Phoenix Manufacturing, Inc.

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SPECIFICATION DATA
RESIDENTIAL AEROCOOL®

Side Discharge
(TH, UTH, GH, HH Models)

Down Discharge
(TD, UTD, GD, HD Models)

Up Discharge
(TUP, UTUP, GUP, HUP Models)

UL Classified

TD/TH 3800C	TD/TH/TUP 6801C
TD/TH 4801C	TD/TH/TUP 6812C
TD/TH 4812C	

UL Listed

UTD/UTH 3800	UTH/UTD/UTUP 6801
UTH/UTD 4801	UTH/UTD/UTUP 6812
UTH/UTD 4812	GD/GH/GUP 6801
GD/GH 4801	GD/GH/GUP 6812
GD/GH 4812	

FEATURES:

- High quality architectural grade Peblar XT® finish
- Pro-Armor: The premier single inlet cooler with polymeric inner structure that completely sheilds the wet section from corrosive interaction.
- Galvanized sheet steel is zinc coated at weights rated G40 or G90
- Evaporative media used in the UL Listed models is rated to UL900.
- These units are available with 8", 12" and 4"x4" High Efficiency Rigid Media pads. Evaporative media is corrugated cellulose material, impregnated with insoluble antirot salts and rigidifying saturates.
- Bearings have an L10 bearing life of 39,000 hours
- Electrical service knockouts are 1/2".
- Water supply line is 1/4" O.D. on both sides.
- Bottom pan drain is 3/4" male hose thread.
- UL Classified Evaporative Air Cooler, in accordance with the Uniform Mechanical Code. UL Listed models are also available. To order a UL Listed model, add a "U" prefix to the part number. NOTE: in order to maintain the UL Classified or UL Listed designation, these models must be installed with PMI motor kits and pumps
- All models ship with 120 V. Low Sump Pumps included. 240 V. pumps are available.
- **Optional** Pro-Shield weatherizing panel inhibits heat loss and cold air from entering your home during the off season.

⚠ **WARNING:** This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

PERFORMANCE

AIR DELIVERY - data published derived from tests conducted in accordance with A.M.C.A. (Air Movement and Control Assoc.) standard 210.

BEARING LIFE - L10 bearing life of 39,600 hours is based on ABMA standard 9/ISO standard 281.

BLOWER WHEEL- balanced in accordance with ISO 1940 and A.N.S.I. standard S2.19, quality grade G6.3.

SINGLE PHASE MOTORS - tested under UL standard 507 for locked rotor and heat rise protection.

CONSTRUCTION

EVAPORATIVE MEDIA - specifically corrugated cellulose material, impregnated with insoluble anti-rot salts and rigidifying saturates.

SEALANT - water immersion per ASTM D870.

HOT DIPPED GALVANIZED SHEET STEEL - is ASTM A653, type CS, with zinc coating weights rated G40 or G90.

CORROSION RESISTANCE - per ASTM B117.

PENCIL HARDNESS - per ASTM D3363.

IMPACT RESISTANCE - per D2794.

FLEXIBILITY - per ASTM D522

SURFACE BURNING CHARACTERISTICS - of building materials (best rating) per UL 723 and ASTM E-84.

PEBLAR XT® - is our one coat TGIC Polyester Powder Coating system that is applied over 5 stage zinc phosphate prepared sheet steel surfaces for protection against atmospheric corrosion. This coating system meets the requirements of UL 1332 - organic coatings for steel enclosures of outdoor use electrical equipment.

AEROCOOL® Evaporative Coolers and components are designed and tested in accordance with one or more of the following standards or agencies:
Note:In order to maintain the UL Classified or UL Listed designation, these models must be installed with PMI supplied motor kits and pumps.

CLASSIFIED UL

UL Classified Models
These Aerocool models are Classified by UL as Evaporative Air Coolers inaccordance with the Uniform mechanical Code.

UL LISTED

UL Listed Models
Listed to applicable UL Standards and requirements by UL.

October 2018

PHOENIX MANUFACTURING

SUBMITTAL DATA

Date:

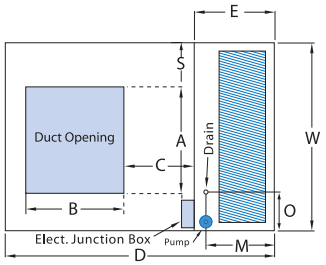
Project: _____ **Location:** _____

Architect: _____ **Engineer:** _____

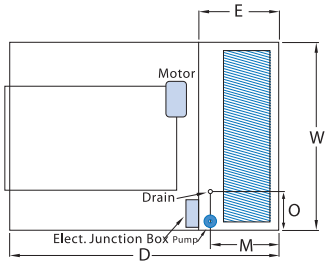
Contractor: _____ **Submitted by:** _____

Notes: _____

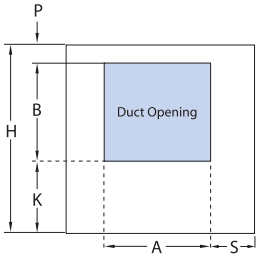
Ref. No.	Cooler Model No.	Quantity	CFM	Static Pressure	HP	Volts	Phase
1							
2							
3							
4							
5							



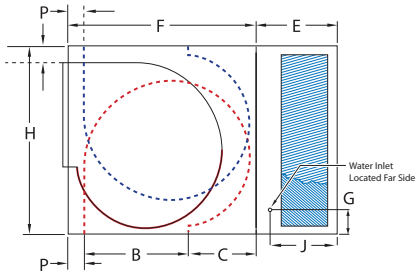
Top View (updraft)



Top View



End View



Side View

Aerocool Series

All Models Include 120 V. Pumps

Media Type	Model Number	Indus. STD Rating	Air Delivery CFM (Cubic Feet Per Minute)						Electrical Specifications			
			0.0"	0.1"	0.2"	0.3"	0.4"	0.5"	HP	Speed	Volts	Amps
8" Media with 80% Saturation Efficiency	TD/TH 3800C	3800	2021	1939	1879	1711	1509	1203	1/3	2	120	7.4
	TD/TH 4801C	4400	3329	3035	2816	2623	2429	2235	1/2	2	120/240	9.0/5.3
	TD/TH 4801C	4800	3875	3619	3440	3286	3132	2978	3/4	2	120/240	11.5/6.0
	TD/TH/TUP 6801C	5800	4250	4125	4000	3850	3650	3425	3/4	2	120/240	11.5/6.0
	TD/TH/TUP 6801C	6800	4750	4600	4475	4375	4250	4050	1	2	120/240	13.3/6.9
12" Media with 89% Saturation Efficiency	TD/TH 4812C	4400	2860	2790	2645	2350	2030	1890	1/2	2	120/240	9.9/5.9
	TD/TH 4812C	4800	3270	3220	3190	2940	2650	2350	3/4	2	120/240	12.4/6.6
	TD/TH/TUP 6812C	5800	4130	4000	3820	3630	3375	2740	3/4	2	120/240	12.4/6.6
	TD/TH/TUP 6812C	6800	4551	4440	4300	4080	3940	3680	1	2	120/240	14.2/7.6

Motors ship seperately

Aerocool Series Engineering Data

Media Type	Model Number	Cabinet			Duct Opening		Down	Side			Water Inlet		Drain				Ship Weight	Oper. Weight
		H	W	D	A	B	C	K	E	F	G	J	M	O	P	S		
8" Media	TD3800C	25 5/8	33 1/8	42 5/8	16	16	7 7/8		17	26	4 3/8	13 1/2	13 1/2	5 1/2	7 7/8	8 1/2	115	130
	TH3800C	25 5/8	33 1/8	42 5/8	16	16		1 7/8	17	26	4 3/8	13 1/2	13 1/2	5 1/2	7 7/8	8 1/2	115	130
	TD4801C	27 5/16	42	43	17 3/4	17 3/4	6 3/4		17	26	5 1/2	13 1/2	13 1/4	13	1 1/2	12 1/8	161	189
	TH4801C	27 5/16	42	43	17 3/4	17 3/4		8	17	26	5 1/2	13 1/2	13 1/4	13	1 1/2	12 1/8	161	189
	TH6801C	34 5/16	42	45	19 3/4	19 3/4	11 5/16		17	28	5 1/2	13 1/2	13 1/4	13	3 1/4	11 1/8	198	220
	TD6801C	34 5/16	42	45	19 3/4	19 3/4	6 3/4		17	28	5 1/2	13 1/2	13 1/4	13	1 1/2	11 1/8	198	220
	TUP6801C	34 5/16	42	45	19 3/4	19 3/4	6 3/4		17	28	5 1/2	13 1/2	13 1/4	13	1 1/2	11 1/8	198	220
12" Media	TD4812C	27 5/16	42	47	17 3/4	17 3/4	6 3/4		21	26	5 1/2	17 1/2	17 1/4	13	1 1/2	12 1/8	177/199	212
	TH4812C	27 5/16	42	47	17 3/4	17 3/4		8	21	26	5 1/2	17 1/2	17 1/4	13	1 1/2	12 1/8	177/199	212
	TH6812C	34 5/16	42	49	19 3/4	19 3/4	11 5/16		21	28	5 1/2	17 1/2	17 1/4	13	3 1/4	11 1/8	214/244	257
	TD6812C	34 5/16	42	49	19 3/4	19 3/4	6 3/4		21	28	5 1/2	17 1/2	17 1/4	13	1 1/2	11 1/8	214/244	257
	TUP6812C	34 5/16	42	49	19 3/4	19 3/4	6 3/4		21	28	5 1/2	17 1/2	17 1/4	13	1 1/2	11 1/8	214	257