

DOMESTIC PUMP

INTELLIGENT FLOW FOR GOOD



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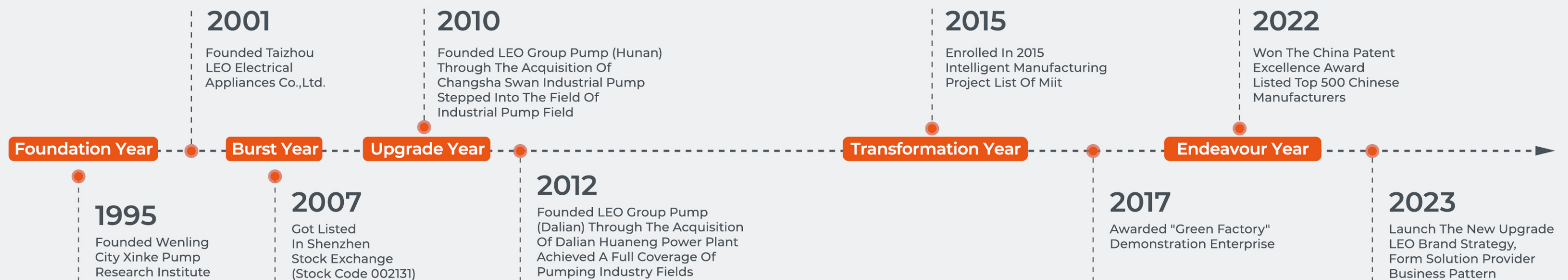
تهران، کیلومتر ۲۱ بزرگراه لشگری (جاده مخصوص کرج)

روبروی پالایشگاه نفت پارس، پلاک ۱۲



Intelligent Flow For Good

As a reliable partner on intelligent fluid solutions, LEO Pump is engaged in R&D, manufacturing, sales and service of all series pumps and systems. By covering the industry of building, municipal, water conservation, power, energy, OEM, domestic and garden, Leo is committed to bring the intelligent water into every industry field and application, helping people around the world enjoy high quality water life, government and business partners achieve green transformation, and promoting high quality economic growth and sustainable social development.



LEO WORLD



LEO IN NUMBERS

5

Production Bases

9

Overseas Subsidiaries

6,000,000⁺

Pumps Produced Yearly

160⁺

Countries

15,000⁺

Global Sales Outlets

500⁺

Million End-users Served

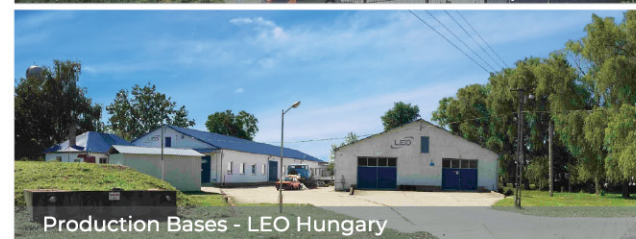
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QUALITY MANAGEMENT SYSTEM

- ISO9001:2015 Quality management system
- ISO14001:2015 Environmental management system Certificate
- ISO45001:2018 Occupational health & safety Management system certification
- ISO50001: 2018 Energy management system certificate
- CE, GS, UL, CSA and ETL qualification



ISO 9001



UL LISTED



ETL LISTED



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Check Valve

Available for AJm45, AJm60, AJm75H, AJm90H options.



Optional plastic impeller
(only power less than 1kw)

Application

- Can be used to transfer clean water or other liquids similar to water in physical and chemical properties
- Suitable for lifting water from the well, sprinkling irrigation in garden, pressure boosting of running water, and supporting equipment etc.

Pump

- Cast iron pump body and support under special anti-rust treatment
- Stainless steel impeller
- AISI 304 shaft
- Max. liquid temperature: +60°C
- Max. suction: +9 m

Motor

- Low noise&Long life bearing
- Motor with copper winding
- Built-in thermal protector for single phase motor
- Insulation class: F
- Enclosures class: IPX4
- Max.ambient temperature: +50 °C

Identification Codes

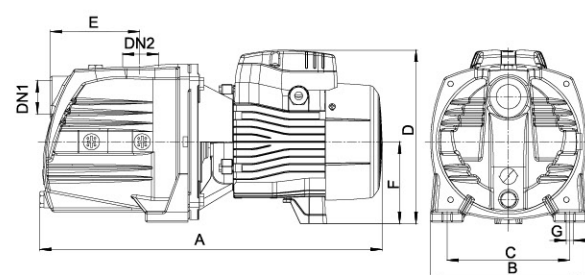
A J m 30 (H)

- High Head
- Power (x10W)
- Single Phase Motor
(Omitted for three-phase motor)
- Jet Pump
- LEO Product Style

Technical Data

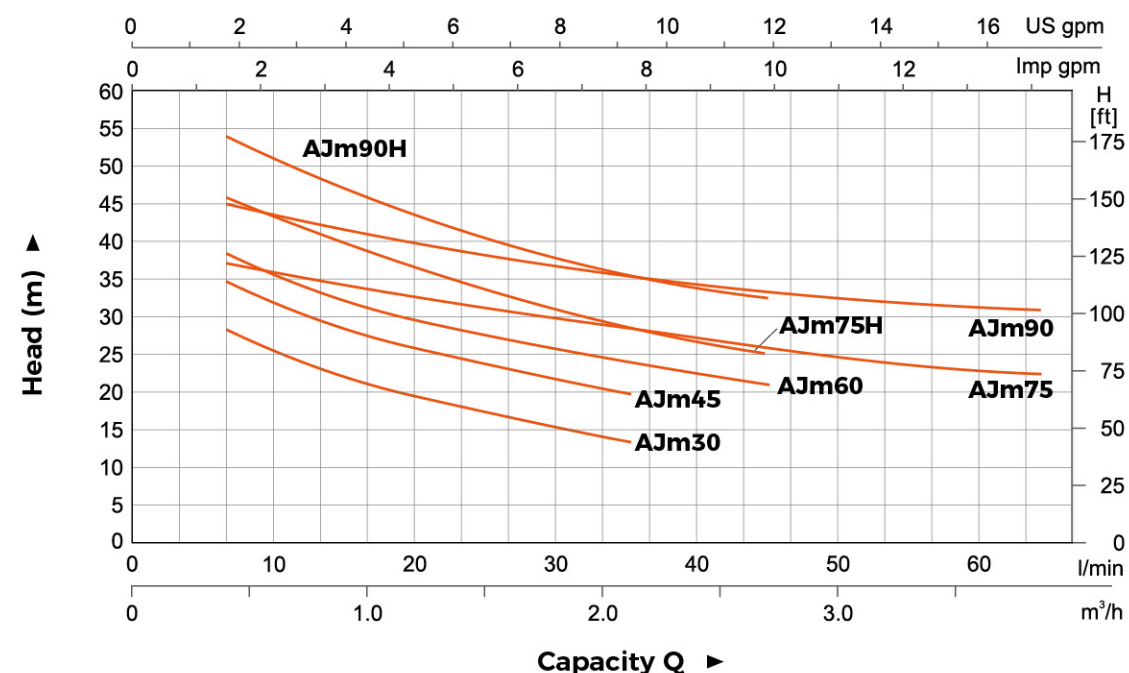
Model	Power		Q(m³/h)	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.8	3	3.3	3.6	3.9
	kW	HP															
AJm30	0.3	0.4	H (m)	33	30	26	22.5	20	18	16	14	-	-	-	-	-	-
AJm45	0.45	0.6		38	36	32	28	25	22	20	18	-	-	-	-	-	-
AJm60	0.6	0.8		44	41	37	33.5	31	28.5	26	24	22.5	21	-	-	-	-
AJm75	0.75	1.0		40	38	36	34.5	33	31.5	30	29	28	27	26	25	24	23
AJm75H	0.75	1.0		50	47	43	40	37	34.5	32	30	27.5	25	-	-	-	-
AJm90	0.9	1.2		48	46	44	42.5	41	39.5	38	36	35	34	33	32	31	30
AJm90H	0.9	1.2		60	57	53	49	46	43	40	37	35	33	-	-	-	-

Dimension



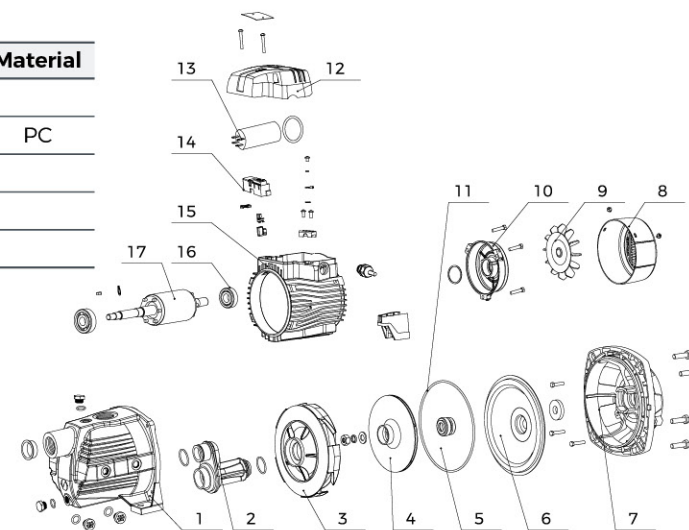
Model	DN1	DN2	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
AJm30	1"	1"	351	160	125	182	90	90	10
AJm45			351(377)	160	125	182	90(125)	90	10
AJm60			418(437)	190	150	213	114(145)	100	10
AJm75			418	190	150	213	114	100	10
AJm75H			418(437)	190	150	213	114(145)	100	10
AJm90			418	190	150	213	114	100	10
AJm90H			418(437)	190	105	213	114(145)	100	10

Hydraulic Performance Curves



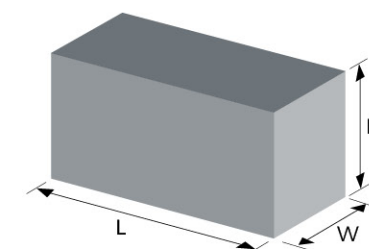
Material Table

No.	Part	Material	No.	Part	Material
1	Pump body	HT200	13	Capacitor	
2	Interval channel	PP-GF30	14	Wiring base assembly	PC
3	Water outlet cover	PP-GF30	15	Stator	
4	Impeller	PP-GF30	16	Bearing	
5	Mechanical seal		17	Rotor	
6	Bracket cover	AISI304			
7	Bracket	ADC12			
8	Fan cover	PP			
9	Fan	PP-GF10			
10	End plate	ADC12			
11	O-ring	NBR			
12	Cover box	PP-GF20			



Package Information

Model	CW (Kgs)	L (mm)	W (mm)	H (mm)	Quantity (PCS/20'TEU)
AJm30	8.5	390	185	215	1740
AJm45	9.5	390	185	215	1740
AJm60	13.9	455	215	245	1170
AJm75	15	455	215	245	1170
AJm75H	15	455	215	245	1170
AJm90	16	455	215	245	1170
AJm90H	16	455	215	245	1170





Application

- Can be used to transfer clean water or other liquids similar to water in physical and chemical properties
- Suitable for lifting water from the well, sprinkling irrigation in garden, pressure boosting of running water, and supporting equipment etc.

Pump

- Cast iron pump body and support under special anti-rust treatment
- Stainless steel impeller
- AISI 304 shaft
- Max. liquid temperature: +60°C
- Max. suction: +9 m

Motor

- Low noise&Long life bearing
- Motor with copper winding
- Built-in thermal protector for single phase motor
- Insulation class: F
- Enclosures class: IPX4
- Max.ambient temperature: +50 °C

Identification Codes

A J m 110 (L)

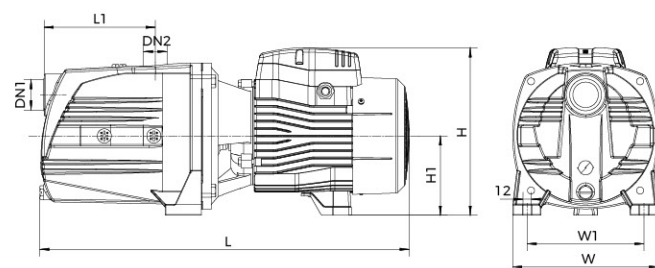
- Large Flow
- Power (x10W)
- Single Phase Motor (Omitted for three-phase motor)
- Jet Pump
- LEO Product Style

Technical Data

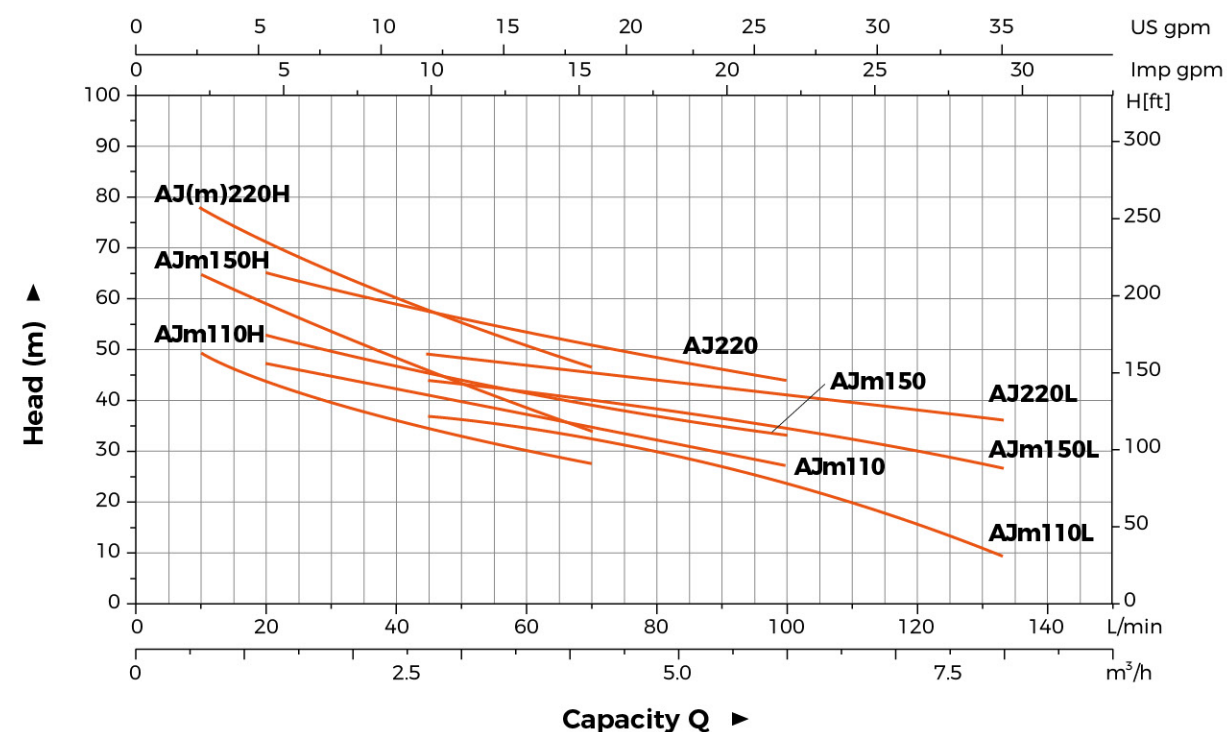
Model	Power		Q(m³/h) Q(l/min)	0	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3	3.6	4.2	4.8	6.0	7.5	8.4
	kW	HP		0	10	15	20	25	30	35	40	45	50	60	70	80	100	120	140
AJm110H	1.1	1.5	H (m)	60	50	46	44	42	40	38	36	34	32	30	28	-	-	-	-
AJm150H	1.5	2		72	65	61	59	57	54	51	48	45	43	39	34	-	-	-	-
AJ(m)220H	2.2	3		85	78	75	71	68	65	63	60	57.5	55	51.5	46	-	-	-	-
AJm110	1.1	1.5		55	52	49	48	46	45	43	42	41	40	37	35	33	27	-	-
AJm150	1.5	2		60	56	55	53	52	49	48	46	45	44	42	40	36	33	-	-
AJ220	2.2	3		68	67.5	67	66	65	63	61	59	57	56	54	51	48	44	-	-
AJm110L	1.1	1.5		47	45	44	43	42	41	40	39	38	36	34	32	30	24	17	9
AJm150L	1.5	2		54	53	52	51	49	48	46	45	44	43	42	39	38	34	31	26
AJ220L	2.2	3		55	54	53	52	51.5	51	50.5	49.5	49	48	47	45	44	41	38	36

Dimension

Model	DN1	DN2	L (mm)	W (mm)	H (mm)	L1 (mm)	W1 (mm)	H1 (mm)
AJm110H	1 1/4"	1 1/4"	512	206	236	153	165	112
AJm150H			512	206	236	153	165	112
AJ(m)220H			512	206	236	153	165	112
AJm110			512	206	236	153	165	112
AJm150	1 1/2"	1 1/2"	512	206	236	153	165	112
AJ220			512	206	236	153	165	112
AJm110L			512	206	236	153	165	112
AJm150L			512	206	236	153	165	112
AJ220L	1 1/2"	1 1/2"	512	206	236	153	165	112
AJ220L			512	206	236	153	165	112

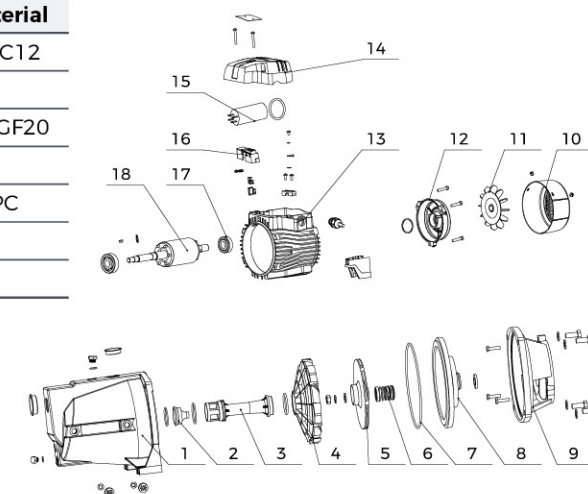


Hydraulic Performance Curves



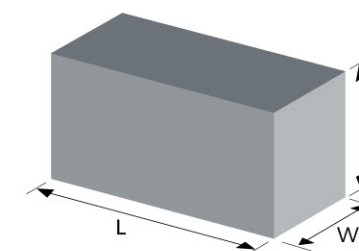
Material Table

No.	Part	Material	No.	Part	Material
1	Pump body	HT200	12	End plate	ADC12
2	Nozzle	PP-GF30	13	Stator	
3	Lance tube	PP-GF30	14	Cover box	PP-GF20
4	Water outlet cover	PP-GF30	15	Capacitor	
5	Impeller	PP-GF30	16	Wiring base assembly	PC
6	Mechanical seal		17	Bearing	
7	O-ring	NBR	18	Rotor	
80	Bracket cover	HT200			
9	Bracket	ADC12			
10	Fan cover	PP			
11	Fan	PP-GF10			

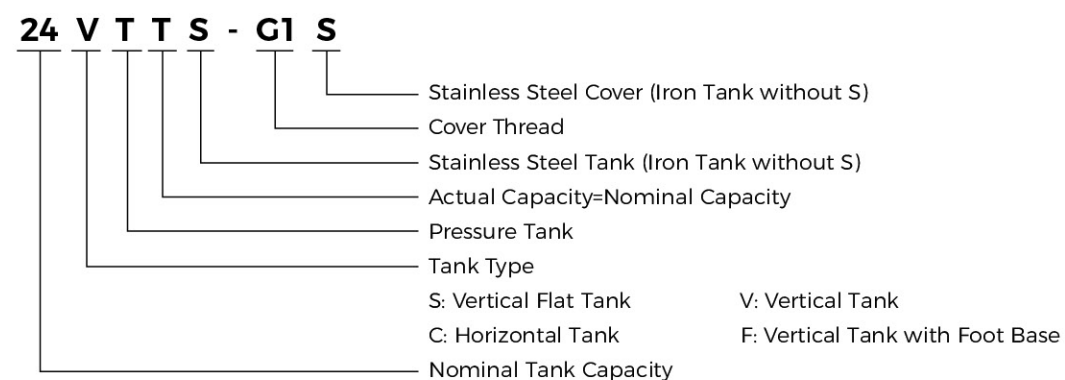


Package Information

Model	GW (Kgs)	L (mm)	W (mm)	H (mm)	Quantity (PCS/20' TEU)
AJm110	24.5	572	225	259	816
AJm110H	24.5	572	225	259	816
AJm110L	24.5	572	225	259	816
AJm150	25.4	572	225	259	816
AJm150H	25.4	572	225	259	816
AJm150L	25.4	572	225	259	816
AJ(m)220H	26.0	572	225	259	816



Identification Codes



Tank



Model	Max. Pressure (bar)	Nominal Capacity (L)	Actual Capacity (L)	Membrane	Max. Temp (°C)	Connection
24ST	8	24	20	Epdm	60	G1"
24STT	8	24	24	Epdm	60	G1"



Model	Max. Pressure (bar)	Nominal Capacity (L)	Actual Capacity (L)	Membrane	Max. Temp (°C)	Connection
2VT	8	2	2	Epdm	60	G1/2"
4VT	8	4	4	Epdm	60	G1"
5VT	8	5	5	Epdm	60	G1"
8VT	8	8	8	Epdm	60	G1"
19VT	8	19	18	Epdm	60	G1"
24VT	8	24	20	Epdm	60	G1"
24VTT	8	24	24	Epdm	60	G1"



Model	Max. Pressure (bar)	Nominal Capacity (L)	Actual Capacity (L)	Membrane	Max. Temp (°C)	Connection
19CT	8	19	18	Epdm	60	G1"
24CT	8	24	20	Epdm	60	G1"
24CTT	8	24	24	Epdm	60	G1"

*For capacity < 50L, pressure gauge is optional.
For capacity ≥ 50L, pressure gauge is standard.

Tank



Model	Max. Pressure (bar)	Nominal Capacity (L)	Actual Capacity (L)	Membrane	Max. Temp (°C)	Connection
50CT	8	50	36	Epdm	60	G1"
50CTT	8	50	50	Epdm	60	G1"
60CTT	8	60	60	Epdm	60	G1"
100CT	8	100	80	Epdm	60	G1"
100CTT	8	100	100	Epdm	60	G1"

Model	Max. Pressure (bar)	Nominal Capacity (L)	Actual Capacity (L)	Membrane	Max. Temp (°C)	Connection
50FT	8	50	36	Epdm	60	G1"
50FTT	8	50	50	Epdm	60	G1"
60FTT	8	60	60	Epdm	60	G1"
100FT	8	100	80	Epdm	60	G1"
100FTT	8	100	100	Epdm	60	G1"
200FTT	8	200	200	Butyl	60	G1½"
300FTT	8	300	300	Butyl	60	G1½"
500FTT	8	500	500	Butyl	60	G1½"

*For capacity < 50L, pressure gauge is optional.
For capacity ≥ 50L, pressure gauge is standard.

3-Way / 5-Way



Model	Connection	Length
3TA	G1"	70 , 80
5TA	G1"	80 , 90
5TB	G1"	80 , 90

Foot Valve



Model	Connection
FVA1	1"
FVA1.25	1¼"
FVA1.5	1½"
FVA2	2"
FVA3	3"

● Stainless Steel mesh
● Can be used as a check valve

Accessories

Flexible Hose



Model	FH12.8-01(L=128mm)	FH44-03(L=440mm)
Inlet	G3/4"	G1"
Outlet	G3/8"	G1"
Material	Stainless steel wire	
Operating Limits	Fluid temperature up to 35°C Max. ambient temperature 40°C	

Filter



Model	WF-01B	WF-02B
Inlet/Outlet	1" x 1"	1" x 1"
Capacity	1L	2L
Max. Pressure	5 bar	5 bar
Operating Limits	Fluid temperature up to 35°C Max. ambient temperature 40°C	

Pressure Gauge



Axial

Radial

PG - P 40 A

A: Axial; R: Radial
Size (40mm, 50mm, 60mm)
P: Plastic; S: Iron sheet; SS: Stainless steel
Pressure gauge

- Two connection types: (1) G1/4" (2) M10x1
- For 40mm gauge, the scale: 0 - 6 bar
- For 50mm gauge, the scale: 0 - 10 bar or 0 - 6 bar
- Back/bottom connection

Automatic Pump Controller



PS-04A

Rated Voltage	110-120VAC	220-240VAC	110-240VAC
Rated Frequency	50-60Hz		
Max. Current	10(6)A		
Max. Power(P1)	0.55kW(110-120VAC)		1.1kW(220-240VAC)
Starting Pressure	1.0bar, 1.5bar, 2.2bar		
Max. Working Pressure	10bar		
Screw Size	R1", NPT1"; G1", G1-1/4"; G1-1/2"		
Protection Class	IP65		
Max. Working Temperature	60 °C		



PS-04B

Rated Voltage	110-120VAC	220-240VAC	110-240VAC
Rated Frequency	50-60Hz		
Max. Current	10(6)A		
Max. Power(P1)	0.55kW(110-120VAC)		1.1kW(220-240VAC)
Starting Pressure	1.2bar, 1.5bar, 2.2bar		
Max. Working Pressure	10bar		
Screw Size	R1"		
Protection Class	IP65		
Max. Working Temperature	60 °C		



PS-04C

Rated Voltage	110-120VAC	220-240VAC	110-240VAC
Rated Frequency	50-60Hz		
Max. Current	10(6)A		
Max. Power(P1)	0.55kW(110-120VAC)		1.1kW(220-240VAC)
Starting Pressure	1.2bar, 1.5bar, 2.2bar		
Max. Working Pressure	10bar		
Screw Size	G1"		
Protection Class	IP54		
Max. Working Temperature	60 °C		

* 1 bar=14.50PSI

Automatic Pump Controller



PS-04D

Rated Voltage	110-240VAC	220-240VAC	380VAC
Rated Frequency	50-60Hz		
Max. Current	30(16)A		
Max. Power(P1)	1.1kW	2.2kW	4.0kW
Starting Pressure	1.2bar, 1.5bar, 2.2bar		
Max. Working Pressure	10bar		
Screw Size	G1", G1-1/4", G1-1/2", NPT1"		G1-1/2"
Protection Class	IP65		
Max. Working Temperature	60 °C		



PS-04E

Rated Voltage	110-120VAC	220-240VAC	110-240VAC
Rated Frequency	50-60Hz		
Max. Current	30(16)A		
Max. Power(P1)	1.1kW(110-120VAC)	2.2kW(220-240VAC)	
Starting Pressure	0.8bar - 6.7bar		
Max. Working Pressure	8bar		
Screw Size	G1"		
Protection Class	IP65		
Max. Working Temperature	60 °C		



PS-04E-1

Rated Voltage	110-120VAC	220-240VAC	110-240VAC
Rated Frequency	50-60Hz		
Max. Current	30(16)A		
Max. Power(P1)	1.1kW(110-120VAC)	2.2kW(220-240VAC)	
Starting Pressure	1.5bar, 2.2bar		
Max. Working Pressure	8bar		
Screw Size	G1"		
Protection Class	IP65		
Max. Working Temperature	60 °C		

* 1 bar=14.50PSI

Automatic Pump Controller



PS-04T

Rated Voltage	110-120VAC	220-240VAC	110-240VAC
Rated Frequency	50-60Hz		
Max. Current	10(6)A		
Max. Power(P1)	0.55kW(110-120VAC)	1.1kW(220-240VAC)	
Starting Pressure	1.2 - 2.5bar		
Max. Working Pressure	10bar		
Screw Size	G1"		
Protection Class	IP65		
Max. Working Temperature	60 °C		



PS-04F

Rated Voltage	220-240V		
Rated Frequency	50-60Hz		
Max. Current	16(10)A		
Max. Power(P1)	1.8kW(220-240VAC)		
Starting Pressure	0.5-3bar		
Max. Working Pressure	10bar		
Screw Size	G1"		
Protection Class	IP65		
Max. Working Temperature	60 °C		

Pressure Switch



PS-02A

Rated Voltage	110-120VAC	220-240VAC
Frequency	50/60 Hz	
Max. Current	20A	12A
Max. Power(P1)	1.6kW	1.9kW
Min. Cut-in	1bar	
Max. Cut-out	7bar	
Starting/Stopping Pressure	bar: 1.0/2.1; 1.4/2.8; 2.1/3.5; 2.8/4.2; 3.5/4.9; 4.9/7.0	
Screw Size	Female: NPT1/4, ZG1/4 Male: NPT1/4, ZG1/4 Female revolving connector: G1/4, G3/8	
Protection Class	IP20	
Max. Working Temperature	60°C	

* Max. working pressure=Max. cut out*1.5

Pressure Switch



PS-02B

Rated Voltage	110-120VAC	220-240VAC
Frequency	50/60 Hz	
Max. Current	20A	16A
Max. Power(P1)	1.6kW	2.6kW
Min. Cut-in	1bar	
Max. Cut-out	12bar	
Starting/Stopping Pressure	bar: 1.4/2.8; 2.1/3.5; 6.3/8.7; 9.6/12	
Screw Size	Female: NPT1/4, G1/4 Male: ZG1/4, M14 Female revolving connector: G1/4	
Protection Class	IP20	
Max. Working Temperature	60°C	



PS-02C

Rated Voltage	110-120VAC	220-240VAC	400VAC
Frequency	50/60 Hz		
Max. Current	16(8)A		
Max. Power(P1)	0.6kW	1.3kW	4.0kW
Min. Cut-in	1bar		
Max. Cut-out	5.5bar		
Starting/Stopping Pressure	bar: 1.2/2.4; 1.4/2.8; 1.5/3.0; 2.0/3.5; 3.5/4.9		
Screw Size	Female: NPT1/4, G1/4, Male: NPT1/4, G1/4, ZG1/4, Female revolving connector: G1/4, G3/8		
Protection Class	IP44		
Max. Working Temperature	60°C		



PS-02D

Rated Voltage	110-120VAC	220-240VAC
Frequency	50/60 Hz	
Max. Current	12A	
Max. Power(P1)	1.0kW	1.9kW
Min. Cut-in	1.4bar	
Max. Cut-out	6.9bar	
Starting/Stopping Pressure	bar: 1.4/2.8; 2.1/3.4; 2.8/4.1; 3.4/4.8	
Screw Size	Female: G1/4, Male: ZG1/4, G1/4, NPT1/4 Female revolving connector: G1/4, G3/8	
Protection Class	IP20	
Max. Working Temperature	60°C	

* Max. working pressure=Max. cut out*1.5

Capacitor



2 wires



2(4) terminals

Capacity(μF)	Type	Diameter(mm)	Length (mm)
6	2 wires	32	66
8	2 wires	32	66
8	4 terminals	35	72
10	2 wires	34	62
10	4 terminals	35	72
12	2 wires	40	73
16	2 wires	42	71
16	4 terminals	42	73
20	2 wires	42	74
20	4 terminals	42	74
25	2 wires	42	82
35	4 terminals	42	70
40	2 wires	42	82
40	4 terminals	45	73
42.5	2 terminals	51	100
45	2 terminals	51	100
50	2 terminals	51	100

Float Switch



FLO-01B



FLO-01B(With balance block)

Model	FLO-01B	FLO-01B(With balance block)
Specification	16(8)A 125/250V	
Cable	H07RN-F/8-F 3G1.0mm2x0.55m/0.65m/0.75m/2m/3m/5m/10m	
Lifetime	50000 cycles	
IP Protection	IP X8	
Operating Limits	Fluid temperature up to 35°C Max. ambient temperature 40°C	