

# Film Coating Machine

## VGB-F Series



## Lab Tablet Coater-Perforated & Interchange Pan



VGB-1F

VGB-5F

### *Application:*

**VGB-1F/5F** High-efficiency coating machine is a special laboratory equipment which used for coating film on traditional Chinese and Western tablets and pills in pilot run. This equipment is manufactured according to the requirements of GMP in pharmaceutical industry. The entire outer surface, coating drum(coating pan), spraying device and all parts in contact with medicine are all made of stainless steel. The whole process is controlled by microprocessor-based programmable control system, and also can be controlled manually. The control system has functions such as a wide range of application, selection of running state, control of speed and temperature, control of negative pressure, complete display of control parameters, recording and printing of working state. All the coating operation is carried out under an airtight condition and is free from dust emission and liquid splash. So that this machine is a high quality, high efficiency, reliable, clean, energy saving, easy operation and new type coating equipment which obeys SOP regulations and is widely used to drug development lab.



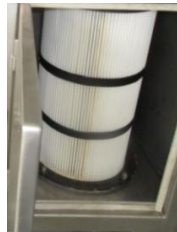
Parts Photos:



Moveable holder for coating pan



A magnetic stirrer



Drum filter

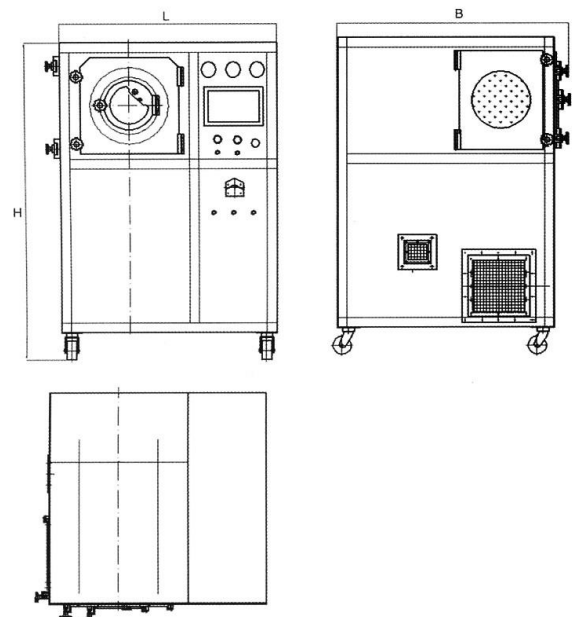


Electromagnetic pulse valve (above)

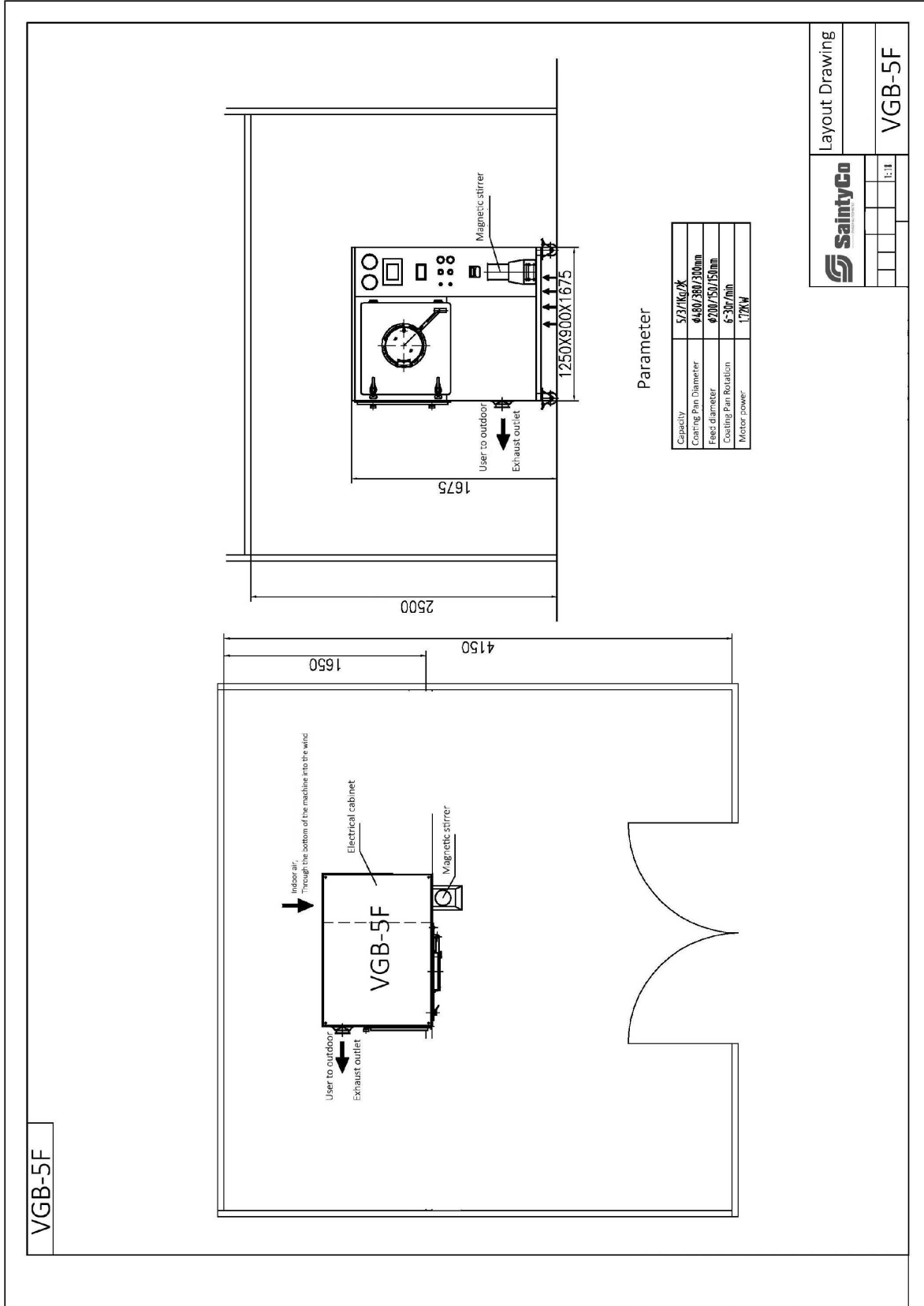
Features:

- Function of integrated design
- Control and display the negative pressure in coating pan
- Display air pressure of the supply air of HEPA filter
- Control and display the temperature
- Control and adjust the atomization surface of slurry
- Control the program of spray gun and atomization
- Design of gun clearing and anti-blocking
- Designed the functions of memory and printing
- Designed the functions of replaceable rotary drum
- Designed the functions of impulse and dust removing.

Main technical parameters	VGB-1F	VGB-5F
Capacity (kg/batch)	0.5-1-2Kgs	1-3-5Kgs
Coating Pan Diameter (mm)	ø300	ø300/ ø380 /ø480
Coating Pan Dimensions (L)	0.8/1.5/3	2/4.5/9
Coating Pan Rotation (rpm)	2 -18	6-30
Coating Pan Power (kW)	0.25	0.75
Airflow (m3/hr)	260	500
Inlet air motor power (kW)	0.4	0.25
Outlet air motor power (kW)	0.75	0.37
Spray gun type	Two way pressure spray gun	
Spray gun No.	1	1
Peristaltic pump power (kW)	0.2	0.03
Inlet air filter model	H10	H13
Outlet air filter model	F8	F8
Dimensions (mm)	1250×1290×1650	1310×1000×1675
Machine Weight (kg)	600	400



VGB-5F Drawing:



## Lab Tablet Coater-Perforated & Interchange Pan



VGB-10F

VGB-20F

### Application:

The VGB-F Series high-efficiency film coating machine is mainly used in pharmaceutical and food industries. It is a high-efficiency, energy saving, safe, clean and mechatronics equipment for coating tablets, pills and candies with organic film, water soluble film, slow and controlled release film and sugar film etc. Which conforms to the requirement of GMP

### Features:

VGB-F Series coating machine not only possesses basic functions and characteristics of E-type machine, but also has the following characteristics:

- It is the best model for exploring coating technology in pharmaceutical laboratory.
- The coating drum can be replaced according to the coating technology batch.
- Replacement of the coating drum is convenient and fast.
- Main machine and hot air system are integrated and compact with air collecting in clean area.

**Working principle:**

The table cores make continuous and complicated orbital motion within the closed rotating drum under the action of a streamline guide plate. During the motion, coating medium automatically sprays according to the technological process and rational technological parameters, at the same time hot air is supplied under a negative pressure. The hot air penetrates through the tablet core layers and is discharged from the bottom of the layers, so that the coating medium sprayed on the surface of table cores will dry rapidly and evenly, thus forming a solid and smooth surface film.



**Baffle**

Main Technical Specifications	VGB-10F	VGB-20F
Capacity (kg/batch)	3/5/10	10/20
Coating Pan Diameter	∅ 500/ ∅ 520 ∅ 610	∅ 610/ ∅ 680
Coating Pan Depth (mm)	320/ 360 490	540
Coating Pan Opening Diameter (mm)	∅ 380	∅ 380
Coating Pan Rotation (rpm)	6 - 30	6 - 30
Motor of Main Machine (kW)	0.55	0.55
Motor of Hot Air Cabinet (kW)	0.75	0.75
Motor of Exhaust machine (kW)	2.2	2.2
Motor of Peristaltic Pump (kW)	0.18	0.18
Volume of the Solution Tank (L)/max (L)	10/20	20/40
Fan Capacity (m <sup>3</sup> /hr)	1000-1500	1000-1500
Number of Spray Gun	1	1
Dimension of Main Machine (mm)	970 x 910 x 1800	1000 x 950 x 1900
Dimension of Hot Air Machine (mm)	700 x 700 x 2140	700 x 700 x 2140
Dimension of Exhaust Machine (mm)	650 x 600 x 1830	650 x 600 x 1830
Main Machine Weight (kg)	350	350
Hot Air Machine Weight (kg)	250	250
Exhaust Machine Weight (kg)	200	200
Power of hot air unit electric heating system(Kw)	10	10
Steam Pressure	>0.4Mpa	>0.4Mpa

VGB-10F/20F Auxiliary Machine:



Spray gun

Tablet Coater Model	Spray gun Model
VGB-10F	10F
VGB-20F	20F



Solution tank

Tablet Coater Model	Solution Tank Model
VGB-10F	DJ-10
VGB-20F	DJ-20



Exhaust

Tablet Coater Model	Exhaust machine Model
VGB-10F/20F	CP-1500



Air heating unit

Tablet Coater Model	Air heating unit Model
VGB-10F/20F	RGL-1000



Electrical

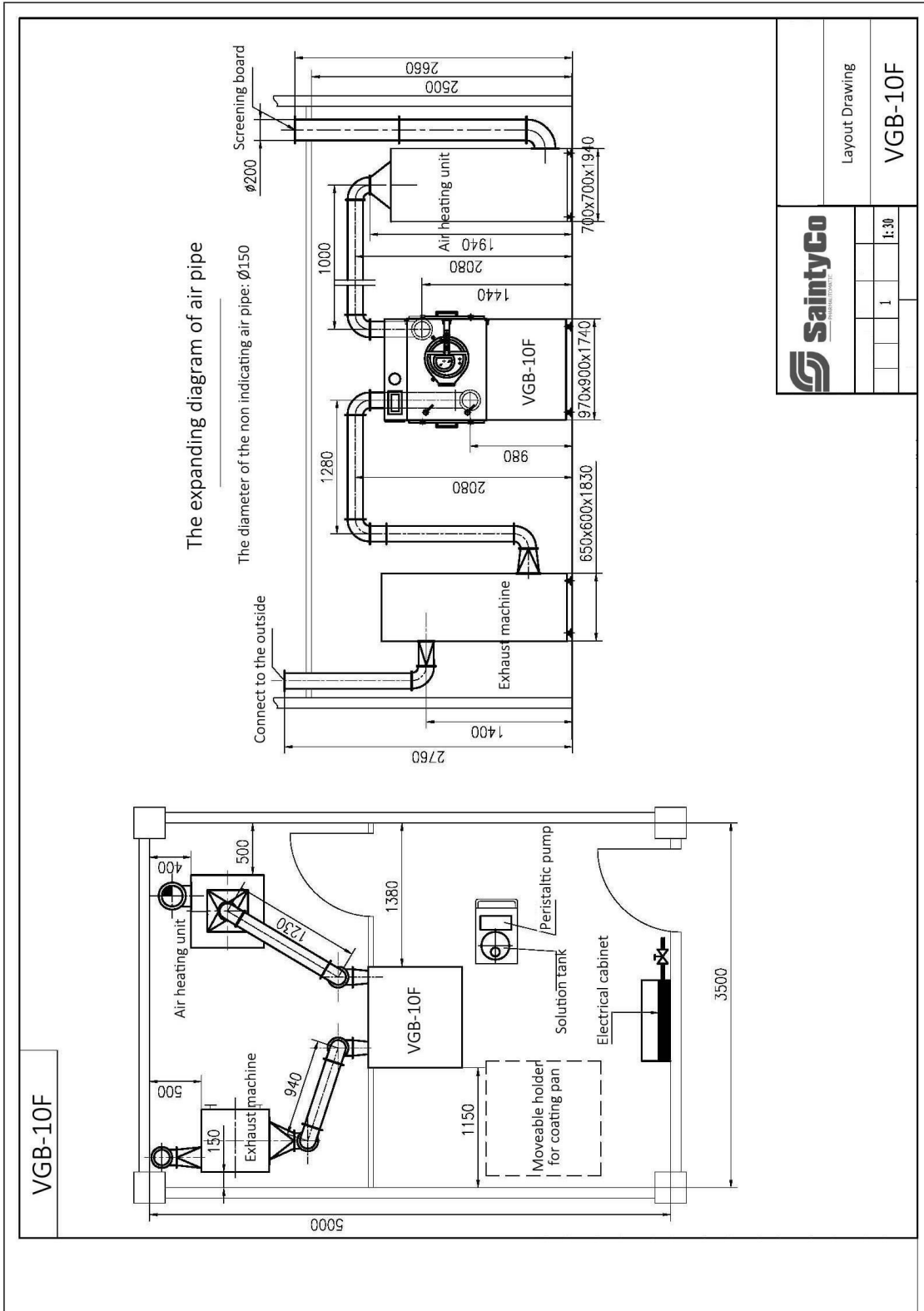
Tablet Coater Model	Electrical cabinet Model
VGB-10F	DG-10F
VGB-20F	DG-20F



Peristaltic pump

Tablet Coater Model	Peristaltic pump Model
VGB-10F/20F	BT-100

VGB-10F Drawing:







## Tablet Coater-Perforated & Interchange Pan



VGB-40F

### Application:

The VGB-F Series high-efficiency film coating machine is mainly used in pharmaceutical and food industries. It is a high-efficiency, energy saving, safe, clean and mechatronics equipment for coating tablets, pills and candies with organic film, water soluble film, slow and controlled release film and sugar film etc. Which conforms to the requirement of GMP

Main Technical Specifications	VGB-40F
Production capacity (kg/run)	40
Three drums for one machine(kg/batch)	20,40
Diameter of drum(mm)	720,850
Speed-adjusting range of coating drum (rpm)	4-21
Motor power of main machine(kW)	1.1
Temperature-regulating range of hot air (° C )	Normal temperature~80°C
Motor power of hot air machine(kW)	1.1
Motor power of exhaust machine (kW)	3
Motor power of vibration dust-cleaning device(kW)	0.37
Motor power of peristalsis pump(kW)	0.18
Overall dimension of main machine (mm)	1120x 1100x 1840
Weight of main machine (kg)	600

VGB-40F Auxiliary Machine:



Spray gun

Model	40F
-------	-----



Solution tank

Model	DJ-40
-------	-------



Exhaust

Model	CP-1500
-------	---------



Air heating unit

Model	RGL-3000
-------	----------



Electrical

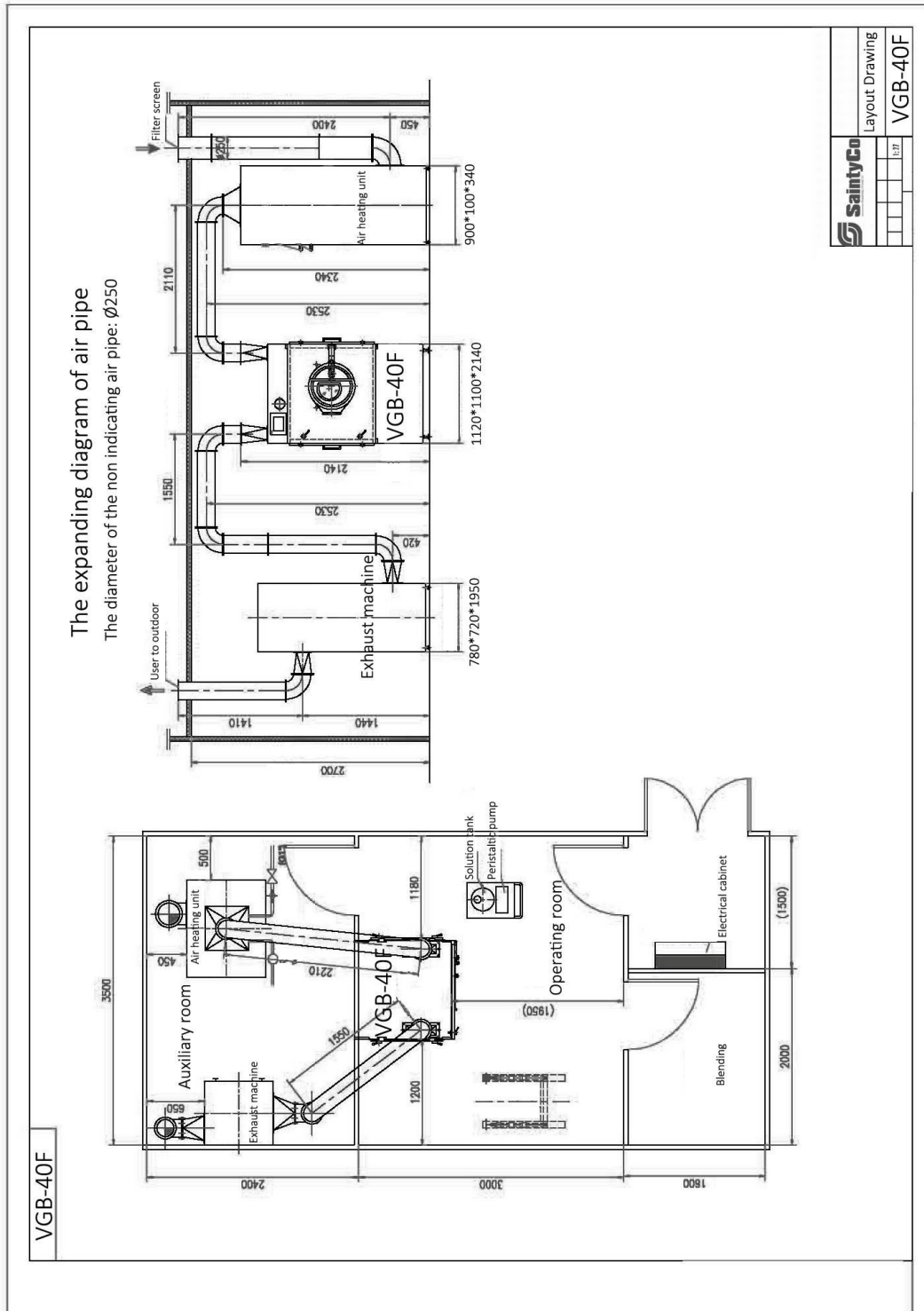
Model	DG-40F
-------	--------



Peristaltic pump

Model	RD-120A
-------	---------

VGB-40F Drawing:



SaintyCo also offer:

Encapsulation Solutions

Tablet Compression Solutions

Cartoning Systems

Blister Packing Solutions

