

Film Coating Machine

VGB-E Series



Perforated Film Coating System



VGB-40E

VGB-75E

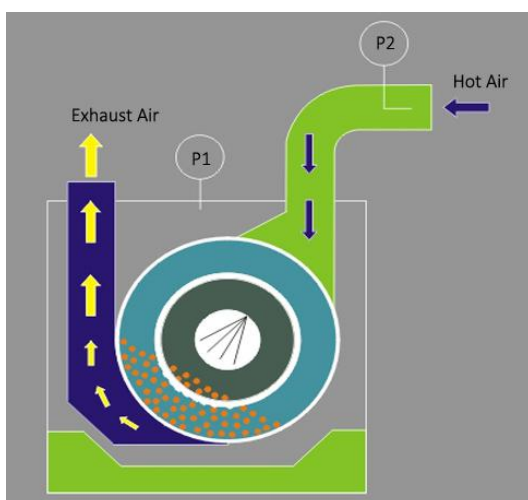
VGB-150E

VGB-200E

VGB-250E

VGB-350E

VGB-600E



Application:

Model VGB-E Series Advanced Film Coaters are widely used in pharmaceutical, nutraceutical, herbal, chemical, food and confectionary industries. Featuring high quality-advanced design and manufactured in conformance to the cGMP Standard. It is a high-efficiency, energy saving, minimal waste material and easy to clean. It is an ideal equipment for coating tablets, pills, capsules or candies with organic film, water soluble film, slow and controlled release film and sugar film. We have state-of-the-art technology to solve difficult to coat products.

We offer both perforated and none-perforated coating pans for lab use to mass production scale.

Perforated Film Coating System

Features:

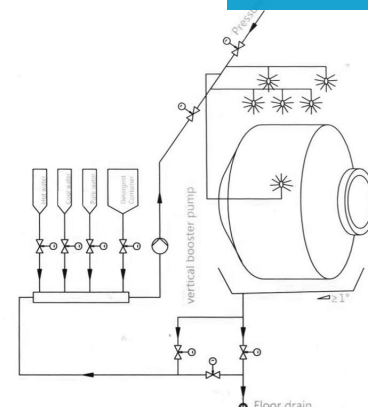
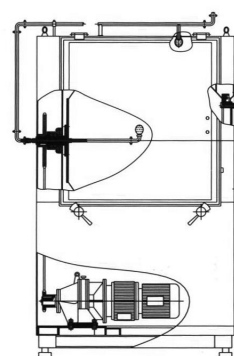
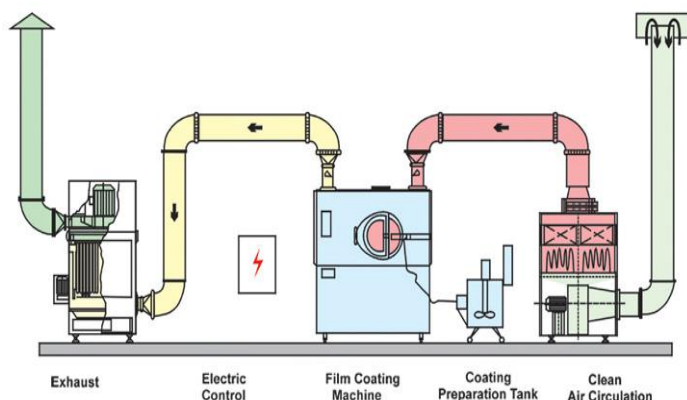
- All the operations, including expansion of PLC modules, setting and control of hot air temperature and adjustment of drum speed, are controlled by **SIEMENS** HMI (Human Machine Interface) with **SIEMENS** Color Touch Screen Panel. The operating panel is a fully enclosed light touch film interface which does not influence the cleaning of main machine, thus featuring reliable operating, stable performance and conforming to the requirement of cGMP. All high quality **SIEMENS** electrical components.
- Under the action of the agitator of streamline guide plate type, the tablet cores are tumbling smoothly and exchanging frequently, thus eliminating the tablet cores to fall from a high places or colliding, solving the problems of broken tablets and chipped edge, and improving the rate of finished products. The narrow surface of the guide plate eliminates the adhesion of coating material on its surface, thus saving the coating material and improving the quality of coated tablets.
- The peristaltic pump with constant-pressure variable eliminates the need for a return pipe. The turning radius of the drum varies along with the pressure change. The output slurry and the quantity of slurry sprayed are balanced automatically; therefore, stabilizing the effect of atomization, simplifying the spray system, preventing the spray gun from plugging-up, and saving the coating material. Moreover, the cleaning is simple and there are no blind corners.
- The spray gun especially designed for the film coaters features even atomization and large coverage of spraying. Other universal adjustable spray heads make the cleaning mechanism of spray gun ineffective by charge quantity. With our new design spray gun heads, the film coating can proceed continuously, thus reducing the film coating time and saving film coating material.
- Equipped with Standard Automatic CIP System
- Special patented spray gun head with automatic controlling the spraying and cleaning time to avoid clogging.
- Available Pan Cooling Surface System to handle coating special products & Automatic Load Cell System to monitoring the solution spraying amount.
- Expect Outstanding Equipment Installations, Support and Training from the sainty's Field Technical Services Team.

Working Principle:

The tablets surface to be film coated making continuous orbital motion within the closed rotating pan under the action of a streamline guide plate. During the motion, coating solution automatically sprays according to the technological process and rational technological parameters, at the same time, hot air is supplied from under the bottom of the layers, so that the coating solution sprayed on the surface of tablet cores will dry rapidly and evenly--thus forming a solid and smooth surface film.



Perforated Film Coating System



Main Technical Specifications		VGB-40E	VGB-75E	VGB-150E	VGB-200E	VGB-250E	VGB-350E	VGB-600E
Capacity (kg/batch)		40	75	150	200	250	350	600
Coating Pan Diameter		Ø 850	Ø 950	Ø 1200	Ø1200	Ø1460	Ø 1580	Ø1580
Coating Pan Depth (mm)		705	780	1030	1129	1171	1300	1900
Coating Pan Opening Diameter (mm)		Ø 380	Ø 482	Ø 480	Ø480	Ø580	Ø700	Ø850
Coating Pan Rotation (rpm)		4 - 23	4 -23	2 -15	2-15	2-11	2-11	2-10
Motor of Main Machine (kW)		0.75	0.75	2.2	3.0	3.0	4	5.5
Motor of Hot Air Cabinet (kW)		1.1	1.1	1.1	1.1	1.1	2.2	5.5
Motor of Exhaust machine (kW)		3	3	5.5	5.5	7.5	7.5	15
Motor of Peristaltic Pump (kW)		0.18	0.18	0.18	0.18	0.18	0.18	0.18
Volume of the Solution Tank (L)/max (L)		40/55	40/80	60/120	60/180	60/200	100/200	220/300
Fan Capacity (m³/hr)		2000-2500	2000-2500	2500 -3000	2500 -3000	3500-4000	3500-4000	3500-5000
Number of Spray Gun		2	2	3	3	4	4	6
Dimension of Main Machine (mm)		1120 x880 x 1715	1200 x 965 x 1750	1570 x 1260 x 2000	1570x1360x2 000	1880x1440x2 210	2000 x 1560 x 2300	2000 x2240 x2320
Dimension of Hot Air Machine (mm)		1100 x 900 x 2340	1100 x 900 x 2340	1150 x 1100 x 2510	1150x 1100x 2600	1150x1100x 2600	1610 x 1085 x 2710	1400 x1400 x2670
Dimension of Exhaust Machine (mm)		780 x 720 x 1950	780 x 720 x 1950	915 x 800 x 2030	915x 800x 2300	1050x1000x 2600	1050 x 1000 x 2100	1250 x1200 x2200
Main Machine Weight (kg)		650	650	900	1000	1250	1500	2500
Hot Air Machine Weight (kg)		200	200	300	500	500	500	800
Exhaust Machine Weight (kg)		250	250	400	450	450	600	800
Power of hot air unit electric heating system(Kw)		20	20	30	30	50	50	60
Steam	Pressure	>0.4Mpa	>0.4Mpa	>0.4Mpa	>0.4Mpa	>0.4Mpa	>0.4Mpa	>0.4Mpa
	Air Consumption	80 kg/h	80 kg/h	100 kg/h	150 kg/h	150 kg/h	200 kg/h	400kg/h

VGB-E Series Auxiliary Machine:



Spray gun

Tablet Coater Model	Spray gun Model
VGB-40E	40C
VGB-75E	75C
VGB-150E	150C
VGB-350E	350C
VGB-600E	600C



Solution tank

Tablet Coater Model	Solution Tank Model
VGB-40E	DJ-40
VGB-75E	DJ-40
VGB-150E	DJ-60
VGB-350E	DJ-100
VGB-600E	DJ-200



Exhaust

Tablet Coater Model	Exhaust machine Model
VGB-40E	CP-3200
VGB-75E	CP-3200
VGB-150E	CP-4500
VGB-350E	CP-6000
VGB-600E	CP-7500



Air heating unit

Tablet Coater Model	Air heating unit Model
VGB-40E	RGL-3000
VGB-75E	RGL-3000
VGB-150E	RGL-4000
VGB-350E	RGL-6000
VGB-600E	RGL-7000



Electrical

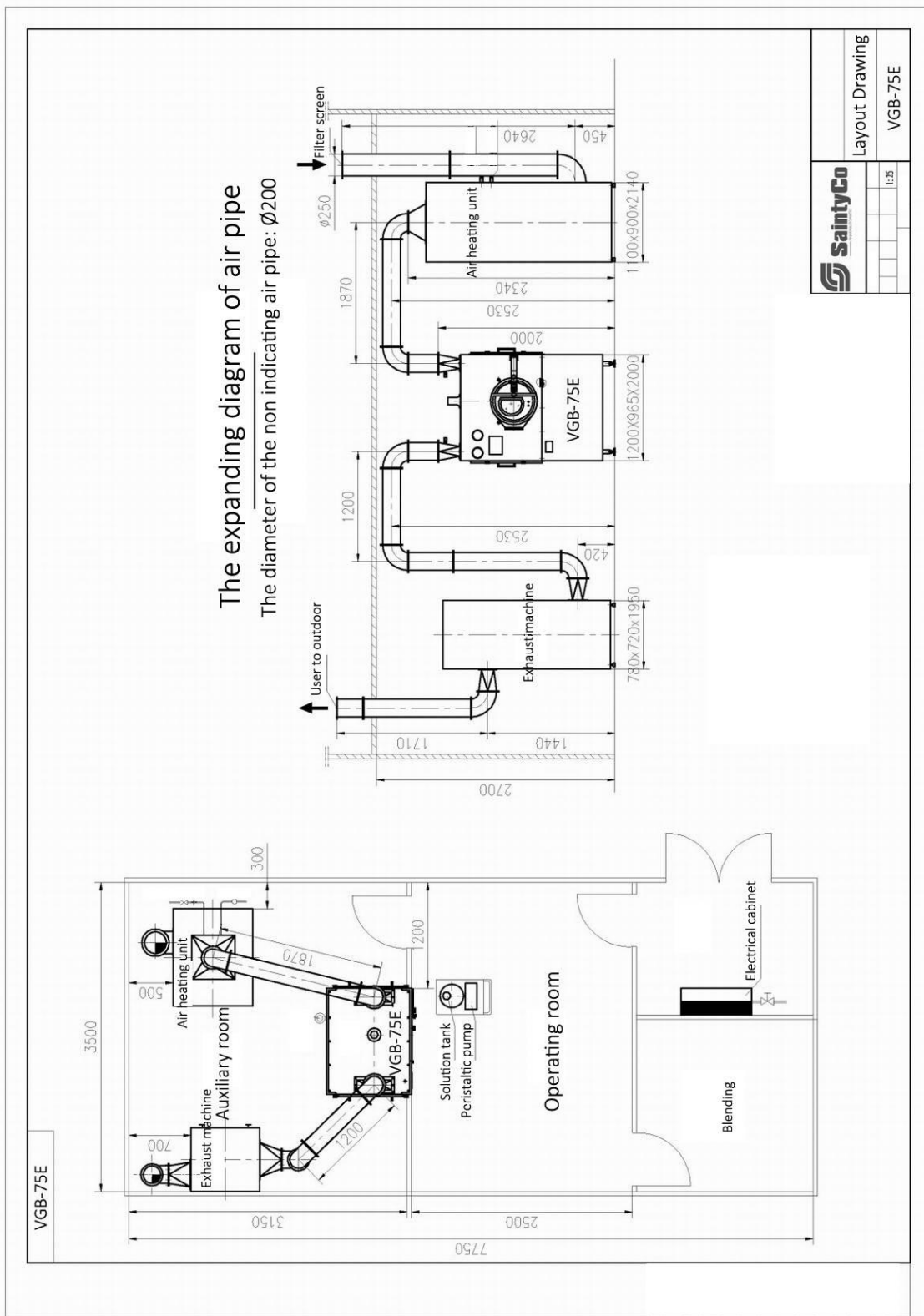
Tablet Coater Model	Electrical cabinet Model
VGB-40E	DG-40C
VGB-75E	DG-75C3
VGB-150E	DG-150C3
VGB-350E	DG-350C3
VGB-600E	DG-600C3



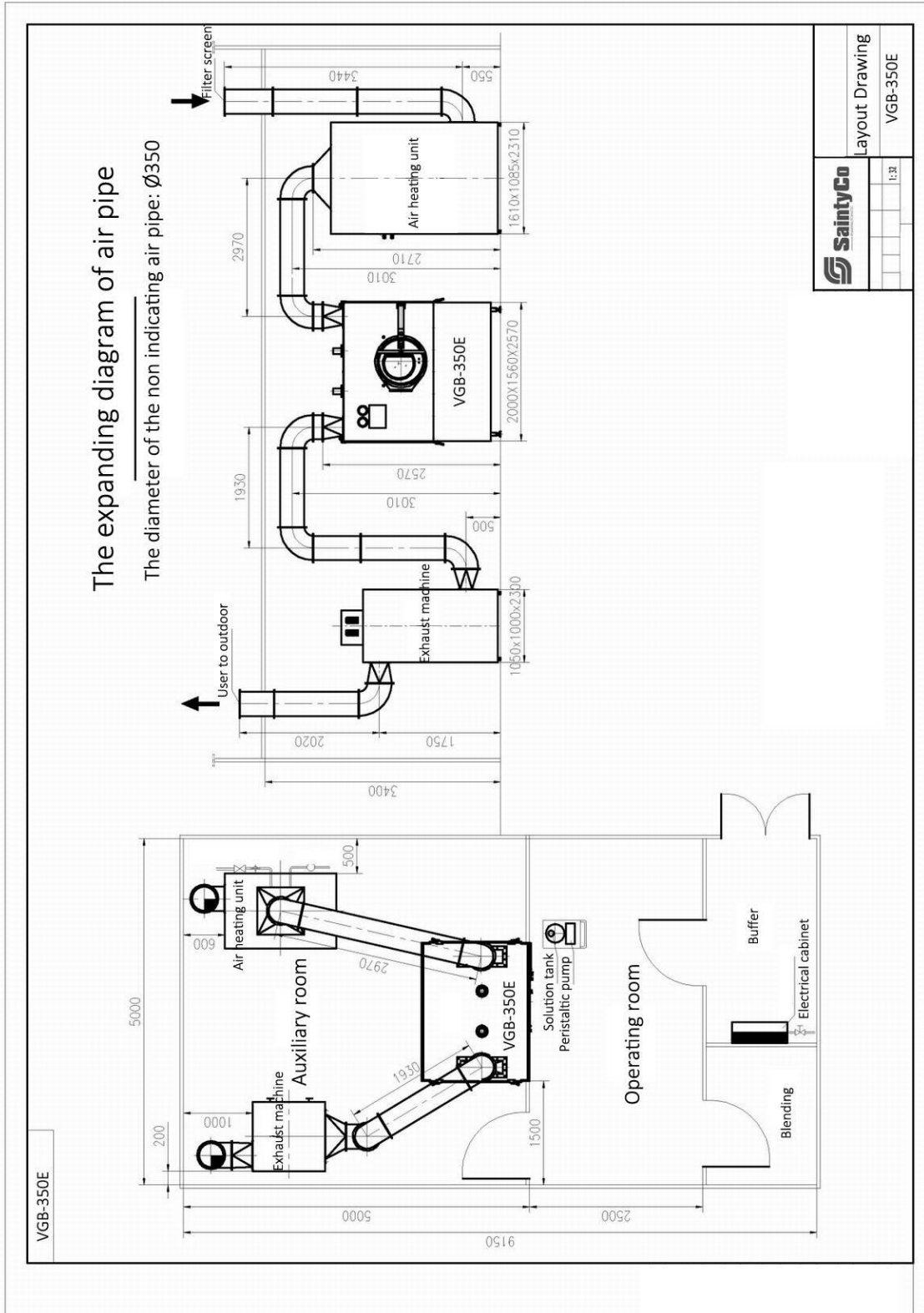
Peristaltic pump

Tablet Coater Model	Peristaltic pump Model
VGB-40E	RD-120A
VGB-75E	RD-120A
VGB-150E	RD-120A
VGB-350E	RD-120A
VGB-600E	RD-120A

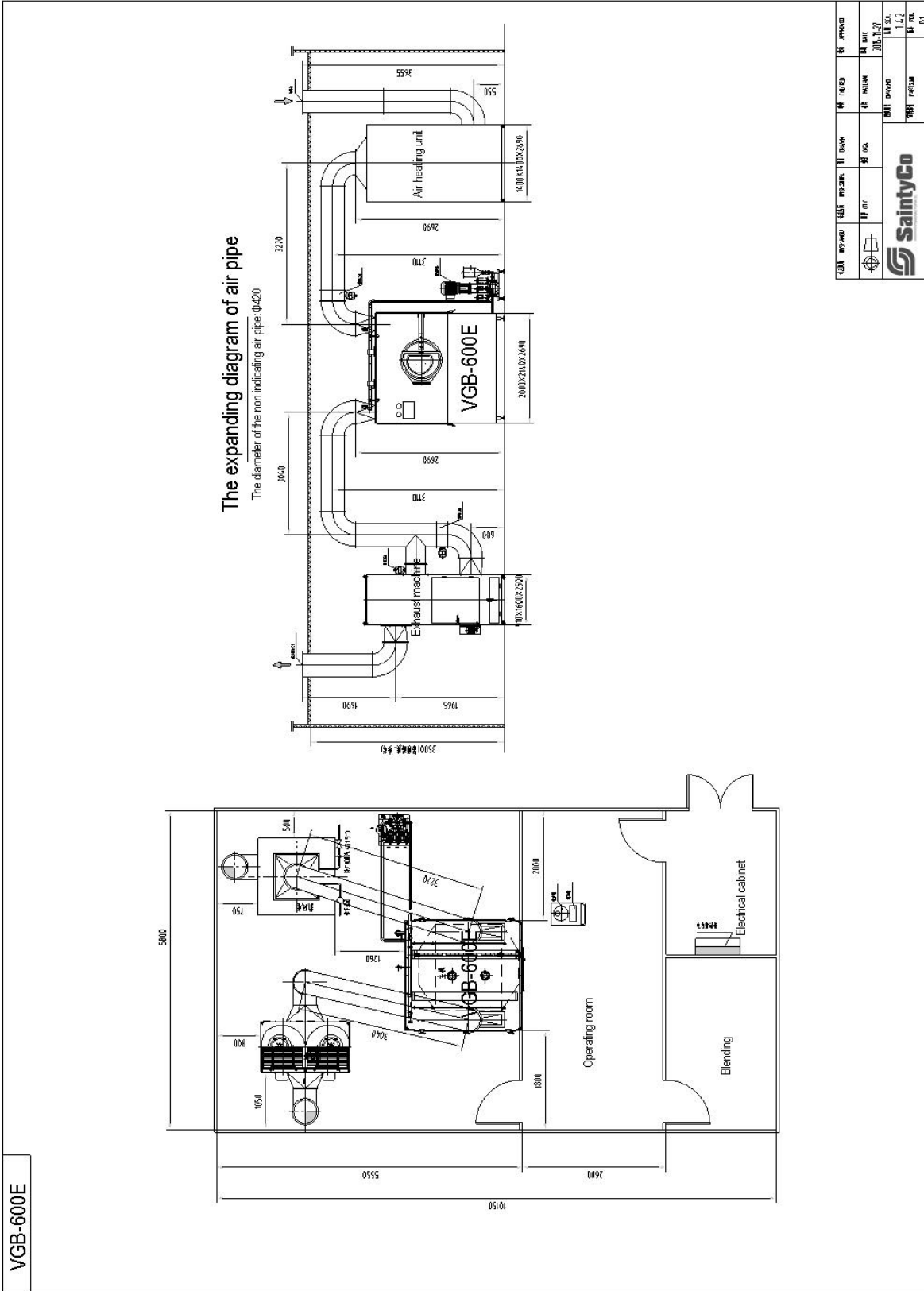
VGB-75E Drawing:



VGB-350E Drawing:



VGB-600E Drawing:



SaintyCo also offer:

Encapsulation Solutions

Tablet Compression Solutions

Cartoning Systems

Blister Packing Solutions

