ADVANCED BLENDING SOLUTIONS LLC

Tomorrow's challenges solved today.

DESICCANT DRYERS

TD-SERIES

The Thermal-D's totally closed loop non valve drying system is engineered to prevent moisture, dirt, and other substances from contaminating processed materials. The ProTek micro-processor controlled drying system is completely automatic and self diagnostic. The indexing triple desiccant bed design provides greater absorbing capacity and efficient drying, while using less power and desiccant. This design also allows the dryer to use the residual regeneration heat that is recovered from cool-down to preheat the process-air flow — making the unit extremely energy efficient. Cool-down takes place in the process steam, which creates an economical, extremely dry desiccant with increased moisture absorbing capacity. With this revolutionary system, heat that would normally be wasted is now reclaimed and used in the drying process.

FEATURES:

- **CENTRALIZED, SIMULTANEOUS DRYING OF MULTIPLE RESINS WITH 2,000+ LB THROUGHPUT CAPACITY.**
- **EXTRA-LARGE FILTERS ENSURE CLEAN DRYING AIR AND PREVENT DESICCANT CONTAMINATION.**
- **STATIC SEALS PREVENT LEAKAGE AND CROSS-CONTAMINATION WHILE ELIMINATING WEAR AND LUBRICATION ISSUES**
- **CYLINDRICAL DESICCANT BED PROVIDES INCREASED MOISTURE ABSORBING CAPACITY**
- **TWO HIGH-PRESSURE BLOWERS FOR OPTIMAL HOPPER AIRFLOW AND DESICCANT REGENERATION**

WWW.ADV-BLEND.COM | **PHONE:** 906-914-4180 | **TOLL-FREE:** 888-204-5080

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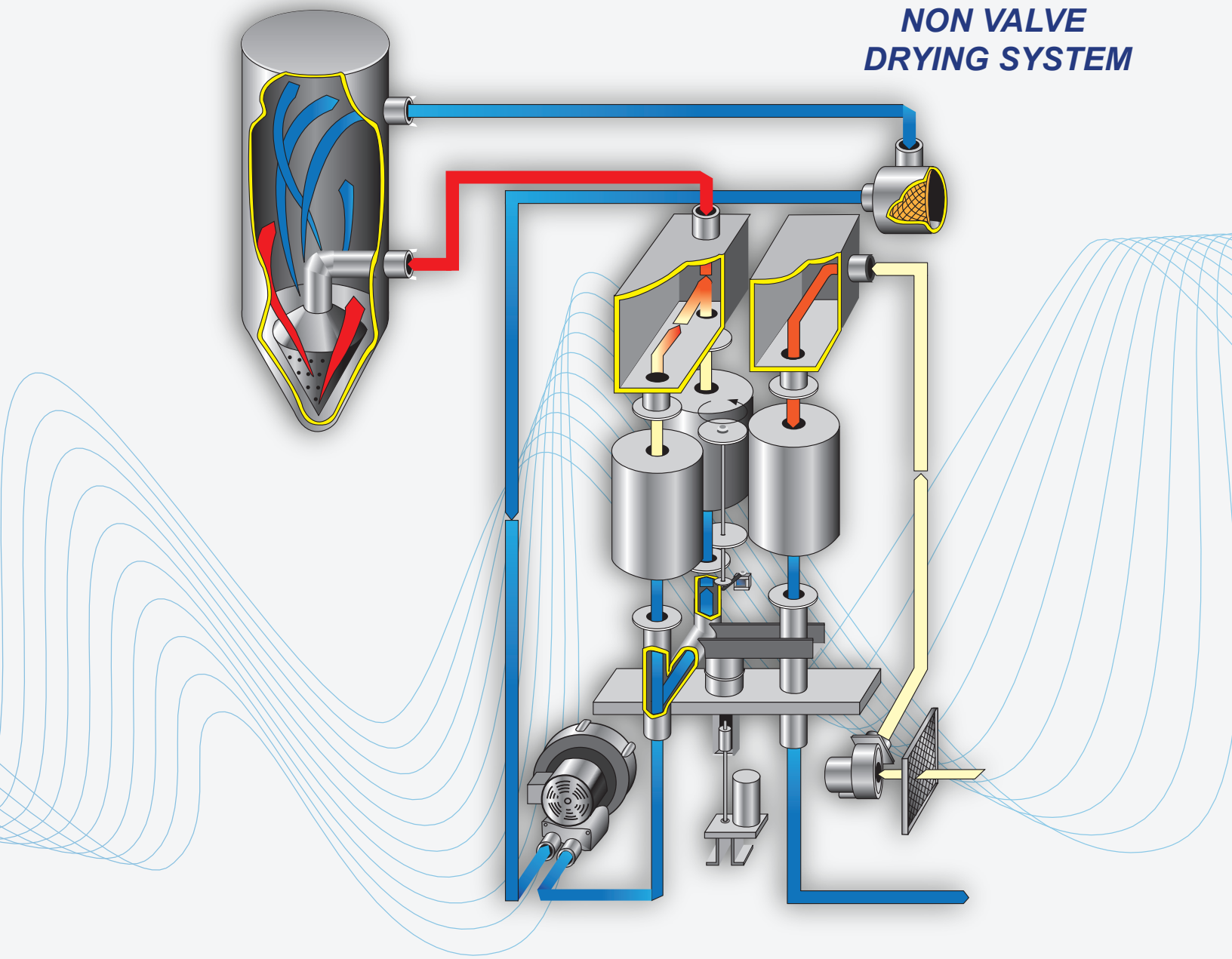
TD-SERIES DESICCANT DRYERS

CLOSED LOOP NON VALVE DRYING SYSTEM



Heat energy from the regeneration cycle is recovered and reintroduced into the process air stream to maximize energy efficiency. Counter-flow regeneration ensures consistent performance, maintaining a -40˚ dew point or lower even in demanding, high-humidity conditions, while filtered regen air protects the desiccant bed from contamination. The drying hopper is designed to fit all molding machines and extrusion lines, eliminating material and air channeling with a diffuser cone that delivers thorough, bottom-to-top drying—preventing wasted resin and unnecessary purge reloads at startup.

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PROTEK CONTROLS

The Protek easy-to-program HMI Interface Control Panel keeps the operator completely informed of the current condition of resin material being processed.

On medium to large capacity dryers the controls are mounted in an oil and dust tight NEMA-12 electrical enclosure. Organized for simplicity and efficiency, the control panel has a plug-in modules, numbered terminal-strips and clear, concise, ladder-type wiring diagrams. All operator interface controls for the Protek are on the front panel, so the door remains closed during operation.

STANDARD FEATURES

- Dewpoint meter with energy saving shift control
- Graphing of dewpoint readings over an 8 hour period
- Graphing of four temperature readings, process, return air, regeneration, and regeneration exhaust
- Easy to follow flow schematic monitor screen
- 7 day timer with multiple temperature set-points
- Dirty filter alarm
- Regeneration heater fault indicator
- Blower direction indicator
- High dew point alarm

DRYER UNIT OPTIONS

Delta Temperature
By continuously monitoring hopper air inlet and air outlet temperatures through a Delta T function, you are assured dried resin for process or allowed to reduce the process air temperature to a maintenance set point - avoiding material over dry and material degradation.

Regeneration Power Saver
A power saving regeneration heater shut down service that senses when the regeneration cycle is complete. (Standard on TD480 and up)

High Heat
High process air heat with return air after cooler for high temperature material dry applications.

Low Temperature
Process air precooler for low temperature material dry applications.

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TD-SERIES DESICCANT DRYERS

ITEM	DESCRIPTION*	ORDER CODE
Desiccant Dryer	24 pph	TD-24
	40 pph	TD-40
	60 pph	TD-60
	90 pph	TD-90
	120 pph	TD-120
	180 pph	TD-180
	240 pph	TD-240
	360 pph	TD-360
	480 pph	TD-480
	575 pph	TD-575
	800 pph	TD-800
	1500 pph	TD-1000
	2000 pph**	TD-1500
	After cooler add-on	TD-2000
	Pre-cooler add-on	TDACC-AC
	After use desiccant bed add-on	TDACC-BED
	Dew point sensor add-on	TDACC-DEW-UPG
Power Supply	230V	230
	460V	460
	600V	600

Insert Order Code Selections to Create Part Number: TD -_____-_____-_____

**All rates are estimates, rates will vary based on material type.*

Casters are standard on TD-360 and under.

Temp > 240° requires an aftercooler.

Plasticizer traps (optional).