

2022

WATER-COOLED HVAC/R EFFICIENCY FOR HOME AND OFFICE



The
Mizzler

ALL THE BENEFITS
WITHOUT THE SWAMPY MESS

INTRODUCTION

In the vast world of space cooling, technicians and design engineers have strived to deliver optimal efficiency in the refrigerant cycle. In more recent years, that has improved substantially with the introduction of variable refrigerant flow systems. However, spend any amount of time researching HVAC-R and it quickly becomes apparent that no matter how complex a system design is, it essentially comes down to the regulation of subcooling and superheat. The production of liquid refrigerant, moreover the quality and temperature of such, directly and critically impacts the efficiency and capability of any system.

The Mizzler® finally delivers a commercially recognized and well-established subcooling method, without the traditional water management and complications associated with traditional water-cooled systems.

ROI

To the end user, the average calculated return of investment is c.18-36 months. However, in areas with high electricity costs, or longer cooling seasons, that number can come down to **well under 18 months.**



WILL IT WORK ON YOUR SYSTEM?

The Mizzler® is suitable to be installed on standard, split-type residential and light commercial systems with either a single, or with multi evaporators, and an individual refrigerant circuit of 6 tons or less*.

Whether straight cool or heat pump, The Mizzler® knows how and when to best serve your HVAC system. Ribbiting, isn't it?

Designed to work with all common HFC, HCFC and HFO refrigerants.



The Mizzler is supplied with a full, five-year parts or replacement warranty.**

*Not for package systems. Be sure to specify traditional split, vs. mini/multi-split when ordering. See website.

**The system partnered with The Mizzler must be registered online within 60 days of installation.

WHO CAN INSTALL?

The installation of The Mizzler® is a relatively straight forward process. It is supplied with easy-to-follow installation instructions and guidelines and requires no proprietary training or factory commissioning. The Mizzler® can be installed by the owner; or if desired for a nominal cost, by your preferred HVAC-R technician.



GREEN POWERED-BLUE CONSCIOUS

The Mizzler® consumes very little and costs nothing to operate. Previously thought impractical, the efficiency improving benefits of water-cooled HVAC systems have largely been unavailable for residential and small businesses, until now.

Water is precious. The Mizzler® does not require a garden hose, or other source of public/utility water. No increased water bill, offsetting a lowered power bill.

Best of all, the whole system is 100% energized by low voltage power - provided freely by the sun.



OTHER BENEFITS

-  Can reduce kWh consumption by in-excess of 35%.
-  Escalates efficiency, increasing component lifespan.
-  Chemical free, with very little maintenance.
-  No ponding water. Our apologies to other frogs.

THE MIZZLER PROCESS



Phase 1

The provided 12V solar panel converts sunlight to electricity, which then enters into a charge controller within the Mizzler's Control Center. The controller then charges and maintains an internally housed, lithium-ion battery. This then becomes the power source for The Mizzler.

Phase 4

With parameters met, the stored water within The Mizzler is delivered through a series of mizzling heads onto the condenser coils. The water, along with the condensing fan, enables the condenser to convert the hot gas back to liquid, much more effectively. This reduces the compressor's load*.

Phase 2

The Mizzler's Control Center, located above the tank, has many functions. It meters the ambient temperature, the activity of the HVAC system, as well as the water levels within the storage tank and recovery pan. It likewise controls the mizzling and recovery process.

Phase 5

The mizzled water now runs down the coils and into the recycling pan. The pan also acts to collect rainwater, as well as redirected water that condensed at the evaporator. All this water is strained and filtered before being returned to the storage tank, where it is also exposed to UVC light.

Phase 3

The Mizzler knows when to do its thing. A specially designed Air Float Switch is mounted on top of the condenser. The switch is activated when the condenser fan is powered, the control system takes some measurements and determines if it's time to go to work.

Phase 6

The Control Center continues year-round to monitor the ongoing process, collecting free solar energy and water, and charging its battery— waiting for just the right time to get back to saving you money.

2022

Mizzle – [miz'el], v., -zled. -zling, –v1.
to rain in fine drops; drizzle; mist. –n2.
a misty drizzle –miz'zly, adj.



 info@themizzler.com

 USA +1 239 308 6480
UK +44 7485 220584

 www.themizzler.com

