



Highest Efficiency • Oil-Free • Reliable Control
 At Arctic Cool we have some of the most experienced people with Turbocor chiller manufacturing experience. When we launched our air cooled line, we applied what has been learned from the beginning.

- Dedicated circuits assure ultimate control to eliminate staging and migration issues.
- Danfoss controller prevents non-standard operation.
- Standard receivers and sub-coolers assure superior capacity and efficiency in most applications.



Your Danfoss MCX Adaptive Controller Advantage
 Arctic Cool chillers leverage the Danfoss MCX adaptive logic controller. This is a compressor specific controller developed by Danfoss to properly operate their Turbocor compressor at maximum efficiencies and reliably within its envelope to avoid operating conditions that sacrifice efficiency and reliability. The ultimate Turbocor controller.

Oil-Free Means *SUSTAINABLE* operation.

Oil changes the heat transfer rate and increases fluid viscosity. It lodges in the tube wall enhancements of heat exchangers and over a few years builds an insulating barrier layer that prevents optimal heat transfer. ASHRAE proved it in a study. Some estimate the amount of degradation can be above 20% depending on the amount of oil. Having *no* oil results in a sustainable system from the first day onward.

Oil service and oil related repairs are also the number one service and maintenance cost to owners of air cooled chillers with traditional lubricated compressors. Owner advantages including reduced energy and lowest cost of maintenance are successfully achieved.



NEW ArcticJACE Tridium Controllers

For larger chillers up to 12 compressors and for seamless integration with our Tridium plant controllers.

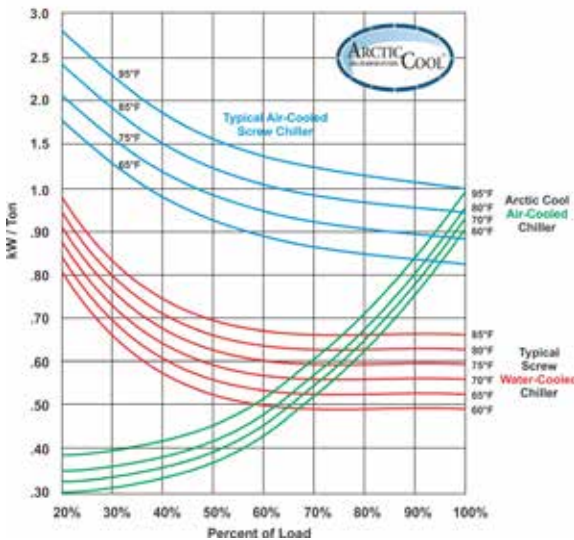


PRODUCT BULLETIN - Air Cooled Chillers



Air Cooled Oil Free Flooded Chillers	Nom Tons	Fans	IPLV kW/Ton	Compressors		Chilled Water	Electrical				Installation	
				Type	Qty	Flow Passes	Input Power	FLA	Curr. Draw	MCA MOCp	Dimensions L x W x H	Weight (Lbs)
ACA070AT304F	70	4		TT300	1	4	67.1	136	92.0	196/250	151x88x112	7250
ACA080AT306F	80	6		TT300	1	4	74.5	159	101.9	226/300	195x88x112	8250
ACA110AT356F	100	6		TT350	1	4	91.2	204	129.9	294/400	195x88x112	8375
ACA110BT306F	120	6		TT300	2	2, 3	95.3	274	133.5	336/400	195x88x112	10850
ACA150BT308F	150	8		TT300	2	2, 3	149.7	282	204.5	344/400	239x88x112	11600
ACA165BT3010F	170	10		TT300	2	2, 3	170.6	310	231.9	377/450	284x88x112	12850
ACA180BT3510F	180	10		TT350	2	2, 3	165.3	360	236.8	440/500	284x88x112	13500
ACA200BT3510F	200	10		TT350	2	2, 3	191.2	360	271.7	440/500	284x88x112	13500
ACA220BT3512F	220	12		TT350	2	2, 3	226.0	408	318.7	498/600	310x88x112	17300
ACA240CT3012F	240	12		TT300	3	2	251.3	453	331.5	520/600	348x88x112	14860
ACA280DT3016F	280	16		TT300	4	2, 3	260.3	604	358.5	671/700	436x88x112	22600
ACA300CT3518F	300	18		TT350	3	2, 3	274.6	552	390.9	632/700	436x88x112	22500
ACA330CT3518F	330	18		TT350	3	2, 3	321.1	612	453.6	702/800	485x88x112	23000
ACA400DT3520F	400	20		TT350	4	2, 3	297.5	720	429.3	801/900	529x88x112	29500

AIR COOLED - VS - WATER COOLED CHILLER PERFORMANCE



Superior Refrigerant Management By Design.

All Arctic Cool air cooled chillers are AHRI Certified for performance and include compressor dedicated refrigerant circuits with receivers and plate sub-coolers to enhance reliability, available capacity and energy efficiency. *A simple and low cost measure with great customer advantages.*

Evaporative Condensing.

The Turbocor compressor and Arctic Cool Danfoss DMX Controller can take advantage of evaporative condensing and deliver performance as good or better than water cooled designs. Arctic Cool evap-assist adiabatic pads are also available to reduce air temperature and performance.



Note: All dimensions are in inches and approximate. All weights are in Lbs. Input Power is in kW. Current Draw is in Amps. Minimum and maximum flow rates are approximations based on fluid velocities required to maintain turbulent flow without excessive pressure drop or erosion. With continuous product improvement, all information is subject to change. Refer to ArcticCool to obtain Certified dimensions and AHRI test reports.



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Water cooled and air cooled chillers and systems featuring

