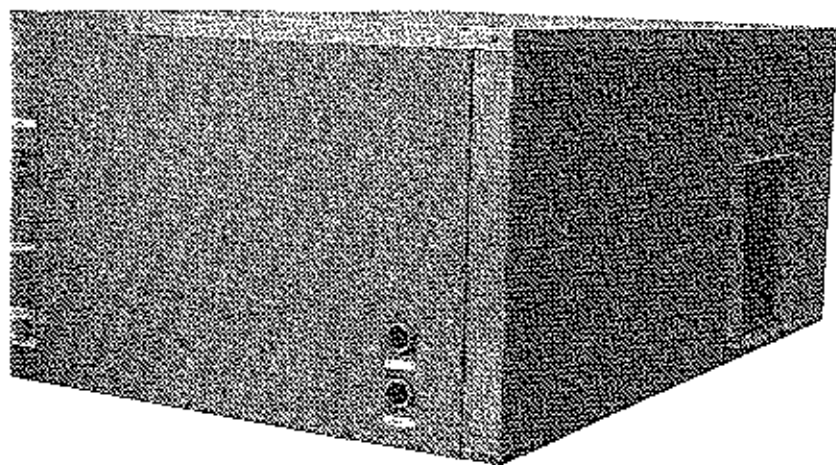


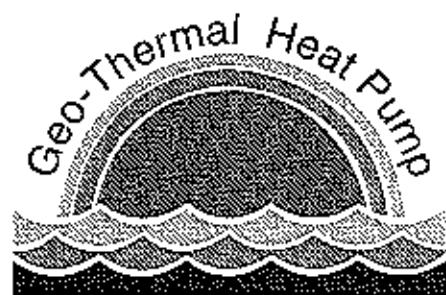
*PDS 1000 Series*

# Packaged Dehumidification System



Advanced dehumidification systems  
for commercial, industrial  
and residential applications.

- » Energy efficient
- » For high latent loads and moisture removal
- » Temperature control option

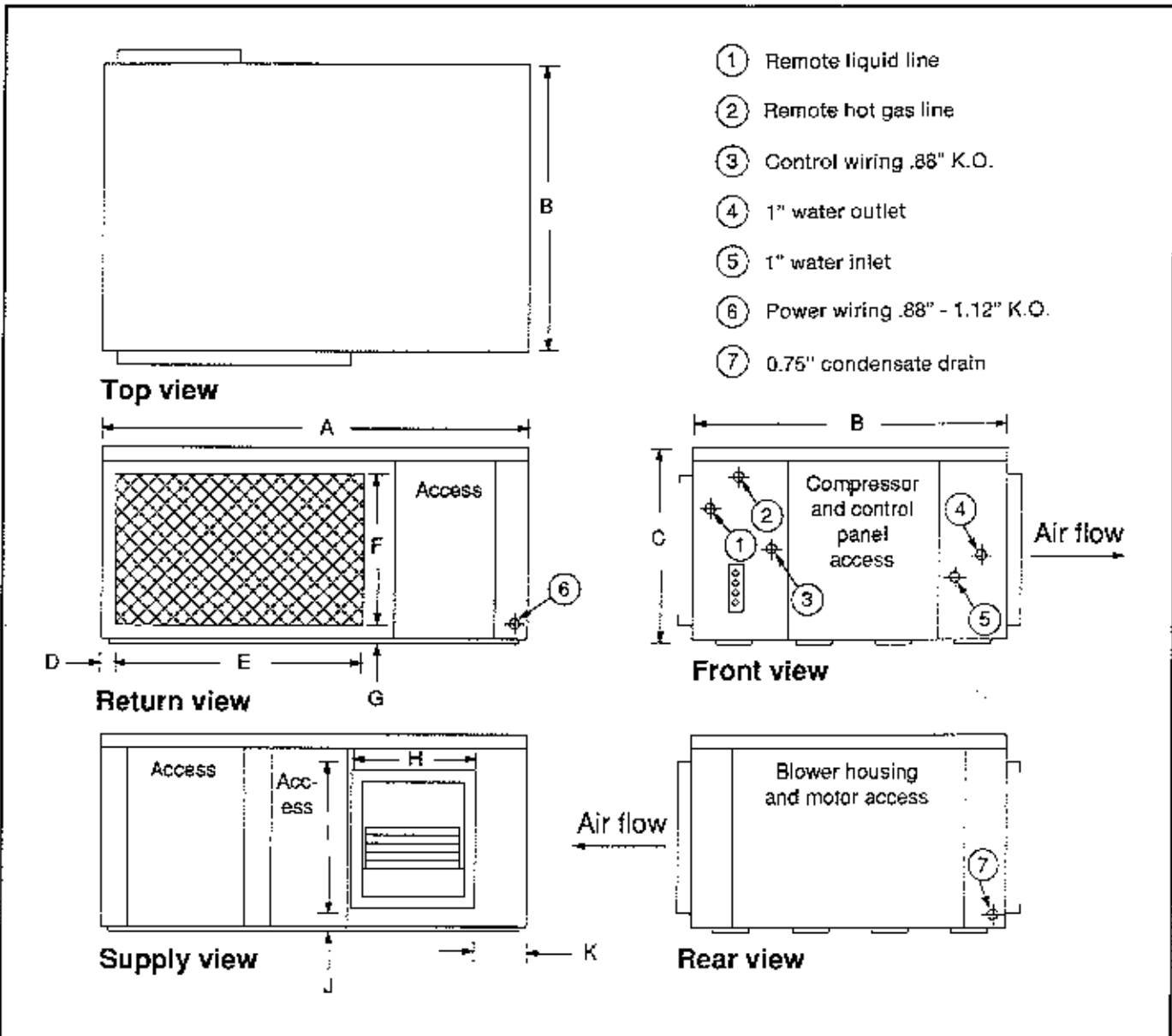


## ClimateMaster®

Q u a l i t y   B u i l t   F o r   L i f e

# Environmental System Package

## Physical Dimensions



	PDS-1008	PDS-1016	PDS-1025	PDS-1036	PDS-1060
<b>A</b>	48-1/2	48-1/2	58	67	67
<b>B</b>	36	36	36	44	44
<b>C</b>	25-3/16	25-3/16	25-3/16	44-1/8	44-1/8
<b>D</b>	1	1	1	1	1
<b>E</b>	25	25	36	40	40
<b>F</b>	20-1/8	20-1/8	20-1/8	36-5/16	36-5/16
<b>G</b>	5-1/16	5-1/16	5-1/16	8	8
<b>H</b>	10-1/8	14-5/16	12-7/16	16-1/8	16-1/8
<b>I</b>	11-1/8	12-7/16	14-5/16	17-1/2	17-1/2
<b>J</b>	6	6	7-3/16	8-1/4	8-1/4
<b>K</b>	3-1/2	3-1/2	4-1/2	16	16

# Environmental System Package

## Design Specifications

MODEL NUMBER	PDS-1008	PDS-1016	PDS-1025	PDS-1036	PDS-1060
Capacity LBS/HR ●	8.54	16.0	24.0	36.1	58.9
Available Heat BTU'S/HR ■	17065	31050	44695	68390	112925
Compressor KW Input	1.99	3.46	5.06	7.94	12.40
Fan Motor KW Input	0.35	0.65	1.00	1.50	2.40
TOTAL KW Input	2.34	4.11	6.06	9.44	14.80
TOTAL Cooling BTU'S/HR ▲	24715	42850	65890	102290	150795
SENSIBLE Cooling BTU'S/HR	15660	25830	40400	64000	88380
Condenser Capacity BTU'S/HR	31530	54665	82550	129270	193115
Pool Heater PD/FT	2.5	4.0	5.0	8.5	14.0
GPM	1.7	3.0	4.5	6.9	10.0
Pipe Sizes w/Unions	1"	1"	1"	1"	1"
Air Flow CFM ★	900	1500	2400	3500	5000
E.S.P. In. W.C.	0.25"	0.5"	0.5"	1.0"	1.0"
Blower Size	9x7DD	10x10BD	12x9BD	15x11BD	15x11BD
Blower Motor HP	1/4	3/4	1-1/2	2	3
FLA @ 208-230V / 1PH / 60HZ	1.6	7.6	11.0	—	—
FLA @ 208-230V / 3PH / 60HZ	1.6	3.1	5.7	7.5	10.6
FLA @ 460V / 3PH / 60HZ	.80	1.5	2.6	3.4	4.8
Compressor(s)	1	1	1	1	1
FLA @ 208-230V / 1PH / 60HZ	15.6	32.6	48.7	—	—
FLA @ 208-230V / 3PH / 60HZ	9.9	19.1	31.3	70.0	100.0
FLA @ 460V / 3PH / 60HZ	5.1	9.1	15.4	30.0	50.0
Electrical T.D. Fuse @ 208-230V / 1PH / 60HZ	25.0	50.0	70.0	—	—
208-230V / 3PH / 60HZ	15.0	30.0	50.0	70.0	100.0
460V / 3PH / 60HZ	15.0	10.0	25.0	30.0	45.0
Dimensions Supply Air Collar W x H	10-1/8 x 11-1/8	14-5/16 x 12-7/16	12-7/16 x 14-5/16	16-1/8 x 17-1/2	16-1/8 x 17-1/2
Return Air Connection W x H	25 x 20-1/8	25 x 20-1/8	36 x 20-1/8	40 x 36-5/16	40 x 36-5/16
Filter Size 1"	(1) 20x25	(1) 20x25	(1) 20x16 (1) 20x20	(2) 20x16 (2) 20x20	(2) 20x16 (2) 20x20
Approximate Shipping Weight (LBS.)	400	475	600	900	1000
Operating Weight (LBS.)	380	455	575	850	950

● Dehumidification Capacity is based on entering air conditions 82° F DB / 50% RH.

■ Available Heat is the amount of heat that can be applied toward pool water heating, or space heating.  
Available Heat = (Total Heat Rejected) - (Gross Sensible Heat) + (Fan Motor Watts x 3.413).

▲ Cooling is available with optional remote condenser and remote condenser package.

★ Blower HP and CFM are based on standard sea level conditions. Consult factory for higher altitudes and higher E.S.P.

# ***PDS 1000 Series***

## ***Packaged Dehumidification System***

Your answer for precise humidity and temperature control with reduced maintenance, lower operating costs and high reliability is the Climate Master PDS 1000. The unit's automatic humidistat and thermostat provides precision control of space temperature and humidity by automatically selecting the proper sequence of operation to maintain control settings. The result is dehumidification with simultaneous dry warm air for heating or dry cool air for cooling. High latent removal air coils, high efficiency compressors and blower motors and the PDS 1000's ability to recycle recovered heat results in superior operation and low operating costs.

Mechanical refrigeration cycle dehumidifiers have long been accepted as the most cost effective way to control humidity. The PDS 1000 is no exception, as it recovers energy by converting latent heat (moisture) into sensible heat. The recovered sensible heat can be either used to assist in satisfying space or other heating requirements, or simply rejected to a water source or the outside air. The PDS 1000 provides the benefit of a controlled environment with energy savings of up to 80% when compared to conventional systems.

### **Configurations:**

#### **Standard**

Horizontal cabinet with straight through discharge

#### **Standard Features:**

##### **Exclusive ClimateMaster water to refrigerant heat exchanger.**

Made with special materials to withstand harsh environments while delivering superior performance.

##### **Vinyl-coated air coils.**

For extra protection from corrosion.

##### **100% hot gas reheat.**

When required, delivers 100% of available heat to the air space.

##### **Fully accessible unit.**

Removable panels on all four sides make service access easy.

#### **Condenser Options:**

##### **Remote air-cooled condenser.**

Allows heat rejection to the outdoor air when comfort conditions are met but dehumidification is still required.

During manufacturing, each unit is pressure tested, charged with refrigerant and laboratory tested under design conditions to ensure the highest quality of operation and performance. Our thorough factory inspection and testing procedures make the PDS 1000 your best bet for years of trouble free operation.

An engineered design that allows quick and easy access for simple maintenance is essential for today's mechanical equipment. The PDS 1000 has access doors on all four sides for easy accessibility to all interior components. Status lights and safety controls monitor the unit's operational status and protect against potential damaging malfunctions.

The 1990's demand products that are well engineered, ensure efficient operation and are virtually maintenance free. The PDS 1000 meets the challenge.

#### **Optional**

Optional discharge air in the vertical upflow or vertical downflow positions

##### **Fully insulated cabinet and isolated compressor section.**

Because the compressor section is isolated from the blower section and the cabinet is fully insulated, the PDS unit operates very quietly.

##### **High efficiency hermetically sealed compressor.**

For quiet, efficient, reliable operation.

##### **Status-lights.**

Indicate the operation mode of the unit.

##### **Water-cooled condenser.**

Allows heat rejection into a water source when comfort conditions are met but dehumidification is still required.



**ClimateMaster**

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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 do 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.