



Supplement to Certificate of Compliance

Certificate: 1296841

Master Contract: 155499

The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
1438105	2004/02/16	Packaged Heat Pump, High Rise, additional size 024, alternate components Wilspec reversing valves, carrier compressor, Astro Air coils.

History

14381051 Jan 8/0 Alternate construction with Fasco motors, model 81615 with new compressor and coils and 23 oz. of refrigerant.

1296841 May 7/02 Original Certification



LISTING REPORT ETL TESTING LABORATORIES, INC.

1089 E. COLLINS BLVD. RICHARDSON, TEXAS 75081

Order No. 97*1292

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Issued: October 13, 1997
Revised: December 9, 1997

LISTING REPORT NO. 97*1292-1

INSPECTION, TESTS AND EVALUATION
OF Heating and Cooling Equipment

RENDERED TO

CLIMATE MASTERS
OKLAHOMA CITY, OK

GENERAL:

This report gives the results of the inspection, tests, and evaluation of the Air conditioners\heat pump units, models R and CD series, for compliance with the requirements of the Standards for Heating and Cooling Equipment (UL 1995, Second Edition) and Heating and Cooling Equipment (CAN\CSA C22.2 No. 236).

The samples were provided by the client and investigated at their facility in Oklahoma City, OK commencing on March 24, 1997, concluding on March 31, 1997.

Participant: CLIMATE MASTER
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Manufacturer: Same as Participant

An independent organization testing for safety, performance, and certification.

All services undertaken subject to the following general policy: Reports are submitted for exclusive use of the clients to whom they are addressed. Their significance is subject to the adequacy and representative character of the samples and to the comprehensiveness of the tests, examinations or surveys made. No quotations from reports or use of ETL's name is permitted except as expressly authorized by ETL in writing.

CONSTRUCTION

PRODUCT COVERED:

R and CD Series Packaged Rooftop air conditioners\heat pump 3-20 ton units:

Model nos.: R followed by E or C; followed by 03, 04, 05, 07, 08, 10, 12, 15, or 20; followed by H, F, N, U or V; followed by A, B, C, D or E; followed by A or B; followed by A; followed by A, B, C, D, E, F or G; followed by AA, BA or WA; followed by A, B or C; followed by A, B or C; followed by O; followed by A.

Model nos.: CD; followed by 15 or 30; followed by /; followed by 20 or 25; followed by F or H; followed by A; followed by A; followed by A or W; followed by H or V; followed by A, B or C; followed by O; followed by A.

PRODUCT DESCRIPTION:

The products covered by this report are three phase air conditioners and heat pumps designed for commercial use. The product is intended to be permanently connected to the supply source.

MODEL SIMILARITY:

All R Series models are identical in design. Model variations in the R Series are indicated by the model number scheme as follows:

	Model	<u>R</u>	<u>E</u>	<u>03</u>	<u>H</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>AA</u>	<u>A</u>	<u>A</u>	<u>O</u>	<u>A</u>
Positions:		I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII

Where:

- | | | |
|----------|-----|--|
| Position | I | Denotes Rooftop Series
R - Rooftop |
| Position | II | Denotes Application
E - Heat pump
C - Cooling only |
| Position | III | Denotes Size (Capacity)
03 - 3 ton
04 - 4 ton
05 - 5 ton
07 - 7 ton
08 - 8 ton
10 - 10 ton
12 - 12 ton
15 - 15 ton
20 - 20 ton |
| Position | IV | Denotes Power Supply
H - 208-230 V, 3 Ph, 60 Hz
F - 460 V, 3 Ph, 60 Hz
N - 575 V, 3 Ph, 60 Hz
U - 380 V, 3 Ph, 50 Hz
V - 220-240, 3 Ph, 50 Hz |
| Position | V | Denotes Disconnect
A - None
B - Disconnect
C - Disconnect+GFI
D - Circuit Breaker
E - Circuit Breaker+GFI |

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- Position VI Denotes Fan Drive Package
A - STD Motor & Drive
B - HI-Eff Motor STD Size & STD Drive
- Position VII Denotes Electric Heat
A - None
- Position VIII Denotes Outside Air
A - None
B - Manual OSA
C - Motorized OSA
D - Econo 3 Position
E - Econo Mod Global
F - Econo Mod OSA Enthalpy
G - Econo Mod Diff Enthalpy
- Position IX Denotes Controls
AA - Standard
BA - CMC STD
WA - Walmart STD
- Position X Denotes Filter
A - 2 inches Throwaway
B - 2 inches Pleated 30% Eff.
C - 4 inches Pleated 30% Eff.
- Position XI Denotes Condenser Water Piping
A - Standard
B - Motorized ON/OFF Valve
C - Load Match Pump (R*03* to R*10*)
- Position XII Denotes Standard
O - Standard
- Position XIII Denotes Revision Level
A - Current

All CD Series models are identical in design. Model variations in the CD Series are indicated by the model number scheme as follows:

Model CD 15 / 20 F A A A H B O A
Positions: I II III IV V VI VII VIII IX X XI XII

Where:

- Position I Denotes Rooftop Series
CD - Climadry
- Position II Cooling Capacity (Return Air)
15 - 15 Ton
30 - 30 Ton
- Position III Separator
- Position IV Cooling Capacity (Outside Air)
20 - 20 Ton
25 - 25 Ton
- Position V Power Supply
F - 460 VAC, 3 ph, 60 Hz
H - 208/230 VAC, 3 ph, 60 Hz

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Position VI Fan Drive Package
A - STD Motor & Drive

Position VII Auxiliary Heat
A - None

Position VIII Controls
A - Standard with Johnson Controller
W - Standard with Wal-Mart Controller

Position IX Airflow Configuration
H - Horizontal
V - Vertical

Position X Filter Option
A - 2 inches Throwaway
B - 2 inches Pleated
C - 4 inches Pleated

Position XI Denotes Standard Special
0 - Standard
A - Special #1
B - Special #2

Position XII Denotes Revision Level
A - Current

ELECTRICAL RATINGS:

Nameplate Ratings for R Series Units

Model	Refrigerant		Volts (V)	Hz	ph	MCA	Max. Fuse/ HACR CB Size		Compressor		Fan	
	Type	Amount (oz.)					RLA	LRA	FLA	hp		
R*03*	R-22	56	208-230	50/60	3	16.98	25	10.7	63.0	3.6	1	
R*03*	R-22	56	460	50/60	3	8.05	15	5.0	31.0	1.8	1	
R*04*	R-22	64	208-230	50/60	3	20.98	30	13.9	88.0	3.6	1	
R*04*	R-22	64	460	50/60	3	9.80	15	6.4	44.0	1.8	1	
R*04*	R-22	64	575	50/60	3	8.23	15	5.3	34.0	1.6	1	
R*05*	R-22	72	208-230	50/60	3	28.60	45	20.0	123.0	3.6	1	
R*05*	R-22	72	460	50/60	3	11.18	15	7.5	49.5	1.8	1	
R*05*	R-22	72	575	50/60	3	9.60	15	6.4	40.0	1.6	1	
R*07*	R-22	101	208-230	50/60	3	32.08	50	20.7	156.0	6.2	2	
R*07*	R-22	101	460	50/60	3	15.60	25	10.0	70.0	3.1	2	
R*07*	R-22	101	575	50/60	3	12.55	20	8.2	54.0	2.3	2	
R*08*	R-22	128	208-230	50/60	3	34.89	45	13.9	88.0	3.6	1	
R*08*	R-22	128	460	50/60	3	16.20	20	6.4	44.0	1.8	1	
R*08*	R-22	128	575	50/60	3	13.53	15	5.3	34.0	1.6	1	
R*10*	R-22	144	208-230	50/60	3	51.20	70	20.0	123.0	6.2	2	
R*10*	R-22	144	460	50/60	3	19.98	25	7.5	49.5	3.1	2	
R*10*	R-22	144	575	50/60	3	16.70	20	6.4	40.0	2.3	2	
R*12*	R-22	173	208-230	50/60	3	52.63	70	19.3	123.0	9.2	3	
R*12*	R-22	173	460	50/60	3	26.80	35	10.0	62.0	4.3	3	
R*12*	R-22	173	575	50/60	3	20.95	25	7.8	50.0	3.4	3	
R*15*	R-22	282	208-230	50/60	3	55.78	70	20.7	156.0	9.2	3	
R*15*	R-22	282	460	50/60	3	26.80	35	10.0	70.0	4.3	3	
R*15*	R-22	282	575	50/60	3	21.85	30	8.2	54.0	3.4	3	
R*20*	R-22	320	208-230	50/60	3	88.13	110	33.3	232.0	13.2	5	
R*20*	R-22	320	460	50/60	3	44.85	60	17.0	116.0	6.6	5	
R*20*	R-22	320	575	50/60	3	34.40	45	12.8	97.0	5.6	5	

Note: * - represents all combinations. Models from R*03* to R*07* have single compressor, and models from R*08* to R*20* have two identical compressors. CB stands for Circuit Breaker

Nameplate Ratings for CD Series Units

Each Model has four compressors.

Model No. CD15/20H*:

<u>Volts</u> (V)	<u>Hz</u>	<u>ph</u>	<u>MCA</u>	<u>Fan</u>		<u>Max. Fuse/ HACR CB Size</u> (A)
				<u>FLA</u>	<u>hp</u>	
208/230	60	3	159	23.8	7.5	175

<u>Compressor</u>		<u>Refrigerant</u>			
<u>No.</u>	<u>RLA</u>	<u>LRA</u>	<u>Type</u>	<u>Amount(oz.)</u>	
1	38.0	222	R22	168	
2	38.0	222	R22	200	
3	25.0	156	R22	184	
4	25.0	156	R22	184	

Model No. CD15/20F*:

<u>Volts</u> (V)	<u>Hz</u>	<u>ph</u>	<u>MCA</u>	<u>Fan</u>		<u>Max. Fuse/ HACR CB Size</u> (A)
				<u>FLA</u>	<u>hp</u>	
460	60	3	74	10.8	7.5	80

<u>Compressor</u>		<u>Refrigerant</u>			
<u>No.</u>	<u>RLA</u>	<u>LRA</u>	<u>Type</u>	<u>Amount(oz.)</u>	
1	17.2	95	R22	168	
2	17.2	95	R22	200	
3	12.0	100	R22	184	
4	12.0	100	R22	184	

Note: * - represents all combinations.

PERFORMANCE NO. 1

Representative samples of the product were tested in accordance with the applicable requirements of the Standard for Heating and Cooling Equipment (UL 1995, Second Edition) and for Standard for Heating and Cooling Equipment (CAN\CSA C22.2 No. 236). Results of the tests indicate the specimens conform to the applicable test criteria. The following tests were conducted on the sample:

<u>UL 1995 Tests</u>	<u>Section</u>
Input Test	39.1, 39.2
Cooling Test	42
Heating Test	43
Fan motor Failure	50
Dielectric Voltage Test	52

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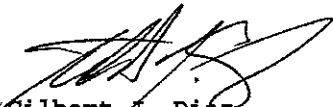
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CONCLUSION

Samples of the products covered have been tested, examined and found to comply with the applicable requirements of the Standard for Heating and Cooling Equipment (UL 1995, Second Edition) and for Standard for Heating and Cooling Equipment (CAN\CSA C22.2 No. 236).

Report Reviewed by:


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