.0
GP3Wm - MK 8/6	**GP3W - MK 8/6**									1224		930	142.0	142.0