

TECHNICAL SPECIFICATIONS

GP7RD Series

Single Packaged Air Conditioner, Single Phase

GP7RD 13 SEER, R-410A

2 thru 4 Ton Units

Cooling: 24,000 to 47,000 Btuh

The GP7 Series single packaged air conditioners are high efficiency self contained cooling and heating units that can be installed on a slab. Units are ETL and ETLc listed.



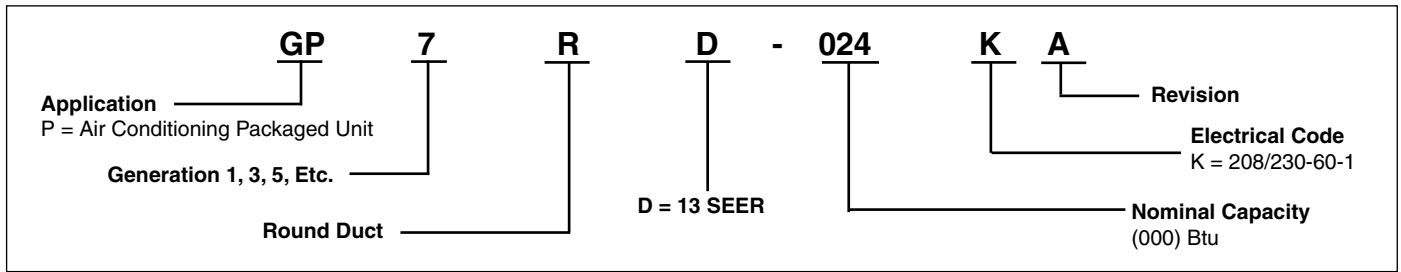
WARRANTY

- This product offers a 10-year all-parts warranty.
- This product offers a 1 Year Quality Pledge to replace the unit if the compressor fails in the first year of operation, to the original owner.
- Consumer product registration required for 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.

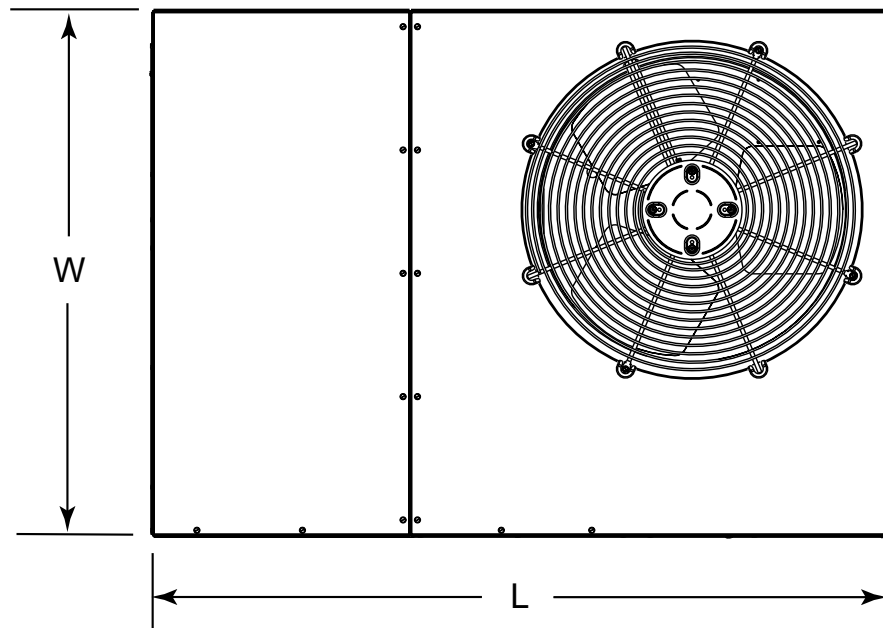
FEATURES and BENEFITS

- **Quality Compressor:** State of the art compressor is standard equipment.
- **R-410A Refrigerant:** Earth friendly non-ozone depleting refrigerant.
- **Hi Pressure Switches:** Ensure long compressor life.
- **Micro-Channel Coils:** All aluminum coils which provide high corrosion resistance.
- **Copper Tube / Aluminum Fin Coil:** Indoor coils are designed to optimize heat transfer, minimize size and cost, and increase durability and reliability.
- **Permanently Lubricated Condenser Motor:** A heavy duty PSC motor for long lasting reliability and quiet operation. Requires no maintenance and is completely protected from rain and snow.
- **Low Voltage Transformer:** Includes 3 Amp fuse to protect low voltage circuit.
- **Liquid Line Filter Driers:** Factory installed at a convenient location for service.
- **Designed Using Galvanized Steel:** With a polyester urethane coat finish. The 950 hour salt spray finish is 1.5 mil thick and resists corrosion 50% better than comparable units.
- **Compact Footprint and Profile:** Make the P7 Series easy to install and transport.
- **0" Clearance:** To combustibles on duct side of the unit allows for installations in tight areas.
- **Plastic Mesh Hail Guard:** A guard that will never rust and protects the units coil from being damaged.
- **Raised Base Pan:** Allows water to drain away from the unit.
- **Easy Compressor and Control Access:** Designed to make servicing easier for the contractor, access panels are provided to all controls and the compressor from the side of the unit. Hi/low service ports allow access without disrupting operation.
- **Easy Access:** To the evaporator coil for cleaning and general maintenance.
- **Drain Trap:** Design optimizes drainage capabilities.
- **Removable Top Grille Assembly:** Allows ease of service to the fan motor.
- **Optional Electric Heat:** Field installed 5 – 20 KW.

MODEL IDENTIFICATION CODE



DIMENSIONS

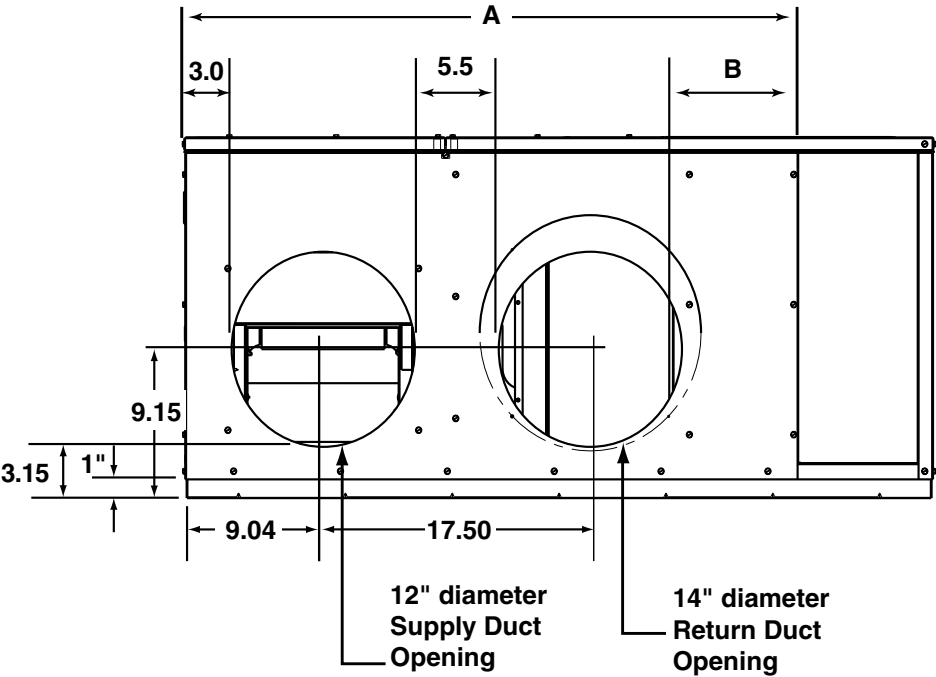
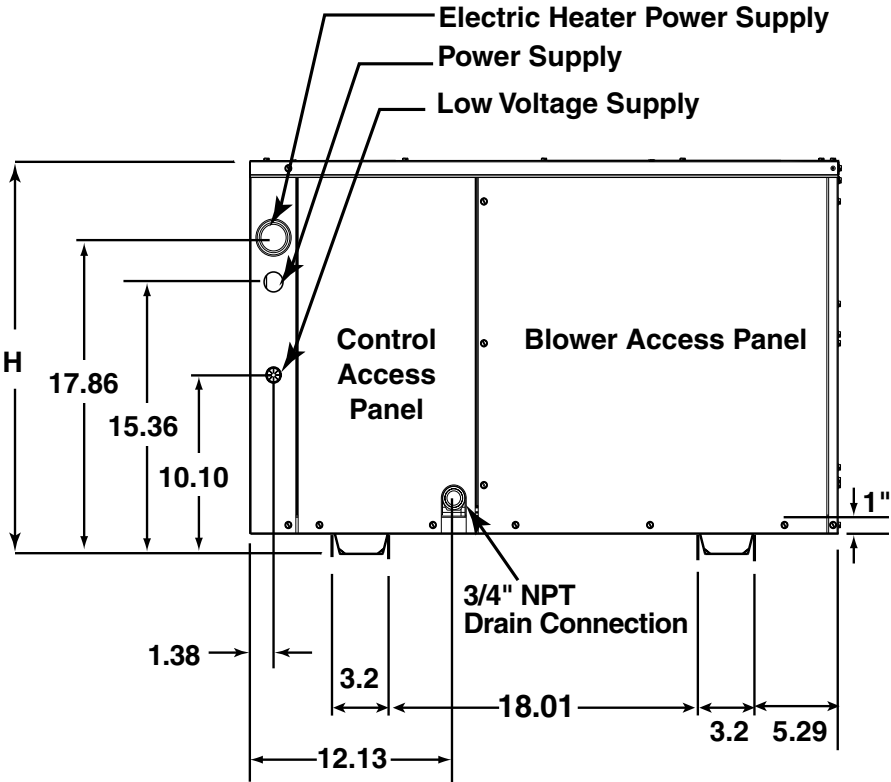


Top View

Model No. GP7RD-	(L) Length	(W) Width	(H) Height	A	B
024K	49	35	22.2	35.02	2.48
030K	49	35	22.2	35.02	2.48
036K	49	35	30.2	35.02	2.48
042K	49	35	30.2	35.02	2.48
048K	49	35	30.2	35.02	2.48

Model Number GP7RD-	Return Diameter (in)	Supply Diameter (in)
024K	12	12
030K	12	12
036K	14	12
042K	14	12
048K	14	12
060K	14	12

DIMENSIONS Continued



PHYSICAL SPECIFICATIONS

GP7RD Models

Model No. GP7RD	024K	030K	036K	042K	048K
Performance Data					
Capacity	23800	28600	36000	40500	47000
SEER	13	13	13	13	13
EER	10.8	10.6	11	11	11
Sound Ratings	77	77	78	79	79
Electric Rating - 60Hz (a)					
Operating Voltage Range	187 - 253	187 - 253	187 - 253	187 - 253	187 - 253
Min. Circuit Ampacity (a)	14.5	15.1	22	29.6	30.8
Field Wire Size - AWG (a)	14	12	10	10	8
Delay Fuse - Max. (b)	20	25	35	45	50
Total Unit - Amps FLA	12.1	12.6	18.2	24.6	25.6
Compressor Data					
Volts	208 - 230	208 - 230	208 - 230	208 - 230	208 - 230
Rated Load Amps	9.6	10.1	15	20	21
Lock Rotor Amps	49	59	88	115	115
Fan Motor and Condenser					
Fan Motor - HP - RPM	1/5 - 825	1/5 - 825	1/8 - 1100	1/4 - 1100	1/4 - 1100
Fan Motor - Amps	1.2	1.2	1.1	1.46	1.46
Fan Diameter / CFM	20" - 2800	20" - 2800	20" - 2800	20" - 3000	20" - 3000
Motor and Evaporator					
Blower Motor - HP - RPM	1/4 - 980	1/4 - 980	1/3 - 900	1/2 - 1080	1/2 - 1080
Blower Motor - Amps	1.3	1.3	2.1	3.1	3.1
CFM @ E.S.P. - in. W.C.	760 @ .30	1045 @ .30	1280 @ .30	1360 @ .30	1740 @ .30
Refrigerant Charge - Oz.	57.6	65.6	81	73	62.4
Shipping weight - lbs.	241	245	300	300	303

- (a) Amperage and wire size based on refrigeration system only. See Electrical Data tables for supplemental electric heaters. Refer to National Electric Code for additional derating factors for field installed conductors.
- (b) Use time delay fuse or "HACR" type circuit breaker.
- (c) Airflow performance is with a dry coil.

ELECTRICAL DATA WITH ELECTRIC HEAT

Model	Heater kw	Single Circuit		Multiple Supply Circuit Option			
		MCA	MOP	Circuit A (Compressor and Fan)		Circuit B (Blower and Heater)	
				MCA	MOP	MCA	MOP
GP7RD-024K	0	14.8	20	-	-	-	-
	5	26.6	30	-	-	-	-
	8	41.2	45	-	-	-	-
	10	51.6	60	-	-	-	-
GP7RD-030K	0	16.3	25	-	-	-	-
	5	26.6	30	-	-	-	-
	8	41.2	45	-	-	-	-
	10	51.6	60	-	-	-	-
	15	76.6	80	50	60	26.6	30
GP7RD-036K	0	22.0	35	-	-	-	-
	5	27.6	35	-	-	-	-
	8	42.2	45	-	-	-	-
	10	52.6	60	-	-	-	-
	15	77.6	80	50	60	27.6	30
GP7RD-042K	0	29.6	45	-	-	-	-
	5	29.6	45				
	8	43.5	45				
	10	53.9	60				
	15	78.9	80	50	60	28.9	30
	20	103.9	110	50	60	53.9	60
GP7RD-048K	0	30.8	50				
	5	30.8	50				
	8	43.5	50				
	10	53.9	60				
	15	78.9	80	50	60	28.9	30
	20	103.9	110	50	60	53.9	60

NOTE: If electric heat is installed, and the overcurrent rating exceeds 60A, internal circuit breakers must be installed in addition to branch circuit protection at the distribution panel.

BLOWER PERFORMANCE

Heat Rise Data (based on Nominal 10kw electric heater)

Model Number GP7RD-		External Static Pressure Drop - inches water column																	
		0.1		0.2		0.3		0.4		0.5		0.6		0.7		0.8		0.9	
Unit	Blower Setting	CFM	HEAT RISE	CFM	HEAT RISE	CFM	HEAT RISE	CFM	HEAT RISE	CFM	HEAT RISE	CFM	HEAT RISE	CFM	HEAT RISE	CFM	HEAT RISE	CFM	HEAT RISE
024K* **	Low	840	38	800	39	760	42	705	45	645	49	565	56	460	69	265	119	230	137
	High	1140	28	1100	29	1045	30	975	32	905	35	815	39	700	45	535	59	305	104
030K @	Low	840	38	800	39	760	42	705	45	645	49	565	56	460	69	265	119	230	137
	High	1140	28	1100	29	1045	30	975	32	905	35	815	39	700	45	535	59	305	104
036K @	Low	1340	24	1315	24	1280	25	1245	25	1210	26	1165	27	1110	28	1065	30	1005	31
	High	1520	21	1490	21	1460	22	1415	22	1380	23	1325	24	1280	25	1210	26	1120	28
042K @	Low	1410	22	1380	23	1360	23	1330	24	1295	24	1260	25	1215	26	1160	27	1075	29
	Med	1805	18	1775	18	1740	18	1700	19	1655	19	1595	20	1535	21	1465	22	1390	23
	High	2140	15	2090	15	2035	16	1985	16	1935	16	1865	17	1785	18	1710	18	1625	19
048K ** *	Low	1410	22	1380	23	1360	23	1330	24	1295	24	1260	25	1215	26	1160	27	1075	29
	Med	1805	18	1775	18	1740	18	1700	19	1655	19	1595	20	1535	21	1465	22	1390	23
	High	2140	15	2090	15	2035	16	1985	16	1935	16	1865	17	1785	18	1710	18	1625	19

NOTE:

Temperature rises shaded gray are for reference only. These conditions are not recommended

* Denotes factory set cooling speed

** Denotes factory set electric heating speed

@ Denotes Factory cooling and electric heating speed

COPPER WIRE SIZE – AWG (1% Voltage Drop)				
Supply Wire Length-Feet				Supply Circuit Ampacity
200	150	100	50	
6	8	10	14	15
4	6	8	12	20
4	6	8	10	25
4	4	6	10	30
3	4	6	8	35
3	4	6	8	40
2	3	4	6	45
2	3	4	6	50

Wire Size based on N.E.C. for 60° type copper conductors.

ACCESSORIES

Heater Application Matrix

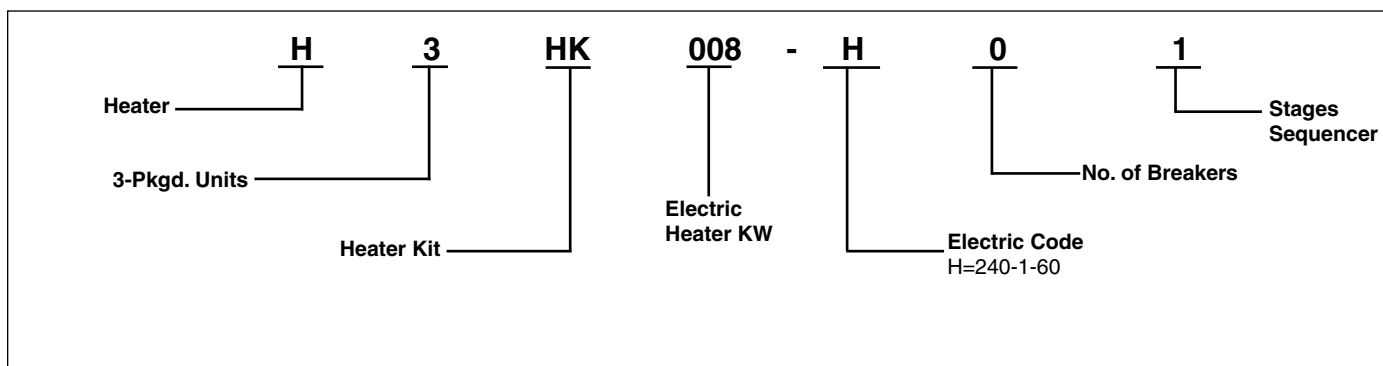
Model Number GP7RD-	H3HK-005H-01B 917166B	H3HK-008H-01B 917167B	H3HK-010H-01B 917168B	H3HK-015H-01B 917169B	H3HK-020H-01B 917170B	H3HK-015H-21B 917172B	H3HK-020H-21B 917173B
024K	X	X	X	NA	NA	NA	NA
030K	X	X	X	X(2)	NA	X	NA
036K	X	X	X	X(2)	NA	X	NA
042K	X	X	X	X(2)	X(2)	X	X
048K	X	X	X	X(2)	X(2)	X	X

NA = Not Approved.

() = Number of internal circuit breaker kits required.

X = Branch circuit protection only.

MODEL IDENTIFICATION CODE



Accessories

Description	Part Number
4-Pole single circuit adaptor	913350
6-Pole single circuit adaptor	913556
Circuit Breaker Single Phase (2-pole)	913554
Extreme High Wind Kit - Ground Mount	920908
Duct Collar-12"	917701
Duct Collar-14"	917702

COOLING EXPANDED RATINGS

GP7RD-024K

O.D.T			65°F	65°F	65°F	75°F	75°F	75°F	85°F	85°F	85°F	95°F	95°F	95°F	105°F	105°F	105°F	115°F	115°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.
600	80	62	27.7	18.5	1.40	25.4	18.3	1.69	23.0	18.2	2.0	20.6	18.0	2.3	18.3	17.9	2.6	15.9	15.9	2.9
600	80	67	28.2	18.1	1.47	26.2	17.1	1.72	24.3	16.2	2.0	22.3	15.2	2.2	20.4	14.2	2.5	18.4	13.2	2.7
600	80	72	28.6	17.8	1.53	27.1	16.0	1.75	25.5	14.2	2.0	24.0	12.3	2.2	22.5	10.5	2.4	20.9	8.7	2.6
600	75	63	27.4	15.5	1.26	25.1	15.2	1.55	22.9	14.9	1.8	20.6	14.5	2.1	18.3	14.2	2.4	16.0	13.9	2.7
750	80	62	30.3	20.6	1.39	28.0	20.4	1.68	25.6	20.3	2.0	23.3	20.1	2.3	20.9	20.0	2.6	18.5	18.5	2.8
750	80	67	30.8	20.2	1.46	28.8	19.3	1.71	26.9	18.3	2.0	24.9	17.3	2.2	23.0	16.3	2.5	21.0	15.3	2.7
750	80	72	31.2	19.9	1.53	29.7	18.1	1.74	28.2	16.3	1.9	26.6	14.5	2.2	25.1	12.7	2.4	23.5	10.8	2.6
750	75	63	30.0	17.6	1.25	27.8	17.3	1.54	25.5	17.0	1.8	23.2	16.7	2.1	20.9	16.3	2.4	18.6	16.0	2.7
900	80	62	31.2	22.3	1.53	28.9	22.2	1.82	26.5	22.0	2.1	24.1	21.9	2.4	21.8	21.7	2.7	19.4	19.4	3.0
900	80	67	31.7	22.0	1.60	29.7	21.0	1.85	27.8	20.0	2.1	25.8	19.1	2.3	23.9	18.1	2.6	21.9	17.1	2.8
900	80	72	32.1	21.7	1.66	30.6	19.8	1.87	29.0	18.0	2.1	27.5	16.2	2.3	26.0	14.4	2.5	24.4	12.6	2.7
900	75	63	30.9	19.4	1.39	28.6	19.1	1.68	26.4	18.7	2.0	24.1	18.4	2.2	21.8	18.1	2.5	19.5	17.8	2.8

GP7RD-030K

O.D.T			65°F	65°F	65°F	75°F	75°F	75°F	85°F	85°F	85°F	95°F	95°F	95°F	105°F	105°F	105°F	115°F	115°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.
850	80	62	33.8	21.8	1.87	31.0	21.9	2.10	28.3	21.9	2.32	25.5	22.0	2.55	22.7	22.1	2.78	19.9	19.9	3.01
850	80	67	34.2	21.7	1.85	32.0	20.8	2.09	29.7	19.9	2.33	27.5	19.0	2.57	25.2	18.1	2.82	22.9	17.2	3.06
850	80	72	34.7	21.5	1.84	32.9	19.7	2.09	31.2	17.8	2.34	29.4	16.0	2.60	27.7	14.1	2.85	26.0	12.3	3.10
850	75	63	47.1	16.4	2.21	44.5	16.3	2.44	41.8	16.2	2.67	39.1	16.1	2.91	36.4	16.0	3.14	33.7	15.9	3.37
1000	80	62	34.9	23.9	1.87	32.2	24.0	2.10	29.4	24.1	2.33	26.6	24.2	2.56	23.8	23.8	2.78	21.0	21.0	3.01
1000	80	67	35.4	23.8	1.85	33.1	22.9	2.10	30.8	22.0	2.34	28.6	21.1	2.58	26.3	20.2	2.82	24.1	19.4	3.06
1000	80	72	35.8	23.7	1.84	34.0	21.8	2.09	32.3	20.0	2.35	30.6	18.1	2.60	28.8	16.3	2.85	27.1	14.4	3.11
1000	75	63	48.3	18.5	2.21	45.6	18.4	2.45	42.9	18.3	2.68	40.2	18.2	2.91	37.5	18.1	3.14	34.9	18.0	3.37
1050	80	62	35.2	24.8	1.86	32.4	24.9	2.09	29.6	25.0	2.32	26.9	25.1	2.55	24.1	24.1	2.78	21.3	21.3	3.01
1050	80	67	35.6	24.7	1.85	33.4	23.8	2.09	31.1	23.0	2.33	28.8	22.1	2.57	26.6	21.2	2.81	24.3	20.3	3.05
1050	80	72	36.0	24.6	1.83	34.3	22.8	2.09	32.6	20.9	2.34	30.8	19.0	2.59	29.1	17.2	2.85	27.3	15.3	3.10
1050	75	63	48.5	19.5	2.21	45.8	19.4	2.44	43.2	19.2	2.67	40.5	19.1	2.90	37.8	19.0	3.13	35.1	18.9	3.36

GP7RD-036K

O.D.T			65°F	65°F	65°F	75°F	75°F	75°F	85°F	85°F	85°F	95°F	95°F	95°F	105°F	105°F	105°F	115°F	115°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.
1100	80	62	43.1	29.3	2.36	38.4	31.5	2.63	33.8	33.7	2.89	29.1	29.1	3.16	24.4	24.4	3.42	19.7	19.7	3.69
1100	80	67	44.4	29.5	2.31	41.3	28.3	2.62	38.1	27.1	2.93	35.0	26.0	3.24	31.8	24.8	3.55	28.6	23.6	3.86
1100	80	72	45.8	29.6	2.25	44.1	25.1	2.61	42.5	20.5	2.96	40.8	15.9	3.32	39.2	11.4	3.68	37.5	6.8	4.04
1100	75	63	49.4	10.3	2.50	45.0	11.8	2.77	40.6	13.3	3.05	36.2	14.9	3.32	31.9	16.4	3.60	27.5	18.0	3.87
1250	80	62	44.4	30.9	2.39	39.8	33.1	2.66	35.1	35.1	2.92	30.4	30.4	3.19	25.7	25.7	3.45	21.1	21.1	3.72
1250	80	67	45.8	31.0	2.34	42.6	29.8	2.65	39.4	28.7	2.96	36.3	27.5	3.27	33.1	26.3	3.58	30.0	25.1	3.89
1250	80	72	47.1	31.2	2.28	45.4	26.6	2.64	43.8	22.0	2.99	42.2	17.5	3.35	40.5	12.9	3.71	38.9	8.3	4.07
1250	75	63	50.7	11.8	2.53	46.3	13.3	2.80	41.9	14.9	3.08	37.6	16.4	3.35	33.2	18.0	3.63	28.8	19.5	3.90
1400	80	62	44.9	32.3	2.47	40.2	34.5	2.73	35.6	35.6	3.00	30.9	30.9	3.26	26.2	26.2	3.53	21.5	21.5	3.79
1400	80	67	46.2	32.4	2.41	43.1	31.3	2.72	39.9	30.1	3.03	36.7	28.9	3.35	33.6	27.7	3.66	30.4	26.5	3.97
1400	80	72	47.5	32.6	2.36	45.9	28.0	2.71	44.3	23.5	3.07	42.6	18.9	3.43	41.0	14.3	3.79	39.3	9.8	4.14
1400	75	63	51.2	13.2	2.61	46.8	14.8	2.88	42.4	16.3	3.15	38.0	17.8	3.43	33.7	19.4	3.70	29.3	20.9	3.98

COOLING EXPANDED RATINGS (CONTINUED)

GP7RD-042K

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.
1200	80	62	42.6	39.1	2.37	39.9	37.9	2.71	37.3	36.8	3.0	34.6	34.6	3.4	31.9	31.9	3.7	29.2	29.2	4.1
1200	80	67	48.8	32.1	2.49	45.6	30.8	2.82	42.4	29.5	3.2	39.2	28.2	3.5	36.0	26.9	3.8	32.9	25.6	4.2
1200	80	72	54.9	25.1	2.61	51.3	23.6	2.94	47.6	22.2	3.3	43.9	20.8	3.6	40.2	19.3	3.9	36.5	17.9	4.3
1200	75	63	45.0	27.5	2.46	42.2	26.3	2.80	39.4	25.1	3.1	36.6	23.9	3.5	33.8	22.7	3.8	31.0	21.5	4.1
1350	80	62	43.9	40.7	2.47	41.2	39.5	2.81	38.5	38.4	3.1	35.8	35.8	3.5	33.1	33.1	3.8	30.4	30.4	4.2
1350	80	67	50.1	33.7	2.59	46.9	32.4	2.93	43.7	31.1	3.3	40.5	29.8	3.6	37.3	28.5	3.9	34.1	27.2	4.3
1350	80	72	56.2	26.7	2.71	52.5	25.3	3.04	48.8	23.8	3.4	45.2	22.4	3.7	41.5	21.0	4.0	37.8	19.5	4.4
1350	75	63	46.2	29.1	2.56	43.4	27.9	2.90	40.6	26.7	3.2	37.9	25.5	3.6	35.1	24.3	3.9	32.3	23.1	4.2
1500	80	62	43.8	42.1	2.52	41.2	41.0	2.85	38.5	38.5	3.2	35.8	35.8	3.5	33.1	33.1	3.9	30.4	30.4	4.2
1500	80	67	50.0	35.1	2.64	46.8	33.8	2.97	43.6	32.5	3.3	40.4	31.2	3.6	37.3	30.0	4.0	34.1	28.7	4.3
1500	80	72	56.2	28.1	2.76	52.5	26.7	3.08	48.8	25.3	3.4	45.1	23.8	3.7	41.4	22.4	4.1	37.7	21.0	4.4
1500	75	63	46.2	30.5	2.61	43.4	29.3	2.94	40.6	28.1	3.3	37.8	27.0	3.6	35.0	25.8	3.9	32.2	24.6	4.3

GP7RD-048K

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	56.5	38.1	3.07	52.0	33.8	3.51	47.4	29.6	3.94	42.8	25.3	4.38	38.3	21.0	4.81	33.7	16.8	5.25
1500	80	67	57.5	31.0	3.06	53.6	29.2	3.51	49.7	27.3	3.96	45.7	25.5	4.40	41.8	23.7	4.85	37.9	21.8	5.30
1500	80	72	58.5	23.9	3.05	55.2	24.5	3.51	51.9	25.1	3.97	48.6	25.7	4.43	45.3	26.3	4.89	42.0	26.9	5.35
1500	75	63	52.0	35.2	3.04	47.6	31.5	3.48	43.2	27.7	3.92	38.7	23.9	4.35	34.3	20.1	4.79	29.8	16.3	5.23
1650	80	62	57.8	48.0	2.97	53.2	43.7	3.41	48.6	39.5	3.84	44.1	35.2	4.28	39.5	30.9	4.71	35.0	26.7	5.15
1650	80	67	58.8	40.9	2.96	54.8	39.1	3.41	50.9	37.2	3.86	47.0	35.4	4.31	43.0	33.6	4.75	39.1	31.7	5.20
1650	80	72	59.8	33.8	2.95	56.5	34.4	3.41	53.1	35.0	3.87	49.8	35.6	4.34	46.5	36.2	4.80	43.2	36.8	5.26
1650	75	63	53.3	45.1	2.94	48.8	41.4	3.38	44.4	37.6	3.82	40.0	33.8	4.26	35.5	30.0	4.69	31.1	26.2	5.13
1800	80	62	58.2	42.3	3.09	53.7	38.0	3.52	49.1	33.8	3.96	44.6	29.5	4.39	40.0	25.2	4.83	35.4	21.0	5.26
1800	80	67	59.2	35.2	3.08	55.3	33.4	3.53	51.4	31.5	3.98	47.4	29.7	4.42	43.5	27.9	4.87	39.6	26.0	5.32
1800	80	72	60.2	28.1	3.07	56.9	28.7	3.53	53.6	29.3	3.99	50.3	29.9	4.45	47.0	30.5	4.91	43.7	31.1	5.37
1800	75	63	53.7	39.4	3.06	49.3	35.7	3.50	44.9	31.9	3.93	40.4	28.1	4.37	36.0	24.3	4.81	31.6	20.5	5.25



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

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