



HEAT RELIEF PRODUCTS | CIRCULATORS
VENTILATORS | SPECIALTY PRODUCTS
ENVIRONMENTAL CONTROLS

R30-K

Low-pressure rotary atomizer



Water misting as an effective cooling medium has been used for many years and with very few changes the technology and equipment has remained the same – filtered water is pumped at high pressure along lines to nozzles where the water is atomized and flash evaporation occurs. These systems, while effective, have their drawbacks - water quality, nozzles blocking and maintenance.

This is now obsolete.

After 10 years of research and development RedcoUSA introduce the R30, the first in a new generation of Rotary Atomizers.

Ordinary unfiltered drinking water is introduced at low pressure into the spinning head of the R30 where it is forced by centrifugal pressure through the metal foam core of the head.

As the water droplets pass through the core they are cut and cut again until they form a mist of 12-14micron droplets which flash evaporates in the same way as a conventional system - **but at low pressure.**

No filters, no nozzles, no expensive high pressure lines.

The following information shows the results from a recent test:

- Relative Humidity 62%
- Ambient Temperature 31c (87f)
- Water flow .2 liters per minute -- recorded temp 26c/41f 17% drop
- 0.3 liters per minute -- recorded temp 25c/43f 20% drop
- 5 liters per minute -- recorded temp 24c/45f 22.5% drop

A standard cage type fan was used and the measurements were taken at a distance of 3 meters (10ft) from the unit.

Standard specifications:

Motor: 25volt DC, brushless
rpm: 15000rpm
amps: 4 amps max

Size excluding fitting bracket: 100mm (4in) dia x 97mm (3.75in) length

All water connections are standard US push-to-connect which can be obtained from either RedcoUSA or your local supply house.

Power supply Transformers can be obtained from RedcoUSA.

NEW



Applications include:

- Supply Chain Distribution
- Industrial
- Commercial
- Manufacturing
- Agricultural
- Loading docks
- MTA (material transfer area)
- Palletways
- Pick modules
- ...anywhere you can use cooling for less



Approved

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