

# Bi-Polar Ionization



*Bi-Polar Ionization technology can reduce fresh air requirements while maintaining ASHRAE 62.1 required levels of air purification.*

*Bi-Polar ions seek out and neutralize contaminants.*

*Energy savings can be realized due to reduced outdoor air intake. Bi-Polar Ionization reduces contaminants that traditionally were diluted by bringing in fresh outdoor air.*

*There is a reduction in maintenance compared to other methods in use –such as UV lights that need to be replaced periodically.*

## Bi-Polar Ionization

---

A Third Party Bi-Polar Ionization solution that is integrated into ClimateMaster Tranquility® products can reduce operating expenses for educational facilities, offices, restaurants, and conference centers. Bi-Polar Ionization cleans the air, whereas traditional DOAS systems dilute the air with outside air resulting in additional energy usage.

## Product Benefits

---

- The Bi-Polar Ionization solution, integrated into ClimateMaster Tranquility® products\*, neutralizes odors; kills mold spores, bacteria, VOC and particulates; as well as controls allergens and static.
- Reduces fan power consumption, in comparison to the DOAS unit, leading to lower overall energy cost.
- Allows for additional upfront cost savings due to possible downsizing of the make-up air system, as Bi-Polar Ionization cleanses the air.
- Lower HVAC installation system costs are possible due to usage of smaller ducts.
- This technology treats the contamination in the air stream where it occurs.
- Does not reduce the air flow when it is installed/ integrated in the WSHP system.

\* This is a special at this time and will need to be quoted.

# Bi-Polar Ionization

## TRANQUILITY® PACKAGED UNITS



### TRANQUILITY® 30 TWO-STAGE DIGITAL (TE) SERIES

- Two to six ton units
- 30 EER
- Two-stage compressor
- Exceeds ASHRAE 90.1
- Variable speed ECM fan motor
- Horizontal, vertical upflow and downflow units



### TRANQUILITY® 22 HIGH EFFICIENCY TWO-STAGE (TY) SERIES

- Two to five ton units
- 22 EER
- Two-stage compressor
- Exceeds ASHRAE 90.1 efficiencies
- Variable speed ECM fan motor
- Horizontal and vertical upflow units



### TRANQUILITY® HIGH EFFICIENCY (TZ) SERIES

- Two to five ton units
- 22 EER
- Two-stage compressor
- Exceeds ASHRAE 90.1 efficiencies
- Variable speed ECM fan motor
- Horizontal and vertical upflow units



### TRANQUILITY® HIGH EFFICIENCY (TR) SERIES

- One-half to five ton units
- 16 EER
- Exceeds ASHRAE 90.1 efficiencies
- Copeland scroll compressors (size 024 and above)
- PSC three-speed fan motor
- Horizontal and vertical upflow units



### TRANQUILITY® 20 SINGLE-STAGE (TS) SERIES

- One half to six ton units
- 20 EER
- Single-stage compressor
- Efficiencies exceed ASHRAE 90.1
- PSC or variable speed ECM fan motor
- Horizontal, vertical upflow and downflow units



### TRANQUILITY® 16 COMPACT (TC) SERIES

- One-half to five ton units
- 16 EER
- Copeland scroll compressors (size 024 and above)
- PSC three-speed fan motor
- Exceeds ASHRAE 90.1 efficiencies
- Horizontal and vertical upflow units
- Optional Waterside Economizer



### TRANQUILITY® COMPACT BELT DRIVE (TC) SERIES

- Six to twenty five ton units
- Dual refrigeration circuits
- Exceeds ASHRAE 90.1 efficiencies
- TXV metering device
- Extended range operation
- Optional Water Side Economizer



7300 S.W 44th Street,  
Oklahoma City, OK 73179  
Phone: 405-745-6000  
Fax: 405-745-6058  
climatemaster.com

LC1042  
Rev. : 4-10-18

ClimateMaster works continually to improve its products. As a result, the design and specifications of each product at the time of order may be changed without notice and may not be as described herein. Please contact ClimateMaster's Customer Service Department at 1-405-745-6000 for specific information on the current design and specifications. Statements and other information contained herein are not express warranties and do not form the basis of any bargain between the parties, but are merely ClimateMaster's opinion or commendation of its products. The latest version of this document is available at [climatemaster.com](http://climatemaster.com).