

MARQUIS®



MARQUIS® WATER PUMP

MARQUIS brand introduction

Derive from European noble, MARQUIS is obliged to be High-quality.

Ознакомления с брендом MARQUIS

Исходя из европейских традиций MARQUIS производит товары высоко качества.

MARQUIS achievements

Marquis can produce four categories of 500 items water pumps.

Достижения MARQUIS

MARQUIS производит более 4 серии и 500 типов насосов.

Selling to more than 90 countries in the world.

Продажи более чем в 90 странах мира.

More than 20 million PCS marquis pumps are used in the world.

Более чем 20 миллионов насосов MARQUIS используются в разных странах мира.

MARQUIS quality control system

Ten process of quality control is conducted for the high quality of the products.

Системы управления качества MARQUIS

Десять процессов контроля проводятся для достижения высокого качества продукции.

The selection of advance material and the performance test at fully loaded capacity guarantee the super reliability of the quality and duration.

Лучшие материалы и тестирования производительности на полной загрузке – это гарантия качества и долговечности насосов MARQUIS.





MKP End-suction Peripheral Pump



Page 1-3

MQP Side-suction Peripheral Pump



Page 4-6

MQS Self-priming Peripheral Pump



Page 7-9

MJ Self-priming JET Pump(With Build-in Ejector)



Page 10-12

MJm Self-priming JET Pump(With Build-in Ejector)



Page 13-15

MJSm Self-priming JET Pump(With Build-in Ejector)



Page 16-18

MJSW Self-priming JET Pump(With Build-in Ejector)



Page 19-21

MJWm Self-priming JET Pump(With External Ejector)



Page 22-25

MGA Centrifugal Pump



Page 26-28

MNF Centrifugal Pump



Page 29-31

MHF Centrifugal Pump



Page 32-37

MSV Vertical Multi-stage Centrifugal Pump



Page 38-42

MQS Automatic Self-priming Peripheral Pump



Page 43-51

MDS Automatic Self-priming Peripheral Pump



Page 52-53

PAm Automatic Self-priming Peripheral Pump



Page 54-56

MQS/MKP Automatic Pump(With Electronic Controller)



Page 57-60

SP/SUP Submersible Pump



Page 61-63

SA Submersible Pump



Page 64-66

V Submersible Sewage Pump



Page 67-69

EC Electronic Controller



Page 70-76



Limits of use

- Liquid temperature: $-10^{\circ}\text{C} \sim +60^{\circ}\text{C}$.
- Power: single-phase 220V/50Hz, three-phase 380V/50Hz.
- Max. working pressure: 6.5bar.

Features

- Compact design with attractive appearance.
- Built-in thermal protector to prevent motor from overheating.
- Using Z4 class bearing to assure lowest noise.
- Using superior mechanical seal to assure long using life.
- Using heat-resistant capacitor to assure long using life.
- The pumps for boosting the hot water are also available on request.

Application

- Be used to delivery the clean water without the abrasive particles.
- Be used to clean or cool the machine tools with high pressure.
- Be used to pump the water for the industrial or house use from the well or tank.
- Be used to boost the water in pressurization system.

Components&Materials

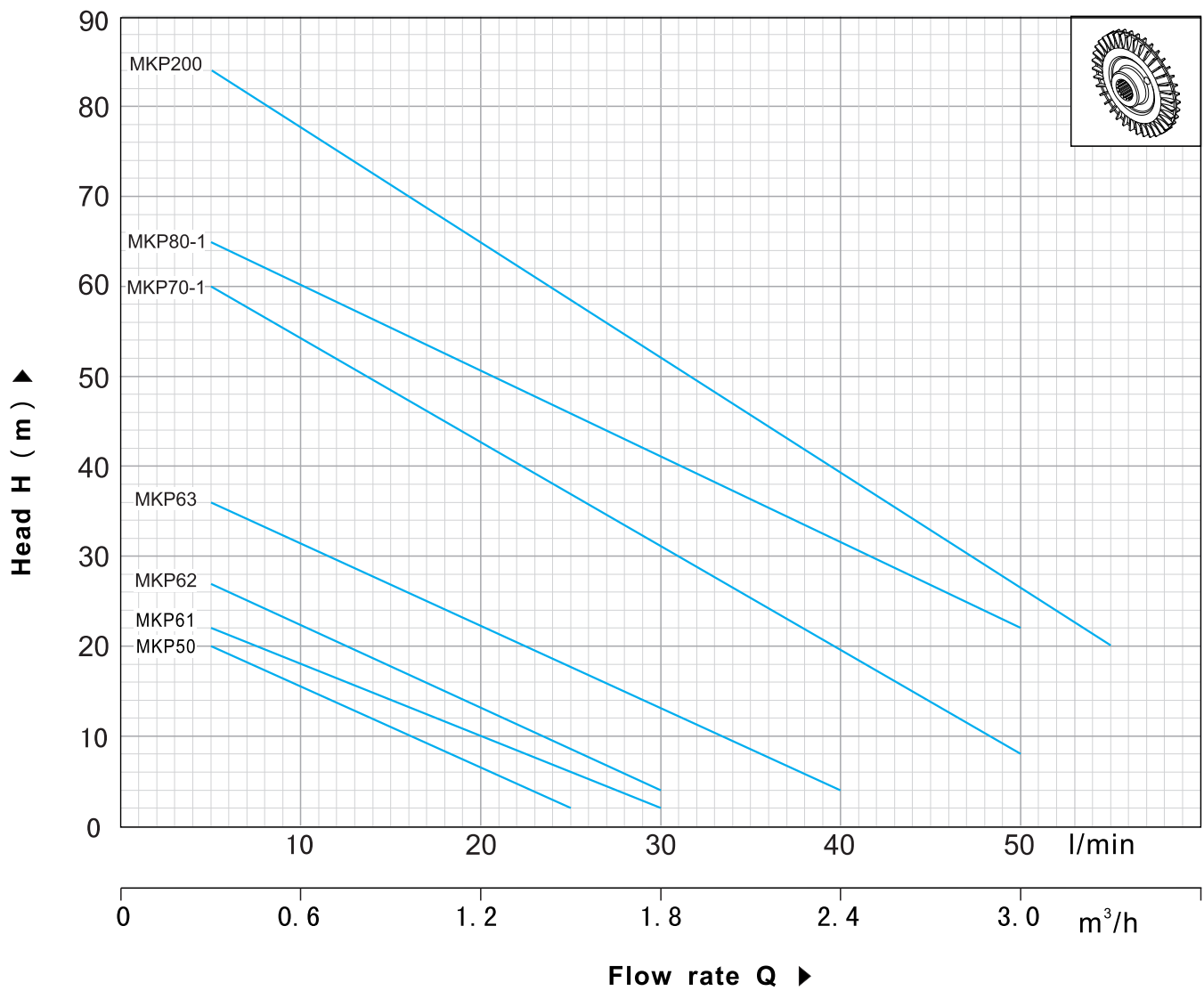
- Pump body: Cast iron (electrophoretic paint with brass insert).
- Impeller: Brass.
- Mechanical seal: Graphite-Ceramic-NBR.
Graphite-Sic-FPM for hot water.
- Bearing: Z4 class.
- Shaft: Stainless steel.

Guarantee

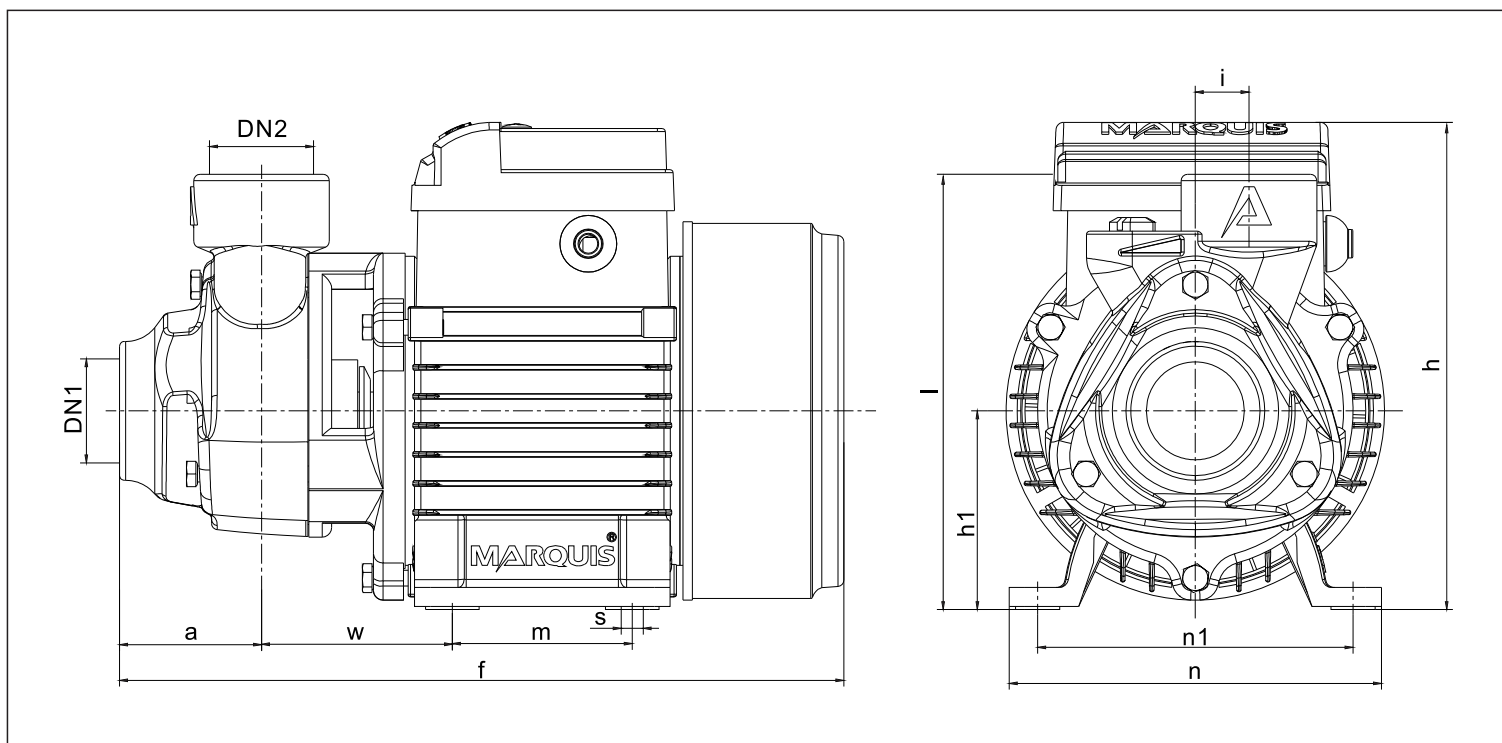
- 2 years subject to terms and conditions.

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n=2850 rpm Hs=0 m



Model		Power		Q	m³/h													
Single-phase	Three-phase	KW	HP		0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.3		
					0	5	10	15	20	25	30	35	40	45	50	55		
MKP50	MK50	0.18	0.25	H m	24	20	15	10	6	2								
MKP61	MK61	0.25	0.33		27	22	18	14	10	6	2							
MKP62	MK62	0.37	0.50		33	27	22	17	12	7	4							
MKP63	MK63	0.42	0.55		40	36	31	26	22	18	14	9	4					
MKP70-1	MK70-1	0.55	0.75		65	60	51	52	44	37	30	22	17	12	8			
MKP80-1	MK80-1	0.75	1		70	65	60	55	50	46	40	36	31	26	22			
MKP200	MK200	1.5	2		90	84	75	70	66	60	55	50	45	34	28	20		



Power		Inlet/Outlet(-)		Dimensions(mm)										
Single-phase	Three-phase	DN1	DN2	a	f	h	h1	i	l	m	n	n1	w	s
MKP50	MK50	1"	1"	40	230	155	63	17	130	57	118	100	60	7
MKP61	MK61	1"	1"	44	256	155	63	20	142	90	120	100	65	7
MKP62	MK62	1"	1"	44	256	155	63	20	142	90	120	100	65	7
MKP63	MK63	1"	1"	44	230	155	63	17	138	57	118	100	60	7
MKP70-1	MK70-1	1'	1'	47	284	180	71	20	164	103	137	110	66	7
MKP80-1	MK80-1	1"	1"	57	305	180	71	20	163	103	137	110	77	7
MKP200	MK200	1"	1"	55	354	200	80	20	174	100	154	125	81	11

Model	Piece	GW(kg)	NW(kg)	Volume(m ³)	L(cm)	W(cm)	H(cm)
MKP50	1	4.3	4	0.007	25.0	15.0	17.5
MKP61	1	5.4	5.16	0.007	25.0	15.0	17.5
MKP62	1	5.6	5.3	0.007	28.0	14.5	17.5
MKP63	1	6.1	5.8	0.007	25.0	15.0	17.5
MKP70-1	1	8.7	8.3	0.010	30.5	16.0	20.0
MKP80-1	1	10.76	10.36	0.011	33.3	16.4	20.7
MKP200	1	18.62	17.46	0.021	39.0	22.0	25.0



Limits of use

- Liquid temperature: $-10^{\circ}\text{C} \sim +60^{\circ}\text{C}$.
- Power: single-phase 220V/50Hz, three-phase 380V/50Hz.
- Max. working pressure: 6.5bar.

Features

- Compact design with attractive appearance.
- Built-in thermal protector to prevent motor from overheating.
- Using Z4 class bearing to assure lowest noise.
- Using superior mechanical seal to assure long using life.
- Using heat-resistant capacitor to assure long using life.
- The pumps for boosting the hot water are also available on request.

Application

- Be used to delivery the clean water without the abrasive particles.
- Be used to clean or cool the machine tools with high pressure.
- Be used to pump the water for the industrial or house use from the well or tank.
- Be used to boost the water in pressurization system.

Components&Materials

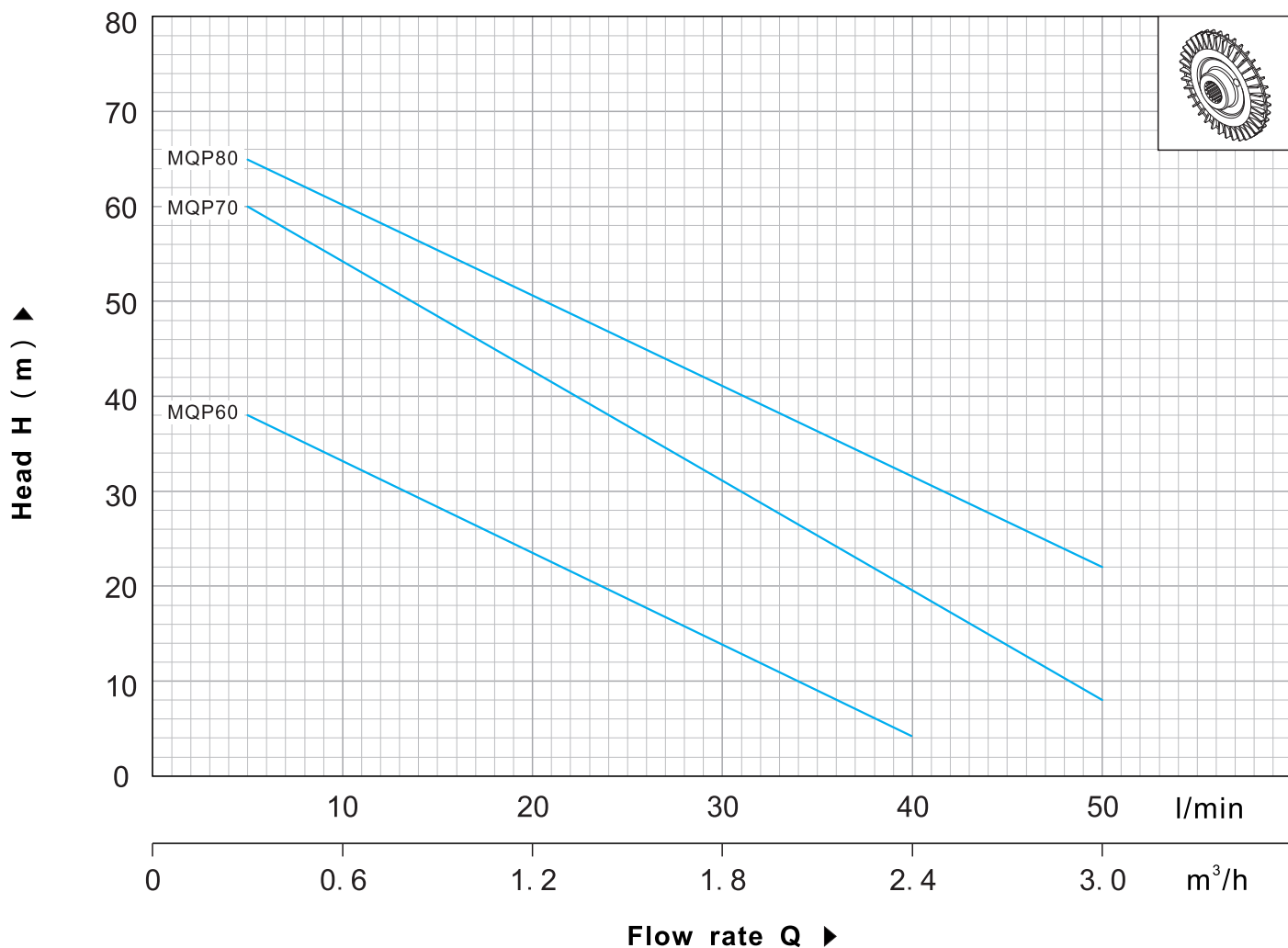
- Pump body: Cast iron (electrophoretic paint).
- Impeller: Brass.
- Mechanical seal: Graphite-Ceramic-NBR.
Graphite-Sic-FPM for hot water.
- Bearing: Z4 class.
- Shaft: Stainless steel.

Guarantee

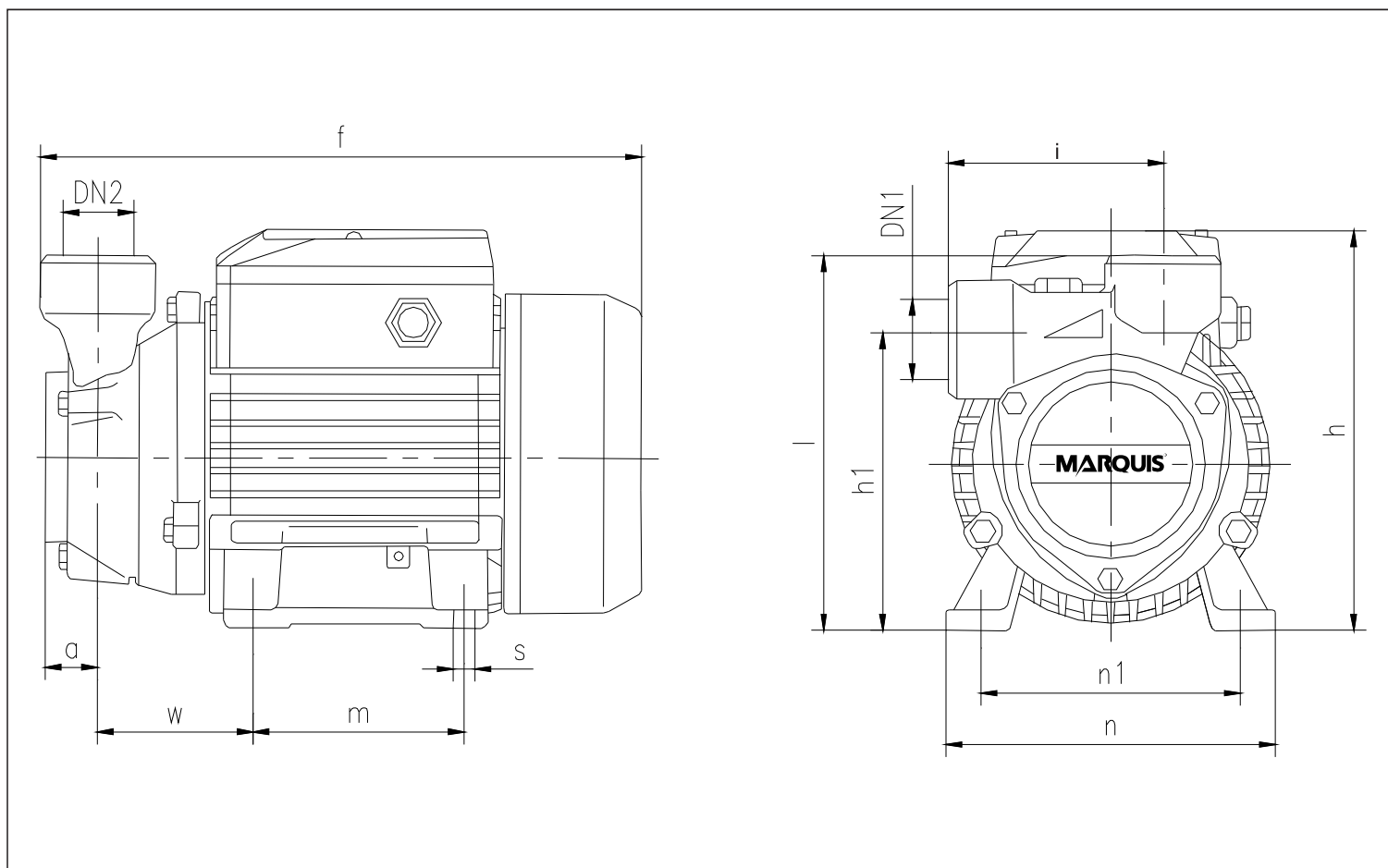
- 2 years subject to terms and conditions.

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n=2850 rpm Hs=0 m



Model		Power		Q	Flow rate														
Single-phase	Three-phase	KW	HP		m³/h	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3			
				l/min	0	5	10	15	20	25	30	35	40	45	50				
MQP60	MQ60	0.37	0.50	H m	40	38	34	29	24	20	15	10	4						
MQP70	MQ70	0.55	0.75		65	60	51	52	44	37	30	22	17	12	8				
MQP80	MQ80	0.75	1		70	65	60	55	50	46	40	36	31	26	22				



Model		Inlet/Outlet(°)		Dimensions(mm)										
Single-phase	Three-phase	DN1	DN2	a	f	h	h1	i	l	m	n	n1	w	s
MQP60	MQ60	1"	1"	21	229	155	112	81	141	90	121	100	65	7
MQP70	MQ70	1'	1'	22	256	180	127	91	164	103	137	110	66	7
MQP80	MQ80	1"	1"	24	272	180	132	95	165	103	137	110	77	7

Model	Piece	GW(kg)	NW(kg)	Volume(m³)	L(cm)	W(cm)	H(cm)
MQP60	1	6	5.7	0.007	28.00	14.50	17.50
MQP70	1	9	8.6	0.010	29.00	17.00	20.80
MQP80	1	10.6	10.2	0.011	30.00	17.00	20.80



Limits of use

- Liquid temperature: $-10^{\circ}\text{C} \sim +60^{\circ}\text{C}$.
- Power: single-phase 220V/50Hz.
- Max. working pressure: 6.5bar.

Features

- Build-in check valve, this pump can be used without charging water again after first water injection.
- This pump can be easily installed through its flanges with screw thread connection with the pipe.
- End-user can easily clean the pump casing through disassembling the impeller cover to prevent the impeller from jam.
- Built-in thermal protector to prevent motor from overheating.

Guarantee

- 2years subject to terms and conditions.

Application

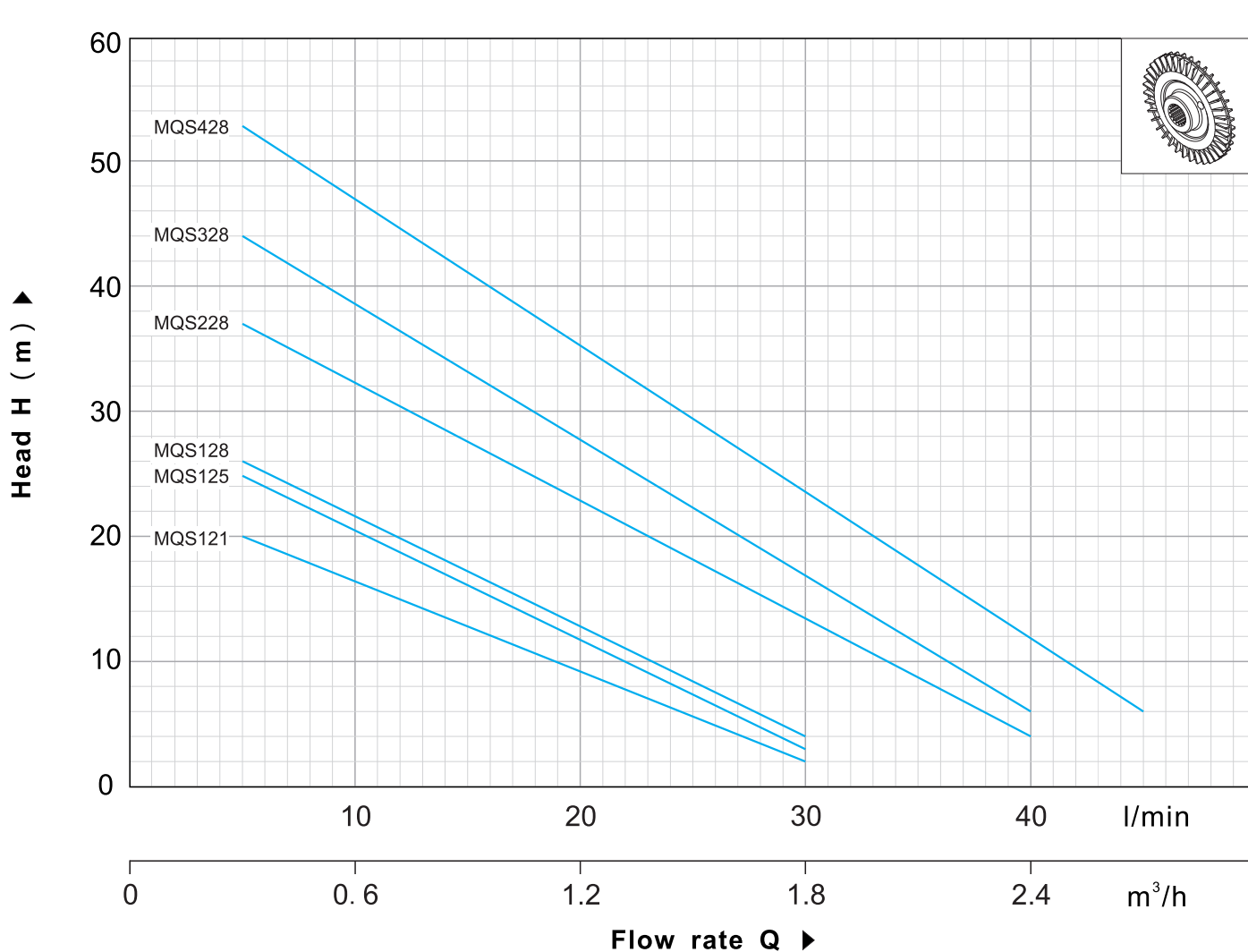
- Be used to delivery the clean water without the abrasive particles.
- Be used to clean or cool the machine tools with high pressure.
- Be used to pump the water for the industrial or house use from the well or tank.
- Be used to boost the water in pressurization system.

Components&Materials

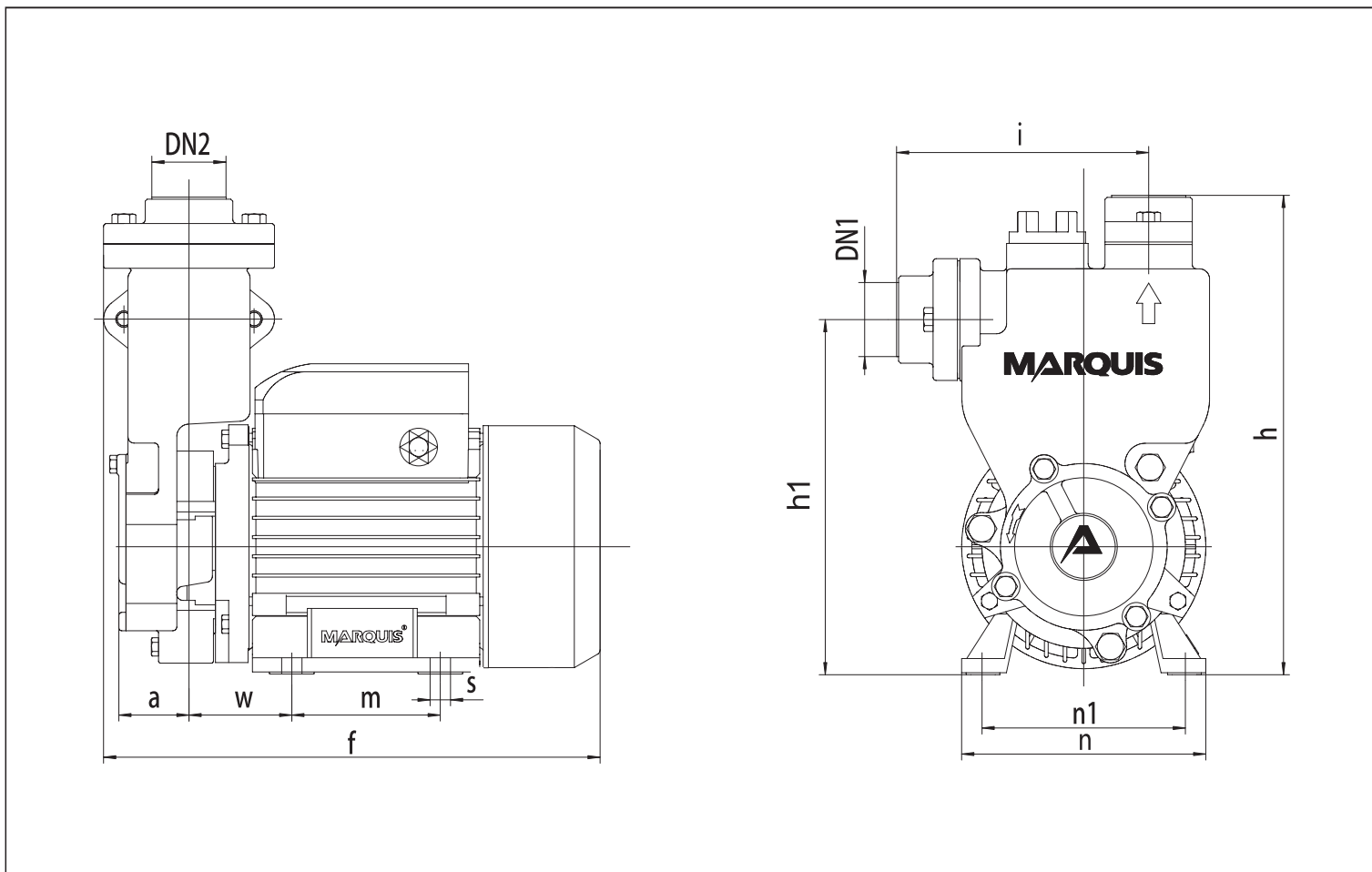
- Pump body: Cast iron (electrophoretic paint with brass insert).
- Impeller: Brass.
- Impeller cover: Brass/Cast iron.
- Mechanical seal: Graphite-Ceramic-NBR.
- Bearing: Z4 class.
- Shaft: Stainless steel.

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n=2850 rpm Hs=0 m



Model	Power		Suction lift Hs m	Q	Flow rate										
	KW	HP			0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	
Single-phase					0	5	10	15	20	25	30	35	40	45	
MQS121	0.25	0.33	8	H m	27	20	15	10	6	3	2				
MQS125	0.37	0.50	8		30	25	20	15	11	6	3				
MQS128	0.37	0.50	8		33	26	22	17	12	7	4				
MQS228	0.45	0.60	8		40	37	33	28	22	18	13	9	4		
MQS328	0.55	0.75	8		50	44	39	33	29	22	16	11	6		
MQS428	0.75	1	8		60	53	46	39	33	26	20	15	10	6	



Model		Inlet/Outlet(*)		Dimensions(mm)									
Single-phase	Three-phase	DN1	DN2	a	f	h	h1	i	m	n	n1	w	s
MQS121	-	1"	1"	16	253	178	116	124	90	121	100	65	7
MQS125	-	1"	1"	35	233	208	146	124	90	121	100	65	7
MQS128	-	1"	1"	35	233	238	176	124	90	121	100	65	7
MQS228	-	1"	1"	42.5	273	252	189	145	103	137	110	60.5	7
MQS328	-	1"	1"	42.5	273	252	189	145	103	137	110	60.5	7
MQS428	-	1"	1"	45	275	255	189	145	103	137	110	60.5	7

Model	Piece	GW(kg)	NW(kg)	Volume(m ³)	L(cm)	W(cm)	H(cm)
MQS121	1	7.3	7	0.009	27.00	16.50	19.50
MQS125	1	7.5	7.2	0.010	25.50	17.50	23.30
MQS128	1	7.8	7.5	0.011	25.70	17.20	25.50
MQS228	1	11	10.5	0.017	30.00	20.50	28.00
MQS328	1	12	11.5	0.017	30.00	20.50	28.00
MQS428	1	13.7	13	0.018	30.00	20.50	30.00



Limits of use

- Liquid temperature:-10°C~ +60°C.
- Power: single-phase 220V/50Hz, three-phase 380V/50Hz.
- Max.working pressure:6.5bar.

Features

- Build-in ejector to make this pump getting higher head compare with centrifugal pump.
- This pump has the self-priming function with big pump casing and get relatively high suction head.
- Using steel ejector and diffuser to assure this pump long using life and high stability.
- Built-in thermal protector to prevent motor from overheating.
- The pumps for boosting hot water are also available on request.

Guarantee

- 2 years subject to terms and conditions.

Application

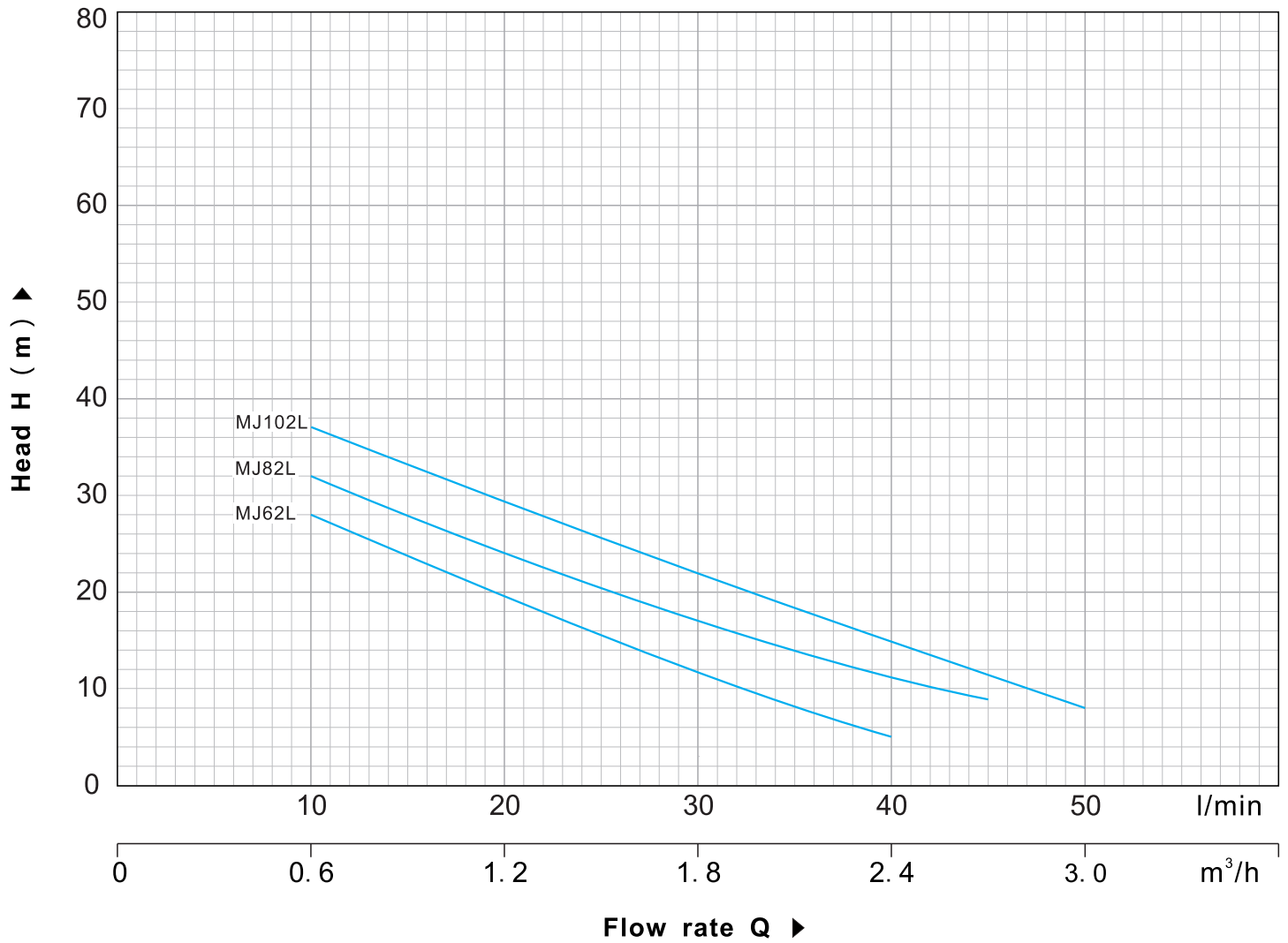
- Be used to delivery the clean water without the abrasive particles.
- Be used to pump the water for the industrial or house use from the well or tank.
- Be used to boost the water in pressurization system.
- Be used to pump the water for the garden or irrigation.

Components&Materials

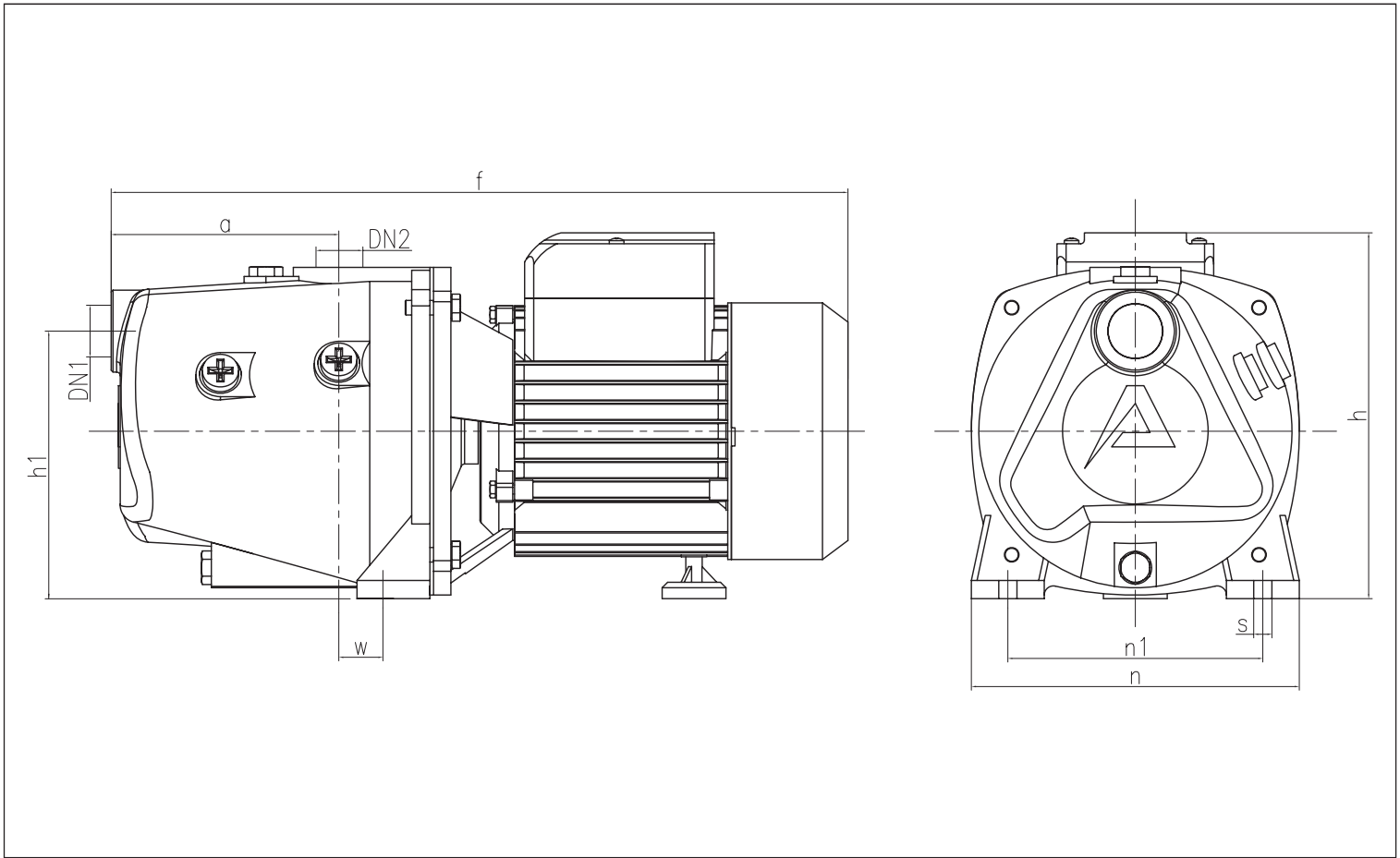
- Pump body:Cast iron with electrophoretic paint.
- Impeller:Brass/Stainless steel 304.
- Ejector: Cast iron with electrophoretic paint.
- Diffuser: Cast iron with electrophoretic paint.
- Mechanical seal: Graphite-Ceramic-NBR.
Graphite-Sic-FPM for hot water.
- Bearing:Z4 class.
- Shaft:Stainless steel.

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n=2850 rpm Hs=0 m



Model		Power		Suction lift	Q	m³/h	0	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0	
Single-phase	Three-phase	KW	HP	Hs m		l/min	0	10	15	20	25	30	35	40	45	50	
MJ62L	-	0.37	0.50	8	H m	36	28	23	20	17	15	13	5				
MJ82L	-	0.55	0.75	8		41	32	28	25	22	20	17	15	9			
MJ102L	-	0.75	1	8		46	37	34	31	28	25	23	20	17	8		



Model		Inlet/Outlet(“)		Dimensions(mm)							
Single-phase	Three-phase	DN1	DN2	a	f	h	h1	n	n1	w	s
MJ62L	-	1"	1"	140	386	188	132	180	140	12	10
MJ82L	-	1"	1"	140	415	201	132	180	140	12	10
MJ102L	-	1"	1"	140	415	201	132	180	140	12	10

Model	Piece	GW(kg)	NW(kg)	Volume(m ³)	L(cm)	W(cm)	H(cm)
MJ62L	1	14.1	13.6	0.018	42.5	21.0	21.0
MJ82L	1	15	14.5	0.020	44.0	21.0	22.0
MJ102L	1	15.8	15.3	0.020	44.0	21.0	22.0



Limits of use

- Liquid temperature:-10°C~+60°C.
- Power:single-phase 220V/50Hz.
- Max.working pressure:6.5bar.

Features

- Build-in ejector to make this pump getting higher head compare with centrifugal pump.
- This pump has the self-priming function with big pump casing and get relatively high suction head.
- Through the little adjustment on the ejector to get different combination of head and flow for different use without cost change.
- Built-in thermal protector to prevent motor from overheating.

Guarantee

- 2 years subject to terms and conditions.

Application

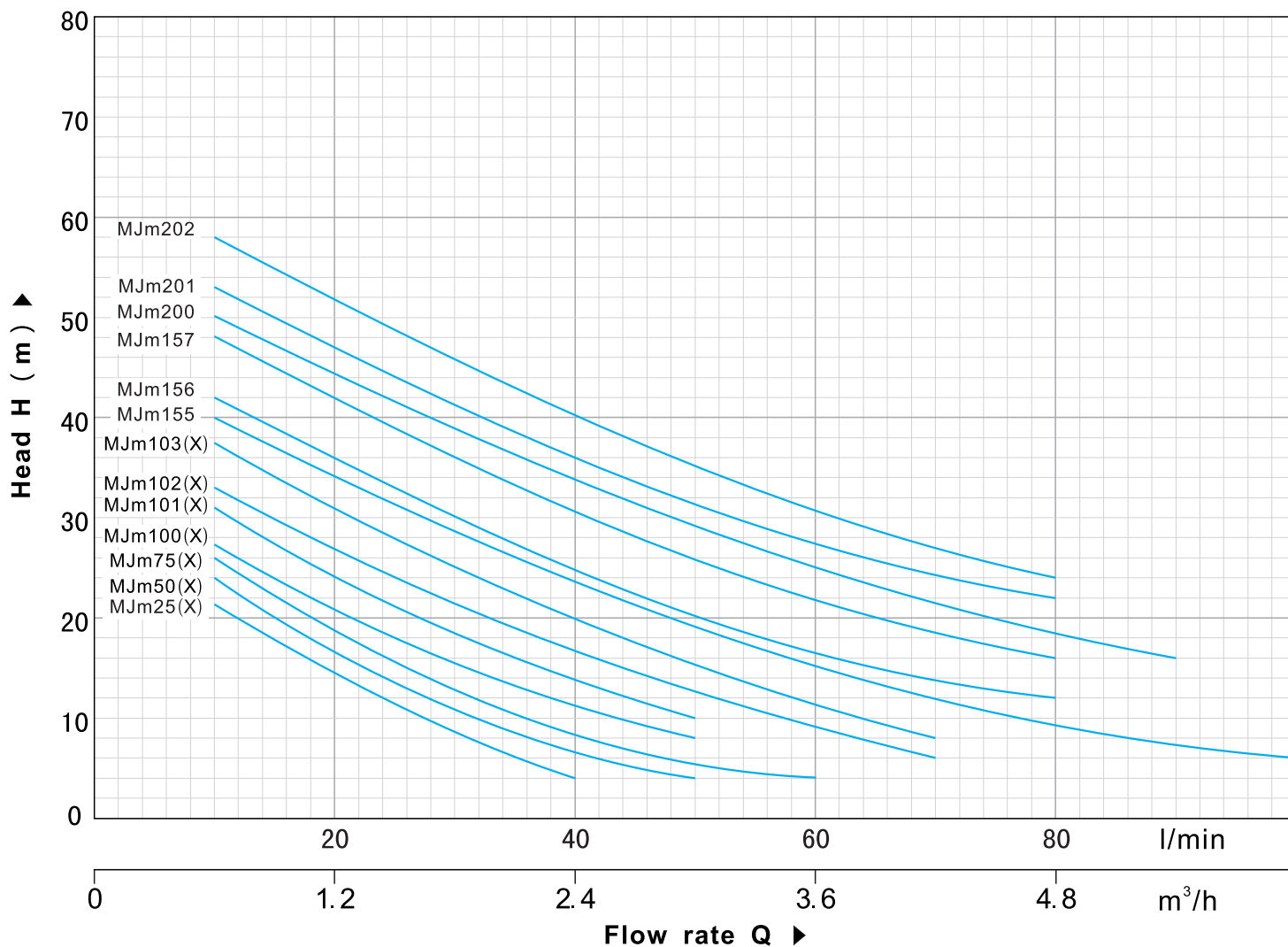
- Be used to delivery the clean water without the abrasive particles.
- Be used to pump the water for the industrial or house use from the well or tank.
- Be used to boost the water in pressurization system.
- Be used to pump the water for the garden or irrigation.

Components&Materials

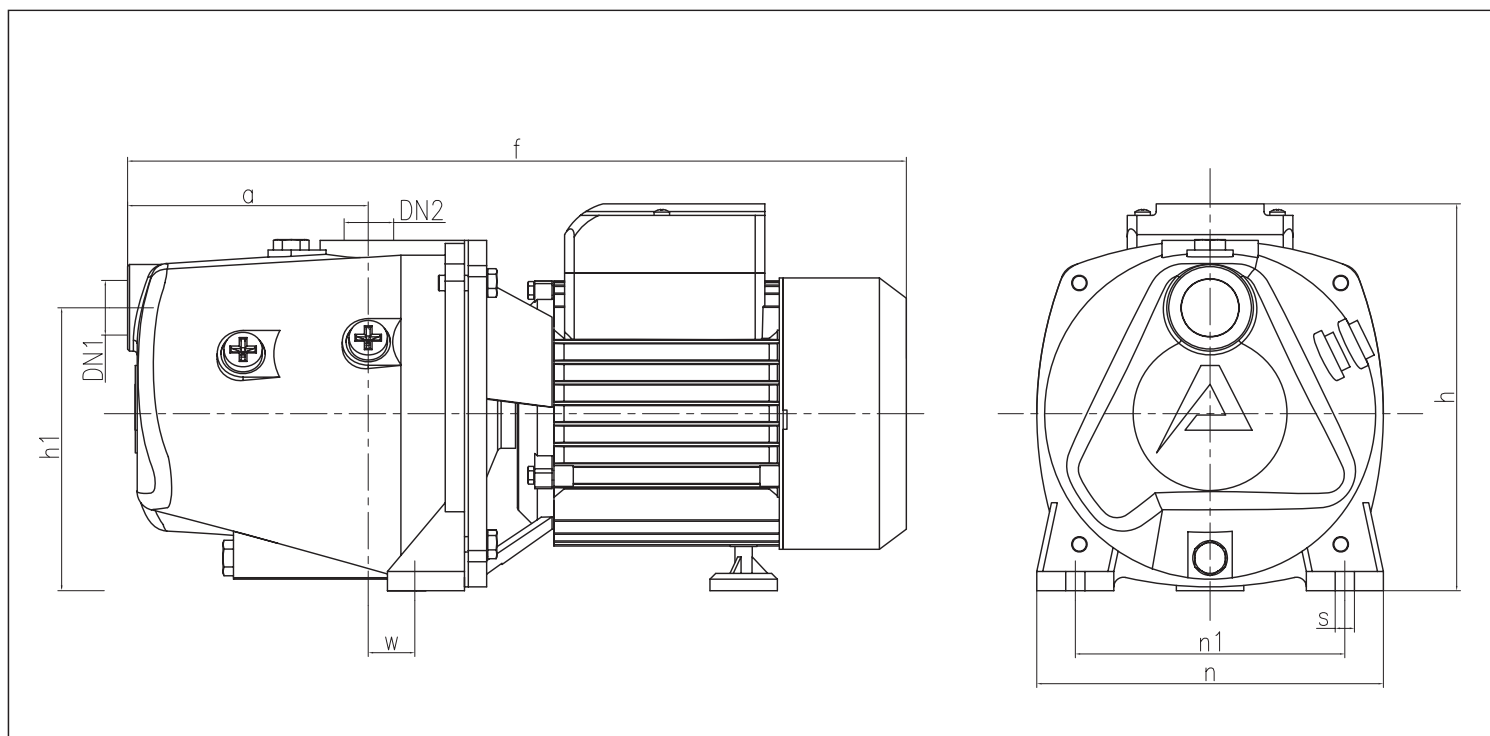
- Pump body:Cast iron with electrophoretic paint.
- Impeller:Brass/Stainless steel 304/"X" – PPO impeller.
- Ejector: PPO.
- Diffuser: PPO.
- Mechanical seal: Graphite-Ceramic-NBR .
- Bearing:Z4 class.
- Shaft:Stainless steel.

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n=2850 rpm Hs=0 m



Model	Power		Suction lift Hs m	Q	Flow rate																		
	KW	HP			m ³ /h	0	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.6	4.2	4.8	5.4	6.0			
Single-phase					l/min	0	10	15	20	25	30	35	40	45	50	60	70	80	90	100			
MJm25(X)	0.25	0.33	8	H m	27	21	18	15	13	10	7	4											
MJm50(X)	0.37	0.50	8		30	24	22	19	16	13	10	8	6	4									
MJm75(X)	0.55	0.75	8		32	26	23	20	17	15	13	10	8	5	4								
MJm100(X)	0.55	0.75	8		33	27	25	22	19	17	14	12	10	8									
MJm101(X)	0.75	1	8		38	31	28	25	22	20	17	15	12	10									
MJm102(X)	0.75	1	8		40	33	30	27	25	22	19	17	15	12	9	6							
MJm103(X)	0.75	1	8		43	37	34	31	28	25	23	20	17	15	12	8							
MJm155	1.1	1.5	8		45	40	37	34	31	29	27	24	22	20	16	13	10	8	6				
MJm156	1.1	1.5	8		47	42	39	37	34	32	29	27	25	23	19	17	12						
MJm157	1.1	1.5	8		53	48	45	42	39	37	35	32	30	28	23	20	16						
MJm200	1.5	2	8		55	50	47	45	43	40	37	35	33	30	26	23	19	16					
MJm201	1.5	2	8		58	53	51	48	45	43	41	38	36	34	29	25	22						
MJm202	1.5	2	8		65	58	55	52	49	46	44	41	39	36	32	28	24						



Model	Inlet/Outlet(″)		Dimensions(mm)							
	DN1	DN2	a	f	h	h1	n	n1	w	s
MJm25(X)	1″	1″	96.5	354	180	135	170	132	23	10
MJm50(X)	1″	1″	126	377.5	180	147	180	140	23	10
MJm75(X)	1″	1″	126	406	200	147	180	140	25	10
MJm100(X)	1″	1″	126	406	200	147	180	140	25	10
MJm101(X)	1″	1″	126	406	200	147	180	140	25	10
MJm102(X)	1″	1″	126	406	200	147	180	140	25	10
MJm103(X)	1″	1″	126	406	200	147	180	140	25	10
MJm155	1 1/4″	1″	137	473	236	165	206	160	30	10
MJm156	1 1/4″	1″	137	473	236	165	206	160	30	10
MJm157	1 1/4″	1″	137	473	236	165	206	160	30	10
MJm200	1 1/4″	1″	137	473	236	165	206	160	30	10
MJm201	1 1/4″	1″	137	473	236	165	206	160	30	10
MJm202	1 1/4″	1″	137	473	236	165	206	160	30	10

Model	Piece	GW(kg)	NW(kg)	Volume(m³)	L(cm)	W(cm)	H(cm)
MJm25(X)	1	9.8	9.4	0.016	38.00	20.00	21.00
MJm50(X)	1	12.4	13.0	0.019	42.50	21.00	21.00
MJm75(X)	1	14.1	13.6	0.020	43.00	20.50	22.60
MJm100(X)	1	14.1	13.6	0.020	43.00	20.50	22.60
MJm101(X)	1	15.1	14.6	0.020	43.00	20.50	22.60
MJm102(X)	1	15.3	14.8	0.020	43.00	20.50	22.60
MJm103(X)	1	15.6	15.1	0.020	43.00	20.50	22.60
MJm155	1	23.2	22.7	0.030	50.00	23.00	26.00
MJm156	1	23.4	22.9	0.030	50.00	23.00	26.00
MJm157	1	23.4	22.9	0.030	50.00	23.00	26.00
MJm200	1	24.5	23.9	0.030	50.00	23.00	26.00
MJm201	1	25	24.4	0.030	50.00	23.00	26.00
MJm202	1	25	24.4	0.030	50.00	23.00	26.00



Limits of use

- Liquid temperature:-10°C~ +60°C.
- Power : single-phase 220V/50Hz, three-phase 380V/50Hz.
- Max.working pressure:6.5bar.

Features

- Build-in ejector to make this pump getting higher head compare with centrifugal pump.
- This pump has the self-priming function with big pump casing and get relatively high suction head.
- Build with the handle to make the pump easy to carry.
- Built-in thermal protector to prevent motor from overheating.

Guarantee

- 2 years subject to terms and conditions.

Application

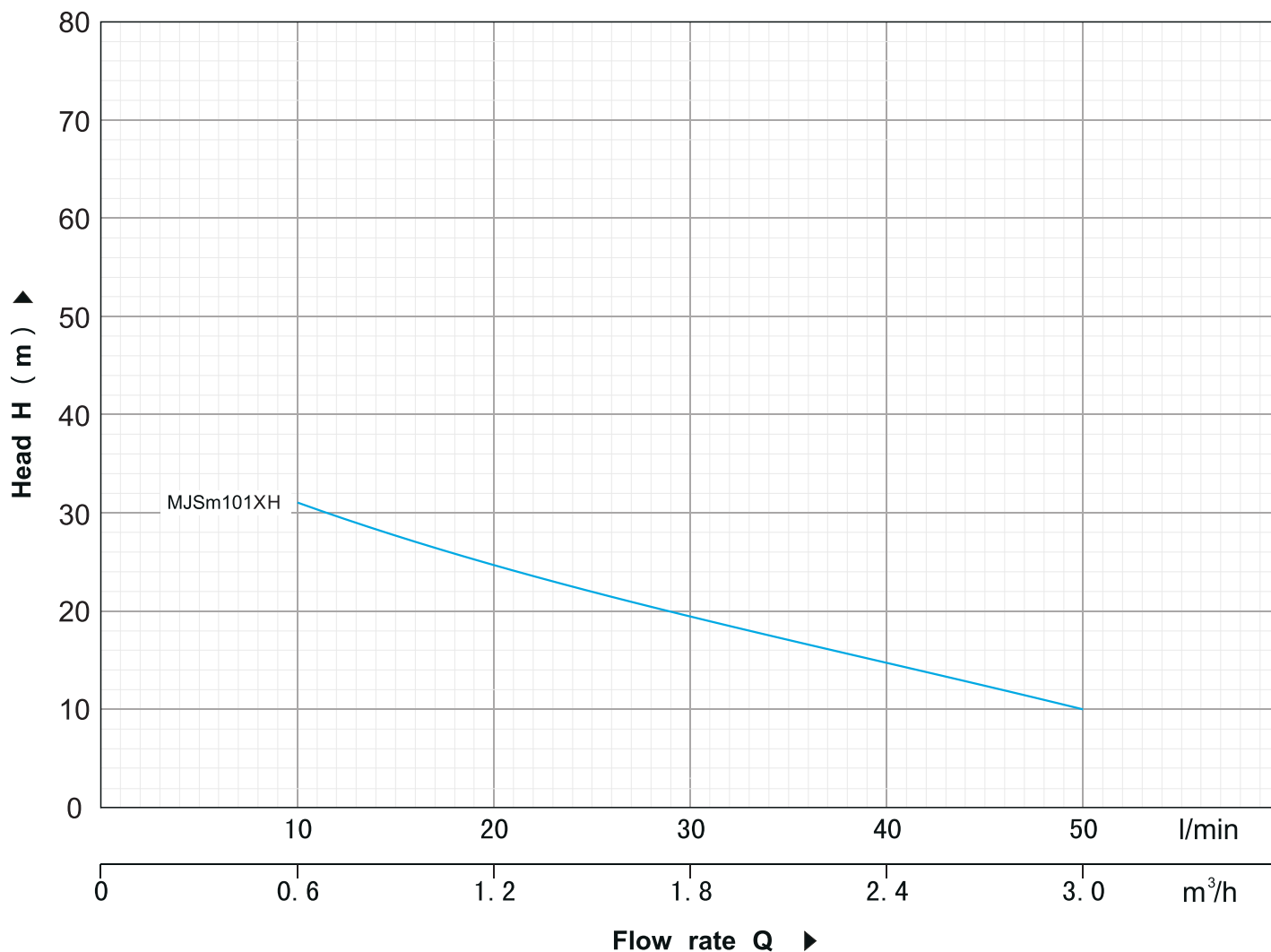
- Be used to delivery the clean water without the abrasive particles.
- Be used to pump the water for the industrial or house use from the well or tank.
- Be used to boost the water in pressurization system.
- Be used to pump the water for the garden or irrigation.

Components&Materials

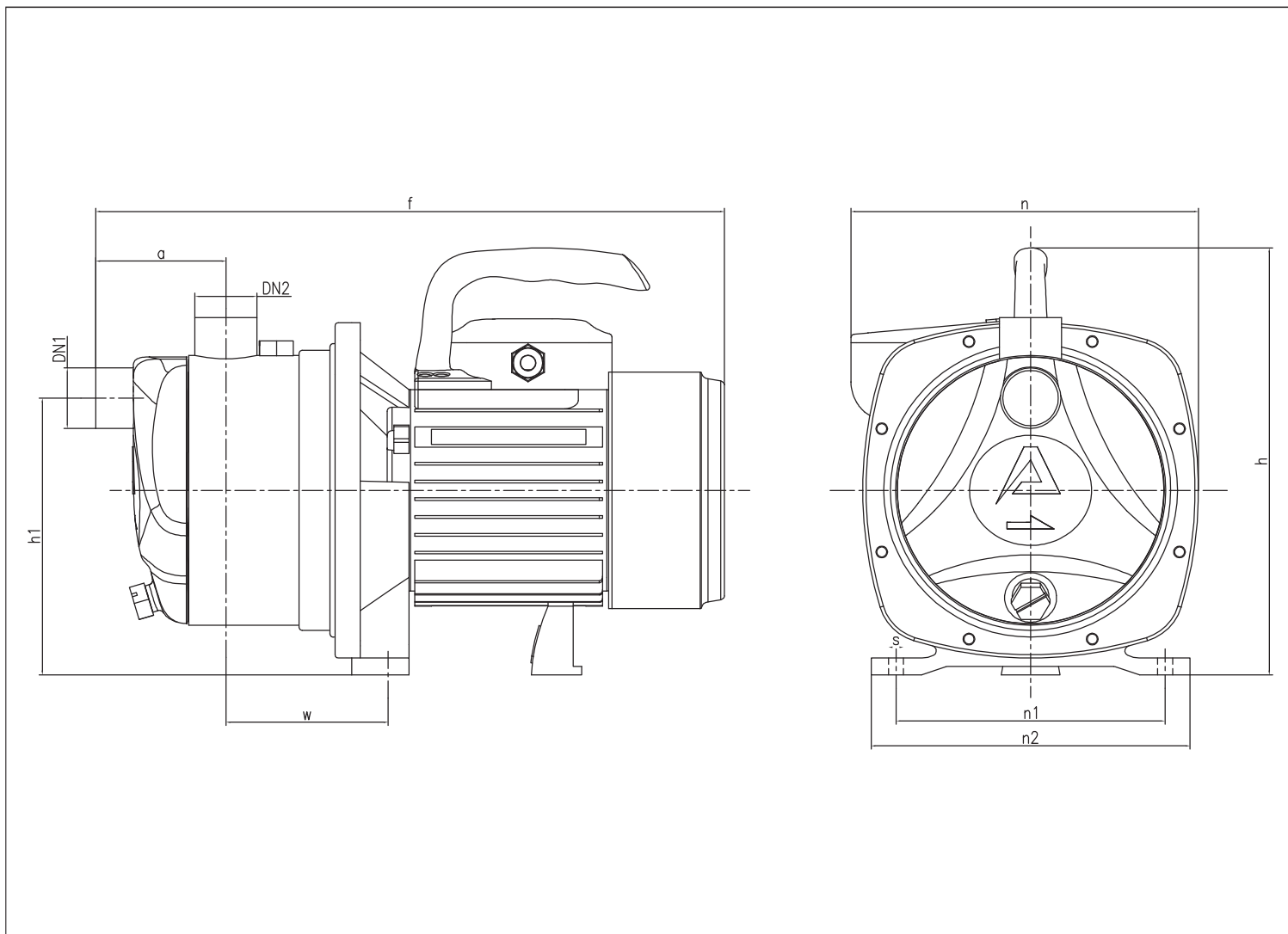
- Pump body: Stainless steel 304.
- Impeller:PPO.
- Ejector: PPO.
- Diffuser: PPO.
- Mechanical seal: Graphite-Ceramic-NBR.
- Bearing:Z4 class.
- Shaft:Stainless steel.

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n=2850 rpm Hs=0 m



Model		Power		Suction lift Hs m	Q	Flow rate										
		KW	HP			m³/h	0	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0
Single-phase						l/min	0	10	15	20	25	30	35	40	45	50
MJSm101XH	MJS101XH	0.75	1	8	H _m		38	31	28	25	22	20	17	15	12	10



Model		Inlet/Outlet(°)		Dimensions(mm)								
Single-phase	Three-phase	DN1	DN2	a	f	h	h1	n	n1	n2	w	s
MJSm101XH	MJS101XH	1"	1"	77.5	368.5	267	165	207	160	190	94	9

Model	Piece	GW(kg)	NW(kg)	Volume(m³)	L(cm)	W(cm)	H(cm)
MJSm101XH	1	9.8	9.3	0.028	40.0	24.0	30.0



Limits of use

- Liquid temperature:-10°C~ +60°C.
- Power: single-phase 220V/50Hz.
- Max.working pressure:6.5bar.

Features

- Build-in ejector to make this pump getting higher head compare with centrifugal pump.
- This pump has the self-priming function with big pump casing and get relatively high suction head.
- Through the little adjustment on the ejector to get different combination of head and flow for different use without cost change.
- Built-in thermal protector to prevent motor from overheating.

Guarantee

- 2 years subject to terms and conditions.

Application

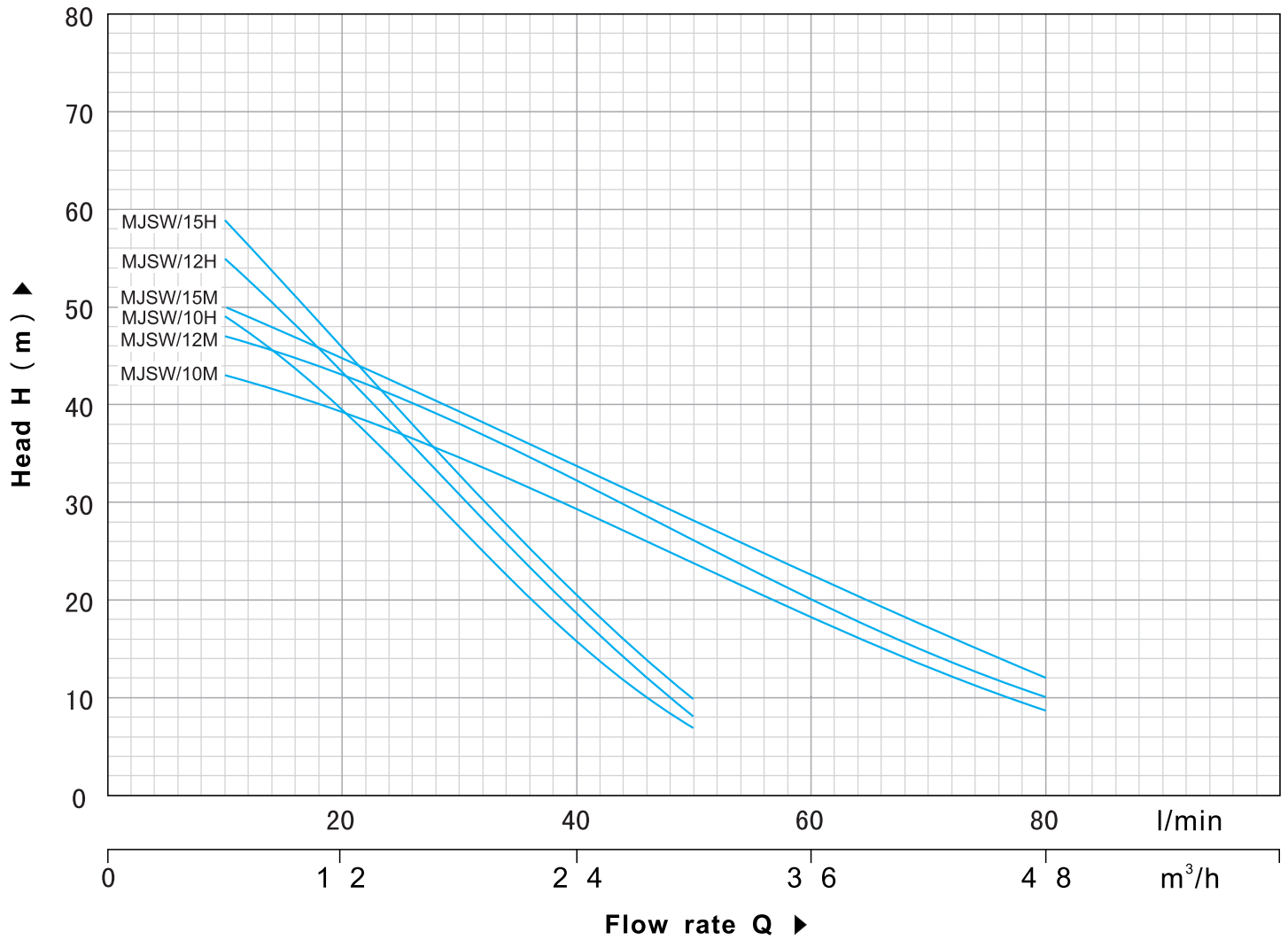
- Be used to delivery the clean water without the abrasive particles.
- Be used to pump the water for the industrial or house use from the well or tank.
- Be used to boost the water in pressurization system.
- Be used to pump the water for the garden or irrigation.

Components&Materials

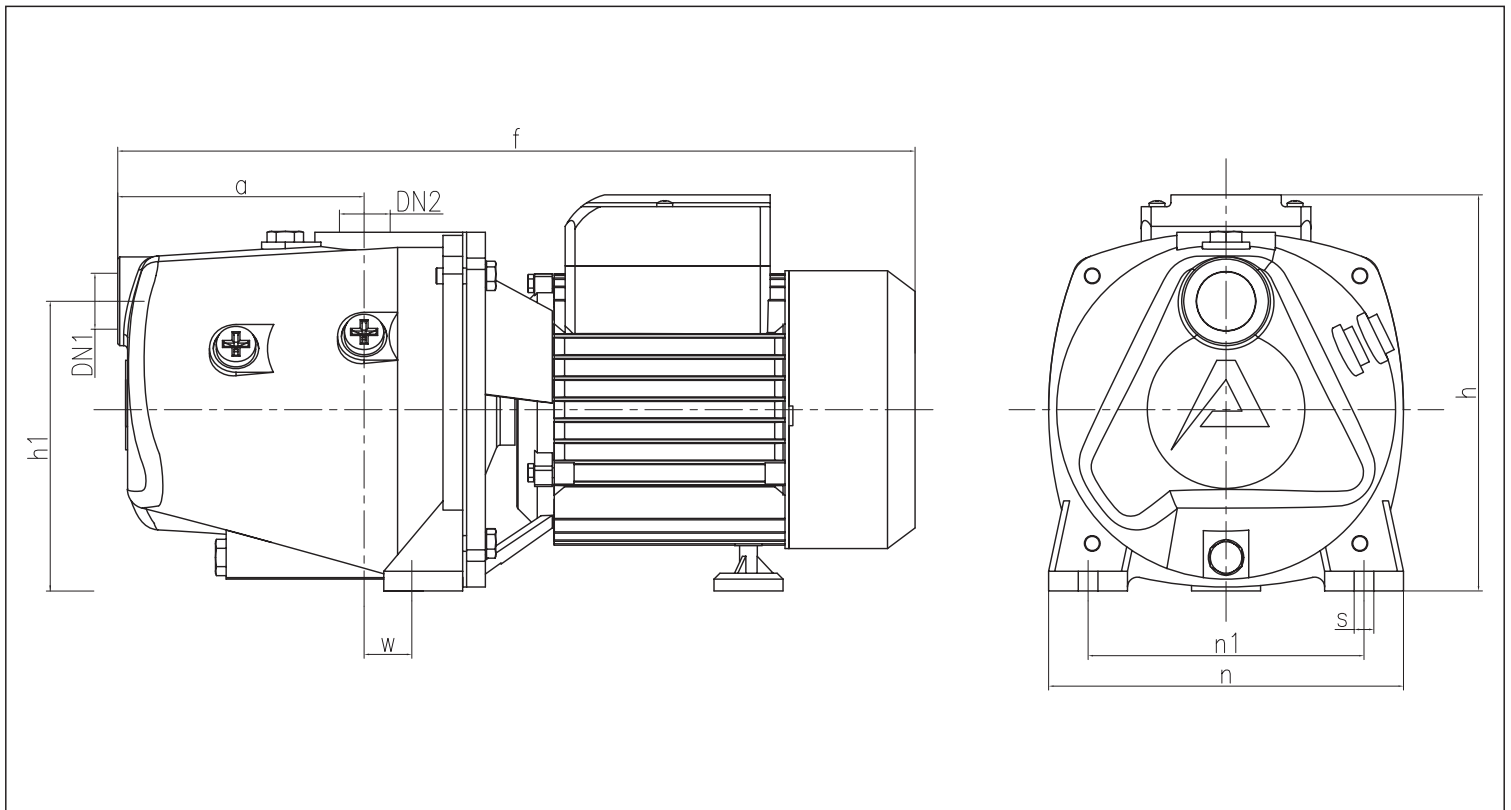
- Pump body:Cast iron with electrophoretic paint.
- Impeller:Brass.
- Ejector: PPO.
- Diffuser: PPO.
- Mechanical seal: Graphite-Ceramic-NBR.
- Bearing:Z4 class.
- Shaft:Stainless steel.

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n=2850 rpm Hs=0 m



Model	Power		Suction lift Hs m	Q	Flow rate													
	KW	HP			m³/h	0	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.6	4.2	4.8
Single-phase					l/min	0	10	15	20	25	30	35	40	45	50	60	70	80
MJSW/10H	0.75	1	8	H m		56	49	44	37	31	26	21	17	11	7			
MJSW/12H	0.9	1.25	8			64	55	48	41	35	29	23	19	13	8			
MJSW/15H	1.1	1.5	8			70	59	53	46	38	33	25	21	15	10			
MJSW/10M	0.75	1	8			46	43	41	39	35	33	31	28	25	21	17	11	9
MJSW/12M	0.9	1.25	8			50	47	45	41	39	35	33	31	28	23	19	13	10
MJSW/15M	1.1	1.5	8			55	50	46	44	42	38	36	33	31	29	22	16	12



Model	Inlet/Outlet(″)		Dimensions(mm)							
	DN1	DN2	a	f	h	h1	n	n1	w	s
MJSW/10H	1″	1″	126	406	200	147	180	140	25	10
MJSW/12H	1″	1″	126	406	200	147	180	140	25	10
MJSW/15H	1″	1″	126	406	200	147	180	140	25	10
MJSW/10M	1″	1″	126	406	200	147	180	140	25	10
MJSW/12M	1″	1″	126	406	200	147	180	140	25	10
MJSW/15M	1″	1″	126	406	200	147	180	140	25	10

Model	Piece	GW(kg)	NW(kg)	Volume(m ³)	L(cm)	W(cm)	H(cm)
MJSW/10H	1	15.1	14.9	0.020	43.80	19.6	23.5
MJSW/12H	1	15.3	15.0	0.020	43.80	19.6	23.5
MJSW/15H	1	15.6	15.1	0.020	43.80	19.6	23.5
MJSW/10M	1	15.1	14.9	0.020	43.80	19.6	23.5
MJSW/12M	1	15.3	15.0	0.020	43.80	19.6	23.5
MJSW/15M	1	15.6	15.1	0.020	43.80	19.6	23.5



Limits of use

- Liquid temperature:-10°C~ +60°C.
- Power: single-phase 220V/50Hz, three-phase 380V/50Hz.
- Max.working pressure:10bar.

Features

- Equipped with the external ejector to make this pump get higher head and suction.
- Can supply two kind of ejector for 2”and 4” well to meet different use.
- Can be used pump the water from deep well but install the pump on the surface,it is easily to take care on the operation and maintenance, thus reduce the cost.
- Built-in thermal protector to prevent motor from overheating.

Guarantee

- 2 years subject to terms and conditions

Application

- Be used to delivery the clean water without the abrasive particles.
- Be used to pump the water for the industrial or house use from the deep well.
- Be used to boost the water in pressurization system.

Components&Materials

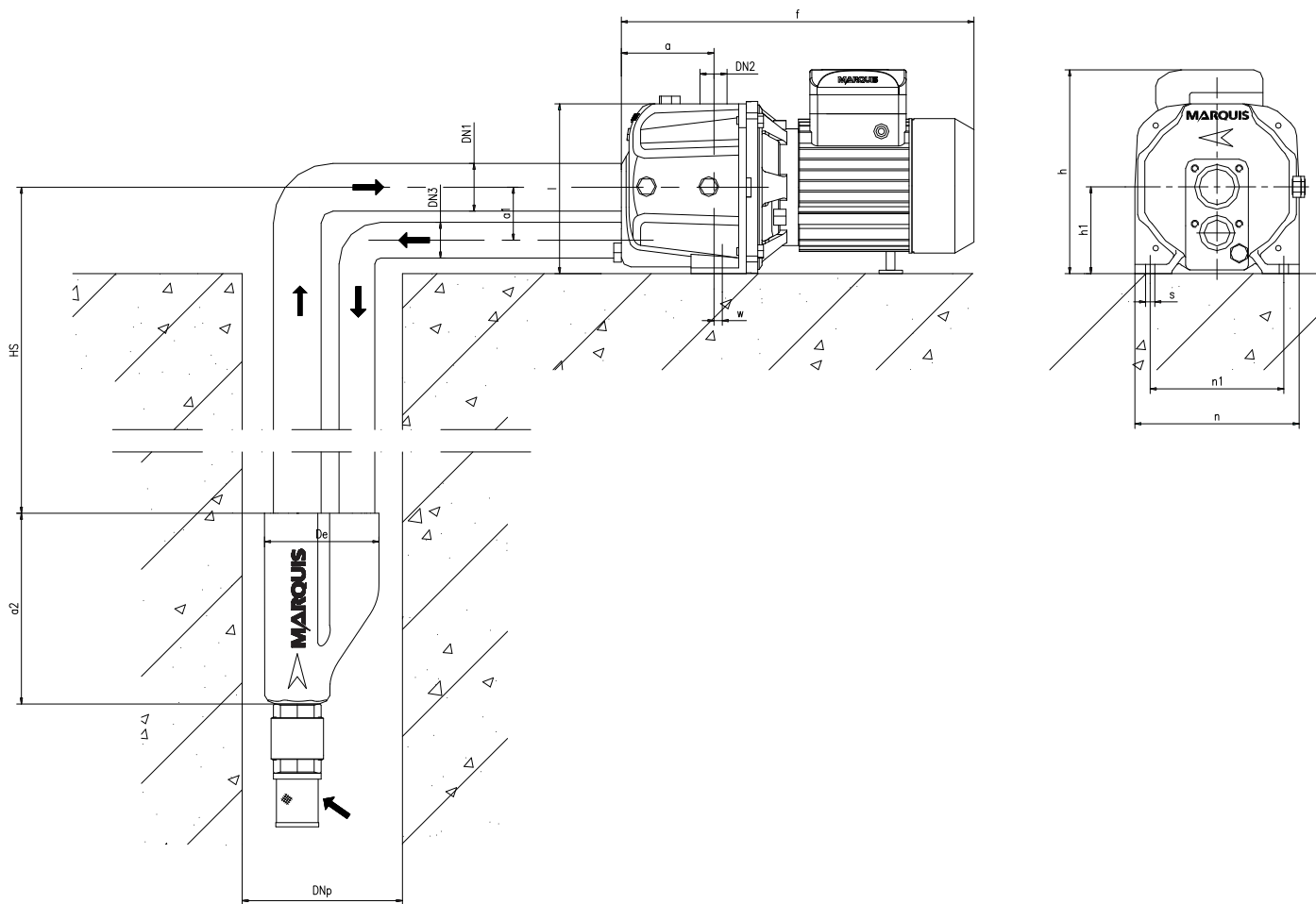
- Pump body:Cast iron with electrophoretic paint.
- Impeller:Brass.
- Ejector: PPO.
- Diffuser: PPO.
- Mechanical seal: Graphite-Ceramic-NBR.
- Bearing:Z4 class.
- Shaft:Stainless steel.

Specification

- Suction range: 9-21m.
- Flow(maximum): 2040 l/h.
- Deep well 4".



Model		Power		Suction lift Hs m	Q l/h																			
Single-phase	Three-phase	KW	HP		0	120	240	360	480	600	720	840	960	1082	1200	1320	1440	1560	1680	1800	1920	2040		
MJWm75-4"	MJW75-4"	0.55	0.75	9	35	33	31.5	30	28.5	27	25.5	24.5	23	22	20.5	19.5	18.5	18						
				12	32	30	28.5	27	25.5	24	22.5	21.5	20	19	17.5									
				15	29	27	25.5	24	22.5	21	19.5	18.5	17											
				18	26	24	22.5	21	19.5	18														
MJWm100-4"	MJW100-4"	0.75	1	9	46	44	42	40	38	36	34.5	33	31.5	30	28.5	27.5	26.5	25.5	24	23	22	21		
				12	43	41	39	37	35	33	31.5	30	28.5	27	25.5	24.5	23.5	22.5	21					
				15	40	38	36	34	32	30	28.5	27	25.5	24	22.5	21.5	20.5							
				18	37	35	33	31	29	27	25.5	24	22.5	21	19.5	18.5	17.5							
				21	34	32	30	28	26	24	22.5	21	19.5	18										
MJWm150-4"	MJW150-4"	1.1	1.5	9	62	61	60	59	58	57	56	55	54	53	52	51	50.5	50	49	48.5	47.5	46.5		
				12	59	58	57	56	55	54	53	52	51	50	49	48	47.5	47	46	45.5	44.5	43.5		
				15	56	55	54	53	52	51	50	49	48	47	46	45	44.5	44	43	42.5	41.5	40.5		
				18	53	52	51	50	49	48	47	46	45	44	43	42	41.5	41	40	39.5				



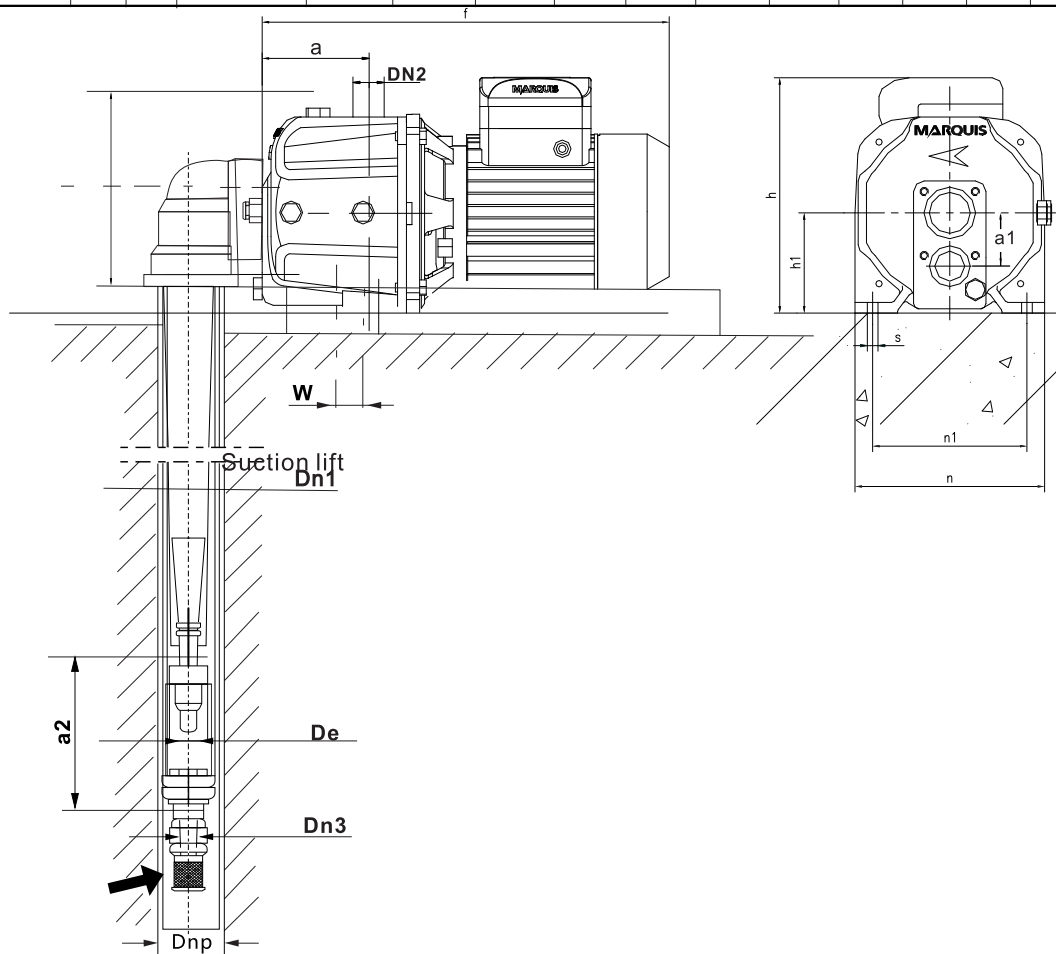
Specification

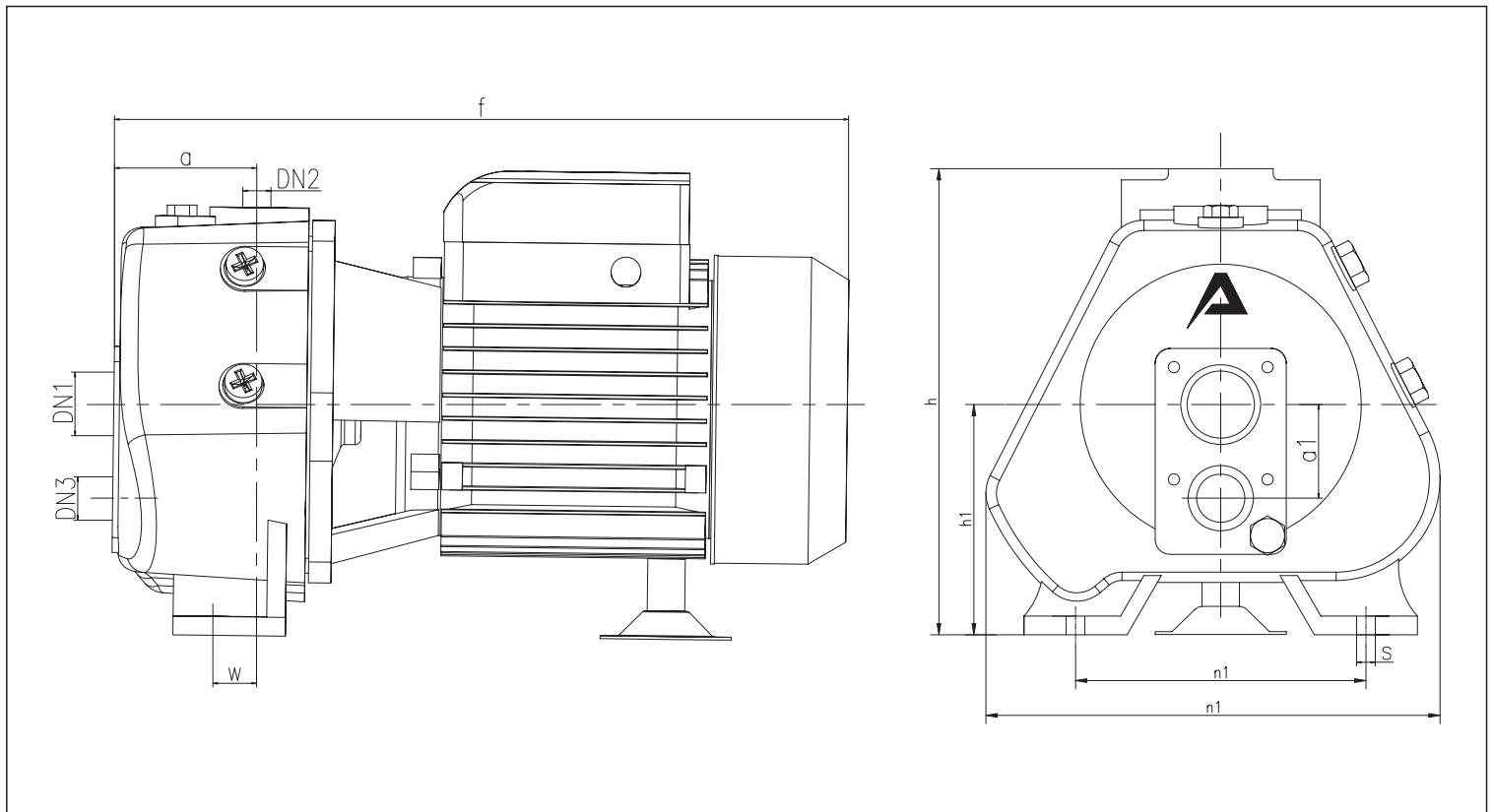
- Suction range:9-30m.
- Flow(maximum):1560 l/h.
- Deep well 2".



2" injector

Model		Power		Suction lift Hs m	Q l/h														
Single-phase	Three-phase	KW	HP		0	120	240	360	480	600	720	840	960	1082	1200	1320	1440	1560	
MJWm75-2"	MJW75-2"	0.55	0.75	9	35	33	31	30	28.5	27	25.5	24.5	23	22	20	19	18		
				12	32	30	28	27	25.5	24	22.5	21.5	20	19	17				
				15	29	27	25	24	22.5	21	19.5	18.5	17						
MJWm100-2"	MJW100-2"	0.75	1	9	46	44	42	40	38	36	34	32	31	30	28	27	26	25	
				12	43	41	39	37	35	33	31	29	28	27	25	24	23		
				15	40	38	36	34	32	30	28	26	25	24	22	21			
				18	37	36	33	31	29	27	25	23	22	21	19				
MJWm150-2"	MJW150-2"	1.1	1.5	21	34	31	30	28	26	24	22	20	19						
				9	62	61	60	59	58	57	56	55	54	53	52	51	50	49	
				12	59	58	57	56	55	54	53	52	51	50	49	48	47		
				15	56	55	54	53	52	51	50	49	48	47	46	45			
				18	53	52	51	50	49	48	47	46	45	44					
				21	50	49	48	47	46	45	44	43	42						
				24	47	46	45	44	43	42	41	40							
27	44	43	42	41	40	39	38												
30	41	40	39	38	37	36													





Power		Dimensions(mm)															
Single-phase	Three-phase	well diameter(″)	DN1	DN2	DN3	De	a	a1	a2	f	h	h1	l	n	n1	w	s
MJWm75-4″	MJW75-4″	4″	1 1/4″	1″	1″	96	75	50	160	360	201	92	182	180	145	30	10
MJWm100-4″	MJW100-4″	4″	1 1/4″	1″	1″	96	75	50	160	360	201	92	182	180	145	30	10
MJWm150-4″	MJW150-4″	4″	1 1/4″	1″	1″	96	76	50	160	389	249	123	228	210	155	17	10

Power		Dimensions(mm)														
Single-phase	Three-phase	well diameter(″)	DN1	DN2	De	a	a1	a2	f	h	h1	l	n	n1	w	s
MJWm75-2″	MJW75-2″	2″	1 1/4″	1″	48	75	50	254	360	201	92	182	180	145	30	10
MJWm100-2″	MJW100-2″	2″	1 1/4″	1″	48	75	50	254	360	201	92	182	180	145	30	10
MJWm150-2″	MJW150-2″	2″	1 1/4″	1″	48	76	50	254	389	249	123	228	210	155	17	10

Model	Piece	GW(kg)	NW(kg)	Volume(m ³)	L(cm)	W(cm)	H(cm)
MJWm75-2″	1	17.2	16.7	0.026	40.0	29.5	22.0
MJWm100-2″	1	19.4	18.5	0.026	40.0	29.5	22.0
MJWm150-2″	1	29.9	27.9	0.039	42.0	35.0	27.0
MJWm75-4″	1	17.6	17.1	0.026	40.0	29.5	22.0
MJWm100-4″	1	19.4	18.9	0.026	40.0	29.5	22.0
MJWm150-4″	1	30.3	28.3	0.050	46.0	39.0	28.0



Limits of use

- Liquid temperature: 0°C ~ +60°C.
- Power: single-phase 220V/50Hz, three-phase 380V/50Hz.
- Max. working pressure: 6bar.

Features

- The open impeller design allows liquids containing relatively high levels of impurities to be pumped without the risk of the impeller clogging.
- The special design on the pump casing and impeller to assure relatively high flow.
- Wide range voltage 180-240V is allowed for this pump, very suitable for the use in irrigation.
- Built-in thermal protector to prevent motor from overheating.
- The pumps for boosting hot water are also available on request.

Application

- Be used to delivery the water in sewage treatment system.
- Be used to delivery the water in agriculture, garden, mining etc.
- Be used to pump the water from the canals, rivers, reservoirs for the industrial use.

Components & Materials

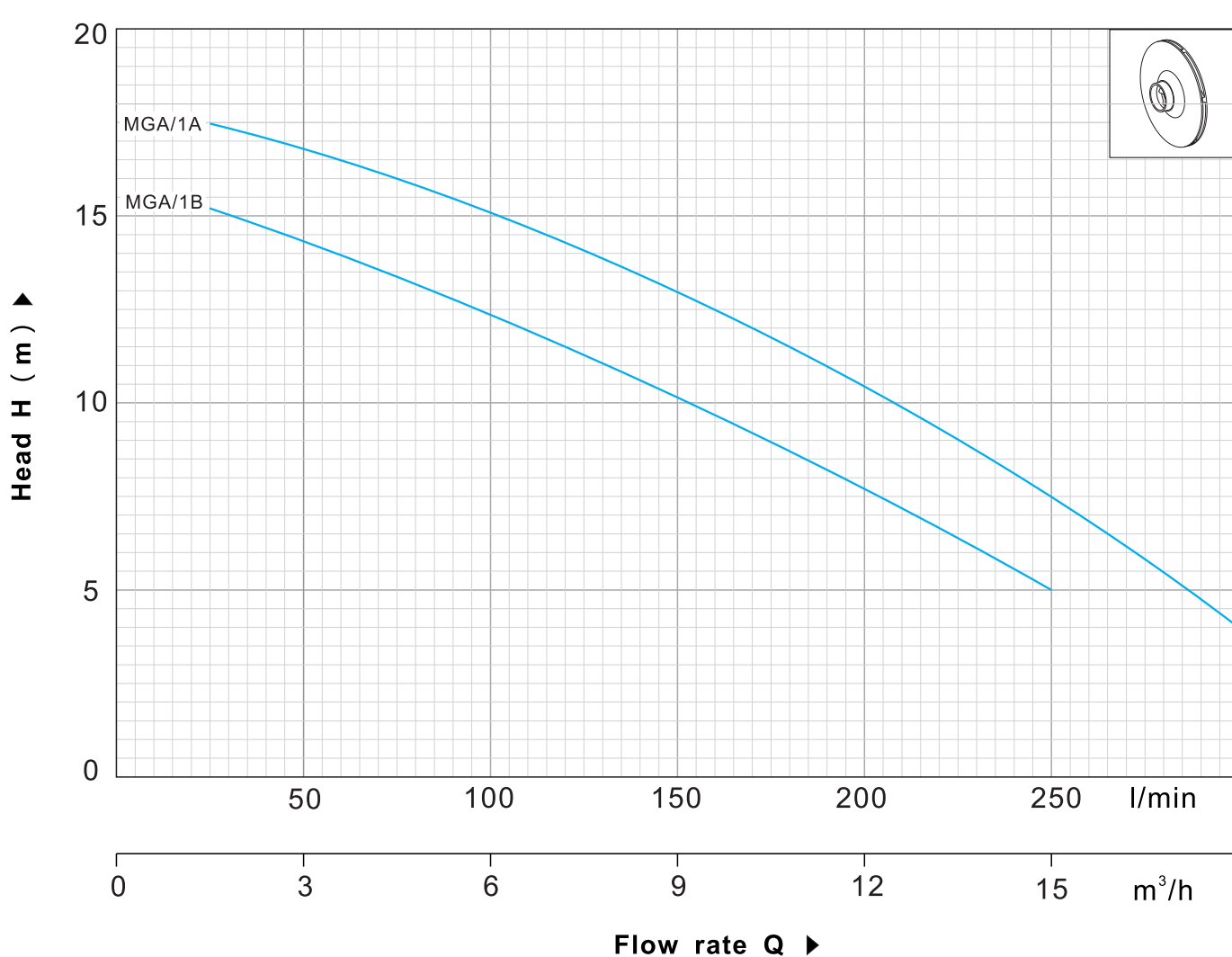
- Pump body: Cast iron with electrophoretic paint.
- Impeller: Brass.
- Mechanical seal: Graphite-Ceramic-NBR.
Graphite-Sic-FPM for hot water.
- Bearing: Z4 class.
- Shaft: Stainless steel.

Guarantee

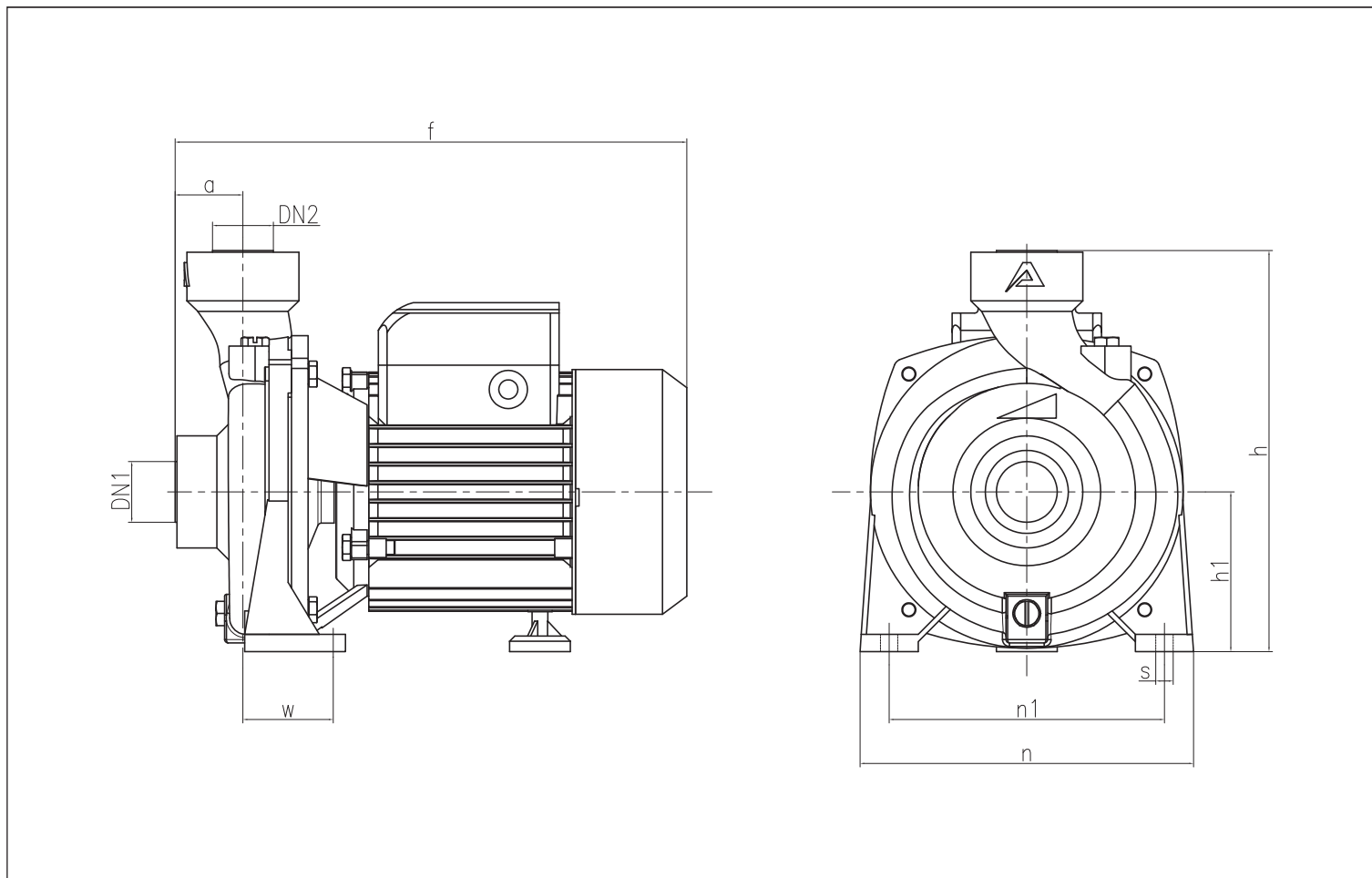
- 2 years subject to terms and conditions.

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n=2850 rpm Hs=0 m



Model		Power		Q	m³/h													
Single-phase	Three-phase	KW	HP		l/min	0	3.0	4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	18.0		
MGA/1A	MG/1A	0.75	1	H m	18	16.7	15.9	15	14	13	11.8	10.5	9	7.5	4			
MGA/1B	MG/1B	0.6	0.8		16	14	13	12	11	9.8	8.7	7.5	6.3	5				



Model		Inlet/Outlet(°)		Dimensions(mm)							
Single-phase	Three-phase	DN1	DN2	a	f	h	h1	n	n1	w	s
MGA/1A	MG/1A	1 1/2"	1 1/2 "	39	295	231	92	192	160	52	10
MGA/1B	MG/1B	1 1/2"	1 1/2 "	39	295	231	92	192	160	52	10

Model	Piece	GW(kg)	NW(kg)	Volume(m³)	L(cm)	W(cm)	H(cm)
MGA/1A	1	14.4	13.9	0.017	33.0	20.0	26.5
MGA/1B	1	14	13.5	0.017	33.0	20.0	26.5



Limits of use

- Liquid temperature: 0°C ~ +60°C.
- Power: single-phase 220V/50Hz, three-phase 380V/50Hz.
- Max. working pressure: 6bar.

Features

- The special design on the impeller allows liquids containing relatively high levels of impurities to be pumped without the risk of the impeller clogging.
- The special design on the pump casing and impeller to assure relatively high flow.
- Wide range voltage 180-240V is allowed for this pump, very suitable for the use in irrigation.
- Equipped with the flange to make this pump easily be installed and disassembled.
- The pumps for boosting hot water are also available on request.

Application

- Be used to delivery the water in sewage treatment system.
- Be used to delivery the water in agriculture, garden, mining etc.
- Be used to pump the water from the canals, rivers, reservoirs for the industrial use.

Components & Materials

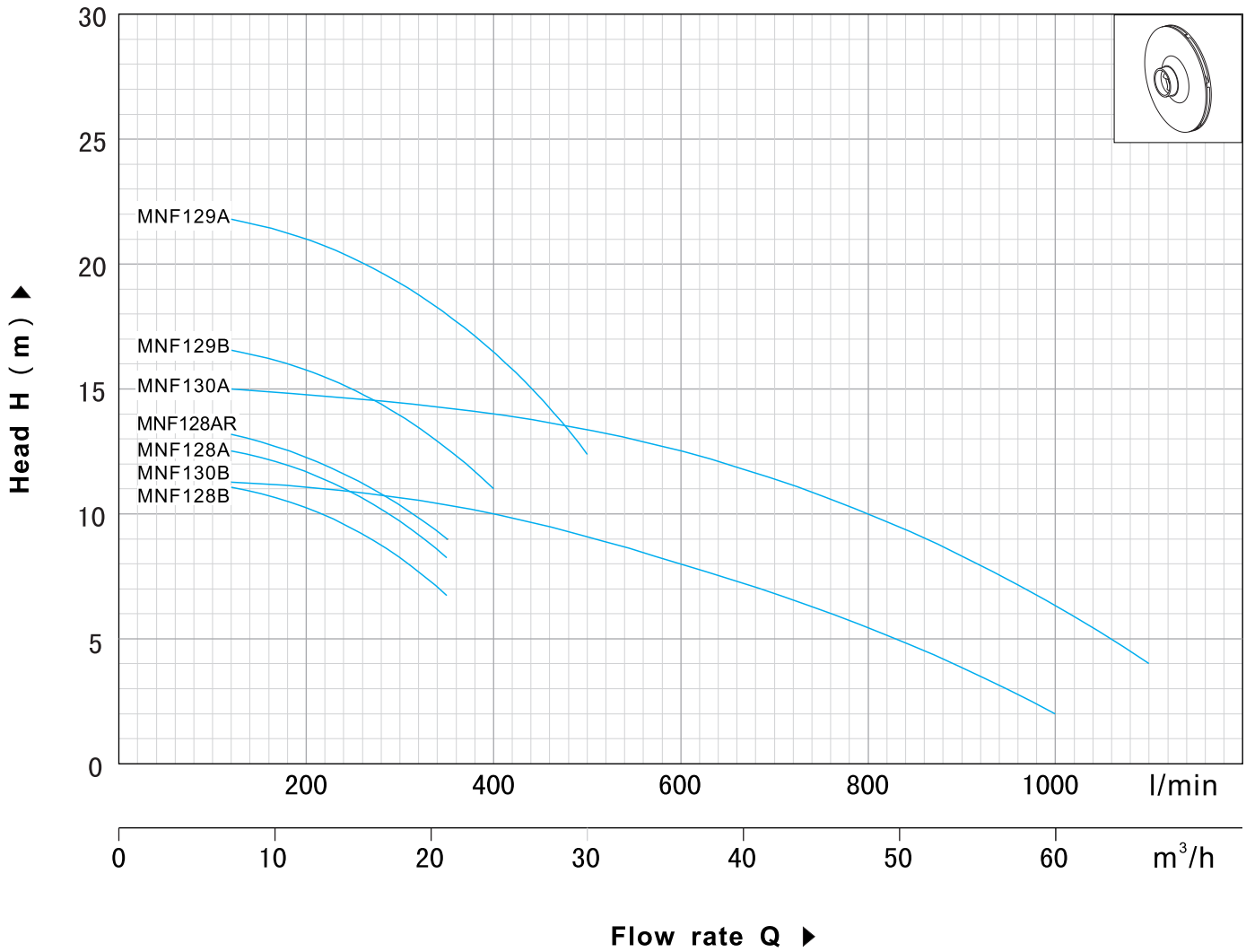
- Pump body: Cast iron with electrophoretic paint.
- Impeller: Brass.
- Mechanical seal: Graphite-Ceramic-NBR.
Graphite-Sic-FPM for hot water.
- Bearing: Z4 class.
- Shaft: Stainless steel.

Guarantee

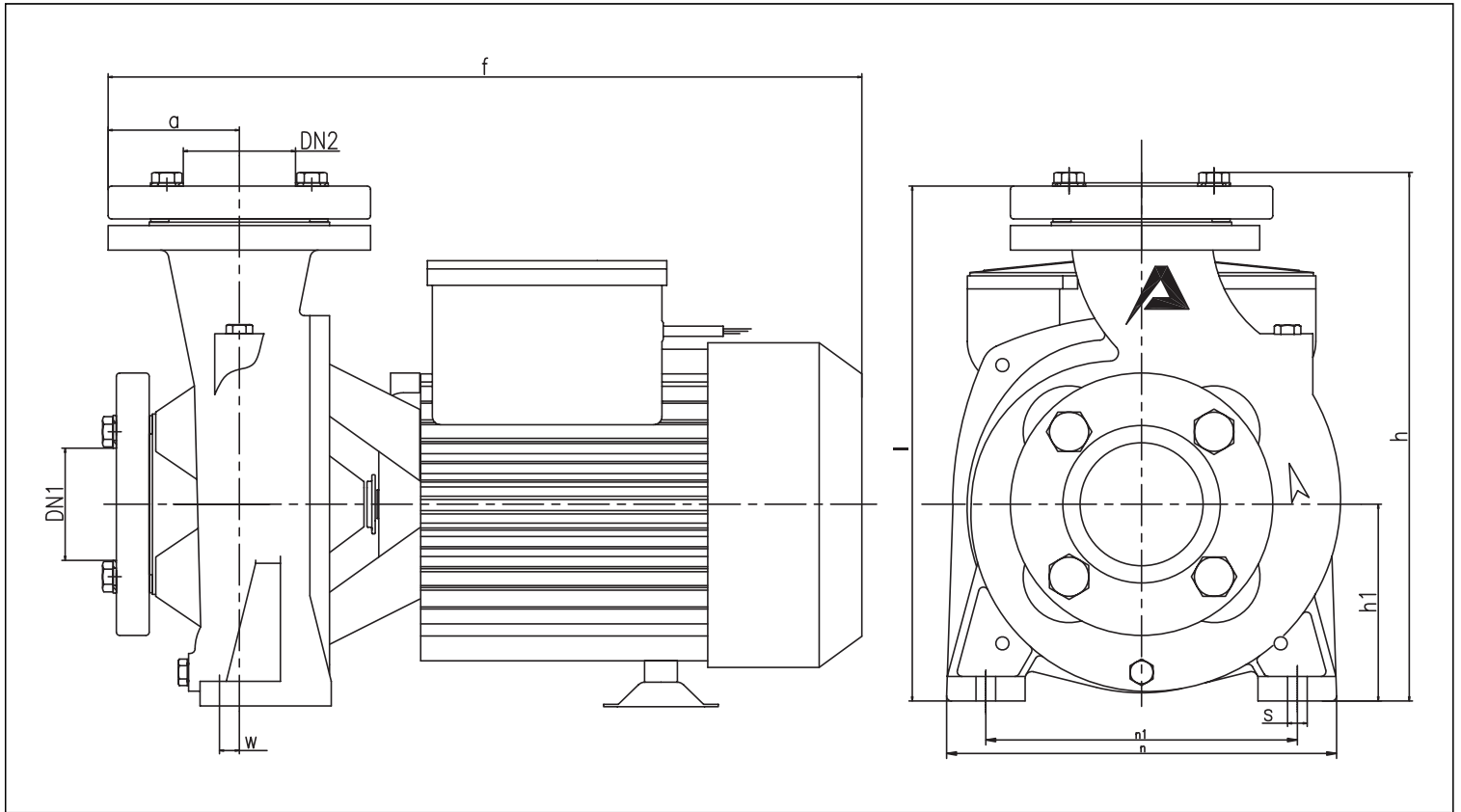
- 2 years subject to terms and conditions

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n=2850 rpm Hs=0 m

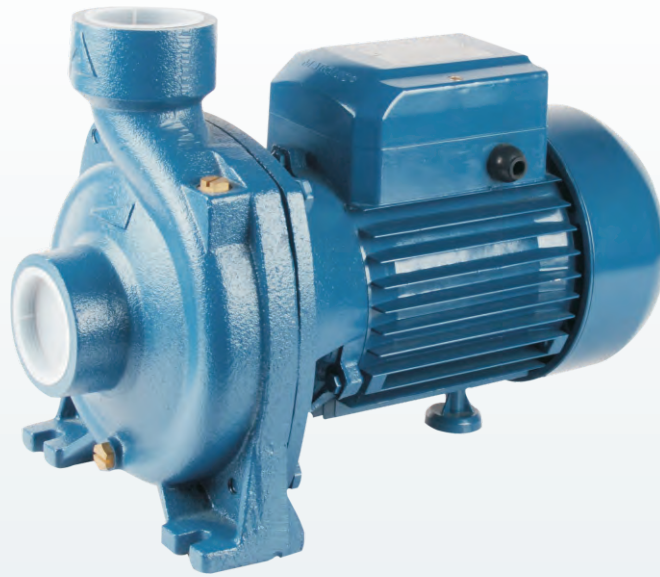


Model		Power		Q	m³/h	Flow rate (m³/h)																
Single-phase	Three-phase	KW	HP			0	6	9	12	15	18	21	24	30	36	42	48	54	60	66		
				Q	l/min	0	100	150	200	250	300	350	400	500	600	700	800	900	1000	1100		
MNF128B	MN128B	0.6	0.85	H m		11.3	11.2	10.9	10.2	9.4	8.1	6.8										
MNF128A	MN128AR	0.75	1			12.9	12.8	12.2	11.8	10.9	9.8	8.2										
MNF128AR	MN128AR	1.1	1.5			13.8	13.3	12.9	12.2	11.4	10.3	9										
MNF129B	MN129B	1.1	1.5			16.9	16.7	16.2	15.8	15	13.9	12.5	11									
MNF129A	MN129A	1.5	2			22.1	21.9	21.5	21	20.2	19.2	18	16.5	12.4								
MNF130B	MN130B	1.5	2			11.3	11.3	11.2	11.1	10.9	10.8	10.3	10	9.1	8	6.8	5.5	3.9	2			
MNF130A	MN130A	2.2	3			15.2	15.1	14.9	14.8	14.6	14.5	14.2	14	13.4	12.5	11.4	10	8.2	6.3	4		



Model		Inlet/Outlet(°)		Dimensions(mm)								
Single-phase	Three-phase	DN1	DN2	a	f	h	h1	l	n	n1	w	s
MNF128B	MN128B	2"	2"	65	330	250	92	242	192	152	16	10
MNF128A	MN128AR	2"	2"	65	330	250	92	242	192	152	16	10
MNF128AR	MN128AR	2"	2"	65	330	250	92	242	192	152	16	10
MNF129B	MN129B	2"	2"	56	374	276	110	263	206	160	14	12
MNF129A	MN129A	2"	2"	56	374	276	110	263	206	160	14	12
MNF130B	MN130B	3"	3"	80	460	322	123	317	238	190	12	12
MNF130A	MN130A	3"	3"	80	411	322	123	317	238	190	12	12

Model	Piece	GW(kg)	NW(kg)	Volume(m³)	L(cm)	W(cm)	H(cm)
MNF128B	1	22.8	19.8	0.027	40.2	22.8	29.8
MNF128A	1	21.3	18.3	0.027	40.2	22.8	29.8
MNF128AR	1	21.3	18.3	0.027	40.2	22.8	29.8
MNF129B	1	26.3	23.3	0.027	40.2	22.8	29.8
MNF129A	1	29.0	26	0.027	40.2	22.8	29.8
MNF130B	1	37.4	34.4	0.044	45.7	28.3	34.0
MNF130A	1	42.2	40.2	0.049	50.5	28.3	34.0



Limits of use

- Liquid temperature:0°C~+60°C.
- Power: single-phase 220V/50Hz, three-phase 380V/50Hz.
- Max.working pressure:6bar.

Features

- The special design on the impeller allows liquids containing relatively high levels of impurities to be pumped without the risk of the impeller clogging.
- The special design on the pump casing and impeller to assure relatively high flow.
- Wide range voltage 180-240V is allowed for this pump , very suitable for the use in irrigation.
- The pumps for boosting hot water are also available on request.

Application

- Be used to delivery the water in sewage treatment system.
- Be used to delivery the water in agriculture,garden, mining etc.
- Be used to pump the water from the canals, rivers,reservoirs for the industrial use.

Components&Materials

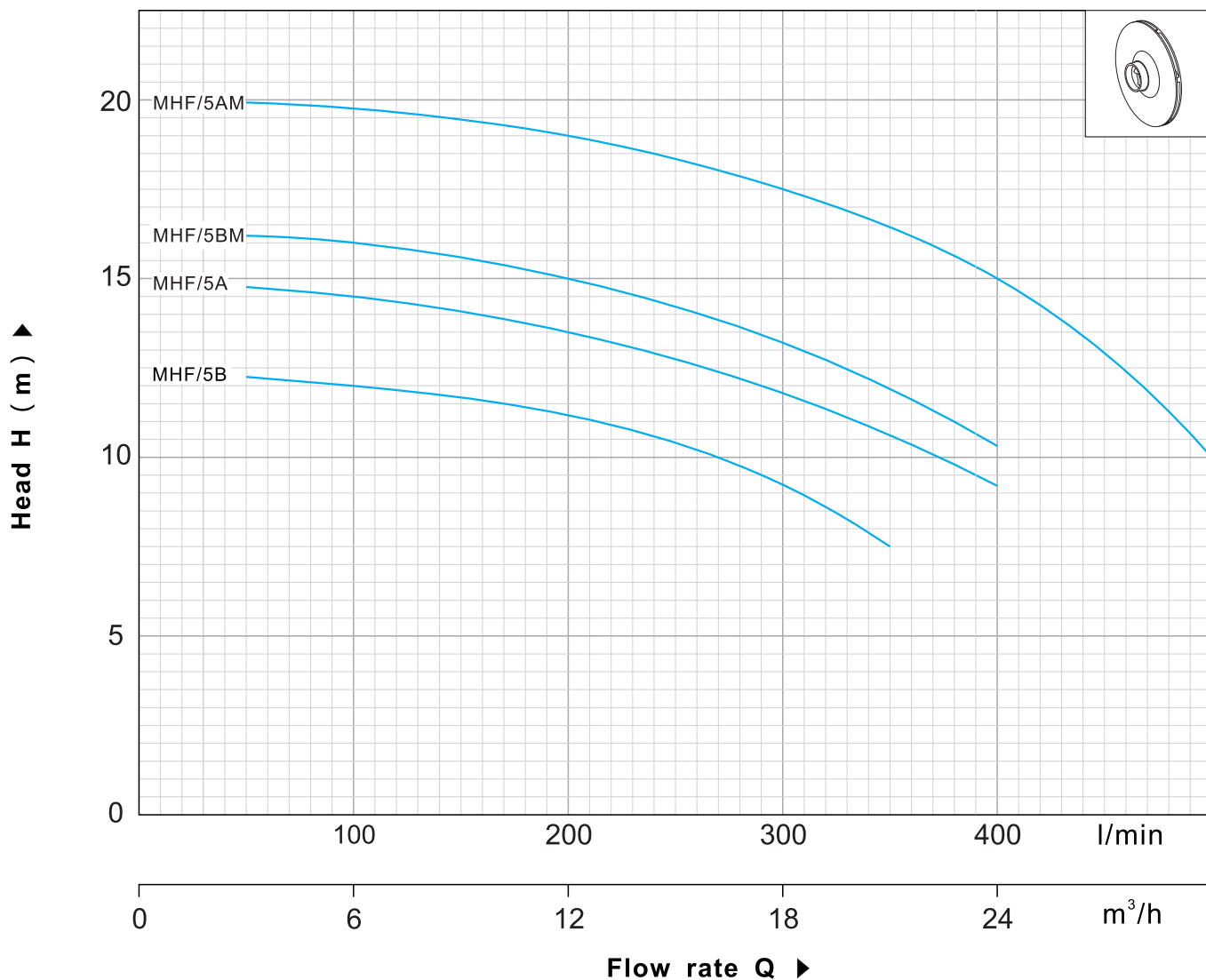
- Pump body:Cast iron with electrophoretic paint.
- Impeller:Brass.
- Mechanical seal: Graphite-Ceramic-NBR.
Graphite-Sic-FPM for hot water.
- Bearing:Z4 class.
- Shaft:Stainless steel.

Guarantee

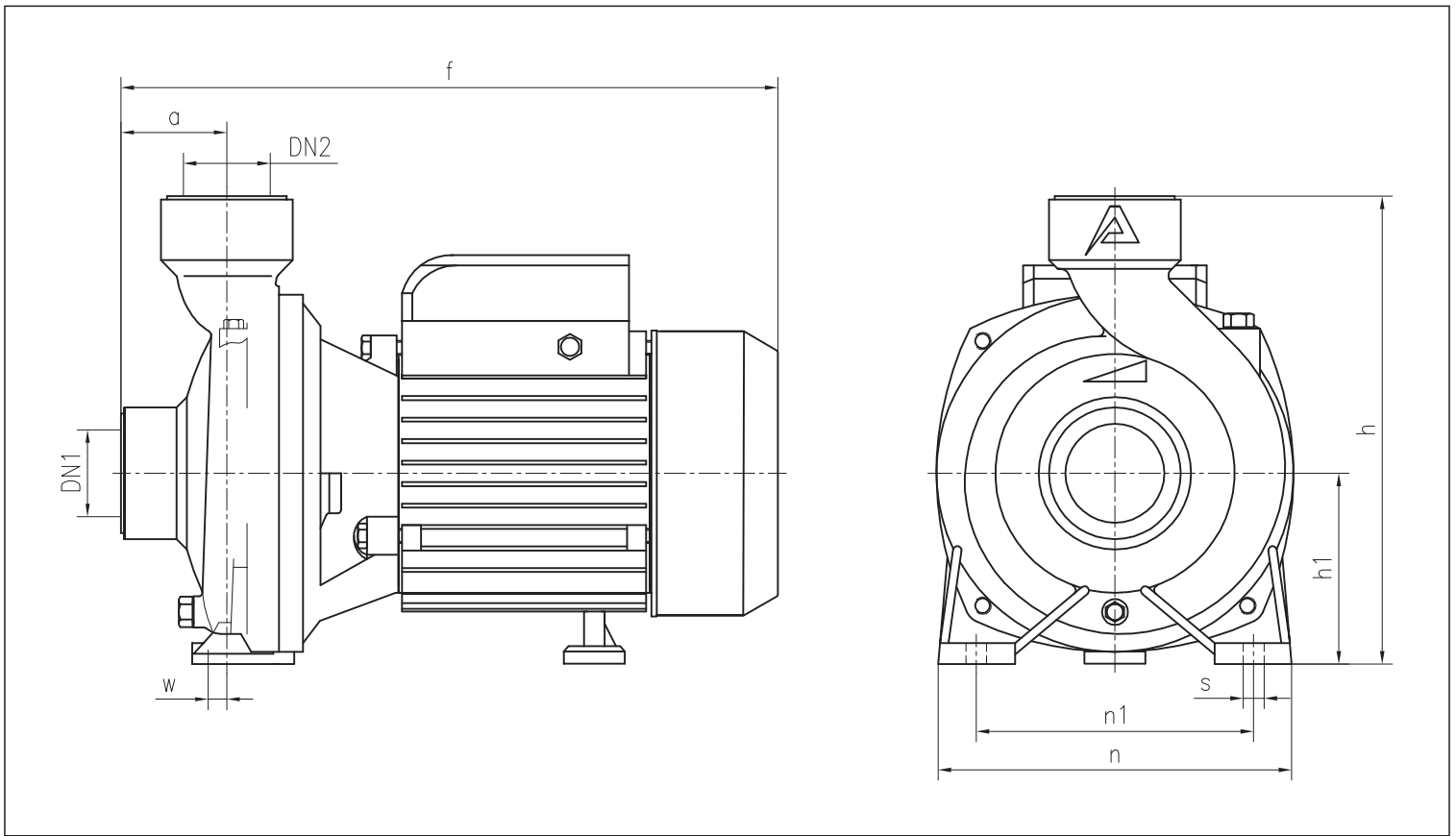
- 2 years subject to terms and conditions.

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n=2850 rpm Hs=0 m



Model		Power		Q	m³/h	0	3	6	9	12	15	18	21	24	30
Single-phase	Three-phase	KW	HP		l/min	0	50	100	150	200	250	300	350	400	500
MHF/5B	MH/5B	0.75	1	H m	12.4	12.2	12	11.7	11.2	10.4	9.2	7.5			
MHF/5A	MH/5A	1.1	1.5		14.8	14.7	14.5	14	13.5	12.7	11.8	10.6	9.2		
MHF/5BM	MH/5BM	1.1	1.5		16.2	16.2	16	15.5	15	14.2	13.2	12	10.3		
MHF/5AM	MH/5AM	1.5	2		20	19.9	19.8	19.5	19	18.4	17.5	16.5	15	10	



Model		Inlet/Outlet(°)		Dimensions(mm)							
Single-phase	Three-phase	DN1	DN2	a	f	h	h1	n	n1	w	s
MHF/5B	MH/5B	2"	2"	65	331	236	92	192	152	16	10
MHF/5A	MH/5A	2"	2"	65	331	236	92	192	152	16	10
MHF/5BM	MH/5BM	2"	2"	61	379	270	110	206	160	10	12
MHF/5AM	MH/5AM	2"	2"	61	379	270	110	206	160	10	12

Model	Piece	GW(kg)	NW(kg)	Volume(m ³)	L(cm)	W(cm)	H(cm)
MHF/5B	1	16.0	15.0	0.023	36.2	22.0	28.5
MHF/5A	1	16.3	15.5	0.023	36.2	22.0	28.5
MHF/5BM	1	21.6	21.0	0.027	40.2	22.8	29.8
MHF/5AM	1	23.1	22.5	0.027	40.2	22.8	29.8



Limits of use

- Liquid temperature:0°C~ +60°C.
- Power: single-phase 220V/50Hz, three-phase 380V/50Hz.
- Max.working pressure:6bar.

Features

- The special design on the impeller allows liquids containing relatively high levels of impurities to be pumped without the risk of the impeller clogging.
- The special design on the pump casing and impeller to assure relatively high flow.
- Wide range voltage 180-240V is allowed for this pump , very suitable for the use in irrigation.
- The pumps for boosting hot water are also available on request.

Application

- Be used to delivery the water in sewage treatment system.
- Be used to delivery the water in agriculture,garden, mining etc.
- Be used to pump the water from the canals,rivers, reservoirs for the industrial use.

Components&Materials

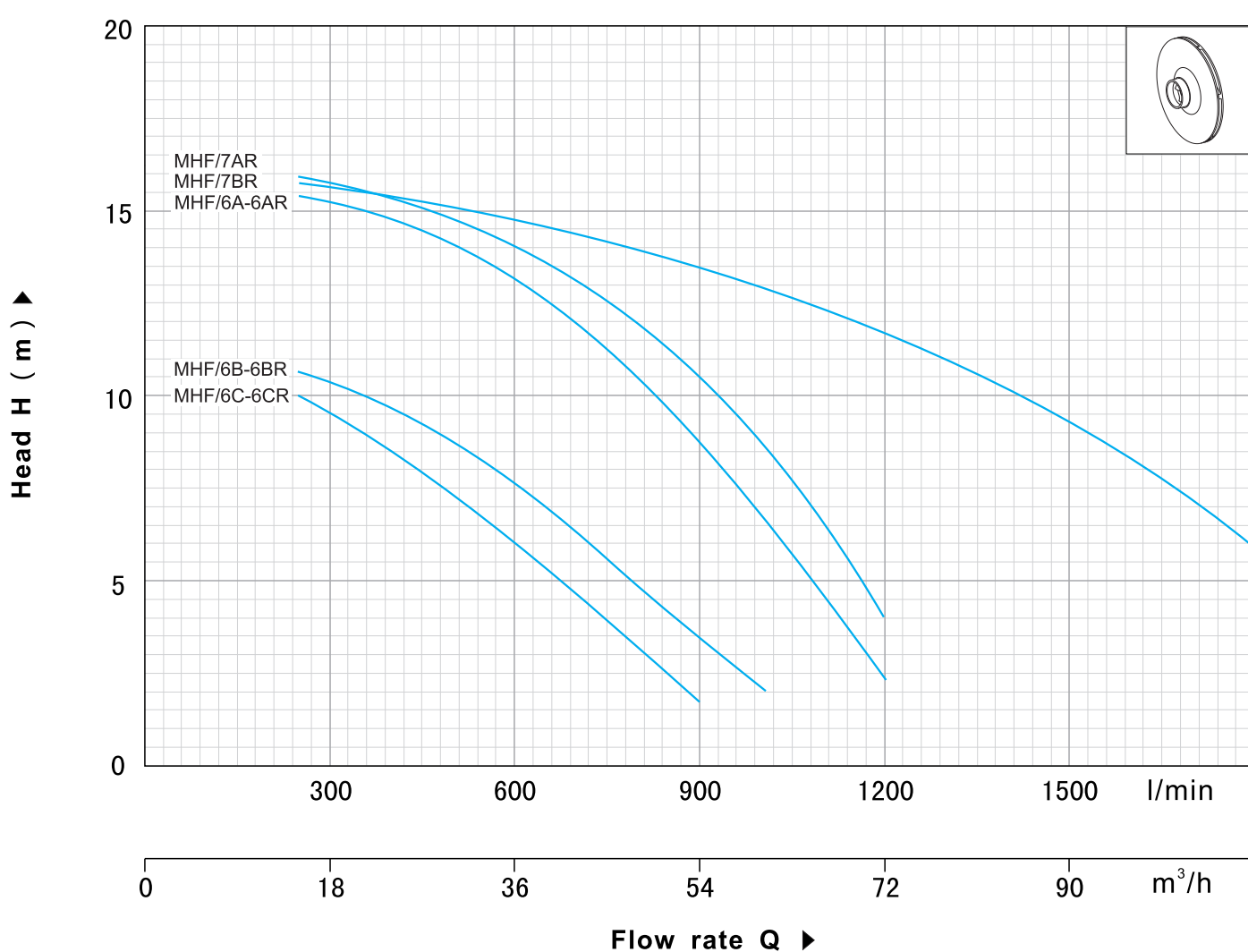
- Pump body:Cast iron with electrophoretic paint.
- Impeller:Brass/ Cast iron with electrophoretic paint.
- Mechanical seal: Graphite-Ceramic-NBR.
Graphite-Sic-FPM for hot water.
- Bearing:Z4 class.
- Shaft:Stainless steel.

Guarantee

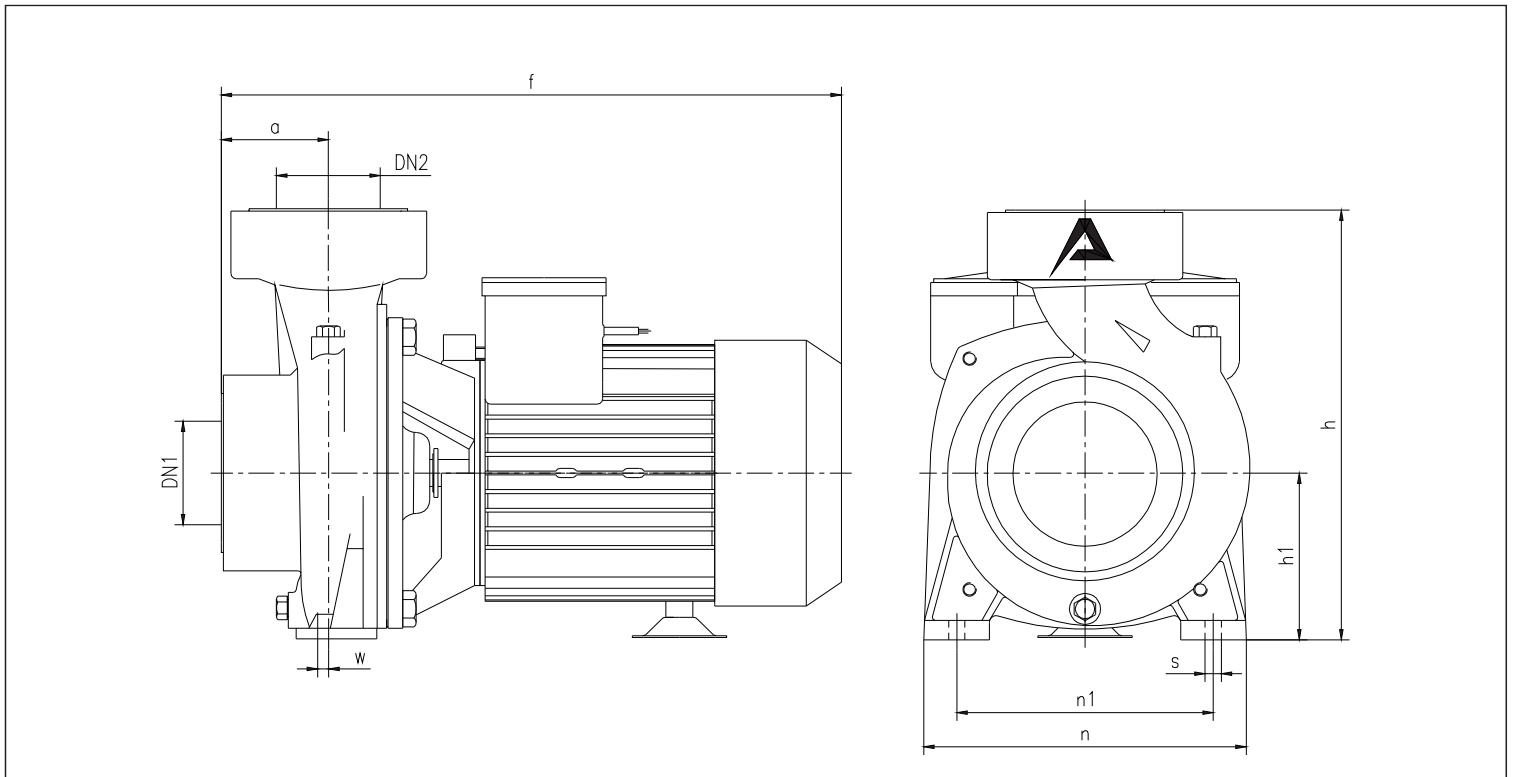
- 2 years subject to terms and conditions.

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n=2850 rpm Hs=0 m



Model		Power		Q	m³/h													
Single-phase	Three-phase	KW	HP		0	15	18	30	36	48	54	60	72	96	108			
					0	250	300	500	600	800	900	1000	1200	1600	1800			
MHF/6C	MH/6C	1.1	1.5	H m	10.6	10	9.6	7.5	6.2	3.2	1.7							
MHF/6CR	MH/6CR	1.1	1.5		10.6	10	9.6	7.5	6.2	3.2	1.7							
MHF/6B	MH/6B	1.5	2		11.6	11.2	11	9.5	8.5	5.4	3.5	2						
MHF/6BR	MH/6BR	1.5	2		11.6	11.2	11	9.5	8.5	5.4	3.5	2						
MHF/6A	MH/6A	2.2	3		16.2	15.8	15.6	14.3	13.3	10.6	9	7	2.3					
MHF/6AR	MH/6AR	2.2	3		16.2	15.8	15.6	14.3	13.3	10.6	9	7	2.3					
MHF/7BR	MH/7BR	3.0	4		17.4	16.8	16.6	15.5	14.7	12.3	10.6	8.7	4.2					
MHF/7AR	MH/7AR	3.75	5		16.6	16.4	16.2	15.6	15.2	14.3	13.7	13.1	11.8	8.4	5.8			



Model		Inlet/Outlet(°)		Dimensions(mm)							
Single-phase	Three-phase	DN1	DN2	a	f	h	h1	n	n1	w	s
MHF/6C	MH/6C	3"	3"	73	404	312	123	238	190	14	12
MHF/6CR	MH/6CR	4"	4"	81	412	318	123	238	190	18	12
MHF/6B	MH/6B	3"	3"	73	404	312	123	238	190	14	12
MHF/6BR	MH/6BR	4"	4"	81	412	318	123	238	190	18	12
MHF/6A	MH/6A	3"	3"	73	450	312	123	238	190	14	12
MHF/6AR	MH/6AR	4"	4"	81	460	318	123	238	190	18	12
MHF/7BR	MH/7BR	4"	4"	81	460	318	123	238	190	18	12
MHF/7AR	MH/7AR	4"	4"	100	558	394	162	292	227	40	16

Model	Piece	GW(kg)	NW(kg)	Volume(m³)	L(cm)	W(cm)	H(cm)
MHF/6C	1	29.71	26.5	0.044	45.7	28.3	34.0
MHF/6CR	1	32.71	29.5	0.044	45.7	28.3	34.0
MHF/6B	1	31.4	28.8	0.044	45.7	28.3	34.0
MHF/6BR	1	34.4	31.8	0.044	45.7	28.3	34.0
MHF/6A	1	37.6	35	0.048	50.2	28.3	34.0
MHF/6AR	1	41.5	38.5	0.048	50.2	28.3	34.0
MHF/7BR	1	44.5	41.5	0.048	50.2	28.3	34.0
MHF/7AR	1	85	83	0.083	60.0	33.0	42.0



Limits of use

- Liquid temperature: $-15^{\circ}\text{C} \sim +70^{\circ}\text{C}$.
 $-15^{\circ}\text{C} \sim +120^{\circ}\text{C}$ for hot water.
- Ambient temperature: up to 40°C .
- Max. altitude: 1000m.
- Power: single phase 220V-240V/50Hz
three phase 380V-450V/50Hz.

Features

- Motor shaft directly be connected with pump shaft.
- Impeller and diffuser made of stainless steel by the stamping-welding shaping techniques.
- The inlet and outlet of the pump in one pipeline plus the vertical installation, the pump takes up little space.
- Special design of the impeller and motor to assure the pump operate very efficient with lowest noise.

Application

- Be used to boost the water in the water supply, pressurization system, fire fighting system in high building.
- Be used to boost the hot water in HVAC, boiler, and heating system.
- Be used to boost the water for ultrafiltration, reverse osmosis and distillation in water treatment.

Name

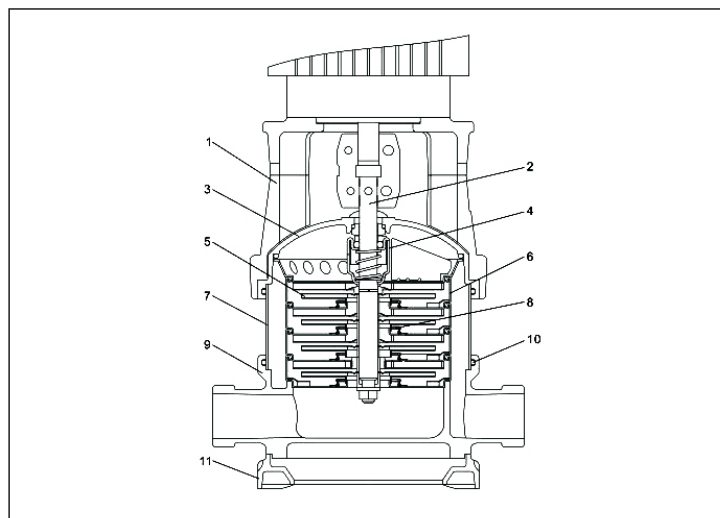
MSV4-80



Guarantee

- 2 years subject to terms and conditions.

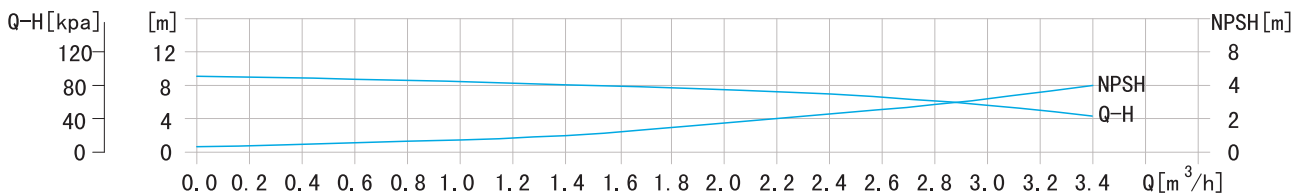
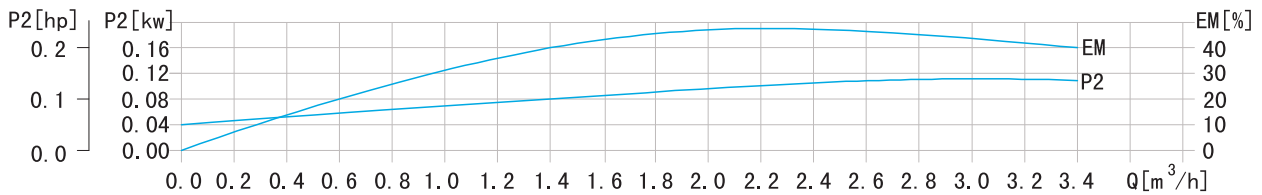
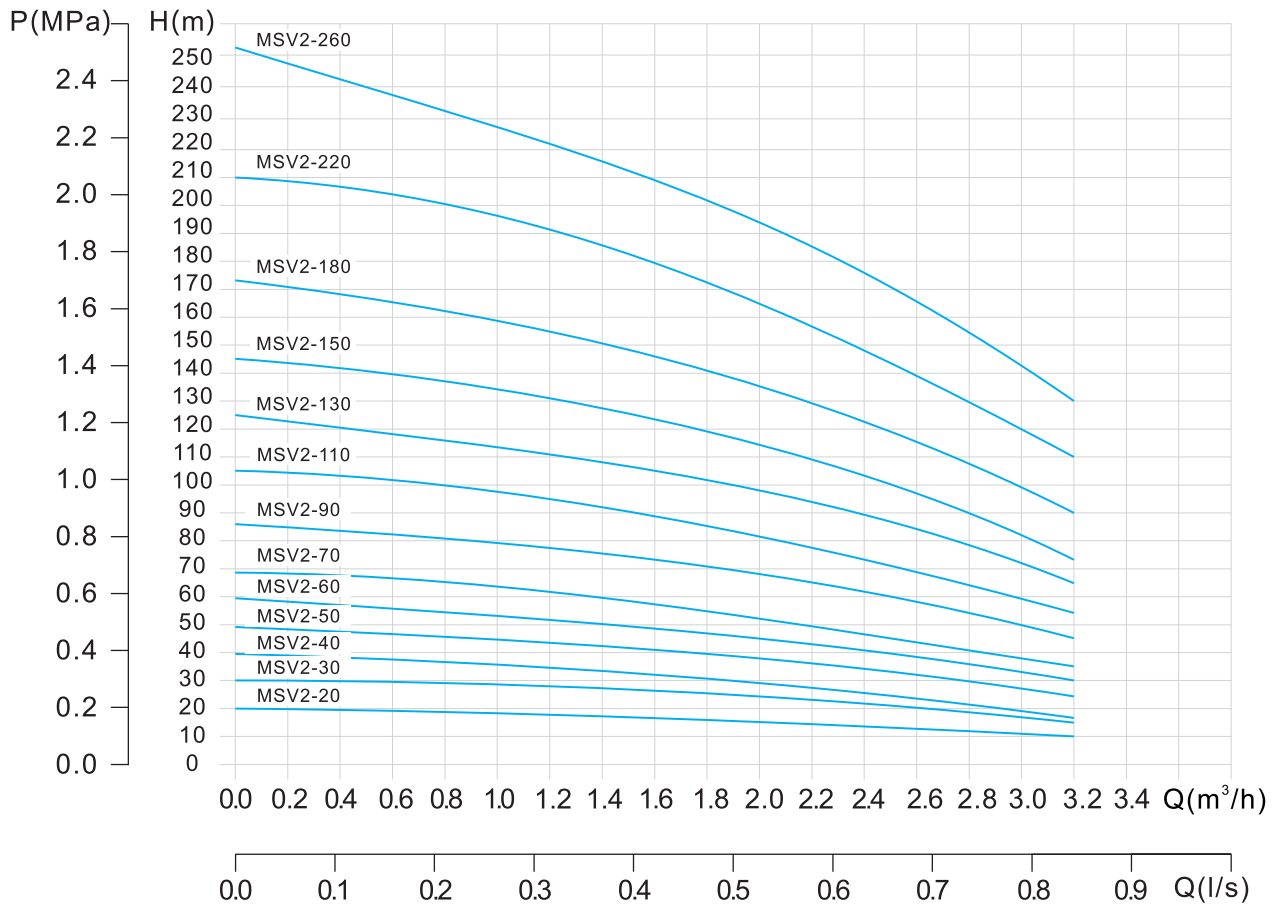
Components & Materials



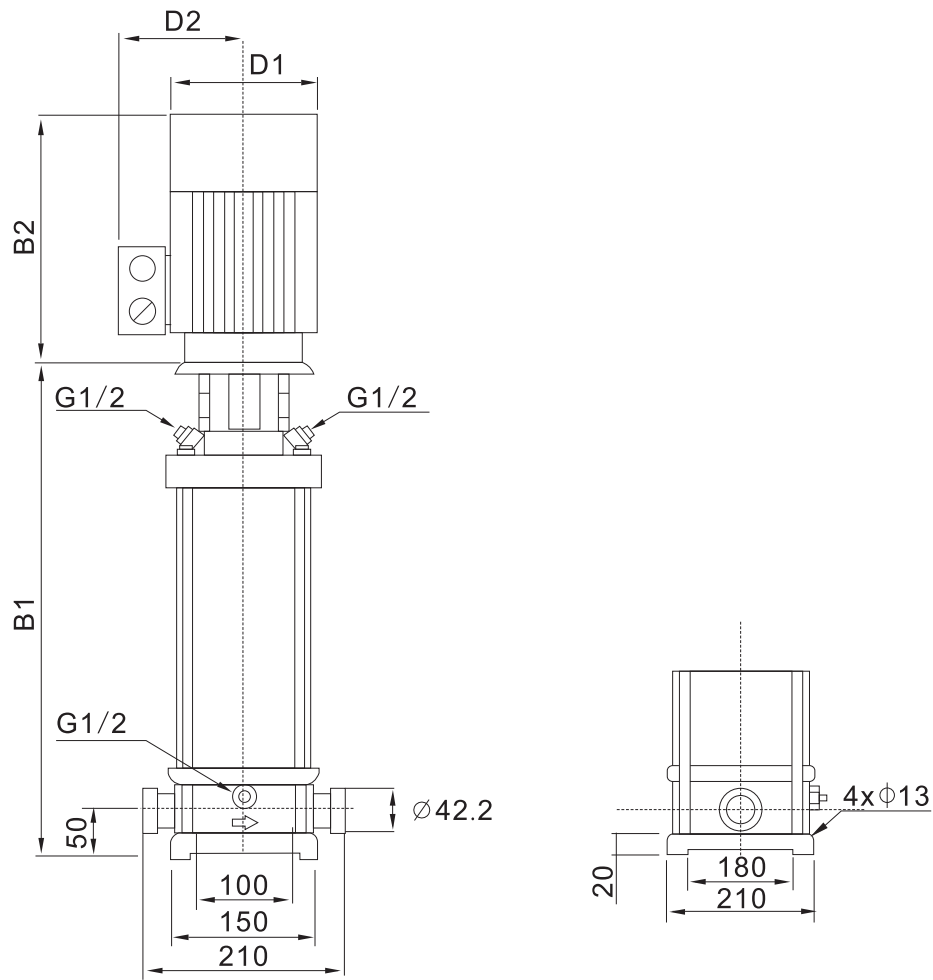
Number	Name	Material	AISI/ASTM
1	Bracket	Cast iron	ASTM25B
2	Shaft	Stainless steel	AISI316
3	Coupling guard	Stainless steel	AISI304
4	Mechanical seal	-	-
5	Impeller	Stainless steel	AISI304
6	Diffuser	Stainless steel	AISI304
7	Cylinder	Stainless steel	AISI304
8	Inducer	Stainless steel	AISI304
9	Inlet and outlet chamber	Stainless steel	AISI304
10	O-ring	EPDM or FKM	-
11	Base plate	Cast iron	ASTM25B
12	Rubber parts	EPDM or FKM	-

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n=2850 rpm Hs=0 m



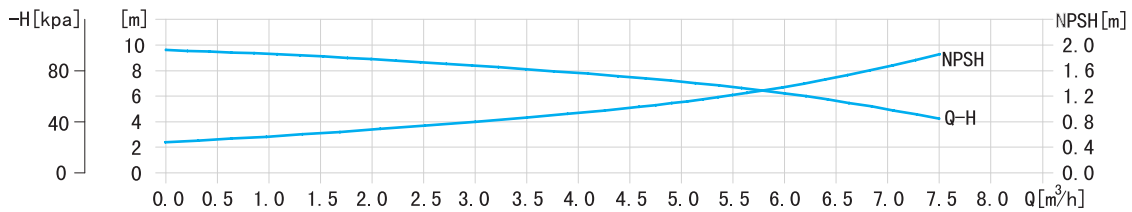
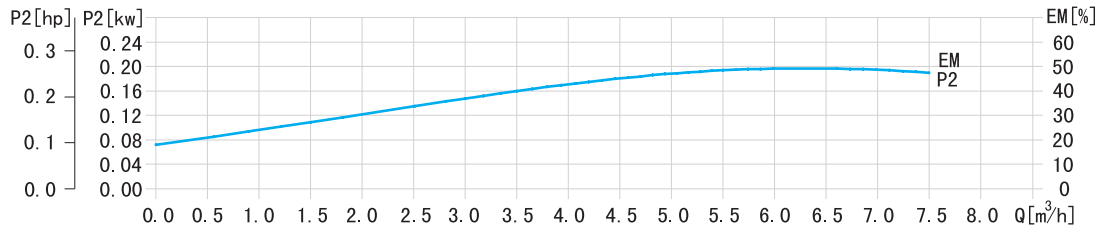
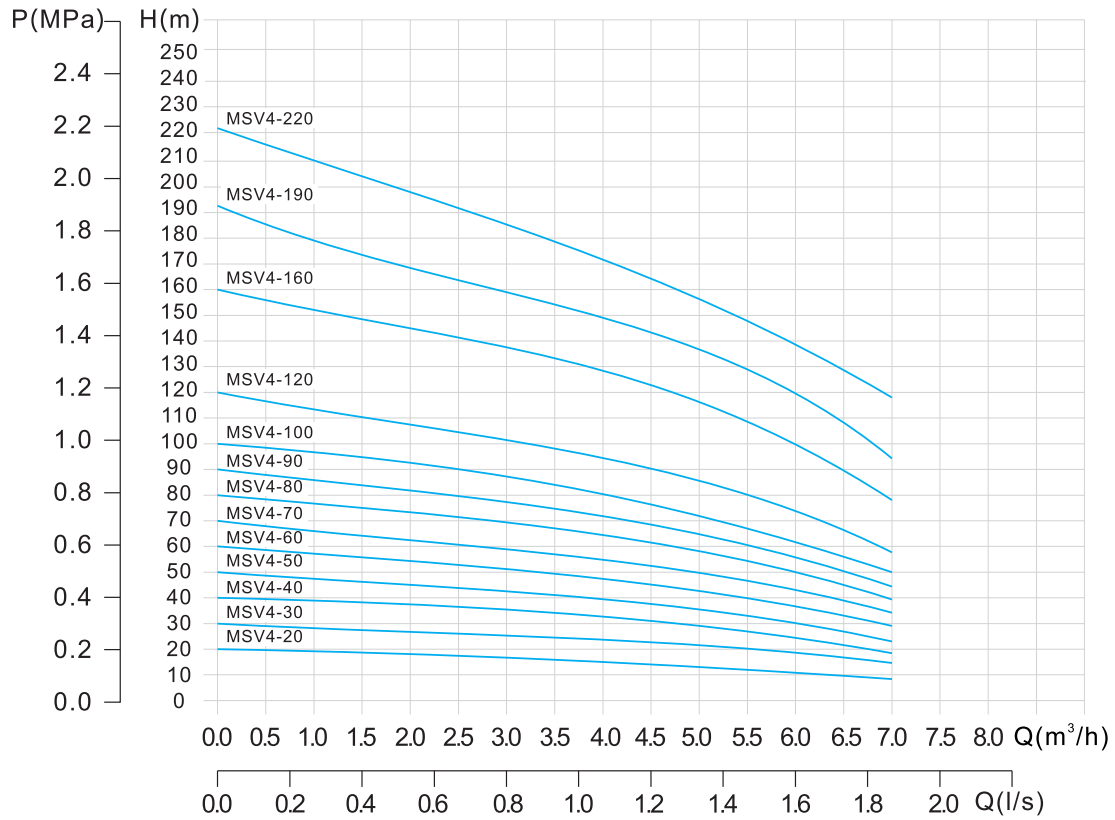
Model	Power		Q	H (m)								
	KW	HP		m³/h	0	1.0	1.2	1.6	2.0	2.4	2.8	3.2
			l/min	0	16.6	20	26.6	33.3	40	46.6	53.3	
MSV2-20	0.37	0.5		20	18	17	16	15	13	12	10	
MSV2-30	0.37	0.5		30	27	26	24	22	20	18	15	
MSV2-40	0.55	0.75		39	36	35	33	30	26	24	17	
MSV2-50	0.55	0.75		49	45	43	40	37	33	30	24	
MSV2-60	0.75	1		59	53	52	50	45	40	36	30	
MSV2-70	0.75	1		68	63	61	57	52	47	41	35	
MSV2-90	1.1	1.5		86	80	78	73	67	61	54	45	
MSV2-110	1.1	1.5		105	98	95	89	82	73	64	54	
MSV2-130	1.5	2		125	116	114	106	98	89	78	65	
MSV2-150	1.5	2		145	134	130	123	112	100	90	73	
MSV2-180	2.2	3		173	161	157	148	136	121	108	91	
MSV2-220	2.2	3		210	197	192	180	165	148	130	110	
MSV2-260	3	4		253	232	228	214	198	179	158	130	



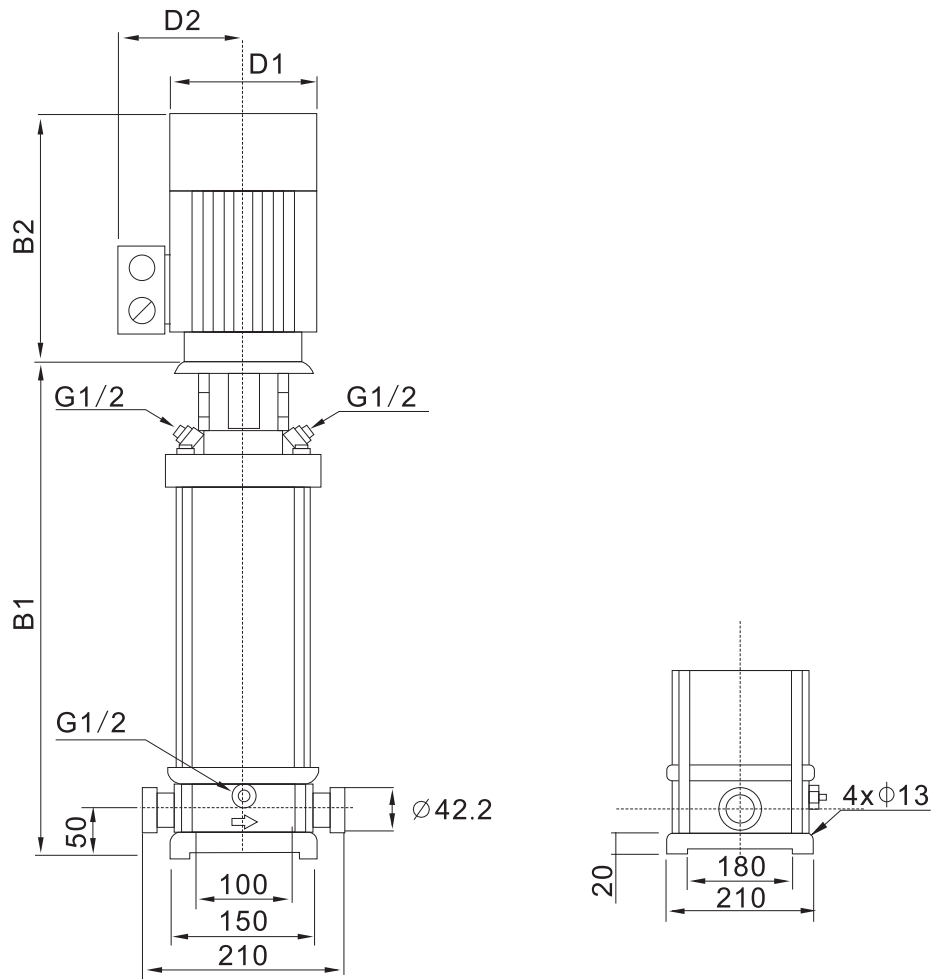
Model						Inlet/Outlet(")	Weight
	B1	B2	B1+B2	D1	D2		
MSV2-20	245	220	465	140	110	1"	20
MSV2-30	263	220	483	140	110	1"	21
MSV2-40	281	220	501	140	110	1"	23
MSV2-50	299	220	519	140	125	1"	24
MSV2-60	322	250	572	160	125	1"	25
MSV2-70	340	250	590	160	125	1"	27
MSV2-90	376	250	626	160	125	1"	29
MSV2-110	412	250	662	160	125	1"	31
MSV2-130	465	290	755	180	125	1"	33
MSV2-150	501	290	791	180	125	1"	35
MSV2-180	555	290	845	180	125	1"	51
MSV2-220	627	290	917	180	125	1"	55
MSV2-260	707	330	1037	190	140	1"	60

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n=2850 rpm Hs=0 m



Model	Power		Q	m ³ /h						
	KW	HP		0	2.0	3.0	4.0	5.0	6.0	7
				0	33.3	50	66.6	83.3	100	116
				0	33.3	50	66.6	83.3	100	116
MSV4-20	0.37	0.5	H m	20	18	17	15	13	10	8
MSV4-30	0.55	0.75		30	27	26	24	20	18	14
MSV4-40	0.75	1		40	36	34	32	27	24	18
MSV4-50	1.1	1.5		50	45	43	40	34	31	23
MSV4-60	1.1	1.5		60	54	52	48	41	37	28
MSV4-70	1.5	2		70	63	61	56	48	43	34
MSV4-80	1.5	2		80	72	70	64	55	50	38
MSV4-90	2.2	3		90	81	78	72	63	56	44
MSV4-100	2.2	3		100	90	87	81	71	62	50
MSV4-120	2.2	3		120	108	104	95	85	75	57
MSV4-160	3	4		160	144	140	129	115	101	78
MSV4-190	4	5		193	171	168	153	137	122	95
MSV4-220	4	5	223	200	192	178	160	138	108	



Model	Dimensions(mm)					Inlet/Outlet(“)	Weight
	B1	B2	B1+B2	D1	D2		
MSV4-20	263	220	483	140	110	1”	20
MSV4-30	290	220	510	140	110	1”	21
MSV4-40	322	250	572	160	125	1”	23
MSV4-50	349	250	599	160	125	1”	24
MSV4-60	376	250	626	160	125	1”	25
MSV4-70	420	290	710	180	125	1”	29
MSV4-80	447	290	737	180	125	1”	30
MSV4-90	474	290	764	180	125	1”	32
MSV4-100	501	290	791	180	125	1”	33
MSV4-120	555	290	845	180	125	1”	35
MSV4-160	671	330	1001	190	140	1”	50
MSV4-190	752	330	1082	220	150	1”	62
MSV4-220	833	330	1163	220	150	1”	65



Limits of use

- Liquid temperature: $-10^{\circ}\text{C} \sim +60^{\circ}\text{C}$.
- Power: single-phase 220V/50Hz.
- Max. working pressure: 6.5bar.

Features

- Build-in check valve, this pump can be used without charging water again after first water injection.
- This pump can be easily installed through its flanges with screw thread connection with the pipe.
- End-user can easily clean the pump casing through disassembling the impeller cover to prevent the impeller from jam.
- Built-in thermal protector to prevent motor from overheating.
- Build with the pressure switch and tank to control the pump automatically.
- Build with the base support to assure the pump be easily installed and stable operation.

Guarantee

- 2 years subject to terms and conditions.

Application

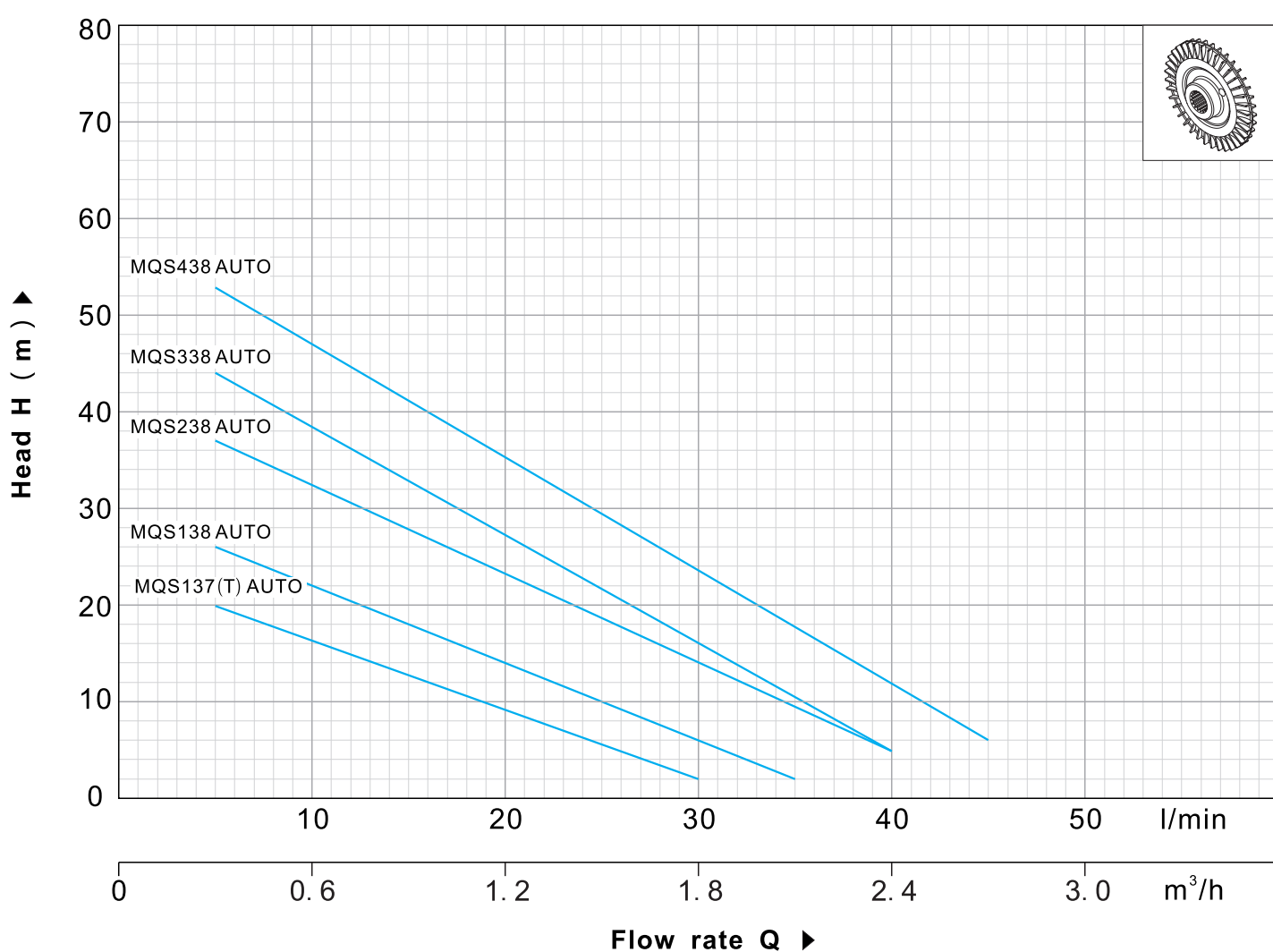
- Be used to delivery the clean water without the abrasive particles.
- Be used to clean or cool the machine tools with high pressure.
- Be used to pump the water for the industrial or house use from the well or tank.
- Be used to boost the water in pressurization system.

Components&Materials

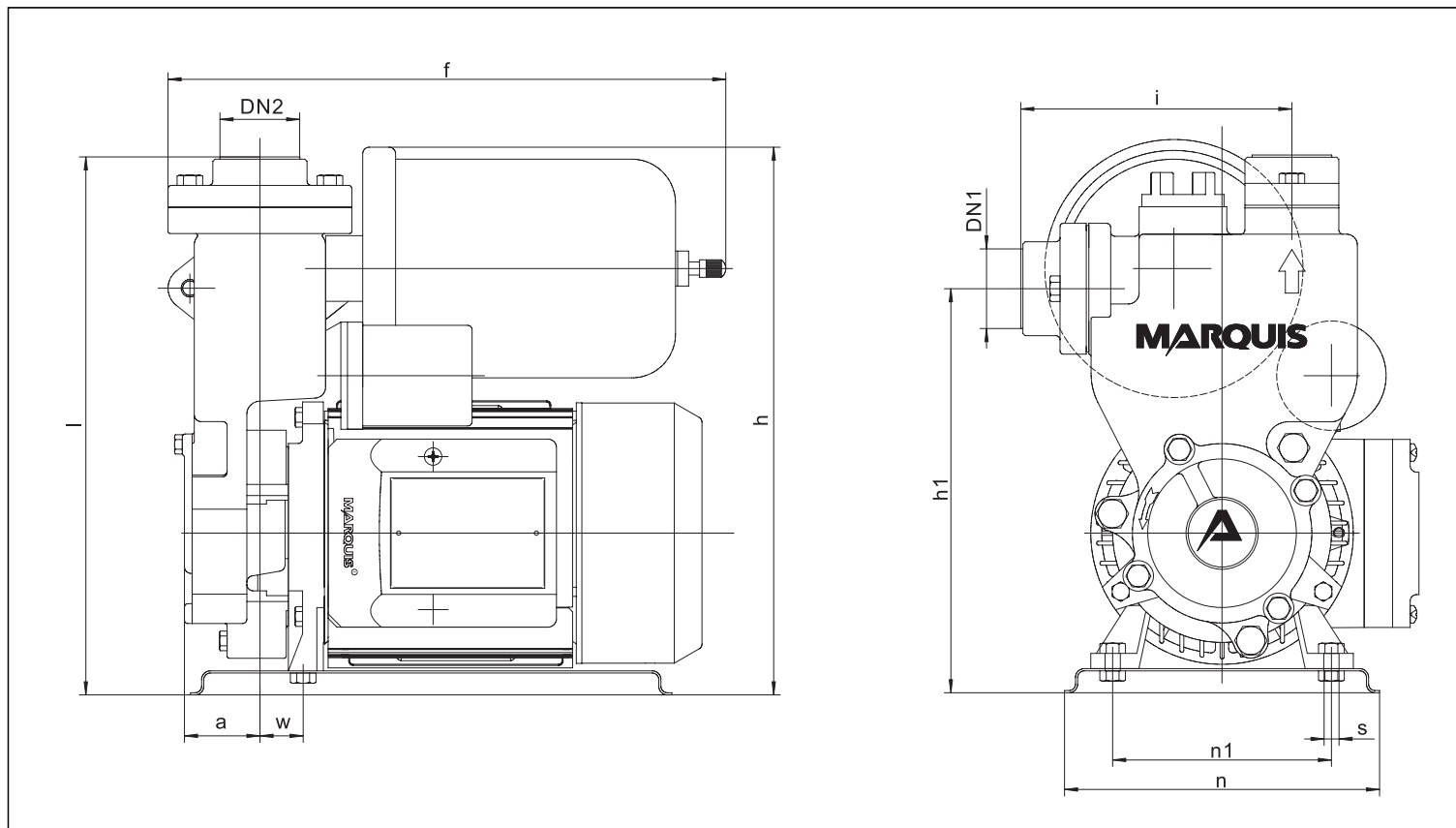
- Pump body: Cast iron (electrophoretic paint with brass insert).
- Impeller cover: Brass/Cast iron.
- Mechanical seal: Graphite-Ceramic-NBR.
- Bearing: Z4 class.
- Shaft: Stainless steel.

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n=2850 rpm Hs=0 m



Model	Power		pressure range (bar)	Suction lift Hs m	Q	Flow rate														
	KW	HP				on/off	m³/h	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7			
Single-phase						l/min	0	5	10	15	20	25	30	35	40	45				
MQS137 AUTO	0.25	0.33	1.1-1.8	8	H m	24	20	15	10	6	3	2								
MQS137T AUTO	0.25	0.33	1.1-1.8	8		24	20	15	10	6	3	2								
MQS138 AUTO	0.37	0.50	1.4-2.2	8		33	26	22	17	12	7	4	2							
MQS238 AUTO	0.45	0.60	2.0-3.0	8		40	37	33	28	22	18	13	9	5						
MQS338 AUTO	0.55	0.75	2.8-4.0	8		50	44	39	33	29	22	16	11	5						
MQS438 AUTO	0.75	1	3.6-5.0	8		60	53	46	39	33	26	20	15	10	6					



Model		Inlet/Outlet(")		Dimensions(mm)									
Single-phase	Three-phase	DN1	DN2	a	f	h	h1	i	l	n	n1	w	s
MQS137 AUTO	-	1"	1"	35	255	251	183	124	245	144	108	38	7
MQS137T AUTO	-	1"	1"	35	255	251	183	124	245	144	108	38	7
MQS138 AUTO	-	1"	1"	35	255	251	183	124	245	144	108	38	7
MQS238 AUTO	-	1"	1"	42.5	273	272	200	145	263	144	110	60.5	7
MQS338 AUTO	-	1"	1"	42.5	273	272	189	145	263	144	110	60.5	7
MQS438AUTO	-	1"	1"	45	275	272	189	145	263	144	110	60.5	7

Model	Piece	GW(kg)	NW(kg)	Volume(m ³)	L(cm)	W(cm)	H(cm)
MQS137 AUTO	1	9	8.6	0.016	28.0	20.5	28.0
MQS137T AUTO	1	9	8.6	0.016	28.0	20.5	28.0
MQS138 AUTO	1	9.3	8.9	0.016	28.0	20.5	28.0
MQS238 AUTO	1	12.3	11.8	0.020	30.0	23.0	29.0
MQS338 AUTO	1	13.3	12.8	0.020	30.0	23.0	29.0
MQS438AUTO	1	14.8	14.3	0.022	30.0	23.0	33.0



Limits of use

- Liquid temperature: $-10^{\circ}\text{C} \sim +60^{\circ}\text{C}$.
- Power: single-phase 220V/50Hz.
- Max. working pressure: 6.5bar.

Application

- Be used to delivery the clean water without the abrasive particles.
- Be used to clean or cool the machine tools with high pressure.
- Be used to pump the water for the industrial or house use from the well or tank.
- Be used to boost the water in pressurization system.

Components&Materials

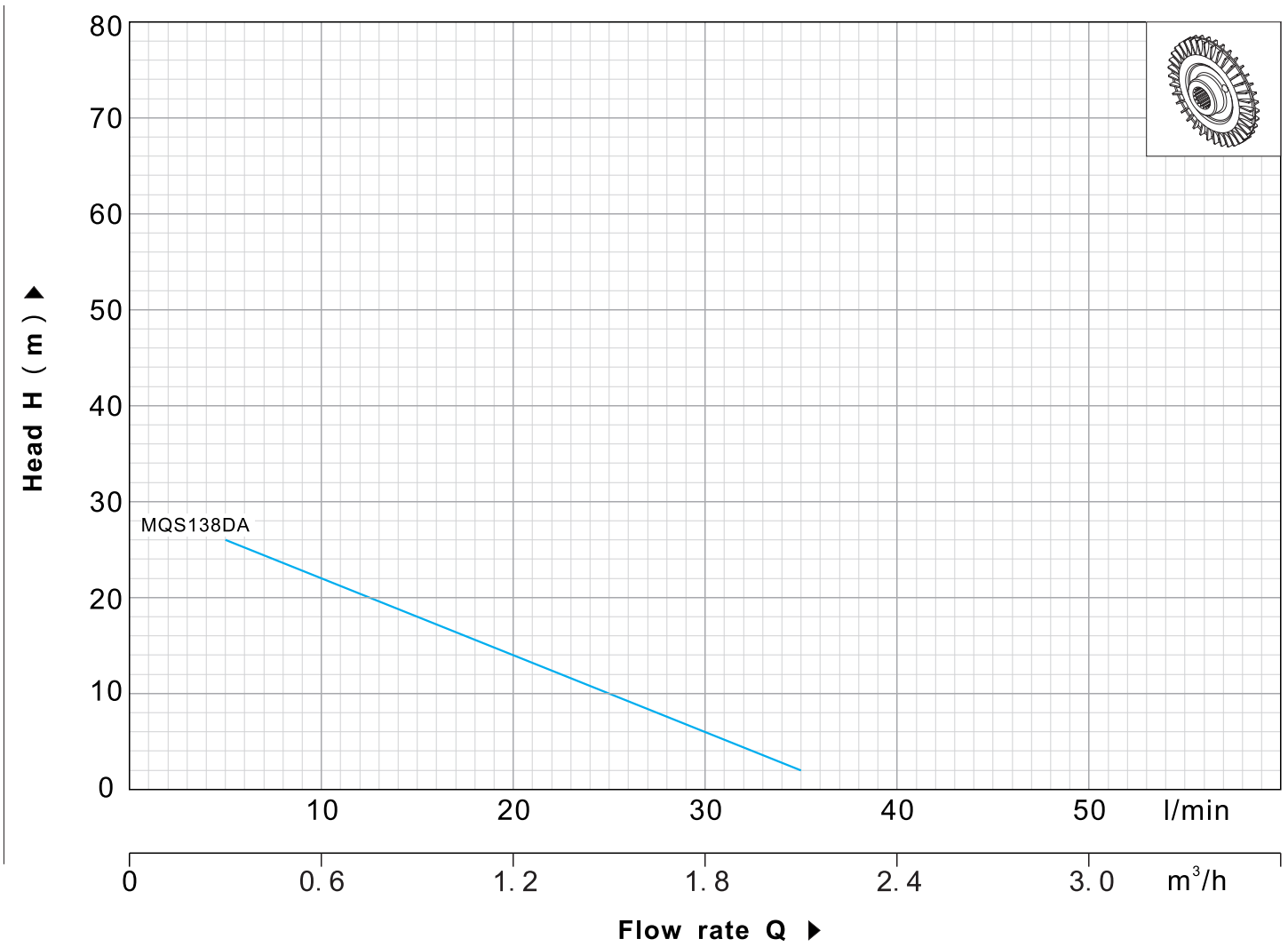
- Pump body: Cast iron (electrophoretic paint with brass insert).
- Impeller: Brass.
- Impeller cover: Brass.
- Mechanical seal: Graphite-Ceramic-NBR.
- Bearing: Z4 class.
- Shaft: Stainless steel.

Guarantee

- 2 years subject to terms and conditions.

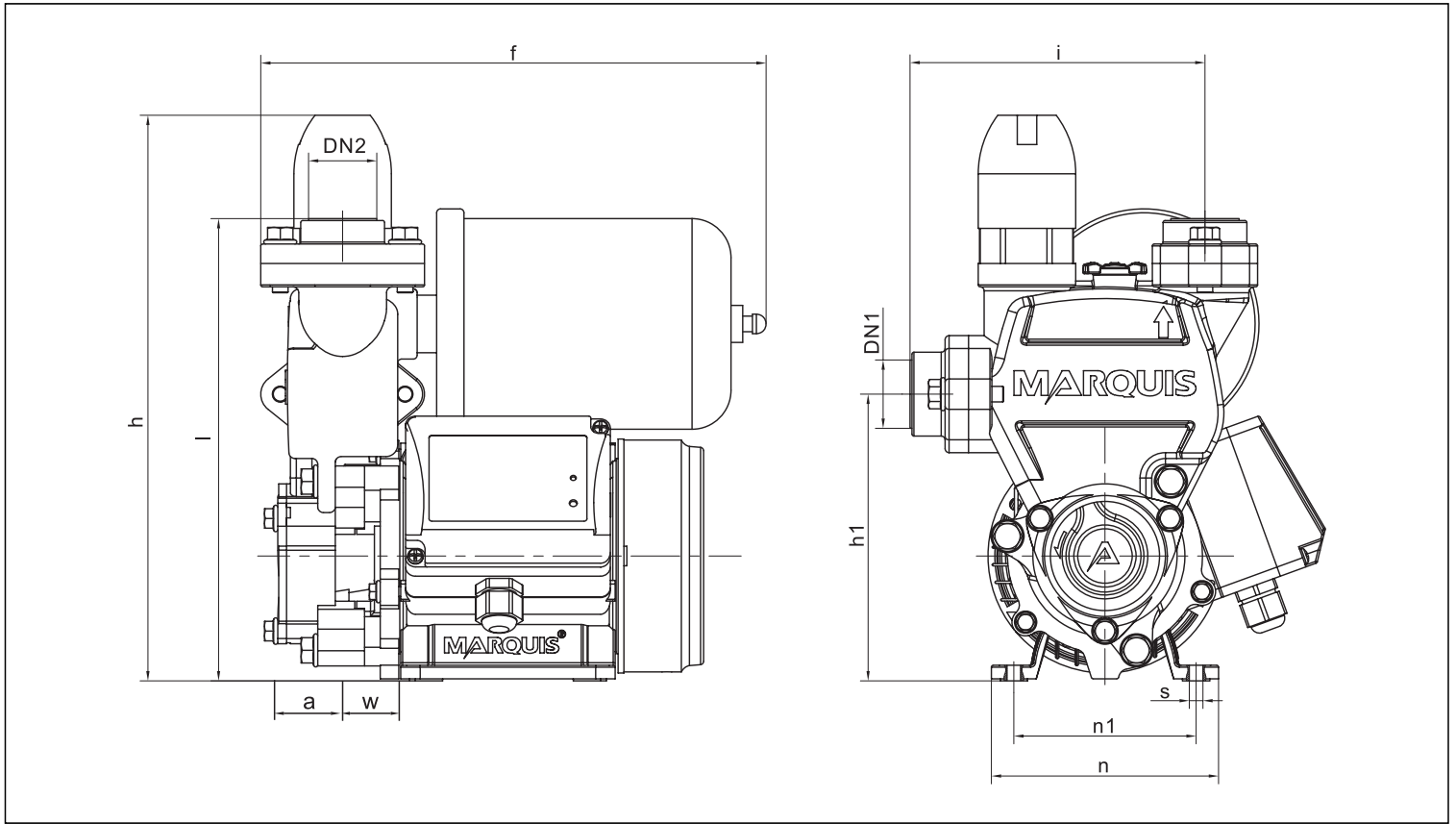
Features

- Control the pump automatically(on/off).
- Protect the pump from dry running or jam.
- Starting pressure: 1.5bar.
- **Operation procedure:**
 1. Pump automatically start running after the power connection.
 2. Tap turned on: pump keep on running.
 3. Tap turned off: pump turns into pressure keep mode after running $8 \pm 2\text{s}$.
 4. Slowly turn on the tap, the pressure drops to starting point, the pump restarts.
- **Operation procedure(water supply stop)**
 1. Pump stops after running 8s.
 2. Pause for 2s(checking if any water in the pipe).
 3. Pump restarts and running for 8min.(during this period, water comes back, and controller back to work).
 4. Or the pump stops for 1 hour.
 5. Then the pump restarts and running for 8min(operation procedure as above).
 6. Then the pump stops for 1 hour.
 7. Then the pump restarts and running for 8min(operation procedure as above).
 8. Pump stops to turn into dry running protection mode, this procedure runs automatically every 6 hours.



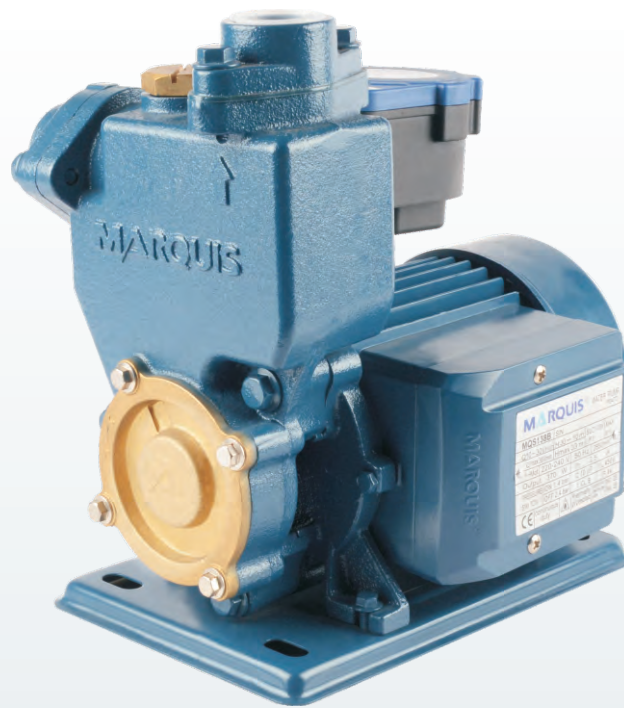
Model	Power		Starting pressure	Suction lift	Q	m³/h										
	KW	HP				Bar	Hs m	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4
MQS138DA	0.37	0.50	1.5	8	Hm	33	26	22	17	12	7	4	2			

MQS Automatic Self-priming Peripheral Pump(Double Control)



Model		Inlet/Outlet(*)		Dimensions(mm)									
Single-phase	Three-phase	DN1	DN2	a	f	h	h1	i	l	n	n1	w	s
MQS138DA	-	1"	1"	35	260	290	147	160	237	118	100	38	7

Model	Piece	GW(kg)	NW(kg)	Volume(m ³)	L(cm)	W(cm)	H(cm)
MQS138DA	1	9.2	8.2	0.024	32.0	24.0	31.0



Limits of use

- Liquid temperature: $-10^{\circ}\text{C} \sim +60^{\circ}\text{C}$.
- Power: single-phase 220V/50Hz.
- Max. working pressure: 6bar.

Features

- Build with pressure meter and digital control design, the pressure (start point and stop point) of the switch can be adjusted freely and easily.
- Special design with higher quality spare parts to assure long using life, more than 300,000 times (on&off).
- Photoelectric control to avoid the pump frequently starts and stops, extending the life of the pump.

Guarantee

- 2 years subject to terms and conditions.

Application

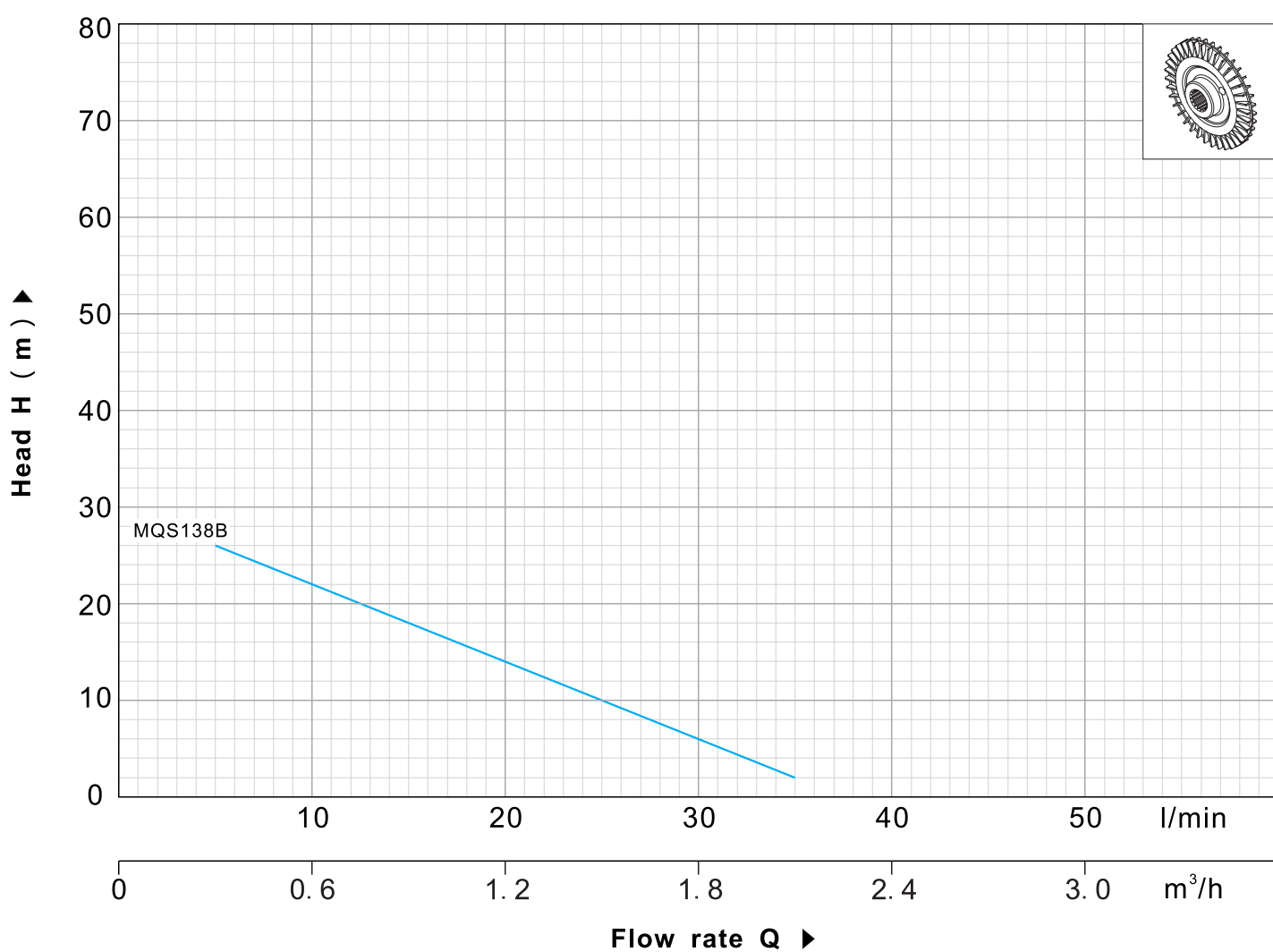
- Be used to delivery the clean water without the abrasive particles.
- Be used to clean or cool the machine tools with high pressure.
- Be used to pump the water for the industrial or house use from the well or tank.
- Be used to boost the water in pressurization system.

Components&Materials

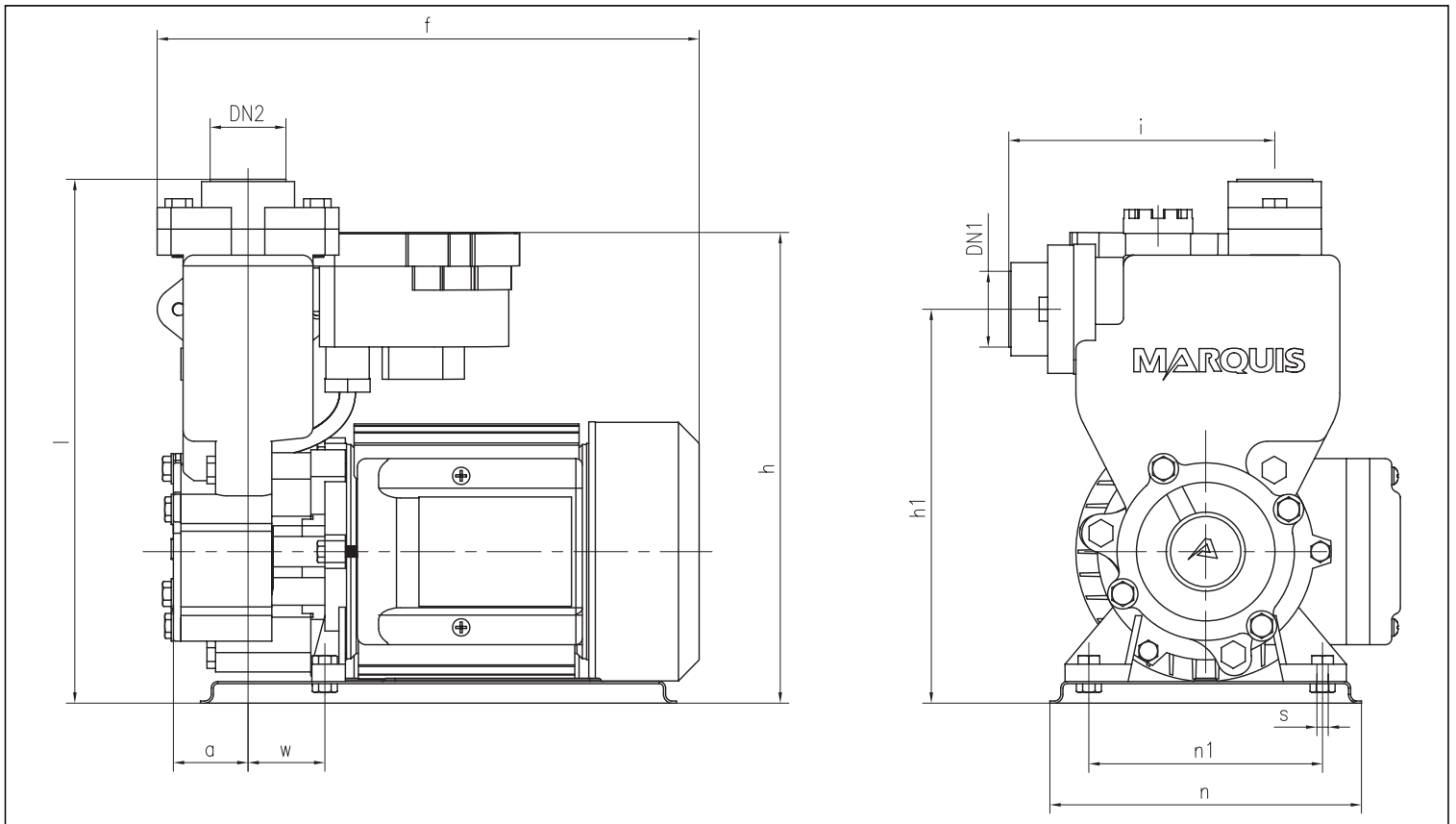
- Pump body: Cast iron (electrophoretic paint with brass insert).
- Impeller: Brass.
- Impeller cover: Brass.
- Mechanical seal: Graphite-Ceramic-NBR.
- Bearing: Z4 class.
- Shaft: Stainless steel.

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n=2850 rpm Hs=0 m



Model	Power		pressure range	Suction lift	Q	Flow rate										
	KW	HP				kg	Hs m	m³/h	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1
Single-phase						l/min	0	5	10	15	20	25	30	35	40	45
MQS138B	0.37	0.50	0-6	8	Hm	33	26	22	17	12	7	4	2			



Model		Inlet/Outlet(*)		Dimensions(mm)									
Single-phase	Three-phase	DN1	DN2	a	f	h	h1	i	l	n	n1	w	s
MQS138B	-	1"	1"	35	240	220	183	124	245	144	108	38	7

Model	Piece	GW(kg)	NW(kg)	Volume(m³)	L(cm)	W(cm)	H(cm)
MQS138B	1	9.3	8.5	0.015	27.0	20.5	28.0



Limits of use

- Liquid temperature: -10°C ~ +60°C.
- Power: single-phase 220V/50Hz.
- Max. working pressure: 6.5bar.

Features

- Build-in check valve, this pump can be used without charging water again after first water injection.
- This pump can be easily installed through its flanges with screw thread connection with the pipe.
- End-user can easily clean the pump casing through disassembling the impeller cover to prevent the impeller from jam.
- Built-in thermal protector to prevent motor from overheating.
- Build with the pressure switch and tank to control the pump automatically.

Guarantee

- 2 years subject to terms and conditions.

Application

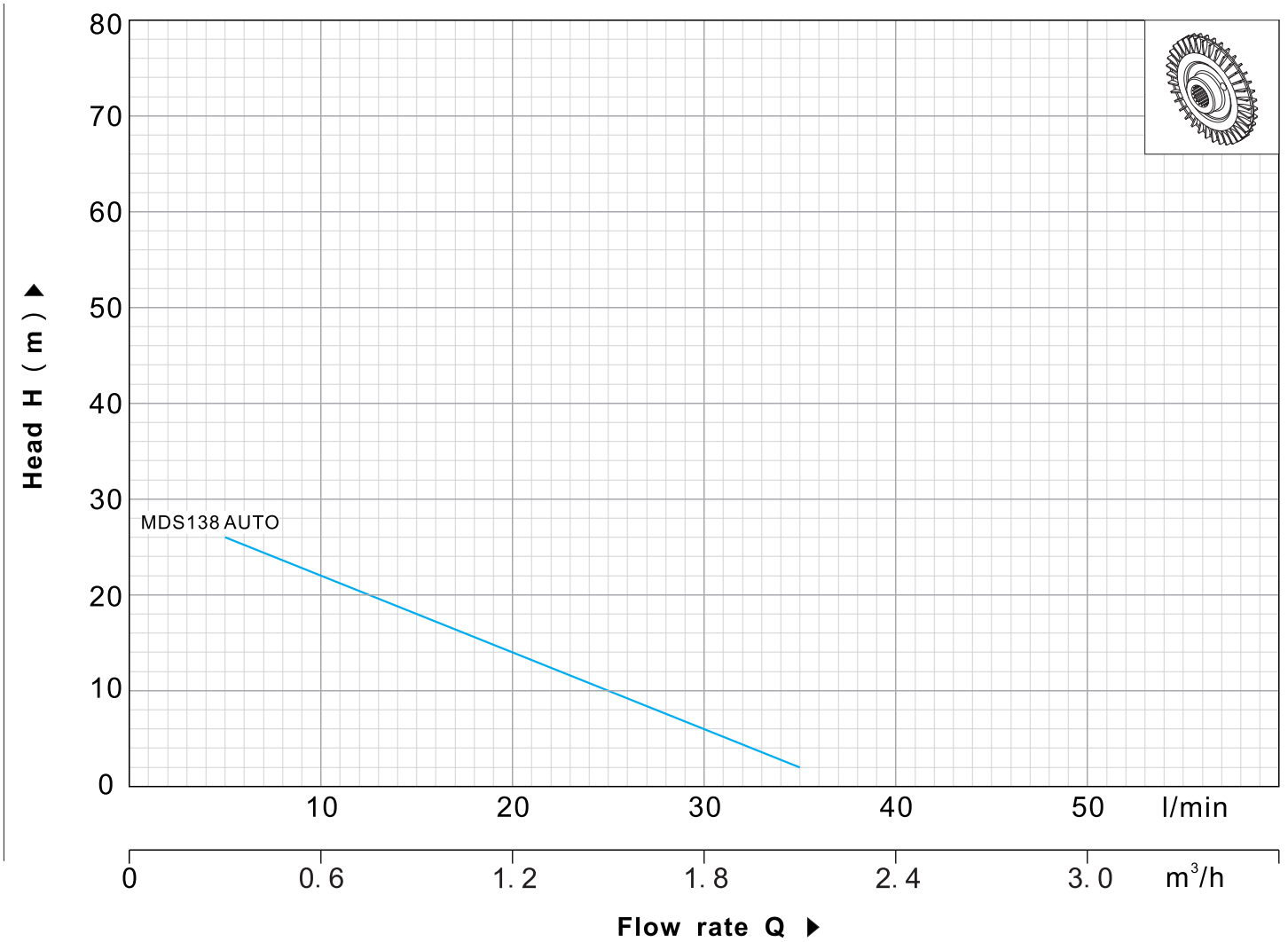
- Be used to delivery the clean water without the abrasive particles.
- Be used to clean or cool the machine tools with high pressure.
- Be used to pump the water for the industrial or house use from the well or tank.
- Be used to boost the water in pressurization system.

Components&Materials

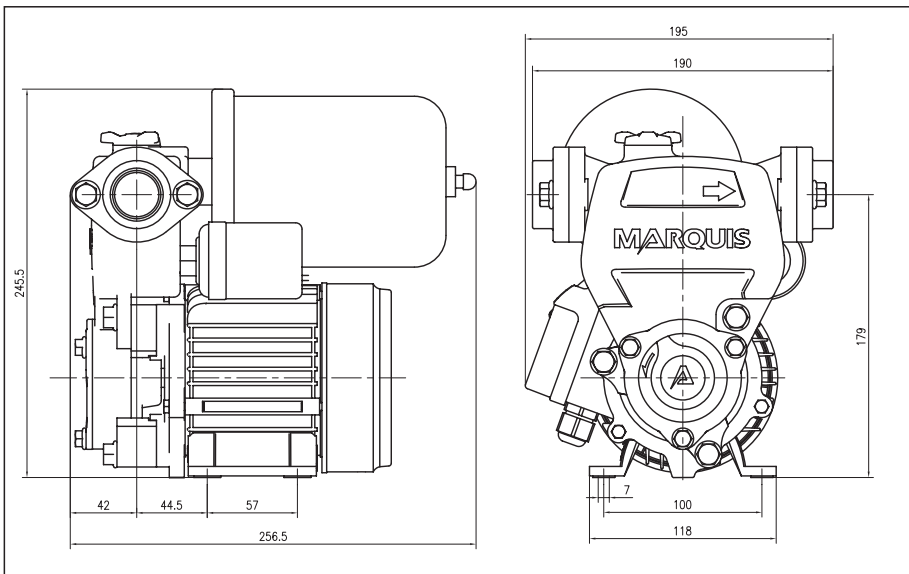
- Pump body: Cast iron (electrophoretic paint with brass insert).
- Impeller: Brass.
- Impeller cover: Brass.
- Mechanical seal: Graphite-Ceramic-NBR.
- Bearing: Z4 class.
- Shaft: Stainless steel.

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n=2850 rpm Hs=0 m



Model	Power		pressure range (bar)	Suction lift Hs m	Q	Flow rate													
	KW	HP				0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7				
MDS138 AUTO	0.37	0.50	1.4-2.2	8	H m	33	26	22	17	12	7	4	2						



Model	MDS138 AUTO
Piece	1
GW(kg)	9.6
NW(kg)	8.6
Volume(m³)	0.020
L(cm)	28.5
W(cm)	22.0
H(cm)	28.0



Limits of use

- Liquid temperature: $-10^{\circ}\text{C} \sim +60^{\circ}\text{C}$.
- Power: single-phase 220V/50Hz.
- Max. working pressure: 6.5bar.

Features

- Build-in check valve, this pump can be used without charging water again after first water injection.
- This pump can be easily installed through its flanges with screw thread connection with the pipe.
- End-user can easily clean the pump casing through disassembling the impeller cover to prevent the impeller from jam.
- Built-in thermal protector to prevent motor from overheating.
- Build with the pressure switch and tank to control the pump automatically.
- Build with the base support to assure the pump be easily installed and stable operation.
- Equipped with the cover to reduce the noise while the pump running.

Guarantee

- 2 years subject to terms and conditions.

Application

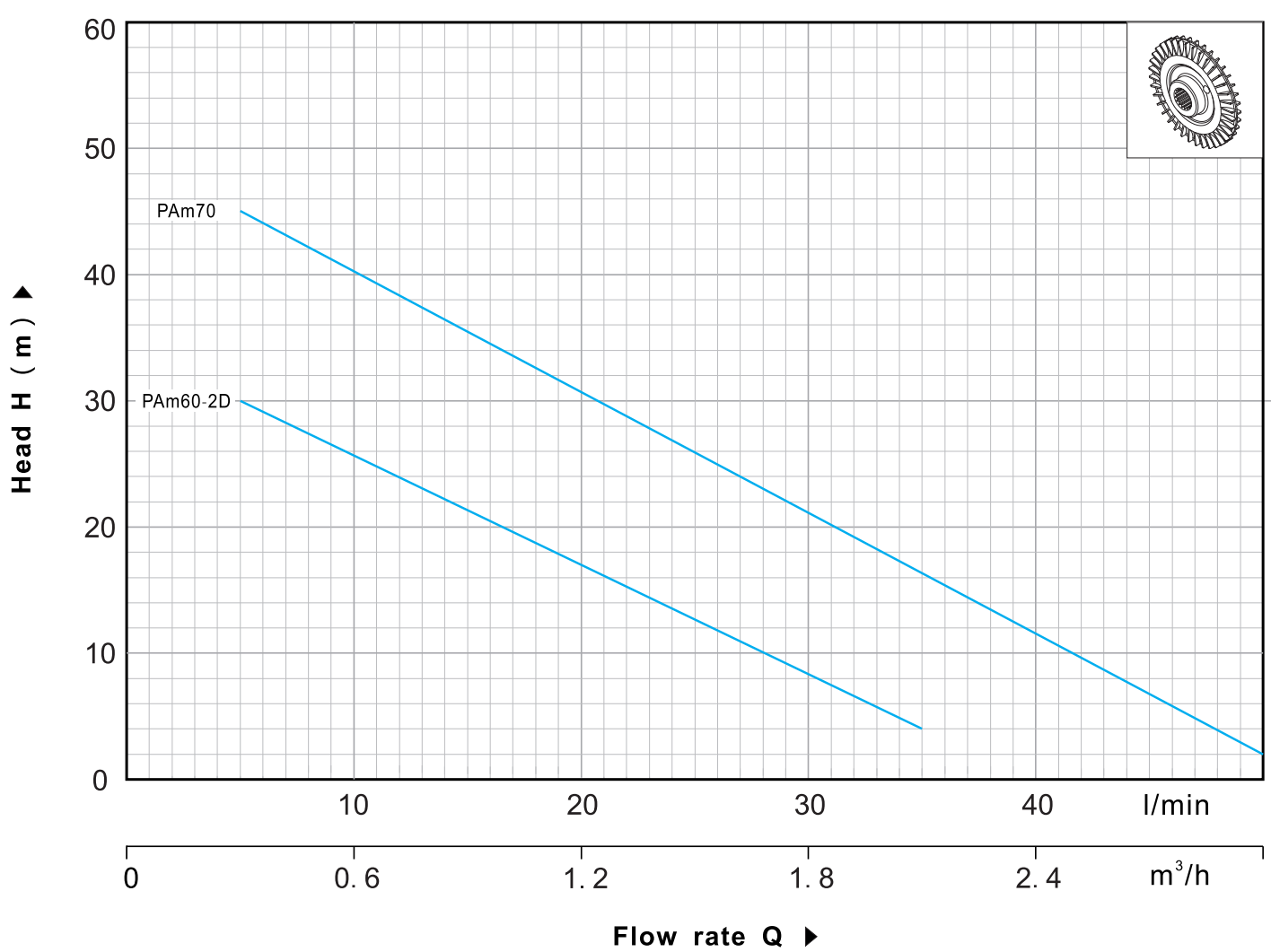
- Be used to delivery the clean water without the abrasive particles.
- Be used to clean or cool the machine tools with high pressure.
- Be used to pump the water for the industrial or house use from the well or tank.
- Be used to boost the water in pressurization system.

Components&Materials

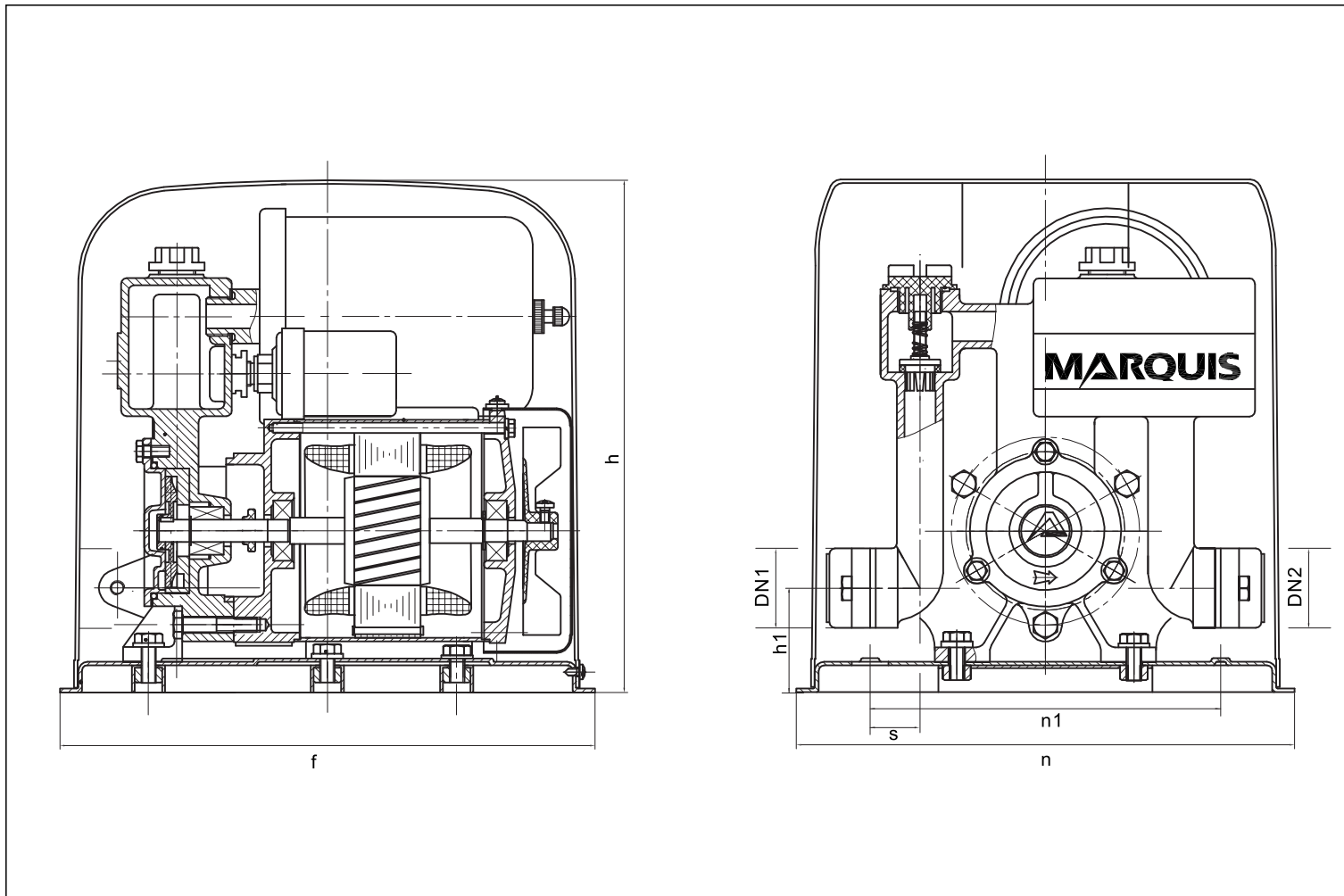
- Pump body: Cast iron (electrophoretic paint with brass insert).
- Impeller: Brass.
- Impeller cover: Brass.
- Mechanical seal: Graphite-Ceramic-NBR.
- Bearing: Z4 class.
- Shaft: Stainless steel.

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n=2850 rpm Hs=0 m



Model	Power		Pressure range (bar)	Suction lift Hs m	Q	Flow rate													
	KW	HP				0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0			
Single-phase			on/off			0	5	10	15	20	25	30	35	40	45	50			
PAm60-2D	0.25	0.33	1.4-2.0	8	H m	33	30	27	22	17	12	7	4						
PAm70	0.37	0.5	2.0-3.2	8		48	45	42	38	32	26	20	14	9	5	2			

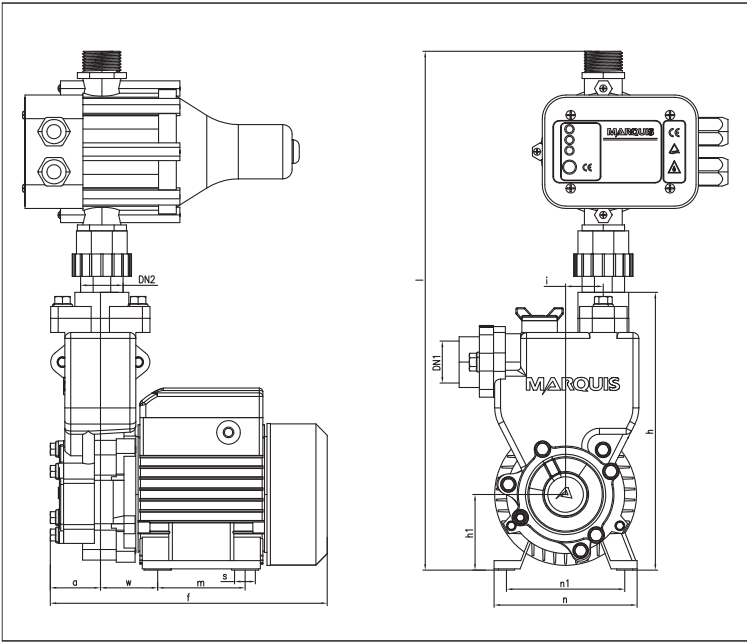


Model		Inlet/Outlet(°)		Dimensions(mm)					
Single-phase	Three-phase	DN1	DN2	f	h	h1	n	n1	s
PAm60-2D	-	1"	1"	265	276.5	71	270	190	10
PAm70	-	1"	1"	290	251	71	234	96	9

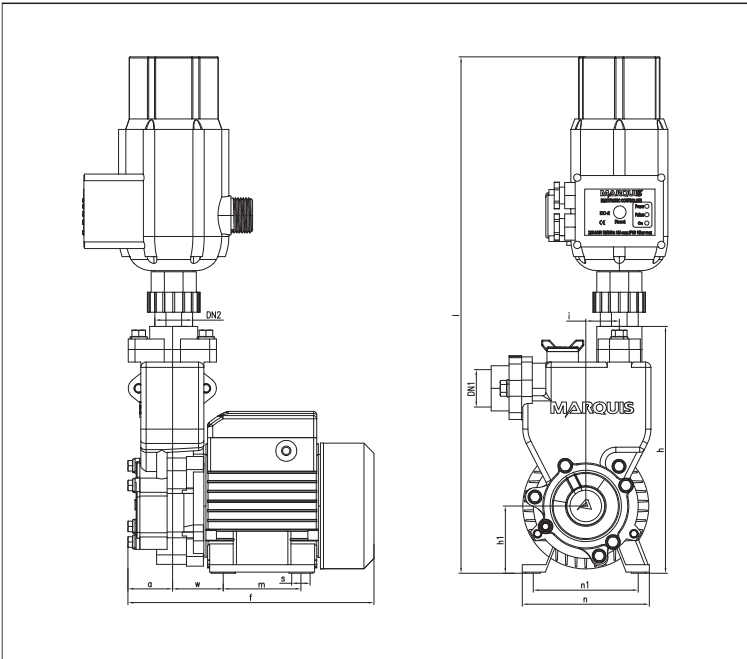
Model	Piece	GW(kg)	NW(kg)	Volume(m³)	L(cm)	W(cm)	H(cm)
PAm60-2D	1	14.3	13.8	0.030	33	29.5	31
PAm70	1	15.4	14.6	0.031	32.5	30.5	31.5



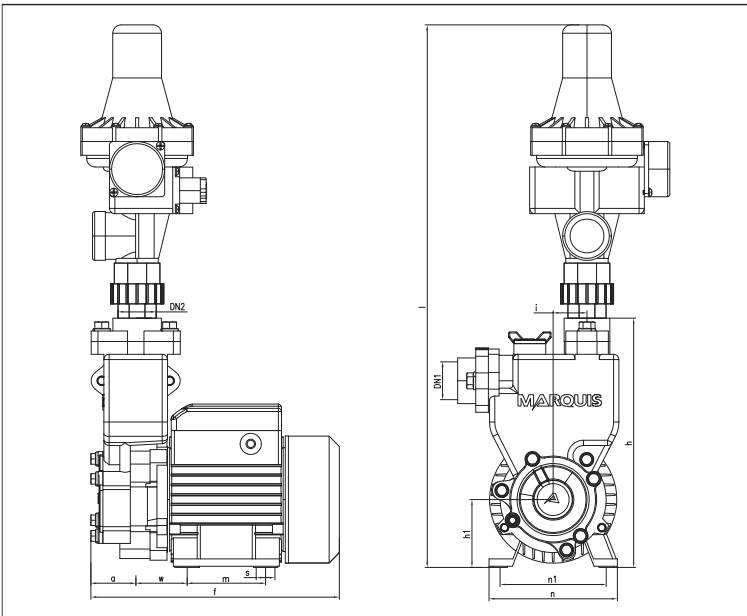
Model	Piece	GW(kg)	NW(kg)	Volume(m ³)	L(cm)	W(cm)	H(cm)
MQS121-EC1(P)	1	8.8	8.3	0.019	37.3	24.8	21.0
MQS121-EC2(P)	1	8.8	8.3	0.019	37.3	24.8	21.0
MQS121-EC3(P)	1	8.8	8.3	0.019	37.3	24.8	21.0
MQS125-EC1(P)	1	9.0	8.5	0.023	35.8	25.8	24.8
MQS125-EC2(P)	1	9.0	8.5	0.023	35.8	25.8	24.8
MQS125-EC3(P)	1	9.0	8.5	0.023	35.8	25.8	24.8
MQS128-EC1(P)	1	9.3	8.8	0.025	36.0	25.5	27.0
MQS128-EC2(P)	1	9.3	8.8	0.025	36.0	25.5	27.0
MQS128-EC3(P)	1	9.3	8.8	0.025	36.0	25.5	27.0
MQS228-EC1(P)	1	12.5	12.0	0.034	40.3	28.8	29.5
MQS228-EC2(P)	1	12.5	12.0	0.034	40.3	28.8	29.5
MQS228-EC3(P)	1	12.5	12.0	0.034	40.3	28.8	29.5
MQS328-EC1(P)	1	13.5	13.0	0.034	40.3	28.8	29.5
MQS328-EC2(P)	1	13.5	13.0	0.034	40.3	28.8	29.5
MQS328-EC3(P)	1	13.5	13.0	0.034	40.3	28.8	29.5
MQS428-EC1(P)	1	15.2	14.7	0.037	40.3	28.8	31.5
MQS428-EC2(P)	1	15.2	14.7	0.037	40.3	28.8	31.5
MQS428-EC3(P)	1	15.2	14.7	0.037	40.3	28.8	31.5



Model	Inlet/Outlet(-)		Dimensions(mm)										
	DN1	DN2	a	w	m	s	f	n	n1	h1	h	i	l
MQS121-EC1(P)	1"	1"	32	70	72	7	253	121	100	64	178	31	382
MQS125-EC1(P)	1"	1"	35	49	72	7	233	121	100	64	207	32	412
MQS128-EC1(P)	1"	1"	42	48	80	7	234	121	100	64	235	32	439
MQS228-EC1(P)	1"	1"	39	62	88	7	273	137	110	71	252	43	456
MQS328-EC1(P)	1"	1"	39	62	88	7	273	137	110	71	252	43	456
MQS428-EC1(P)	1"	1"	39	62	88	7	274	137	113	71	272	43	476



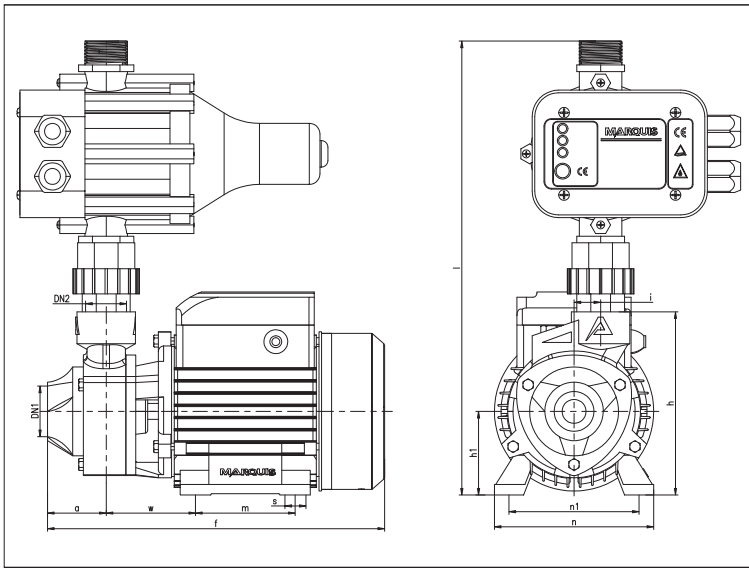
Model	Inlet/Outlet(-)		Dimensions(mm)										
	DN1	DN2	a	w	m	s	f	n	n1	h1	h	i	l
MQS121-EC2(P)	1"	1"	32	70	72	7	253	121	100	64	178	31	434
MQS125-EC2(P)	1"	1"	35	49	72	7	233	121	100	64	207	32	464
MQS128-EC2(P)	1"	1"	42	48	80	7	234	121	100	64	235	32	491
MQS228-EC2(P)	1"	1"	39	62	88	7	273	137	110	71	252	43	508
MQS328-EC2(P)	1"	1"	39	62	88	7	273	137	110	71	252	43	508
MQS428-EC2(P)	1"	1"	39	62	88	7	274	137	113	71	272	43	528



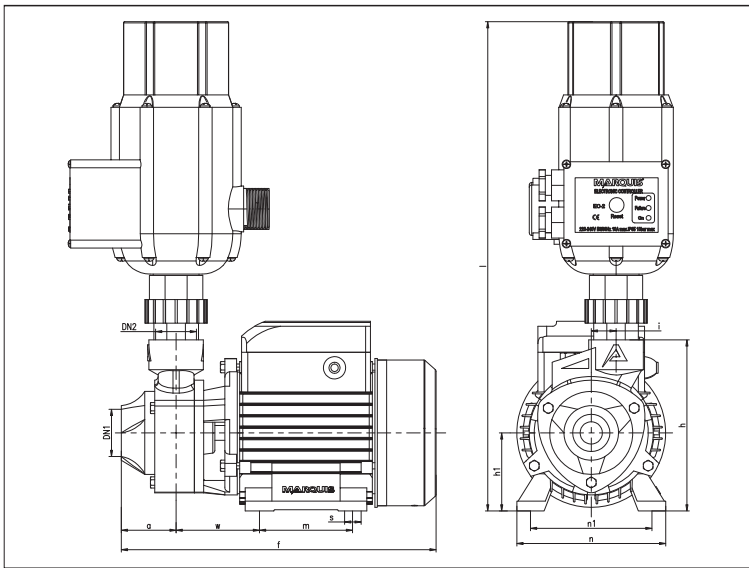
Model	Inlet/Outlet(-)		Dimensions(mm)										
	DN1	DN2	a	w	m	s	f	n	n1	h1	h	i	l
MQS121-EC3(P)	1"	1"	32	70	72	7	253	121	100	64	178	31	454
MQS125-EC3(P)	1"	1"	35	49	72	7	233	121	100	64	207	32	484
MQS128-EC3(P)	1"	1"	42	48	80	7	234	121	100	64	235	32	511
MQS228-EC3(P)	1"	1"	39	62	88	7	273	137	110	71	252	43	528
MQS328-EC3(P)	1"	1"	39	62	88	7	273	137	110	71	252	43	528
MQS428-EC3(P)	1"	1"	39	62	88	7	274	137	113	71	272	43	548



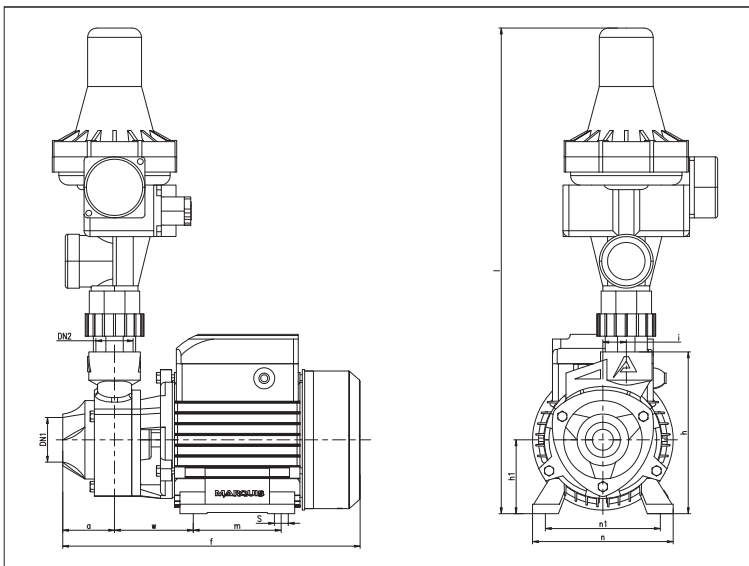
Model	Piece	GW(kg)	NW(kg)	Volume(m ³)	L(cm)	W(cm)	H(cm)
MKP50-EC1(P)	1	5.8	5.3	0.016	35.3	23.3	19.0
MKP50-EC2(P)	1	5.8	5.3	0.016	35.3	23.3	19.0
MKP50-EC3(P)	1	5.8	5.3	0.016	35.3	23.3	19.0
MKP61-EC1(P)	1	6.9	6.4	0.021	34.5	28.5	21.0
MKP61-EC2(P)	1	6.9	6.4	0.017	33.0	28.5	18.0
MKP61-EC3(P)	1	6.9	6.4	0.016	31.5	28.5	18.0
MKP62-EC1(P)	1	7.1	6.6	0.021	34.5	28.5	21.0
MKP62-EC2(P)	1	7.1	6.6	0.017	33.0	28.5	18.0
MKP62-EC3(P)	1	7.1	6.6	0.016	31.5	28.5	18.0
MKP63-EC1(P)	1	7.6	7.1	0.021	34.5	28.5	21.0
MKP63-EC2(P)	1	7.6	7.1	0.017	33.0	28.5	18.0
MKP63-EC3(P)	1	7.6	7.1	0.016	31.5	28.5	18.0
MKP70-1-EC1(P)	1	10.2	9.7	0.010	30.5	16.0	20.0
MKP70-1-EC2(P)	1	10.2	9.7	0.021	40.8	24.3	21.5
MKP70-1-EC3(P)	1	10.2	9.7	0.021	40.8	24.3	21.5
MKP80-1-EC1(P)	1	20.1	19.0	0.024	43.6	24.7	22.2
MKP80-1-EC2(P)	1	20.1	19.0	0.024	43.6	24.7	22.2
MKP80-1-EC3(P)	1	20.1	19.0	0.024	43.6	24.7	22.2



Model	Inlet/Outlet(°)		Dimensions(mm)										
	DN1	DN2	a	w	m	s	f	n	n1	h1	h	i	l
MKP50-EC1(P)	1"	1"	40	60	57	7	230	118	100	63	130	17	334
MKP61-EC1(P)	1"	1"	45	65	80	7	255	120	100	63	140	20	344
MKP62-EC1(P)	1"	1"	44	67	75	7	253	120	98	63	138	20	342
MKP63-EC1(P)	1"	1"	45	60	57	7	230	118	100	63	138	17	342
MKP70-1-EC1(P)	1"	1"	47	66	90	7	285	137	110	71	155	20	360
MKP80-1-EC1(P)	1"	1"	56	77	90	7	305	137	110	71	163	22	367



Model	Inlet/Outlet(°)		Dimensions(mm)										
	DN1	DN2	a	w	m	s	f	n	n1	h1	h	i	l
MKP50-EC2(P)	1"	1"	40	60	57	7	230	118	100	63	130	17	386
MKP61-EC2(P)	1"	1"	45	65	80	7	255	120	100	63	140	20	396
MKP62-EC2(P)	1"	1"	44	67	75	7	253	120	98	63	138	20	394
MKP63-EC2(P)	1"	1"	45	60	57	7	230	118	100	63	138	17	394
MKP70-1-EC2(P)	1"	1"	47	66	90	7	285	137	110	71	155	20	411
MKP80-1-EC2(P)	1"	1"	56	77	90	7	305	137	110	71	163	22	419



Model	Inlet/Outlet(°)		Dimensions(mm)										
	DN1	DN2	a	w	m	s	f	n	n1	h1	h	i	l
MKP50-EC3(P)	1"	1"	40	60	57	7	230	118	100	63	130	17	406
MKP61-EC3(P)	1"	1"	45	65	80	7	255	120	100	63	140	20	416
MKP62-EC3(P)	1"	1"	44	67	75	7	253	120	98	63	138	20	414
MKP63-EC3(P)	1"	1"	45	60	57	7	230	118	100	63	138	17	414
MKP70-1-EC3(P)	1"	1"	47	66	90	7	285	137	110	71	155	20	431
MKP80-1-EC3(P)	1"	1"	56	77	90	7	305	137	110	71	163	22	439



Limits of use

- Immersion depth up to 3m.
- Liquid temperature up to +40°C.
- Passage of suspended solids up to Φ 10mm (SP100: Φ 4mm).
- Suction level: 14mm above the ground level.
- SP/SUP: single phase 220-240V/50Hz with capacitor and thermal overload protector built into the winding.

Performance range

- Flow rate up to 130 l/min (7.8m³/h).
- Head up to 7m.

Installation&Use

- The SP/SUP series is suitable for draining clean water without abrasive particles.
- The construction guarantees simple and safe operation due to the complete cooling of the motor by the pumped water and the double seal design.
- They are recommended for emergency draining of small flooded areas (rooms, cellars, garages), for the disposal of non-sewage waste water in the home (dishwasher, washing machine) and for emptying drainage traps.

Components&Materials

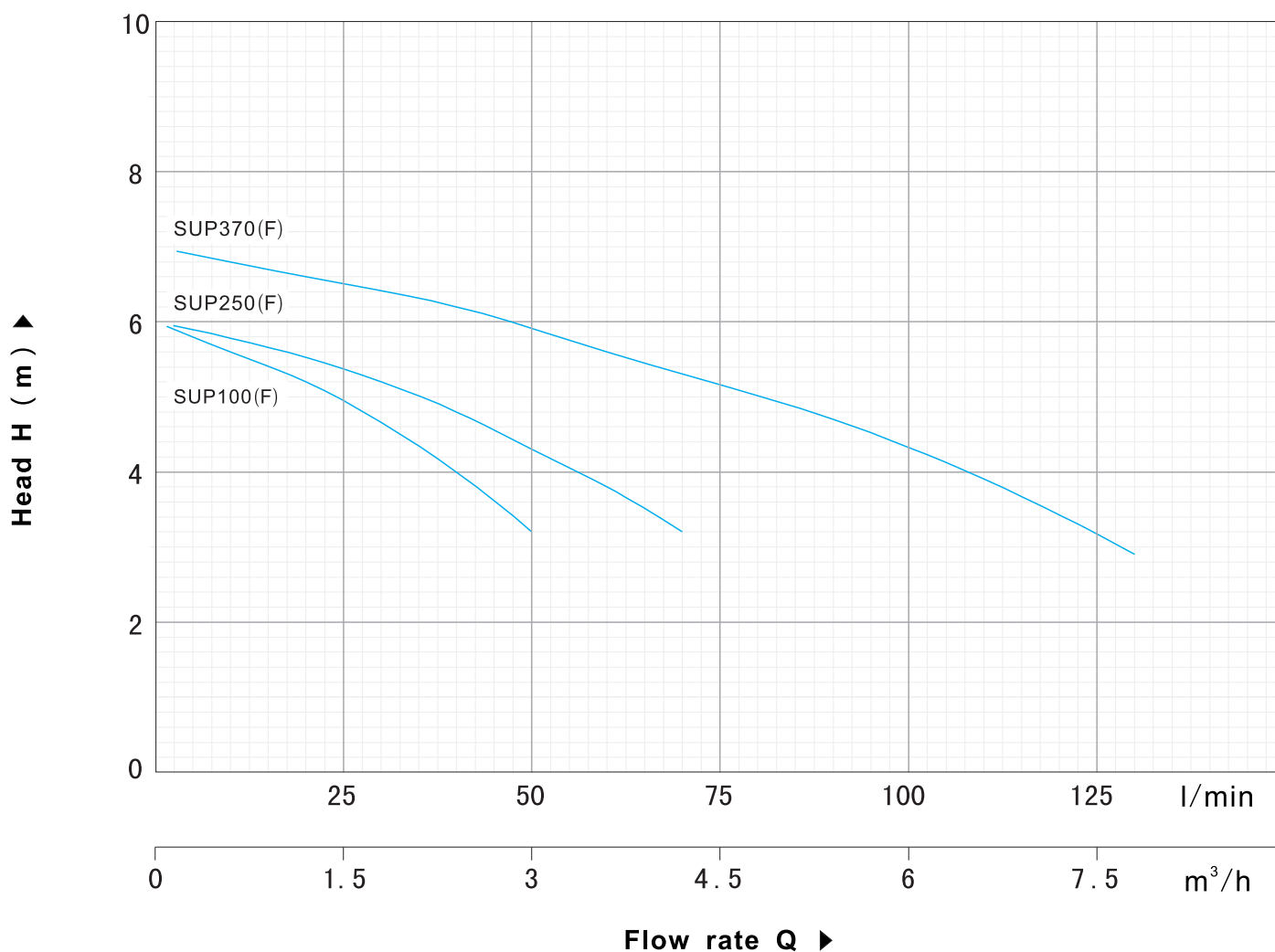
- Pump discharge body: Glassfibre filled with technopolymer.
- Suction grid: Technopolymer.
- Impeller: Technopolymer (open type).
- Motor frame: Stainless steel AISI 304.
- Motor shaft: Stainless steel AISI 420.
- Double seal: Mechanical seal (Ceramic-Graphite) with oil barrier chamber and inner lip seal to protect the M/S in the event of dry running.
- Motor: Submersible asynchronous single-phase for continuous duty.
- Insulation: Class F.
- Protection: IP 68.
- Type code "F" means pump equipped with float switch.

Guarantee

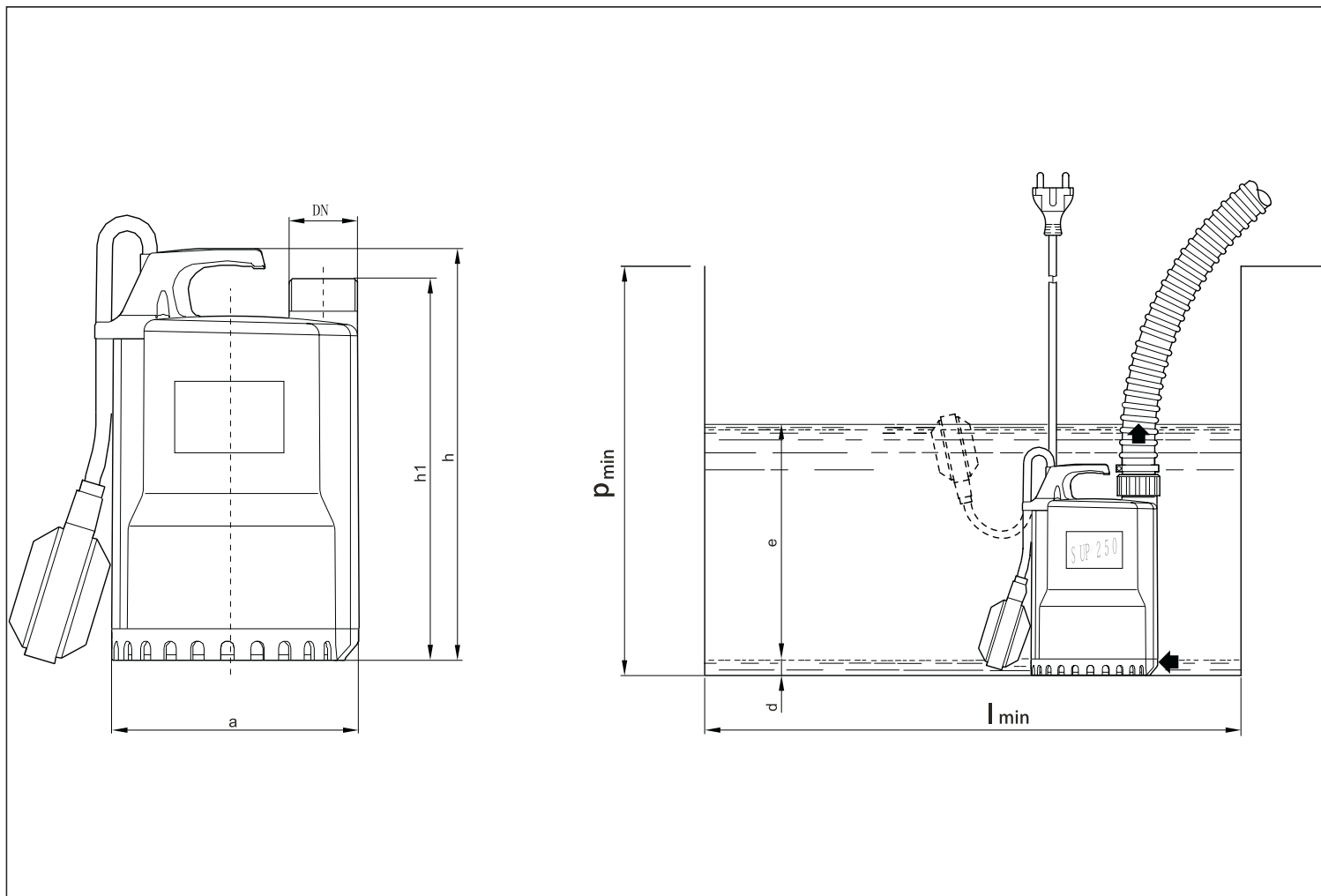
- 1 year subject to terms and conditions.

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n=2850 rpm Hs=0 m



Model	Power		Q	m³/h	0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	5.4	6.6	7.8	
	KW	HP		l/min	0	10	20	30	40	50	60	70	90	110	130	
SP100F	0.1	0.15	H m		6	5.6	5.2	4.7	4	3.2						
SUP250F	0.25	0.33			6	5.8	5.5	5.2	4.8	4.3	3.8	3.2				
SUP370F	0.37	0.5			7	6.8	6.6	6.4	6.2	5.9	5.6	5.3	4.7	3.9	2.9	



Model	Inlet/Outlet(“)	Dimensions(mm)						
		a	h	h1	d	e	l min	P min
Single-phase	DN							
SP100F	1"	136	235	251	14	Adjustable	350	350
SUP250F	1"	152	232	217	14		350	350
SUP370F	1 1/4"	152	257	237	14		350	350

Model	Piece	GW(kg)	NW(kg)	Volume(m ³)	L(cm)	W(cm)	H(cm)
SP100F	1	4.2	3.7	0.009	17.5	17.5	28.5
SUP250F	1	4	3.5	0.011	20	19	30
SUP370F	1	5.3	4.8	0.011	20	19	30



Limits of use

- Immersion depth up to 5m.
- Liquid temperature up to +40°C.
- Suction level: 14mm above the ground level.
- Passage of suspended solid up to Φ 2mm.
- For the continuous duty: minimum immersion 240 mm from pump base.
- Single-phase 220-240V/50Hz with capacitor and thermal overload protector.

Range of performance

- Flow rate up to 700 l/min (42m³/h).
- Head up to 12m.

Installation & use

- As portable electric drainage and irrigation devices, SA series single-phase, vertical submersible pumps are designed for draining clean or slightly dirty water with small solids, they are recommended for domestic, civil and professional use.
- For draining flooded areas such as cellars and garages or for emptying swimming pools or tanks and for disposing of non-sewage waste water.
- They are outstanding both in their sturdiness and their reliability.

Components & Materials

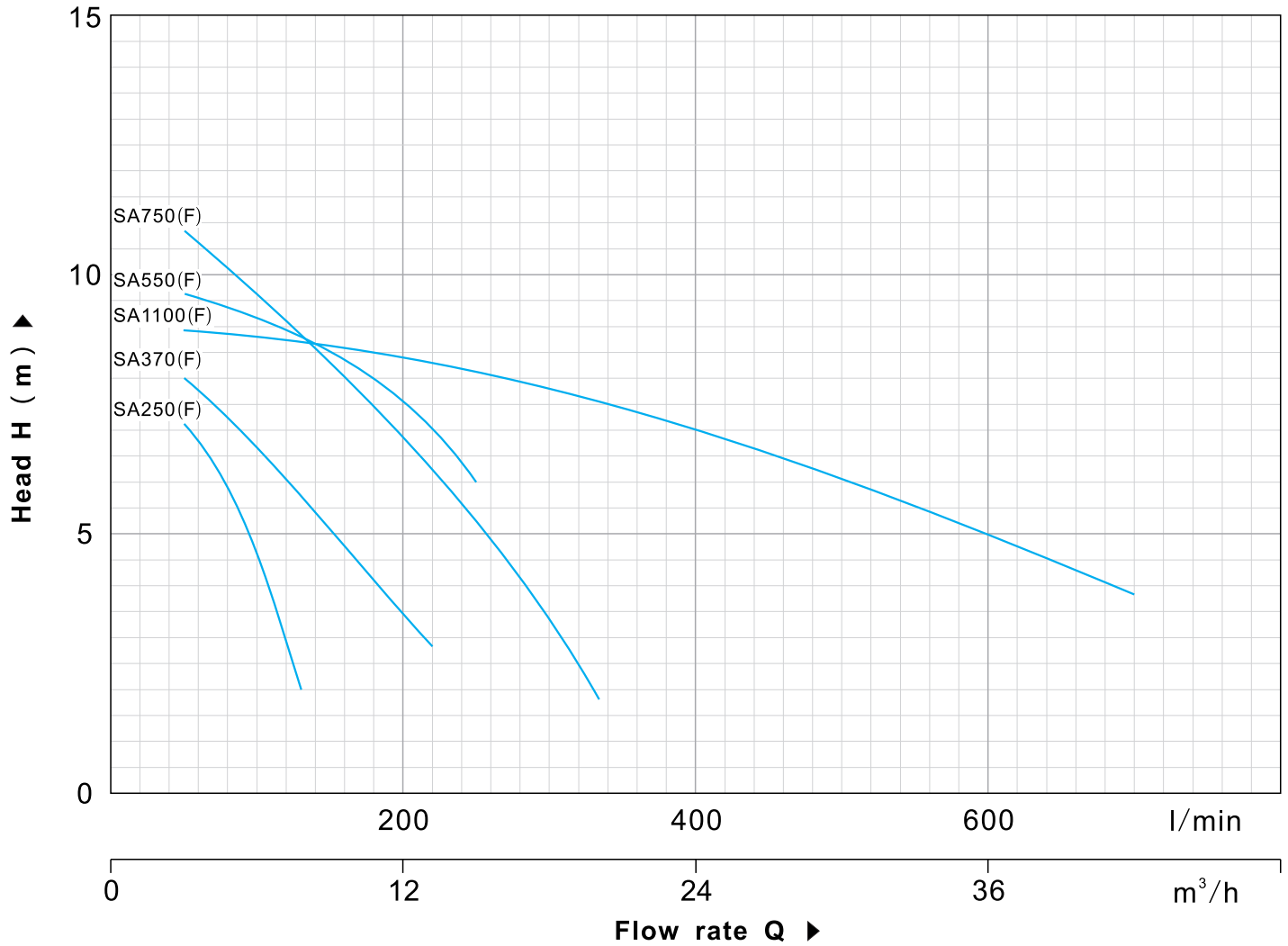
- Pump body: Aluminum, with threaded opening.
- Suction grid: Stainless steel AISI 304.
- Impeller: Cast iron or nylon with technopolymer (open type).
- Motor frame: Stainless steel AISI 304.
- Motor shaft: Stainless steel AISI 420.
- Double seal: Mechanical seal (ceramic-graphite) or (silicon-graphite), with oil barrier chamber and inner lip seal to protect the seal in the event of dry running.
- Motor: Submersible asynchronous for continuous duty.
- Insulation: Class F.
- Protection: IP68.
- Type code "F" means pump equipped with float switch.

Guarantee

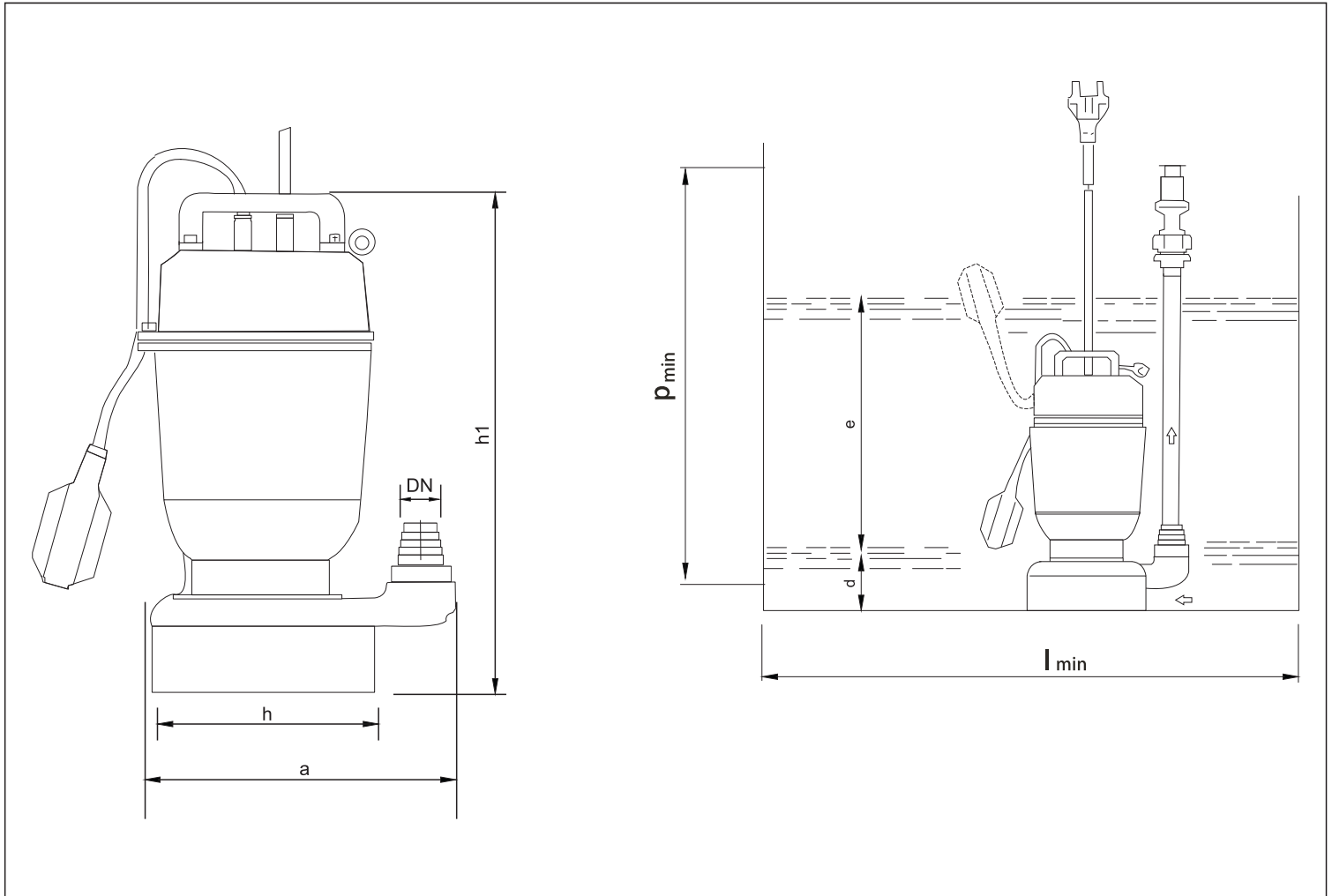
- 1 year subject to terms and conditions

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n=2850 rpm Hs=0 m



Model	Power		Q	m³/h	0	3	4.2	6.0	7.8	9.6	11.4	13.2	15.0	18.0	20.0	24.0	30.0	36.0	42.0		
	KW	HP		l/min	0	50	70	100	130	160	190	220	250	300	333.2	400	500	600	700		
SA250(F)	0.25	0.33	H m	8	7.1	6.3	4.4	2													
SA370(F)	0.37	0.5		9	8	7.5	6.5	5.5	4.6	3.5	2.8										
SA550(F)	0.55	0.75		10	9.6	9.5	9.2	8.9	8.5	7.9	7.1	6									
SA750(F)	0.75	1		12	10.8	10.3	9.5	8.7	8.0	7.2	6.2	5.2	3.4	1.8							
SA1100(F)	1.1	1.5		9	8.9	8.8	8.7	8.6	8.5	8.4	8.1	8.0	7.7	7.5	7.0	6.1	5.0	3.8			



Model	Inlet/Outlet(°)	Dimensions(mm)						
		a	h	h1	d	e	lmin	Pmin
SA250(F)	1 1/2"	205	185	325	40	Adjustable	685	350
SA370(F)	2"	250	220	415	40		720	450
SA550(F)	2"	245	220	400	40		720	450
SA750(F)	2"	270	235	415	40		735	450
SA1100(F)	3"	270	225	485	40		725	520

Model	Piece	GW(kg)	NW(kg)	Volume(m³)	L(cm)	W(cm)	H(cm)
SA250(F)	1	7.5	7	0.012	20.5	18.5	32.5
SA370(F)	1	12.5	11.5	0.023	25	22	41.5
SA550(F)	1	13.5	12.5	0.022	24.5	22	40
SA750(F)	1	15	14	0.026	27	23.5	41.5
SA1100(F)	1	21	20	0.035	32.5	22.5	48.5



Limits of use

- Immersion depth up to 5m.
- Liquid temperature up to +40°C.
- Passage of suspended solid up to Φ 30mm.
- Suction level: 40mm above ground level.
- For the continuous duty: minimum immersion 290 mm from pump base.
- Single-phase 220-240V/50Hz with capacitor and thermal overload protector.

Installation&Use

- V pumps are recommended for domestic, civil and industrial use, in applications where the water contains suspended solids with dimensions up to 30mm.
- Their use is recommended for drying flooded areas such as cellars, underground car parks, car washing areas, or domestic drains and for emptying cesspits or sewage disposal.
- These pumps are outstanding in their reliability in fixed installations with automatic operation.
- This system automatically starts the pump when the water reaches a preset level, stopping it once the water has been emptied, installing a suitable non-return valve on the delivery pipe prevents reverse flow when the pump stops.

Components&Materials

- Pump body: Stainless steel AISI 304.
- Motor frame: Stainless steel AISI 304.
- Chassis: Cast iron.
- Impeller: Cast iron or nylon impeller with technopolymer (open type).
- Motor shaft: Stainless steel AISI 420.
- Double seal: Mechanical seal (Ceramic-Graphite) or (Silicon-Graphite) with oil barrier chamber and inner lip seal to protect the sealing in the event of dry running.
- Motor: Submersible asynchronous for continuous duty.
- Insulation: Class F.
- Protection: IP68.
- Type code "F" means pump equipped with float switch.

Performance range

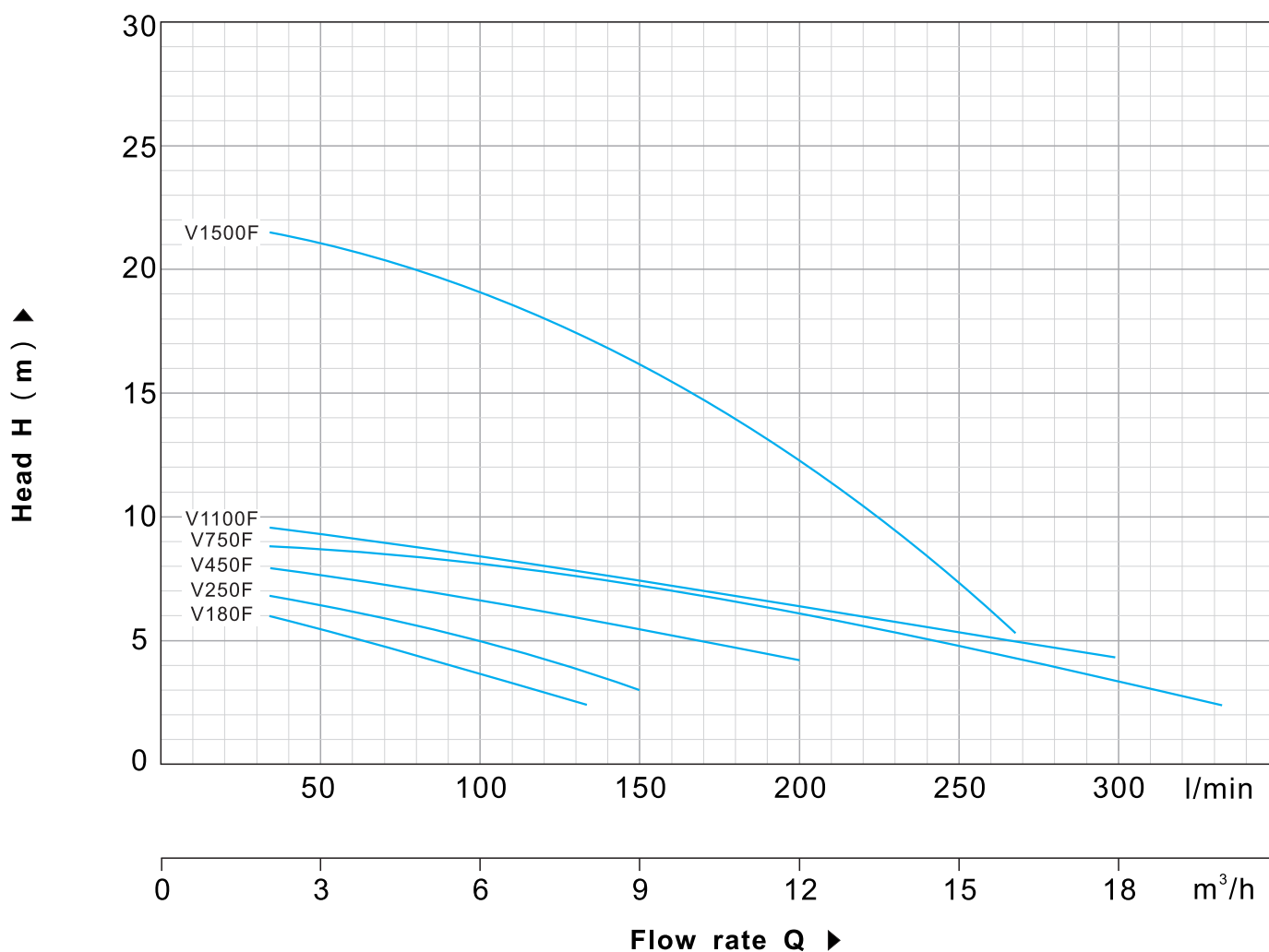
- Flow rate up to 333 l/min (20m³/h).
- Head up to 22m.

Guarantee

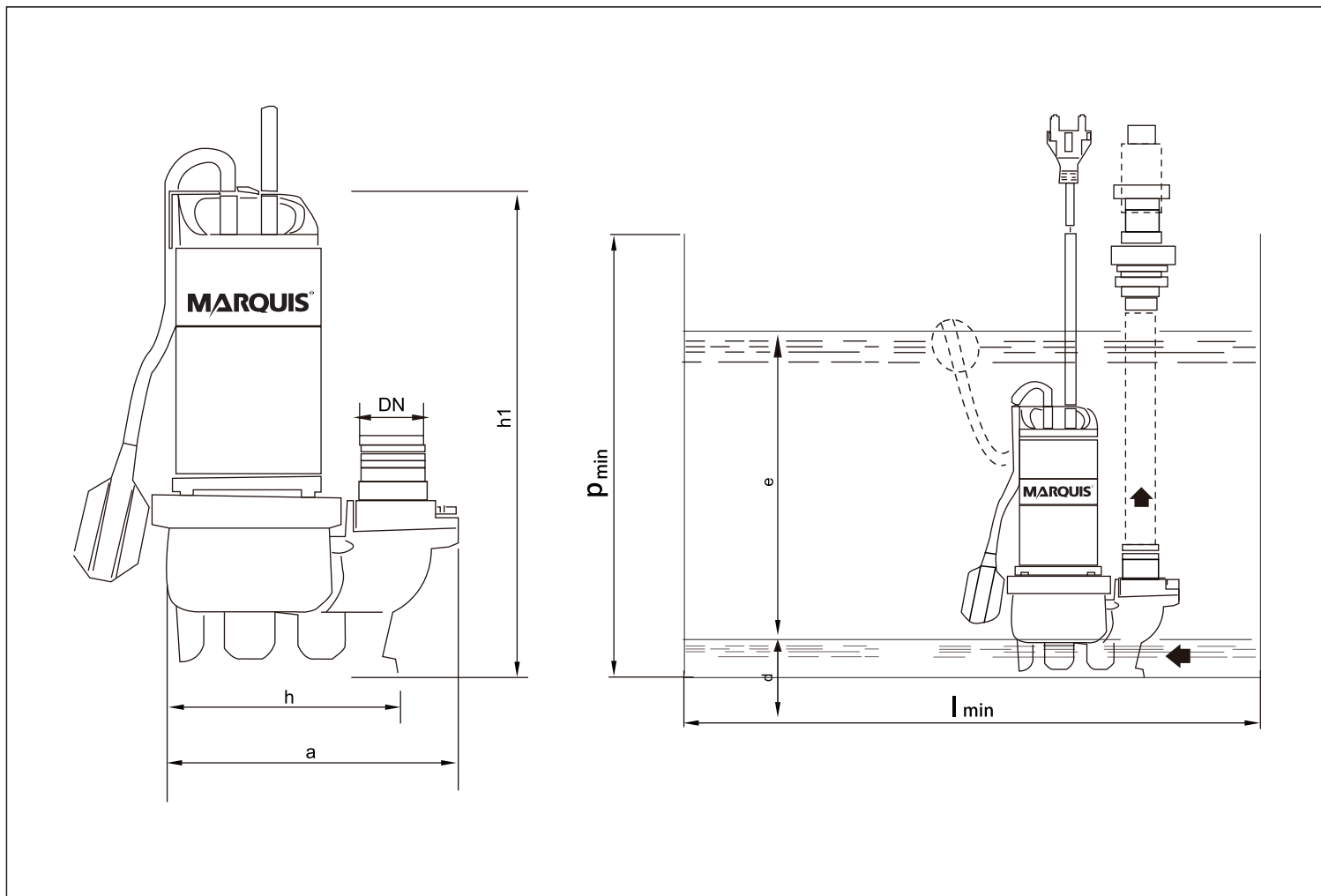
- 1 year subject to terms and conditions

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n=2900 1/min Hs=0 m



Model	Power		Q	m³/h																			
	KW	HP		0	1	2	3	4	5	6	7	8	9	10	12	14	16	18	20				
Single-phase				0	16.6	33.3	50	66.7	83.3	100	116.6	133.4	150	166.6	200	233.1	266.8	299.7	333.2				
V180(F)	0.18	0.2	H m	7.0	6.5	6.0	5.4	4.9	4.2	3.7	3.0	2.4											
V250(F)	0.25	0.35		7.5	7.1	6.9	6.4	6.0	5.6	5.0	4.4	3.8	3.0										
V450(F)	0.45	0.6		8.5	8.2	7.9	7.7	7.3	7.0	6.7	6.2	5.9	5.5	5.0	4.2								
V750(F)	0.75	1		10.0	9.8	9.6	9.3	9.1	8.8	8.5	8.2	7.9	7.7	7.2	6.5	5.7	5.0	4.3					
V1100(F)	1.1	1.5		9.0	8.9	8.8	8.7	8.5	8.3	8.1	7.9	7.6	7.3	7.0	6.2	5.3	4.4	3.4	2.4				
V1500(F)	1.5	2		22.0	21.9	21.5	21.0	20.3	19.7	19.0	18.1	17.0	16.0	15.0	12.2	9.5	5.3						



Model	Inlet/Outlet(*)	Dimensions(mm)						
Single-phase	DN	a	h	h1	d	e	l min	P min
V180(F)	1 1/2"	185	180	360	40	Adjustable	680	410
V250(F)	1 1/2"	185	180	380	40		680	430
V450(F)	2"	255	195	495	40		695	540
V750(F)	2"	255	195	535	40		695	580
V1100(F)	2"	275	225	555	40		725	610
V1500(F)	2"	585	350	245	40		850	300

Model	Piece	GW(kg)	NW(kg)	Volume(m ³)	L(cm)	W(cm)	H(cm)
V180(F)	1	9	8.5	0.012	18.5	18.0	36.5
V250(F)	1	9.5	9	0.013	18.5	18.0	38.5
V450(F)	1	18	17.5	0.025	25.5	19.5	50.0
V750(F)	1	21	20	0.027	25.5	19.5	54.0
V1100(F)	1	22.5	21.5	0.033	27.0	22.0	56.0
V1500(F)	1	27	25.5	0.050	58.5	35.0	24.5



Limits of use

- Liquid temperature :0°C~+60°C.
- Power:110V/60Hz,220V/50Hz,220V/60Hz.
- Max. working pressure: 10 bar.

Application

- Directly connect with the pump to control the pump automatically.
- Be used in the water supply and water pressurization system to protect the equipment from dry running.

Feature

- Control the pump automatically(on/off).
- Protect the pump from dry running or jam.
- Starting pressure:1.5bar/1.5-3.0bar.
- **Operation Procedure:**
 - 1.Pump automatically starts running after the power connection.
 2. Tap turned on:pump keeps on running.
 3. Tap turned off:pump turns into pressure keep mode after running 8±2s.
 4. Slowly turn on the tap,the pressure drops to starting point,the pump restarts.

• P series operation procedure(water supply stop)

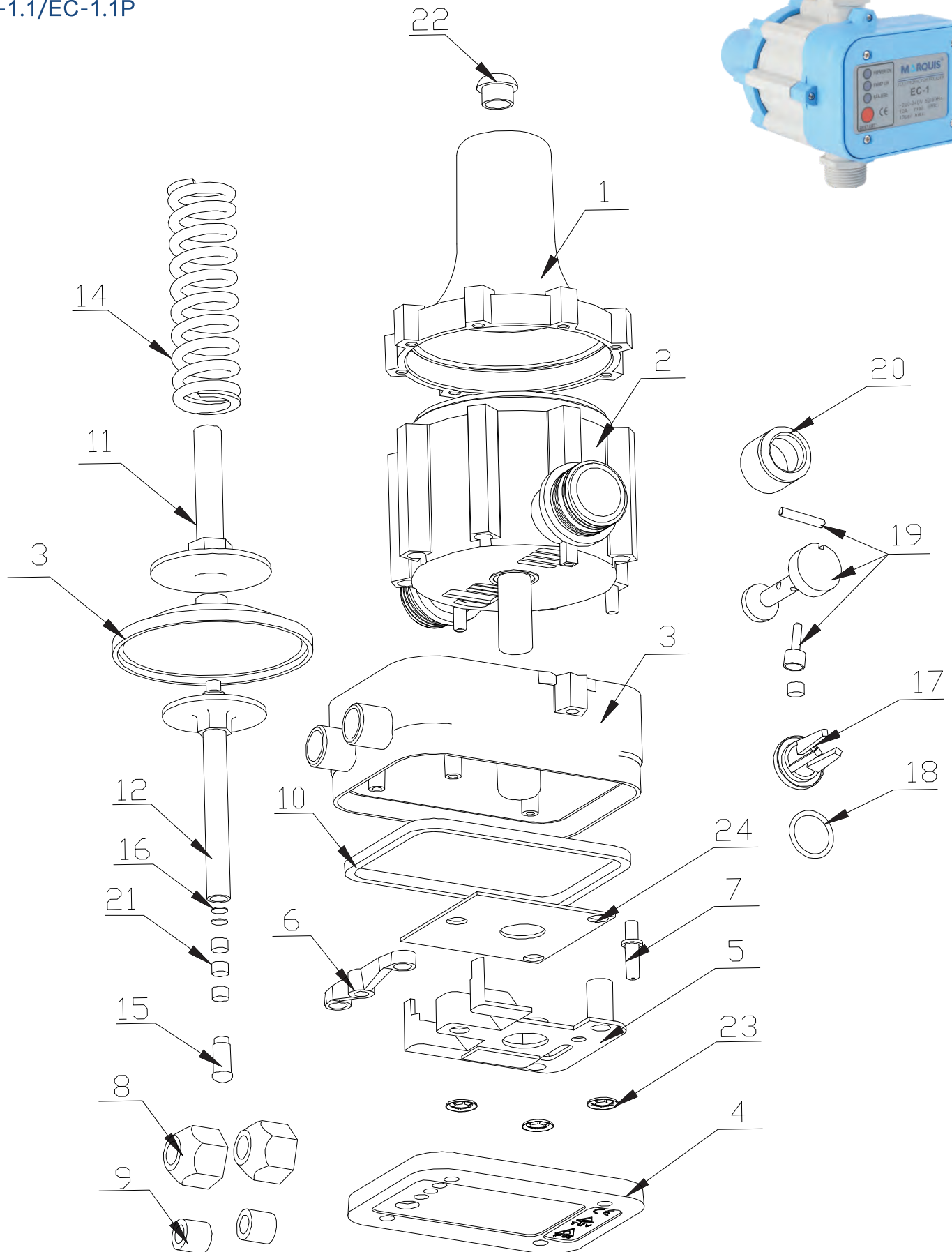
- 1.Pump stops after running 8s.
 - 2.Pause for 2s(checking if any water in the pipe).
 - 3.Pump restarts and running for 8min. (during this period,water comes back,and controller back to work).
 - 4.Or the pump stops for 1 hour.
 - 5.Then the pump restarts and running for 8min (operation procedure as above).
 - 6.Then the pump stops for 1 hour.
 - 7.Then the pump restarts and running for 8min (operation procedure as above).
 - 8.Pump stops to turn into dry running protection mode,this procedure runs automatically every 6 hours.
- EC-2.1 with adjustable bolt,starting pressure adjustment range is 1.5-3.0bar,suitable for using distance is 15-30 meters.

Guarantee

- 1 year subject to terms and conditions.

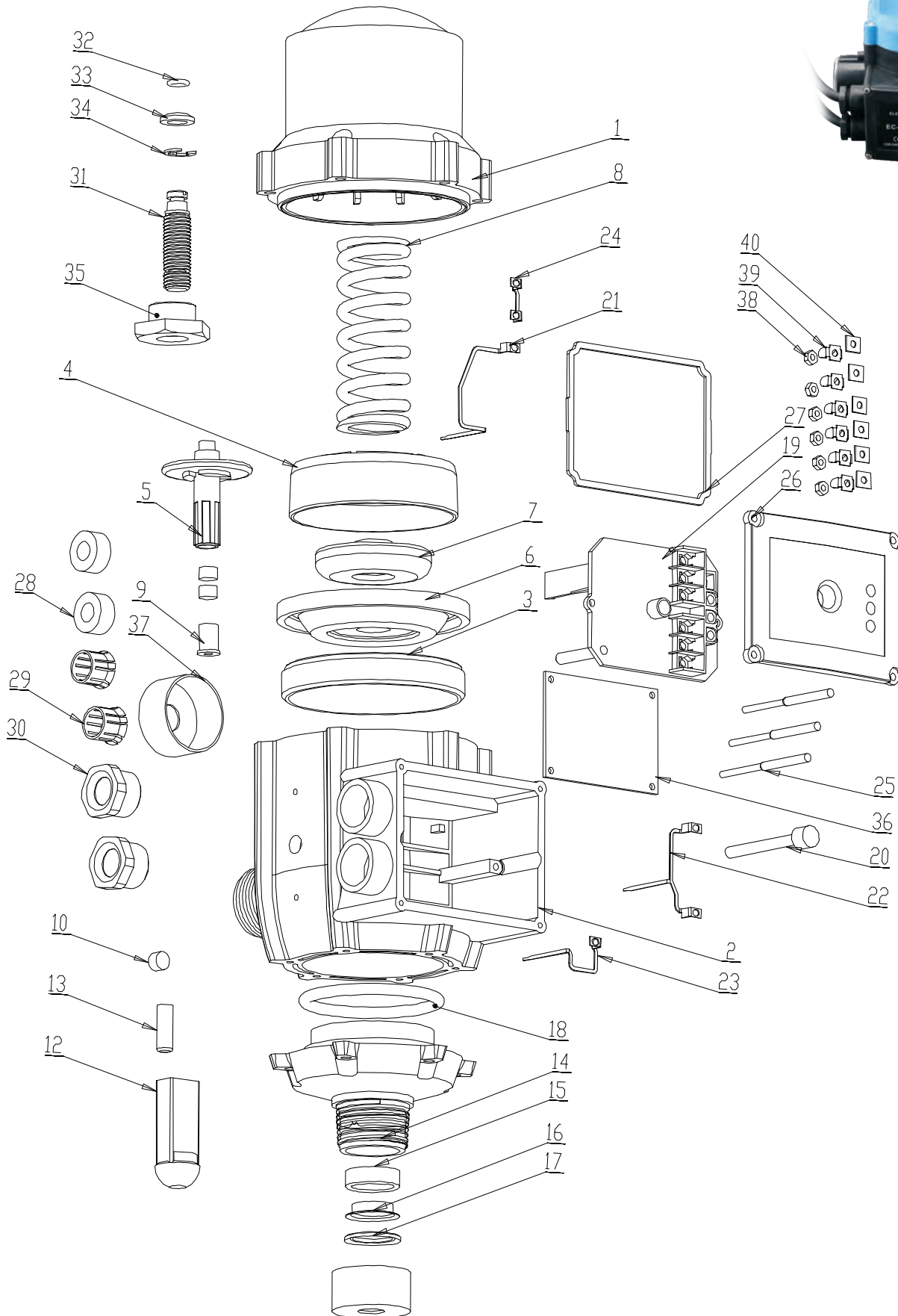
EXPLODED DIAGRAM

EC-1/EC-1P
EC-1.1/EC-1.1P



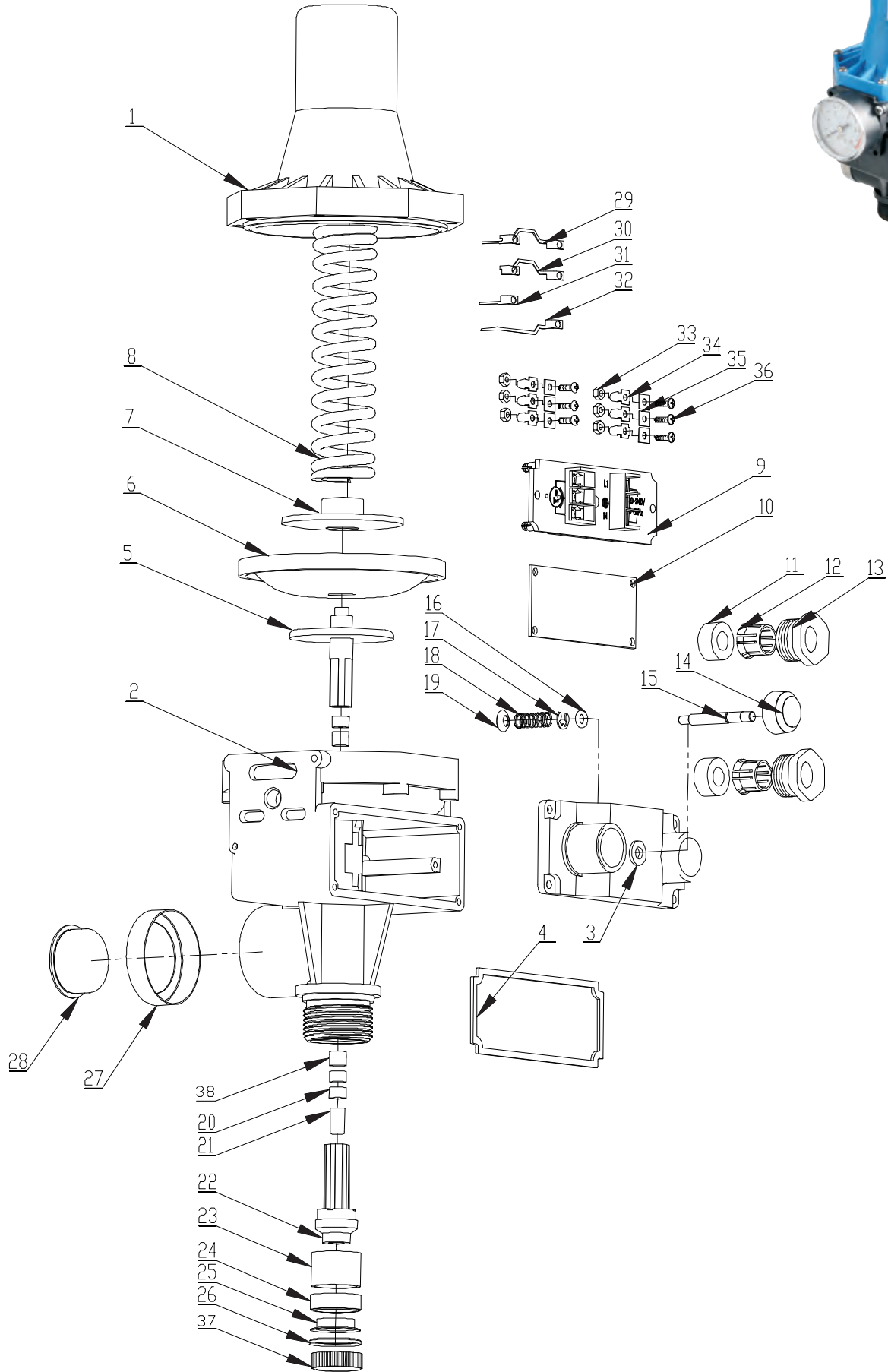
EXPLODED DIAGRAM

EC-2/EC-2P
EC-2. 1/EC-2. 1P



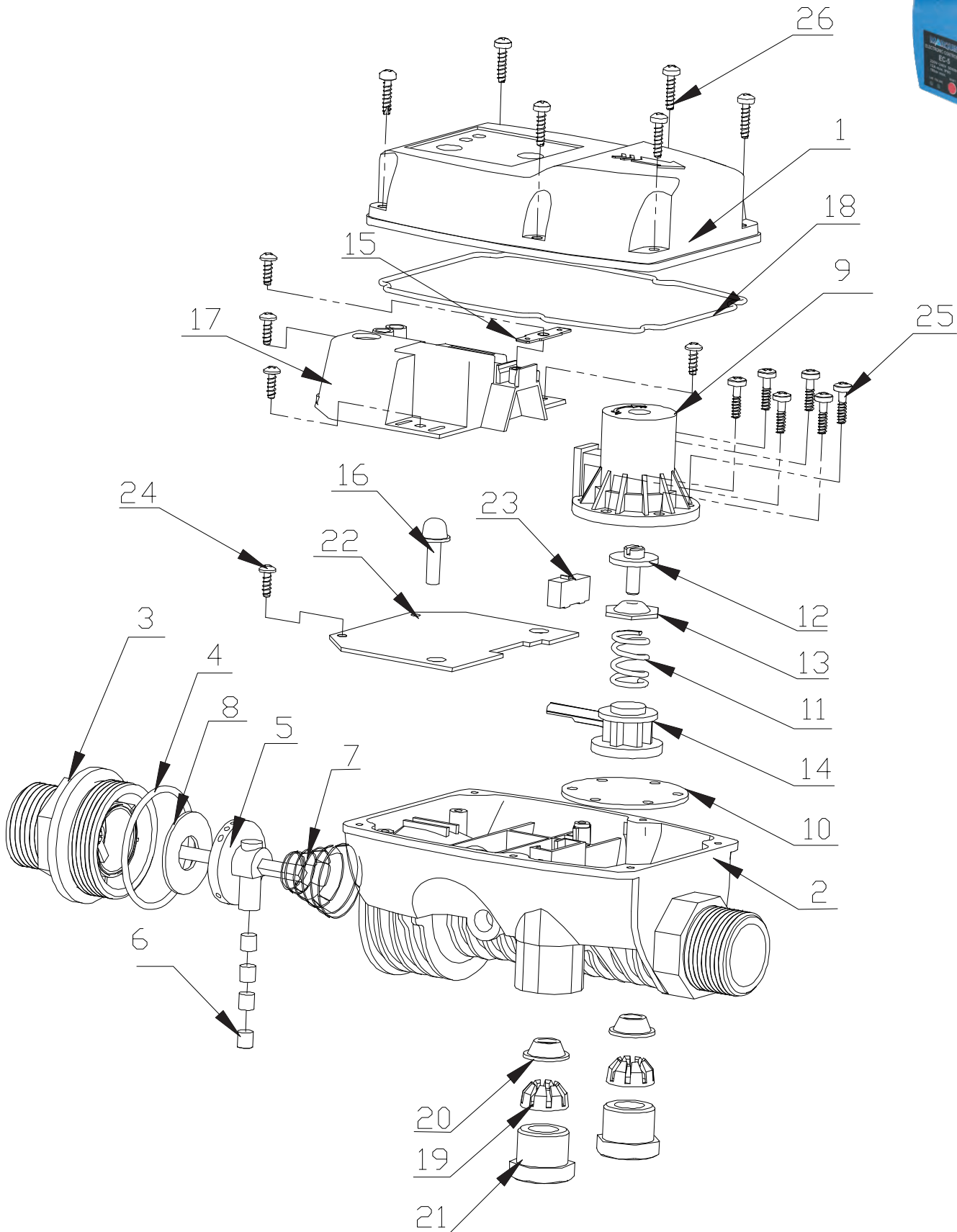
EXPLODED DIAGRAM

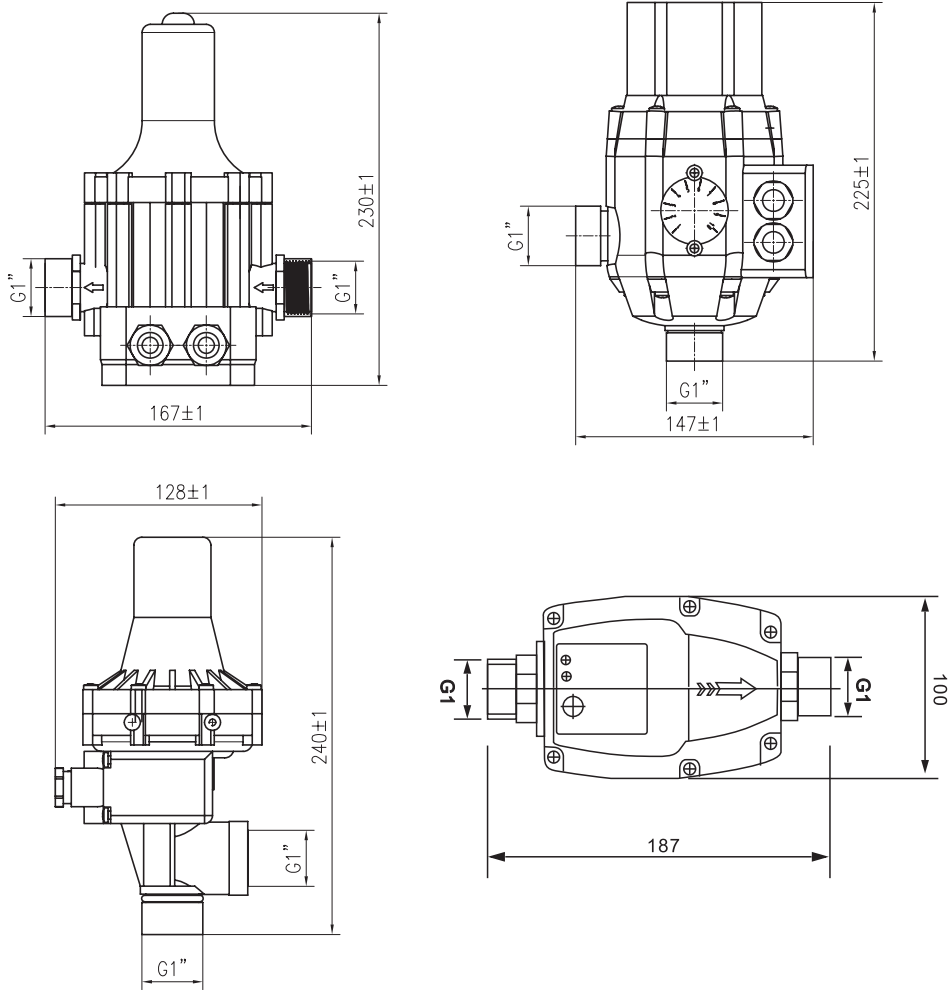
EC-3/EC-3P
EC-3. 1/EC-3. 1P



EXPLODED DIAGRAM

EC-5





Model	Voltage(V)	Frequency(Hz)	Current(A)	Power(W)	Max.Working Pressure(bar)	Starting up Pressure(bar)	Max working temperature(°C)	Connection thread	Protection rating
EC-1/EC-1P EC-1.1/EC-1.1P	220-240 110-120	50/60	10	1100	10	1.2/1.5/2.2	60	Inlet/Outlet male thread R1"	IP65
EC-2/EC-2P EC-2.1/EC-2.1P EC-2.2/EC-2.2P	220-240 110-120	50/60	10	1100/1500	10	1.2/1.5/2.2	60	Inlet/Outlet male thread R1"	IP65
EC-3/EC-3P EC-3.1/EC-3.1P	220-240 110-120	50/60	10	1100/1500	10	1.5/2.2	60	Inlet male thread G1"/Outlet female thread G1"	IP54
EC-5	110-230	50/60	12	1100	10	1.0-3.5	55	Inlet/Outlet male thread R1"	IP65

Model	Piece	GW(kg)	NW(kg)	Volume(m ³)	L(cm)	W(cm)	H(cm)
EC-1/EC-1P EC-1.1/EC-1.1P	1	1.07	0.95	0.007	23	17	17.8
EC-2/EC-2P EC-2.1/EC-2.1P EC-2.2/EC-2.2P	1	1.3	1.2	0.005	23	15	14
EC-3/EC-3P EC-3.1/EC-3.1P	1	1.04	0.93	0.005	25	14	13.3
EC-5	1	0.96	0.85	0.002	19.7	10.8	10.3

110-120V/220-240V,50/60Hz,Max.pressure 10 bar.
starting pressure 1.5-3.5 bar



1

Material:reinforced fresh nylon

- a. high strength to ensure the safety using under high water pressure
- b. using food grade material to ensure no harm to health
- c. aging resistant to ensure long using-life

Water housing

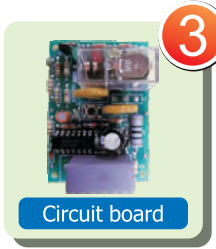


2

Material:natural rubber

- a. corrosion and aging resistance
- b. high elasticity to ensure long using life under frequent water pressure change

Sealing membrane



3

Material:industrial level

- a. to guarantee reliable operation in any environment
- b. excellent manufacturing to ensure accurate control and long using-life

Circuit board



4

Material:reinforced engineering plastic

- a. fire resistance to ensure safety using
- b. high strength to prevent the inside circuit board from any injury
- c. aging resistant to ensure long using-life

Circuit board casing/panel

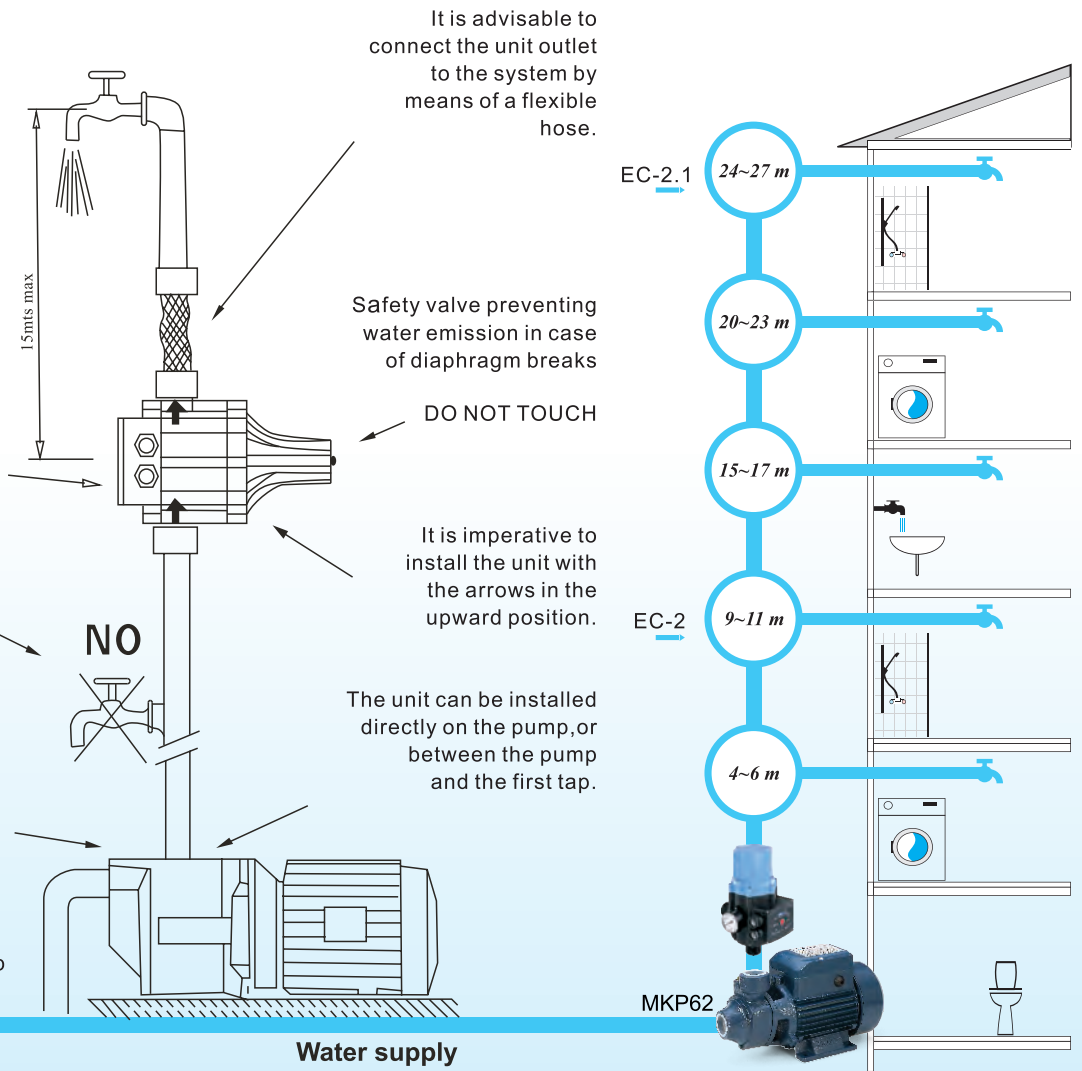
The unit is equipped with a check valve to prevent the pipeline from losing pressure.

No taps can be installed between the pump and the unit.

PUMP'S PRESSURE

The unit is pre-set by the manufacturer at a restarting pressure of 1.5 bar for EC-1 and 2.2 bar for EC-1.1.

The pressure produced by the pump must be normally 0.8 bar higher than the pre-set pressure. Before starting the unit check suction and ensure that the pump is primed.



Water supply

MARQUIS[®]

