

TECHNICAL SPECIFICATIONS

R6GF Series

Single Packaged Gas/Electric Units 2-Stage Heat/Cool with Variable Speed Blower and R-410A

R6GF 15 SEER 2-5 Ton Units

These single packaged gas/electrics are high efficiency self contained cooling units that can be installed on the roof or on a slab. The convertible unit design makes installations simple in all applications. Units are ETL and ETLc listed.



WARRANTY

- This product offers a 10-year All-Parts Warranty.
- This product offers a 10 year Quality Pledge to replace the entire unit, if the unit's major component (heat exchanger or compressor) fails within the first 10 years of operation, to the original owner.
- Consumer product registration required for both 10 year All Parts Warranty and Quality Pledge within a limited period of time after the installation. See current warranty document or visit our consumer web site for warranty details.

FEATURES and BENEFITS

- **Heavy-Gauge, Full Perimeter Base Rails:** Facilitates forklift handling and curb mounting.
- **Compact Footprint:** Easy to handle and transport.
- **Copeland Ultra-Tech Scroll Compressor:** 2 stage heat/cool.
- **Convertible Air Delivery:** Horizontal or downflow to accommodate rooftop or horizontal application.
- **Galvanized Steel Cabinet:** with polyurethane finish provides 950 hour salt spray protection to resist corrosion.
- **Wire Guard Coated with Earth Friendly Epoxy and Mesh Hail Guard:** Will never rust and protect the coil from being damaged by balls, lawnmowers, hail etc.
- **Externally Accessible High Flow Service Ports:** Quick access to refrigerant system without disrupting operation.
- **Hi/Low Pressure Switches:** Added Compressor Protection.
- **Access to Controls and Major Components:** Easy in and out service.
- **Corrosion-Resistant Drain Pan:** Quickly drains away evaporator condensate.
- **Proven, Industry Standard Components:** Easier service and availability.
- **Smaller Panels, Great Fit and Finish, Total Seal:** Well-designed, quality construction. Drip edge on top panels whisks away rainwater. Embossed bottom pan keeps blower compartment dry.
- **Thermostatic Expansion Valve:** Factory installed externally equalized thermostatic expansion valve provides precise refrigerant control under varying load conditions.
- **R-410A Refrigerant:** Environmentally friendly.
- **ECM Variable Speed Motor:** Advanced technology allows the motor to automatically adjust to different static loads. The variable speed motor allows for extra quiet operation and improved air quality.
- **Quiet Operation:** Low vibration 24" fan blade combined with custom venturi condenser fan.
- **Compressor Sound Blanket:** For quiet operation.
- **Hot Surface igniter:** Innovative application of an appliance type igniter with a 20 year history of reliability. Utilizes proven SmartLite® technology.

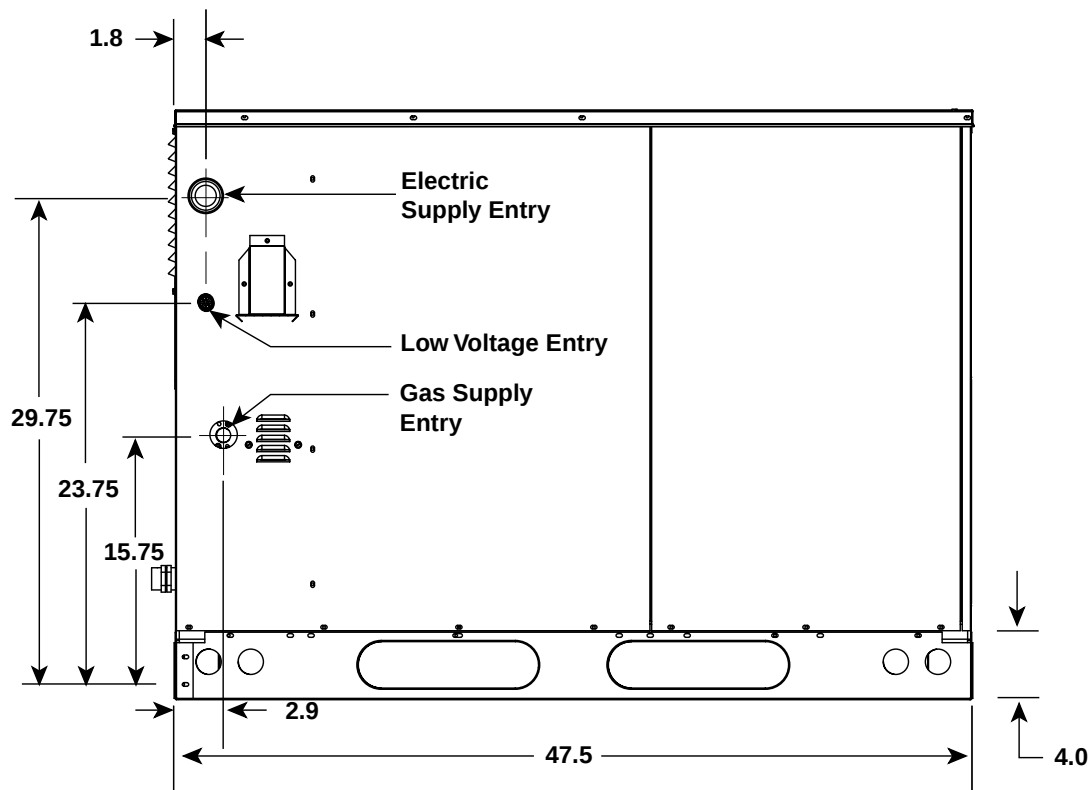
The diagram shows a unit model number with callouts for each part:

- R**: Application (Gas/Electric Packaged Unit)
- 6**: Series
- G**: Gas
- F**: F = 15 SEER
- X**: X = TXV
- 24**: Cooling Capacity (00) Btu
- K**: Electrical Code (K = 208/230-60-1)
- 072**: Heating Capacity (000) Btu
- X**: X = NOx

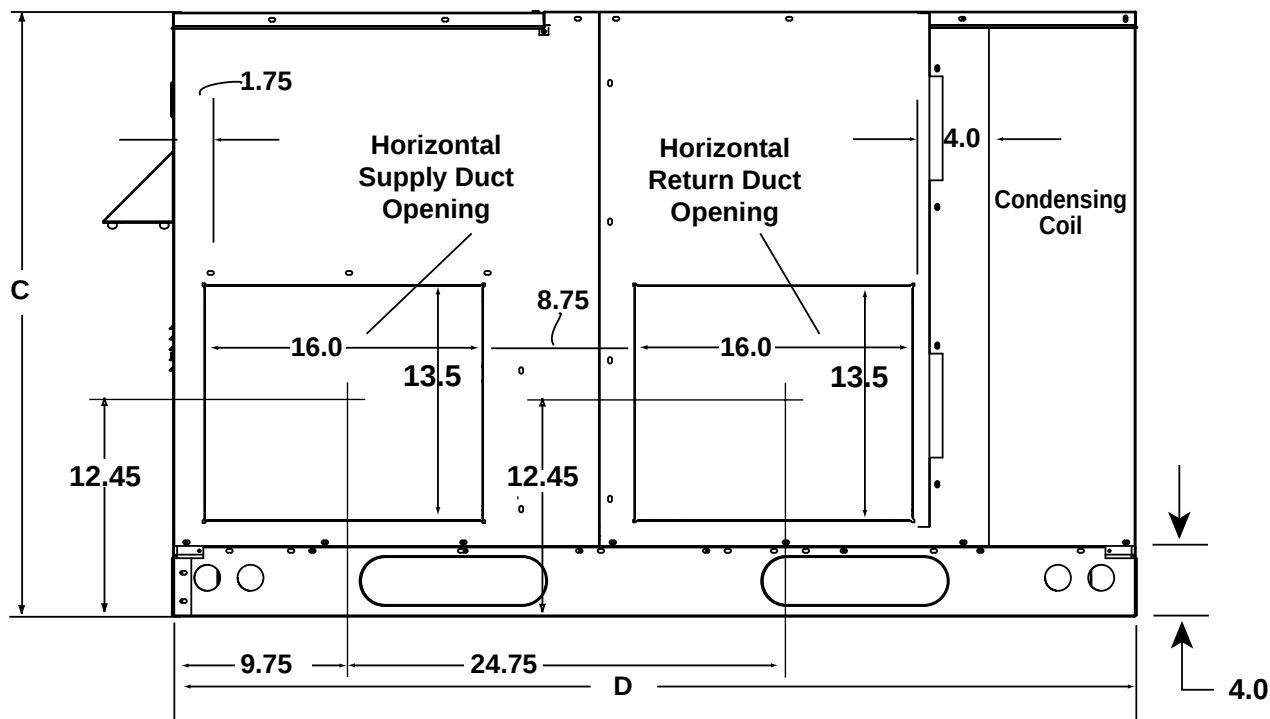
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Model Number	Unit Weight	Shipping Weight	Center of Gravity		Height (in inches)		Length D
			A	B	C		
					with base rails	without base rails	
X24K072X	460	470	26.0	27.0	39.0	35.3	55.8
X36K100X	480	490	26.0	27.0	39.0	35.3	55.8
X48K120X	609	618	26.0	27.0	47.0	43.3	55.8
X60K120X	659	675	30.0	26.5	47.0	43.3	63.6

DIMENSIONS (Continued)



Side View



Back View

SPECIFICATIONS AND ELECTRICAL DATA

SINGLE PHASE

MODEL	R6GF-X24K072X	R6GF-X36K100X	R6GF-X48K120X	R6GF-X60K120X
Performance				
Heating Input High/Low Btuh	72,000 / 46,800	100,000 / 65,000	120,000 / 72,000	120,000 / 72,000
Heating Output High/Low Btuh	57,600 / 37,440	80,000 / 52,000	96,000 / 57,600	96,000 / 57,600
Capacity-Cooling Btuh	24,000	35,200	47,000	55,500
AFUE	80	80	80	80
Efficiency -- SEER	15.00	15.00	15.00	15.00
Efficiency -- EER	12.00	12.00	12.00	12.00
Electrical Rating - 60 Hz				
Phase	1	1	1	1
Operating Voltage Range	187 - 253	187 - 253	187 - 253	187 - 253
Minimum Circuit Ampacity	20.8	30.9	41.9	44.4
Max. Overcurrent Protection	30	45	60	60
Compressor Data				
Volts	208 / 230	208 / 230	208 / 230	208 / 230
Rated Load Amps	11.4	19	24	26
Lock Rotor Amps	52	82	96	118
Indoor Blower				
Wheel Diameter	10 x 10	10 x 10	11 x 10	11 x 10
Motor Type	Variable Speed	Variable Speed	Variable Speed	Variable Speed
Motor HP	1/2	1/2	1	1
Motor Amps	4.3	4.3	9.1	9.1
Outdoor Fan				
Motor HP	1/4	1/4	1/4	1/4
Motor Amps	0.91	1.46	1.46	1.46
Fan Diameter/CFM	20" / 3500	24" / 4000	24" / 4000	24" / 4000
Refrigerant Charge (oz)	131.2	128	240	272

AIRFLOW DATA

Model Number	Heating Input (Btuh)	Heating Output (Btuh)	Heat Switch Setting	CFM	Heating Rise Range (°F)	Blower Size	Motor HP
X24K072X	72,000	57,600	1,1 0,1	1200 1000	35-65	10 X 10	1/2
	46,800	37,440	1,1 0,1	990 750			
X36K100X	100,000	80,000	0,1 1,1	1300 1400	40-70	10 X 10	1/2
	65,000	52,000	0,1 1,1	875 900			
X48K120X	120,000	96,000	1,1 0,1	2005 1805	40-70	11 X 10	1
	78,000	62,400	1,1 0,1	1200 1100			
X60K120X	120,000	96,000	1,1 0,1	2005 1805	40-70	11 X 10	1
	78,000	62,400	1,1 0,1	1200 1100			

Cooling Airflow Settings

SWITCH NUMBER				RECOMMENDED A/C AIRFLOW RATE (CFM)	
1	2	3	4	2 TON	
0	0	0	1	2 T O N	720
0	0	0	0		800
1	0	0	1		810
0	0	1	0		880
1	0	0	0		900
0	1	0	1		900
1	0	1	0		990
0	1	0	0		1000
1	1	0	1		1080
0	1	1	0		1100
1	1	0	0		1200
1	1	1	0		1320

SWITCH NUMBER				RECOMMENDED A/C AIRFLOW RATE (CFM)	
1	2	3	4	3 TON	
0	0	0	1		810
0	0	0	0		900
1	0	0	1		990
0	0	1	0		990
0	1	0	1	3 T O N	1080
1	0	0	0		1100
0	1	0	0		1200
1	0	1	0		1210
1	1	0	1		1215
0	1	1	0		1320
1	1	0	0		1350
1	1	1	0		1485

SWITCH NUMBER				RECOMMENDED A/C AIRFLOW RATE (CFM)	
1	2	3	4	4-5 TON	
0	0	0	1		1440
1	0	0	1		1530
0	0	0	0		1600
0	1	0	1		1620
1	0	0	0	4 & 5 T O N	1700
1	1	0	1		1710
0	0	1	0		1760
0	1	0	0		1800
1	0	1	0		1870
1	1	0	0		1900
0	1	1	0		1980
1	1	1	0		2090

NOTE: 0 = OFF 1 = ON

Heating Airflow Settings

Nominal Airflow Rates (CFM) and Temperature Rises (°F)														
Switches			072X				100X				120X			
			Low Fire Input		High Fire Input		Low Fire Input		High Fire Input		Low Fire Input		High Fire Input	
5	6	7	46,800		72,000		65,000		100,000		78,000		120,000	
0	0	#	N/A	N/A	N/A	N/A	850	57	1100	67	900	64	1500	59
1	0	#	N/A	N/A	N/A	N/A	850	57	1200	62	1100	53	1585	56
0	1	#	750	46	1000	53	875	55	1300	57	1100	53	1805	49
1	1	#	990	35	1200	44	900	53	1400	53	1200	48	2005	44

NOTE: 0 = OFF 1 = ON

Switch is not used — Can be 0 or 1

1. Recommended temperature rises are highlighted in **bold**.

2. Temperature rises in the table are approximate. Actual temperature rises may vary.

R6GF ACCESSORIES

Description	Part Number
Roof Curb (8")	547830
Roof Curb (14")	547831
Roof Curb (18")	547850
Roof Curb (24")	547851
Cap, Duct Adapter, 12" Round	913811A
Cap, Duct Adapter, 14" Round	913812A
Filter Kit 24 - 36	547888
Filter Kit 48 - 60	547889
Filter Kit, All Downflow Applications (not required with economizer)	547885
Low Ambient Kit	918837
U.S. LP Gas Conversion Kit (0 ft to 10,000 ft above sea level)	904404
Canadian LP Gas Conversion Kit (0 to 4,500 ft above sea level)	904405
Universal Hard Start Kit	912933
Economizer, downflow w/filter (does not require filter kit) modulating	558870
Economizer, horizontal modulating	547841
Power Exhaust, horizontal economizer (special order)	547843
Power Exhaust, downflow economizer (special order)	547842
Skirt Trim Kit 24,36,48	919729
Skirt Trim Kit 60	920936
Extreme High Wind Kit - Roof Curb Mount	903696
Extreme High Wind Kit - Ground Mount	903695
Freezestat Kit	917108
Supply/return transition, 16"	547834
Supply/return transition, 18"	547835
Concentric diffuser, flush, 16"	547836
Concentric diffuser, step down 16"	547838
Concentric diffuser, step down 18"	547839
Manual Fresh Air Damper	547832
Motorized Fresh Air Damper	547840
Hood Type Hail Guard, coil Dim. 34" x 76" X24, X36	547846
Hood Type Hail Guard, Coil Dim. 38" x 76" X48, X60	547846
Duct Smoke Detector Photo Elec	558863
Multi Signal Control	547893
Sampling Tube DST3, 2-4ft.	558864
Sampling Tube DST5, 4-8ft.	558865

LARGE PACKAGE GAS/ELECTRIC AC

R6GF-024K

O.D.T			65°F			75°F			85°F			95°F			105°F			115°F		
CFM	E.D.B.	E.W.B.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.
650	80	62	25.0	21.6	1.25	24.0	21.1	1.44	22.9	20.6	1.65	21.8	20.1	1.89	20.7	19.5	2.17	19.5	18.9	2.50
	80	67	27.2	18.2	1.28	26.0	17.8	1.46	24.8	17.3	1.67	23.6	16.8	1.91	22.3	16.2	2.19	21.0	15.7	2.52
	80	72	29.7	14.9	1.31	28.5	14.4	1.49	27.2	14.0	1.70	25.9	13.5	1.93	24.5	13.0	2.21	23.0	12.4	2.55
	75	63	25.3	17.7	1.25	24.2	17.2	1.44	23.1	16.7	1.65	22.0	16.1	1.89	20.8	15.6	2.17	19.5	15.0	2.50
8200	80	62	26.1	24.3	1.26	25.0	23.8	1.45	24.0	23.3	1.66	23.0	22.4	1.90	21.9	21.3	2.19	20.8	20.2	2.52
	80	67	28.2	20.2	1.29	27.0	19.7	1.47	25.7	19.2	1.68	24.5	18.8	1.92	23.1	18.2	2.20	21.7	17.6	2.53
	80	72	30.8	16.2	1.32	29.5	15.7	1.50	28.1	15.2	1.71	26.7	14.7	1.94	25.2	14.2	2.22	23.5	13.6	2.55
	75	63	26.2	19.4	1.26	25.1	18.9	1.45	24.0	18.4	1.66	22.8	18.0	1.90	21.5	17.4	2.18	20.2	16.8	2.51
950	80	62	27.2	26.5	1.28	26.2	25.6	1.46	25.2	24.5	1.67	24.1	23.5	1.91	23.0	22.4	2.20	21.7	21.2	2.53
	80	67	29.0	22.2	1.30	27.8	21.7	1.48	26.5	21.1	1.69	25.1	20.6	1.92	23.7	20.0	2.20	22.2	19.4	2.54
	80	72	31.5	17.4	1.33	30.1	16.9	1.51	28.5	16.4	1.71	27.1	15.8	1.95	25.5	15.2	2.23	23.9	14.6	2.56
	75	63	25.9	20.8	1.46	25.9	20.8	1.46	24.7	20.3	1.67	23.4	19.7	1.90	22.1	19.1	2.19	20.7	18.5	2.52

R6GF-036K

O.D.T			65°F			75°F			85°F			95°F			105°F			115°F		
CFM	E.D.B.	E.W.B.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.
950	80	62	36.5	28.3	2.16	35.2	28.1	2.39	33.7	28.3	2.65	32.0	27.7	2.94	30.23	29.19	3.26	28.26	27.29	3.63
	80	67	39.6	23.3	2.18	38.1	23.2	2.41	36.5	23.4	2.67	34.7	22.9	2.96	32.73	22.51	3.28	30.54	21.02	3.66
	80	72	43.3	17.9	2.21	41.7	17.9	2.44	39.9	18.2	2.70	37.9	17.8	2.99	35.74	17.54	3.31	33.31	17.90	3.69
	75	63	37.0	22.8	2.16	35.6	22.6	2.40	34.1	22.8	2.65	32.4	22.3	2.94	30.53	20.35	3.27	28.47	21.93	3.64
1100	80	62	37.7	30.8	2.16	36.3	31.5	2.40	34.7	30.8	2.66	33.0	30.4	2.94	31.21	30.02	3.27	29.37	29.12	3.64
	80	67	40.7	25.1	2.19	39.2	25.9	2.42	37.5	25.2	2.68	35.6	25.0	2.97	33.52	24.93	3.29	31.24	24.83	3.66
	80	72	44.3	19.1	2.22	42.7	20.0	2.44	40.8	19.5	2.71	38.7	19.3	3.00	36.37	19.39	3.32	33.83	19.40	3.69
	75	63	38.1	24.5	2.17	36.6	25.2	2.40	35.0	24.5	2.66	33.2	24.2	2.95	31.29	24.09	3.27	29.14	23.91	3.64
1250	80	62	38.7	33.6	2.17	37.2	33.8	2.41	35.7	32.9	2.67	34.0	32.3	2.95	32.32	31.23	3.28	30.42	30.29	3.65
	80	67	41.6	27.3	2.19	40.0	27.7	2.43	38.2	27.1	2.69	36.3	27.0	2.97	34.15	26.74	3.30	31.80	26.76	3.67
	80	72	45.1	20.8	2.22	43.4	21.2	2.45	41.4	20.7	2.72	39.2	20.7	3.01	36.88	20.53	3.33	34.36	20.68	3.70
	75	63	38.9	26.6	2.17	37.4	26.9	2.41	35.7	26.2	2.67	33.9	26.1	2.95	31.89	25.77	3.28	29.68	25.71	3.65

R6GF-X48K

O.D.T			65°F			75°F			85°F			95°F			105°F			115°F		
CFM	E.D.B.	E.W.B.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.
1350	80	62	48.9	39.6	3.06	47.1	39.4	3.32	45.1	39.7	3.62	42.9	39.0	3.93	40.50	39.82	4.29	38.15	37.50	4.70
	80	67	53.4	32.2	3.09	51.5	32.1	3.36	49.3	32.5	3.65	46.9	31.9	3.97	44.13	31.43	4.32	41.09	29.46	4.73
	80	72	58.3	24.6	3.15	56.3	24.6	3.41	53.9	25.1	3.70	51.3	24.6	4.02	48.31	24.22	4.37	45.01	24.70	4.77
	75	63	49.6	31.4	3.07	47.8	31.2	3.33	45.7	31.5	3.63	43.4	30.9	3.94	40.88	28.22	4.30	38.02	30.50	4.70
1500	80	62	50.1	42.5	3.07	48.3	43.3	3.33	46.3	42.5	3.62	44.1	41.7	3.94	41.95	40.54	4.30	39.51	39.18	4.72
	80	67	54.5	34.3	3.11	52.5	35.4	3.37	50.3	34.6	3.66	47.7	34.3	3.98	44.93	34.26	4.33	41.80	34.17	4.74
	80	72	59.4	25.9	3.16	57.3	27.2	3.42	54.9	26.4	3.71	52.1	26.2	4.03	49.10	26.34	4.38	45.71	26.36	4.78
	75	63	50.7	33.3	3.08	48.8	34.3	3.34	46.7	33.5	3.63	44.3	33.1	3.95	41.64	32.98	4.30	38.70	32.78	4.71
1650	80	62	51.3	45.7	3.08	49.5	45.9	3.34	47.6	44.4	3.64	45.5	43.2	3.96	43.27	41.80	4.32	40.71	40.54	4.73
	80	67	55.4	36.9	3.12	53.4	37.4	3.38	51.1	36.6	3.67	48.5	36.6	3.99	45.61	36.32	4.34	42.41	36.41	4.74
	80	72	60.3	27.7	3.17	58.2	28.4	3.43	55.7	27.6	3.72	52.9	27.7	4.03	49.76	27.58	4.39	46.29	27.84	4.79
	75	63	51.6	35.8	3.09	49.6	36.2	3.35	47.4	35.4	3.64	45.0	35.2	3.95	42.29	34.91	4.31	39.29	34.87	4.72

LARGE PACKAGE GAS/ELECTRIC AC (CONTINUED)

R6GF-X60K

ODT			65°F			75°F			85°F			95°F			105°F			115°F		
CFM	EDB	EWB	TC	SC	KW	TC	SC	KW	TC	SC	KW	TC	SC	KW	TC	SC	KW	TC	SC	KW
1450	80	62	58.70	49.34	3.53	56.43	48.22	3.81	53.83	46.95	4.12	51.34	45.50	4.50	48.72	44.49	4.93	45.99	43.12	5.41
	80	67	63.88	41.92	3.62	61.30	40.80	3.88	58.56	39.66	4.20	55.61	38.44	4.57	52.55	37.19	5.00	49.29	35.81	5.47
	80	72	69.73	34.45	3.71	66.86	33.35	3.98	63.77	32.20	4.30	60.88	31.09	4.65	57.44	29.82	5.08	54.10	28.55	5.55
	75	63	59.30	40.57	3.55	56.96	39.47	3.81	54.48	38.33	4.14	51.78	37.12	4.50	48.97	35.84	4.93	45.97	34.44	5.41
1600	80	62	60.08	52.14	3.55	57.71	50.99	3.84	55.12	49.70	4.13	52.42	48.43	4.52	49.65	47.07	4.94	46.70	45.57	5.42
	80	67	65.11	44.01	3.63	62.34	42.81	3.90	59.52	41.68	4.22	56.67	40.47	4.57	53.74	39.41	4.98	50.78	38.25	5.43
	80	72	71.06	35.78	3.74	68.07	34.66	4.00	64.99	33.52	4.31	61.76	32.34	4.67	58.35	31.10	5.10	54.84	29.78	5.57
	75	63	60.70	42.59	3.56	58.82	41.73	3.84	55.48	40.21	4.15	52.78	38.96	4.52	49.95	37.84	4.95	46.65	36.36	5.42
1750	80	62	61.21	54.83	3.57	58.75	53.63	3.85	56.12	52.36	4.16	53.47	51.04	4.53	50.77	49.40	4.96	47.97	46.17	5.44
	80	67	66.10	46.01	3.65	63.21	44.66	4.41	60.48	43.62	4.23	57.61	42.60	4.59	54.28	41.20	5.02	51.25	40.17	5.47
	80	72	71.93	36.92	3.86	69.02	35.87	4.06	65.93	34.77	4.34	62.66	33.61	4.68	59.21	32.38	5.09	55.58	31.05	5.57
	75	63	61.67	44.41	3.58	59.15	43.26	3.85	56.60	42.09	4.16	53.82	41.00	4.52	50.79	39.64	4.97	47.65	38.27	5.45



GENERAL TERMS OF LIMITED WARRANTY

NORDYNE will furnish a replacement for any part of this product which fails in normal use and service within the first ten years of installation, in accordance with the terms of the warranty.

For complete details of the Limited Warranty, including applicable terms and conditions, see your local installer or contact the NORDYNE warranty department for a copy.

NORDYNE
COMPLETE COMFORT. GENUINE VALUE.

8000 Phoenix Parkway | O'Fallon, MO 63368-3827

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417D-0710 (Replaces 417D-0210)