

POLARCOOL™
EVAPORATIVE COOLING SYSTEMS

PolarCool Evaporative Cooling Fans

**The Most Rugged, Well Engineered
Portable Evaporative Cooling Fan on the
Market.**



www.polarcool.net

PolarCool Evaporative Cooling Fans

Training Designed for Dealers & Distributors

Mark Lewis

Account Manager
mlewis@hhtech.net
770.337.7625 (Mobile)

Brian Peppers

Vice-President, Product Marketing
bpeppers@hhtech.net
256.338.2077 (Mobile)



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Presentation Outline:

30 Minutes

- **PolarCool Company History**
 - Brief highlights of the history of HH Technologies & PolarCool in the ventilation market
- **Concept of Evaporative Cooling**
 - Overview of Evaporative Cooling concepts & its benefits over conventional cooling methods in certain applications
- **PolarCool Features & Benefits / Specifications**
 - Breakdown of the various models of PolarCool Fans, what sets it apart from other evaporative coolers on the market & the specific features & benefits of each size unit
- **Recommendations / Application Details**
 - Overview of some of the things to consider when recommending a PolarCool Fan
- **PolarCool Crating & Shipping**
 - Brief highlights of the manufacturing & shipping process of PolarCool Fans
- **Additional Resources**
 - Outline of some additional resources that PolarCool offers that can assist you in the process
- **Questions / Answers / Open Discussion**



Throughout the late **1970's** & **1980's**, Hired-Hand developed & released a complete line of products to serve the agricultural market. Substantial growth was seen in the early **1990's**, when Hired-Hand became a recognized leader in the poultry, swine & dairy markets.



1990 – Hired-Hand entered the ventilation market in the agricultural industry, releasing a complete line of high-performance fans & evaporative cooling systems.

1978 – Founding of Company (Hired-Hand Manufacturing, Inc.)





2004 – Establishment of HH Technologies, Inc. to House
(3) Divisions: (Hired-Hand, RollSeal & Hired-Hand Green)

1999 – Hired-Hand uses it's years of experience & expertise in the ventilation market to develop the first line of PolarCool Portable Evaporative Cooling Fans.



ENVIRONMENT

Evaporative Cooling Systems

Komfort Kooler

Komfort Kooler systems utilize the natural cooling effect of evaporation to combat seasonal dips in production caused by heat stress. Cumberland offers two different styles of Komfort Kooler. The Closed Top System is made of ultraviolet stabilized PVC, this system offers great durability and longevity for the poultry environment. In addition, Cumberland's Open Top System offers the grower easy access to manage and maintain their evaporative cooling system.

Water Troughs

Cumberland's pre-formed square trough serves as a 3 gallon per lineal foot (44.8 liters per meter) water reservoir. Constructed of corrosion proof, ultra-violet stabilized PVC components, the trough allows unevaporated water to be recirculated back to the holding tank. A perforated tray snaps to the trough to hold pads firmly in place. Injection molded end caps and couplers speed installation.

Closed Top Design

The Closed Top system is extruded from ultraviolet stabilized PVC for durability and ease of installation. The hinge-open cover and thumbscrews allows accessibility to spray bar and holds pads firmly in place. The spray bar bracket and water deflector insure pads are uniformly wet.

Open Top Design

Made of high quality stainless steel or aluminum, this system will give years of dependable operation under the harshest conditions. The Open Top design allows you to see the water jets and easily check water pressure. It also offers access to the spray bar for cleaning.

Features

- A roto-molded holding tank offers increased water storage capacity.
- Submersible pump keeps water levels consistent for efficient water delivery.
- Automatic float valve for matching water supply with water demand.
- Easy removal of pads for cleaning.
- Wide selection of cooling pads to choose from.
- Trough support brackets for suspending the system on the sidewall.
- Center Feed and Drain Kits for longer cooling systems.

Jet Pump Features

- The Jet Pump System provides an external self priming pump.
- Trough mounted float valve eliminates the need for an external tank.
- Our Jet Pump System is field proven, reliable and a cost effective way to deliver water to Evaporative Cooling Systems.

HH Technologies has more than 25 years experience in the evaporative cooling industry.





HH TECHNOLOGIES

HH Technologies is widely recognized as a leading supplier of high-performance, automated roll-up door systems, portable evaporative cooling systems & contract manufacturing services to other OEM companies. Since 1978, our on-site engineering & manufacturing operations in Bremen, Alabama has produced the most respected brands within the markets that we serve.

Our promise to provide the most innovative & dependable solution to our customers extends into our three primary business divisions:

RollSeal, PolarCool & OEM Services.



RollSeal™ Door Systems provide simple, functional and efficient environmental control. The heart of the RollSeal™ door is a unique, patented curtain sealing system which provides excellent environmental and thermal separation.



PolarCool™ is a portable evaporative cooling system that provides cooling relief on the spot to an array of industries such as production and warehouse facilities, sporting events, automotive and manufacturing plants, outdoor/exterior cooling, and many others.



OEM SERVICES

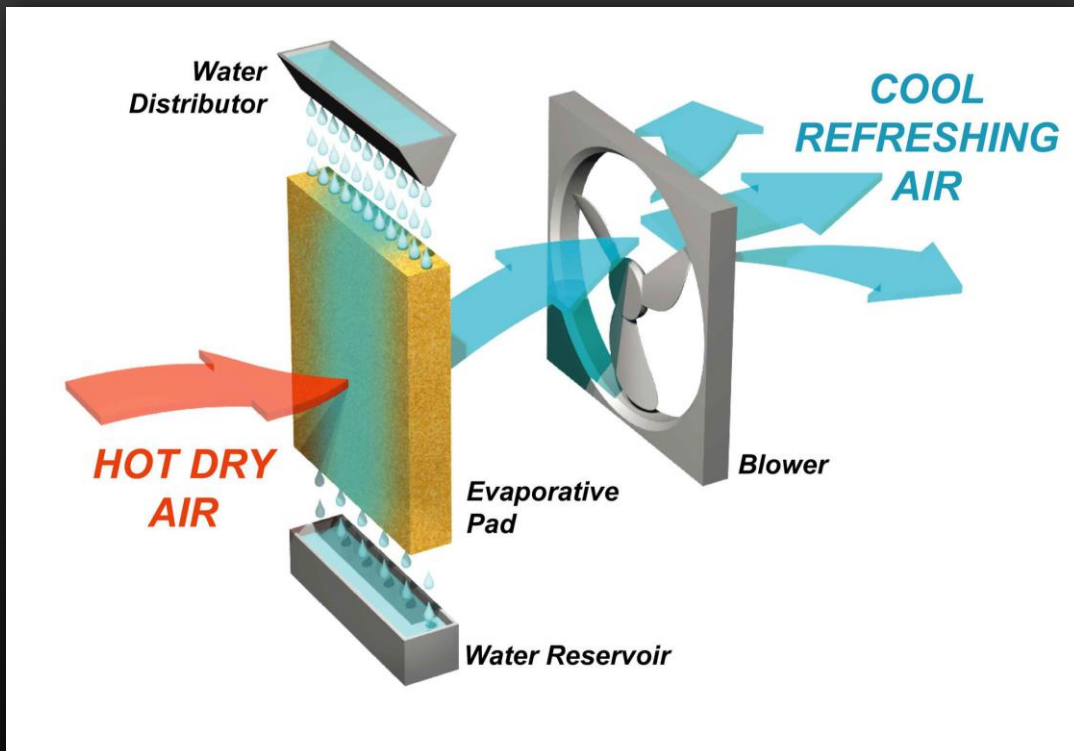
Our customers appreciate the careful, diligent attention we give every project. We go beyond conventional assembly—to creating a client-oriented support team that is dedicated to helping you achieve your goals. We accomplish this through on-time, efficient delivery, flexibility, and cutting-edge manufacturing capabilities.

So ... Who is PolarCool?

PolarCool is a division of HH Technologies, a family owned company with decades of experience in designing & manufacturing high-performance fans & evaporative cooling systems for a multitude of markets.

The PolarCool division is focused on marketing the PolarCool Portable Evaporative Cooling Fan (the most ruggedly built & best engineered portable cooler in the industry) to the industrial market.

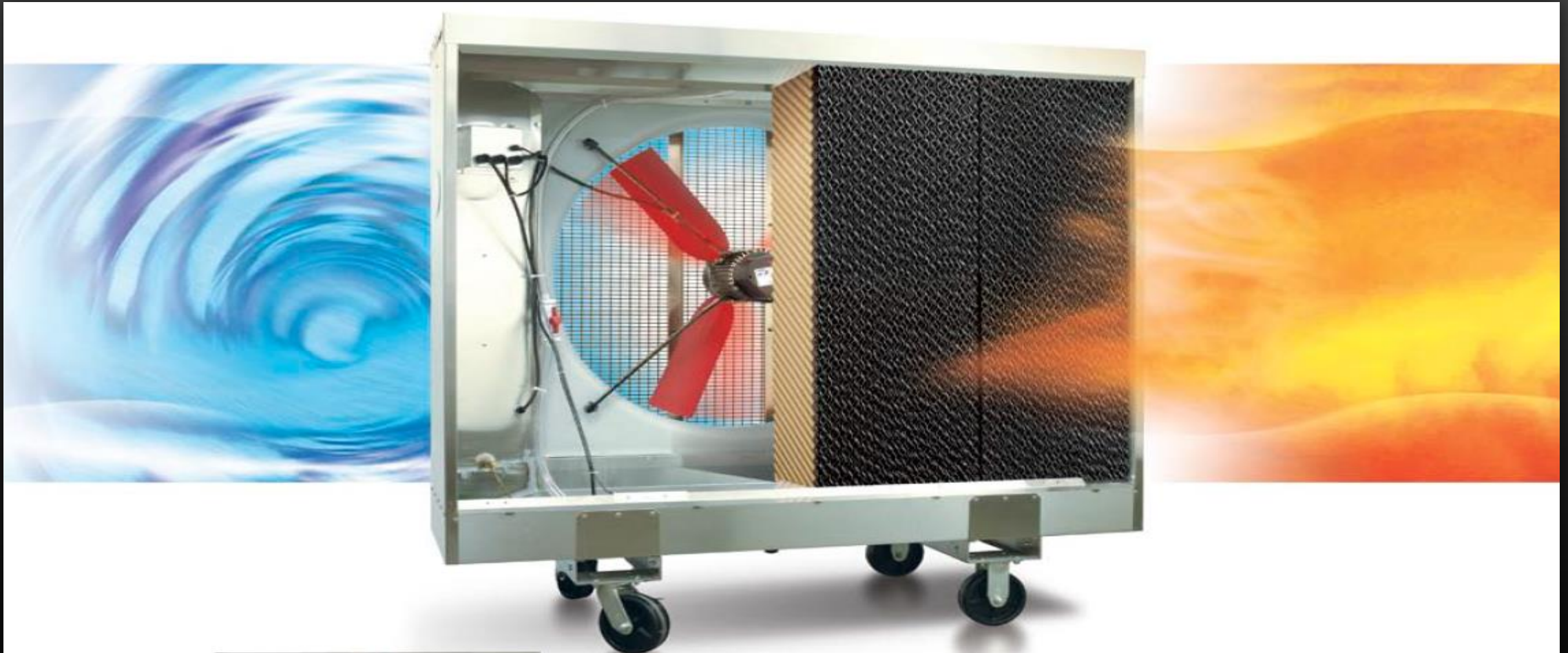
How Evaporative Cooling Works:



Evaporative cooling is a form of cooling that cools the air through the evaporation of water. It differs from typical air conditioning, which uses vapor-compression or absorption refrigeration cycles. Evaporative cooling works by employing water's large enthalpy of vaporization. The temperature of dry air can be dropped significantly through the phase transition of liquid water to water vapor (evaporation), which can cool air using much less energy than refrigeration.

Specifically, portable evaporative cooling units provide spot & area cooling where you need it.

Evaporative cooling needs only (2) factors to work: water & moving air. When air is moved across a wet surface, some of the water on the surface evaporates. This action draws heat from the moving air, thereby cooling & dropping the ambient temperature.



Benefits of Evaporative Cooling Over Traditional Cooling:

- Much More Economical To Operate
- Much More Energy Efficient
- Fresh / Clean Air
- Inexpensive Installation
- Minimal Maintenance Required
- Very Low CO² Emissions
- Allows for Open Windows & Doors

Industry Studies Have Shown Evaporative
Cooling to Operate @ **10%** of the Cost of
Conventional Cooling!



Powder Coated Unit Line-Up:

18" - 24" - 36" - 48"



Stainless Steel Unit Line-Up:

18" - 24" - 36" - 48"



PolarCool Evaporative Cooling Fans

PolarCool Features & Benefits

Hinged Top Cover: Ease of Access, Maintenance & Cleaning

Fork Lift Channels Standard: Ease of Maneuverability, Multi-Level Terrain Friendly

Steel Construction: Longevity, Holds Shape Over Plastic Units, UV Protection, Pressure Washable

Variable Speed: Taylor Air Flow to Meet Specific Needs, Easy Push-Button Interface, LED Indicators

Low Water Auto Shut Off: Avoid Burnt Pumps

Edge Coated Pads: Easier to Clean & Longer Lasting Evap Pads

Direct Drive Motor: Quieter Operation

Low Amp Rating: Low Cost of Ownership & Operation



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PolarCool Evaporative Cooling Fans

PolarCool Specifications

	18"	24"	36"	48"
Housing Material	Powder Coated or Stainless Steel	Powder Coated or Stainless Steel	Powder Coated or Stainless Steel	Powder Coated or Stainless Steel
Electrical Voltage	115 VAC	115 VAC	115 VAC	208, 230 VAC
Amps	4.9	6	8.5	9.5
Reservoir	10 Gallon	9 Gallon	12.5 Gallon	13.5 Gallon
LED Indicators	Yes	Yes	Yes	Yes
Water Consumption Rate	6 Gallons/Hour	7 Gallons/Hour	12 Gallons/Hour	17 Gallons/Hour
CFM	3000	4400	10000	17500
Fan Speed	Variable - 10 Speeds	Variable - 10 Speeds	Variable - 10 Speeds	Single Speed
Coated Pad Edges	Yes	Yes	Yes	Yes
Noise Level (DECIBELS)	Low: 19.4 High: 29.1	Low: 18.5 High: 37.0	Low: 22.0 High: 33.5	High: 35.2
Cooling Area (SQ FT)	800	1200	3000	4000
Dimensions (IN)	25w x 50h x 20d	43w x 41h x 36d	56w x 53h x 36d	80w x 65h x 36d



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PolarCool Evaporative Cooling Fans

[Recommendations / Application Details](#)



18" Units Residential Model



24" Units Best Selling Model



36" Units Best Selling Model



48" Units Heavy Industrial Model



48" Unit



36" Unit



18" Unit

PolarCool Evaporative Cooling Fans

Additional Resources

Phone: (888)-765-5732 | Fax: (256) 287-7010 | STOREFRONT | MY ACCOUNT | CHECKOUT



POLARCOOL™
A STAINLESS REPUTATION

ABOUT US | HERE'S WHY... | STOREFRONT | SUPPORT | CONTACT US



Comfort + Convenience + Value = PolarCool™

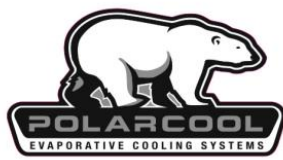
SEARCH POLAR COOL GO

- HOME
- OUR COMPANY
- EVAPORATIVE COOLING
- OUR FANS
- STOREFRONT
- SUPPORT


THE INDUSTRY LEADER IN EVAPORATIVE COOLING!

POLARCOOL™
EVAPORATIVE COOLING SYSTEMS

Polarcool.net is the official manufacturer website for PolarCool™ fans. PolarCool™ is a portable evaporative cooling system that is effective in providing spot and area cooling for a multitude of applications that normally would prove to be costly or inefficient to cool with refrigerator air. All units feature high quality steel cabinets, heavy duty pumps and long



Portable Evaporative Cooling System
User's Manual



Manufactured by
RollSeal


Part No 4801-5035 Rev 05-2015

SEARCH POLAR COOL GO

- HOME
- OUR COMPANY
- EVAPORATIVE COOLING
- OUR FANS
- STOREFRONT
- SUPPORT
 - WHICH FAN DO I HAVE?
 - CUSTOMER SERVICE / SUPPORT
 - FAQ & ANSWERS
 - WARRANTY INFO
 - PRODUCT REGISTRATION
 - SUPPORT / MANUALS
 - DEALER NETWORK
 - FREE NEWSLETTER SIGN-UP

RollSeal®

PUMP REPLACEMENT



WARNING!
Before Installing Pump, Disconnect All Electrical Power To PolarCool!

INSTRUCTIONS
Disconnect all electrical power to PolarCool. (Unplug power cord). Remove cooling pads. Refer to Figure 3 at lower right. Open electrical wiring box. For Single speed pump, refer to Figure 1 below. For variable speed pump, refer to Figure 2 below. Carefully disconnect pump wires only from terminals. Pull wires through inlet and out of electrical box. Unbundle pump power cord from other cords so that pump can be removed. Disconnect water hose from pump. Keep pump for later use in Step 11.

KITS

Part No	Description
6422-0610	1/8" PC 18" Pump Replace 120V
6422-0611	1/8" PC 18" Pump Replace 230V
6422-0615	3/8" PC 36" Pump Replace 120V
6422-0617	1/2" PC 48" Pump Replace 230V

Kits include pump, mounting bracket and hardware

FREQUENTLY ASKED QUESTIONS

The following frequently asked questions (FAQs) provide a general background on a variety of issues. For further information, please feel free to contact PolarCool™ Customer Service at (888)765-5732.

Can I buy parts from you directly?
Where do I find the part number to my PolarCool?
Why doesn't my pump work?
What does that sequence of blinking lights tell me?
How do I replace my pump?
How do I replace my control panel?
How and what can I clean my unit/pads with?
What are actual weights and dimensions of the units?
Where is a dealer near me?
What size do I need for my building?



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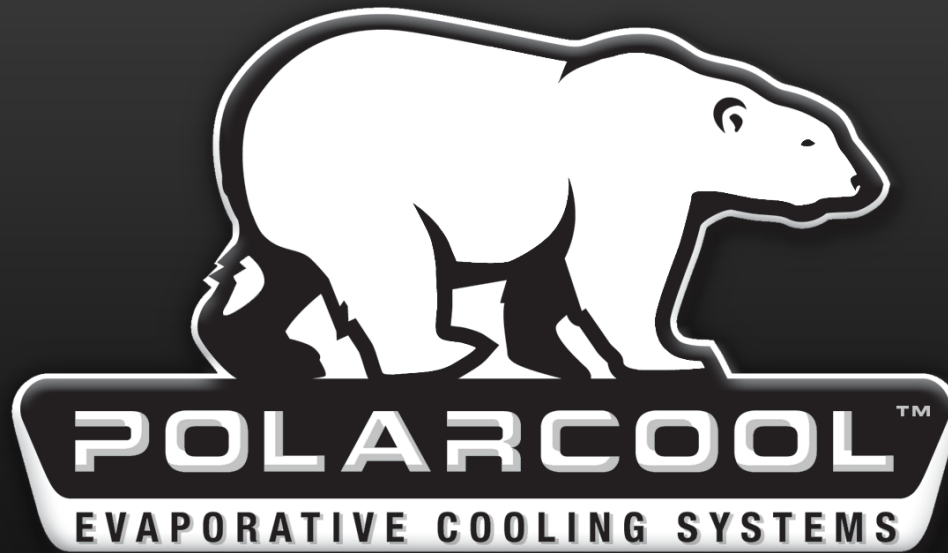
“I can’t believe how well this PolarCool cools down my shop!”

R. Matthews - El Paso, Texas



“So impressed with how well our PolarCool cools down my garage!”

J.G. Parrish - Memphis, Tennessee



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