



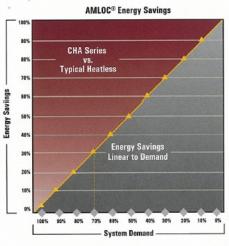


CHA Series – The Original Heat-Les™ Drying Technology

Annual Energy Savings

Average Demand	scfm	Typical Heatless Design cost of 15% purge	CHA Series w/AMLOC® controls cost of purge	Energy Savings with CHA Series	
100%	3600	\$70,578	\$70,578		
85	3060	70,578	59,991	\$ 10,587	
70	2520	70,578	49,404	21,174	
50	1800	70,578	35,289	35,289	
35	1260	70,578	24,702	45,876	
20	720	70,578	14,116	56,462	

Assumes 5 scfm per HP, 8760 hours of operation per year, 10 cents per kW/h



CHA Series with AMLOC®

Typical Heatless Design (requires 15% purge air)



Since 1946, the world has turned to PNEUMATIC PRODUCTS for the quality and service demanded by the most critical of applications. Global leaders of industry require durable components that deliver unquestionable reliability. Our precision engineered components and designs, deliver outstanding service life and operational longevity. Invest in our experience and gain annuities that will grow for years.

Simplicity and Versatility - Legendary Design

PNEUMATIC PRODUCTS Heat-Les™ technology is the model of simplicity and the origin of the most common design in use today. CHA Series dryers offer versatility of application as they excel in hostile environments where corrosive, toxic or explosive elements exist.

Everyone knows, heat rises. Our legendary down flow drying process takes advantage of that principle in storing the heat of adsorption. In regeneration mode, a side-stream of dried process air with an affinity for moisture, leverages the heat of adsorption to dry the off-line desiccant chamber. Exceptional dew point stability to -100°F (-73°C) is achieved.

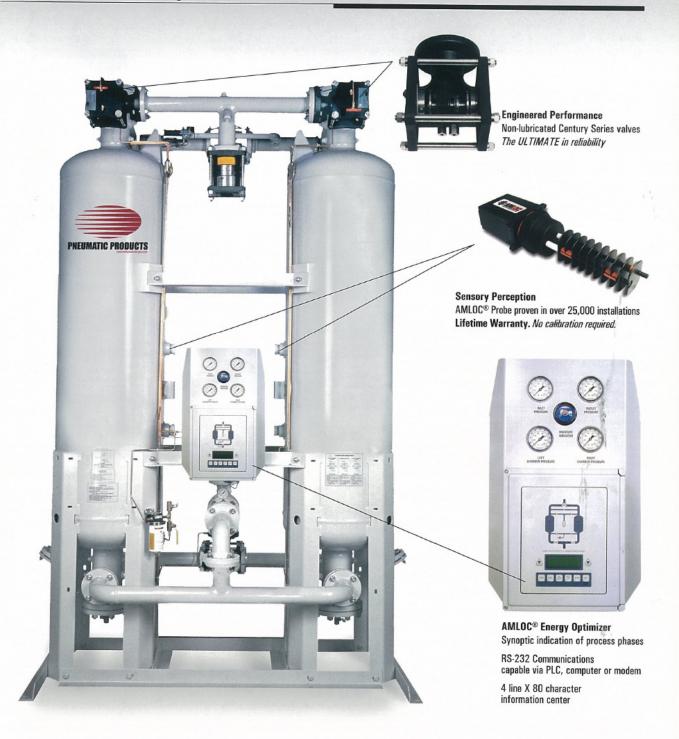
Patented Process Quality Valves - Engineered Simplicity

Standard off-the-shelf valves were not good enough for critical applications so we engineered our own. Tested under adverse conditions without failure in excess of 500,000 cycles, our full port, air-operated Century Series poppet valves feature stainless steel internals. Protected against wear, a friction-free PTFE coating is applied to all wear surfaces. Corrosion resistant and non-lubricated, these valves were engineered to withstand elevated temperatures, clogging, and erosion caused by abrasive desiccant dust. These are the best valves in the industry - period.

Patented Automated Moisture Load Control (AMLOC®)

Today's air system auditors know that it is rare to find a dryer that operates under full-load conditions. That is why AMLOC® is standard equipment on every CHA Series dryer we build. AMLOC® energy management systems generate tens-of-thousands of dollars in energy saving annuities for industry leaders. Our PTFE coated stainless steel capacitance probes sense the dielectric strength imparted upon the desiccant by the extracted water vapor. Capable of identifying an aging or fouled bed, the heating and purge cycles are managed with precision. AMLOC® reduces cycle frequency to extend component life and ensures consistent dew points.

CHA Series – Key Product Features





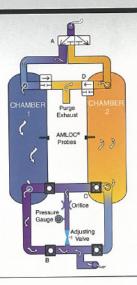


Functions, Features, and Specifications

How it Works

Moist, filtered compressed air enters down flow drying Chamber 1 via valve (A). Water vapor is adsorbed onto the desiccant and dry compressed air exits through valve (B), abrasive desiccant dust is captured by an afterfilter when supplied. In regeneration mode, a side-stream of dried process air (C) with an affinity for moisture, leverages the heat of adsorption to desorb off-line desiccant Chamber 2. Water vapor releases from the desiccant and evacuates through valve (D) our spring loaded flow restrictor controls the rate of depressurization to prevent bed fluidization. Once desorbed, valve (D) closes and Chamber 2 is repressurized. No further energy will be consumed until AMLOC® determines the on-line bed is fully utilized, whereupon, operations will switch and Chamber 1 will be regenerated.

AMLOC® governs this process with precision. Patented capacitance probes sense the dielectric strength water vapor imparts on the desiccant. Low moisture loads extend the drying cycle while eliminating energy use. Fewer flow reversals yields longer desiccant and valve life. Serious performance, reliability and energy savings result as energy consumption mirrors plant air usage.



Product Features AMLOC® Information Center **Alarm Protection Parameters** ADC Control System w/ AMLOC® Intelligence Probe Desiccant Indicator Patented History Log Back-lit LCD 4 Categories: Display Reminders: Warning PTFF Coated. Premium Extended Drying RS-232 Port-Stores 20 Class 1, Aguadex® Management With Active Dryer Status, Depressurization AMLOC® Groups C & D, Diverse Lighting Service, History, Visual Clarity In Valves. Grade/ & Alarm Stainless Cycles - Long Communications Events -System Repressurization Failure, High Visual, Color Activated Desiccant. Component Life Capable Simplifies On-line Pressure, Illumination Conditions Configuration Capacitance Δlumina Filters Trouble LEDs Sensor S 0 = Option

Engineering Data

S = Standard

	Inlet F	Inlet Flow ¹ @ 100 psig, 100°F		System ²					17
Model	@ 100 psi			Dimensions		Approx.	Inlet/Outlet	Mounted Filtration	
	-40°F	-100°F	н	inches W	D	Weight lbs.	Connections inches	Prefilter	Afterfilter
2000CHA	2,000	1,200	139	81	78	4,700	4" FLG	PCC124004SU	PCC124004AF
2500CHA	2,970	1,470	140	91	87	6,500	6" FLG	PCC136003SU	PCC136003AF
3000CHA	2.970	1,770	142	92	87	6,600	6" FLG	PCC136003SU	PCC136003AF
3600CHA	4.270	2,505	148	107	94	9,500	6" FLG	PCC148004SU	PCC148004AF
4900CHA	5,810	3,480	159	128	103	15.500	6" FLG	PCC160005SU	PCC160005AF
6400CHA	7.600	4,560	165	145	111	17,200	8" FLG	PCC172006SU	PCC172006AF
	9,680	5,820	179	170	127	24.000	8" FLG	PCC196008SU	PCC196008AF
8100CHA	11.940	7.164	CF	CF	CF	CF	10" FLG	PCC11600015SU	PCC11600015AF
10000CHA 12100CHA	14,450	8.670	CF	CF	CF	CF	10" FLG	PCC11600015SU	PCC11600015AF
IZIUUCHA	14,400	0,070	01	J.	-				/27 GOCI ambient temperature

1 Performance data per CAGI Standard ADF 200 for Dual-Tower Regenerative Desiccant Compressed Air Dryer. Rating conditions are 100°F (37.8°C) inlet 100 psig (6.9 bar) inlet pressure, 100% relative humidity, 100°F ² Dimensions, Weights & Inlet/Outlet Connections based on F-O1 pre-piped filter options

Consult factory for sizing assistance. Larger models available. CF - Consult factory



ements and research are continuous at SPX Pneumatic Products Specifications may change without notice.

Bulletin PIS-131 e

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