WASSERMANN®

CIRCULATION PUMPS

2024-2025
50Hz

www.wassermann.cn

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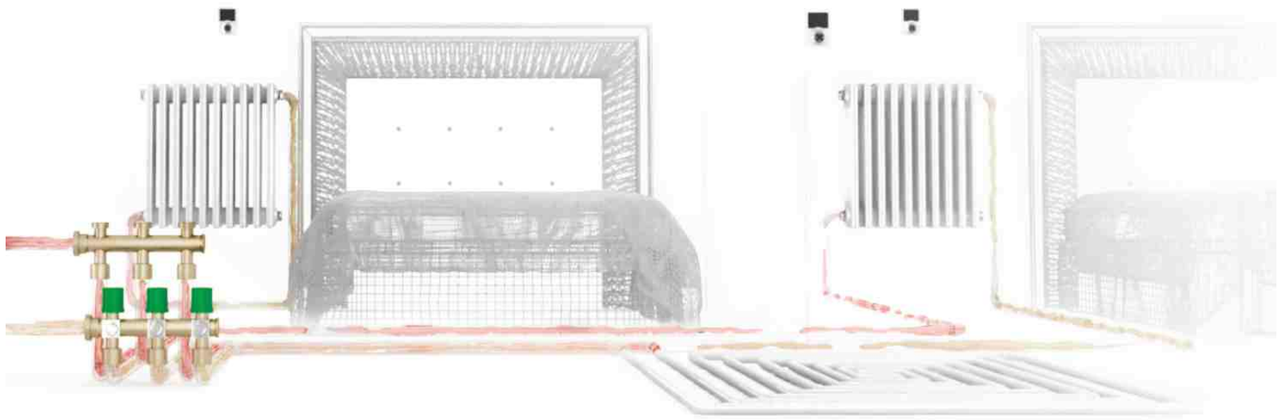


CIRCULATION PUMPS

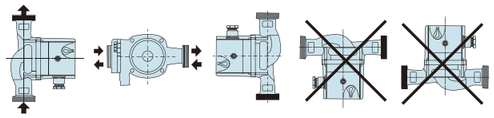
INSTALLATIONS AND USE

. It is a 3-speed circulation pump that can be used in both open and closed systems. The pump is of the wet-rotor type, i.e. pump and motor form an integral unit without a shaft seal and with only two gaskets for sealing. The bearings are lubricated by the pumped liquid.

. The pumps are designed for circulation of liquids in heating and air-conditioning systems. Examples of typical applications are:

One- and two-pipe heating systems
Boiler shunt pumps
Pumps for heating surfaces
Calorifiers
Under floor heating systems
Solar heating systems
Heat pump systems
Geothermal heating systems
Heat recovery systems
Two-pipe air-conditioning systems
Pumps for refrigeration units.

. The pump must be installed with horizontal motor shaft.



PERFORMANCE RANGE

. Flow rate up to 12m^3/h
. Head up to 20m

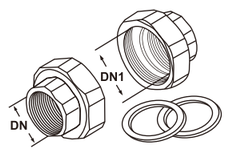
OPERATING CONDITIONS

. Liquid temperature +2°C ~ +110°C
. Ambient temperature 0°C ~ +40°C
. Sound pressure ≤ 45Db(A)
. Max. Working pressure 10bar
. Continuous duty

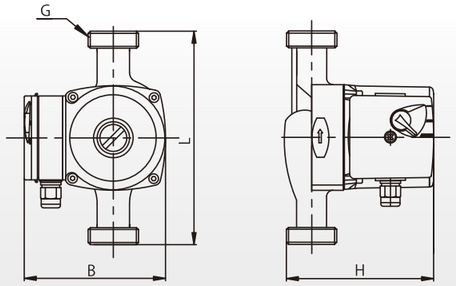
ELECTRIC MOTOR

. Two-pole induction motor, 50Hz
. Standard voltage 1x220V-240V
. Insulation class H
. Protection IP42

UNIONS AND GASKETS



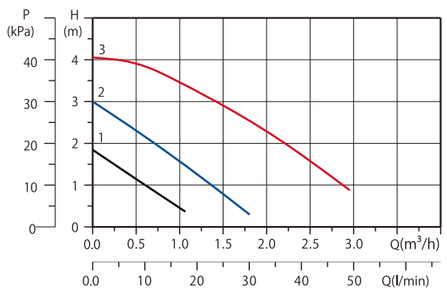
OVERALL DIMENSION



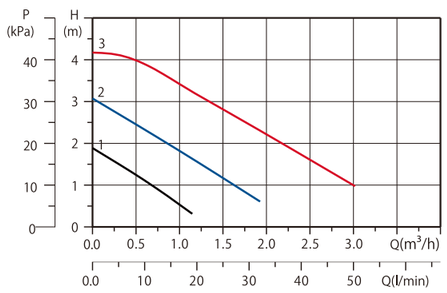
PUMP CURVE

FPSxx-40

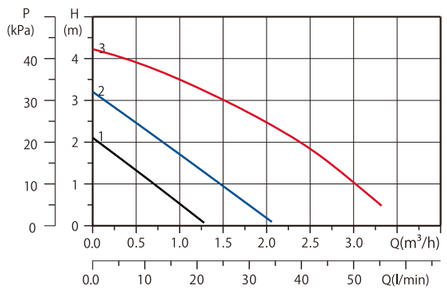
FPS 20-40



FPS 25-40



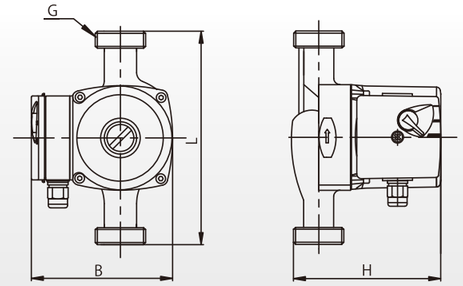
FPS 32-40



ELECTRICAL DATA 1 X 230 V, 50 HZ

Model	Power P1 max (W)	Max.flow (m³/h)	Max. head (m)	Unions		Dimension(mm)			
				DN1	DN	L	H	B	G
FPS20-40	65	2.8	4	G1	G3/4	130	130	130	1"
FPS25-40	65	3.0	4	G1 1/2	G1	130/180	130	130	1½"
FPS32-40	65	3.5	4	G2	G1 1/4	180	130	130	2"

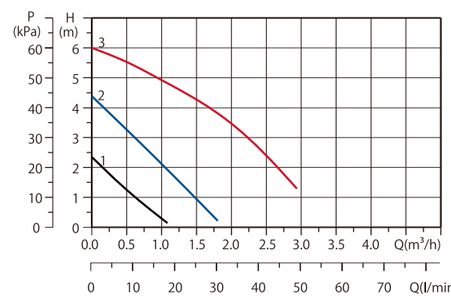
OVERALL DIMENSION



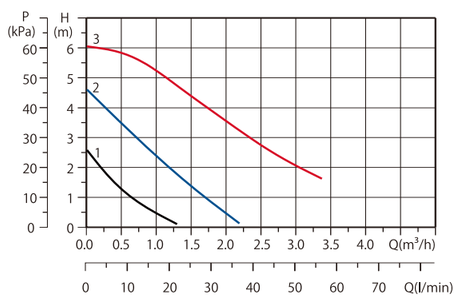
PUMP CURVE

FPSxx-60

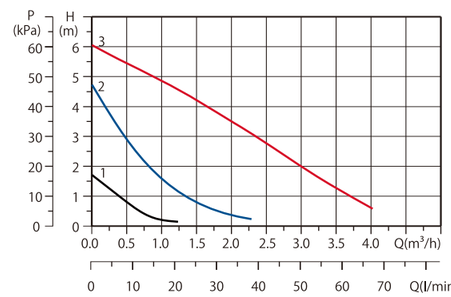
FPS 20-60



FPS 25-60



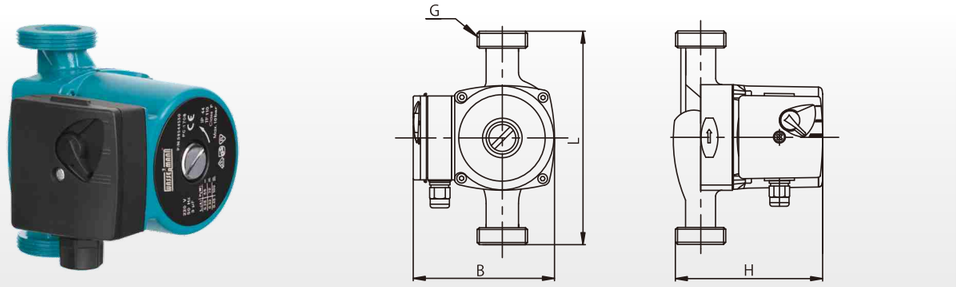
FPS 32-60



ELECTRICAL DATA 1 X 230 V, 50 HZ

Model	Power P1 max (W)	Max.flow (m³/h)	Max. head (m)	Unions		Dimension(mm)			
				DN1	DN	L	H	B	G
FPS20-60	100	2.8	6	G1	G3/4	130	130	130	1"
FPS25-60	100	3.3	6	G1 1/2	G1	130/180	130	130	1½"
FPS32-60	100	4	6	G2	G1 1/4	180	130	130	2"

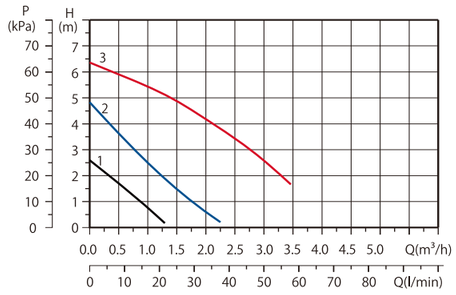
OVERALL DIMENSION



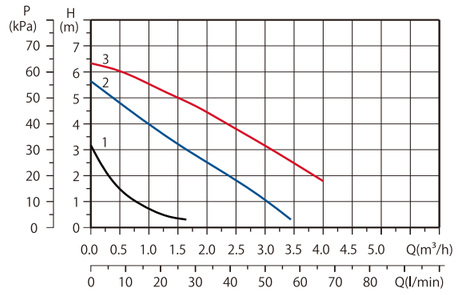
PUMP CURVE

FPSxx-70

FPS 20-70



FPS 25-70



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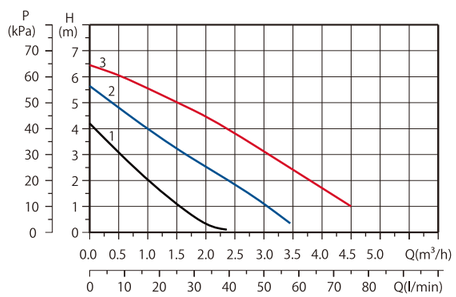
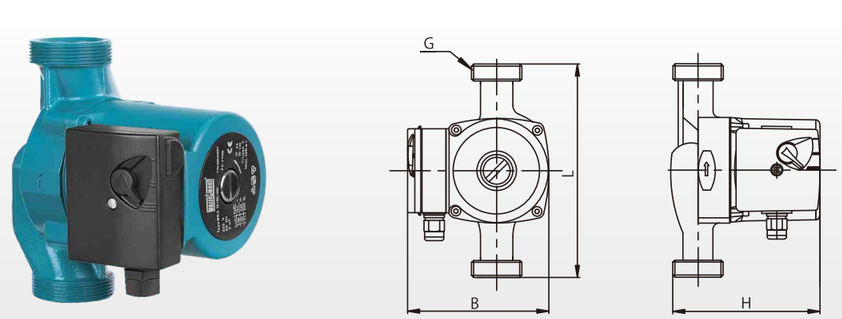


ELECTRICAL DATA 1 X 230 V, 50 HZ

Model	Power P1 max (W)	Max.flow (m³/h)	Max. head (m)	Unions		Dimension(mm)			
				DN1	DN	L	H	B	G
FPS20-70	140	3.5	7	G1	G3/4	130	142	130	1"
FPS25-70	140	4.0	7	G1 1/2	G1	130/180	142	130	1½"
FPS32-70	140	4.5	7	G2	G1 1/4	180	142	130	2"

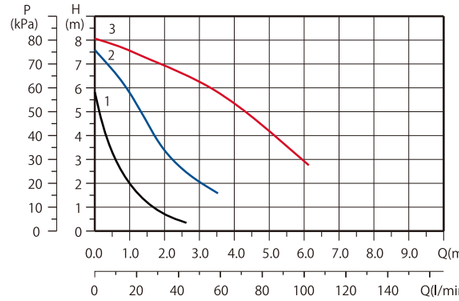
OVERALL DIMENSION



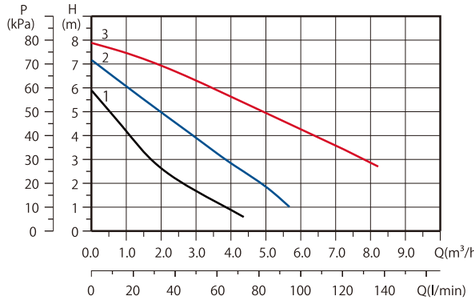
PUMP CURVE

FPSxx-80

FPS 25-80



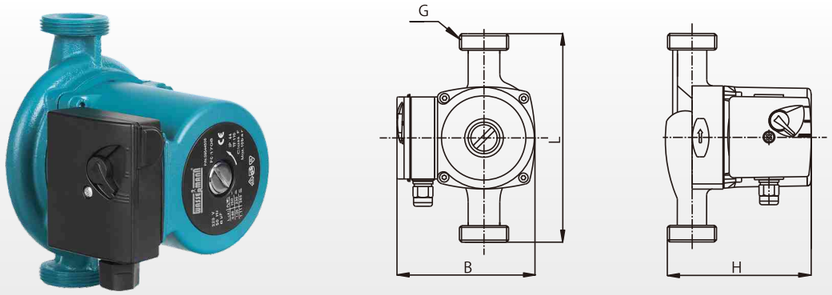
FPS 32-80



ELECTRICAL DATA 1 X 230 V, 50 HZ

Model	Power P1 max (W)	Max.flow (m³/h)	Max. head (m)	Unions		Dimension(mm)			
				DN1	DN	L	H	B	G
FPS25-80	245	6	8	G1 1/2	G1	180	180	150	1½"
FPS32-80	245	8	8	G2	G1 1/4	180	180	150	2"

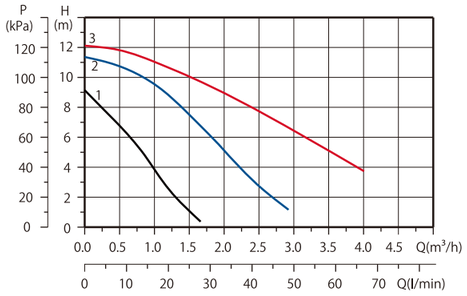
OVERALL DIMENSION



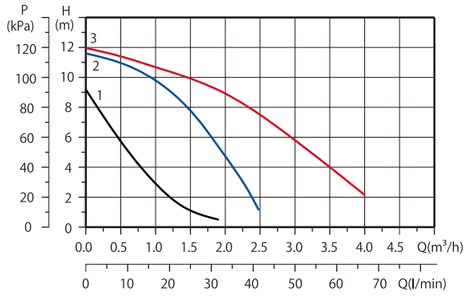
PUMP CURVE

FPSxx-120

FPS 20-120



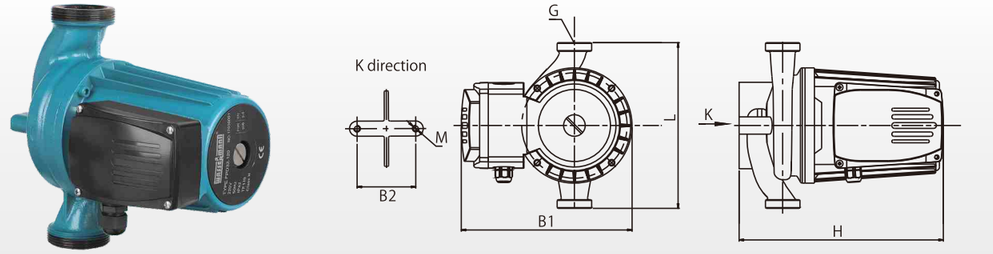
FPS 25-120



ELECTRICAL DATA 1 X 230 V, 50 HZ

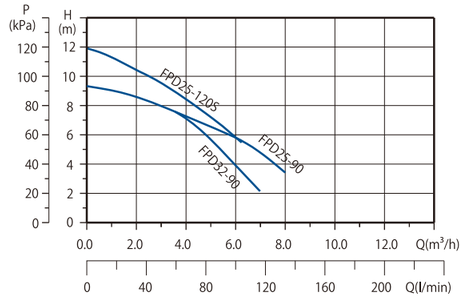
Model	Power P1 max (W)	Max.flow (m³/h)	Max. head (m)	Unions		Dimension(mm)			
				DN1	DN	L	H	B	G
FPS20-120	270	4	12	G1	G3/4	180	151	150	1"
FPS25-120	270	4	12	G1 1/2	G1	180	151	150	1½"

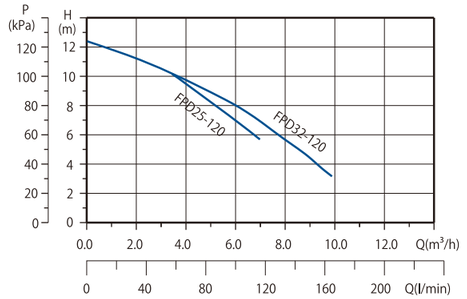
OVERALL DIMENSION

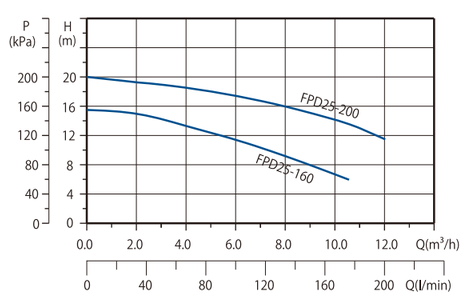


PUMP CURVE

FPDxx-90 , FPDxx-120 , FPDxx-160 , FPDxx-200







ELECTRICAL DATA 1 X 230 V, 50 HZ

Model	Power P1 (W)	Max.flow (m³/h)	Max. head (m)	Rated flow (m³/h)	Rated head (m)	Unions		Dimension(mm)				
						DN1	DN	L	H	B1	B2	M
FPD25-90	300	7	9	4	7	G1 1/2	G1	180/220	209	167	70	M8
FPD32-90	300	8	9	5	6.5	G2	G1 1/4	180/220	214	167	70	M8
FPD25-120S	300	6.2	12	3.5	9	G1 1/2	G1	200	207	164	70	M8
FPD25-120	500	7	12	5	8	G1 1/2	G1	180/220	229	167	70	M8
FPD32-120	500	10	12	6	8	G2	G1 1/4	180/220	234	167	70	M8
FPD25-160	700	10.5	16	5	12.5	G1 1/2	G1	230	286	234	80	M10
FPD25-200	1000	12	20	8	16	G1 1/2	G1	230	286	234	80	M10

CIRCULATION PUMPS

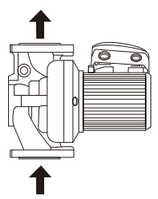
INSTALLATIONS AND USE

. It is a one-speed circulation pump that can be used in both open and closed systems. The pump is of the wet-rotor type, I.e. pump and motor form an integral unit without a shaft seal and with only two gaskets for sealing. The bearings are lubricated by the pumped liquid.

. The pumps are designed for circulation of liquids in heating and air-conditioning systems. Examples of typical applications are:

One- and two-pipe heating systems
Boiler shunt pumps
Pumps for heating surfaces
Calorifiers
Under floor heating systems
Solar heating systems
Heat pump systems
Geothermal heating systems
Heat recovery systems
Two-pipe air-conditioning systems
Pumps for refrigeration units.

. The pump must be installed with horizontal motor shaft.



PERFORMANCE RANGE

. Flow rate up to 40m³/h
. Head up to 20m

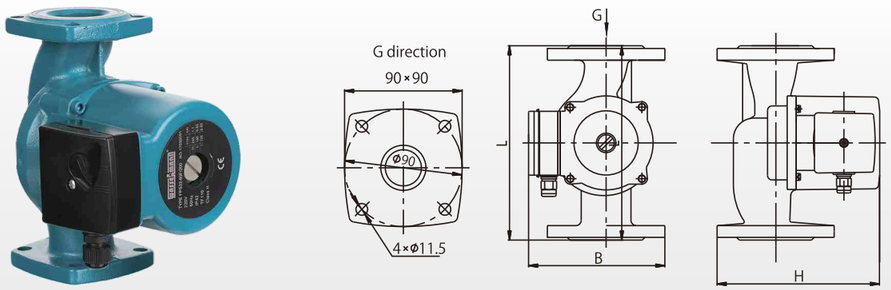
OPERATING CONDITIONS

. Liquid temperature +2℃ ~ +110℃
. Ambient temperature 0℃ ~ +40℃
. Sound pressure ≤ 45Db(A)
. Max. Working pressure 10 bar
. Continuous duty

ELECTRIC MOTOR

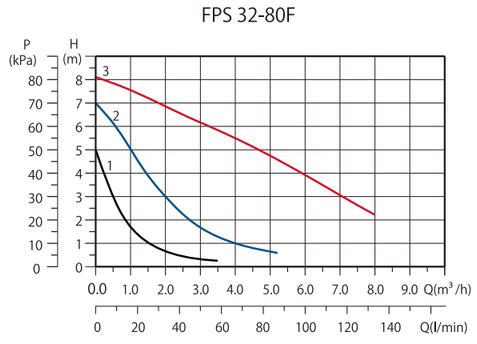
. Two-pole induction motor, 50Hz
. Standard voltage
- 1x220V-240V
- 3x380V-415V
. Insulation class H
. Protection IP42

OVERALL DIMENSION



PUMP CURVE

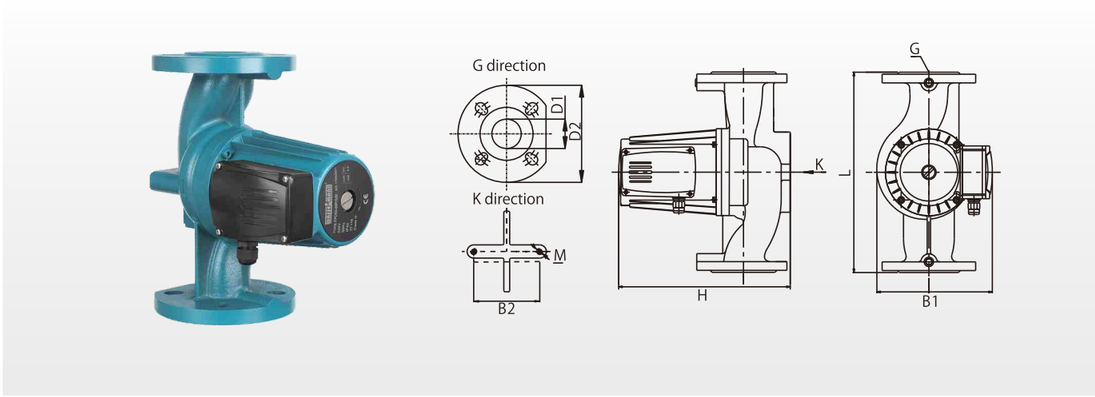
FPS32-80F



ELECTRICAL DATA 1 X 230 V, 50 HZ

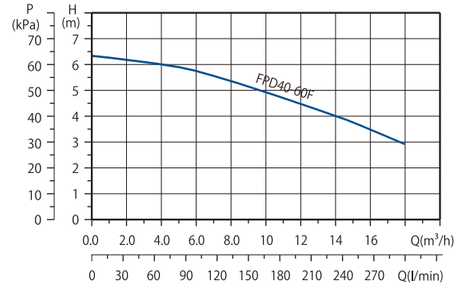
Model	Power P1 max (W)	Max.flow (m³/h)	Max. head (m)	Rated flow (m³/h)	Rated head (m)	Flanges (mm)	Dimension(mm)			
							L	H	B	G
FPS32-80F	245	8	8	4.0	5.5	DN32	200	185	150	DN32

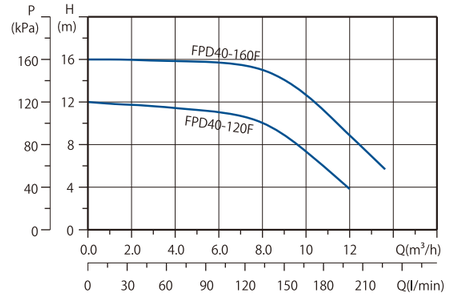
OVERALL DIMENSION



PUMP CURVE

FPD40-xxx F

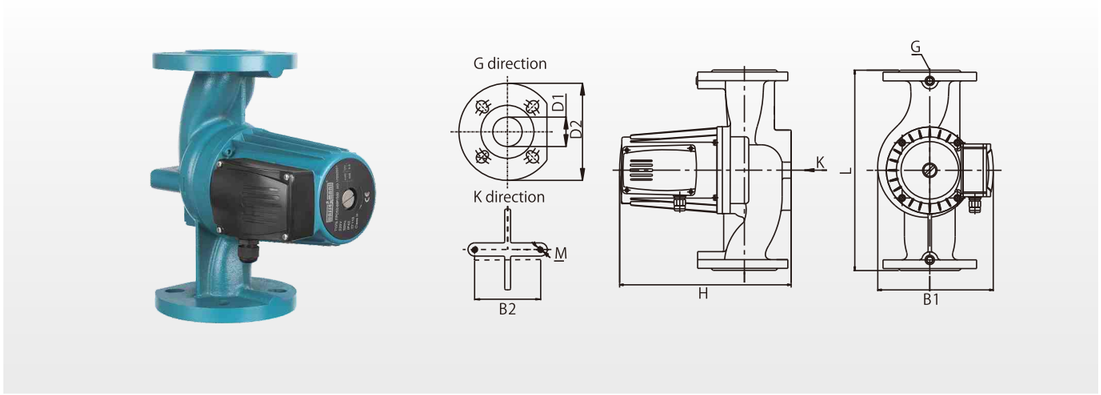




ELECTRICAL DATA 1 X 230 V, 50 HZ

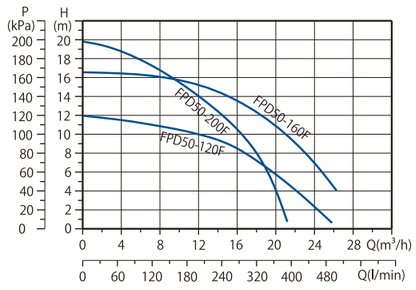
Model	Power P1 (W)	Max.flow (m³/h)	Max. head (m)	Rated flow (m³/h)	Rated head (m)	Flanges (mm)	Dimension(mm)						
							L	H	B1	B2	D1	D2	M
FPD40-60F	500	18	6	12.5	4.5	DN40	250	270	167	90	40	150	M10
FPD40-120F	700	12	12	8	10	DN40	250	297	234	80	40	150	M10
FPD40-160F	1000	13.5	16	8	15	DN40	250	297	234	80	40	150	M10

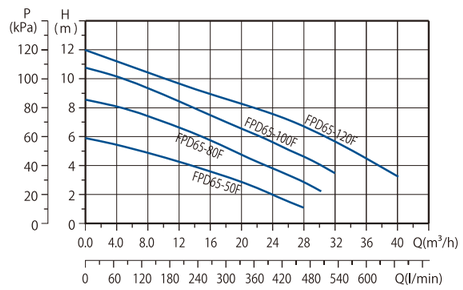
OVERALL DIMENSION



PUMP CURVE

FPD50-xxx F, FPD65-xxx F

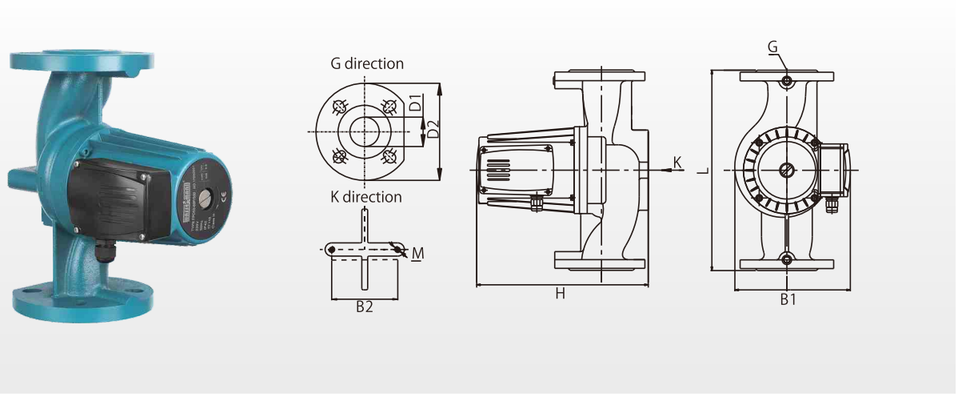




ELECTRICAL DATA 1 X 230 V, 50 HZ

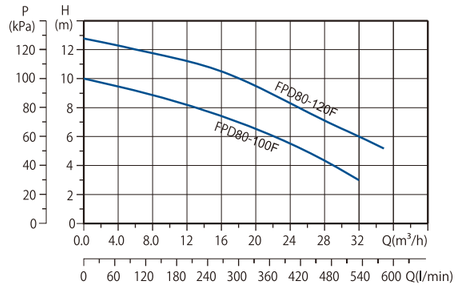
Model	Power P1 (W)	Max.flow (m³/h)	Max. head (m)	Rated flow (m³/h)	Rated head (m)	Flanges (mm)	Dimension(mm)						
							L	H	B1	B2	D1	D2	M
FPD50-120F	1000	26	12	15	9	DN50	280	304	242	90	50	165	M10
FPD50-160F	1300	26	16	15	13	DN50	280	329	242	90	50	165	M10
FPD50-200F	1300	21	20	12	14	DN50	280	329	242	90	50	165	M10
FPD65-50F	700	28	5	18	3	DN65	280	310	242	90	65	180	M10
FPD65-80F	700	30	8	20	5	DN65	280	310	242	90	65	180	M10
FPD65-100F	1000	32	10	20	6.5	DN65	300	310	247	90	65	185	M10
FPD65-120F	1300	40	12	25	7.5	DN65	300	335	247	90	65	185	M10

OVERALL DIMENSION



PUMP CURVE

FPD80-xxx F



ELECTRICAL DATA 1 X 230 V, 50 HZ

Model	Power P1 (W)	Max.flow (m³/h)	Max. head (m)	Rated flow (m³/h)	Rated head (m)	Flanges (mm)	Dimension(mm)						
							L	H	B1	B2	D1	D2	M
FPD80-100F	1000	32	10	22	6	DN80	360	320	247	90	80	200	M10
FPD80-120F	1300	35	12	28	7	DN80	360	345	247	90	80	200	M10

CIRCULATION PUMPS

INSTALLATIONS AND USE

. It is a 3-speed circulation pump that can be used in both open and closed systems. The pump is of the wet-rotor type, i.e. pump and motor form an integral unit without a shaft seal and with only two gaskets for sealing. The bearings are lubricated by the pumped liquid.

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Two-pipe air-conditioning systems
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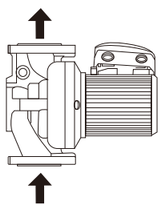
. The pump must be installed with horizontal motor shaft.



PERFORMANCE RANGE

. Flow rate up to 49m³/h
. Head up to 20m

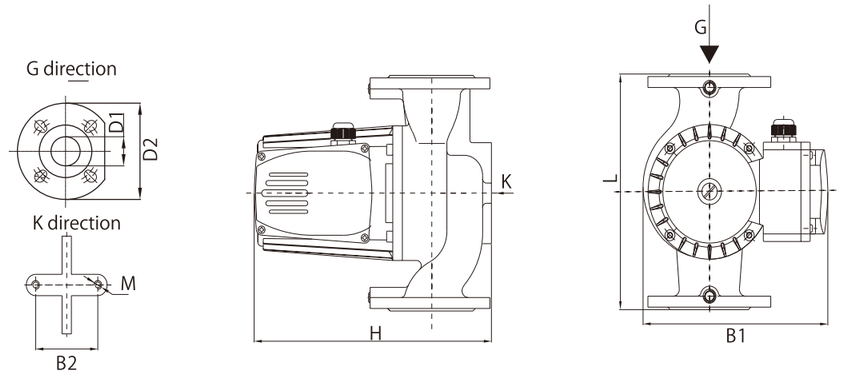
OPERATING CONDITIONS

. Liquid temperature +2℃ ~ +110℃
. Ambient temperature 0℃ ~ +40℃
. Sound pressure ≤ 45Db(A)
. Max. Working pressure 10 bar
. Continuous duty

ELECTRIC MOTOR

. Two-pole induction motor, 50Hz
. Standard voltage
- 3x380V-415V
. Insulation class H
. Protection IP42

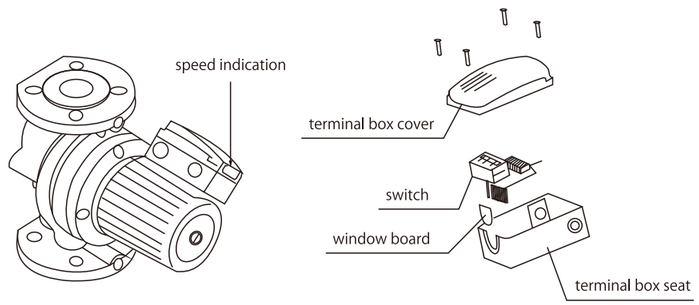
OVERALL DIMENSION



Model	Dimension(mm)						
	L	H	B1	B2	D1	D2	M
FPS40-120F	250	297	234	80	40	150	M10
FPS40-160F	250	297	234	80	40	150	M10
FPS50-120F	280	304	242	90	50	165	M10
FPS50-160F	280	329	242	90	50	165	M10
FPS50-200F	280	329	242	90	50	165	M10
FPS65-50F	280	310	242	90	65	180	M10
FPS65-80F	280	310	242	90	66	180	M10
FPS65-100F	300	310	247	90	65	185	M10
FPS65-120F	300	335	247	90	65	185	M10
FPS80-100F	360	320	247	90	80	200	M10
FPS80-120F	360	345	247	90	80	200	M10

SPEED SWITCH

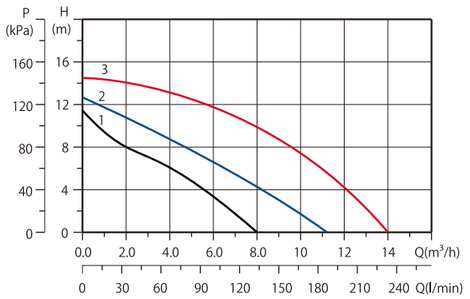
The pump offers three speeds for adjustment of pump performance to the system. Change to a lower speed enables reduction in energy consumption and less noise in the system.



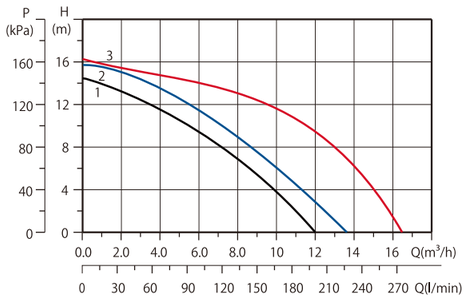
PUMP CURVE

FPS40-xxx F , FPS50-xxx F

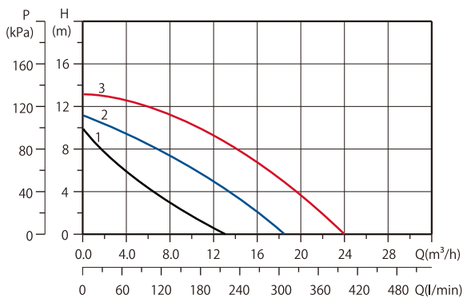
FPS 40-120F



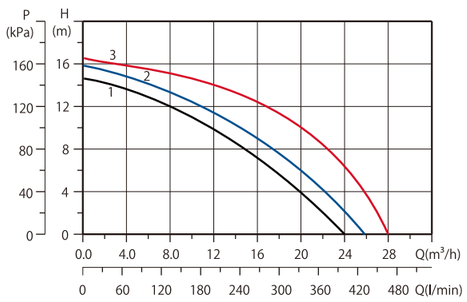
FPS 40-160F



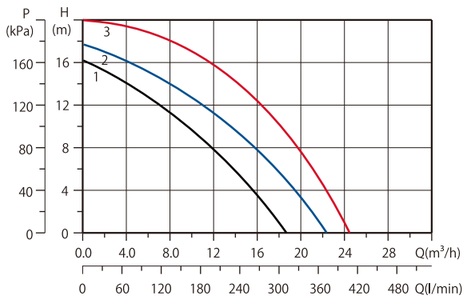
FPS 50-120F



FPS 50-160F



FPS 50-200F



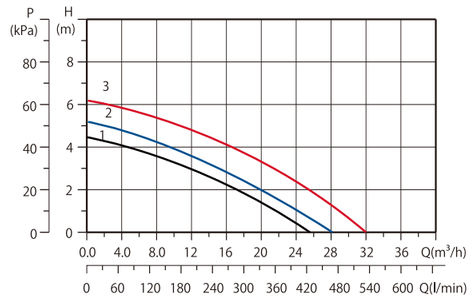
ELECTRICAL DATA 3 X 380 V, 50 HZ

Model	Power P1 max (W)	Max.flow (m³/h)	Max. head (m)	Rated flow (m³/h)	Rated head (m)	Flanges (mm)	Port to port space (mm)
FPS40-120F	700	14	12	8	8	DN40	250
FPS40-160F	1000	17	16	8	12.5	DN40	250
FPS50-120F	1000	24	12	12.5	8	DN50	280
FPS50-160F	1300	28	16	12.5	12.5	DN50	280
FPS50-200F	1300	24	20	8	16	DN50	280

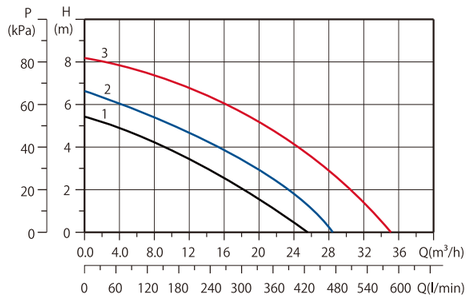
PUMP CURVE

FPS65-xxx F, FPS80-xxx F

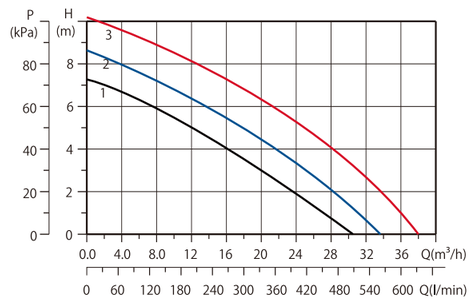
FPS 65-50F



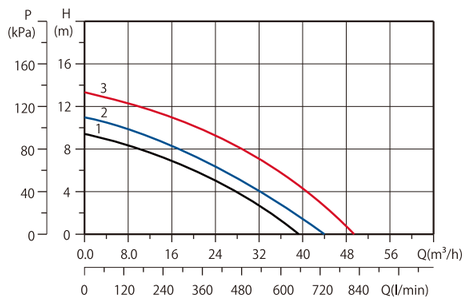
FPS 65-80F



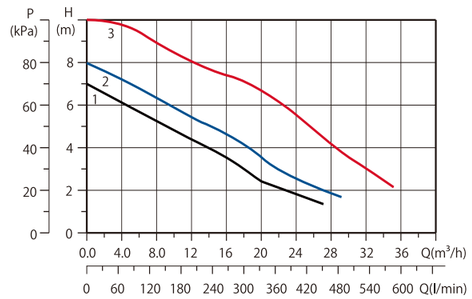
FPS 65-100F



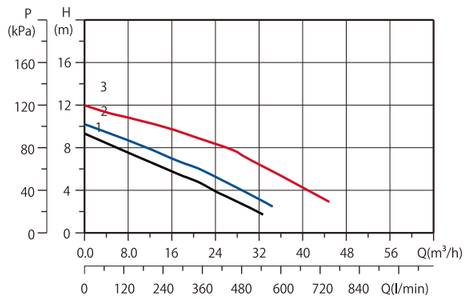
FPS 65-120F



FPS 80-100F



FPS 80-120F



ELECTRICAL DATA 3 X 380 V, 50 HZ

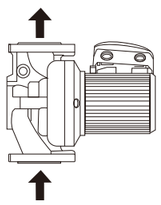
Model	Power P1 max (W)	Max.flow (m³/h)	Max. head (m)	Rated flow (m³/h)	Rated head (m)	Flanges (mm)	Port to port space (mm)
FPS65-50F	700	32	5	20	3	DN65	340
FPS65-80F	700	35	8	20	5	DN65	340
FPS65-100F	1000	38	10	20	8	DN65	340
FPS65-120F	1300	49	12	20	10	DN65	340
FPS80-100F	1000	35	10	22	6	DN80	360
FPS80-120F	1300	42	12	28	7	DN80	360

VARIABLE SPEED CIRCULATION PUMPS

INSTALLATIONS AND USE

It is a station of a pump with a frequency converter and a pressure sensor. This intelligent system adapts to the variable demand of the houses and the buildings. It will analyze and adjust automatically to the heating demands.

The pump must be installed with horizontal motor shaft.



FEATURES

. Constant pressure with the help of the pressure transmitter
. Constant temperature with the help of the thermostat
. Variable constant speeds, factory setting 50Hz, can be up to60Hz on request
. Super silent, sound pressure less than 50dB(A)
. Dry running,over current, over voltage protection
. Automatic restart upon power supply
. Anti-freezing function by automatic start/stop control

PERFORMANCE RANGE

. Flow rate up to 49m³/h
. Head up to 20m

OPERATING CONDITIONS

. Liquid temperature up to +110℃
. Ambient temperature up to +40℃
. Noise ≤ 45Db(A)
. Max. System pressure 10bar
. Continuous duty

ELECTRIC MOTOR

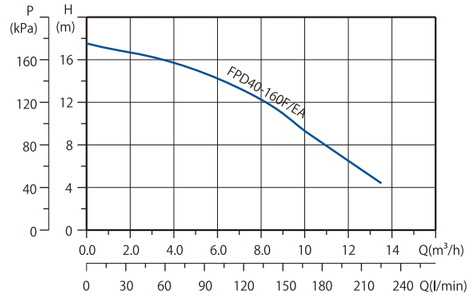
. Two-pole induction motor, 0~80Hz
. Single phase 220V-240V
. Insulation class H
. Protection IP23

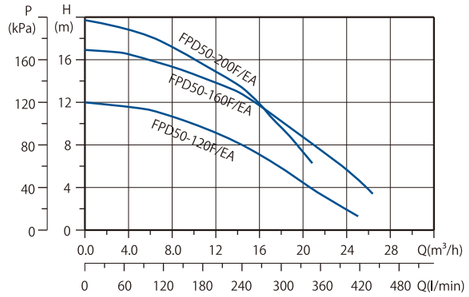
FREQUENCY CONVERTER

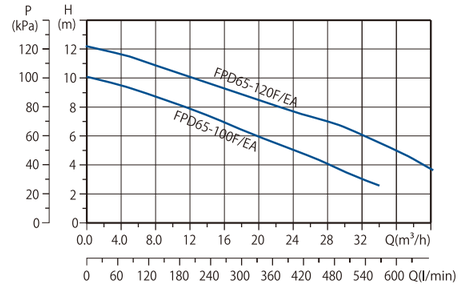
. Model: PDM30-2S2R2
. 2.2kW, 20kVA, 10A output
. Single phase 220V input voltage
. Suitable for both 1x220V and 3x220V motors
. Factory setting mode: Constant pressure mode

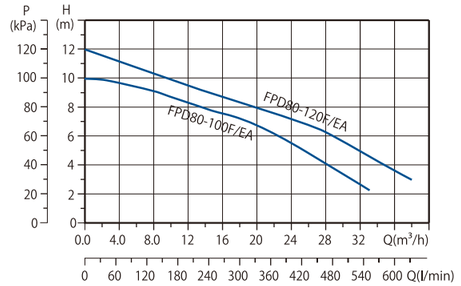
PUMP CURVE

50Hz, n=2850rpm







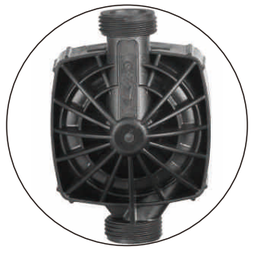


ELECTRICAL DATA 1 X 230 V, 50 HZ

Model	Power P1 max (W)	Max.flow (m³/h)	Max. head (m)	Rated flow (m³/h)	Rated head (m)	Flanges (mm)	Port to port space (mm)
FPD40-160F/EA	1000	17	16	8	12.5	DN40	250
FPD50-120F/EA	1000	24	12	12.5	8	DN50	280
FPD50-160F/EA	1300	28	16	12.5	12.5	DN50	280
FPD50-200F/EA	1300	24	20	8	16	DN50	280
FPD65-100F/EA	1000	38	10	20	8	DN65	340
FPD65-120F/EA	1300	49	12	20	10	DN65	340
FPD80-100F/EA	1000	35	10	22	6	DN80	360
FPD80-120F/EA	1300	42	12	28	7	DN80	360

GAS BOILER CIRCULATION PUMPS

Z027



Z071

Z106

Z107

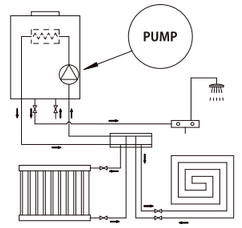
Z108

Z178

INSTALLATIONS AND USE

. The pumps are assembled in the hydraulic module of the gas wall hung boiler for heating and cooling system. An integrated air venting system of the pump can automatically deposits the air out of the water.

. The pumps are of the wet rotor type, the bearings are lubricated by the pumped liquid. The pump is combined by stator, rotor, shield cover, air vent valve and so on.



PERFORMANCE RANGE

. Flow rate up to $3m^3/h$
. Head up to 7m

OPERATING CONDITIONS

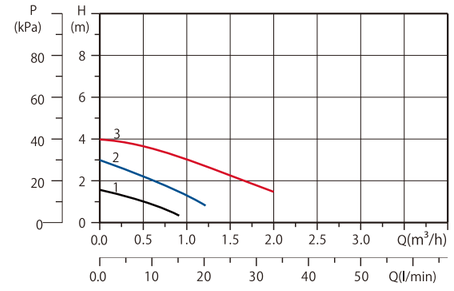
. Liquid temperature up to +20 ~ +95℃
. Ambient temperature up to +40℃
. Noise ≤ 42Db(A)
. Ambient humidity : ＜ 95%
. Max. System pressure 3bar
. To avoid NHP damage to the bearing of the pump, minimum inlet pressure must be kept 1 bar minimum

ELECTRIC MOTOR

. Two-pole induction motor, 50HZ
. Standard voltage 1x220V-240V
. Motor with built-in thermal protector
. Dry running mustn't be more than 10s
. Insulation class H
. Protection IP42

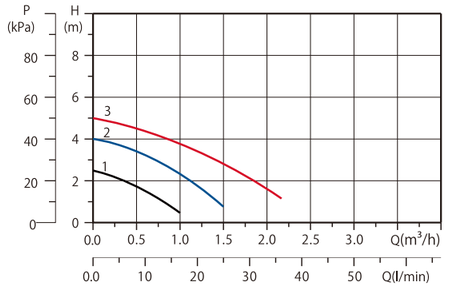
PUMP CURVE 1 X 230 V, 50 HZ

GBP 15-40



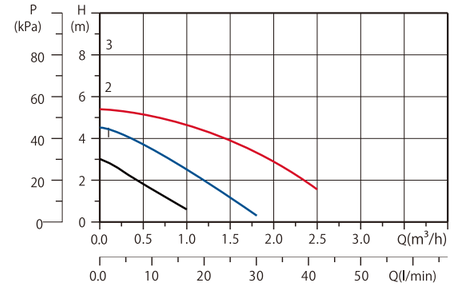
Model	Speed	Power(W)	Current(A)
GBP15-40	3	65	0.28
	2	50	0.22
	1	32	0.15

GBP15-50



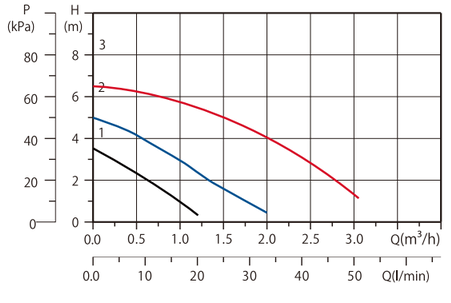
Model	Speed	Power(W)	Current(A)
GBP15-50	3	85	0.4
	2	60	0.3
	1	40	0.22

GBP15-60



Model	Speed	Power(W)	Current(A)
GBP15-60	3	100	0.45
	2	70	0.35
	1	55	0.25

GBP15-70



Model	Speed	Power(W)	Current(A)
GBP15-70	3	130	0.6
	2	110	0.52
	1	90	0.42