



THE SMART SOLUTION FOR ENERGY EFFICIENCY

ASSISTED LIVING COMMUNITIES


CLIMATEMASTER®
Water-Source Heat Pump Systems

THE WATER SOURCE HEAT PUMP ADVANTAGE - FOR ASSISTED LIVING COMMUNITIES

THE IDEAL SOLUTION FOR RESIDENTIAL FACILITIES

Water source heat pump systems by ClimateMaster® are the intelligent choice for assisted living and continuing care communities seeking to give residents more of the comforts of home. The result of decades of research and proven performance, they provide reliable operation with individual zone control. The systems utilize quiet, attractive units that are interconnected by way of an efficient water loop – rather than extensive and costly ductwork. No chiller – or operating engineer – is required. And unlike most other systems, ClimateMaster® water source heat pump systems actually recover energy that would otherwise be wasted – and put it to work in other areas throughout the facility.

The result of this intelligent design is more than just quiet, comfortable performance for residents. It translates into greater cost efficiencies for property owners and managers on four vital levels:

- Lower initial installation and expansion costs.
- Superior energy efficiency for lower operating costs.
- Lower maintenance costs. Longest system and component life of any compatibly zoned system.

THE KEY TO LOWERING MAINTENANCE COSTS

ClimateMaster® pioneered the water loop heat pump system – and designed it to be easy and affordable to maintain.

- No single point of failure for the entire system.
- Convenient standard parts availability.
- Easy accessibility to individual units.
- Units located above ceilings and in closets can be changed out by on-site maintenance personnel.
- Special self-contained chassis units can be easily removed for off-site repair.
- Units can be installed above ceilings or in closets where they won't disturb residents or tenants.

EASY AND AFFORDABLE, RIGHT FROM THE START

The expensive initial requirements of alternative systems simply cannot compare to affordable ClimateMaster® water source heat pump installations. ClimateMaster® systems eliminate these costly needs:

- Complex duct work.
- Large chillers. Operating engineers.
- Extensive insulated piping requirements.
- Holes in outside walls.

ClimateMaster® has numerous products that can be combined to handle all space-conditioning needs. Systems often include horizontal and vertical cabinet products, small console units with no wall penetration needed – even large units designed for rooftop applications. Additions to the system for future loads are easy and economical.

INTELLIGENT EFFICIENCY FOR GREATER SAVINGS

Season after season, year after year, ClimateMaster® water source heat pump systems offer the high efficiency necessary to keep operating costs down. In fact, they offer a lower operating cost than most compatibly zoned systems. The difference lies in the system's ability to recover otherwise wasted energy and use it elsewhere in the facility. This dynamic, intelligent use of energy balances the needs of the entire building while reducing operating costs.



TRADITIONAL SYSTEM COMPARISONS	ANNUAL MAINTENANCE EXPENSE	ANNUAL OPERATING EXPENSE	TOTAL ANNUAL COST	INSTALLATION COST
FAN COIL, CHILLER/BOILER 4-PIPE	.14	1.40	1.54	\$12.00
VARIABLE AIR VOLUME	.14	.94	1.08	\$9.00
GEOHERMAL HEAT PUMP	.07	.62	.69	\$10.00
WATER LOOP HEAT PUMP	.10	.94	1.04	\$8.00

PER SQUARE FOOT OF BUILDING SPACE

The layout flexibility of ClimateMaster®'s product lines allows one unit to serve two spaces. Perfect for multi - and single story communities, facilities with large recreational, living and wellness areas, and buildings with repeating floor plans. Units can also be ducted to serve remote spaces.

INDIVIDUALIZED CONTROL, ROOM BY ROOM

ClimateMaster® water source heat pump systems deliver the ultimate in individual comfort control. Unlike other systems, they can heat and cool separate zones simultaneously upon demand. As a result, assisted living residents get the convenience of meeting their own heating and cooling needs - just as they did at home.

Should there be a need to meter usage or control temperature levels in selected areas, connectivity is easily accomplished.

THE LONGEST LIFE ON THE MARKET

Because ClimateMaster® water source heat pump systems are easy to maintain and operate with very little stress on the system, they offer a longer system and component life.

No other heating and cooling system provides a more attractive life cycle cost.

QUIET COMFORT

The added comfort of ClimateMaster® water source heat pump systems doesn't stop with greater individual control. Sound attenuation features such as dual-spring compressor isolation, fully insulated cabinets, and water connections with flexible stainless steel kits reduce potential noise.

There is no excessive air flow to discomfort those near the unit. And the systems dehumidify as they cool for added comfort, especially in southern states. As a result, residents enjoy a peaceful, comfortable room environment year-round.

TRUST THE EXPERTS AT CLIMATEMASTER

Individualized comfort. System-wide savings. One smart system does it all. ClimateMaster®. The intelligent choice for energy efficiency in assisted living communities.





UNIT FEATURES

Product Series	Standard Features											Factory Installed Options																				
	EarthPure® (HFC-410A) Refrigerant	Microprocessor CMM Controls *	iGate™ Advanced Control	ECM Fan Motor	Extended Range Capable Refrigerant Circuit (20°F to 120°F)	Copper Water Coil **	Modulating Water Valve †	TXV	Dual Level Compressor Vibration Isolation	Field Convertible Discharge (Horizontal Units)	Multiple Access Panels for Installation and Service Ease	Scroll Compressors	Factory Installed Hanger Brackets (Horizontal Units)	Condensate Overflow Protection	Remote Reset at Thermostat	High Static Blower	Cupro-Nickel Coil **	UltraQuiet (Multi) Package	Extended Entering Water Temperature Insulation ***	Auto-Flow Water Regulation	Downflow Configuration	Desuperheater Coil	DDC Controller	DXM Controller *	Coated Air Coil	Internal Secondary Pump	ECM Fan Motor	ClimaDry® Reheat	Internal Service Disconnect	vFlow™ Internal Variable Water Flow		
Tranquility® 30 Two-Stage Digital (TE)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Tranquility® 30 Two-Stage (TT)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Tranquility® 20 Single-Stage (TS)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Tranquility® High Efficiency Two-Stage (TZ)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Tranquility® 22 High Efficiency Two-Stage (TY)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Tranquility® High Efficiency (TR)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Tranquility® 16 Compact (TC)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Tranquility® Vertical Stack (TSM)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Tranquility® Console (TRC)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Tranquility® Compact Belt Drive (TC)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Tranquility® Large (TL)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Tranquility® Modular Water-to-Water (TMW)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Rooftop (TRE)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Rx Energy Recovery Ventilator (ERV)					•																											
Vertical Dedicated Outdoor Air (TOV)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Horizontal Dedicated Outdoor Air (TOH)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Some exceptions may apply to standard features and options, consult product submittal materials to determine availability.

* Control for TO Series is DDC with modulating HGR. Control for TMW 360-600 is DDC.

** Water coil construction for TO Series and TMW 360-600 is stainless steel.

*** Standard on TMW Series.

† Extended Range = 35°F–95°F EWT.

‡ Low system pressure drop valve is a standard feature, high system pressure drop valve is optional.



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ClimateMaster works continually to improve its products. As a result, the design and specifications of each product at the time for 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 management system governing the manufacture of ClimateMaster's products is ISO 9001:2008 certified.

We are a proud supporter of the Geothermal Exchange Organization - GEO. For more information visit geoexchange.org

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