

Air Treatment Centers/Desiccant

- Complies with NFPA 99.
- Purge controller minimizes medical air usage.
- Single point plumbing connections.

DESCRIPTION

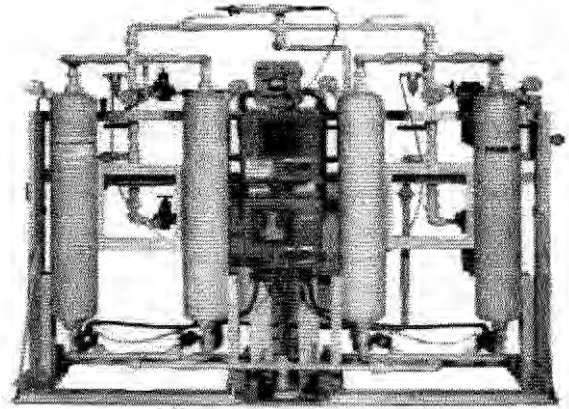
The Desiccant Air Treatment Center by Chemetron is designed for long life and ease of maintenance. The ATC system is a prepackaged unit incorporating all dryers, filters, regulators, monitors and bypass valving required for the treatment of medical air per NFPA-99 recommendations. The design is such that any component may be used with any other and not affect system performance.

The ATC consists of two full-size desiccant air dryers, two inline pre-filters, two inline after-filters, two pressure regulators, a dew point monitor, a carbon monoxide monitor, a pressure alarm switch, an outlet pressure gauge and all necessary isolation valves. All components are packaged in a space-saving configuration, mounted to a welded steel frame capable of fitting through a standard 36" wide door. The ATC requires only two piping connections (inlet and outlet) and one electrical connection. All interconnecting piping is copper or brass with brazed connections.

The twin tower desiccant dryers are mounted in parallel and are valved so that each dryer can be easily isolated from the system. The dryers are regenerative with full size pressure vessels and activated alumina desiccant. Each dryer maintains a constant 40° pressure dew point. The purge controller continuously monitors the exact dew point and adjusts the amount of purge air required to completely regenerate the system, thus reducing the load on the air compressors. The purge air control valves are rated for 5 million cycles. The maximum working pressure is 150 psig @ 120° F.

The duplexed coalescing dryer pre-filters are rated for 0.01 micron removal of solid particles and 99.999+% of oil aerosols, to protect the desiccant bed from contamination. The pre-filters are equipped with internal automatic float drain and a differential pressure gauge for filter change indication.

The duplexed particulate dryer after-filters are rated for 1.0 micron removal of solid particles, to prevent desiccant dust carry over into the medical air stream.



After filters are equipped with a differential pressure gauge for filter change indication.

The medical air line regulators are capable of reducing inlet medical air pressure to an outlet range of 0-125 psig. Each regulator is self relieving, diaphragm operated, with zinc body. The outlet pressure is controlled by a T-handle and the unit incorporates an outlet pressure gauge.

The system is equipped with monitors to display the pressure dew point as well as carbon monoxide levels in the medical air stream. The dew point monitor utilizes aluminum oxide to measure dew point through changes in the electrical resistance of the sensor element. Additionally, the dew point monitor continuously monitors and controls the exact dew point and adjusts the amount of purge air required to completely regenerate the system, thus reducing the total run time of the compressed medical air system. The carbon monoxide monitor uses a sensor that analyzes the medical air and produces a small voltage proportional to the amount of carbon monoxide in the sample gas. Both monitors are equipped with audible and visual alarms and dry contacts for remote alarm connection along with a test/reset button.

The ATC is shipped with an alarm pressure switch for contractor installation downstream of the system source valve. The pressure switch is capable of sending a signal to a remote alarm indicating abnormal system pressure. A pressure gauge is installed at the outlet of the system. A pressure relief valve, set at 75psi, is installed at the system outlet.

Air Treatment Centers/Desiccant

Standard System Components

- Complies with NFPA 99 recommended guidelines.
- Duplexed 0.01 micron coalescing pre-filters with differential pressure indicators and float drain.
- Duplexed 1 micron after-filters with differential pressure indicators.
- Full-port ball valves with Teflon seats used for isolation of components.
- Purge control minimizes purge air required.
- Carbon Monoxide and Dewpoint alarms are equipped with contacts for connection to master alarm system.
- Space-saving design allows all models to fit through a standard 36" door.
- Single point plumbing connections (inlet & outlet).

System Selection Chart

Catalog Number	Model #	Dryer Capacity*	Voltage
#32-63-13-8010	ATC-10DPC	10 SCFM	115/1/60
#32-63-13-8015	ATC-15DPC	15 SCFM	115/1/60
#32-63-13-8025	ATC-25DPC	25 SCFM	115/1/60
#32-63-13-8040	ATC-40DPC	35 SCFM	115/1/60
#32-63-13-8050	ATC-50DPC	50 SCFM	115/1/60
#32-63-13-8075	ATC-75DPC	75 SCFM	115/1/60
#32-63-13-8100	ATC-100DPC	100 SCFM	115/1/60
#32-63-13-8150	ATC-150DPC	150 SCFM	115/1/60
#32-63-13-8200	ATC-200DPC	200 SCFM	115/1/60
#32-63-13-8250	ATC-250DPC	250 SCFM	115/1/60

*Rated Capacity is at 100 psi inlet pressure and 100° F maximum ambient.

Electrical Options

- Differential pressure switch
- Step-down transformers
- Disconnect panel with alarm station
- Disconnect panel with alarm station and step-down transformers
- Tower switch failure alarm
- Active tower lights

System Options

- Electric-timed solenoid drains
- Chilled mirror dewpoint monitor
- 0.01 Micron activated carbon after-filters
- Other _____

Air Treatment Centers/Refrigerated

DESCRIPTION:

The Chemetron Refrigerated Air Treatment Center designed for flexibility and ease of installation. The ATC system is a totally packaged unit incorporating all dryers, filters, regulators, monitors and bypass valving required for the treatment of medical air recommended by NFPA-99.

The ATC consists of two refrigerated medical air dryers, two inline medical air filters, two pressure regulators, a dew point monitor, a carbon monoxide monitor, a pressure alarm switch, inlet/outlet pressure gauges and all necessary isolation valves. The components are mounted in space-saving stacked configuration, with all components mounted to a welded steel frame. The ATC requires only two piping connections (inlet an outlet) and one electrical connection. All interconnecting piping is brass or copper with brazed connections. The components are arranged such that any component may be used with any other during maintenance.

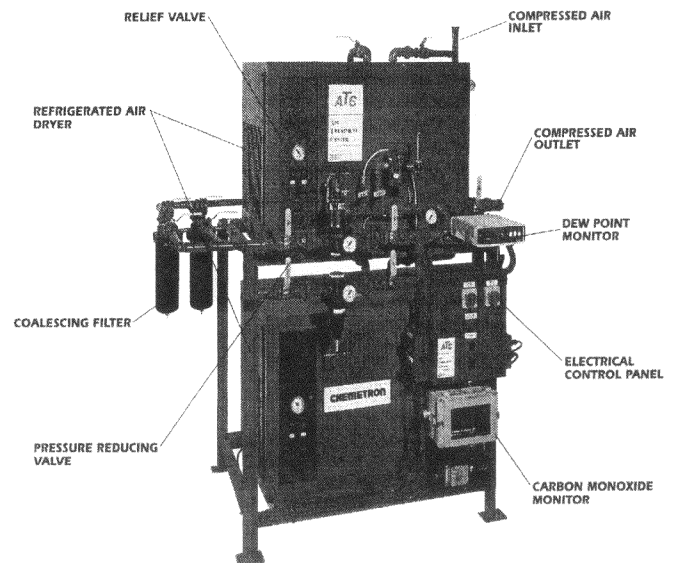
The refrigerated dryers are mounted in parallel and are valved so that each dryer can be easily isolated from the system. The dryers are non-cycling type, complete with large air-to-air heat exchangers to maximize pre-cooling and minimize heat load on the refrigeration system. The unit includes a hot gas bypass valve, an integral two-stage filter/separator and programmable electric automatic condensate drain. Each dryer maintains a constant 35° to 39° F pressure-dew point at the rated capacity of the dryer. The maximum working pressure is 150 psig @ 120° F.

The line filters are capable of removing all solid particles, .01 microns and larger, and 99.9% of oil aerosols. The filters are mounted in parallel and valved for isolation from the system. Each filter is equipped with an internal automatic float drain and a color differential pressure indicator.

The two medical air line regulators are capable of reducing inlet pressure to an outlet range of 0-125 psig. The regulators are mounted in parallel and valved for ease of isolation from the system.

The ATC is equipped with monitors to display the pressure dew point as well as carbon monoxide levels in the medical air stream. The dew point monitor is of the aluminum oxide type (chilled mirror type available as an option). Both monitors are equipped with audible and visual alarms and dry contacts for remote alarm connection along with a test/reset button.

The ATC will be shipped with an alarm pressure switch for contractor installation downstream of the system source valve (not included). The pressure switch is capable of sending a signal to a remote alarm indicating abnormal system pressure. A pressure gauge is installed at the inlet and outlet of the system. A pressure relief valve, set at 75psi, is installed at the system outlet.



ELEMENTS:

- Completely packaged medical air treatment to meet NFPA 99 recommendations.
- Single point plumbing connections.
- Fully duplexed assembly for ease of maintenance.

Air Treatment Centers/Refrigerated

Standard System Components

- Duplexed 0.01 micron coalescing line filters with differential pressure indicators and float drain.
- Dryers equipped with integral 3 micron separator/filter and programmable condensate drain.
- Inlet and outlet pressure gauges.
- CO and Dewpoint alarms are equipped with contacts for connection to master alarm system.
- Single point plumbing connections (inlet & outlet).
- Full-port ball valves with Teflon seats used for isolation of components.

Electrical Options

- Control Panel, Option #1

Pre-wired NEMA 1 Control Panel equipped with:

- 2 Non-fused disconnect switches
- Audible alarm with silence button
- Abnormal pressure alarm with light and connection for remote annunciation.
- Pre-wired for single point electrical connection

- Control Panel, Option #2

Pre-wired NEMA 1 Control Panel equipped with:

- 2 Non-fused disconnect switches
- 2 Step-down transformers
- Audible alarm with silence button
- Abnormal pressure alarm with light and connection for remote annunciation

Additional Electrical Options

- Differential pressure switch (unwired)
- Step-down transformer
- Pre-wired differential pressure switch*
- Other _____

Filter Options

- 1 Micron Pre-filters
- Electric timed solenoid drains
- 0.01 Micron activated carbon after filters

*Available only with Control Panel Option 1 or 2

ALL PART NUMBERS PREFIXED BY #32-

System Selection Chart

	Catalog Number	Model #	Dryer Capacity*	Dryer Horsepower	Dryer Voltage (indicate required voltage)
	63-13-7010	ATC-10	10 SCFM	1/6 HP	___ 115 ___ 230 /1/ 60
	63-13-7015	ATC-15	15 SCFM	1/5 HP	___ 115 ___ 230 /1/ 60
	63-13-7025	ATC-25	25 SCFM	1/5 HP	___ 115 ___ 230 /1/ 60
	63-13-7035	ATC-35	35 SCFM	1/5 HP	___ 115 ___ 230 /1/ 60
	63-13-7050	ATC-50	50 SCFM	1/4 HP	___ 115 ___ 230 /1/ 60
	63-13-7075	ATC-75	75 SCFM	1/3 HP	___ 115 ___ 230 ___ 208 /1/ 60
	63-13-7100	ATC-100	100 SCFM	1/2 HP	___ 115 ___ 230 ___ 208 /1/ 60
	63-13-7125	ATC-125	125 SCFM	3/4 HP	___ 115 ___ 230 ___ 208 /1/ 60
	63-13-7150	ATC-150	150 SCFM	3/4 HP	___ 115 ___ 230 ___ 208 /1/ 60
	63-13-7200	ATC-200	200 SCFM	1 HP	___ 230 ___ 460 /1/ 60

* Rated Capacity is at 100 psi inlet pressure and 100° F maximum ambient