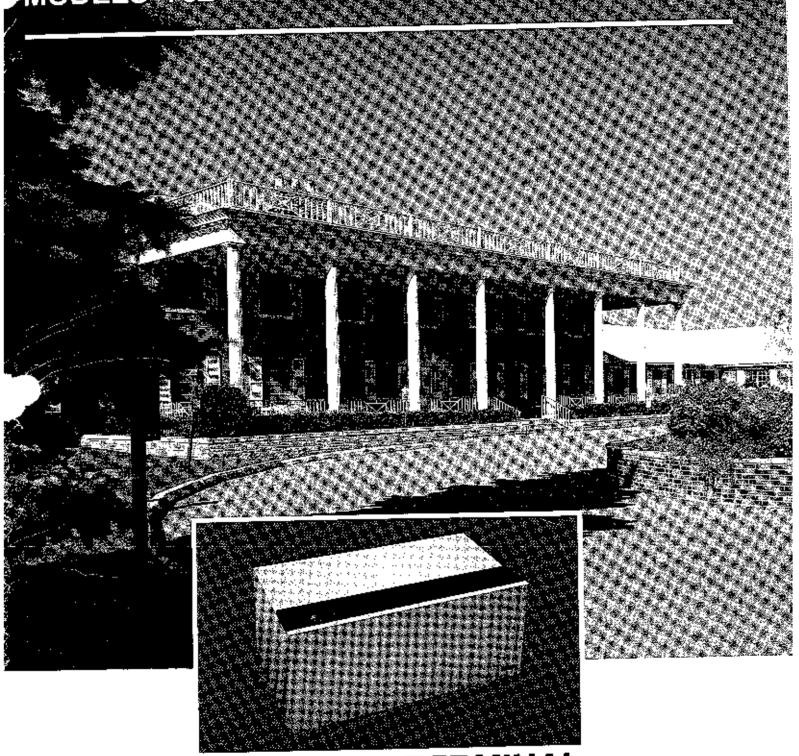
## Climate Master Series

MODELS 702 703 704



PACKAGED TERMINAL
AIR CONDITIONERS and HEAT PUMPS

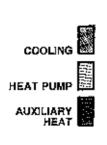


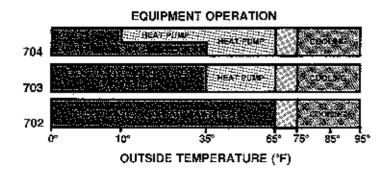
## **Climate Master Series**

Climate Master offers the broadest line of through-the-wall equipment for heating, air conditioning, and ventilating. It ranges from low first-cost 702 heat/cooling units

through standard range 703 heat pumps to 704 Max-Range " heat pumps with the lowest operating cost of any packaged terminal equipment.







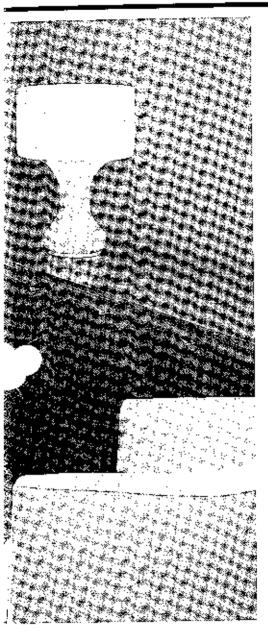
Maddal apartment The Ascot, 407 Fark Avenue Bouth at 28th Street, New®

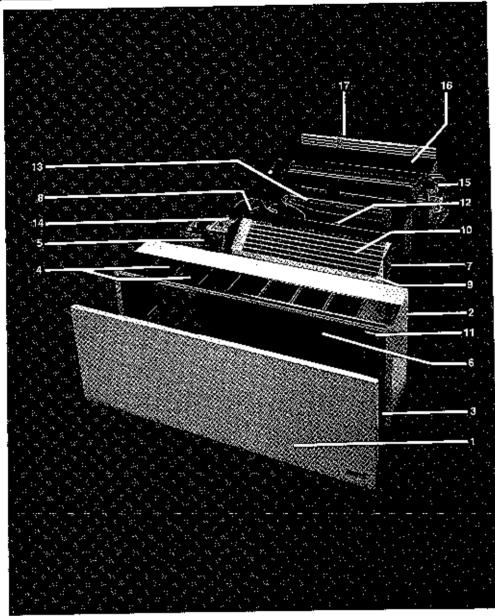
Packaged Terminal HVAC units meet room air comfort requirements in both new construction and retrofit applications. They are low in cost: both in installation and operation. Packaged terminal units save vital room area because most of the unit is in the exterior wall cavity. They also offer the major advantage of individual zone control: different comfort levels can be set for different areas, and service on any one unit will not interrupt operation in another area of the building.

Climate Master Packaged Terminal units are designed for long-term efficient operation in buildings such schools, hospitals...otels, nursing homes, offices, and apartments.









Every Package Terminal unit from Climate Master is designed, built, and tested in our own 450,000 square foot manufacturing facility.

Climate Master has been in the air conditioning business for over 25 years, and offers extensive support through representatives throughout the United States and Canada.

mate Master is a member of the Air Londitioning and Refrigeration Institute (ARI), and submits every model to ARI for testing and certification.

### A disassembled Model 703-MP

 Heavy-gauge stoe, cabinet front – fully insulated, slides off for service access.
 Heavy-gauge steel room cabinet different sizes to fit various wall widths.

3. Adjustable steel kickplate. 4. Control panel access/adjustable four-way supply air grilles. 5. Steel control compartment cover/wiring diagram/rating plate. 6. Insulated steel blower compartment cover.

7. Fully-assembled heating/cooling chassis – slides out for service. 8. High efficiency compressor. 9. High-efficiency 2-speed blower motor – entire assembly removable. 10. Refrigerant-to-air heat exchange.

11. Litetime washable air filter. 12. Outdoor air fan/motor unit. 13. Outdoor air-lo-refrigerant heat exchangor. 14. Optional steam or hot water heating coil. 15. Steel wall box. 16. Extruded aluminum outdoor louver.

# Three different systems to meet every heating and air conditioning requirements

702 PERF	ORM	IANCE							704 PERFORMANCE		
MODEL	(11)	702-06	702-08	702-10 (12)	702-12B	702-12C	702-14	702-15	MODELS (11)	704-06	7
Cooling BTL EER Amps	JH (1).	6700 8,2 ,4,1	8300 8.9 4.8	10200 8.9	12100 8.9 6.8	11500 9.2 7.1	13700 8.8 7.8	15300 8.0 9.5	Cooling 8TUH (1): EER Amps FL Watts	6600 8:0 4.1 830	
Air Flow CE High Low Vest 15		330 295 45	350 315 45		420 390 50	430 385 50	460 415 50	420 390 50	High Temp. (47° 0.A.T.) Heating BTUH (2) COP Amps FL Watts	6400 2.6 4.1 725	
703 DATA	CHA	ART							Low Temp. (17º O.A.T.)	94.00 (194.00)	
MODEL (	(1)	703-06	703-08	703-10 (12)	703-12A	703-12B	703-14	703-15	Heating BTUH (3) (8) COP Watts	3600 1.6 860	
Cooling BTD EER Amps F		6600 8.0 4.1	7900 6.5 4.8	.9800 8.8	12000 8:3 7:1	1.1200 9.1 7.1	13300 9:0 7:8	14800 7.8 9.5	Air Row CFM High Low	360 325	
Heating BTO COP Amps F		6400 2.6 4.1	7500 2.7 4.8		11000 2.6 5.9	70900 2.9	12800 2.8 7.8	14000 2.6 8.0	Vent (5)	45.	COP
Alr Flow GPA High Low Vent (5)		360 325 45	370 335 45		420 390 50	460 415 50	420 380 50	420 390 50	Heat Pump Capacity 65° and COP at Various 55° 00 students at the control of the c	8100 7200 6200	3:13 2:85 2:53 2:18
Capacity	Outside Temp.	BTUH COP	ETUH COP		BTUH COP	BTUH COP	BTUH COP	BTUH COP	70% R.H. 25°	4300	1.87 -54
and COP vs. Quiside Tempera- ture at 70% R.H.	62° 57° 47° 37° 32°	7900 3.05 7400 2.91 6400 2.59 5400 2.59 4450 1.92	9400 3.13 8800 3.0 7500 2.68 6350 2.4 5200 2.06		13200   2.8   12320   2.8   11000   2.6   9240   2.4   8570   2.1	12800 3.17 12150 3.14 10900 2.89 9500 2.64 8100 2.36	13750 2.86 12800 2.8 11150 2.57	140001 2.63	704 ELECTRIC HEAT	3100	208

	OPTIONS

ELECTRIC HEAT H								
				4. <b>230</b>				
				2.7 24 5				
BTUH (4)	7000 1050	0 12800 139	900 8600	12800 15600	11300	13800		
Total Amns (8)	12.0 3.0 10.1 11.2 1	5   43.7*   0.4.  - 138.3   419	0 -   2:45 7   11 1	12800 15600 3.7 4.5 15.5 20.0	3.25	.3.984 215 6: 7		
rotal Allips (b)	100.11	1 (20:0.1		1 10:01 1 20:01	1.15.1	110101		

HYDRONIC HEAT						
MODELS						
		Hot Water				
702/703-06 to 10. 702/703-12 to 15.	17700%	13500				
702/703-12 to 15	18600	14300				

Heater Code 1 2 Stage 1 (8)	1
Stage 1 (8)	
BTU 2795 4178 KW 820 1225	48 14
Stage 1 & 2 (9) BTU .5590 8355 KW 1640 2450	97 28

#### NOTES:

- † Capacitles Tested and Rated in Accordance with ARI Standard 380 Conditions of 95 DB:75 WB Outside, 80 DB:67 WB Inside.
- 2 47 DB/43 WB Outside, 70 DB Inside.
- 3 17 DB/15 WB Outside, 70 DB Inside (Heat Pump only).
- 4 Heating BTUH includes fan motor.
- 5 Units with higher vent CFM are available as special order.
- 5 Electric Heat and Heat Pump are never
- 7 Steam BTUH based on 70°F DB EAT (a. PSiG. Hot water BTUH based on 70°F D; EAT, 200°F EWT 180 LWT.
- 8 For total capacity of unit below 35°F O.A.T. add first stage heat to Heat Pump Capacity.

O.A.T.: Outdoor Air Temperature.

All Climate Master units are built with the highest quality components, and are designed for long-term efficient operation. Refrigeration systems are of heavy-duty construction, using high-efficiency rotary compressors (Models over 15000 BTUH use reciprocating compressors) with built-moverload protection. The compressor, condenser fan, and condenser motor are all isolated behind an insulated steet bulkhoad.

Roomaindelivery is provided by two doubleiniet centrifugal blower wheels. The entire blower deck can easily be removed for servicing. All Climate Master Packaged Terminal equipment includes a positive condensate removal system for efficient operation and to prevent staining of building exteriors. Each unit also may include a fresh air damper, to provide outside air for ventilation.

All units include factory-mounted controls and a thermostat: either a manual changeover thermostat (OFF/HIGH COOL/LOW COOL/HEAT/FAN), or an automatic changeover thermostat (OFF/AUTO/FAN). Numerous additional control options are available.

The Model 702 is a self contained air-cooled air conditioner unit for dependable service in all applications, it has been designed for installations where low first cost is the primary concern.

To allow use of the most economical heating system, the 702 can be supplied with a built-in electric heater, a low-pressure steam coil, or a hot water heating coil.

Model 702 includes a slinger-ring type outhdoor fan, which provides positive removal of any condensate by evaporating it on the outdoor coil.

tontrols available inlude Automatic Changever (right), and Manual change-over (far right), ble on all units.





## Two cabinet styles to meet any architectural need

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Available Mid-1985								

MP Cabinet SP Cabinet

The Model 703 standard-range heat pump offers a balance of affordable first cost with high-efficiency energy saving features that greatly reduce operating costs.

The 703 heat pump will operate on the heat pump cycle to outdoor temperatures as low as 35°F (or lower, depending on the humidity). Back-up heating is either an electric resistance heater, or a steam or hot water coil, depending on the requirements of the building.

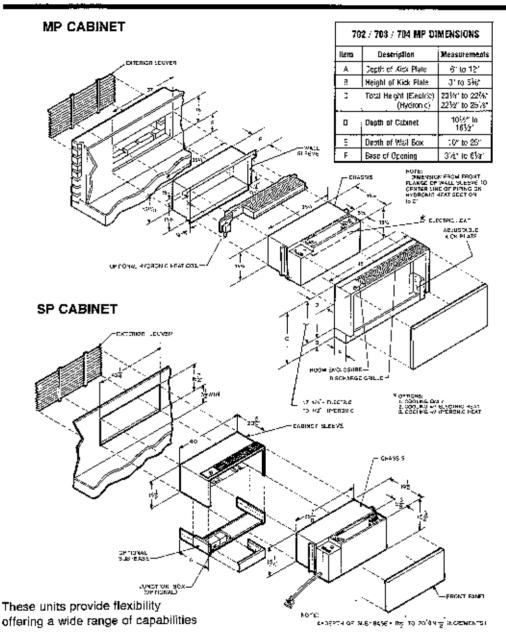
As with all Climate Master units, the 703 is factory charged, leak and run tested to insure that every unit shipped will operate properly when installed.

The Model 704 Max-Range™ Packaged Terminal heat pump is the most advanced packaged terminal HVAC unit, with the lowest operating cost of any unit available today.

The system operates on the heat pump cycle to 10°F outdoor temperature. The 704° includes a reverse-cycle defrost system to a low reliable, efficient low temperature operation.

Max-Range " also operates the factoryinstalled two-stage electric heater. This is a sheath-type heater, which prevents "glow" and protects the room occupant from any possibility of contact with a "hot" heater element. As needed, the first stage of electric heat will operate in conjunction with the heat pump. When outside temperatures drop below 10°F, the heat pump is turned off, and both stages of electric heat are used to heat the space.

## Climate Master offers single or multi-piece cabinetry



The Climate Master offers single or multipiece cabinetry Climate Master offers a choice of cabinet styles, either single-piece or multi-piece. Both are heavy gauge steel, shished inside and out for corrosion protection. Chassis glides are die-formed in the cabinets to permit easy removal of the chassis.

The MP (Multi-Piece) cabinet is designed for installation in walls 10" to 25" thick. Its modular construction makes it especially convenient for use in new or retrofit buildings.

The MP cabinet consists of a wall box, an insulated two-piece room cabinet, and an outcoor louver.

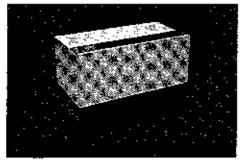
An option for the MP cabinet is an enlarged cabinet section which allows installation in walls as small as 5".

The SP (Single-Piece) cabinet is designed for installation in walls up to 12" thick. It can be included in the initial building design, or used in renovation of existing buildings.

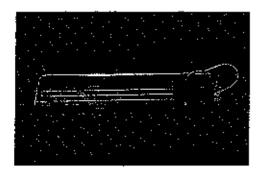
The SP cabinet consists of an insulated sleeve with a removable front panel, and an outdoor louver.

Options for the SP cabinet include a cabinet extension which allows installation in walls up to 22" thick, a standard sub-base, or a hydronic sub-base which allows steam or hot water back-up heat.

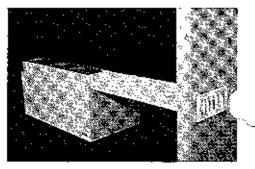
## Selected Options



SP Hydronic Heater Sub Base



MP Hydronic Heat Coil



Adjoining Room Outlet

## Offered options adapt Climate Master units to fit any need

## **Available Options**

### Cabinet Options

BAR GRILL DISCHARGE - Replaces the standard stamped-steel four-way adjustable discharge griff for a more sophisticated appearance.

ADJOINING ROOM OUTLET - Allows up to 40% of air flow to be directed to an adjoining room, to permit conditioning two rooms with one unit.

#### STAMPED OUTDOOR LOUVER -

Replaces the standard extruded a uminum gutdoor louver.

CONDENSATE DRAIN KIT (for heat pump) - This kit allows any unit to be connected to an internal drain system.

HYDRONIC HEAT SUB-BASE - This sub-base includes a hydronic (steam or hot water) heating coil, allowing units installed in a SP cabinet the option of hydronic heat with full service access to the chassis.

HIGH VOLUME FRESH AIR - Additional fresh air is brought into the unit for hospital or nursing home applications.

SEA COAST CONSTRUCTION - Various evels of salt-air protection for the outdoor condenser components are available.

### Control Options

CYCLING AIR CONTROL (CAC) SWITCH-Allows the building owner to select continuous or eyeling fan control.

PROGRAM RELAY - Factory-installed control relay (24 or 115 VAC) allows unit control by a time clock or energy management system.

PROGRAM RELAY WITH NIGHT SET-BACK THERMOSTAT - Program relay with setback thermostal to maintain the space at 50°F during unoccupied hours.

#### PROGRAM RELAY WITH NIGHT SETBACK THERMOSTAT AND

OVERRIDE TIMER - Program relay and setback thormostat with a limer which a lows the populant to averride the central con-

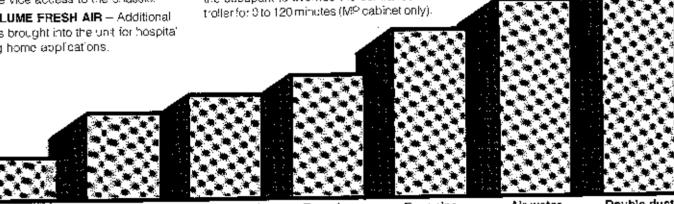
REMOTE THERMOSTAT - Controls unit from a wall-mounted 24 VAC thermostat: manual or automatic changeover.

MASTER/SLAVE - Allows a single wallthermostatite control any number of units

#### POWER LINE CARRIER (PLC) RECEIVER

- Factory-mounted PLC Receiver allows unit control by Climate Master ENERLOG Hotel or Commercial Power Line Carrier Energy. Management System.

POWER CONNECTION OPTIONS - All Packaged Terminal units offer line cords with unit mounted receptacles, with or without unit mounted circuit breakers.



Packaged terminal units

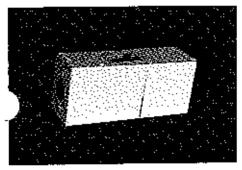
Water-to-air heat pumps Rooftop VAV

Two-pipe fan-coil

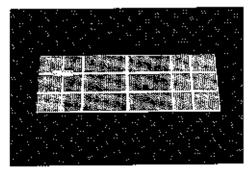
Four pipe fan-coil

Air-water induction Double duct

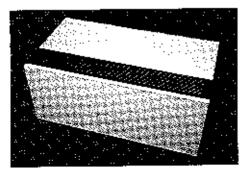
Typical Installation Cost Comparison Basacion 11 story building



Circuit Breaker

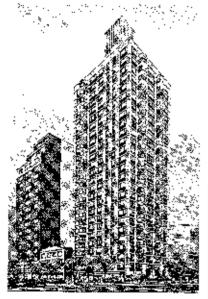


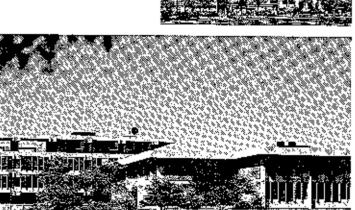
Optional Outdoor Louver

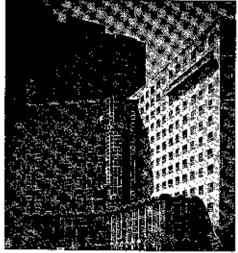


Bar Grill on SP Cabinet

Climate Master Packaged Terminal units – designed for efficient operation in multi-room, multi-purpose buildings.















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