

# Munters EC Cool

## Evaporative Condenser Cooling

For over half a century, Munters has been the leading pioneer in humidity control, and we're just getting started.

### Benefits:

- More reliable cooling in summertime.
- Remove High Pressure alarms due to outside conditions.
- No corrosion or mineral deposits on condenser.
- More energy efficient cooling installation (COP).
- Higher cooling capacity.
- Easy cleaning and pad replacement.
- Easy and quick installation.
- Stock standard product, therefore short delivery times.

### Say Goodbye to high pressure alarms during summertime

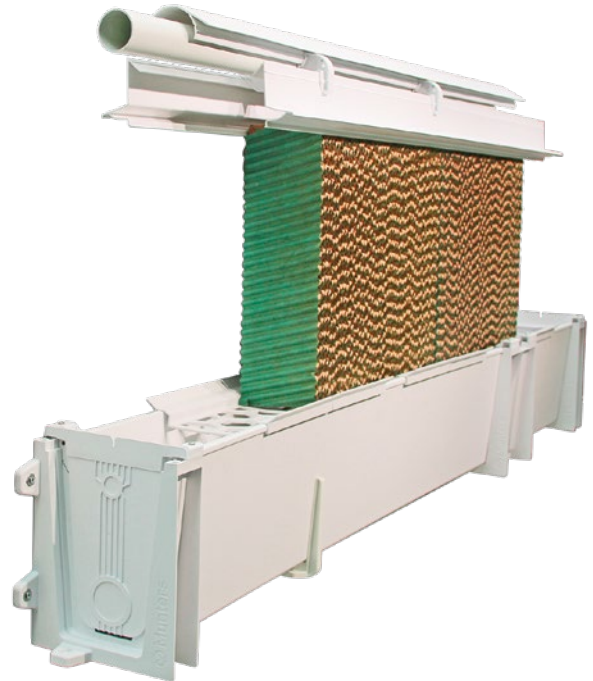
Does your cooling equipment suffer from the increasingly more demanding summer conditions? Would you like to prevent high pressure alarms in summertime? Would you like to save energy?

Then the Munters EC Cool is a product for you.

EC Cool is an evaporative cooling pad system that decreases the inlet temperature for your rooftop condenser. By decreasing the inlet conditions, you decrease the risk of high pressure alarms and increase the efficiency of your cooling system as a bonus.

### Innovative engineering

Munters takes a step ahead on delivering a trouble-free and easy to install condenser pre-cooling system, introducing a glue & adhesive free solution, simplifying the installation process. This new revolutionary system guarantees long service life, as it does not suffer from cracks or water leakage due to thermal expansion or contraction. Inspection and cleaning procedures are easy. A smart clip function allows for easy access to the water pipe and for replacement of pads.



For every 1 °C reduction in temperature on the inlet of your condenser, it increases the efficiency of the condenser by a minimum of 2%.

# Munters EC Cool - when less is more

**Less is more** summarizes the advantages offered by the new EC Cool glue-free system.

“Less” refers to less breakdowns in summer time due to high pressure alarms and money spent on rectifying the problem. “More” stands for the peace-of-mind and overall efficiency of the cooling installation.

The EC Cool system avoids the water spraying in summer time and therefore leads to a higher reliability as it does not leave mineral deposits and corrosion on the condensers. A well known and significant risk factor.

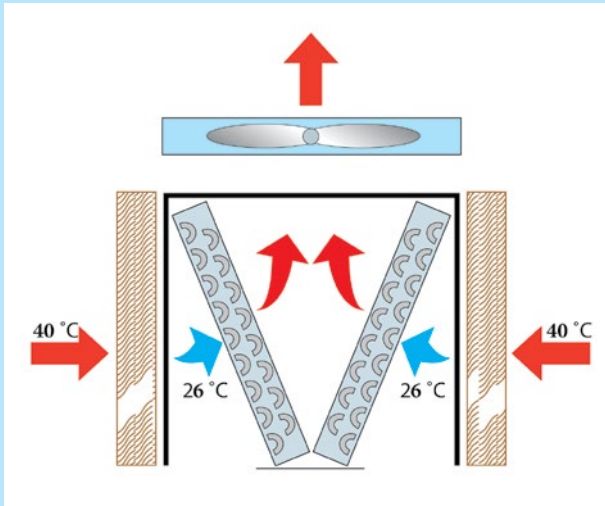
The EC Cool system is easy to install and thanks to the glue free design it will compensate for the thermal expansion and contractions of materials. It allows the water tank to expand freely inside the joints, without risk of leaking water.

The EC Cool system is saving money, time and materials, because of the innovative design what results into a reduction of time for installation and commissioning.

## Retrofit, flexible & modular system

Because of the modular system we can retrofit every size of condenser even up to 2 meter high.

- Incorporated water gutter with high capacity to guarantee no dry operation for recirculating water systems.
- Reinforced water tank with double wall, for very high robustness and rigidity.
- Pad guides and deflector featuring clip-function.
- Frontal opening for flushing the entire system.
- Pad supports with large honeycomb orifices, to avoid clogging or pad sitting in water.
- Made in high quality PVC and PP materials, UV stabilized.
- Anti-corrosion, resistant to detergents and disinfectants.




The diagram illustrates the EC Cool system's operation. At the top, a red arrow points upwards from a horizontal duct. Below this, a V-shaped matrix of cooling pads is shown. Red arrows indicate warm ambient air entering from the sides at 40 °C and being cooled as it passes through the pads. Blue arrows show the cooled air exiting from the bottom at 26 °C. A water tank is positioned above the pads, with a red arrow indicating water flow across the matrix.

Warm ambient air passing through the EC Cool matrix comes into contact with water that flows freely across the matrix. Heat energy is absorbed by the water causing evaporation of the water and cooling of the air.

The pre-cooled air entering the condenser system allows heat energy from the condenser coil to dissipate more easily thereby increasing the cooling capacity for the same or in most cases less energy consumption.

\* Ambient outside temperature db 40 °C, wb 23 °C



**GreenGuard Gold**  
Munters high performance EC Cool media is GreenGuard Gold certified and has been tested for emissions of more than 360 related chemicals to ensure they are non-hazardous.



Find your nearest Munters office at [www.munters.com](http://www.munters.com)

Munters reserves the right to make alterations to specifications, quantities, etc., for production or other reasons, subsequent to publication. © Munters AB, 2022