

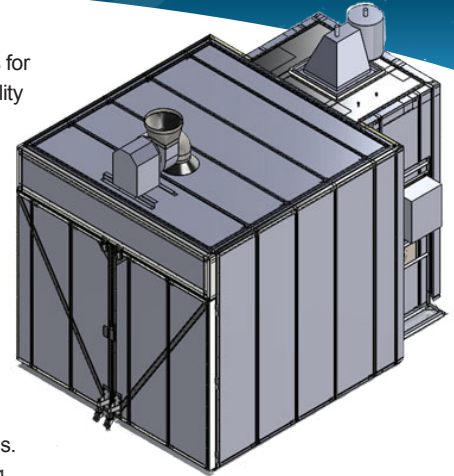


# VHD Batch Ovens

Col-Met designs and fabricates batch curing ovens to meet a wide range of industrial curing applications for both liquid and powder coatings. Col-Met ovens are designed for efficient performance utilizing high quality Eclipse Version 2 direct fired burners. The oven is designed around an internal frame structure which supports prefabricated insulated oven panels that interlock simplifying installation. The floor mounted pretested burner box assembly supplies heated air to distribution plenum in the ceiling of the oven permitting full overhead discharge. This downdraft design combined with dedicated combustion and exhaust blowers allow for optimal air flow within the oven which equates to quicker ramp up times and faster batch processing.

Col-Met ovens are supplied with our industry leading SmartTouch Control Panel. Utilizing the touchscreen interface, the operator can intuitively scroll through the various menu features which includes batch timers, alarms, programmable recipes, maintenance schedules and diagnostics. Col-Met ovens are also supplied with our SmartConnect feature which is an APP based program that allows for remote monitoring of the oven parameters and can also be configured to send notifications. Col-Met offers as an option the SmartBatch feature which provides real time part temperature monitoring.

Col-Met's standard batch ovens are provided with dual entry doors. Optional door configurations include bi-fold or sliding in situations where floor space is an issue. Col-Met also offers a premium AutoSeal metalized fabric roll-up door designed for reduced energy usage, ease of operation and operator convenience. Contact your local Col-Met distributor for more detailed information or custom oven designs.



## SmartConnect

The Col-Met SmartConnect App provides the ability to remotely view oven status when the control panel is connected to an active internet connection. SmartConnect provides the ability to monitor temperature, process time remaining, elapsed time, system faults or burner status remotely. With the SmartConnect App you can receive email and/or text notifications for batch complete, oven temperature out of range, system faults or preventative maintenance with yearly subscription which is free for the first year. The App can be accessed using any Android, PC or Apple device.

## SmartBatch

Col-Met's new **patent pending** SmartBatch technology allows for "real-time" monitoring of part temperature. SmartBatch technology incorporates part temperature probes into the design of the batch oven and control panel for monitoring part temperature during the cure process. The information can then be used to control cure time cycle as well as document the part curing process, providing better control of the cure process.



SmartTouch PLC Control Panel



SmartConnect App to remotely view oven status.

## Construction & Features

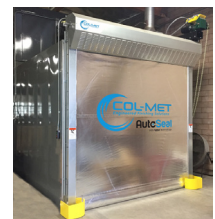
- Internal angle iron frames in all models
- 20-gauge aluminized steel with 4" insulated panels
- Single entry and double entry design available
- In house design and fabrication of oven panels.
- Slotted channel design to reduce heat transfer
- Explosion relief doors with FM approved latches
- Eclipse Version 2 air heat burners
- Superior airflow design to reduce heat transfer
- Maximum operating temperature of 450F
- Col-Met Batch Ovens comply with applicable OSHA, NFPA and Class A standards

## SmartTouch PLC Control Panel

- 6" Touchscreen with four batch modes and troubleshooting capabilities
- 1 Second to 166-hour digital batch timer with countdown indication
- Digital self-tuning temperature controller and high temperature limit with rollback protection
- Air proving switches for all critical fans.
- UL/cUL/ETL listed controls in a NEMA12 Enclosure
- FM approved gas train with high pressure, low pressure, and proof of closure safety switches.
- UV scanner flame monitoring for reliable start-up
- 230V/480V 3-phase 60Hz
- Available VFD control on exhaust fan for faster purge and cooler-down times.



Optional SmartBatch part temperature monitoring



Optional AutoSeal roll-up door with patented air-tight sealing technology.

# VHD Batch Ovens



## Selecting a VHD Batch Oven Size

Col-Met can design and build ovens in a variety of sizes and configurations. Although our team can engineer a custom oven to fit your needs, below are standard sizes that are quickly available to you.

Model Number	Interior Dimensions			Single Entry Outside			Double Entry Outside			Recirculating Fan		Exhaust Fan		Burner		BTU Load (lbs/hr)	Gas Train	Cubic Feet/Hour	
	Width	Height	Depth	Width	Height	Depth	Width	Height	Depth	SCFM	HP	SCFM	HP	BTU	HP			Natural CFH	LP CFH
BO-VHD-05-06-06-SE	5'-0"	6'-0"	6'-0"	5'-8"	7'-10"	10'-8"	9'-8"	7'-10"	6'-8"	1,080	1HP	675	1HP	500,000	0.33HP	500	1" NPT	500	315
BO-VHD-05-06-07-SE	5'-0"	6'-0"	7'-0"	5'-8"	7'-10"	11'-8"	9'-8"	7'-10"	7'-8"	1,260	1HP	675	1HP	500,000	0.33HP	500	1" NPT	500	315
BO-VHD-05-06-08-SE	5'-0"	6'-0"	8'-0"	5'-8"	7'-10"	12'-8"	9'-8"	7'-10"	8'-8"	1,440	1.5HP	675	1HP	500,000	0.33HP	600	1" NPT	500	315
BO-VHD-05-06-10-SE	5'-0"	6'-0"	10'-0"	5'-8"	7'-10"	14'-8"	9'-8"	7'-10"	10'-8"	1,800	1.5HP	700	1HP	500,000	0.33HP	800	1" NPT	500	315
BO-VHD-05-06-12-SE	5'-0"	6'-0"	12'-0"	5'-8"	7'-10"	16'-8"	9'-8"	7'-10"	12'-8"	2,160	2HP	700	1HP	500,000	0.33HP	900	1" NPT	500	315
BO-VHD-06-06-06-SE	6'-0"	6'-0"	6'-0"	6'-8"	7'-10"	10'-8"	10'-8"	7'-10"	6'-8"	1,296	1HP	675	1HP	500,000	0.33HP	500	1" NPT	500	315
BO-VHD-06-06-08-SE	6'-0"	6'-0"	8'-0"	6'-8"	7'-10"	12'-8"	10'-8"	7'-10"	8'-8"	1,728	1.5HP	675	1HP	500,000	0.33HP	700	1" NPT	500	315
BO-VHD-06-06-10-SE	6'-0"	6'-0"	10'-0"	6'-8"	7'-10"	14'-8"	10'-8"	7'-10"	10'-8"	2,160	2HP	700	1HP	500,000	0.33HP	800	1" NPT	500	315
BO-VHD-06-06-12-SE	6'-0"	6'-0"	12'-0"	6'-8"	7'-10"	16'-8"	10'-8"	7'-10"	12'-8"	2,592	2HP	1,350	1HP	1,000,000	0.33HP	1,000	1.5" NPT	1,000	630
BO-VHD-06-06-14-SE	6'-0"	6'-0"	14'-0"	6'-8"	7'-10"	19'-8"	10'-8"	7'-10"	14'-8"	3,024	3HP	1,350	1HP	1,000,000	0.33HP	1,200	1.5" NPT	1,000	630
BO-VHD-06-06-16-SE	6'-0"	6'-0"	16'-0"	6'-8"	7'-10"	20'-8"	10'-8"	7'-10"	16'-8"	3,456	3HP	1,350	1HP	1,000,000	0.33HP	1,300	1.5" NPT	1,000	630
BO-VHD-06-07-06-SE	6'-0"	7'-0"	6'-0"	6'-8"	8'-10"	10'-8"	10'-8"	8'-10"	6'-8"	1,512	1.5HP	675	1HP	500,000	0.33HP	600	1" NPT	500	315
BO-VHD-06-07-08-SE	6'-0"	7'-0"	8'-0"	6'-8"	8'-10"	12'-8"	10'-8"	8'-10"	8'-8"	2,016	2HP	700	1HP	500,000	0.33HP	700	1" NPT	500	315
BO-VHD-06-07-10-SE	6'-0"	7'-0"	10'-0"	6'-8"	8'-10"	14'-8"	10'-8"	8'-10"	10'-8"	2,520	2HP	1,350	1HP	1,000,000	0.33HP	1,000	1.5" NPT	1,000	630
BO-VHD-06-07-12-SE	6'-0"	7'-0"	12'-0"	6'-8"	8'-10"	16'-8"	10'-8"	8'-10"	12'-8"	3,024	3HP	1,350	1HP	1,000,000	0.33HP	1,100	1.5" NPT	1,000	630
BO-VHD-06-07-14-SE	6'-0"	7'-0"	14'-0"	6'-8"	8'-10"	18'-8"	10'-8"	8'-10"	14'-8"	3,528	3HP	1,375	1HP	1,000,000	0.33HP	1,300	1.5" NPT	1,000	630
BO-VHD-06-07-16-SE	6'-0"	7'-0"	16'-0"	6'-8"	8'-10"	20'-8"	10'-8"	8'-10"	16'-8"	4,032	5HP	1,375	1HP	1,000,000	0.33HP	1,500	1.5" NPT	1,000	630
BO-VHD-06-08-06-SE	6'-0"	8'-0"	6'-0"	6'-8"	9'-10"	10'-8"	10'-8"	9'-10"	6'-8"	1,728	1.5HP	700	1HP	500,000	0.33HP	700	1" NPT	500	315
BO-VHD-06-08-08-SE	6'-0"	8'-0"	8'-0"	6'-8"	9'-10"	12'-8"	10'-8"	9'-10"	8'-8"	2,304	2HP	700	1HP	500,000	0.33HP	900	1" NPT	500	315
BO-VHD-06-08-10-SE	6'-0"	8'-0"	10'-0"	6'-8"	9'-10"	14'-8"	10'-8"	9'-10"	10'-8"	2,880	2HP	1,350	1HP	1,000,000	0.33HP	1,100	1.5" NPT	1,000	630
BO-VHD-06-08-12-SE	6'-0"	8'-0"	12'-0"	6'-8"	9'-10"	16'-8"	10'-8"	9'-10"	12'-8"	3,456	3HP	1,375	1HP	1,000,000	0.33HP	1,300	1.5" NPT	1,000	630
BO-VHD-06-08-14-SE	6'-0"	8'-0"	14'-0"	6'-8"	9'-10"	18'-8"	10'-8"	9'-10"	14'-8"	4,032	5HP	1,375	1HP	1,000,000	0.33HP	1,500	1.5" NPT	1,000	630
BO-VHD-06-08-16-SE	6'-0"	8'-0"	16'-0"	6'-8"	9'-10"	20'-8"	10'-8"	9'-10"	16'-8"	4,608	5HP	1,375	1HP	1,000,000	0.33HP	1,700	1.5" NPT	1,000	630
BO-VHD-07-07-07-SE	7'-0"	7'-0"	7'-0"	7'-8"	8'-10"	11'-8"	11'-8"	8'-10"	7'-8"	2,058	2HP	700	1HP	500,000	0.33HP	800	1" NPT	500	315
BO-VHD-07-07-08-SE	7'-0"	7'-0"	8'-0"	7'-8"	8'-10"	12'-8"	11'-8"	8'-10"	8'-8"	2,352	2HP	700	1HP	500,000	0.33HP	900	1" NPT	500	315
BO-VHD-07-07-10-SE	7'-0"	7'-0"	10'-0"	7'-8"	8'-10"	14'-8"	11'-8"	8'-10"	10'-8"	2,940	3HP	1,350	1HP	1,000,000	0.33HP	1,100	1.5" NPT	1,000	630
BO-VHD-07-07-12-SE	7'-0"	7'-0"	12'-0"	7'-8"	8'-10"	16'-8"	11'-8"	8'-10"	12'-8"	3,528	3HP	1,375	1HP	1,000,000	0.33HP	1,300	1.5" NPT	1,000	630
BO-VHD-07-07-14-SE	7'-0"	7'-0"	14'-0"	7'-8"	8'-10"	18'-8"	11'-8"	8'-10"	14'-8"	4,116	5HP	1,375	1HP	1,000,000	0.33HP	1,500	1.5" NPT	1,000	630
BO-VHD-07-07-16-SE	7'-0"	7'-0"	16'-0"	7'-8"	8'-10"	20'-8"	11'-8"	8'-10"	16'-8"	4,704	5HP	1,375	1HP	1,000,000	0.33HP	1,700	1.5" NPT	1,000	630
BO-VHD-08-08-08-SE	8'-0"	8'-0"	8'-0"	8'-8"	9'-10"	12'-8"	12'-8"	9'-10"	8'-8"	3,072	3HP	1,350	1HP	1,000,000	0.33HP	1,000	1.5" NPT	1,000	630
BO-VHD-08-08-10-SE	8'-0"	8'-0"	10'-0"	8'-8"	9'-10"	14'-8"	12'-8"	9'-10"	10'-8"	3,840	5HP	1,375	1HP	1,000,000	0.33HP	1,300	1.5" NPT	1,000	630
BO-VHD-08-08-12-SE	8'-0"	8'-0"	12'-0"	8'-8"	9'-10"	16'-8"	12'-8"	9'-10"	12'-8"	4,608	5HP	1,375	1HP	1,000,000	0.33HP	1,500	1.5" NPT	1,000	630
BO-VHD-08-08-14-SE	8'-0"	8'-0"	14'-0"	8'-8"	9'-10"	18'-8"	12'-8"	9'-10"	14'-8"	5,376	7.5HP	1,400	1HP	1,000,000	0.33HP	1,800	1.5" NPT	1,000	630
BO-VHD-08-08-16-SE	8'-0"	8'-0"	16'-0"	8'-8"	9'-10"	20'-8"	12'-8"	9'-10"	16'-8"	6,144	7.5HP	1,400	1HP	1,000,000	0.33HP	2,000	1.5" NPT	1,000	630
BO-VHD-08-08-20-SE	8'-0"	8'-0"	20'-0"	8'-8"	9'-10"	24'-8"	12'-8"	9'-10"	20'-8"	7,680	7.5HP	2,075	1HP	1,500,000	0.33HP	2,500	1.5" NPT	1,500	945
BO-VHD-08-10-08-SE	8'-0"	10'-0"	8'-0"	8'-8"	11'-10"	12'-8"	12'-8"	11'-10"	8'-8"	3,840	3HP	1,375	1HP	1,000,000	0.33HP	1,300	1.5" NPT	1,000	630
BO-VHD-08-10-10-SE	8'-0"	10'-0"	10'-0"	8'-8"	11'-10"	14'-8"	12'-8"	11'-10"	10'-8"	4,800	5HP	1,400	1HP	1,000,000	0.33HP	1,600	1.5" NPT	1,000	630
BO-VHD-08-10-12-SE	8'-0"	10'-0"	12'-0"	8'-8"	11'-10"	16'-8"	12'-8"	11'-10"	12'-8"	5,760	7.5HP	1,400	1HP	1,000,000	0.33HP	1,900	1.5" NPT	1,000	630
BO-VHD-08-10-14-SE	8'-0"	10'-0"	14'-0"	8'-8"	11'-10"	18'-8"	12'-8"	11'-10"	14'-8"	6,720	7.5HP	1,425	1HP	1,000,000	0.33HP	2,200	1.5" NPT	1,000	630
BO-VHD-08-10-16-SE	8'-0"	10'-0"	16'-0"	8'-8"	11'-10"	20'-8"	12'-8"	11'-10"	16'-8"	7,680	7.5HP	2,075	1HP	1,500,000	0.33HP	2,500	1.5" NPT	1,500	945
BO-VHD-10-10-10-SE	10'-0"	10'-0"	10'-0"	10'-8"	11'-10"	14'-8"	14'-8"	11'-10"	10'-8"	6,000	7.5HP	1,400	1HP	1,000,000	0.33HP	3,700	1.5" NPT	1,000	630
BO-VHD-10-10-12-SE	10'-0"	10'-0"	12'-0"	10'-8"	11'-10"	16'-8"	14'-8"	11'-10"	12'-8"	7,200	7.5HP	1,425	1HP	1,500,000	0.33HP	4,500	1.5" NPT	1,000	630
BO-VHD-10-10-14-SE	10'-0"	10'-0"	14'-0"	10'-8"	11'-10"	18'-8"	14'-8"	11'-10"	14'-8"	8,400	7.5HP	2,100	1HP	1,500,000	0.33HP	5,300	1.5" NPT	1,500	945

Alternative Configuration: Double Entry (DE)

### Col-Met Engineered Finishing Solutions

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