



**FGD**  
High Efficiency Circulation Pump  
50Hz

# Approvals



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# FGD - High Efficiency Circulation Pump

## Applications

1. Domestic heating and hot water supply systems
2. Air and ground source heat pump systems
3. Air-conditioning systems
4. Industrial hot water circulation systems
5. Solar thermal systems

## Features

### **Easy installation and operation**

Equipped with Self Adapting Mode(Auto Mode, Factory Setting), pump runs once the power is connected and adapts its performance according to actual system needs.

Control is effected by digital pulse-width modulation (PWM) low-voltage signal, enabling the pump to be used to meet different flow requirement in various systems.( For FGD II, III, IV only)

### **Low noise and high comfort**

Noise index:  $\leq 42\text{dB(A)}$

### **Low energy consumption**

A class energy efficiency, Power consumption lowest to 5W

### **Multiple protection**

With over-voltage and over-current protection

### **Eco-Design Benchmark**

EEI $\leq 0.20$ -Part 2

### **Quick release power plug**

Start-up and stop the pump quickly.

## FGD Control modes



Setting	Explanation
AUTO (factory setting)	Proportional pressure curve descending from highest to lowest
BL1	Min.propotional pressure curve
BL2	Max.propotional pressure curve
HD1	Min.constant pressure curve
HD2	Max.constant pressure curve
III	Constant Speed III
II	Constant Speed II
I	Constant Speed I
Night mode	Night mode

HS1, HS2, HS3, AUTO, BL1, BL2, HD1, HD2

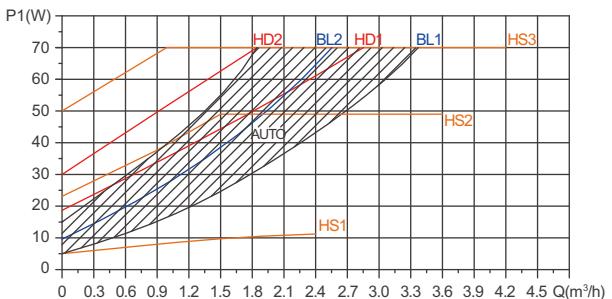
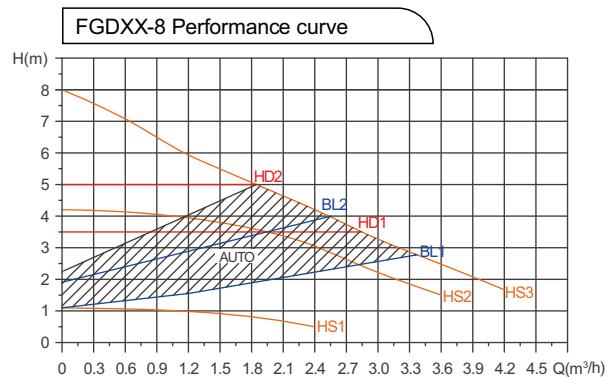
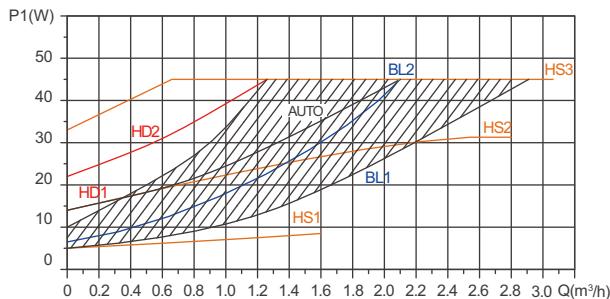
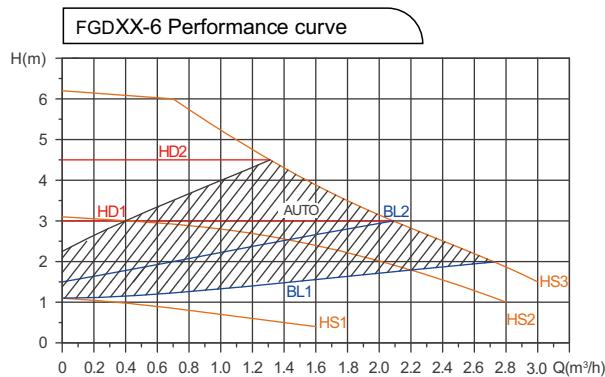
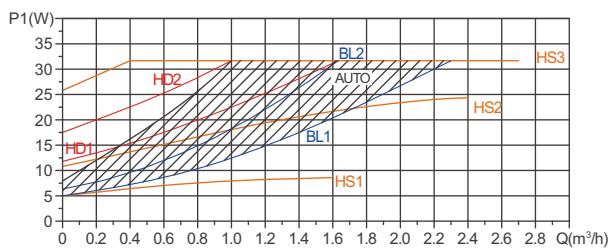
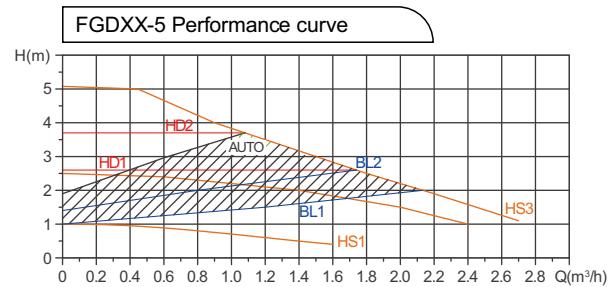
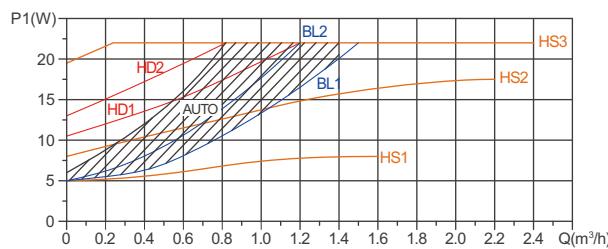
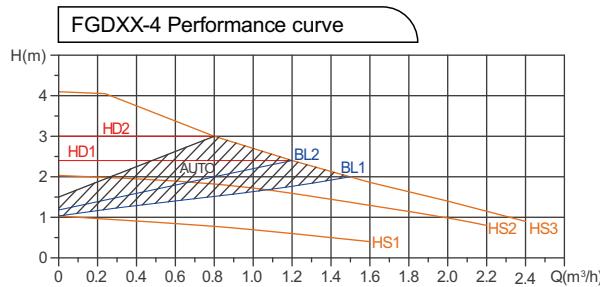
Press button to switch between different control modes,

Press night mode button to switch to night mode.

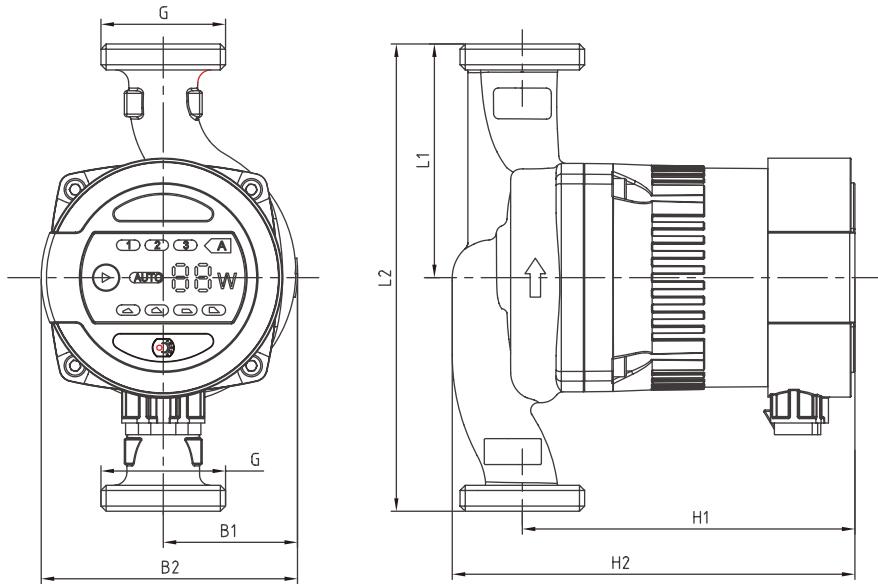
## Technical data

<b>Power supply voltage</b>	230V 50/60Hz, PE
<b>Motor protection</b>	No external protection required
<b>IP class</b>	IP44
<b>Insulation class</b>	H
<b>(RH) Humidity</b>	Max. 95%
<b>System pressure</b>	1.0 MPa
<b>Compliance</b>	CE/ GS/ EMC/ LVD/RoHS/REACH
<b>Environment temperature</b>	0~+40°C
<b>Temperature class</b>	TF110
<b>Liquid temperature</b>	-30~+110°C(Glycol up to 50%)

## Performance curve



## Dimensions



## Technical parameter

Power (W)	Model	Max Flow (m³/h)	Max Head (m)	Current (A)	Voltage/ Frequency		Pump body material				Dimensions(mm)						Package size (mm*mm*mm)		Wt.(kg)	
					230V	50/60Hz	Cast iron	Plastic	Brass	Stainless steel	L1	L2	B1	B2	H1	H2	G	Inner box	G.W.N.W.	
22	FGD20-4	2.3	4	0.19	●		●	●	●	●	65	130	51	98	133	153	1"	190x170x150	2.4	1.9
	FGD25-4	2.5			●		●		●	●	65	130	52	99	128	156		190x170x150	2.9	2.1
		2.5			●					●	75	150	49	96	131	155	1 1/2"	190x170x200	3.1	2.3
	FGD32-4	2.5			●		●		●	●	90	180	52	99	128	156		190x170x200	3.2	2.4
	FGD32-4	3.0			●		●				90	180	52	99	128	156	2"	190x170x200	3.5	2.5
32	FGD20-5	2.5	5	0.27	●		●	●	●	●	65	130	52	99	133	153	1"	190x170x150	2.4	1.9
	FGD25-5	3.0			●		●		●	●	65	130	52	99	128	156		190x170x150	2.9	2.1
		3.0			●					●	75	150	49	96	131	155	1 1/2"	190x170x200	3.1	2.3
	FGD32-5	3.0			●		●		●	●	90	180	52	99	128	156		190x170x200	3.2	2.4
	FGD32-5	3.5			●		●				90	180	52	99	128	156	2"	190x170x200	3.5	2.5
45	FGD20-6	2.8	6	0.38	●		●	●	●	●	65	130	52	99	133	153	1"	190x170x150	2.4	1.9
	FGD25-6	3.2			●		●		●	●	65	130	52	99	128	156		190x170x150	2.9	2.1
		3.2			●					●	75	150	49	96	131	155	1 1/2"	190x170x200	3.1	2.3
	FGD32-6	3.2			●		●		●	●	90	180	52	99	128	156		190x170x200	3.2	2.4
	FGD32-6	4.0			●		●				90	180	52	99	128	156	2"	190x170x200	3.5	2.5
70	FGD20-8	3.4	8	0.52	●		●	●	●	●	65	130	52	98	133	153	1"	190x170x150	2.4	1.9
	FGD25-8	4.0			●		●		●	●	65	130	52	99	128	156		190x170x150	2.9	2.1
		4.0			●					●	75	150	49	96	131	155	1 1/2"	190x170x200	3.1	2.3
	FGD32-8	4.0			●		●		●	●	90	180	52	99	128	156		190x170x200	3.2	2.4
	FGD32-8	5.0			●		●				90	180	52	99	128	156	2"	190x170x200	3.5	2.5

## FGD II Control modes

Two versions, to meet different requirements of usages.

1. Button model, to switch modes with button
2. Rotary control model, easy operation



### FGD II

Night mode:

1. Press button to switch between control modes,
2. Press night mode button to switch to night mode.



Setting	Explanation
Auto (Factory Setting)	Proportional pressure curve descending from highest to lowest
BL1	Min. proportional pressure curve
BL2	Max. proportional pressure curve
HD1	Min. constant pressure curve
HD2	Max. constant pressure curve
III	Constant Speed III
II	Constant Speed II
I	Constant Speed I
Night mode	
PWM	PWM duty cycle performance curve

### FGD II CV + Auto

Running light:

Switch between AUTO and

Min-Max with rotary control

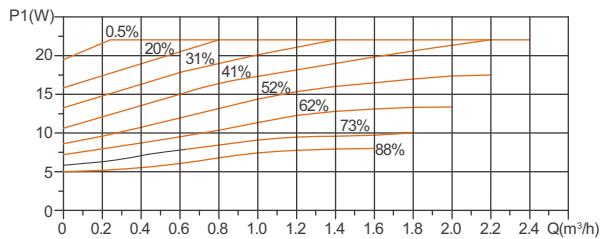
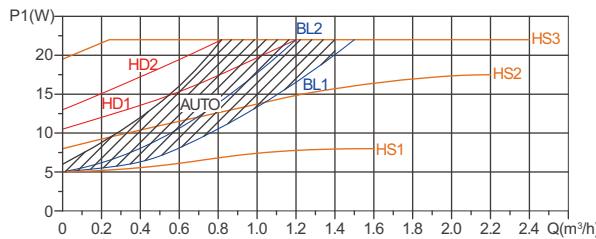
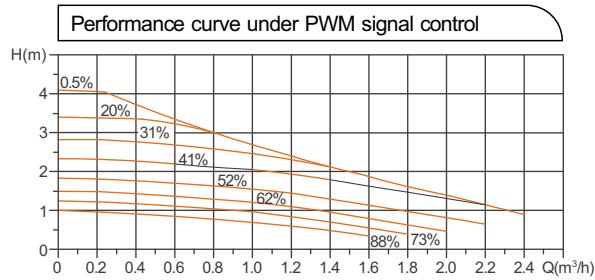
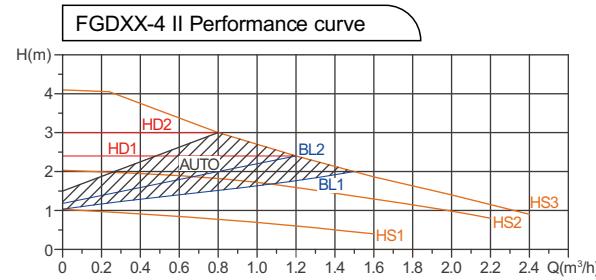


Setting	Explanation
AUTO (factory setting)	Proportional pressure curve descending from highest to lowest
Continuously viable	"Min-Max" curve

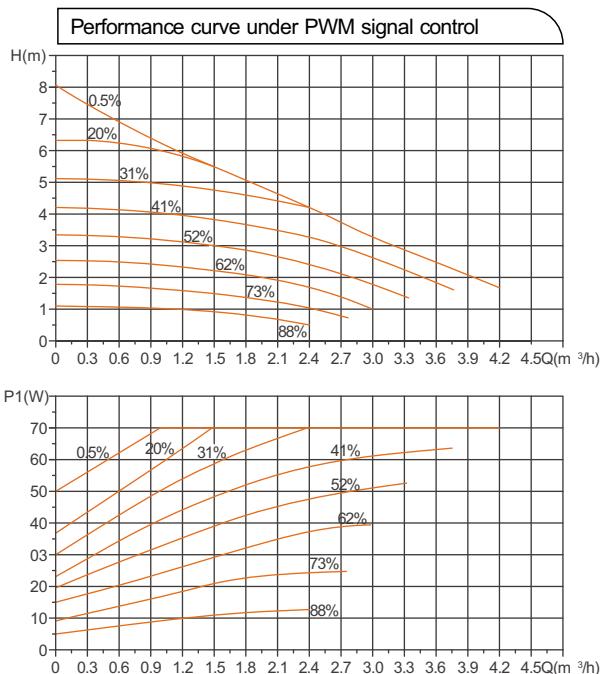
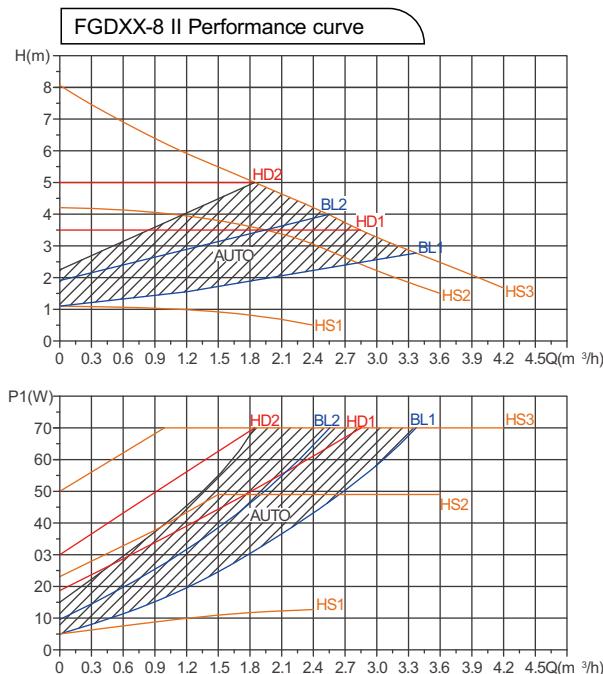
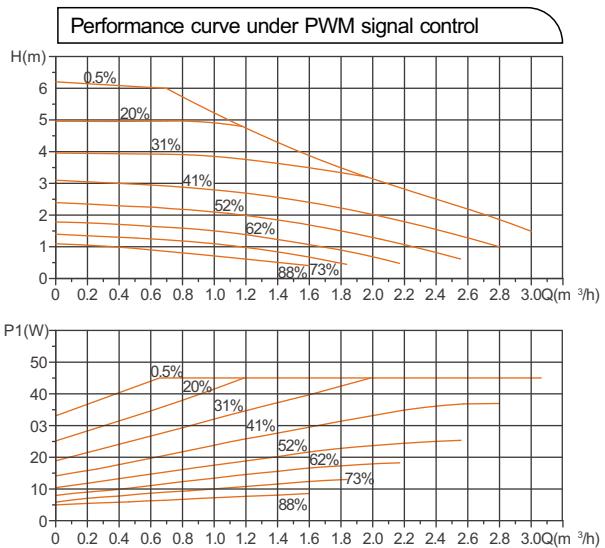
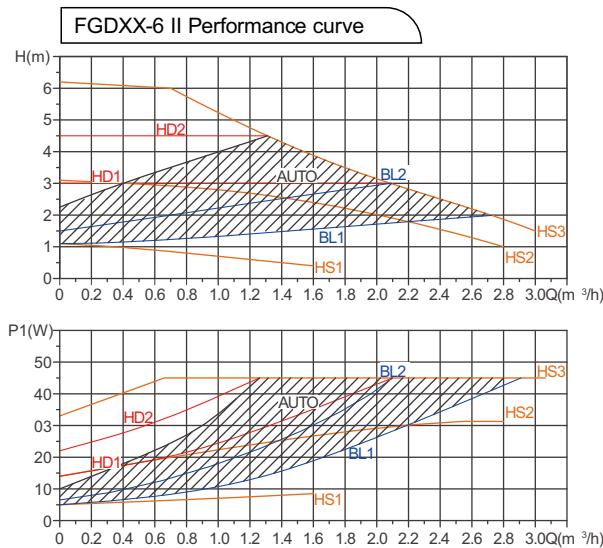
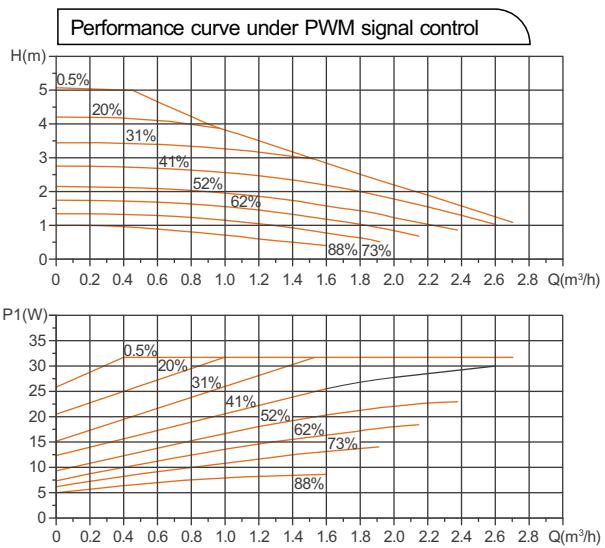
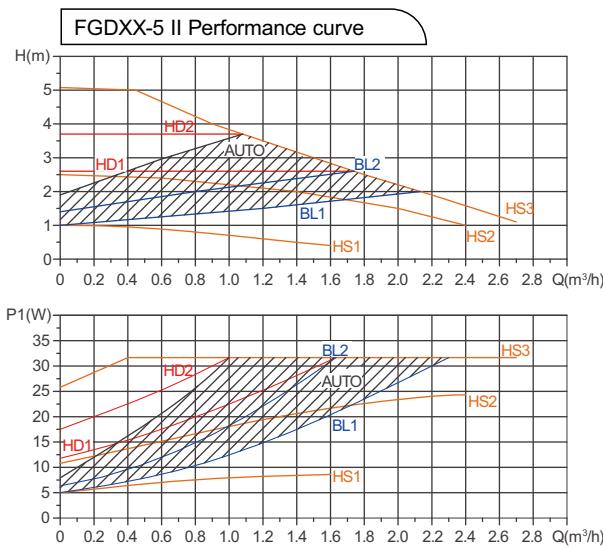
## Technical data

<b>Power supply voltage</b>	230V 50/60Hz, PE
<b>Motor protection</b>	No external protection required
<b>IP class</b>	IP44
<b>Insulation class</b>	H
<b>(RH) Humidity</b>	Max. 95%
<b>System pressure</b>	1.0 MPa
<b>Compliance</b>	CE/ GS/ EMC/ LVD/RoHS/REACH
<b>Environment temperature</b>	0~+40°C
<b>Temperature class</b>	TF110
<b>Liquid temperature</b>	-30~+110°C(Glycol up to 50%)

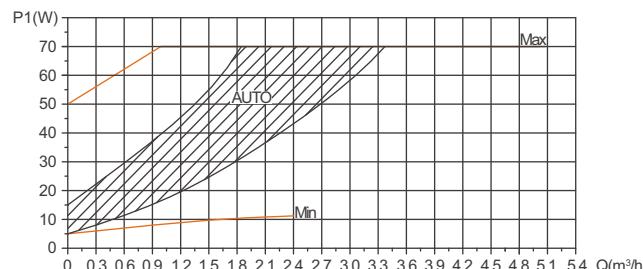
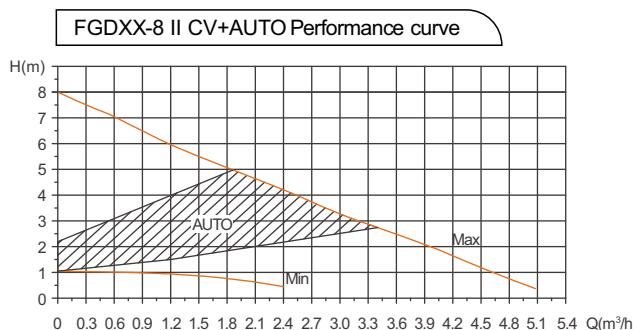
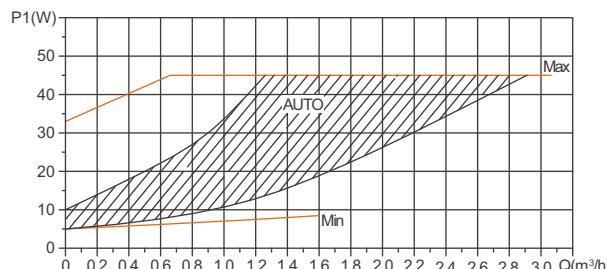
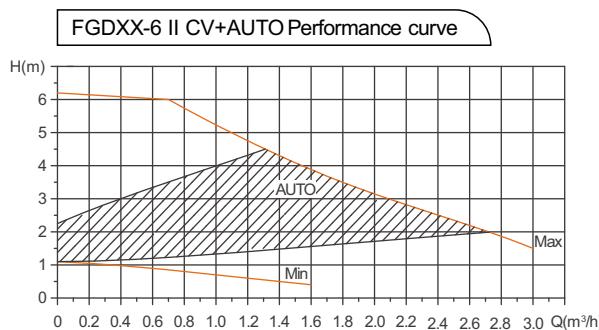
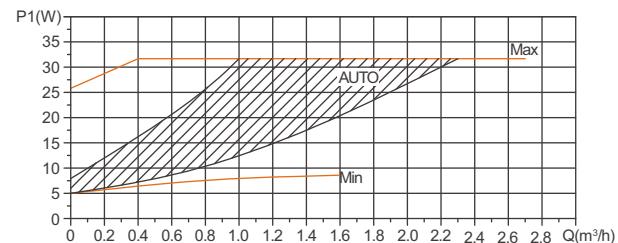
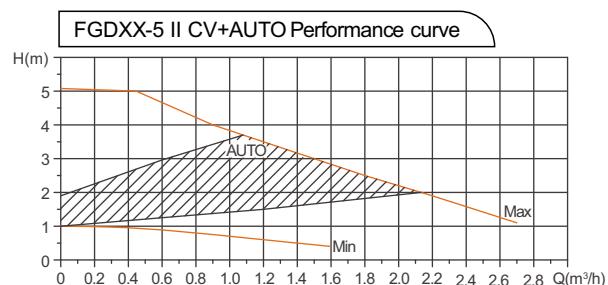
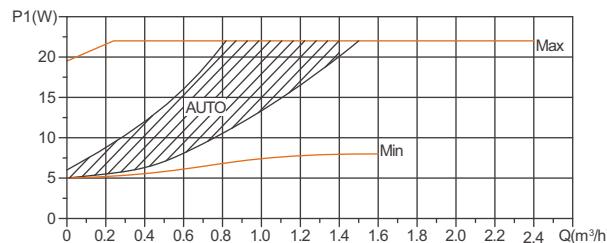
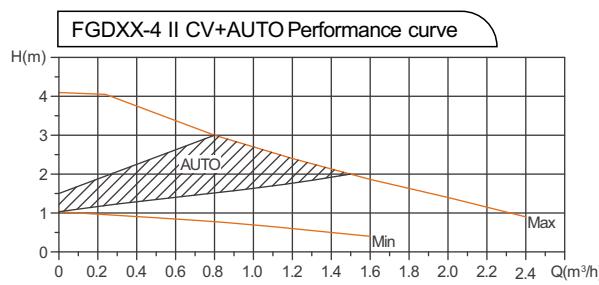
## Performance curve



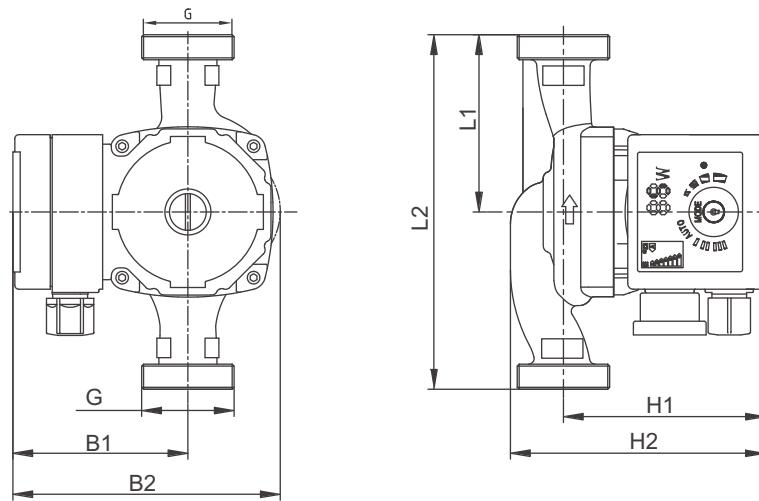
## Performance curve



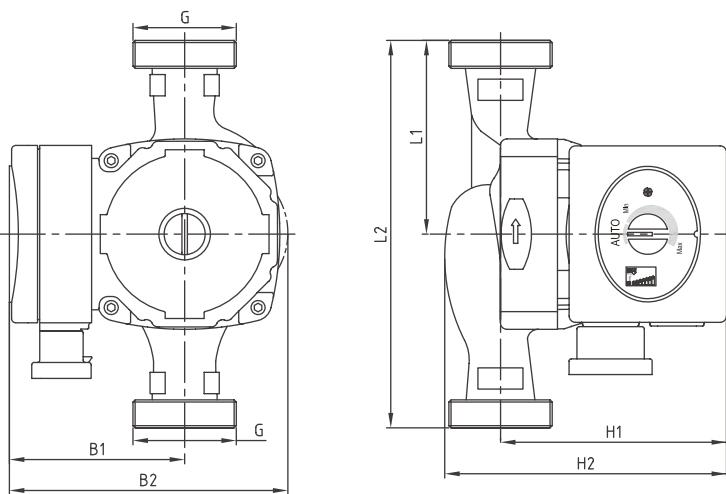
## Performance curve FGD II CV+Auto



## Dimensions FGD II



## Dimensions FGD II CV+Auto



## Performance parameter

Power (W)	Model	Max flow (m³/h)	Max Head (m)	Current (A)	Voltage/ Frequency 230V 50/60Hz	Pump body material				Dimensions(mm)							Package size (mm*mm*mm)		Wt.(kg)	
						Cast iron	Plastic	Brass	Stainless steel	65	130	82	130	103	127	1"	155x140x165	G.W.	N.W.	
22	FGD20-4 II	2.3	4	0.19	●	●	●	●	●	65	130	82	130	103	127	1"	155x140x165	2.4	1.9	
	FGD25-4 II	2.5			●	●				65	130	82	130	103	130		155x140x165	2.9	2.1	
	FGD32-4 II	3.0			●	●				75	150	82	130	103	130	11/2"	200x165x155	3.1	2.3	
	FGD32-4 II	3.0			●	●				90	180	82	130	103	130		200x165x155	3.2	2.4	
32	FGD20-5 II	2.5	5	0.27	●	●	●	●	●	65	130	82	130	103	127	1"	155x140x165	2.4	1.9	
	FGD25-5 II	3.0			●	●				65	130	82	130	103	130		155x140x165	2.9	2.1	
	FGD32-5 II	3.5			●	●				75	150	82	130	103	130	11/2"	200x165x155	3.1	2.3	
	FGD32-5 II	3.5			●	●				90	180	82	130	103	130		200x165x155	3.2	2.4	
45	FGD20-6 II	2.8	6	0.38	●	●	●	●	●	65	130	82	130	103	127	1"	155x140x165	2.4	1.9	
	FGD25-6 II	3.2			●	●				65	130	82	130	103	130		155x140x165	2.9	2.1	
	FGD32-6 II	4.0			●	●				75	150	82	130	103	130	11/2"	200x165x155	3.1	2.3	
	FGD32-6 II	4.0			●	●				90	180	82	130	103	130		200x165x155	3.2	2.4	
70	FGD20-8 II	3.4	8	0.52	●	●	●	●	●	65	130	88	136	103	127	1"	155x140x165	2.9	2.1	
	FGD25-8 II	4.0			●	●				65	130	88	136	103	130		155x140x165	2.9	2.1	
	FGD32-8 II	5.0			●	●				75	150	88	136	103	130	11/2"	200x165x155	3.1	2.3	
	FGD32-8 II	5.0			●	●				90	180	88	136	103	130		200x165x155	3.2	2.4	

## FGD II BL Control modes



Running lights

Switch between AUTO and Min-Max with button

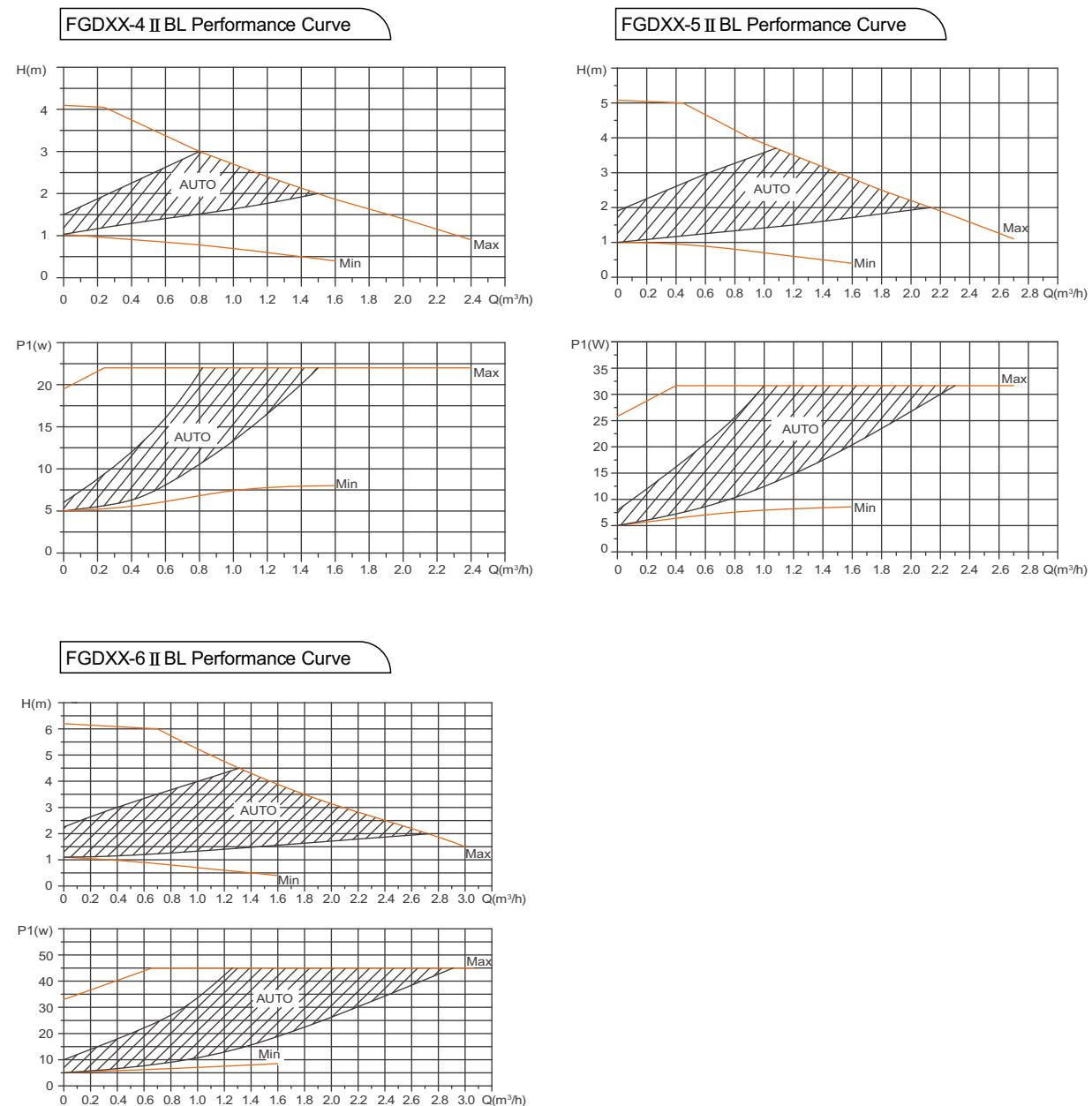


Setting	Explanation
Auto (Factory Setting)	Proportional pressure curve descending from highest to lowest
Min	Min. curve
Max	Max. curve

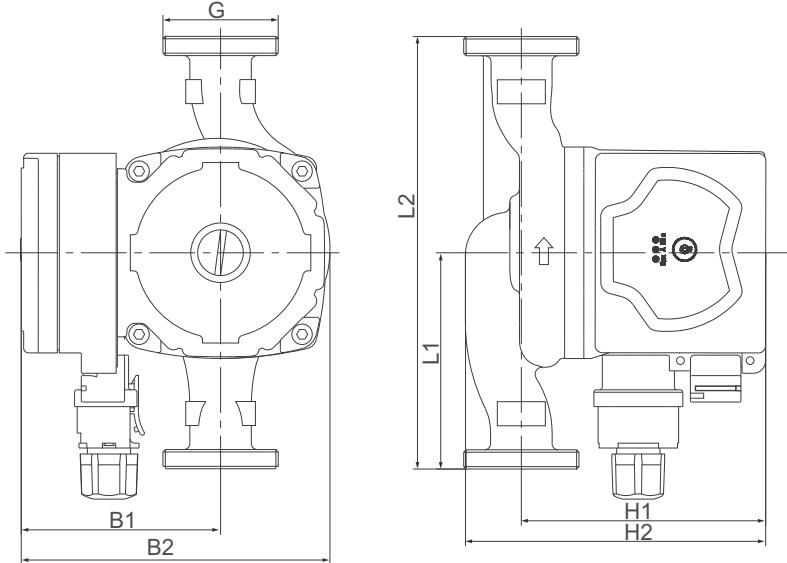
## Technical data

<b>Power supply voltage</b>	230V 50/60Hz, PE
<b>Motor protection</b>	No external protection required
<b>IP class</b>	IP44
<b>Insulation class</b>	H
<b>(RH) Humidity</b>	Max. 95%
<b>System pressure</b>	1.0 MPa
<b>Compliance</b>	CE/ GS/ EMC/ LVD/RoHS/REACH
<b>Environment temperature</b>	0~+40°C
<b>Temperature class</b>	TF110
<b>Liquid temperature</b>	-30~+110°C(Glycol up to 50%)

## Performance curve



## Dimensions



## Performance parameter

Power (W)	Model	Max Flow (m³/h)	Max Head (m)	Current (A)	Voltage/ Frequency		Pump body material				Dimensions(mm)				Package size (mm*mm*mm)		Wt.(kg)			
					230V	50/60Hz	Cast iron	Plastic	Brass	Stainless steel	L1	L2	B1	B2	H1	H2	G	Inner box		
22	FGD20-4II BL	2.3	4	0.19	●		●	●	●	●	65	130	82	130	103	127	1"	155x140x165	2.4	1.9
	FGD25-4II BL	2.5			●		●				65	130	82	130	103	130		155x140x165	2.9	2.1
	FGD32-4II BL	3.0			●		●				75	150	82	130	103	130	1 1/2"	200x165x155	3.1	2.3
	FGD32-4II BL	3.0			●		●				90	180	82	130	103	130		200x165x155	3.2	2.4
32	FGD20-5II BL	2.5	5	0.27	●		●	●	●	●	65	130	82	130	103	127	1"	155x140x165	2.4	1.9
	FGD25-5II BL	3.0			●		●				65	130	82	130	103	130		155x140x165	2.9	2.1
	FGD32-5II BL	3.5			●		●				75	150	82	130	103	130	1 1/2"	200x165x155	3.1	2.3
	FGD32-5II BL	3.5			●		●				90	180	82	130	103	130		200x165x155	3.2	2.4
45	FGD20-6II BL	2.8	6	0.38	●		●	●	●	●	65	130	82	130	103	127	1"	155x140x165	2.4	1.9
	FGD25-6II BL	3.2			●		●				65	130	82	130	103	130		155x140x165	2.9	2.1
	FGD32-6II BL	4.0			●		●				75	150	82	130	103	130	1 1/2"	200x165x155	3.1	2.3
	FGD32-6II BL	4.0			●		●				90	180	82	130	103	130		200x165x155	3.2	2.4

## FGD III Control modes



Press button to switch between modes.

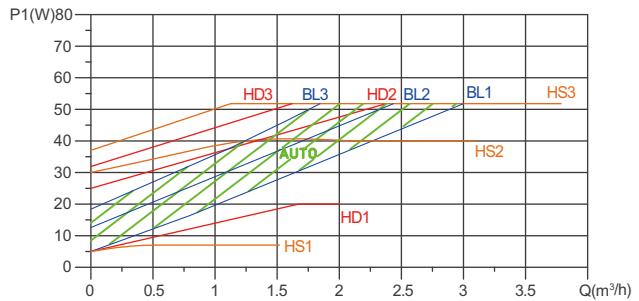
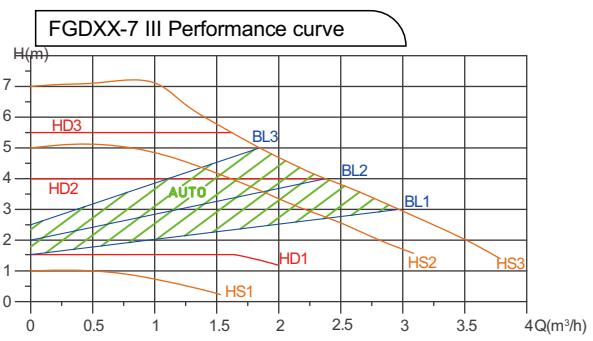
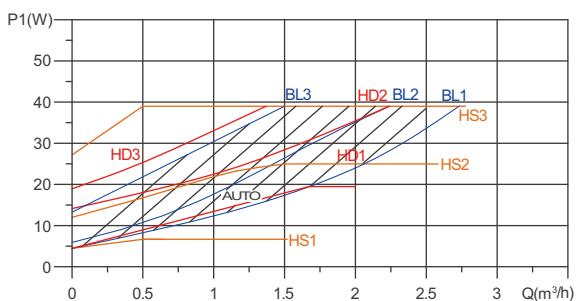
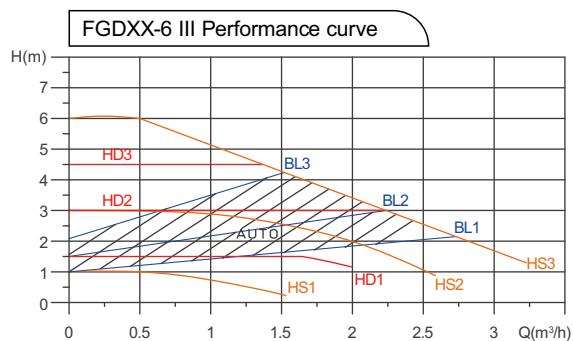
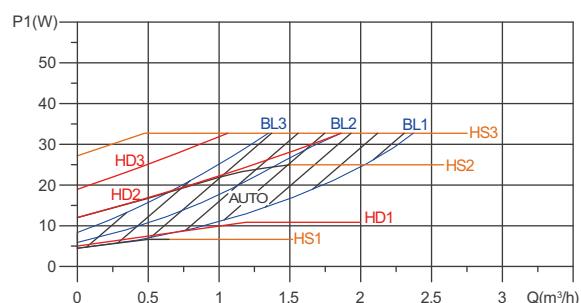
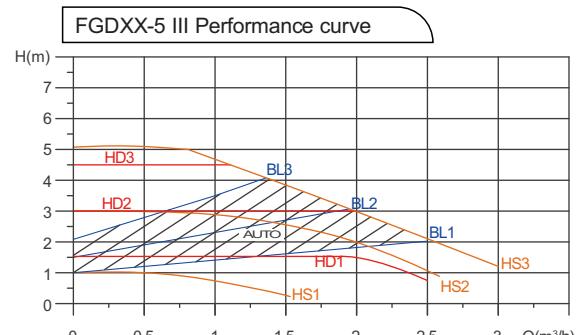
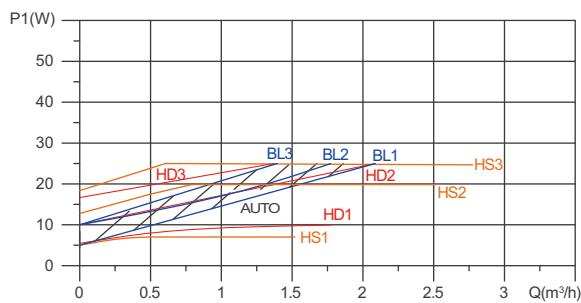
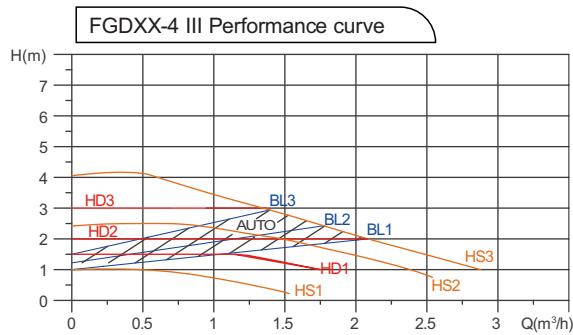
HS1, HS2, HS3, AUTO, BL1, BL2, BL3, HD1, HD2, HD3

Lighting area	Explanation	As shown in the figure
Auto(Factory setting)	Highest to Lowest Proportional Pressure Curve	
HS1	Constant Speed I	
HS2	Constant Speed II	
HS3	Constant Speed III	
BL1	Lowest Proportional Pressure Curve	
BL2	Intermediate Proportional Pressure Curve	
BL3	Highest Proportional Pressure Curve	
HD1	Lowest Constant Pressure Curve	
HD2	Intermediate Constant Pressure Curve	
HD3	Highest Constant Pressure Curve	
PWM	Duty cycle and rotational velocity curve	

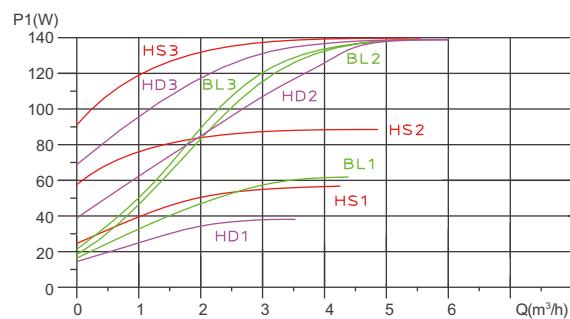
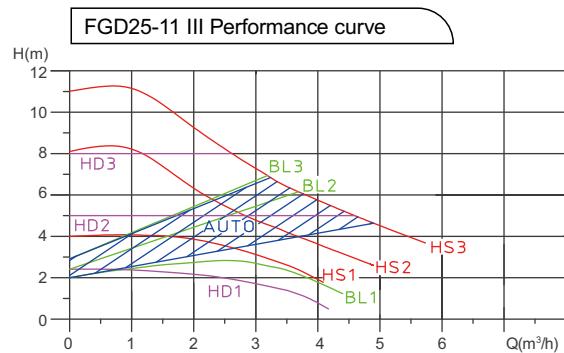
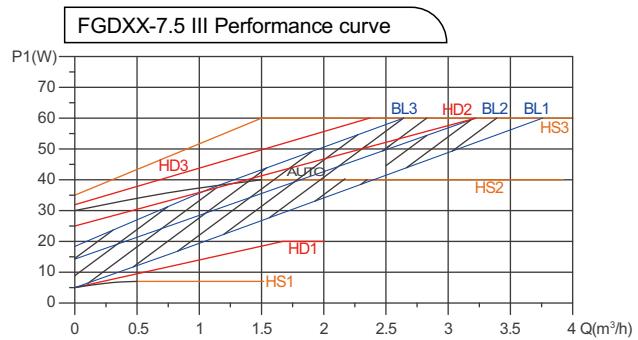
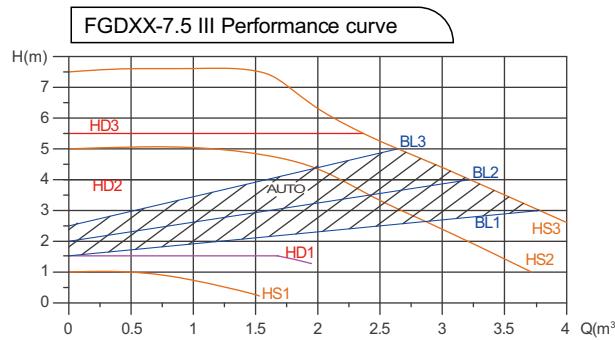
## Technical parameter

Power supply voltage	230V 50/60Hz, PE
Motor protection	No external protection required
IP class	IP44
Insulation class	H
Humidity (RH)	Max 95%
System pressure	1.0 MPa
Compliance	CE/ GS/ EMC/ LVD/RoHS/REACH
Environment temperature	0~+70°C
Temperature class	TF110
Liquid temperature	-30~+110°C(Glycol up to 50%)

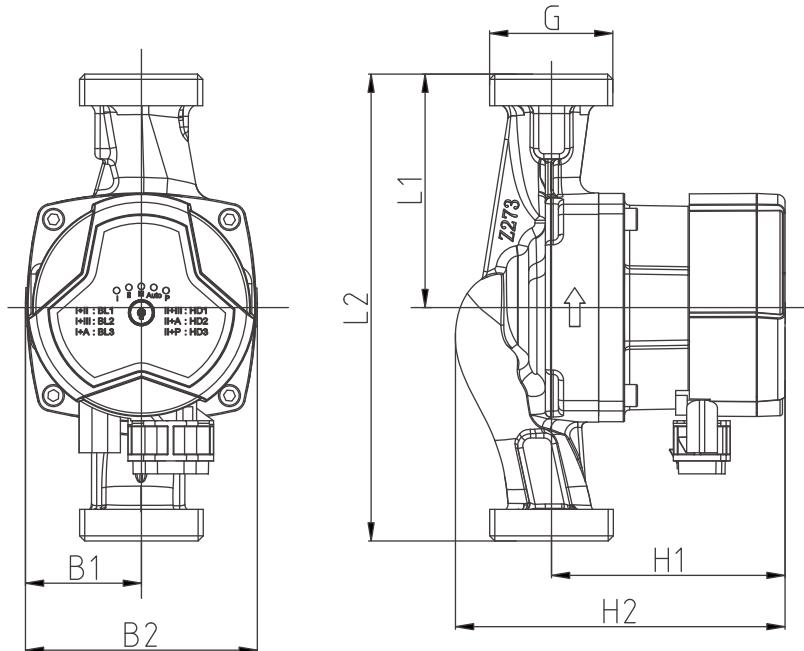
## Performance curve



## Performance curve



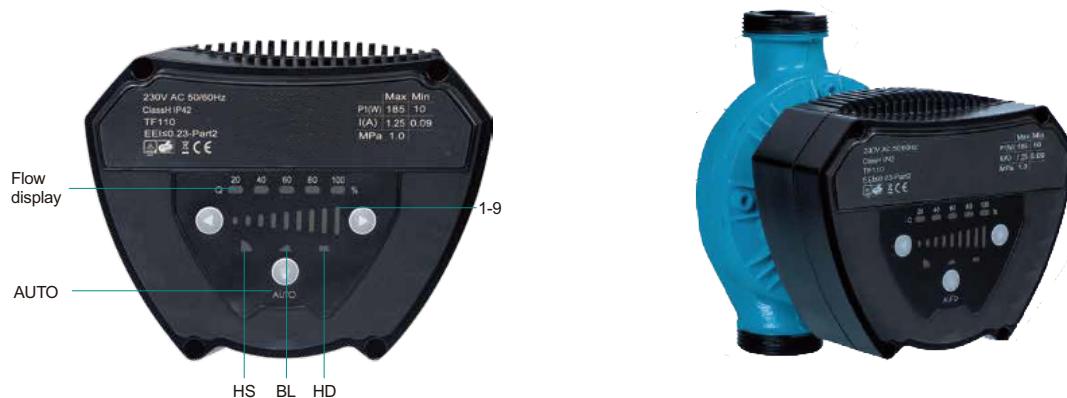
## Dimensions



## Performance parameter

Power (W)	Model	Max.Flow (m <sup>3</sup> /h)	Max. Head (m)	Current (A)	Voltage Frequency 230V 50/60Hz	Material of pump housing				Dimension(mm)						Package size (mm*mm*mm)		Wt.(kg)	
						Cast Iron	Plastic	Copper	Stainless Steel	L1	L2	B1	B2	H1	H2	G	Inner box	G.W.	N.W.
25	FGD20-4 III	2.2	4	0.25	●	●	●	●	●	65	130	45	90	94	122	1"	155x140x165	2.1	1.6
	FGD25-4 III	2.5			●	●				65	130	45	90	90	127	11/2"	155x140x165	2.3	1.8
	FGD32-4 III	2.8			●	●		●	●	90	180	45	90	90	127	2"	200x165x155	2.5	1.9
	FGD32-4 III	2.8			●	●				90	180	45	90	90	127	2"	200x165x155	2.9	2.0
33	FGD20-5 III	2.3	5	0.30	●	●	●	●	●	65	130	45	90	94	122	1"	155x140x165	2.1	1.6
	FGD25-5 III	2.8			●	●				65	130	45	90	90	127	11/2"	155x140x165	2.3	1.8
	FGD32-5 III	3.2			●	●		●	●	90	180	45	90	90	127	2"	200x165x155	2.5	1.9
	FGD32-5 III	3.2			●	●				90	180	45	90	90	127	2"	200x165x155	2.9	2.0
39	FGD20-6 III	2.8	6	0.35	●	●	●	●	●	65	130	45	90	94	122	1"	155x140x165	2.1	1.6
	FGD25-6 III	3.2			●	●				65	130	45	90	90	127	11/2"	155x140x165	2.3	1.8
	FGD32-6 III	3.6			●	●		●	●	90	180	45	90	90	127	2"	200x165x155	2.5	1.9
	FGD32-6 III	3.6			●	●				90	180	45	90	90	127	2"	200x165x155	2.9	2.0
52	FGD20-7 III	2.8	7	0.45	●	●	●	●	●	65	130	45	90	94	122	1"	155x140x165	2.1	1.6
	FGD25-7 III	3.4			●	●				65	130	45	90	90	127	11/2"	155x140x165	2.3	1.8
	FGD32-7 III	3.8			●	●		●	●	90	180	45	90	90	127	2"	200x165x155	2.5	1.9
	FGD32-7 III	3.8			●	●				90	180	45	90	90	127	2"	200x165x155	2.9	2.0
60	FGD20-7.5 III	2.8	7.5	0.50	●	●	●	●	●	65	130	45	90	94	122	1"	155x140x165	2.1	1.6
	FGD25-7.5 III	3.4			●	●				65	130	45	90	90	127	11/2"	155x140x165	2.3	1.8
	FGD32-7.5 III	3.8			●	●		●	●	90	180	45	90	90	127	2"	200x165x155	2.5	1.9
	FGD32-7.5 III	3.8			●	●				90	180	45	90	90	127	2"	20x16.5x15.5	2.9	2.0
140	FGD25-11	5.5	11	1.0	●	●				90	180	66	132	132	170	1 1/2"	205x180x190	3.8	3.0
	FGD32-11	7.0	11	1.0	●	●				90	180	66	132	FGD 170	2"	205x180x190	4.0	3.2	

## FGD IV control modes



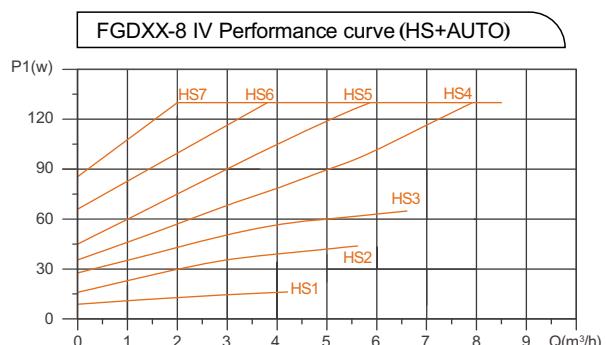
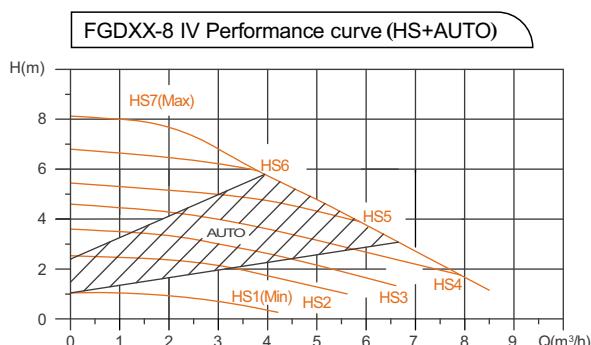
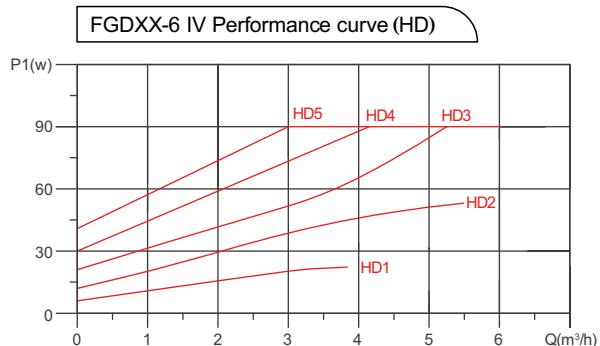
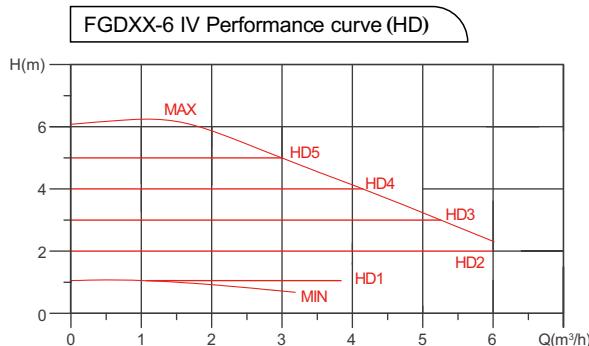
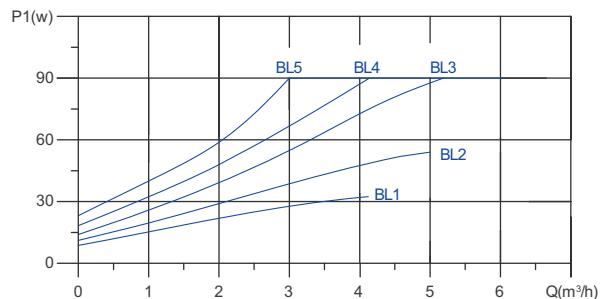
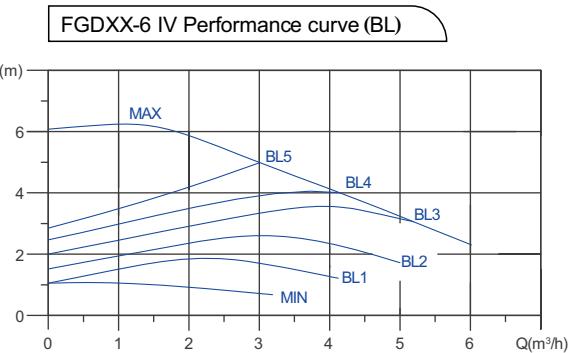
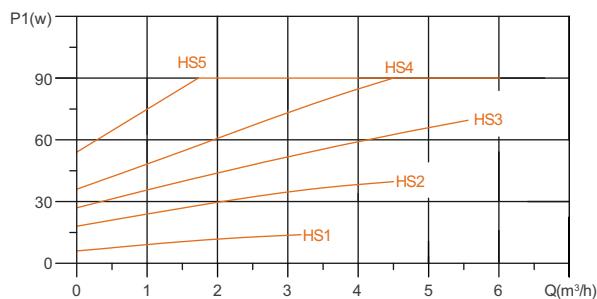
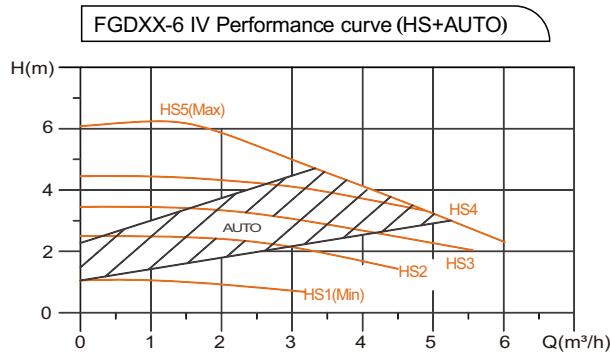
Setting	Explanation
AUTO (factory setting)	Running within Defined Range
BL	Proportional pressure curve
HD	Constant pressure curve
HS	Constant speed curve

Press button to switch between different control modes and increase or decrease the setting with the buttons on left and right side.

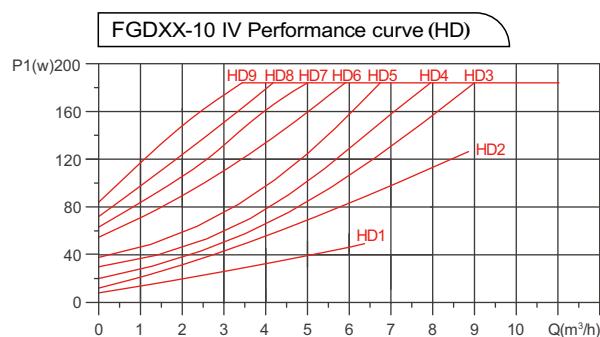
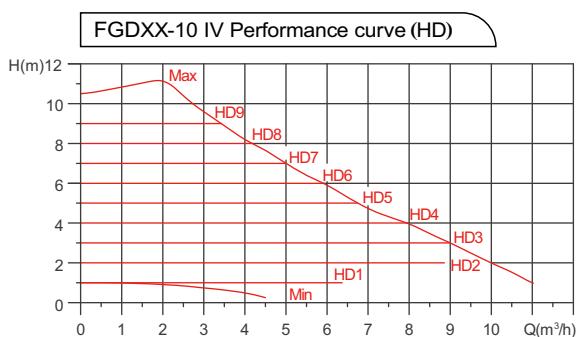
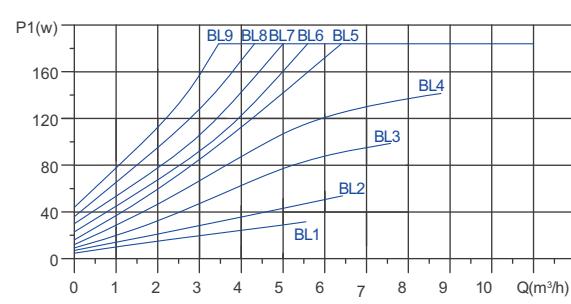
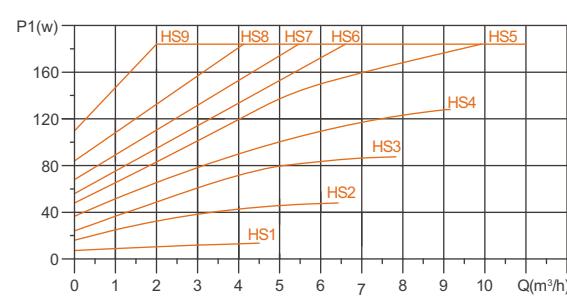
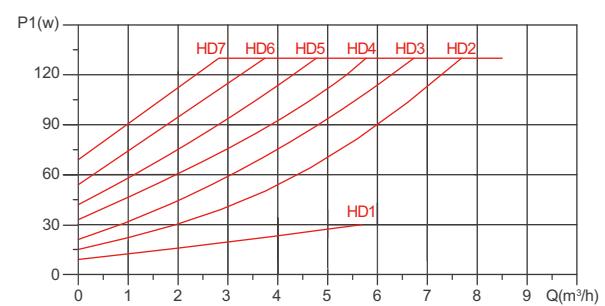
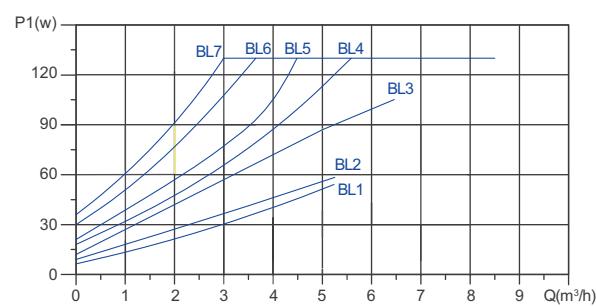
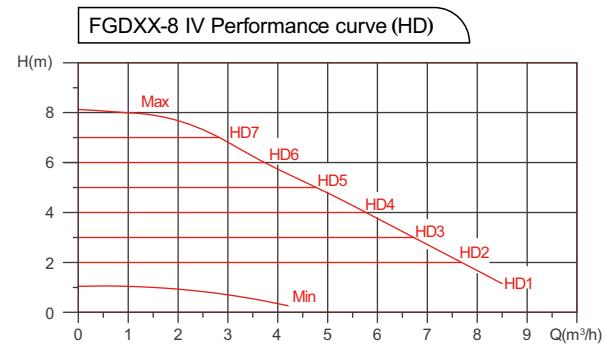
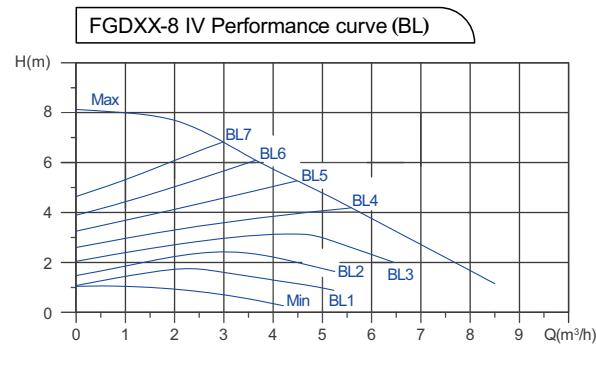
## Technical data

<b>Power supply voltage</b>	230V 50/60Hz, PE
<b>Motor protection</b>	No external protection required
<b>IP class</b>	IP44
<b>Insulation class</b>	H
<b>(RH) Humidity</b>	Max. 95%
<b>System pressure</b>	1.0 MPa
<b>Compliance</b>	CE/ GS/ EMC/ LVD/RoHS/REACH
<b>Environment temperature</b>	0~+40°C
<b>Temperature class</b>	TF110
<b>Liquid temperature</b>	-30~+110°C(Glycol up to 50%)

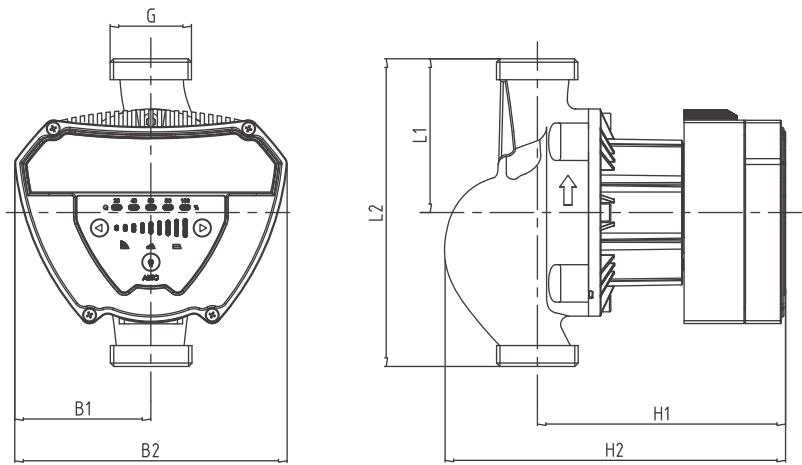
## Performance curve



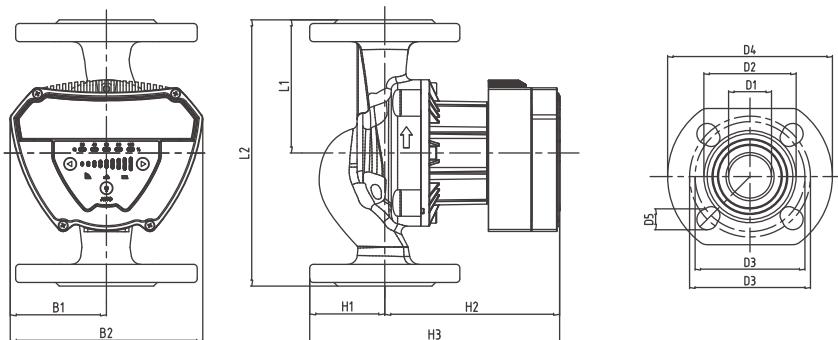
## Performance curve



## Dimensions



Model	Material of pump body		Dimension(mm)							Package size (mm*mm*mm)		Wt.(kg)	
	Cast iron	Stainless Steel	L1	L2	B1	B2	H1	H2	G	Inner box	G.W.	N.W.	
FGD25-6 IV	●	●	90	180	80	160	140	199	11½"	235x180x200	5.0	4.5	
FGD32-6 IV	●		90	180	80	160	140	199	2"	235x180x200	5.5	5.0	
FGD25-8 IV	●	●	90	180	80	160	140	199	11½"	235x180x200	5.0	4.5	
FGD32-8 IV	●		90	180	80	160	140	199	2"	235x180x200	5.5	5.0	
FGD25-10 IV	●	●	90	180	80	160	140	199	11½"	235x180x200	5.0	4.5	
FGD32-10 IV	●		90	180	80	160	140	199	2"	235x180x200	5.5	5.0	



Model	Pump body material	Dimensions(mm)												Package size (mm*mm*mm)		Wt.(kg)	
		Cast iron	L1	L2	B1	B2	H1	H2	H3	D1	D2	D3	D4	D5	Inner box	G.W.	N.W.
FGD40-6F IV	●	110	220	80	160	62	144	206	40	84	100/110	150	19	245x210x245	10.0	7.6	
FGD40-8F IV	●	110	220	80	160	62	144	206	40	84	100/110	150	19	245x210x245	10.0	7.6	
FGD40-10F IV	●	110	220	80	160	62	144	206	40	84	100/110	150	19	245x210x245	10.0	7.6	

## Performance parameter

Model	Max. Flow (m <sup>3</sup> /h)	Max. Head (m)	Power(W)		Current(A)		Volatge/Frequency (V/Hz)
			Min.	Max.	Min.	Max.	
FGD25-6 IV	5.5	6	6	90	0.06	0.63	230V 50/60Hz
FGD25-8 IV	6.5	8	8	130	0.08	0.9	
FGD25-10 IV	7	10	10	185	0.1	1.25	
FGD25-6N IV	5.5	6	6	90	0.06	0.63	230V 50/60Hz
FGD25-8N IV	6.5	8	8	130	0.08	0.9	
FGD25-10N IV	7	10	10	185	0.1	1.25	
FGD32-6 IV	6.5	6	6	90	0.06	0.63	230V 50/60Hz
FGD32-8 IV	8	8	8	130	0.08	0.9	
FGD32-10 IV	10	10	10	185	0.1	1.25	
FGD40-6F IV	7.5	6	6	90	0.06	0.63	230V 50/60Hz
FGD40-8F IV	8.5	8	8	130	0.08	0.9	
FGD40-10F IV	10	10	10	185	0.1	1.25	

## FGD 15-6F control modes



This model equipped with temperature control

Press 3, 4 and 5 to switch between different control modes.

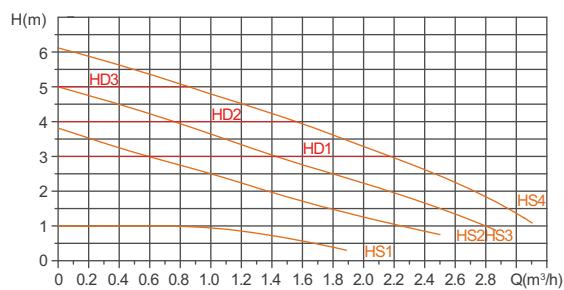
The 2 area on terminal box is LCD display and shows the current

## Technical parameters

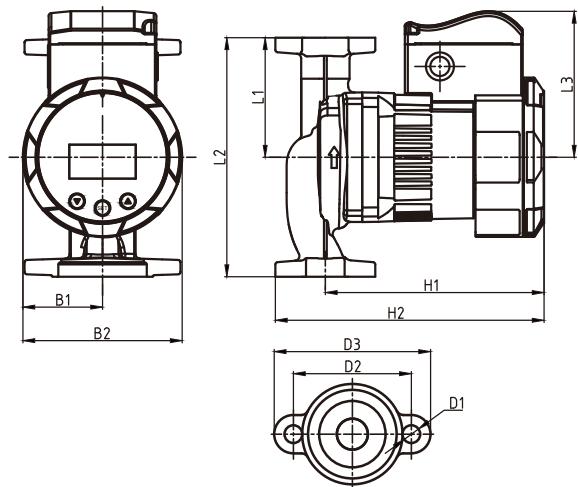
<b>Power supply voltage</b>	115V 50/60Hz, PE
<b>Motor protection</b>	No external protection required
<b>IP class</b>	IP42
<b>Insulation class</b>	H
<b>Humidity (RH)</b>	Max 95%
<b>System pressure</b>	1.0 MPa
<b>Compliance</b>	UL
<b>Environment temperature</b>	0~+40°C
<b>Temperature class</b>	TF110
<b>Liquid temperature</b>	-30~+110°C(Glycol up to 50%)

## Performance curve

Constant speed mode performance curve



## Dimensions



## Technical parameter

Power (W)	Model	Max. Flow (m³/h)	Max. Head (m)	Current (A)	Voltage/ Frequency	Material	Dimension(mm)									Package size (mmxmmxmm)	Wt.(kg)			
							110V 50/60Hz	Cast Iron	Copper	L1	L2	L3	B1	B2	H1	H2	D1	D2	D3	
45	FGD15-6F/162	2.7	6	0.26	●	●	●	81	162	99	54	108	148	182	12	80	106	230x175x190	2.4	1.6

## FGD 15-1.5B - High Efficiency Circulation Pump

### Applications

1. Domestic heating and hot water circulation systems
2. Hot water heater circulation systems

### Features

#### **Easy installation and operation**

Equipped with Self Adapting mode AUTO (default setting), pump runs once the power is connected and adapts its performance according to actual system needs.

Equipped with external temperature control, timing and pipeline flushing function.

#### **Low noise and high comfort**

Noise index: ≤42dB(A)

#### **Low energy consumption**

Power consumption lowest to 5W

#### **Multiple protection**

With over-current protection

#### **Quick release power plug**

Start-up and stop the pump quickly.



## FGD 15-1.5B control modes



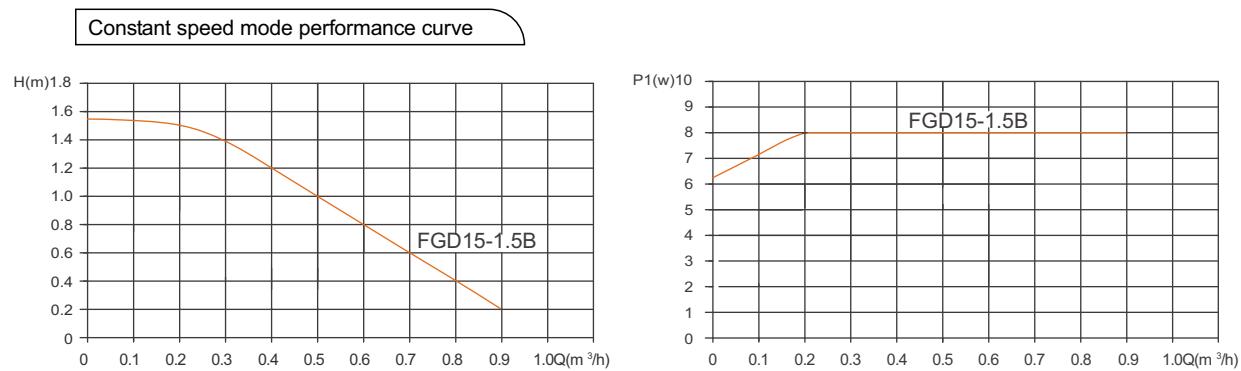
Position	Descriptions
1	Indicating constant speed running mode
2	Indicating Auto operation mode
3	Indicating temperature control mode
4	1. Power indicated 2. running (or stop) time indicated in timing mode
5	Running (or stop) hours set in timing mode for display
6	Running (or stop) minutes set in timing mode for display
7	Power unit shown under normal operation
8	1. Switch on various running modes 2. Increasing time in timing mode
9	Decreasing time in timing mode

Press 8 and 9 button to switch between different control modes.

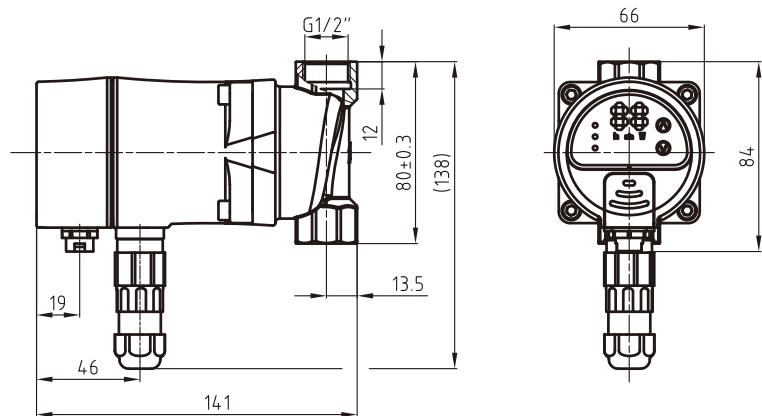
## Technical data

<b>Power supply voltage</b>	230V 50/60Hz, PE
<b>Motor protection</b>	No external protection required
<b>IP class</b>	IP42
<b>Insulation class</b>	F
<b>Humidity (RH)</b>	Max 95%
<b>System pressure</b>	1.0 MPa
<b>Compliance</b>	CE/ GS/ EMC/ LVD/RoHS/REACH
<b>Environment temperature</b>	0~+40°C
<b>Temperature class</b>	TF95
<b>Liquid temperature</b>	2~+110°C

## Performance curve



## Dimensions



## Performance parameters

Power (W)	Model	Max. Flow ( $m^3/h$ )	Voltage/Frequency		Material	Control Mode of Motor Pump					Package size (mmxmmxmm)	Wt.(kg)	
			230V	50/60Hz		Constant speed running mode	Auto operation mode	Temperature Control mode	Timing mode	Flushing Function			
8	FGD15-1.5B	0.9	●	●	●	●	●	●	●	●	180x115x150	1.2	1.0

# FGD 15-1.5 II BL - High Efficiency Circulation Pump

## Applications

1. Domestic heating and hot water circulation systems
2. Hot water heater circulation systems

## Features

### **Easy installation and operation**

Pump runs once the power is connected and works with maximal rotation speed all the time.

### **Low noise and high comfort**

Noise index: ≤42dB(A)

### **Low energy consumption**

Power consumption lowest to 5W

### **Multiple protection**

With over-current protection

### **Quick release power plug**

Start-up and stop the pump quickly.

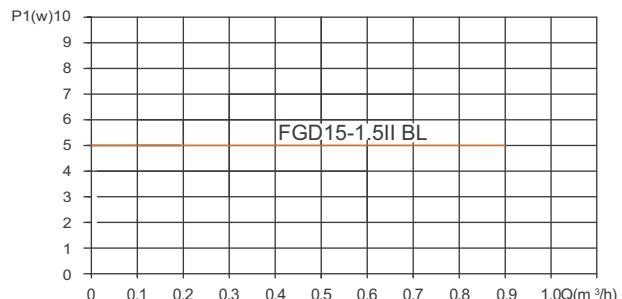
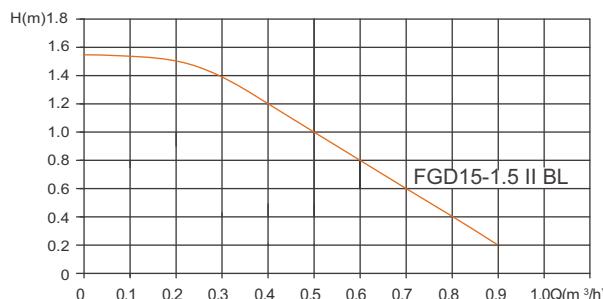


## Technical data

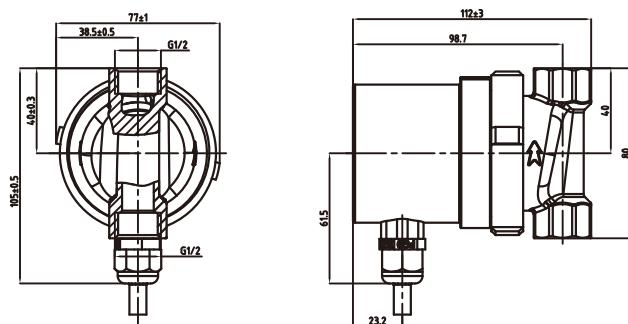
<b>Power supply voltage</b>	230V 50/60Hz, PE
<b>Motor protection</b>	No external protection required
<b>IP class</b>	IP44
<b>Insulation class</b>	H
<b>Humidity (RH)</b>	Max 95%
<b>System pressure</b>	1.0 MPa
<b>Compliance</b>	CE/ GS/ EMC/ LVD/RoHS/REACH
<b>Environment temperature</b>	0~+40°C
<b>Temperature class</b>	TF110
<b>Liquid temperature</b>	2~+110°C

## Performance curve

Constant speed mode performance curve



## Dimensions



## Technical parameter

Power (W)	Model	Max. Fb (m³/h)	Material	Control Mode of Motor Pump					Package size (mmxmmxmm)	Wt.(kg)	
				230V 50/60Hz	Copper	Constant speed running mode	Auto operation mode	Temperature Control mode	Timing mode	Flushing Function	
5	FGD15-1.5II BL	0.9	●	●	●	/	/	/	/	180x115x150	1.2 1.0







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