

R6GD Series

13 SEER, Three Phase, Packaged Gas/ Electric Units with R-410A 3 - 5 Ton Units

The R6GD Series 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. The unit is truly designed with the contractor and the end user in mind.



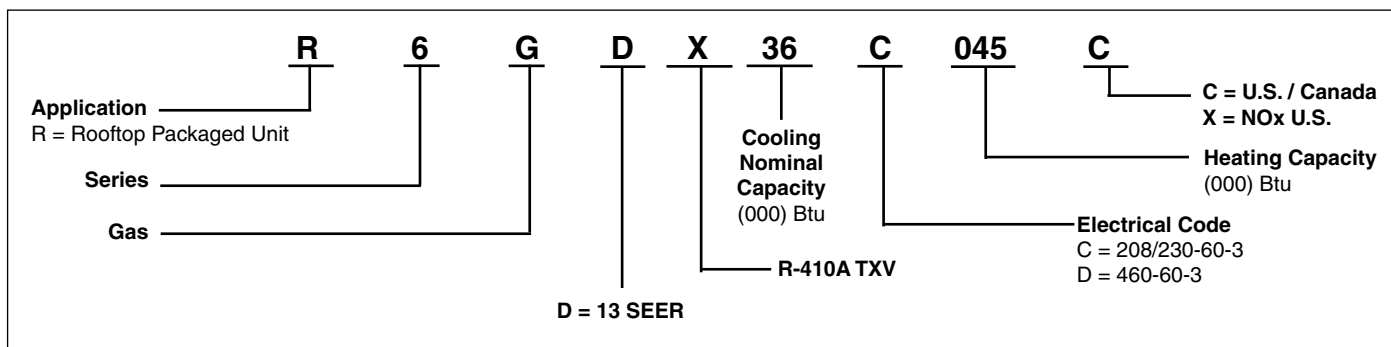
WARRANTY

- One Year Commercial Parts Warranty
- 5 Year Limited Compressor Warranty
- 10 Year Limited Heat Exchanger Warranty

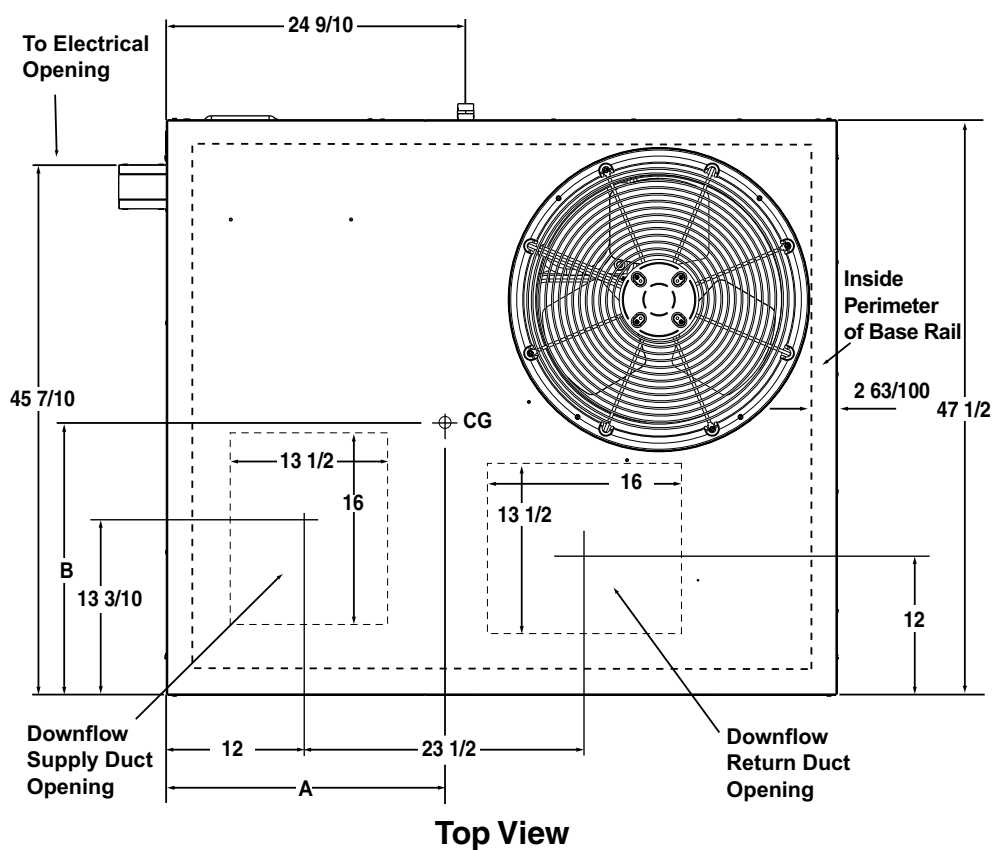
FEATURES and BENEFITS

- **Compact Footprint/Low Profile** Easy to handle and transport.
- **Heavy-Gauge, Full Perimeter Base Rails** Facilitates forklift handling and curb mounting.
- **Convertible Air Delivery** Horizontal or downflow to accommodate rooftop or horizontal application.
- **Galvanized Steel with Polyurethane Finish** Provides a minimum of 950 hour salt spray protection to resist corrosion.
- **Plastic Mesh Hail Guard** Will never rust and protects the coil from being damaged by balls, lawnmowers, hail etc.
- **R-410A Refrigerant** Earth Friendly non-ozone depleting refrigerant.
- **Liquid Line Filter/Drier** Insures clean refrigeration system.
- **Externally Accessible Service Ports** Quick access to refrigerant system without disrupting operation.
- **Access to Controls and Major Components** Easy in and out service.
- **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 component compartment dry.
- **Factory Installed Filter Rack** 1" or 2" Capable.
- **TXV** Externally equalized. Provides precise refrigerant control under varying load conditions.
- **High Pressure Switch** Protects against abnormally High system Pressures.
- **Corrosion-Resistant Drain Pan** Quickly drains away evaporator condensate.
- **Proven, Industry Standard Components** Easier service and availability.
- **Accessories** Roof curbs, economizers, fresh air dampers and more.
- **Quiet Operation** Low vibration. 20" fan blade combined with custom condenser fan orifice.

MODEL IDENTIFICATION CODE



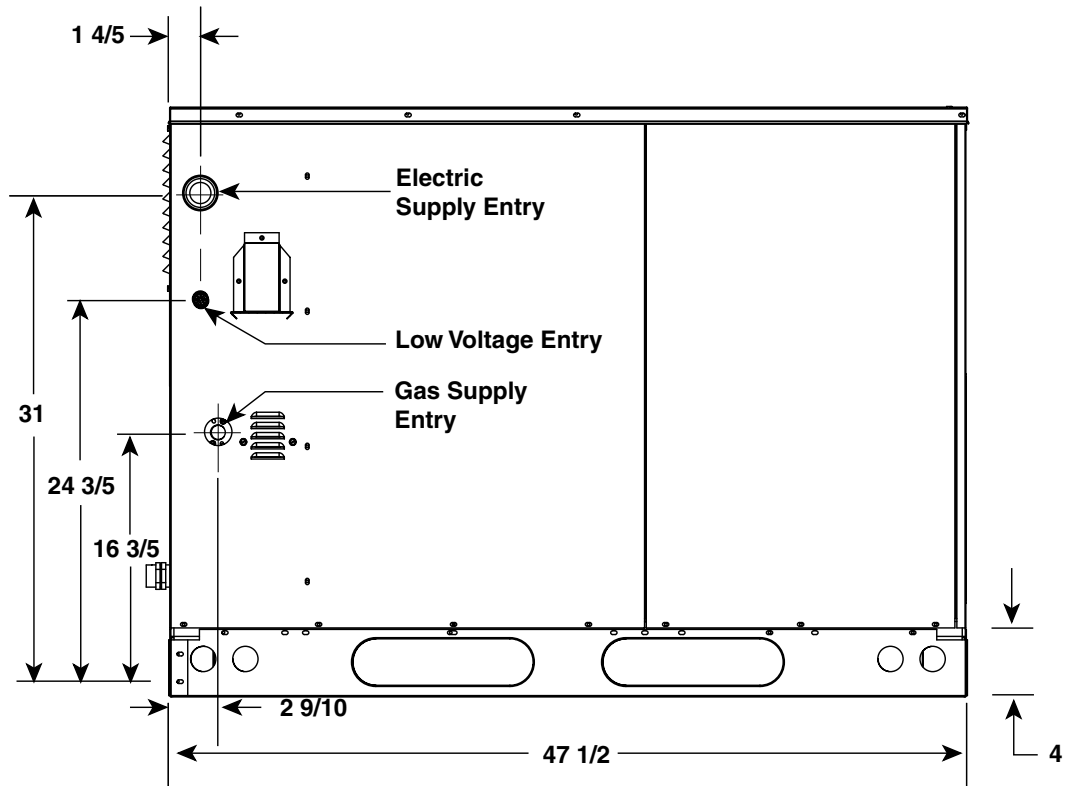
DIMENSIONS



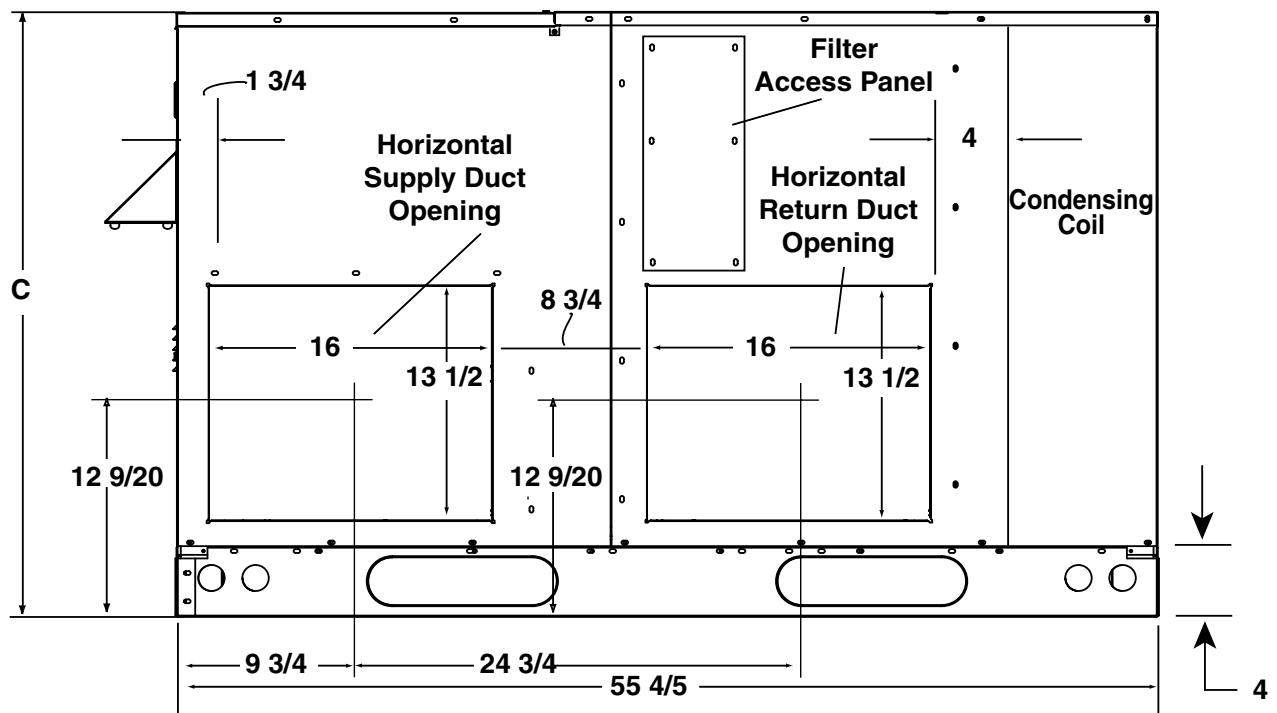
Model Number R6GD-	Unit Weight	Center of Gravity		Height (in inches)	
		A	B	C	
				with base rails	without base rails
X36(*)072C	360	25.5	27.0	39.0	35.3
X36(*)096C	365	25.0	27.0	39.0	35.3
X48(*)096C	460	26.0	27.0	43.0	39.3
X48(*)120C	470	25.5	27.0	43.0	39.3
X60(*)096C	480	26.0	27.0	43.0	39.3
X60(*)120C	490	25.5	27.0	43.0	39.3

* - Can be a C or D

DIMENSIONS Continued



Side View



Back View

SPECIFICATIONS AND ELECTRICAL DATA

THREE PHASE - 208/230V

Model R6GD-	X36C072C	X36C096C	X48C096C	X48C120C	X60C096C	X60C120C
Performance						
Heating Input BTUH	72,000	96,000	96,000	120,000	96,000	120,000
Heating Output BTUH	56,000	75,000	75,000	94,000	75,000	94,000
Capacity-Cooling BTUH	36,000	36,000	47,800	47,800	56,500	56,500
AFUE	78	78	78	78	78	78
Efficiency - SEER	13.50	13.50	13.00	13.00	13.00	13.00
Efficiency - EER	11.80	11.80	11.00	11.00	11.00	11.00
Electrical Rating - 60 Hz						
Phase	3	3	3	3	3	3
Operating Voltage Range	187 - 253	187 - 253	187 - 253	187 - 253	187 - 253	187 - 253
Minimum Circuit Ampacity	21.2	21.2	27.7	27.7	31.9	31.9
Max. Over-current Protection	30	30	40	40	45	45
Compressor Data						
Volts	208 / 230	208 / 230	208 / 230	208 / 230	208 / 230	208 / 230
Rated Load Amps	11.6	11.6	15.3	15.3	17.4	17.4
Lock Rotor Amps	73	73	83	83	110	110
Indoor Blower						
Wheel Blower	10x10		10x10		11x10	
Type	Fixed Torque	Fixed Torque	Fixed Torque	Fixed Torque	Fixed Torque	Fixed Torque
Motor - HP	1/2	1/2	3/4	3/4	1	1
Motor - Amps	4.1	4.1	6.0	6.0	7.6	7.6
Outdoor Fan						
Motor - HP / RPM	1/4 - 1100	1/4 - 1100	1/4 - 1100	1/4 - 1100	1/4 - 1100	1/4 - 1100
Motor - Amps	1.2	1.2	1.2	1.2	1.2	1.2
Fan Diameter / CFM	20 / 3800	20 / 3800	20 / 3800	20 / 3800	20 / 3800	20 / 3800
Refrigerant Charge - oz. R-410A	112	112	224	224	184	184
Filters (Field Installed)						
Style	Disposable		Disposable			
Size (Qty)	16 x 25 x 1 (2)		18 x 25 x 1 (2)			
	Field convertible to two inches					

SPECIFICATIONS AND ELECTRICAL DATA

THREE PHASE - 460V

Model R6GD-	X36D072C	X36D096C	X48D096C	X48D120C	X60D096C	X60D120C
Performance						
Heating Input BTUH	72,000	96,000	96,000	120,000	96,000	120,000
Heating Output BTUH	56,000	75,000	75,000	94,000	75,000	94,000
Capacity-Cooling BTUH	36,000	36,000	47,800	47,800	56,500	56,500
AFUE	78	78	78	78	78	78
Efficiency - SEER	13.50	13.50	13.00	13.00	13.00	13.00
Efficiency - EER	11.80	11.80	11.00	11.00	11.00	11.00
Electrical Rating - 60 Hz						
Phase	3	3	3	3	3	3
Operating Voltage Range	414 - 506	414 - 506	414 - 506	414 - 506	414 - 506	414 - 506
Minimum Circuit Ampacity	12.1	12.1	13.8	13.8	16.7	16.7
Max. Over-current Protection	15	15	20	20	25	25
Compressor Data						
Volts	460	460	460	460	460	460
Rated Load Amps	6.4	6.4	6.9	6.9	8.6	8.6
Lock Rotor Amps	38	38	41	41	52	52
Indoor Blower						
Wheel Blower	10x10		10x10		11x10	
Type	Fixed Torque	Fixed Torque	Fixed Torque	Fixed Torque	Fixed Torque	Fixed Torque
Motor - HP	1/2	1/2	3/4	3/4	1	1
Motor - Amps	2.1	2.1	3.2	3.2	4.0	4.0
Outdoor Fan						
Motor - HP / RPM	1/4 - 1100	1/4 - 1100	1/4 - 1100	1/4 - 1100	1/4 - 1100	1/4 - 1100
Motor - Amps	0.6	0.6	0.6	0.6	0.6	0.6
Fan Diameter / CFM	20 / 3800	20 / 3800	20 / 3800	20 / 3800	20 / 3800	20 / 3800
Refrigerant Charge - oz. R-410A	112	112	224	224	184	184
Filters (Field Installed)						
Style	Disposable		Disposable			
Size (Qty)	16 x 25 x 1 (2)		18 x 25 x 1 (2)			
	Field convertible to two inches					

AIRFLOW DATA

Model Number REGD-	Heating Input (Btu/h)	Heating Output (Btu/h)	Heating Rise Range (F)	Cooling Output (Btu/h)	Blower Size	Motor HP	Motor Tap	External Static Pressure Drop - inches water column															
								0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8								
								(cfm) (°F) Rise	(cfm) (°F) Rise	(cfm) (°F) Rise	(cfm) (°F) Rise	(cfm) (°F) Rise	(cfm) (°F) Rise	(cfm) (°F) Rise	(cfm) (°F) Rise								
X36*072(X)							T1	950 55	880 59	810 64	755 69	705 --	655 --	600 --	570 --								
							**T2	1110 47	1065 49	1020 51	965 54	910 57	865 60	825 63	790 66								
	72,000	56,000	40-70	36,800	10 X 10	1/2	T3	1220 43	1180 44	1135 46	1085 48	1030 50	990 53	945 55	915 57								
							*T4	1260 41	1215 43	1387 37	1125 46	1075 48	1030 50	990 53	960 54								
							T5	1345 --	1300 40	1250 42	1210 43	1170 44	1120 46	1070 49	1030 50								
X36*096(X)							T1	950 --	880 --	810 --	755 --	705 --	655 --	600 --	570 --								
							**T2	1110 62	1065 65	1020 68	965 --	910 --	865 --	825 --	790 --								
	96,000	75,000	40-70	36,800	10 X 10	1/2	T3	1220 57	1180 59	1135 61	1085 64	1030 67	990 70	945 --	915 --								
							*T4	1260 55	1215 57	1175 59	1125 62	1075 64	1030 67	990 70	960 --								
							T5	1345 52	1300 53	1250 55	1210 57	1170 59	1120 62	1070 65	1030 67								
X48*096(X)							T1	1185 59	1110 62	1035 67	980 71	925 75	875 --	820 --	785 --								
							T2	1410 49	1330 52	1250 55	1195 58	1140 61	1085 64	1030 67	975 71								
	96,000	75,000	45-75	47,800	10 X 10	3/4	**T3	1525 45	1450 48	1370 51	1320 53	1270 55	1210 57	1150 60	1100 63								
							T4	1650 --	1585 --	1520 46	1465 47	1405 49	1340 52	1280 54	1235 56								
							*T5	1775 --	1715 --	1650 --	1600 --	1540 45	1460 47	1375 50	1330 52								
X48*120(X)							T1	1185 73	1110 --	1035 --	980 --	925 --	875 --	820 --	785 --								
							T2	1410 61	1330 65	1250 69	1195 73	1140 --	1085 --	1030 --	975 --								
	120,000	94,000	45-75	47,800	10 X 10	3/4	**T3	1525 57	1450 60	1370 63	1320 66	1270 68	1210 72	1150 75	1100 --								
							T4	1650 53	1585 55	1520 57	1465 59	1405 62	1340 65	1280 68	1235 70								
							*T5	1775 49	1715 51	1650 53	1600 54	1540 56	1460 59	1375 63	1330 65								
X60*096(X)							T1	1199 58	1101 63	1027 68	940 74	867 --	809 --	760 --	701 --								
							**T2	1488 47	1433 48	1363 51	1310 53	1257 55	1184 59	1108 63	1050 66								
	96,000	75,000	45-75	58,000	11 X 10	1	*T3	1596 --	1540 45	1497 46	1455 48	1413 49	1379 50	1419 49	1348 51								
							T4	1787 --	1722 --	1687 --	1647 --	1611 --	1573 --	1533 45	1499 46								
							T5	1993 --	1953 --	1891 --	1825 --	1763 --	1714 --	1664 --	1601 --								
X60*120(X)							T1	1199 72	1101 --	1027 --	940 --	867 --	809 --	760 --	701 --								
							**T2	1488 58	1433 60	1363 64	1310 66	1257 69	1184 73	1108 --	1050 --								
	120,000	94,000	45-75	58,000	11 X 10	1	*T3	1596 54	1540 56	1497 58	1455 60	1413 61	1379 63	1419 61	1348 64								
							T4	1787 48	1722 50	1687 51	1647 53	1611 54	1573 55	1533 57	1499 58								
							T5	1993 --	1953 --	1891 --	1825 --	1763 --	1714 --	1664 --	1601 --								

* Denotes factory set cooling speed

** Denotes factory set heating speed

X - Can be C or X

R6GD ACCESSORIES

Description	Part Number
Roof Curb (8")	547830
Roof Curb (14")	547831
Roof Curb (18")	547850
Roof Curb (24")	547851
Duct Adapter, 14" Round (2 each)	913812A
Concentric diffuser, flush, 16"	547836
Concentric diffuser, flush, 18"	547837
Supply/return transition, 16"	547834
Supply/return transition, 18"	547835
Concentric diffuser, step down 16"	547838
Concentric diffuser, step down 18"	547839
Differential enthalpy sensor kit	920233
Control, CO2 sensor, wall mount	547848
Economizer, downflow w/filter modulating	558870
Economizer, horizontal modulating	547841
Power Exhaust for use with downflow economizer (208/230 3 Phase)*	555578
Power Exhaust, for use with horizontal economizer (208/230 3 Phase)*	555580
Power Exhaust for use with downflow economizer (460V 3 Phase)*	555579
Power Exhaust, for use with horizontal economizer (460V 3 Phase)*	555581
Power Exhaust, for use with downflow economizer (575V 3 Phase)*	555651
Manual Fresh Air Damper	547832
Motorized Fresh Air Damper	547840
Hood Type Hail Guard, Coil Dim. 34" X 76" (3 ton)	547846
Hood Type Hail Guard, Coil Dim. 38" X 76" (4 & 5 ton)	547847
Low Ambient Kit	918837
Low Pressure Switch Kit	913551
Freezestat	917108
LP Gas Conversion Kit, Canadian (0 to 4,500 ft above sea level)	904405A
LP Gas Conversion Kit, U.S. (0 ft to 10,000 ft above sea level)	904404A
Outdoor Thermostat Kit	913852
Smoke Detector, Duct Mount, Photo Electric Type	558863
Smoke Detector, Multi Signal Control	547893
Smoke Detector, Sampling Tube 2-4 ft	558864
Smoke Detector, Sampling Tube 4-8 ft	558865
Extreme Wind Mounting Kit (roof curb mount)	903696

* Special Order

R6GD EXPANDED RATINGS

R6GD-X36

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.
1300	80	62	39.3	34.9	2.25	37.8	34.4	2.46	36.4	34.0	2.69	34.9	32.7	2.95	33.3	32.7	3.25	31.5	31.0	3.58
	80	67	42.1	28.1	2.27	40.3	27.9	2.49	38.5	28.2	2.71	36.6	27.8	2.97	34.6	27.4	3.26	32.5	27.0	3.59
	80	72	45.7	20.8	2.31	43.7	20.7	2.52	41.8	21.1	2.76	39.7	20.8	3.01	37.5	20.5	3.30	35.2	21.0	3.63
	75	63	39.3	27.2	2.25	37.6	26.9	2.46	35.9	27.1	2.68	34.1	26.7	2.94	32.2	24.7	3.23	30.2	26.5	3.57
1400	80	62	40.0	36.0	2.28	38.6	36.0	2.50	37.1	34.6	2.72	35.5	33.6	2.99	33.9	32.7	3.28	32.1	31.8	3.62
	80	67	42.5	29.3	2.30	40.7	30.1	2.52	38.9	29.4	2.74	36.9	29.2	3.00	34.9	29.2	3.29	32.8	29.3	3.63
	80	72	46.0	21.6	2.34	44.1	22.5	2.55	42.0	21.9	2.79	39.9	21.8	3.04	37.7	21.9	3.33	35.4	22.2	3.66
	75	63	39.6	28.3	2.28	38.0	28.9	2.49	36.2	28.3	2.71	34.4	28.0	2.98	32.5	27.9	3.26	30.5	27.9	3.60
1500	80	62	40.8	37.1	2.31	39.3	36.6	2.53	37.8	35.2	2.76	36.1	34.3	3.02	34.4	33.2	3.31	32.6	32.4	3.65
	80	67	42.8	31.0	2.33	41.0	31.3	2.55	39.2	30.6	2.77	37.2	30.6	3.04	35.1	30.4	3.32	33.0	30.6	3.66
	80	72	46.3	22.8	2.37	44.3	23.2	2.58	42.3	22.6	2.82	40.1	22.7	3.07	37.9	22.8	3.37	35.6	23.1	3.69
	75	63	40.0	29.8	2.30	38.3	30.0	2.52	36.5	29.4	2.75	34.7	29.3	3.01	32.7	29.0	3.29	30.7	29.1	3.63

R6GD EXPANDED RATINGS (Continued)

R6GD-X48

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.
1650	80	62	51.3	43.9	3.13	49.1	43.5	3.51	47.0	43.5	3.88	45.0	42.2	4.29	43.0	42.2	4.73	40.9	40.2	5.21
	80	67	55.3	35.6	3.13	52.6	35.2	3.53	50.1	35.5	3.91	47.7	34.9	4.32	45.1	34.4	4.76	42.6	33.5	5.25
	80	72	60.1	26.7	3.12	57.1	26.4	3.54	54.3	26.9	3.95	51.6	26.4	4.36	48.8	26.0	4.81	46.0	26.7	5.30
	75	63	51.4	34.4	3.13	49.0	34.0	3.51	46.7	34.2	3.88	44.4	33.5	4.28	42.1	31.1	4.72	39.6	33.3	5.19
1800	80	62	52.2	46.1	3.19	50.0	46.4	3.57	48.0	44.7	3.95	45.9	43.4	4.36	43.8	42.3	4.80	41.6	41.3	5.29
	80	67	55.8	37.2	3.19	53.2	38.1	3.58	50.6	37.1	3.98	48.1	36.8	4.39	45.5	36.8	4.83	42.9	36.8	5.32
	80	72	60.5	27.7	3.18	57.6	28.8	3.60	54.8	27.9	4.01	52.0	27.6	4.43	49.2	27.8	4.88	46.3	28.0	5.37
	75	63	52.0	35.9	3.19	49.6	36.6	3.57	47.2	35.7	3.95	44.8	35.3	4.35	42.4	35.2	4.78	40.0	35.1	5.26
1950	80	62	53.1	48.2	3.25	51.0	47.5	3.64	48.9	45.6	4.02	46.7	44.4	4.43	44.7	43.1	4.88	42.4	42.2	5.37
	80	67	56.3	39.4	3.25	53.6	39.7	3.64	51.0	38.7	4.04	48.5	38.6	4.45	45.9	38.4	4.89	43.2	38.6	5.38
	80	72	61.0	29.3	3.24	58.0	29.8	3.66	55.2	28.9	4.08	52.3	28.9	4.50	49.5	28.8	4.94	46.5	29.2	5.44
	75	63	52.5	37.9	3.25	50.0	38.1	3.63	47.6	37.2	4.01	45.2	37.0	4.41	42.7	36.6	4.85	40.3	36.7	5.33

R6GD-X60

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.
1500	80	62	58.9	45.0	3.83	56.7	44.6	4.20	54.4	44.9	4.61	52.0	44.1	5.09	49.6	46.3	5.61	47.0	43.9	6.20
	80	67	63.7	36.8	3.91	61.2	36.6	4.28	58.6	37.0	4.70	56.1	36.4	5.17	53.3	35.9	5.69	50.5	33.9	6.28
	80	72	69.9	28.6	4.02	67.2	28.5	4.39	64.4	29.1	4.82	61.6	28.5	5.29	58.5	28.2	5.82	55.4	29.0	6.39
	75	63	59.3	35.9	3.84	57.0	35.6	4.21	54.7	35.9	4.62	52.3	35.2	5.09	49.7	32.8	5.61	47.0	35.1	6.20
1650	80	62	60.2	47.5	3.85	57.9	48.5	4.22	55.6	47.4	4.64	53.1	46.9	5.11	50.6	46.9	5.63	48.0	46.7	6.22
	80	67	64.8	38.7	3.93	62.3	39.8	4.30	59.8	38.8	4.72	57.1	38.5	5.19	54.3	38.6	5.71	51.4	39.0	6.30
	80	72	71.1	29.7	4.04	68.4	31.2	4.42	65.5	30.3	4.84	62.5	30.1	5.31	59.4	30.4	5.84	56.1	30.7	6.41
	75	63	60.5	37.6	3.86	58.2	38.6	4.23	55.8	37.6	4.64	53.3	37.2	5.11	50.7	37.2	5.63	47.9	37.4	6.22
1800	80	62	61.3	50.6	3.87	59.0	50.9	4.24	56.6	49.8	4.66	54.1	49.6	5.13	51.6	49.2	5.65	49.2	48.9	6.25
	80	67	65.9	41.1	3.95	63.4	41.6	4.32	60.7	40.6	4.74	58.0	40.9	5.21	55.1	40.7	5.73	52.1	41.0	6.31
	80	72	72.2	31.6	4.08	69.3	32.4	4.44	66.3	31.4	4.86	63.2	31.6	5.32	60.0	31.6	5.85	56.5	32.1	6.42
	75	63	61.6	39.9	3.88	59.2	40.3	4.24	56.7	39.3	4.66	54.2	39.4	5.13	51.5	39.1	5.65	48.6	39.3	6.23

We Encourage
Professionalism

Thorough Technician
Certification by NATE



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 year 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
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717C-0614 (Replaces 717C-0812)