

A photograph of a modern office building with a curved glass facade. The glass reflects the sky and surrounding greenery. The building has a cylindrical section in the background and a more rectangular section in the foreground.

# Office Buildings

The Smart Solution For Energy Efficiency



# THE WATER SOURCE HEAT PUMP ADVANTAGE -

## FOR OFFICE BUILDINGS

### THE IDEAL SOLUTION FOR MULTISTORY FACILITIES

Water source heat pump systems by ClimateMaster® are the intelligent choice for lowering costs while creating a comfortable work environment in today's office buildings. The result of decades of research and proven performance, they provide reliable, low-maintenance operation with individual zone control. The systems utilize space-saving units that are interconnected by way of an efficient water loop – rather than extensive and costly ductwork. No chiller, operating engineer or air handler room 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 building.

The result of this intelligent design is more than just quiet, comfortable performance for tenants. It translates into greater cost efficiencies for building owners and property 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, regardless of the system's size.

- 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.
- Units can be installed above ceilings or in closets where they won't disturb residents or tenants.

### LOWER COSTS – TODAY AND TOMORROW

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

- Large-scale 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

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 facility while reducing operating costs.



TRADITIONAL SYSTEM COMPARISONS	ANNUAL MAINTENANCE EXPENSE	ANNUAL OPERATING EXPENSE	TOTAL ANNUAL COST	INSTALLATION COST
FAN COIL, CHILLER/BOILER 4-PIPE	\$0.14	\$1.40	\$1.54	\$12.00
VARIABLE AIR VOLUME	\$0.14	\$0.94	\$1.08	\$9.00
GEOTHERMAL HEAT PUMP	\$0.07	\$0.62	\$0.69	\$10.00
WATER LOOP HEAT PUMP	\$0.10	\$0.94	\$1.04	\$8.00

PER SQUARE FOOT OF BUILDING SPACE



ClimateMaster® meets the unique needs of building owners and their tenants. Perfect for multi- or single story office buildings, properties with private offices, meeting rooms and large or small open office areas, and buildings with repeating floor plans.

#### ZONED FOR COMFORT AND CONTROL

ClimateMaster® water source heat pump systems deliver the ultimate in zoned comfort control. Tenants can easily control private offices, meeting rooms, open office areas and more with thermostats on each unit or one "intelligent" control system. During or after hours, the systems can heat and cool separate zones simultaneously on demand. And unlike chilled water systems that cannot fairly pro-rate usage, ClimateMaster® water source heat pump systems enable accurate metering for direct tenant billing. Should there be a need to meter usage or control temperatures levels in selected areas, connectivity is easily accomplished.

#### QUIET COMFORT

The added comfort of ClimateMaster® water source heat pump systems doesn't stop with greater tenant 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 beneficial in southern states. As a result, tenants enjoy a peaceful, comfortable room environment year-round.

#### ATTRACTIVE BUILDING FROM EVERY VIEWPOINT

Whether you are a building owner, property manager or a tenant, ClimateMaster® water source heat pump systems are good for business. The sleek, space-saving units maximize rentable space. The inherent simplicity of the system also eliminates the large mechanical room requirements of more cumbersome systems. Inside the building, tenants enjoy quiet comfort, conveniently zoned to suit their needs. Outside, there is no need for unsightly, multiple wall penetrations with condensers to distract from the building's architectural beauty.

The result is a more attractive property, in more ways than one.

#### 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.

#### TRUST THE EXPERTS AT CLIMATEMASTER®

System-wide savings. Comfortable, zoned control. One smart system does it all. ClimateMaster®. The intelligent choice for energy efficiency in office buildings.





## UNIT FEATURES

Product Series	Standard Features & Options																																											
	Filter Frame with Duct Collar	Filter Rail	4" Filter	2" Filter	1" Filter	3/8" Washable	Hydronic Heat	Water Side Economizer	vflow® Internal Variable Water flow Pump	Vflow Modulating Water Valve	Two-Way Control Valve	Auto-flow Water Regulation	Internal Secondary Pump	Service Disconnect	Climadry (requires DXM2 Control)	E-coated Tube/Fin Air Coil	Tin Plated Tube/Fin Air Coils	Tube/Fin Air Coils	Microchannel Air Coils	DDC	Desuperheater Coil (HWG)	Extended Range Insulation	Ultraquiet (Mute) Package	Brazed Plate	Cupro Nickel Coil	Copper Water Coil	Condensate Overflow Protection	Remote Reset at Thermostat	Factory Installed Hanger Brackets (Horizontal)	Multiple Access Panels	Field Convertible Discharge (Horizontal)	Downflow Configuration	Dual Level Compressor Vibration Isolation	Belt Drive Fan	ECM-CV	ECM-CT	High Static PSC Blower	PSC	DXM2 (i-gate)	DXM	CXM			
Tranquility® 30 Digital Two-Stage (TEH/V)																																												
Tranquility® High Efficiency Two-Stage (TZH/V)																																												
Tranquility® 20 Single-Stage (TSH/V)																																												
Tranquility® 16 Compact (TCH/V)																																												
Tranquility® High Efficiency (TRH/V)																																												
Tranquility® 22 High Efficiency Two-Stage (TYH/V)																																												
Tranquility® Vertical Stack (TSM)																																												
Tranquility® Vertical Stack (TSL)																																												
Tranquility® Large (TL)																																												
Tranquility® Compact Belt Drive (TCH Large)																																												
Tranquility® Compact Belt Drive (TCV Large)																																												
Tranquility® Console (TRC)																																												
Tranquility® Rooftop (TRE)																																												
Tranquility® Rooftop (TRT)																																												
Tranquility® Modular Water-to-Water (TMW) 036 - 340																																												
Tranquility® Modular Water-to-Water (TMW) 360 - 840																																												

O = Optional

S = Standard

\* microchannel coils standard on sizes 026 - 049, tube/fin coils standard on 064 - 072

\*\* tube/fin coils standard on all sizes except 024 to 048 which have microchannel coils

<sup>1</sup> Desuperheater optional on sizes 036 - 120

<sup>2</sup> DXM2 required for ECM-CV

<sup>3</sup> front return units come standard with 3/8" washable filter, bottom returns have 1" standard filter



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