



Refrigerated Air Treatment Center

GENERAL

The Chemetron® medical refrigerated air treatment center is designed to provide medical breathing air for hospital and medical institutions. This system meets NFPA 99 requirements for Level 1 breathing air.

AIR PURIFICATION PACKAGE

The air purification package shall be sized in conformance with NFPA 99 specifications and consist of the following: dual refrigerated air dryers, dual filter and regulator banks with sample ports, dew point and CO monitors with alarms, and all bypass piping. Piping to be brass, stainless, or type K copper, and cleaned for medical air use. All components shall be mounted piped and wired to a common skid.

REFRIGERATED AIR DRYERS

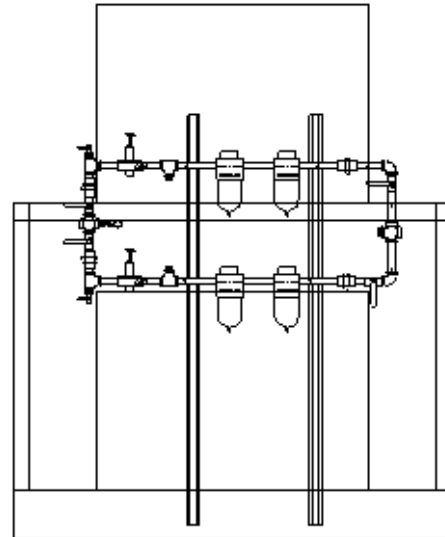
The refrigerated air dryers are non-cycling, direct expansion type, using R-134 A refrigerant (CFC free). A hot gas by-pass system maintains a consistent temperature at all load conditions. Heat exchangers are made of copper tube construction and fully insulated. Dryers shall have power on and high temperature lights, suction pressure gauge, internal 3-micron filter/separator with stainless steel bowl, and timed electric condensate drain.

FILTRATION / PRV VALVES

A duplexed set of filters and regulators shall be provided with block-and-bypass valves, such that one bank can be serviced without disrupting the flow of air to the system. Each bank shall have a .5 micron coalescing filter equipped with differential pressure indicators, an activated carbon filter, and an adjustable pressure regulator with gauge. A 75 psig safety valve is provided at the final outlet along with sample ports for CO and dew point monitors.

DEW POINT MONITOR

The system integrated hygrometer shall be equipped with a °C/°F/ LCD display, audible and visual alarms for high dew point, and dry contacts for remote alarm monitoring. High dew point alarm is user adjustable and factory set at +35 degrees F per NFPA 99 standards.



CARBON MONOXIDE MONITOR

The carbon monoxide (CO) monitor is provided in an enclosure with LCD display of CO concentrations. The monitor shall continuously display the CO content of the discharge air and shall provide audible and visual high CO alarms. High alarm is set at 10 ppm per NFPA 99. Dry contacts are provided for remote monitoring of the high CO alarm.

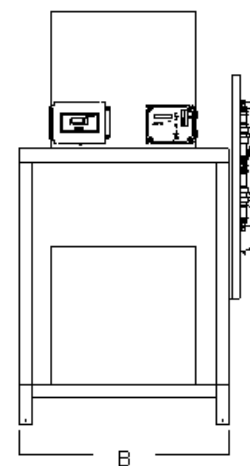
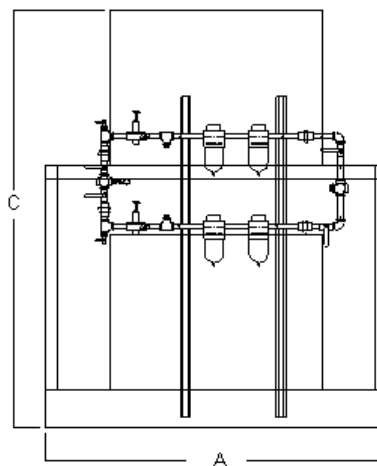
Product Specification

Refrigerated Air Treatment Center



DIMENSIONS					
MODEL	DIM. A	DIM. B	DIM. C	Inlet x 1	Outlet x 1
RATC-1	55"	40"	56"	3/8"	3/8"
RATC-2	55"	40"	56"	3/8"	1/2"
RATC-3	55"	40"	56"	3/8"	1/2"
RATC-4	55"	40"	63"	3/4"	1/2"
RATC-5	55"	40"	63"	3/4"	1/2"
RATC-6	55"	40"	67"	1"	3/4"
RATC-7	55"	40"	67"	1"	1-1/2"
RATC-8	55"	40"	67"	1-1/2"	1-1/2"
RATC-9	55"	40"	67"	1-1/2"	1-1/2"

Refrigerated Dryer		
MODEL	CFM @ 100 PSI	SYSTEM WEIGHT
RATC-1	5	500
RATC-2	10	520
RATC-3	15	550
RATC-4	25	675
RATC-5	35	700
RATC-6	50	830
RATC-7	75	935
RATC-8	100	1,015
RATC-9	125	1,035



All specifications are nominal and subject to change without notice.

Warranty: See Allied Statement of Warranties for details.

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