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 lonization 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.

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.

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® 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® 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® COMPACT BELT DRIVE (TC) SERIES

- · Six to twenty five ton units
- · Dual refrigeration circuits
- Exceeds ASHRAE 90.1 efficiencies
- · TXV metering device



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



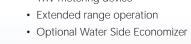
TRANQUILITY® HIGH EFFICIENCY (TR) SERIES

- · 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® 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







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