

SPECIFICATIONS

Pan Diameter	Number of Guns	Brim Volume (liters)	Model 24		Model 36	
			Aqueous	Solvent	Aqueous	Solvent
12"	1	½ - 1	optional		N/A	
15"	1	1 - 2	optional		N/A	
19"	1	2 - 8	optional		optional	
24"	2	8 - 25	standard		optional	
30"	2	25 - 75	N/A		optional	
36"	3	30 - 100	N/A		standard	
Coating Pan Transport Trolley			Optional		Included	
Pan Speed - VFD Control			3-30 RPM		3-30 RPM	
Process Air Flow - VFD Blower Controls			100-500 CFM		250-1000 CFM*	
Process Air Temperature - Setpoint Control			85°C (max)		85°C (max)	
Solution Flow Rate and Display Range			25-250 ml/min		25-250 ml/min	
Dimensions			Aqueous	Solvent	Aqueous	Solvent
Height			77"	77"	79"	79"
Height with Dehumidification			94"	94"	103"	103"
Width			44"	44"	50"	50"
Depth			58"	58"	63"	63"
Electrical Cabinet (DxWxH)			N/A	16x32x75	N/A	16x32x75
Weight						
Compu-Lab			2100 lbs	2300 lbs	2600 lbs	2800 lbs
Electrical Cabinet (Solvent)			N/A	600 lbs	N/A	600 lbs

*Note: Consult factory for air flow range when using 19" pan in Model 36 Compu-Lab.

OPTIONS:

- Integrated Exhaust Filtration - popular feature for laboratory use; permits portability and coater use in multiple rooms; includes pressure switch and clogged filter indicator.
- External exhaust blower with cartridge dust collector - useful for permanent installations in pilot plants and other sites where frequent sustained operation is expected.
- Remote Exhaust Dew Point Sampling - Includes sensor and control panel indicator.
- Dehumidification - Includes cooling coil, chilled water valve and controls. (Chiller by customer)
- 2-Solution Switching - control panel switch and fluid valve for switching between two solution tanks. (Tanks not included)
- Pan Transport Trolley - Provides support of large pans when removing or installing in coater; optional storage cart also available.
- Machine Casters - Robust industrial casters for machine portability.



Stainless Steel Cart- Permits easy storage for additional sizes. Capable of holding 4 pans.



Thomas Engineering continually explores new product technologies for equipment and process improvements. We, therefore, reserve the right to make changes to specifications and sales literature without notice. Equipment photos are for illustration only, and may not reflect actual devices/models used in a build project.

Thomas Engineering - Equipment Range

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- **ACCELA-GOTA**® Spectrum - Containment Batch Coaters
- **ACCELA-GOTA**® "D" and **ACCELA-GOTA**® "S" - Production Size Batch Coaters
- 24" and 36" **COMPU-LAB** - Fully-Integrated Laboratory Size Coaters
- Continuous Coaters - High Throughput for Continuous Applications

THOMAS ENGINEERING COMPU-LAB

TOTAL COVERAGE...EVERY TABLET...EVERY PROCESS...EVERY TIME...



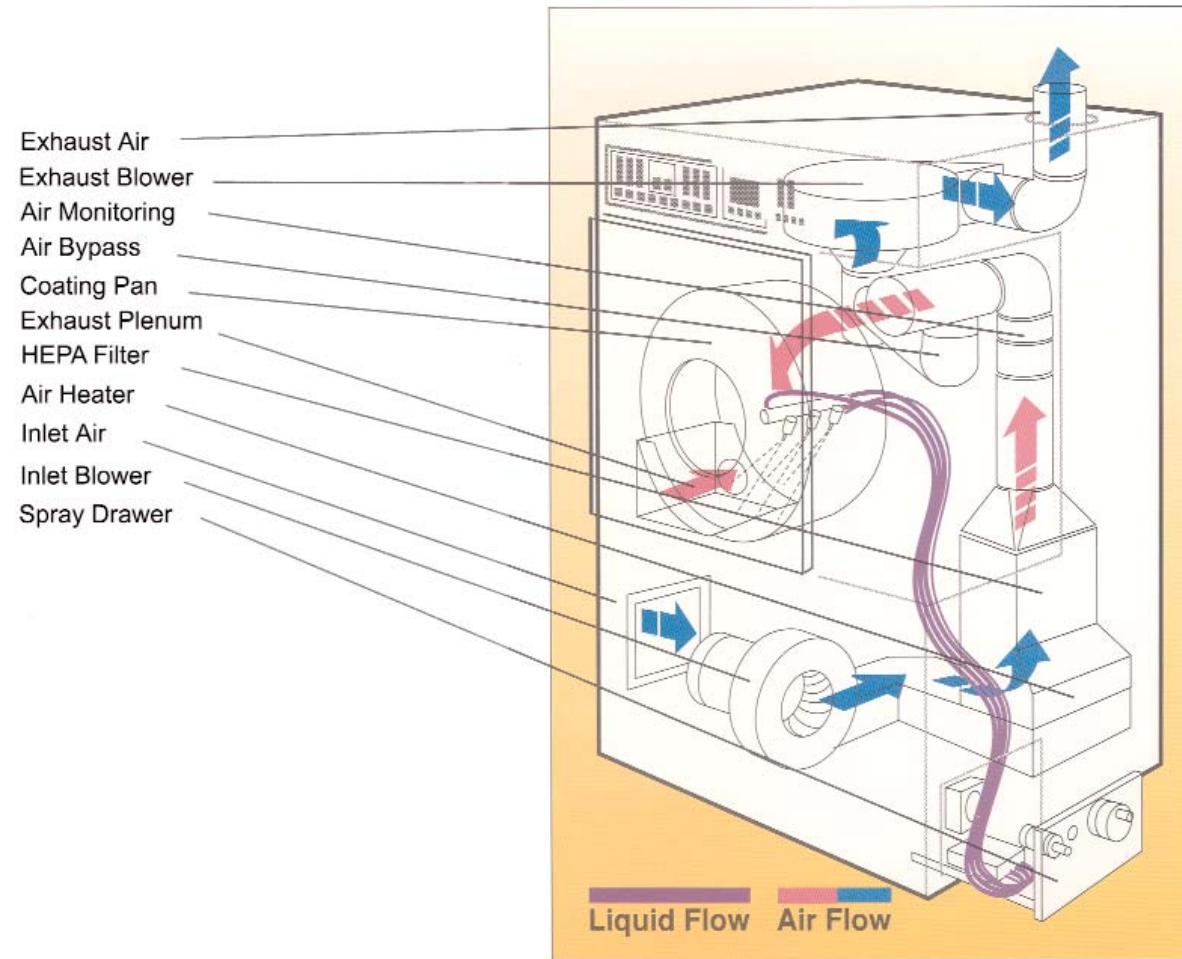
Fully Integrated Tablet Coating System
Lab...Pilot Plant...Clinical Supplies...Small Batch



Compu-Lab...by Thomas Engineering

The Innovator of fully perforated pan tablet coaters

The Thomas Engineering Compu-Lab is a fully integrated tablet coating system. It's the perfect coater for applications ranging from product development up through GMP manufacturing of clinical supplies. Systems include coating pans, inlet air handling package, exhaust blower with filtration, drawer-mounted spray system and controls all in one unit!



For **real** process development, do your work in a real tablet coating environment - do your work in a Compu-Lab.



FEATURES	BENEFITS
Integrated Pan, Spray, and Process Air Handling	<ul style="list-style-type: none"> No facility improvements required for most installations. Simple utility connections. Portability for best utilization of multiple purpose rooms.
Batch versatility	<ul style="list-style-type: none"> Multiple pan sizes permit coating with wide range of batch sizes. High and low profile mixing baffles available in several pan sizes to tailor mixing action to pan load. Indexable spray manifold for repeatable gun-to-bed distance and spray angle for any bed depth. Direct scale-up from development coating projects up through clinical supplies and commercial products all on the same machine.
User friendly control panel layout	<ul style="list-style-type: none"> Discrete displays and digital controls for effortless operator interface with the process. Reduced training requirements. Reduced time and expense for equipment validation.
GMP Construction	<ul style="list-style-type: none"> Equipment suitable for producing clinical supplies or small batches of commercial products. Sanitary 316L stainless steel pan, mixing baffles, anti-slide bars, and spray manifold for easy cleaning.

COMPU-LAB...

The preferred choice for process development and scale-up.

While other lab coaters are designed for test work "just to see how the tablets coat," Compu-Lab is uniquely configured to provide unmatched utility for process scale-up. The coating environment in Compu-Lab closely matches that found in production size coating systems. That's why leading pharmaceutical companies prefer the Compu-Lab and the benefits it affords them:

- Full-size spray guns with features appropriate to your solution properties and spray process; choose from a range of commercially available spray gun products including the Thomas Spray Bar.
- Indexing hardware permits repeatable positioning of spray gun distance to tablet bed and angular orientation of guns.
- Independently regulated exhaust and inlet blowers provide precise control of process air flow and pan-to-room differential pressure.
- A process air bypass is included with every Compu-Lab; during sampling or process pause, the bypass diverts process air around the tablet bed without disrupting controlled parameters or exhaust air balance. This useful feature is commonly found on production scale coaters.

INTEGRAL PROCESS AIR HANDLING SYSTEM

Compu-Lab provides many great features for measurement and control of process air:

- Proven blower drive technology – High efficiency motors with variable frequency drives (VFD); direct drive blower wheels for high performance and reduced maintenance.
- Inlet air HEPA filtration (99.97%) is standard; includes pressure switch and alarm indicator.
- Stainless steel air flow measurement station with corrosion-resistant air equalizer and straighteners.
- Two-stage exhaust plenum with "push-button" setup for high and low bed depths.
- Process air bypass with pressure balance control.
- Closed loop PID control for set point temperature stability.
- High-performance chilled mirror dew point sensor; includes display panel readout.
- Choice of integral exhaust filter or remote dust collector.
- Optional dehumidification coils and control valve; improves drying capacity and helps with low temperature processes.

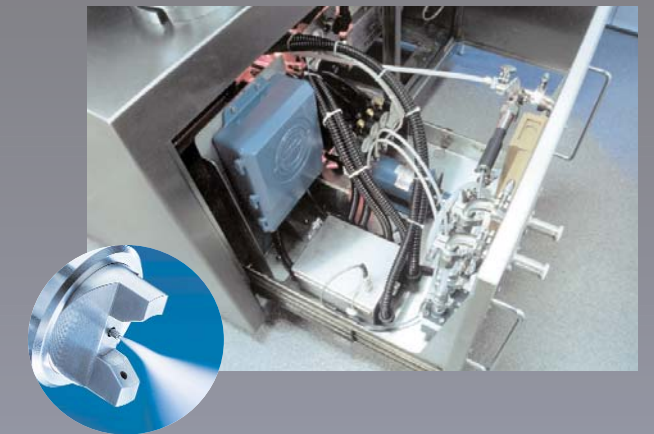


DIRECT DRIVE BLOWERS



EXHAUST PLENUM

COMPACT SPRAY SYSTEM



Compu-Lab includes a fully integrated spray system to deliver a controlled flow of coating solution and compressed air to the tablet bed:

- Compact drawer design – spray system is located beneath coating chamber to minimize floor space requirements and permit portability.
- Convenient access to solution lines, flow meter, pump head, and tubing elements; quick connect solution and air lines permit removal of washable components without tools.
- Peristaltic pump affords reliable and repeatable solution delivery performance; tubing element is selected for compatibility with solution spray.
- Volumetric solution flow meter is included as standard; mass flow meter also available.
- Solution recirculation valve is included - helps reduce settling of solids in suspensions during spray pause.
- Articulated spray support arm permits easy extraction of spray manifold for easy cleaning and gun calibration.
- Indexing hardware permits repeatable positioning of spray guns relative to tablet bed.
- Features and options available for aqueous, enteric, drug spray and sugar coating processes. Compu-Lab models are also available for solvent coating applications.