
Surface Pumps
MARO

QB

Peripheral Pump



PERFORMANCE RANGE

- Flow rate up to **60 l/min** (3.6 m³/h)
- Head up to **65 m**

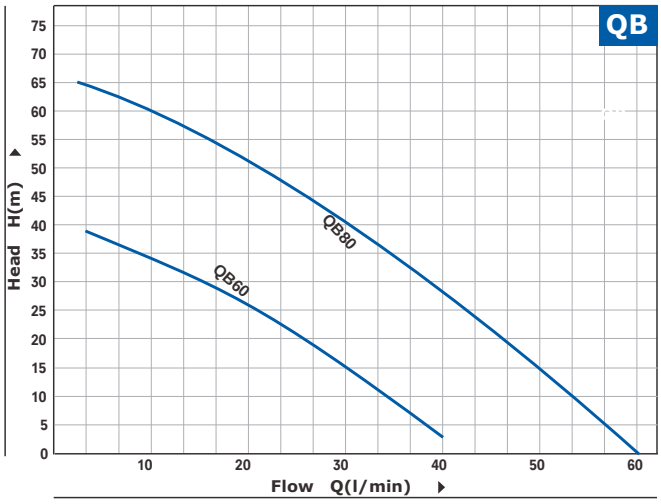
APPLICATION LIMITS

- Manometric suction lift up to **8 m**
- Liquid temperature between **0°C** and **+80°C**
- Ambient temperature up to **+40°C**
- Max. working pressure: **6 bar**
- Voltage fluctuation: **±10%**

INSTALLATION AND USE

- Suitable for pure water without abrasive particles and liquids that are not chemically aggressive to pump materials.
- Due to their reliability and the fact that they are easy to use and economical, they are very suitable for household use, especially in combination with small pressure tanks to distribute water and irrigate gardens and orchards.
- The pump should be installed in a closed environment, or avoid the influence of bad weather.

CHARACTERISTIC CURVES (50 Hz n= 2900 rpm)



OPTIONS AVAILABLE ON REQUEST

- Special mechanical seal, bearing, shaft
- Other voltages or **60 Hz** frequency
- Insulation class **F**

PERFORMANCE DATA

(50 Hz n= 2900 rpm)

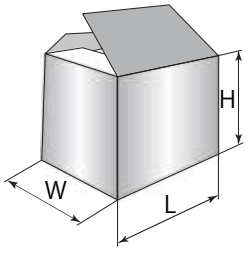
Model	Power(P_2)		Max. Flow	Max. Head	Inlet/Outlet	Head Range	Max. Suction
Single-phase	kW	HP	l/min	m	inch	m	m
QB60	0.37	0.5	40	38	1×1	1~38	8
QB80	0.75	1	60	65	1×1	3~65	8

QB

Peripheral Pump

COMPONENT		CONSTRUCTION CHARACTERISTICS				
1	**PUMP BODY**	Cast iron with an Epoxy Electro Coating treatment				
2	**MOTOR BRACKET**	Aluminium with SS304 insert, reduces the risk of impeller seizure				
3	**IMPELLER**	Brass with peripheral radial vanes				
4	**MOTOR SHAFT**	Steel 45# welding Stainless steel AISI 304				
5	**MECHANICAL SEAL**	**Pump**	**Seal**	**Materials**		
		Model	**Model**	stationary ring	Rotational ring	Elastomer
		QB60-80	301-12	Ceramic	Graphite	NBR
6	**BEARINGS**	**Pump**	**Model**			
		QB60	6201-2RZ/6201-2RZ			
		QB80	6202-2RZ/6202-2RZ			
7	**CAPACITOR**	**Pump**	**Capacitance**			
		Single-phase	220V			
		QB60	10μF-450VL			
		QB80	20μF-450VL			
8	**ELECTRIC MOTOR**	Sigle-phase 220V-50HZ with thermal ovreload protector incorporated into the winding				
		-Insulation: class B				
		-Protection: IP X4				
		-Continuous service S1				

DIMENSIONS AND WEIGHT



Model	L×W×H	G.W
Single-phase	**mm**	**kg**
QB60	285×155×190	6.1
QB80	340×215×240	10.2

CW

Self-priming Pump



PERFORMANCE RANGE

- Flow rate up to **50 l/min** (3 m³/h)
- Head up to **44 m**

INSTALLATION AND USE

- Suitable for use with clean water that does not contain abrasive particles and with liquids that are not chemically aggressive towards the materials from which the pump is made.
- Because of their compactness, reliability and the fact that they are easy to use, they are suitable for use in domestic applications such as the distribution of water in combination with small pressure tanks, for the irrigation of gardens and orchards, for drawing water from tanks and for all those other situations where air or gas may be present in the water to be pumped.
- The pump comes complete with a flap-check valve . The pump should be installed in an enclosed environment or sheltered from inclement weather.

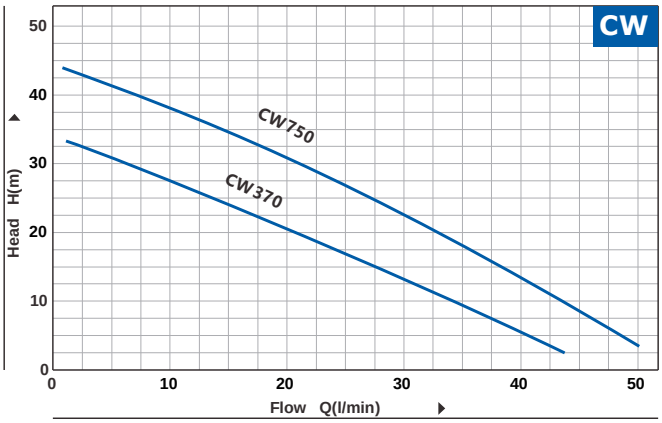
OPTIONS AVAILABLE ON REQUEST

- Special mechanical seal, bearing, shaft
- Other voltages or **60 Hz** frequency
- Insulation class **F**

APPLICATION LIMITS

- Manometric suction lift up to **8 m**
- Liquid temperature between **0°C** and **+80°C**
- Ambient temperature up to **+40°C**
- Max. working pressure: **6bar**
- Voltage fluctuation: **±10%**

CHARACTERISTIC CURVES (50 Hz n= 2900 rpm)



PERFORMANCE DATA

(50 Hz n= 2900 rpm)

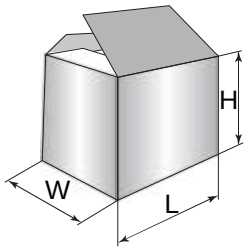
Model	Power(P_2)		Max. Flow	Max. Head	Inlet/Outlet	Head Range	Max. Suction
Single-phase	kW	HP	l/min	m	inch	m	m
CW370	0.37	0.7	43	33	1×1	1~33	8
CW750	0.75	1	50	44	1×1	1~44	8

CW

Self-priming Pump

COMPONENT		CONSTRUCTION CHARACTERISTICS				
1	**PUMP BODY**	Cast iron with an Epoxy Electro Coating treatment				
2	**MOTOR BRACKET**	Aluminium with SS304 insert, reduces the risk of impeller seizure				
3	**IMPELLER**	Brass with peripheral radial vanes				
4	**MOTOR SHAFT**	Steel 45# welding Stainless steel AISI 304				
5	**MECHANICAL SEAL**	**Pump**	**Seal**		**Materials**	
		Model	**Model**	stationary ring	Rotational ring	Elastomer
		CW370 - 750	301-12	Ceramic	Graphite	NBR
6	**BEARINGS**	**Pump**	**Model**			
		CW370	6201-2RZ/6201-2RZ			
		CW750	6202-2RZ/6202-2RZ			
7	**CAPACITOR**	**Pump**	**Capacitance**			
		Single-phase	220V			
		CW370	10μF-450VL			
		CW750	15μF-450VL			
8	**ELECTRIC MOTOR**	Sigle-phase 220V-50HZ with thermal ovreload protector incorporated into the winding				
		-Insulation: class B				
		-Protection: IP X4				
		-Continuous service S1				

DIMENSIONS AND WEIGHT



Model	L×W×H	G.W
Single-phase	**mm**	**kg**
CW370	300×230×300	8.1
CW750	305×240×310	10.1

MRZ

Self-priming Pump



PERFORMANCE RANGE

- Flow rate up to **108 l/min** (6.48 m³/h)
- Head up to **55 m**

INSTALLATION AND USE

- Suitable for use with clean water that does not contain abrasive particles and with liquids that are not chemically aggressive towards the materials from which the pump is made.
- Because of their compactness, reliability and the fact that they are easy to use, they are suitable for use in domestic applications such as the distribution of water in combination with small pressure tanks, for the irrigation of gardens and orchards, for drawing water from tanks and for all those other situations where air or gas may be present in the water to be pumped.
- The pump comes complete with a flap-check valve . The pump should be installed in an enclosed environment or sheltered from inclement weather.

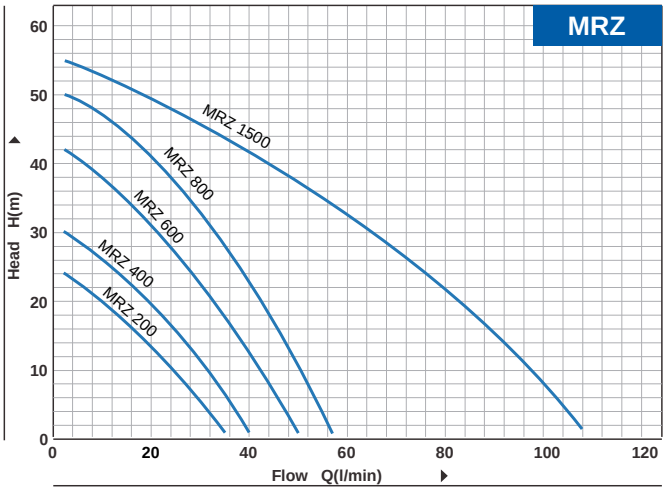
OPTIONS AVAILABLE ON REQUEST

- Special mechanical seal, bearing, shaft
- Other voltages or **60 Hz** frequency
- Insulation class **F**

APPLICATION LIMITS

- Manometric suction lift up to **8 m**
- Liquid temperature between **0°C** and **+80°C**
- Ambient temperature up to **+40°C**
- Max. working pressure: **6bar**
- Voltage fluctuation: **±10%**

CHARACTERISTIC CURVES (50 Hz n= 2900 rpm)



PERFORMANCE DATA

(50 Hz n= 2900 rpm)

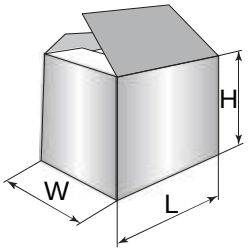
Model	Power(P_2)		Max. Flow	Max. Head	Inlet/Outlet	Head Range	Max. Suction
Single-phase	kW	HP	l/min	m	inch	m	m
MRZ 200	0.2	0.28	35	24	1×1	1~24	8
MRZ 400	0.4	0.55	40	30	1×1	1~30	8
MRZ 600	0.6	0.8	50	42	1×1	1~42	8
MRZ 800	0.8	1.1	57	50	1×1	1~50	8
MRZ 1500	1.5	2	108	55	1×1	1~55	8

MRZ

Self-priming Pump

COMPONENT		CONSTRUCTION CHARACTERISTICS				
1	**PUMP BODY**	Cast iron with an Epoxy Electro Coating treatment				
2	**MOTOR BRACKET**	Aluminium with SS304 insert, reduces the risk of impeller seizure				
3	**IMPELLER**	Brass with peripheral radial vanes				
4	**MOTOR SHAFT**	Steel 45# welding Stainless steel AISI 304				
5	**MECHANICAL SEAL**	**Pump**	**Seal**	**Materials**		
		Model	**Model**	stationary ring	Rotational ring	Elastomer
		MRZ 200-400-600 800-1500	301-12	Ceramic	Graphite	NBR
6	**BEARINGS**	**Pump**	**Model**			
		MRZ 200-400-600	6201-2RZ/6201-2RZ			
		MRZ 200-400-600	6202-2RZ/6202-2RZ			
7	**CAPACITOR**	**Pump**	**Capacitance**			
		Single-phase	220V			
		MRZ 200	6μF-450VL			
		MRZ 400	10μF-450VL			
		MRZ 600	12μF-450VL			
		MRZ 800	18μF-450VL			
		MRZ 1500	25μF-450VL			
8	**ELECTRIC MOTOR**	Sigle-phase 220V-50HZ with thermal ovreload protector incorporated into the winding				
		-Insulation: class B				
		-Protection: IP X4				
		-Continuous service S1				

DIMENSIONS AND WEIGHT



Model	L×W×H	G.W
Single-phase	**mm**	**kg**
MRZ 200	300×230×300	8.5
MRZ 400	300×230×300	8.9
MRZ 600	310×240×320	12
MRZ 800	310×240×320	13
MRZ 1500	370×280×360	27

MCW

Self-priming Pump



PERFORMANCE RANGE

- Flow rate up to **35 l/min** (2.1 m³/h)
- Head up to **35 m**

INSTALLATION AND USE

- Suitable for use with clean water that does not contain abrasive particles and with liquids that are not chemically aggressive towards the materials from which the pump is made.
- Because of their compactness, reliability and the fact that they are easy to use, they are suitable for use in domestic applications such as the distribution of water in combination with small pressure tanks, for the irrigation of gardens and orchards, for drawing water from tanks and for all those other situations where air or gas may be present in the water to be pumped.
- The pump comes complete with a flap-check valve . The pump should be installed in an enclosed environment or sheltered from inclement weather.

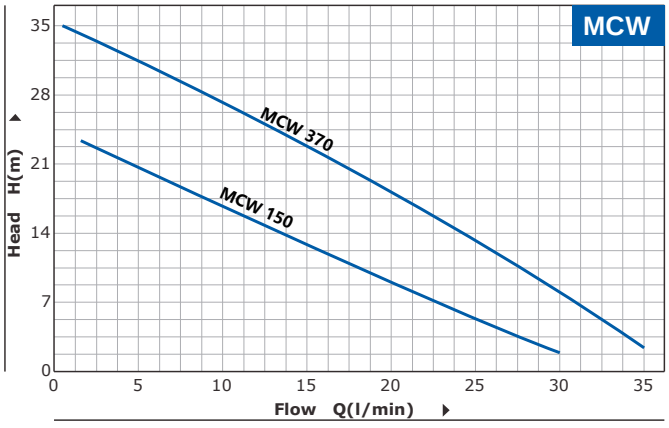
OPTIONS AVAILABLE ON REQUEST

- Special mechanical seal, bearing, shaft
- Other voltages or **60 Hz** frequency
- Insulation class **F**

APPLICATION LIMITS

- Manometric suction lift up to **8 m**
- Liquid temperature between **0°C** and **+80°C**
- Ambient temperature up to **+40°C**
- Max. working pressure: **6bar**
- Voltage fluctuation: **±10%**

CHARACTERISTIC CURVES (50 Hz n= 2900 rpm)



PERFORMANCE DATA

(50 Hz n= 2900 rpm)

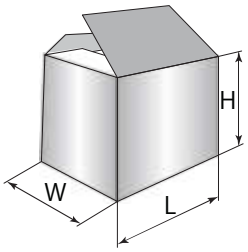
Model	Power(P_2)		Max. Flow	Max. Head	Inlet/Outlet	Head Range	Max. Suction
Single-phase	kW	HP	l/min	m	inch	m	m
MCW 150	0.15	0.2	30	23	1×1	1~23	8
MCW 370	0.37	0.5	35	35	1×1	1~35	8

MCW

Self-priming Pump

COMPONENT		CONSTRUCTION CHARACTERISTICS				
1	**PUMP BODY**	Cast iron with an Epoxy Electro Coating treatment				
2	**MOTOR BRACKET**	Aluminium with SS304 insert, reduces the risk of impeller seizure				
3	**IMPELLER**	Brass with peripheral radial vanes				
4	**MOTOR SHAFT**	Steel 45# welding Stainless steel AISI 304				
5	**MECHANICAL SEAL**	**Pump**	**Seal**		**Materials**	
		Model	**Model**	stationary ring	Rotational ring	Elastomer
		MCW 150 - 370	301-12	Ceramic	Graphite	NBR
6	**BEARINGS**	**Pump**	**Model**			
		MCW 150 - 370	6201-2RZ/6201-2RZ			
7	**CAPACITOR**	**Pump**	**Capacitance**			
		Single-phase	220V			
		MCW 150	8μF-450VL			
		MCW 370	10μF-450VL			
8	**ELECTRIC MOTOR**	Sigle-phase 220V-50HZ with thermal ovreload protector incorporated into the winding				
		-Insulation: class B				
		-Protection: IP X4				
		-Continuous service S1				

DIMENSIONS AND WEIGHT



Model	L×W×H	G.W
Single-phase	**mm**	**kg**
MCW 150	305×220×310	7.9
MCW 750	305×220×310	8.1

CPM

Centrifugal Pump



PERFORMANCE RANGE

- Flow rate up to **140 l/min** (8.4 m³/h)
- Head up to **54 m**

INSTALLATION AND USE

- They are recommended for pumping clean water without abrasive particles and liquids that are chemically non-aggressive to the materials from which the pump is made.
- Due to their reliability and ease of use, they are widely used in the civil, agricultural and industrial sectors, for water supply, for air conditioning or cooling systems, for irrigation, etc.
- The installation is to be carried out in closed places or in any case protected from bad weather.

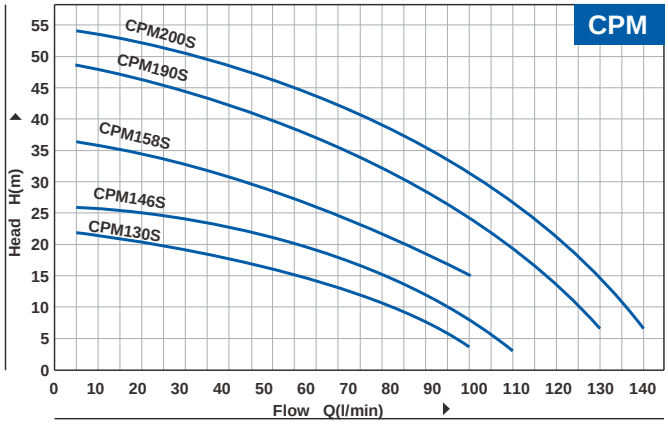
OPTIONS AVAILABLE ON REQUEST

- Special mechanical seal, bearing, shaft
- Other voltages or **60 Hz** frequency
- Insulation class **F**

APPLICATION LIMITS

- Manometric suction lift up to **8 m**
- Liquid temperature between **0°C** and **+80°C**
- Ambient temperature up to **+40°C**
- Max. working pressure:
  - **6 bar** for CPM130S, CPM146S, CPM158S
  - **8 bar** for CPM190S, CPM200S
- Voltage fluctuation **±10%**

CHARACTERISTIC CURVES (50 Hz n= 2900 rpm)



PERFORMANCE DATA

(50 Hz n= 2900 rpm)

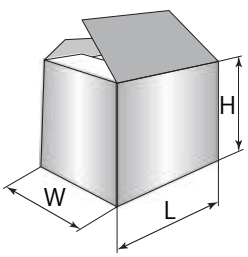
Model	Power(P_2)		Max. Flow	Max. Head	Inlet/Outlet	Head Range	Max. Suction
Single-phase	kW	HP	l/min	m	inch	m	m
CPM130S	0.37	0.5	100	22	1×1	3~20	8
CPM146S	0.55	0.75	110	26	1×1	4~26	8
CPM158S	0.75	1	100	36	1×1	7~36	8
CPM190S	1.1	1.5	130	40	1×1	5~38	8
CPM200S	1.5	2	130	48	1×1	6~46	8

CPM

Centrifugal Pump

COMPONENT		CONSTRUCTION CHARACTERISTICS				
1	**PUMP BODY**	Cast iron with an Epoxy Electro Coating treatment				
2	**MOTOR BRACKET**	Aluminium				
3	**IMPELLER**	Brass				
4	**MOTOR SHAFT**	Steel 45# welding Stainless steel AISI 304				
5	**MECHANICAL SEAL**	**Pump**	**Seal**		**Materials**	
		Model	**Model**	stationary ring	Rotational ring	Elastomer
		CPM130S	301-12	Ceramic	Graphite	NBR
		CPM146S-158S	301-14	Ceramic	Graphite	NBR
		CPM190S-200S	301-16	Ceramic	Graphite	NBR
6	**BEARINGS**	**Pump**	**Model**			
		CPM130S	6201-2RZ/6201-2RZ			
		CPM146S-158S	6202-2RZ/6202-2RZ			
		CPM190S-200S	6204-2RZ/6303-2RZ			
7	**CAPACITOR**	**Pump**	**Capacitance**			
		Single-phase	220V			
		CPM130S	12μF-450VL			
		CPM146S	18μF-450VL			
		CPM158S	25μF-450VL			
		CPM190S	40μF-450VL			
		CPM200S	45μF-450VL			
8	**ELECTRIC MOTOR**	Sigle-phase 220V-50HZ with thermal ovreload protector incorporated into the winding				
		-Insulation: class B				
		-Protection: IP X4				
		-Continuous service S1				

DIMENSIONS AND WEIGHT



Model	L×W×H	G.W
Single-phase	mm	kg
CPM130S	290×180×230	8
CPM146S	340×210×270	11.6
CPM158S	340×210×270	13.2
CPM190S	385×245×295	22.5
CPM200S	385×245×295	23.4

DK

Centrifugal Pump



PERFORMANCE RANGE

- Flow rate up to **750 l/min** (45 m³/h)
- Head up to **24 m**

INSTALLATION AND USE

- Suitable for use with clean water that does not contain abrasive particles and with liquids that are not chemically aggressive towards the materials from which the pump is made.
- Because of their compactness, reliability and the fact that they are easy to use, they are suitable for use in domestic applications such as the distribution of water in combination with small pressure tanks, for the irrigation of gardens and orchards, for drawing water from tanks and for all those other situations where air or gas may be present in the water to be pumped.
- The pump comes complete with a flap-check valve . The pump should be installed in an enclosed environment or sheltered from inclement weather.

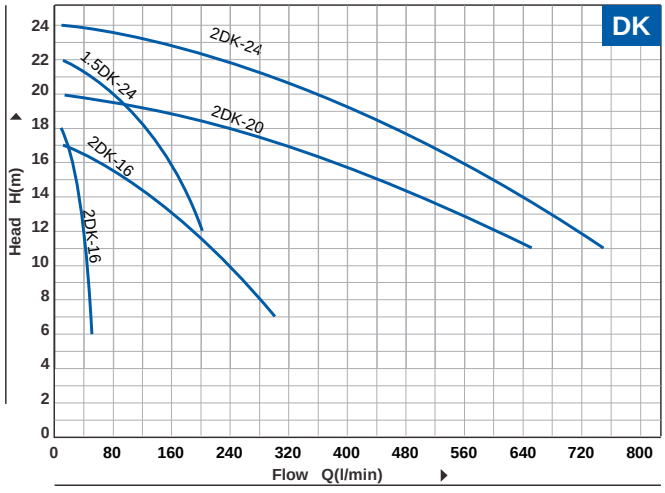
OPTIONS AVAILABLE ON REQUEST

- Special mechanical seal, bearing, shaft
- Other voltages or **60 Hz** frequency
- Insulation class **F**

APPLICATION LIMITS

- Manometric suction lift up to **8 m**
- Liquid temperature between **0°C** and **+80°C**
- Ambient temperature up to **+40°C**
- Max. working pressure: **6bar**
- Voltage fluctuation: **±10%**

CHARACTERISTIC CURVES (50 Hz n= 2900 rpm)



PERFORMANCE DATA

(50 Hz n= 2900 rpm)

Model	Power(P_2)		Max. Flow	Max. Head	Inlet/Outlet	Head Range	Max. Suction
Single-phase	kW	HP	l/min	m	inch	m	m
1DK-18	0.37	0.5	50	18	1×1	5.5~18	8
1.5DK-24	0.75	1	200	22	1½×1½	8~22	8
2DK-16	0.90	1.2	300	16	2×2	8~16	8
2DK-20	1.1	1.5	650	20	2×2	7~20	8
2DK-24	1.5	2	750	24	2×2	6.5~24	8

DK

Centrifugal Pump

COMPONENT		CONSTRUCTION CHARACTERISTICS
1	**PUMP BODY**	Cast iron with an Epoxy Electro Coating treatment
2	**MOTOR BRACKET**	Aluminium
3	**IMPELLER**	Brass
4	**MOTOR SHAFT**	Steel 45# welding Stainless steel AISI 304

5 MECHANICAL SEAL

Pump	Seal/Shaft	Materials		
Model	Model	stationary ring	Rotational ring	Elastomer
1DK-18	301-12	Ceramic	Graphite	NBR
1.5DK-24	301-12	Ceramic	Graphite	NBR
2DK-16-20-24	301-14	Ceramic	Graphite	NBR

6 BEARINGS

Pump	Model
1DK-18	6201-2RZ/6201-2RZ
1.5DK-24	6202-2RZ/6202-2RZ
2DK-16-20-24	6204-2RZ/6204-2RZ

7 CAPACITOR

Pump	Capacitance
Single-phase	220V
1DK-18	10μF-450VL
1.5DK-24	10μF-450VL
2DK-16	12μF-450VL
2DK-20	30μF-450VL
2DK-24	50μF-450VL

8 ELECTRIC MOTOR

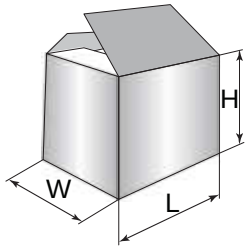
Sigle-phase 220V-50HZ with thermal ovreload protector incorporated into the winding

-Insulation: class B

-Protection: IP X4

-Continuous service S1

DIMENSIONS AND WEIGHT



Model	L×W×H	G.W
Single-phase	mm	kg
1DK-18	285×180×200	7.3
1.5DK-24	340×200×220	10.7
2DK-16	425×255×250	16
2DK-20	310×240×330	17
2DK-24	450×250×280	26

TJSM

Self-priming JET Pump



PERFORMANCE RANGE

- Flow rate up to **90 l/min** (5.4 m³/h)
- Head up to **46 m**

INSTALLATION AND USE

- Suitable for use with clean water and liquids that are not chemically aggressive towards the materials from which the pump is made.
- The self-priming JET-M pumps are designed to pump water even in cases where air is present. As a result of their reliability and the fact that they are easy to use, they are recommended for use in domestic applications such as the distribution of water in combination with small or medium sized pressure sets, and for the irrigation of gardens and allotments, etc.

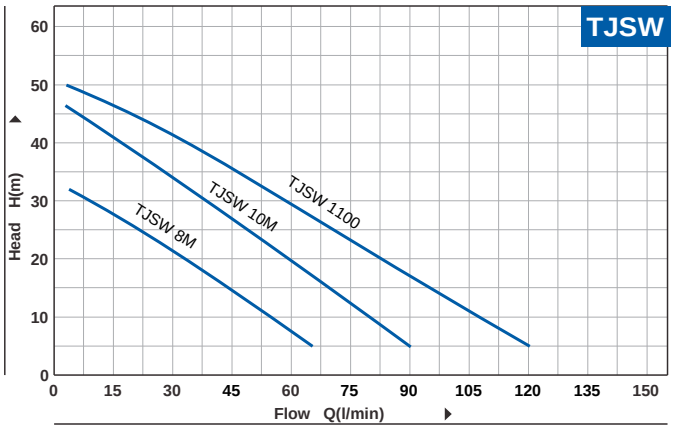
OPTIONS AVAILABLE ON REQUEST

- Special mechanical seal, bearing, shaft
- Other voltages or **60 Hz** frequency
- Insulation class **F**

APPLICATION LIMITS

- Manometric suction lift up to **8 m**
- Liquid temperature between **0°C** and **80°C**
- Ambient temperature up to **+40°C**
- Max. working pressure: **8bar**
- Voltage fluctuation: **±10%**

CHARACTERISTIC CURVES (50 Hz n= 2900 rpm)



PERFORMANCE DATA

(50 Hz n= 2900 rpm)

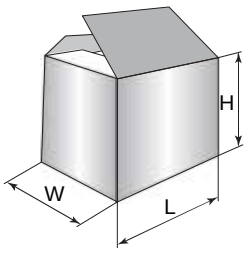
Model	Power(P_2)		Max. Flow	Max. Head	Inlet/Outlet	Head Range	Max. Suction
Single-phase	kW	HP	l/min	m	inch	m	m
TJSW 8M	0.37	0.5	65	32	1×1	3~32	8
TJSW 10M	0.75	1	90	46	1×1	3~46	8
TJSW 1100	1.1	1.5	120	50	1×1	3~50	8

TJSW

Self-priming JET Pump

COMPONENT		CONSTRUCTION CHARACTERISTICS				
1	**PUMP BODY**	Stainless steel AISI 304				
2	**MOTOR BRACKET**	Aluminium				
3	**IMPELLER**	Brass				
4	**MOTOR SHAFT**	Steel 45# welding Stainless steel AISI 304				
5	**MECHANICAL SEAL**	**Pump**	**Seal**	**Materials**		
		Model	**Model**	stationary ring	Rotational ring	Elastomer
		TJSW 8M	301-12	Ceramic	Graphite	NBR
		TJSW 10M	104-14	Ceramic	Graphite	NBR
		TJSW 1100	104-14	Ceramic	Graphite	NBR
6	**BEARINGS**	**Pump**	**Model**			
		TJSW 8M - 1100	6202-2RZ/6202-2RZ			
7	**CAPACITOR**	**Pump**	**Capacitance**			
		Single-phase	220V			
		TJSW 8M	10μF-450VL			
		TJSW 10M	16μF-450VL			
		TJSW 1100	23μF-450VL			
8	**ELECTRIC MOTOR**	Sigle-phase 220V-50HZ with thermal ovreload protector incorporated into the winding				
		-Insulation: class B				
		-Protection: IP X4				
		-Continuous service S1				

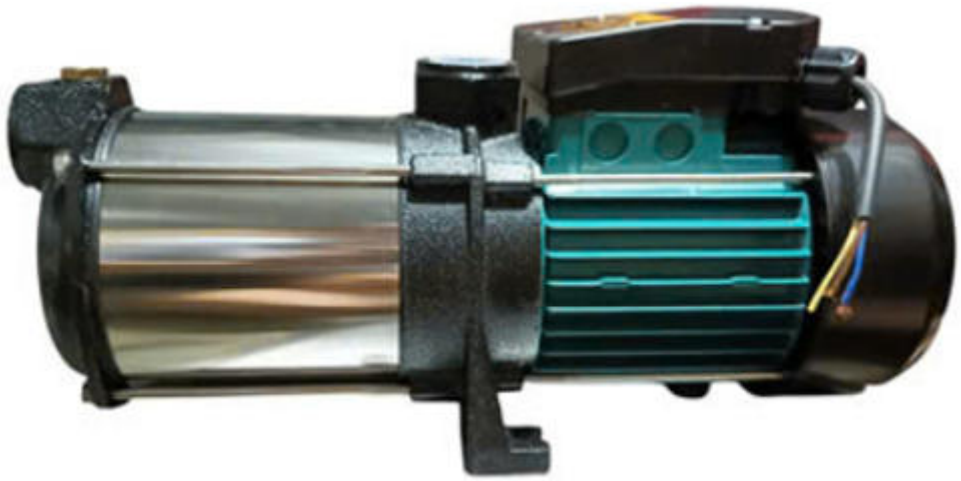
DIMENSIONS AND WEIGHT



Model	L×W×H	G.W
Single-phase	**mm**	**kg**
TJSW 8M	450×200×230	14.2
TJSW 10M	470×200×230	14
TJSW 1100	490×210×230	18

HS

Horizontal Multistage Centrifugal Pump



PERFORMANCE RANGE

- Flow rate up to **120 l/min** (7.2 m³/h)
- Head up to **50 m**

INSTALLATION AND USE

- Suitable for use with clean water and with liquids that are not chemically aggressive towards the materials from which the pump is made.
- As a result of their quietness these pumps are widely used in domestic applications such as the distribution of water in combination with small and medium sized pressure tanks, and for the irrigation of gardens and orchards, etc.
- Installation needs to be undertaken in well ventilated closed areas or anyway protected from bad weather.

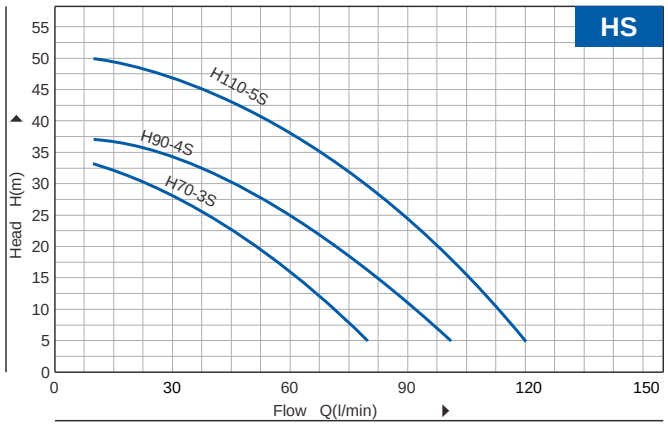
OPTIONS AVAILABLE ON REQUEST

- Special mechanical seal, bearing, shaft
- Other voltages or **60 Hz** frequency
- Insulation class **F**

APPLICATION LIMITS

- Manometric suction lift up to **8 m**
- Liquid temperature between **0°C** and **+80°C**
- Ambient temperature up to **+40°C**
- Max. working pressure:
  - **6 bar** for H70-3S
  - **8 bar** for H90-4S, H110-5S
- Voltage fluctuation: **±10%**

CHARACTERISTIC CURVES (50 Hz n= 2900 rpm)



PERFORMANCE DATA

(50 Hz n= 2900 rpm)

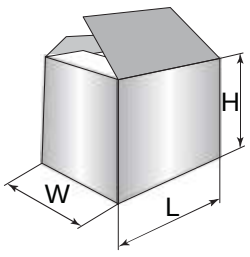
Model	Power(P_2)		Max. Flow	Max. Head	Inlet/Outlet	Head Range	Max. Suction
Single-phase	kW	HP	l/min	m	inch	m	m
H70-3S	0.6	0.8	80	33	1×1	11~33	8
H90-4S	0.75	1	100	37	1×1	9~37	8
H110-5S	0.9	1.25	120	50	1×1	5~50	8

HS

Horizontal Multistage Centrifugal Pump

COMPONENT		CONSTRUCTION CHARACTERISTICS				
1	PUMP BODY	Cast iron with an Epoxy Electro Coating treatment and Stainless steel AISI 304				
2	MOTOR BRACKET	Aluminium				
3	IMPELLER	PPO				
4	MOTOR SHAFT	Steel 45# welding Stainless steel AISI 304				
5	MECHANICAL SEAL	**Pump**	**Seal**	**Materials**		
		Model	**Model**	stationary ring	Rotational ring	Elastomer
		H70-3S	301-12	Ceramic	Graphite	NBR
		H90-4S	301-12	Ceramic	Graphite	NBR
		H110-5S	301-14	Ceramic	Graphite	NBR
6	BEARINGS	**Pump**	**Model**			
		H70-3S	6202-2RZ/6302-2RZ			
		H90-4S	6202-2RZ/6302-2RZ			
		H110-5S	6202-2RZ/6302-2RZ			
7	CAPACITOR	**Pump**	**Capacitance**			
		Single-phase	220V			
		H70-3S	10μF-450VL			
		H90-4S	15μF-450VL			
		H110-5S	30μF-450VL			
8	ELECTRIC MOTOR	Sigle-phase 110V-50HZ with thermal ovreload protector incorporated into the winding				
		-Insulation: class B				
		-Protection: IP X4				
		-Continuous service S1				

DIMENSIONS AND WEIGHT



Model	L×W×H	G.W
Single-phase	mm	kg
H70-3S	420×190×210	11.4
H90-4S	440×190×210	13
H110-5S	470×190×210	14