

Integrated Filling System

DF600 PlusII

3 years warranty

304 SS Housing



Features

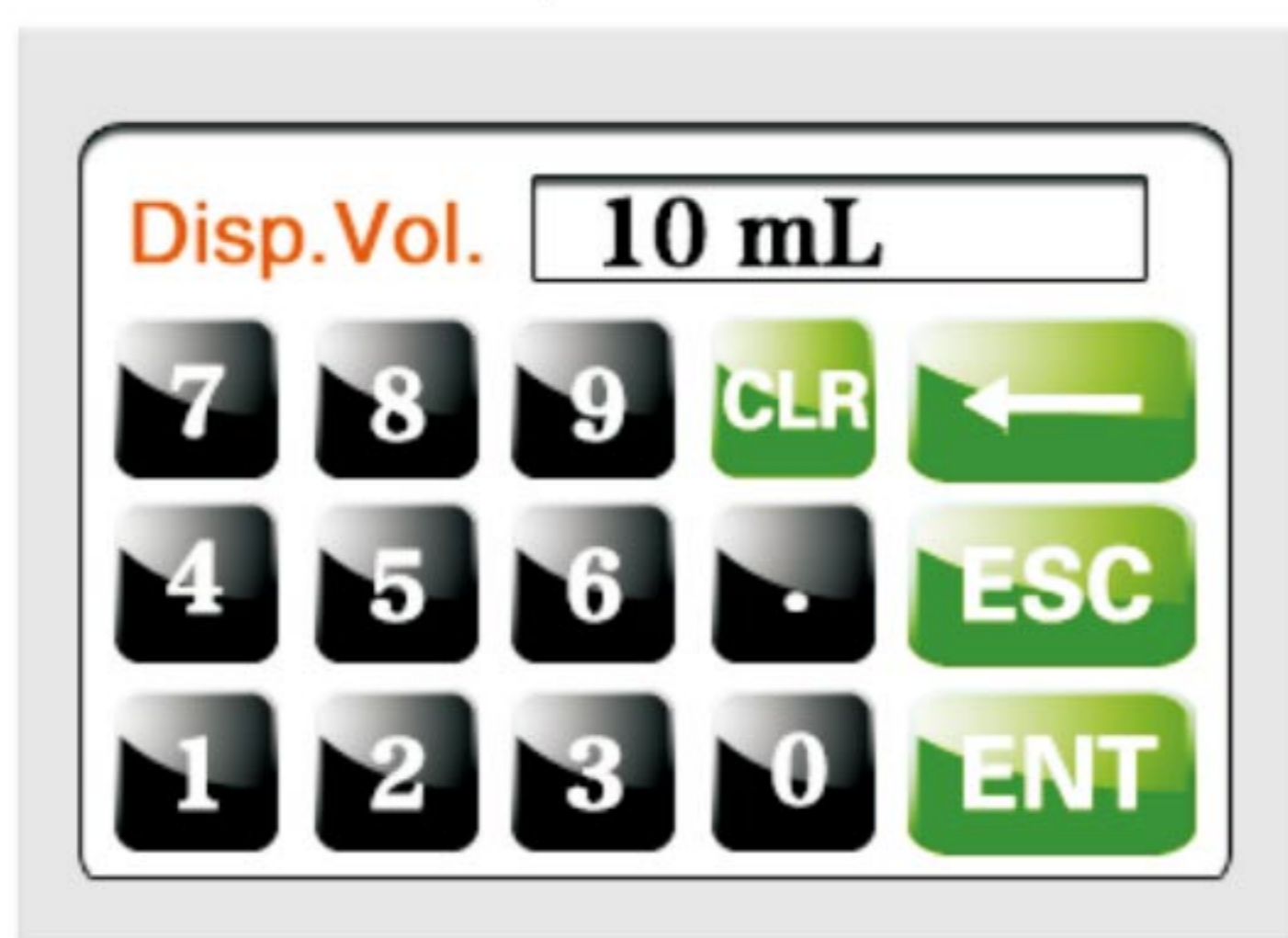
- Integrated design, one controller can control 8 groups (total 32) filling units.
- It can support the production filling line, store 30 commonly used filling modes.
- Each filling unit can independently receive stop filling signal when bottle absent.

Model Number

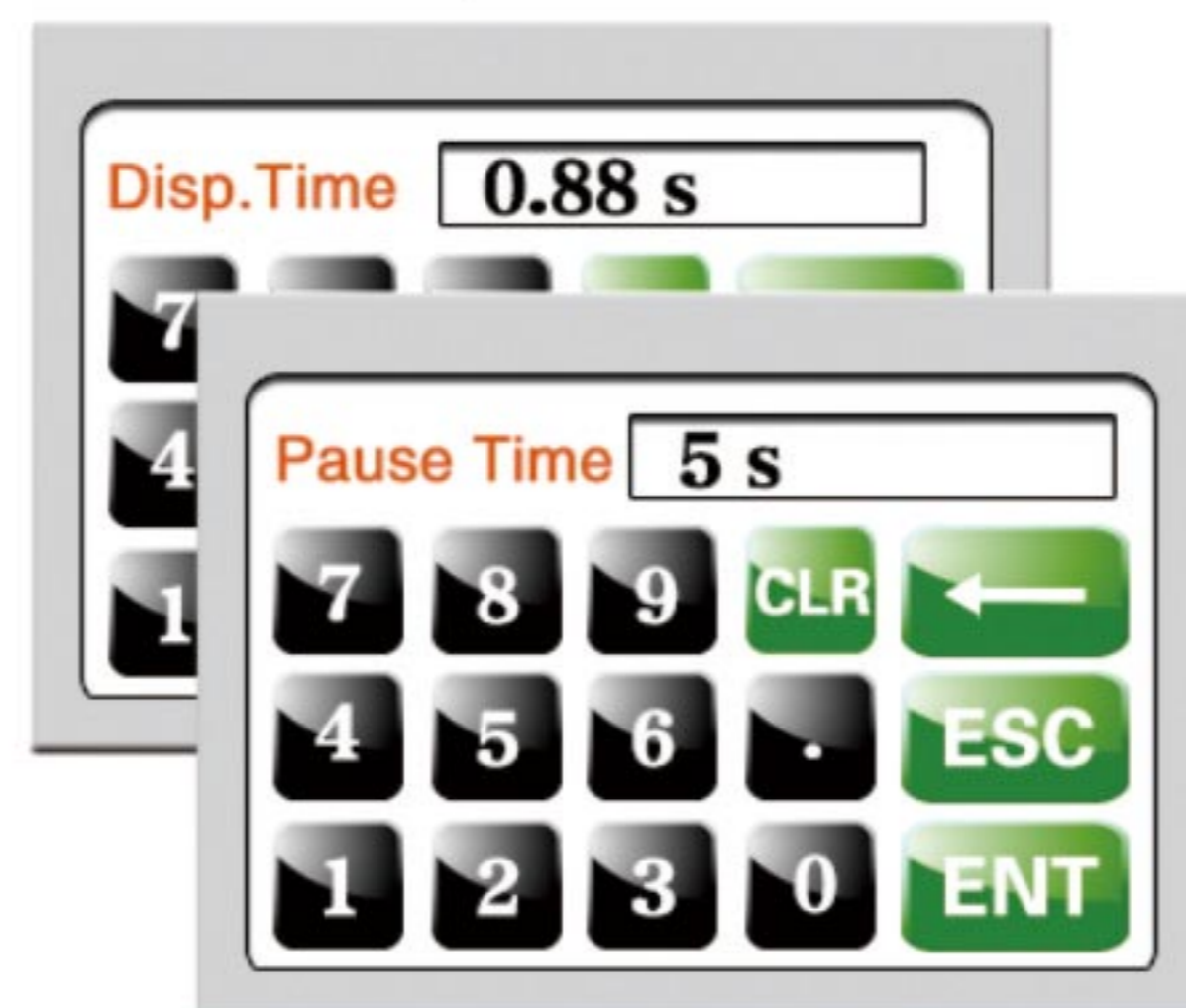
- DF600 Plus, DF600 PlusII

Typical Application

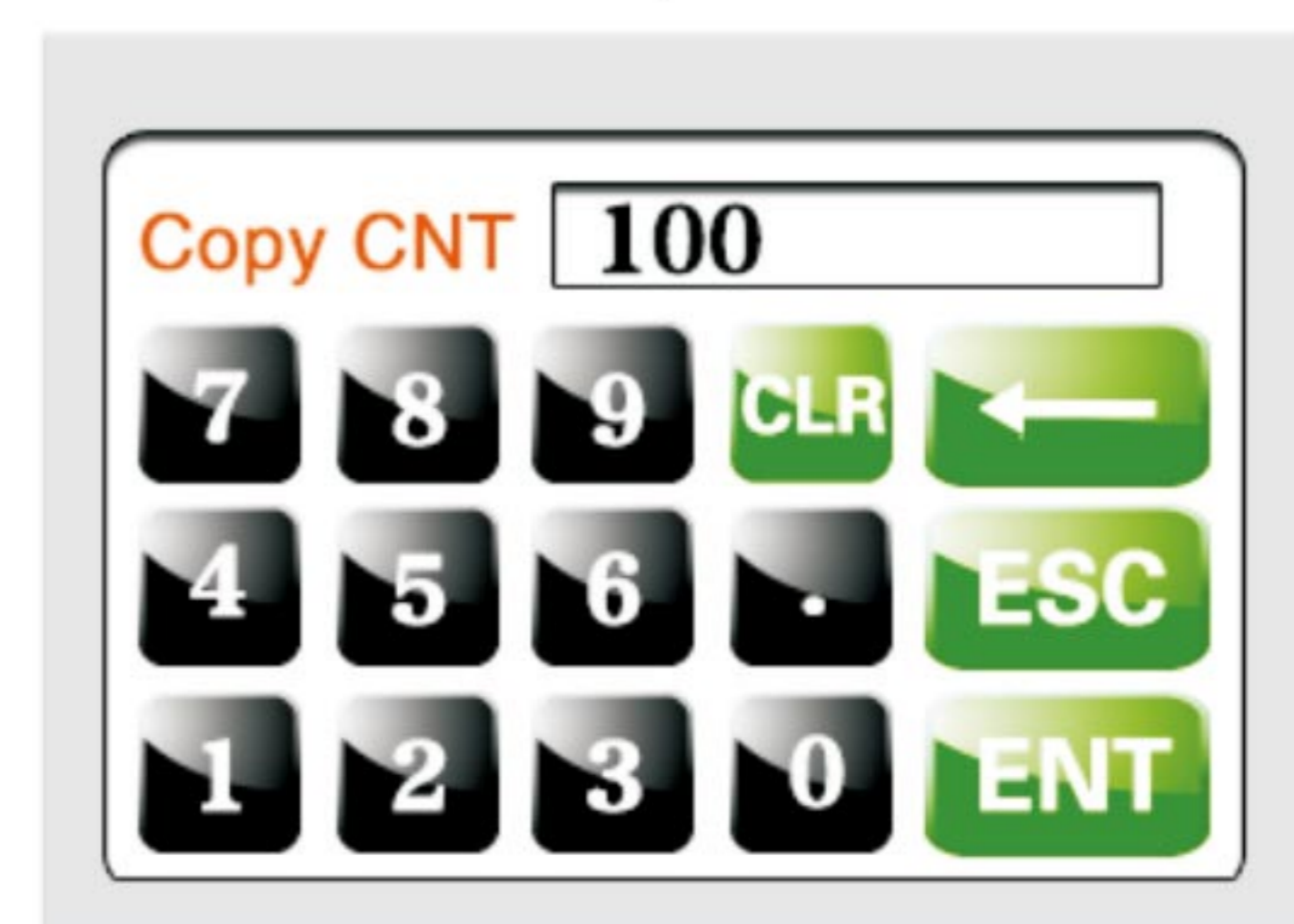
- Pharmaceutical, health product filling, diagnostic reagent dispensing.
- Food, beverage filling.
- Cosmetic filling.



Dispensing volume interface



Dispensing time and pause time interface



Copy numbers interface



Integrated Filling System

DF600 PlusIV



DF350 Plus



Product Introduction

DF600 Plus series closed-loop stepper motor control series is integrated type intelligent filling system with high precision and low pulsation driven by closed-loop stepper motor. It is composed by control unit and integrated type filling units, each group have 8 filling units, total 32 filling units. This system use imported 4.3" industrial grade true color display with touch screen control, can preset filling volume, filling time, pause time, copy numbers and back-suction angle. Dynamics display working status, filling data, setting parameter, system configuration display at the same screen; with intelligent calibration and online micro adjust function. Can connect foot pedal and receive switch signal, realize long-distance control. With motor working status output signal, can let other equipment realtime monitor the current filling status of peristaltic pump. This filling system use closed-loop stepper motor, and high precision, low pulsation pump head to make the filling precision higher, up to 0.1%-0.6%, make the micro volume and big volume high precision filling come true.

Model Number

- | DF350 Plus
- | DF600 PlusIII
- | DF600 PlusIV

Typical Application

- | Pharmaceutical, health product filling, diagnostic reagent dispensing.
- | Food, beverage filling.
- | Cosmetic filling.



Integrated Filling System

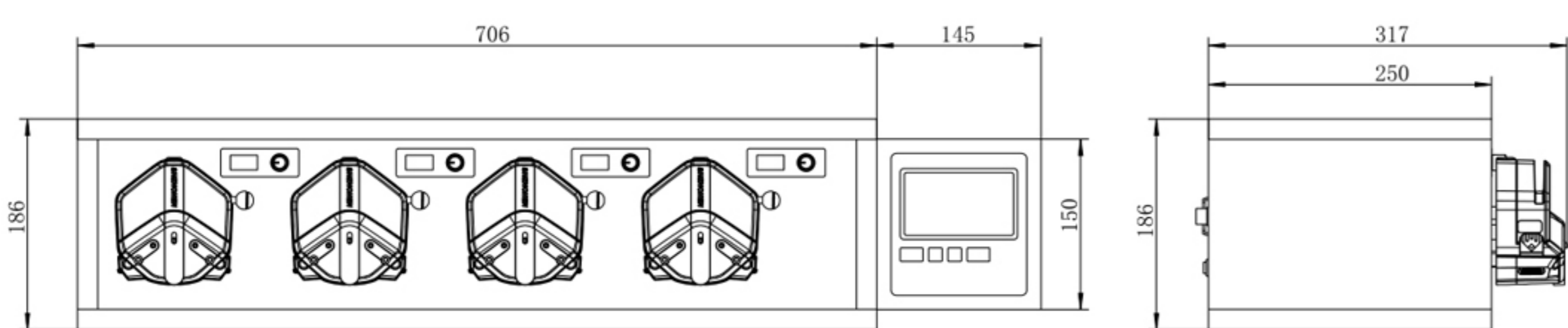
Product Composition and Flow Rate Range

Drive	Pump Head	Flow Rate (mL/min)	Motor Type	Drive Dimension (L×W×H)	Power Consumption	Drive Weight
DF600 Plus	YZ1515x	0.007~2280	Stepper motor	706×250×186mm	Each Unit < 50W	21.8kg
	YZ2515x	0.17~1740				
DF600 PlusII	EasyPump	0.0053-3100	Closed-loop stepper motor	706×250×186mm	Each Unit < 80W	21.8kg
	DZ25-3L	0.211-3600				
DF600 PlusIII	DZ25-6L	0.3-6000		910×290×212mm	Each Unit < 180W	41.45kg
DF350 Plus	DY15	0.01-3337		910×290×212mm	Each Unit < 180W	41.45kg
	DY25	0.42-4340				
DF600 PlusIV	YZ35	0.69-12000		1056×310×248m	Each Unit < 300W	58.6kg

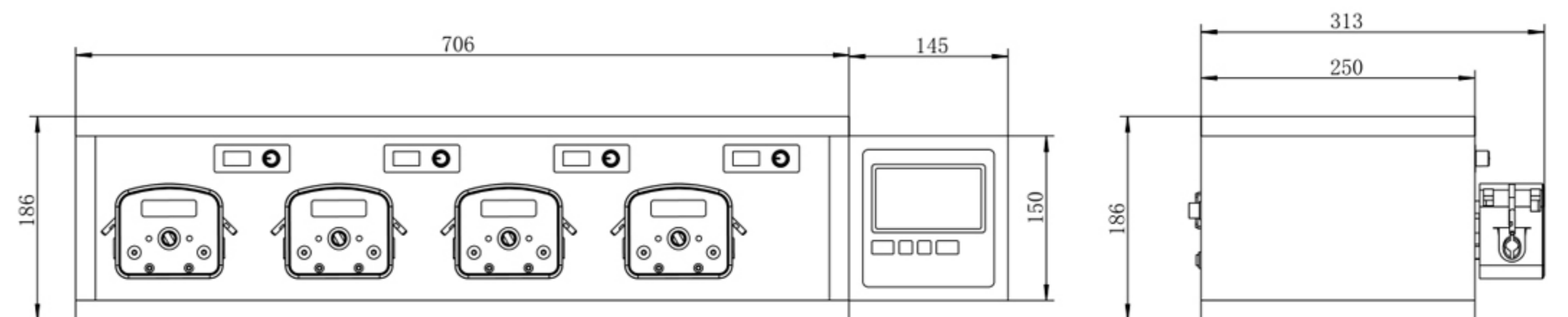
Technical Specifications

Speed range	CF350 Plus/DF350 Plus	0.1-350 rpm	Control method	Touch screen and mechanical keypad
	CF600 Plus/DF600 Plus/CF600 PlusII/		Keypad lifetime	300,000 times
	DF600 PlusII/CF600 PlusIII/DF600 PlusIII/		Start/stop, direction signal	Passive switch signal, such as foot pedal switch; Active switch signal: 5-24V universal
Filling volume range	CF PlusIV/DF600 PlusIV	0.1-600 rpm	Communication interface	RS485 communication Modbus protocol(RTU mode)
Filling time range	DF600 Plus	0.1-9999.99 s	Output interface	Output motor working status (Open-Collector output)
Pause time range	DF600 Plus	0.5-9999.99 s		
Filling volume resolution		0.01 mL	Power supply	AC 220V±10% 50Hz/60Hz (standard) AC 110V±10% 50Hz/60Hz (optional)
Time resolution		0.01 s		
Copy numbers		1-9999, '0' means unlimited	Condition temperature	0-40°C
Back suction angle		0-360°	Relative humidity	< 80%
Filling accuracy		< ±0.5%		
Display		4.3" industrial grade true color LCD screen		

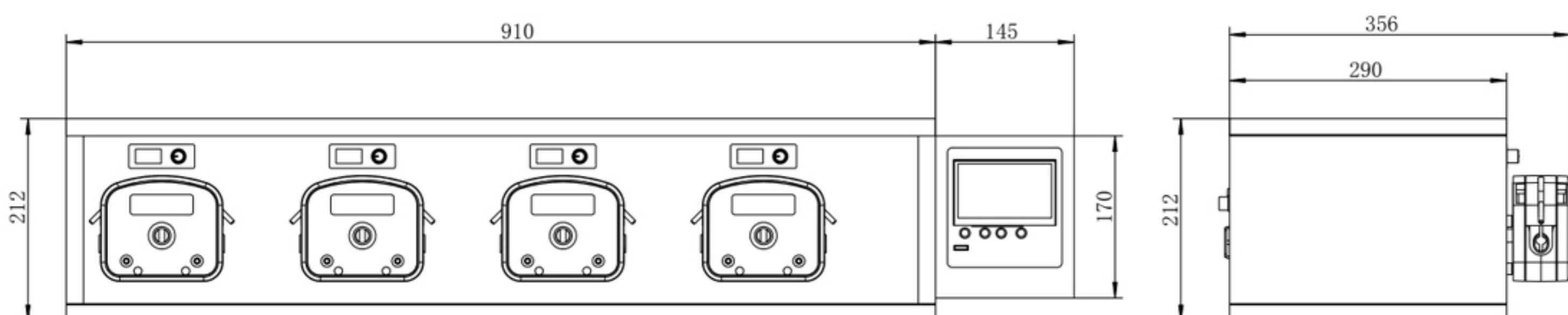
Dimension Drawing(Unit: mm)



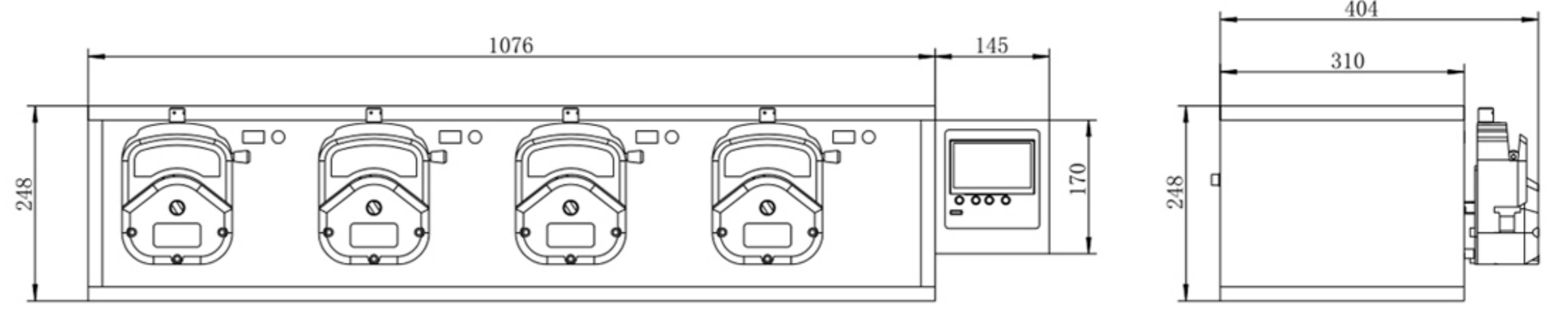
DF600 PlusII 4FU+EasyPump



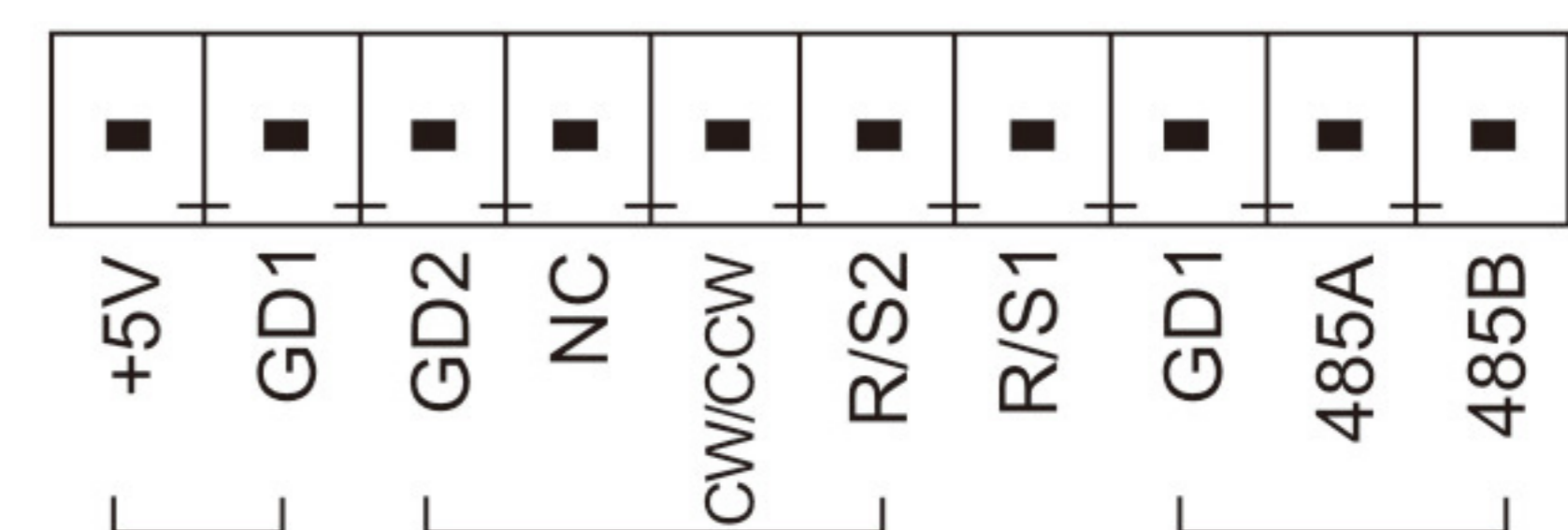
DF600 PlusII 4FU+SZ25-3L



DF600 PlusIII 4FU+DZ25-6L



DF600 PlusIV 4FU+YZ35



DF600plus External Control Schematic Diagram



Product Composition and Flow Rate Range						
Drive	Pump Head	Pump Head Material	Tube Clamp Material	Tubing		(Motor Speed 0.1~600rpm) Flow Rate mL/min
				Tubing Size	ID×Wall Thickness	
DF600 Plus CF600 Plus	YZ1515x	PSF PPS	—————	13 [#]	0.8×1.6 (mm)	0.07~42
				14 [#]	1.6×1.6 (mm)	0.27~162
				19 [#]	2.4×1.6 (mm)	0.55~330
				16 [#]	3.1×1.6 (mm)	0.82~492
				25 [#]	4.8×1.6 (mm)	1.7~1020
				17 [#]	6.4×1.6 (mm)	2.9~1740
	YZ2515x	PSF PPS	—————	18 [#]	7.9×1.6 (mm)	3.8~2280
				15 [#]	4.8×2.4 (mm)	1.7~1020
DF600 PlusII CF600 PlusII	EasyPump I/III	—————	—————	24 [#]	6.4×2.4 (mm)	2.9~1740
				13 [#]	0.8×1.6 (mm)	0.0053~32
				14 [#]	1.6×1.6 (mm)	0.027~162
				19 [#]	2.4×1.6 (mm)	0.055~330
				16 [#]	3.1×1.6 (mm)	0.093~560
				25 [#]	4.8×1.6 (mm)	0.197~1180
	EasyPump II/IV	—————	—————	17 [#]	6.4×1.6 (mm)	0.333~2000
				18 [#]	7.9×1.6 (mm)	0.430~2580
				15 [#]	4.8×2.4 (mm)	0.180~1080
				24 [#]	6.4×2.4 (mm)	0.273~1640
	EasyPump V/VI	—————	—————	35 [#]	7.9×2.4 (mm)	0.383~2300
				36 [#]	6.4×2.4 (mm)	0.517~3100
				13 [#]	0.8×1.6 (mm)	0.0053~32
				14 [#]	1.6×1.6 (mm)	0.027~162
				19 [#]	2.4×1.6 (mm)	0.055~330
	DZ25-3L	Aluminum alloy/PPS	PP	16 [#]	3.1×1.6 (mm)	0.093~560
25 [#]				4.8×1.6 (mm)	0.197~1180	
15 [#]				4.8×2.4 (mm)	2.11~1264	
24 [#]				6.4×2.4 (mm)	3.85~2310	
DF600 PlusIII CF600 PlusIII	DZ25-6L	Aluminum alloy/PPS	PP	35 [#]	7.9×2.4 (mm)	5.08~3050
				36 [#]	4.8×2.4 (mm)	6~3600
				15 [#]	4.8×2.4 (mm)	3~1800
				24 [#]	6.4×2.4 (mm)	5.5~3300
DF600 PlusIV CF600 PlusIV	YZ35-PPS	Aluminum alloy/PPS	PP	36 [#]	4.8×2.4 (mm)	10~6000
				26 [#]	6.4×3.3 (mm)	6.9~4200
				73 [#]	9.6×3.3 (mm)	12.3~7400
DF350 Plus CF350 Plus	Aluminum alloy	DY15	PP	82 [#]	12.7×3.3 (mm)	20~12000
				13 [#]	0.8×1.6 (mm)	0.1~48
				14 [#]	1.6×1.6 (mm)	0.6~223
				19 [#]	2.4×1.6 (mm)	1.3~448
				16 [#]	3.1×1.6 (mm)	2~723
				25 [#]	4.8×1.6 (mm)	4.7~1626
	Aluminum alloy	DY25	PP	17 [#]	6.4×1.6 (mm)	6.4~2230
				18 [#]	7.9×1.6 (mm)	9.5~3337
				15 [#]	4.8×2.4 (mm)	4.2~1480
				24 [#]	6.4×2.4 (mm)	7.6~2670
				35 [#]	7.9×2.4 (mm)	10~3600
				36 [#]	9.6×2.4 (mm)	12.4~4340



Filling Volume Reference (Media is water)								
Drive	Pump Head	Tubing	Filling Volume (mL)	Filling Time (s)	Accuracy (± %)	Output (pcs/min)	Motor Speed (rpm)	
DF600 PlusII CF600 PlusII	EasyPump	13 [#]	0.4	1.2	0.8	27	377.36	
		13 [#]	1	2.5	0.5	17	452.83	
		14 [#]	2	1	0.5	30	444.44	
		19 [#]	5	1.2	0.5	27	454.55	
		16 [#]	7	1	0.5	30	450.16	
		25 [#]	10	0.8	0.8	33	381.29	
		25 [#]	15	1	0.5	30	457.55	
		25 [#]	20	1.5	0.5	24	406.71	
		17 [#]	30	1.2	0.5	27	450.05	
		18 [#]	50	1.5	0.5	24	465.12	
		15 [#]	15	1.2	0.5	27	416.67	
		24 [#]	20	1.2	0.5	27	365.90	
		35 [#]	30	1.2	0.5	27	391.34	
		36 [#]	50	1.5	0.5	24	387.07	
	2*EasyPump	13 [#]	0.5	0.8	0.8	33	353.77	
		13 [#]	1	1.2	0.5	27	471.70	
		14 [#]	2	0.6	1	38	370.37	
		14 [#]	5	1.5	0.5	24	370.37	
		19 [#]	10	1.2	0.5	27	454.55	
		16 [#]	15	1.2	0.5	27	401.93	
		16 [#]	20	1.5	0.5	24	428.72	
		25 [#]	30	1	0.5	30	457.55	
		17 [#]	50	1	0.5	30	450.05	
		18 [#]	70	1	0.5	30	488.37	
		15 [#]	30	1.2	0.5	27	416.67	
		24 [#]	50	1.2	0.5	27	457.37	
	35 [#]	70	1.2	0.5	27	456.56		
	36 [#]	100	1.5	0.5	24	387.07		
	DZ25-3L	15 [#]	16	1	0.5	30	454.98	
		24 [#]	30	1.2	0.5	27	389.61	
		35 [#]	150	4	0.5	12	442.91	
		36 [#]	200	4	0.5	12	500.00	
	DF600 PlusIII CF600 PlusIII	DZ25-6L	15 [#]	30	1.2	0.5	27	500.00
			24 [#]	50	1.2	0.5	27	454.55
			35 [#]	70	1.2	0.5	27	437.50
			36 [#]	100	1.5	0.5	24	400.00
DF350 Plus CF350 Plus	DY15	14 [#]	0.5	0.5	0.8	40	94.19	
		14 [#]	1	0.6	0.8	38	156.99	
		14 [#]	3	1	0.5	30	282.57	
		19 [#]	5	1	0.8	30	234.38	
		16 [#]	15	1.5	0.5	24	290.42	
		25 [#]	20	1	0.5	30	258.29	
		17 [#]	30	1	0.5	30	282.53	
	DY25	18 [#]	100	2.5	0.5	17	251.73	
		15 [#]	10	0.8	0.8	33	177.35	
		24 [#]	30	1	0.8	30	235.94	
DF600 PlusIV CF600 PlusIV	YZ35	35 [#]	70	1.5	0.5	24	272.21	
		36 [#]	100	2	0.5	20	241.94	
		26 [#]	50	1	0.5	30	434.78	
		26 [#]	100	2	0.5	20	434.78	
	2*YZ35	73 [#]	100	1.2	0.5	27	406.50	
		73 [#]	150	2	0.5	20	365.85	
		82 [#]	200	1.5	0.5	24	400.00	
		73 [#]	100	1.2	0.5	27	203.25	
73 [#]	200	1.5	0.5	24	325.20			
82 [#]	500	2	0.5	20	375.00			

