

Engineering Data

ED 18525-2

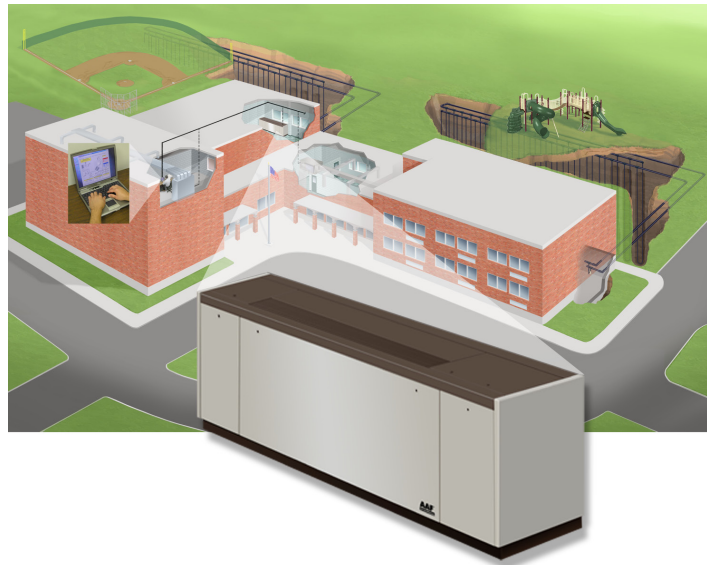
Group: **WSHP**

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Date: **March 2014**

Geothermal Water Source Heat Pump Unit Ventilator Model GRQ

Cooling and Heating Capacity Data



Selecting Unit Size

Proper sizing of the water source heat pump self-contained unit ventilator is important for trouble free operation. An oversized unit can reduce performance and cause operational problems such as rapid temperature pull down. This can cause short cycling and potential compressor damage. It can also result in poor temperature and humidity control, low saturated evaporator coil conditions and low discharge air temperatures. To properly size the unit ventilator, determine the cooling load based on May and September conditions at 1:00 p.m. when the classroom is occupied. Do not select the units for July or August or after 3:00 p.m. when the classroom is unoccupied. Select a properly

sized unit based on the calculated cooling load, ambient air temperature and entering air temperature to the coil. If the calculated cooling load falls between two unit sizes, select the smaller of the two units to minimize the potential problems seen with oversized units.

Freeze Protection

The use of antifreeze in the water loop is required to provide protection against freeze-up of the system water piping and coils.

GRQ – Size 024 (1000 SCFM) – 2nd Stage High Fan

EWT (°F)	GPM	WPD		EAT (°F)	Cooling					Heating			
		PSI	FT of W.C.		Total (Btu/hr)	Sensible (Btu/hr)	Power Input (kW)	THR (Btu/hr)	EER	Total (Btu/hr)	Power Input (kW)	THA (Btu/hr)	COP
20	4.0	0.4	0.8	65/55	Operation Not Recommended					12600	1.319	8100	2.80
		0.4	0.8	70/59						12500	1.378	7800	2.66
		0.4	0.8	75/63						12300	1.452	7300	2.48
		0.4	0.8	80/67						12200	1.526	7000	2.34
		0.4	0.8	85/71									
	6.0	0.8	1.8	65/55						13300	1.366	8600	2.85
		0.8	1.8	70/59						13100	1.425	8200	2.69
		0.8	1.8	75/63						13000	1.499	7900	2.54
		0.8	1.8	80/67						12800	1.573	7400	2.38
		0.8	1.8	85/71									
	8.0	1.4	3.1	65/55						13900	1.413	9100	2.88
		1.4	3.1	70/59						13800	1.472	8800	2.75
		1.4	3.1	75/63						13600	1.546	8300	2.58
		1.4	3.1	80/67						13500	1.620	8000	2.44
		1.4	3.1	85/71									
30	4.0	0.3	0.8	65/55						15700	1.389	11000	3.31
		0.3	0.8	70/59	22000	16000	1.061	25600	20.7	15500	1.448	10600	3.13
		0.3	0.8	75/63	23400	16700	1.074	27100	21.8	15400	1.522	10200	2.96
		0.3	0.8	80/67	24800	17300	1.087	28500	22.8	15200	1.596	9800	2.79
		0.3	0.8	85/71	26200	17900	1.100	30000	23.8				
	6.0	0.8	1.7	65/55	20800	16500	0.971	24100	21.4	16300	1.436	11400	3.32
		0.8	1.7	70/59	22200	16100	0.983	25600	22.6	16200	1.495	11100	3.17
		0.8	1.7	75/63	23600	16700	0.996	27000	23.7	16000	1.569	10600	2.99
		0.8	1.7	80/67	25100	17400	1.009	28500	24.9	15800	1.643	10200	2.82
		0.8	1.7	85/71	26500	18000	1.022	30000	25.9				
	8.0	1.3	3.0	65/55	21000	16600	0.893	24000	23.5	17000	1.483	11900	3.36
		1.3	3.0	70/59	22500	16200	0.905	25600	24.9	16800	1.542	11500	3.19
		1.3	3.0	75/63	23900	16800	0.918	27000	26.0	16700	1.616	11200	3.03
		1.3	3.0	80/67	25300	17400	0.931	28500	27.2	16500	1.690	10700	2.86
		1.3	3.0	85/71	26700	18100	0.944	29900	28.3				
40	4.0	0.3	0.8	65/55	21700	17700	1.135	25600	19.1	18700	1.456	13700	3.76
		0.3	0.8	70/59	23100	17400	1.147	27000	20.1	18500	1.516	13300	3.57
		0.3	0.8	75/63	24500	18000	1.160	28500	21.1	18400	1.590	13000	3.39
		0.3	0.8	80/67	26000	18600	1.173	30000	22.2	18200	1.664	12500	3.20
		0.3	0.8	85/71	27400	19200	1.185	31400	23.1				
	6.0	0.7	1.7	65/55	21900	17800	1.056	25500	20.7	19300	1.503	14200	3.76
		0.7	1.7	70/59	23400	17500	1.069	27000	21.9	19200	1.563	13900	3.60
		0.7	1.7	75/63	24800	18100	1.082	28500	22.9	19000	1.637	13400	3.40
		0.7	1.7	80/67	26200	18700	1.094	29900	23.9	18900	1.711	13100	3.23
		0.7	1.7	85/71	27600	19300	1.107	31400	24.9				
	8.0	1.3	3.0	65/55	22200	17900	0.978	25500	22.7	20000	1.550	14700	3.78
		1.3	3.0	70/59	23600	17600	0.991	27000	23.8	19800	1.610	14300	3.60
		1.3	3.0	75/63	25000	18200	1.003	28400	24.9	19700	1.684	14000	3.43
		1.3	3.0	80/67	26400	18800	1.016	29900	26.0	19500	1.758	13500	3.25
		1.3	3.0	85/71	27800	19400	1.029	31300	27.0				
50	4.0	0.3	0.7	65/55	22000	18000	1.238	26200	17.8	21600	1.522	16400	4.16
		0.3	0.7	70/59	23400	17700	1.250	27700	18.7	21500	1.581	16100	3.98
		0.3	0.7	75/63	24800	18300	1.263	29100	19.6	21300	1.655	15700	3.77
		0.3	0.7	80/67	26300	18900	1.276	30700	20.6	21100	1.729	15200	3.57
		0.3	0.7	85/71	27700	19600	1.289	32100	21.5				
	6.0	0.7	1.6	65/55	22300	18100	1.160	26300	19.2	22200	1.569	16800	4.14
		0.7	1.6	70/59	23700	17800	1.172	27700	20.2	22100	1.628	16500	3.97
		0.7	1.6	75/63	25100	18400	1.185	29100	21.2	21900	1.702	16100	3.77
		0.7	1.6	80/67	26500	19000	1.198	30600	22.1	21800	1.776	15700	3.59
		0.7	1.6	85/71	27900	19600	1.211	32000	23.0				
	8.0	1.3	2.9	65/55	22500	18200	1.082	26200	20.8	22900	1.616	17400	4.15
		1.3	2.9	70/59	23900	17900	1.094	27600	21.8	22700	1.675	17000	3.97
		1.3	2.9	75/63	25300	18500	1.107	29100	22.9	22600	1.749	16600	3.78
		1.3	2.9	80/67	26700	19100	1.120	30500	23.8	22400	1.823	16200	3.60
		1.3	2.9	85/71	28200	19700	1.133	32100	24.9				
60	4.0	0.3	0.7	65/55	21700	17700	1.359	26300	16.0	24300	1.586	18900	4.49
		0.3	0.7	70/59	23100	17400	1.371	27800	16.8	24200	1.645	18600	4.31
		0.3	0.7	75/63	24500	18000	1.384	29200	17.7	24000	1.719	18100	4.09
		0.3	0.7	80/67	25900	18600	1.397	30700	18.5	23900	1.793	17800	3.90
		0.3	0.7	85/71	27300	19300	1.410	32100	19.4				
	6.0	0.7	1.6	65/55	21900	17800	1.281	26300	17.1	25000	1.633	19400	4.48
		0.7	1.6	70/59	23300	17500	1.293	27700	18.0	24800	1.692	19000	4.29
		0.7	1.6	75/63	24700	18100	1.306	29200	18.9	24700	1.766	18700	4.10
		0.7	1.6	80/67	26200	18700	1.319	30700	19.9	24500	1.840	18200	3.90
		0.7	1.6	85/71	27600	19300	1.332	32100	20.7				
	8.0	1.2	2.8	65/55	22100	17900	1.203	26200	18.4	25600	1.680	19900	4.46
		1.2	2.8	70/59	23600	17600	1.215	27700	19.4	25500	1.739	19600	4.29
		1.2	2.8	75/63	25000	18200	1.228	29200	20.4	25300	1.813	19100	4.09
		1.2	2.8	80/67	26400	18800	1.241	30600	21.3	25100	1.887	18700	3.89
		1.2	2.8	85/71	27800	19400	1.254	32100	22.2				

GRQ – Size 024 (1000 SCFM) – 2nd Stage High Fan (Continued)

EWT (°F)	GPM	WPD		EAT (°F)	Cooling					Heating			
		PSI	FT of W.C.		Total (Btu/hr)	Sensible (Btu/hr)	Power Input (kW)	THR (Btu/hr)	EER	Total (Btu/hr)	Power Input (kW)	THA (Btu/hr)	COP
70	4.0	0.3	0.7	65/55	20900	17200	1.498	26000	14.0	26900	1.648	21300	4.78
		0.3	0.7	70/59	22300	16800	1.510	27500	14.8	26700	1.707	20900	4.58
		0.3	0.7	75/63	23700	17500	1.523	28900	15.6	26600	1.781	20500	4.37
		0.3	0.7	80/67	25100	18100	1.536	30300	16.3	26400	1.855	20100	4.17
	6.0	0.3	0.7	85/71	26500	18700	1.549	31800	17.1				
		0.7	1.6	65/55	21100	17300	1.420	25900	14.9	27500	1.695	21700	4.75
		0.7	1.6	70/59	22500	16900	1.432	27400	15.7	27400	1.754	21400	4.57
		0.7	1.6	75/63	23900	17600	1.445	28800	16.5	27200	1.828	21000	4.36
		0.7	1.6	80/67	25300	18200	1.458	30300	17.4	27000	1.902	20500	4.16
		0.7	1.6	85/71	26800	18800	1.471	31800	18.2				
	8.0	1.2	2.7	65/55	21300	17400	1.342	25900	15.9	28200	1.742	22300	4.74
		1.2	2.7	70/59	22700	17000	1.354	27300	16.8	28000	1.801	21900	4.55
		1.2	2.7	75/63	24200	17600	1.367	28900	17.7	27900	1.875	21500	4.36
		1.2	2.7	80/67	25600	18300	1.380	30300	18.6	27700	1.949	21000	4.16
		1.2	2.7	85/71	27000	18900	1.393	31800	19.4				
80	4.0	0.3	0.7	65/55	19700	16600	1.655	25300	11.9	29200	1.708	23400	5.01
		0.3	0.7	70/59	21100	16300	1.667	26800	12.7	29100	1.767	23100	4.82
		0.3	0.7	75/63	22600	16900	1.680	28300	13.5	28900	1.841	22600	4.60
		0.3	0.7	80/67	24000	17500	1.693	29800	14.2	28800	1.915	22300	4.40
	6.0	0.3	0.7	85/71	25400	18100	1.706	31200	14.9				
		0.7	1.5	65/55	20000	16700	1.577	25400	12.7	29900	1.755	23900	4.99
		0.7	1.5	70/59	21400	16400	1.589	26800	13.5	29700	1.814	23500	4.79
		0.7	1.5	75/63	22800	17000	1.602	28300	14.2	29600	1.888	23200	4.59
		0.7	1.5	80/67	24200	17600	1.615	29700	15.0	29400	1.962	22700	4.39
		0.7	1.5	85/71	25600	18200	1.628	31200	15.7				
	8.0	1.2	2.7	65/55	20200	16800	1.499	25300	13.5	30500	1.802	24300	4.96
		1.2	2.7	70/59	21600	16500	1.511	26800	14.3	30400	1.861	24000	4.78
		1.2	2.7	75/63	23000	17100	1.524	28200	15.1	30200	1.935	23600	4.57
		1.2	2.7	80/67	24500	17700	1.537	29700	15.9	30100	2.009	23200	4.39
		1.2	2.7	85/71	25900	18300	1.549	31200	16.7				
90	4.0	0.3	0.7	65/55	18500	16200	1.829	24700	10.1	31500	1.766	25500	5.22
		0.3	0.7	70/59	19900	15900	1.842	26200	10.8	31300	1.825	25100	5.02
		0.3	0.7	75/63	21300	16500	1.855	27600	11.5	31200	1.899	24700	4.81
		0.3	0.7	80/67	22700	17100	1.867	29100	12.2	31000	1.973	24300	4.60
	6.0	0.3	0.7	85/71	24100	17700	1.880	30500	12.8				
		0.7	1.5	65/55	18700	16300	1.751	24700	10.7	32100	1.813	25900	5.18
		0.7	1.5	70/59	20100	15900	1.764	26100	11.4	32000	1.872	25600	5.01
		0.7	1.5	75/63	21500	16600	1.776	27600	12.1	31800	1.946	25200	4.78
		0.7	1.5	80/67	23000	17200	1.789	29100	12.9	31600	2.020	24700	4.58
		0.7	1.5	85/71	24400	17800	1.802	30600	13.5				
	8.0	1.2	2.7	65/55	18900	16400	1.673	24600	11.3	32800	1.860	26500	5.16
		1.2	2.7	70/59	20400	16000	1.685	26200	12.1	32600	1.919	26100	4.97
		1.2	2.7	75/63	21800	16700	1.698	27600	12.8	32500	1.993	25700	4.77
		1.2	2.7	80/67	23200	17300	1.711	29000	13.6	32300	2.067	25200	4.58
		1.2	2.7	85/71	24600	17900	1.724	30500	14.3				
100	4.0	0.3	0.7	65/55	17300	15900	2.022	24200	8.6				
		0.3	0.7	70/59	18700	15600	2.034	25600	9.2				
		0.3	0.7	75/63	20100	16200	2.047	27100	9.8				
		0.3	0.7	80/67	21500	16800	2.060	28500	10.4				
	6.0	0.3	0.7	85/71	22900	17500	2.073	30000	11.0				
		0.7	1.5	65/55	17500	16000	1.944	24100	9.0				
		0.7	1.5	70/59	18900	15700	1.956	25600	9.7				
		0.7	1.5	75/63	20300	16300	1.969	27000	10.3				
		0.7	1.5	80/67	21700	16900	1.982	28500	10.9				
		0.7	1.5	85/71	23200	17500	1.995	30000	11.6				
	8.0	1.1	2.6	65/55	17700	16100	1.866	24100	9.5				
		1.1	2.6	70/59	19100	15800	1.878	25500	10.2				
		1.1	2.6	75/63	20600	16400	1.891	27100	10.9				
		1.1	2.6	80/67	22000	17000	1.904	28500	11.6				
		1.1	2.6	85/71	23400	17600	1.917	29900	12.2				
110	4.0	0.3	0.7	65/55	16300	15800	2.232	23900	7.3				
		0.3	0.7	70/59	17700	15400	2.244	25400	7.9				
		0.3	0.7	75/63	19100	16100	2.257	26800	8.5				
		0.3	0.7	80/67	20500	16700	2.270	28200	9.0				
	6.0	0.3	0.7	85/71	21900	17300	2.283	29700	9.6				
		0.6	1.5	65/55	16500	15900	2.154	23900	7.7				
		0.6	1.5	70/59	17900	15500	2.166	25300	8.3				
		0.6	1.5	75/63	19300	16200	2.179	26700	8.9				
		0.6	1.5	80/67	20700	16800	2.192	28200	9.4				
		0.6	1.5	85/71	22200	17400	2.205	29700	10.1				
	8.0	1.1	2.6	65/55	16700	16000	2.076	23800	8.0				
		1.1	2.6	70/59	18100	15600	2.088	25200	8.7				
		1.1	2.6	75/63	19600	16200	2.101	26800	9.3				
		1.1	2.6	80/67	21000	16900	2.114	28200	9.9				
		1.1	2.6	85/71	22400	17500	2.127	29700	10.5				

Operation Not Recommended

GRQ – Size 024 (750 SCFM) – 1st Stage Medium Fan

EWT (°F)	GPM	WPD		EAT (°F)	Cooling					Heating			
		PSI	FT of W.C.		Total (Btu/hr)	Sensible (Btu/hr)	Power Input (kW)	THR (Btu/hr)	EER	Total (Btu/hr)	Power Input (kW)	THA (Btu/hr)	COP
20	4.0	0.4	0.8	65/55	Operation Not Recommended					8900	1.007	5500	2.59
		0.4	0.8	70/59						8700	1.067	5100	2.39
		0.4	0.8	75/63						8600	1.141	4700	2.21
		0.4	0.8	80/67						8400	1.215	4300	2.02
		0.4	0.8	85/71									
	6.0	0.8	1.8	65/55						9400	1.019	5900	2.70
		0.8	1.8	70/59						9300	1.078	5600	2.53
		0.8	1.8	75/63						9100	1.152	5200	2.31
		0.8	1.8	80/67						9000	1.226	4800	2.15
		0.8	1.8	85/71									
	8.0	1.4	3.1	65/55						10000	1.030	6500	2.84
		1.4	3.1	70/59						9900	1.089	6200	2.66
		1.4	3.1	75/63						9700	1.163	5700	2.44
		1.4	3.1	80/67						9600	1.237	5400	2.27
		1.4	3.1	85/71									
30	4.0	0.3	0.8	65/55						10500	1.030	7000	2.98
		0.3	0.8	70/59	17800	13600	0.680	20100	26.2	10400	1.089	6700	2.80
		0.3	0.8	75/63	19200	14200	0.693	21600	27.7	10200	1.163	6200	2.57
		0.3	0.8	80/67	20600	14800	0.706	23000	29.2	10100	1.237	5900	2.39
		0.3	0.8	85/71	22100	15500	0.718	24600	30.8				
	6.0	0.8	1.7	65/55	16600	14000	0.589	18600	28.2	11100	1.041	7500	3.12
		0.8	1.7	70/59	18000	13700	0.602	20100	29.9	11000	1.100	7200	2.93
		0.8	1.7	75/63	19500	14300	0.615	21600	31.7	10800	1.174	6800	2.69
		0.8	1.7	80/67	20900	14900	0.627	23000	33.3	10600	1.248	6300	2.49
		0.8	1.7	85/71	22300	15500	0.640	24500	34.8				
	8.0	1.3	3.0	65/55	16900	14100	0.511	18600	33.1	11700	1.052	8100	3.26
		1.3	3.0	70/59	18300	13800	0.524	20100	34.9	11500	1.111	7700	3.03
		1.3	3.0	75/63	19700	14400	0.536	21500	36.8	11400	1.185	7400	2.82
		1.3	3.0	80/67	21100	15000	0.549	23000	38.4	11200	1.259	6900	2.60
		1.3	3.0	85/71	22500	15600	0.562	24400	40.0				
40	4.0	0.3	0.8	65/55	16800	14000	0.706	19200	23.8	12600	1.049	9000	3.52
		0.3	0.8	70/59	18200	13600	0.718	20700	25.3	12500	1.108	8700	3.30
		0.3	0.8	75/63	19600	14200	0.731	22100	26.8	12300	1.182	8300	3.05
		0.3	0.8	80/67	21100	14900	0.744	23600	28.4	12100	1.256	7800	2.82
		0.3	0.8	85/71	22500	15500	0.756	25100	29.8				
	6.0	0.7	1.7	65/55	17100	14000	0.628	19200	27.2	13200	1.060	9600	3.65
		0.7	1.7	70/59	18500	13700	0.640	20700	28.9	13000	1.119	9200	3.40
		0.7	1.7	75/63	19900	14300	0.653	22100	30.5	12900	1.193	8800	3.17
		0.7	1.7	80/67	21300	14900	0.665	23600	32.0	12700	1.267	8400	2.94
		0.7	1.7	85/71	22700	15600	0.678	25000	33.5				
	8.0	1.3	3.0	65/55	17300	14100	0.549	19200	31.5	13700	1.071	10000	3.75
		1.3	3.0	70/59	18700	13800	0.562	20600	33.3	13600	1.131	9700	3.52
		1.3	3.0	75/63	20100	14400	0.574	22100	35.0	13400	1.205	9300	3.26
		1.3	3.0	80/67	21500	15000	0.587	23500	36.6	13300	1.279	8900	3.04
		1.3	3.0	85/71	23000	15600	0.600	25000	38.3				
50	4.0	0.3	0.7	65/55	16600	13700	0.770	19200	21.6	14900	1.065	11300	4.10
		0.3	0.7	70/59	18000	13400	0.782	20700	23.0	14700	1.124	10900	3.83
		0.3	0.7	75/63	19400	14000	0.795	22100	24.4	14600	1.198	10500	3.57
		0.3	0.7	80/67	20800	14600	0.808	23600	25.7	14400	1.272	10100	3.31
		0.3	0.7	85/71	22200	15300	0.821	25000	27.0				
	6.0	0.7	1.6	65/55	16800	13800	0.692	19200	24.3	15400	1.076	11700	4.19
		0.7	1.6	70/59	18200	13500	0.704	20600	25.9	15300	1.135	11400	3.95
		0.7	1.6	75/63	19600	14100	0.717	22000	27.3	15100	1.209	11000	3.66
		0.7	1.6	80/67	21100	14700	0.730	23600	28.9	15000	1.283	10600	3.42
		0.7	1.6	85/71	22500	15300	0.743	25000	30.3				
	8.0	1.3	2.9	65/55	17000	13900	0.614	19100	27.7	16000	1.087	12300	4.31
		1.3	2.9	70/59	18400	13600	0.626	20500	29.4	15900	1.147	12000	4.06
		1.3	2.9	75/63	19900	14200	0.639	22100	31.1	15700	1.221	11500	3.77
		1.3	2.9	80/67	21300	14800	0.652	23500	32.7	15500	1.295	11100	3.50
		1.3	2.9	85/71	22700	15400	0.665	25000	34.1				
60	4.0	0.3	0.7	65/55	15800	13400	0.861	18700	18.4	17100	1.078	13400	4.64
		0.3	0.7	70/59	17200	13000	0.873	20200	19.7	17000	1.137	13100	4.38
		0.3	0.7	75/63	18700	13600	0.886	21700	21.1	16800	1.211	12700	4.06
		0.3	0.7	80/67	20100	14300	0.899	23200	22.4	16700	1.285	12300	3.81
		0.3	0.7	85/71	21500	14900	0.912	24600	23.6				
	6.0	0.7	1.6	65/55	16100	13400	0.783	18800	20.6	17700	1.089	14000	4.76
		0.7	1.6	70/59	17500	13100	0.795	20200	22.0	17600	1.148	13700	4.49
		0.7	1.6	75/63	18900	13700	0.808	21700	23.4	17400	1.222	13200	4.17
		0.7	1.6	80/67	20300	14300	0.821	23100	24.7	17200	1.296	12800	3.89
		0.7	1.6	85/71	21700	15000	0.833	24500	26.1				
	8.0	1.2	2.8	65/55	16300	13500	0.704	18700	23.2	18300	1.100	14500	4.87
		1.2	2.8	70/59	17700	13200	0.717	20100	24.7	18100	1.159	14100	4.57
		1.2	2.8	75/63	19100	13800	0.730	21600	26.2	18000	1.233	13800	4.27
		1.2	2.8	80/67	20600	14400	0.742	23100	27.8	17800	1.307	13300	3.99
		1.2	2.8	85/71	22000	15000	0.755	24600	29.1				

GRQ – Size 024 (750 SCFM) – 1st Stage Medium Fan (Continued)

EWT (°F)	GPM	WPD		EAT (°F)	Cooling					Heating			
		PSI	FT of W.C.		Total (Btu/hr)	Sensible (Btu/hr)	Power Input (kW)	THR (Btu/hr)	EER	Total (Btu/hr)	Power Input (kW)	THA (Btu/hr)	COP
70	4.0	0.3	0.7	65/55	14800	12900	0.977	18100	15.1	19200	1.087	15500	5.17
		0.3	0.7	70/59	16200	12500	0.989	19600	16.4	19100	1.147	15200	4.88
		0.3	0.7	75/63	17600	13200	1.002	21000	17.6	18900	1.221	14700	4.53
		0.3	0.7	80/67	19000	13800	1.015	22500	18.7	18800	1.295	14400	4.25
	6.0	0.3	0.7	85/71	20500	14400	1.027	24000	20.0				
		0.7	1.6	65/55	15000	13000	0.898	18100	16.7	19800	1.099	16000	5.28
		0.7	1.6	70/59	16400	12600	0.911	19500	18.0	19700	1.158	15700	4.98
		0.7	1.6	75/63	17800	13200	0.924	21000	19.3	19500	1.232	15300	4.63
		0.7	1.6	80/67	19300	13900	0.936	22500	20.6	19300	1.306	14800	4.33
		0.7	1.6	85/71	20700	14500	0.949	23900	21.8				
		1.2	2.7	65/55	15300	13100	0.820	18100	18.7	20400	1.110	16600	5.38
		1.2	2.7	70/59	16700	12700	0.833	19500	20.0	20300	1.169	16300	5.08
	8.0	1.2	2.7	75/63	18100	13300	0.845	21000	21.4	20100	1.243	15900	4.73
		1.2	2.7	80/67	19500	14000	0.858	22400	22.7	19900	1.317	15400	4.42
		1.2	2.7	85/71	20900	14600	0.871	23900	24.0				
80	4.0	0.3	0.7	65/55	13600	12400	1.117	17400	12.2	21200	1.094	17500	5.67
		0.3	0.7	70/59	15000	12000	1.129	18900	13.3	21000	1.153	17100	5.33
		0.3	0.7	75/63	16400	12700	1.142	20300	14.4	20900	1.227	16700	4.99
		0.3	0.7	80/67	17800	13300	1.155	21700	15.4	20700	1.301	16300	4.66
	6.0	0.3	0.7	85/71	19300	13900	1.168	23300	16.5				
		0.7	1.5	65/55	13800	12500	1.039	17300	13.3	21700	1.105	17900	5.75
		0.7	1.5	70/59	15200	12100	1.051	18800	14.5	21600	1.164	17600	5.43
		0.7	1.5	75/63	16700	12800	1.064	20300	15.7	21400	1.238	17200	5.06
		0.7	1.5	80/67	18100	13400	1.077	21800	16.8	21300	1.312	16800	4.75
		0.7	1.5	85/71	19500	14000	1.090	23200	17.9				
		1.2	2.7	65/55	14100	12600	0.961	17400	14.7	22300	1.116	18500	5.85
		1.2	2.7	70/59	15500	12200	0.973	18800	15.9	22200	1.175	18200	5.53
	8.0	1.2	2.7	75/63	16900	12800	0.986	20300	17.1	22000	1.249	17700	5.16
		1.2	2.7	80/67	18300	13500	0.999	21700	18.3	21800	1.323	17300	4.82
		1.2	2.7	85/71	19700	14100	1.012	23200	19.5				
90	4.0	0.3	0.7	65/55	12400	12000	1.282	16800	9.7	22800	1.097	19100	6.09
		0.3	0.7	70/59	13800	11600	1.294	18200	10.7	22700	1.156	18800	5.75
		0.3	0.7	75/63	15300	12200	1.307	19800	11.7	22500	1.230	18300	5.36
		0.3	0.7	80/67	16700	12900	1.320	21200	12.7	22400	1.304	17900	5.03
	6.0	0.3	0.7	85/71	18100	13500	1.333	22600	13.6				
		0.7	1.5	65/55	12700	12000	1.204	16800	10.5	23400	1.108	19600	6.18
		0.7	1.5	70/59	14100	11700	1.216	18300	11.6	23300	1.168	19300	5.84
		0.7	1.5	75/63	15500	12300	1.229	19700	12.6	23100	1.242	18900	5.45
		0.7	1.5	80/67	16900	12900	1.242	21100	13.6	22900	1.316	18400	5.10
		0.7	1.5	85/71	18300	13600	1.255	22600	14.6				
		1.2	2.7	65/55	12900	12100	1.126	16700	11.5	24000	1.120	20200	6.27
		1.2	2.7	70/59	14300	11800	1.138	18200	12.6	23900	1.179	19900	5.94
	8.0	1.2	2.7	75/63	15700	12400	1.151	19600	13.6	23700	1.253	19400	5.54
		1.2	2.7	80/67	17200	13000	1.164	21200	14.8	23500	1.327	19000	5.19
		1.2	2.7	85/71	18600	13600	1.177	22600	15.8				
100	4.0	0.3	0.7	65/55	11500	11700	1.470	16500	7.8	Operation Not Recommended			
		0.3	0.7	70/59	12900	11300	1.482	18000	8.7				
		0.3	0.7	75/63	14300	11900	1.495	19400	9.6				
		0.3	0.7	80/67	15700	12600	1.508	20800	10.4				
	6.0	0.3	0.7	85/71	17200	13200	1.521	22400	11.3				
		0.7	1.5	65/55	11700	11700	1.392	16500	8.4				
		0.7	1.5	70/59	13100	11400	1.404	17900	9.3				
		0.7	1.5	75/63	14600	12000	1.417	19400	10.3				
		0.7	1.5	80/67	16000	12600	1.430	20900	11.2				
		0.7	1.5	85/71	17400	13300	1.443	22300	12.1				
		1.1	2.6	65/55	12000	11800	1.314	16500	9.1				
		1.1	2.6	70/59	13400	11500	1.326	17900	10.1				
	8.0	1.1	2.6	75/63	14800	12100	1.339	19400	11.1				
		1.1	2.6	80/67	16200	12700	1.352	20800	12.0				
		1.1	2.6	85/71	17600	13300	1.365	22300	12.9				
110	4.0	0.3	0.7	65/55	10900	11600	1.681	16600	6.5				
		0.3	0.7	70/59	12300	11200	1.694	18100	7.3				
		0.3	0.7	75/63	13800	11800	1.706	19600	8.1				
		0.3	0.7	80/67	15200	12500	1.719	21100	8.8				
	6.0	0.3	0.7	85/71	16600	13100	1.732	22500	9.6				
		0.6	1.5	65/55	11200	11700	1.603	16700	7.0				
		0.6	1.5	70/59	12600	11300	1.615	18100	7.8				
		0.6	1.5	75/63	14000	11900	1.628	19600	8.6				
		0.6	1.5	80/67	15400	12500	1.641	21000	9.4				
		0.6	1.5	85/71	16800	13200	1.654	22400	10.2				
		1.1	2.6	65/55	11400	11700	1.525	16600	7.5				
		1.1	2.6	70/59	12800	11400	1.537	18000	8.3				
	8.0	1.1	2.6	75/63	14200	12000	1.550	19500	9.2				
		1.1	2.6	80/67	15700	12600	1.563	21000	10.0				
		1.1	2.6	85/71	17100	13300	1.576	22500	10.9				

GRQ – Size 024 (650 SCFM) – 1st Stage Low Fan

EWT (°F)	GPM	WPD		EAT (°F)	Cooling					Heating			
		PSI	FT of W.C.		Total (Btu/hr)	Sensible (Btu/hr)	Power Input (kW)	THR (Btu/hr)	EER	Total (Btu/hr)	Power Input (kW)	THA (Btu/hr)	COP
20	4.0	0.4	0.8	65/55	Operation Not Recommended					5700	0.963	2400	1.73
		0.4	0.8	70/59						5500	1.022	2000	1.58
		0.4	0.8	75/63						5400	1.096	1700	1.44
		0.4	0.8	80/67						5200	1.170	1200	1.30
		0.4	0.8	85/71									
	6.0	0.8	1.8	65/55						6200	0.974	2900	1.86
		0.8	1.8	70/59						6100	1.034	2600	1.73
		0.8	1.8	75/63						5900	1.108	2100	1.56
		0.8	1.8	80/67						5800	1.182	1800	1.44
		0.8	1.8	85/71									
	8.0	1.4	3.1	65/55						6800	0.986	3400	2.02
		1.4	3.1	70/59						6700	1.045	3100	1.88
		1.4	3.1	75/63						6500	1.119	2700	1.70
		1.4	3.1	80/67						6300	1.193	2200	1.55
		1.4	3.1	85/71									
30	4.0	0.3	0.8	65/55						9000	1.009	5600	2.61
		0.3	0.8	70/59	17000	11600	0.653	19200	26.0	8800	1.068	5200	2.41
		0.3	0.8	75/63	18400	12200	0.666	20700	27.6	8700	1.142	4800	2.23
		0.3	0.8	80/67	19900	12800	0.679	22200	29.3	8500	1.216	4300	2.05
		0.3	0.8	85/71	21300	13400	0.691	23700	30.8				
	6.0	0.8	1.7	65/55	15800	12000	0.562	17700	28.1	9500	1.020	6000	2.73
		0.8	1.7	70/59	17300	11700	0.575	19300	30.1	9400	1.079	5700	2.55
		0.8	1.7	75/63	18700	12300	0.588	20700	31.8	9200	1.153	5300	2.34
		0.8	1.7	80/67	20100	12900	0.600	22100	33.5	9100	1.227	4900	2.17
		0.8	1.7	85/71	21500	13500	0.613	23600	35.1				
	8.0	1.3	3.0	65/55	16100	12100	0.484	17800	33.3	10100	1.031	6600	2.87
		1.3	3.0	70/59	17500	11800	0.496	19200	35.3	10000	1.091	6300	2.68
		1.3	3.0	75/63	18900	12400	0.509	20600	37.1	9800	1.165	5800	2.46
		1.3	3.0	80/67	20300	13000	0.522	22100	38.9	9600	1.239	5400	2.27
		1.3	3.0	85/71	21700	13600	0.535	23500	40.6				
40	4.0	0.3	0.8	65/55	15900	12000	0.666	18200	23.9	11800	1.050	8200	3.29
		0.3	0.8	70/59	17300	11600	0.678	19600	25.5	11700	1.109	7900	3.09
		0.3	0.8	75/63	18700	12200	0.691	21100	27.1	11500	1.183	7500	2.85
		0.3	0.8	80/67	20100	12900	0.704	22500	28.6	11400	1.257	7100	2.66
		0.3	0.8	85/71	21500	13500	0.717	23900	30.0				
	6.0	0.7	1.7	65/55	16100	12100	0.588	18100	27.4	12400	1.061	8800	3.42
		0.7	1.7	70/59	17500	11700	0.600	19500	29.2	12300	1.120	8500	3.22
		0.7	1.7	75/63	18900	12300	0.613	21000	30.8	12100	1.194	8000	2.97
		0.7	1.7	80/67	20300	13000	0.626	22400	32.4	11900	1.268	7600	2.75
		0.7	1.7	85/71	21800	13600	0.638	24000	34.2				
	8.0	1.3	3.0	65/55	16300	12100	0.509	18000	32.0	13000	1.072	9300	3.55
		1.3	3.0	70/59	17700	11800	0.522	19500	33.9	12800	1.131	8900	3.31
		1.3	3.0	75/63	19200	12400	0.535	21000	35.9	12700	1.205	8600	3.09
		1.3	3.0	80/67	20600	13000	0.547	22500	37.7	12500	1.279	8100	2.86
		1.3	3.0	85/71	22000	13700	0.560	23900	39.3				
50	4.0	0.3	0.7	65/55	15600	11800	0.731	18100	21.3	14300	1.085	10600	3.86
		0.3	0.7	70/59	17000	11500	0.743	19500	22.9	14200	1.144	10300	3.63
		0.3	0.7	75/63	18400	12100	0.756	21000	24.3	14000	1.218	9800	3.37
		0.3	0.7	80/67	19900	12700	0.769	22500	25.9	13900	1.292	9500	3.15
		0.3	0.7	85/71	21300	13300	0.782	24000	27.2				
	6.0	0.7	1.6	65/55	15800	11900	0.653	18000	24.2	14900	1.096	11200	3.98
		0.7	1.6	70/59	17200	11600	0.665	19500	25.9	14800	1.155	10900	3.75
		0.7	1.6	75/63	18700	12200	0.678	21000	27.6	14600	1.229	10400	3.48
		0.7	1.6	80/67	20100	12800	0.691	22500	29.1	14400	1.303	10000	3.24
		0.7	1.6	85/71	21500	13400	0.704	23900	30.5				
	8.0	1.3	2.9	65/55	16100	12000	0.575	18100	28.0	15500	1.107	11700	4.10
		1.3	2.9	70/59	17500	11700	0.587	19500	29.8	15300	1.167	11300	3.84
		1.3	2.9	75/63	18900	12300	0.600	20900	31.5	15200	1.241	11000	3.59
		1.3	2.9	80/67	20300	12900	0.613	22400	33.1	15000	1.315	10500	3.34
		1.3	2.9	85/71	21700	13500	0.626	23800	34.7				
60	4.0	0.3	0.7	65/55	14900	11600	0.829	17700	18.0	16500	1.115	12700	4.33
		0.3	0.7	70/59	16400	11200	0.842	19300	19.5	16400	1.174	12400	4.09
		0.3	0.7	75/63	17800	11800	0.854	20700	20.8	16200	1.248	11900	3.80
		0.3	0.7	80/67	19200	12500	0.867	22200	22.1	16100	1.322	11600	3.57
		0.3	0.7	85/71	20600	13100	0.880	23600	23.4				
	6.0	0.7	1.6	65/55	15200	11600	0.751	17800	20.2	17100	1.126	13300	4.45
		0.7	1.6	70/59	16600	11300	0.763	19200	21.8	17000	1.186	13000	4.20
		0.7	1.6	75/63	18000	11900	0.776	20600	23.2	16800	1.260	12500	3.90
		0.7	1.6	80/67	19400	12500	0.789	22100	24.6	16600	1.334	12000	3.64
		0.7	1.6	85/71	20800	13200	0.802	23500	25.9				
	8.0	1.2	2.8	65/55	15400	11700	0.673	17700	22.9	17700	1.138	13800	4.55
		1.2	2.8	70/59	16800	11400	0.685	19100	24.5	17500	1.197	13400	4.28
		1.2	2.8	75/63	18200	12000	0.698	20600	26.1	17400	1.271	13100	4.01
		1.2	2.8	80/67	19700	12600	0.711	22100	27.7	17200	1.345	12600	3.74
		1.2	2.8	85/71	21100	13200	0.724	23600	29.1				

GRQ – Size 024 (650 SCFM) – 1st Stage Low Fan (Continued)

EWT (°F)	GPM	WPD		EAT (°F)	Cooling					Heating			
		PSI	FT of W.C.		Total (Btu/hr)	Sensible (Btu/hr)	Power Input (kW)	THR (Btu/hr)	EER	Total (Btu/hr)	Power Input (kW)	THA (Btu/hr)	COP
70	4.0	0.3	0.7	65/55	14000	11200	0.953	17300	14.7	18500	1.140	14600	4.75
		0.3	0.7	70/59	15400	10800	0.965	18700	16.0	18300	1.199	14200	4.47
		0.3	0.7	75/63	16800	11500	0.978	20100	17.2	18200	1.273	13900	4.19
		0.3	0.7	80/67	18200	12100	0.991	21600	18.4	18000	1.347	13400	3.91
	6.0	0.3	0.7	85/71	19700	12700	1.004	23100	19.6				
		0.7	1.6	65/55	14200	11300	0.875	17200	16.2	19000	1.151	15100	4.83
		0.7	1.6	70/59	15600	10900	0.887	18600	17.6	18900	1.211	14800	4.57
		0.7	1.6	75/63	17100	11600	0.900	20200	19.0	18700	1.285	14300	4.26
		0.7	1.6	80/67	18500	12200	0.913	21600	20.3	18600	1.359	14000	4.01
		0.7	1.6	85/71	19900	12800	0.925	23100	21.5				
		1.2	2.7	65/55	14500	11400	0.796	17200	18.2	19600	1.163	15600	4.93
		1.2	2.7	70/59	15900	11000	0.809	18700	19.7	19500	1.222	15300	4.67
	8.0	1.2	2.7	75/63	17300	11600	0.822	20100	21.0	19300	1.296	14900	4.36
		1.2	2.7	80/67	18700	12300	0.834	21500	22.4	19100	1.370	14400	4.08
		1.2	2.7	85/71	20100	12900	0.847	23000	23.7				
80	4.0	0.3	0.7	65/55	12900	10800	1.094	16600	11.8	20200	1.160	16200	5.10
		0.3	0.7	70/59	14300	10400	1.106	18100	12.9	20100	1.219	15900	4.83
		0.3	0.7	75/63	15700	11100	1.119	19500	14.0	19900	1.293	15500	4.51
		0.3	0.7	80/67	17100	11700	1.132	21000	15.1	19700	1.367	15000	4.22
	6.0	0.3	0.7	85/71	18500	12300	1.144	22400	16.2				
		0.7	1.5	65/55	13100	10900	1.015	16600	12.9	20800	1.171	16800	5.20
		0.7	1.5	70/59	14500	10500	1.028	18000	14.1	20600	1.230	16400	4.90
		0.7	1.5	75/63	15900	11100	1.041	19500	15.3	20500	1.304	16000	4.60
		0.7	1.5	80/67	17400	11800	1.053	21000	16.5	20300	1.378	15600	4.31
		0.7	1.5	85/71	18800	12400	1.066	22400	17.6				
		1.2	2.7	65/55	13300	11000	0.937	16500	14.2	21300	1.182	17300	5.28
		1.2	2.7	70/59	14700	10600	0.950	17900	15.5	21200	1.241	17000	5.00
	8.0	1.2	2.7	75/63	16200	11200	0.962	19500	16.8	21000	1.315	16500	4.68
		1.2	2.7	80/67	17600	11900	0.975	20900	18.1	20900	1.389	16200	4.41
		1.2	2.7	85/71	19000	12500	0.988	22400	19.2				
90	4.0	0.3	0.7	65/55	11700	10400	1.244	15900	9.4	21800	1.174	17800	5.44
		0.3	0.7	70/59	13100	10000	1.257	17400	10.4	21700	1.234	17500	5.15
		0.3	0.7	75/63	14500	10600	1.270	18800	11.4	21500	1.308	17000	4.81
		0.3	0.7	80/67	15900	11300	1.282	20300	12.4	21300	1.382	16600	4.51
	6.0	0.3	0.7	85/71	17300	11900	1.295	21700	13.4				
		0.7	1.5	65/55	11900	10500	1.166	15900	10.2	22400	1.186	18400	5.53
		0.7	1.5	70/59	13300	10100	1.179	17300	11.3	22200	1.245	18000	5.22
		0.7	1.5	75/63	14700	10700	1.191	18800	12.3	22100	1.319	17600	4.91
		0.7	1.5	80/67	16200	11400	1.204	20300	13.5	21900	1.393	17100	4.60
		0.7	1.5	85/71	17600	12000	1.217	21800	14.5				
		1.2	2.7	65/55	12100	10500	1.088	15800	11.1	23000	1.197	18900	5.63
		1.2	2.7	70/59	13500	10200	1.100	17300	12.3	22800	1.256	18500	5.32
	8.0	1.2	2.7	75/63	15000	10800	1.113	18800	13.5	22600	1.330	18100	4.98
		1.2	2.7	80/67	16400	11400	1.126	20200	14.6	22500	1.404	17700	4.69
		1.2	2.7	85/71	17800	12100	1.139	21700	15.6				
100	4.0	0.3	0.7	65/55	10500	10000	1.398	15300	7.5	Operation Not Recommended			
		0.3	0.7	70/59	11900	9700	1.410	16700	8.4				
		0.3	0.7	75/63	13300	10300	1.423	18200	9.3				
		0.3	0.7	80/67	14800	10900	1.436	19700	10.3				
	6.0	0.3	0.7	85/71	16200	11500	1.449	21100	11.2				
		0.7	1.5	65/55	10700	10100	1.320	15200	8.1				
		0.7	1.5	70/59	12200	9700	1.332	16700	9.2				
		0.7	1.5	75/63	13600	10400	1.345	18200	10.1				
		0.7	1.5	80/67	15000	11000	1.358	19600	11.0				
		0.7	1.5	85/71	16400	11600	1.371	21100	12.0				
		1.1	2.6	65/55	11000	10200	1.242	15200	8.9				
		1.1	2.6	70/59	12400	9800	1.254	16700	9.9				
	8.0	1.1	2.6	75/63	13800	10500	1.267	18100	10.9				
		1.1	2.6	80/67	15200	11100	1.280	19600	11.9				
		1.1	2.6	85/71	16700	11700	1.292	21100	12.9				
110	4.0	0.3	0.7	65/55	9500	9700	1.546	14800	6.1				
		0.3	0.7	70/59	10900	9400	1.558	16200	7.0				
		0.3	0.7	75/63	12300	10000	1.571	17700	7.8				
		0.3	0.7	80/67	13800	10600	1.584	19200	8.7				
	6.0	0.3	0.7	85/71	15200	11200	1.597	20700	9.5				
		0.6	1.5	65/55	9700	9800	1.468	14700	6.6				
		0.6	1.5	70/59	11200	9500	1.480	16300	7.6				
		0.6	1.5	75/63	12600	10100	1.493	17700	8.4				
		0.6	1.5	80/67	14000	10700	1.506	19100	9.3				
		0.6	1.5	85/71	15400	11300	1.519	20600	10.1				
		1.1	2.6	65/55	10000	9900	1.390	14700	7.2				
		1.1	2.6	70/59	11400	9600	1.402	16200	8.1				
	8.0	1.1	2.6	75/63	12800	10200	1.415	17600	9.0				
		1.1	2.6	80/67	14200	10800	1.428	19100	9.9				
		1.1	2.6	85/71	15600	11400	1.441	20500	10.8				

GRQ – Size 040 (1250 SCFM) – 2nd Stage High Fan

EWT (°F)	GPM	WPD		EAT (°F)	Cooling					Heating			
		PSI	FT of W.C.		Total (Btu/hr)	Sensible (Btu/hr)	Power Input (kW)	THR (Btu/hr)	EER	Total (Btu/hr)	Power Input (kW)	THA (Btu/hr)	COP
20	6.7	1.9	4.3	65/55	Operation Not Recommended					22700	2.291	14900	2.90
		1.9	4.3	70/59						22300	2.456	13900	2.66
		1.9	4.3	75/63						21900	2.661	12800	2.41
		1.9	4.3	80/67						21400	2.867	11600	2.19
		1.9	4.3	85/71									
	10.0	4.1	9.2	65/55						25700	2.509	17100	3.00
		4.1	9.2	70/59						25300	2.673	16200	2.77
		4.1	9.2	75/63						24900	2.879	15100	2.53
		4.1	9.2	80/67						24400	3.084	13900	2.32
		4.1	9.2	85/71									
	13.3	7.0	15.9	65/55						28700	2.726	19400	3.08
		7.0	15.9	70/59						28300	2.891	18400	2.87
		7.0	15.9	75/63						27900	3.096	17300	2.64
		7.0	15.9	80/67						27400	3.302	16100	2.43
		7.0	15.9	85/71									
30	6.7	1.8	4.2	65/55						28300	2.403	20100	3.45
		1.8	4.2	70/59	38000	26300	1.894	44500	20.1	28000	2.567	19200	3.19
		1.8	4.2	75/63	42000	28000	1.930	48600	21.8	27500	2.773	18000	2.90
		1.8	4.2	80/67	45900	29700	1.966	52600	23.3	27000	2.978	16800	2.65
		1.8	4.2	85/71	49900	31400	2.002	56700	24.9				
	10.0	3.9	9.0	65/55	35200	27600	1.499	40300	23.5	31300	2.620	22400	3.50
		3.9	9.0	70/59	39100	26700	1.533	44300	25.5	31000	2.785	21500	3.26
		3.9	9.0	75/63	43100	28400	1.569	48500	27.5	30500	2.990	20300	2.99
		3.9	9.0	80/67	47000	30100	1.605	52500	29.3	30000	3.196	19100	2.75
		3.9	9.0	85/71	50900	31800	1.640	56500	31.0				
	13.3	6.8	15.4	65/55	36300	28000	1.138	40200	31.9	34300	2.838	24600	3.54
		6.8	15.4	70/59	40200	27100	1.172	44200	34.3	34000	3.002	23800	3.32
		6.8	15.4	75/63	44100	28800	1.207	48200	36.5	33500	3.208	22600	3.06
		6.8	15.4	80/67	48100	30500	1.243	52300	38.7	33000	3.413	21400	2.83
		6.8	15.4	85/71	52000	32300	1.279	56400	40.7				
40	6.7	1.8	4.0	65/55	35500	28300	2.031	42400	17.5	33000	2.508	24400	3.85
		1.8	4.0	70/59	39400	27300	2.065	46400	19.1	32600	2.673	23500	3.57
		1.8	4.0	75/63	43300	29000	2.101	50500	20.6	32100	2.878	22300	3.27
		1.8	4.0	80/67	47300	30800	2.137	54600	22.1	31700	3.084	21200	3.01
		1.8	4.0	85/71	51200	32500	2.172	58600	23.6				
	10.0	3.8	8.7	65/55	36600	28700	1.670	42300	21.9	36000	2.726	26700	3.87
		3.8	8.7	70/59	40500	27700	1.704	46300	23.8	35600	2.890	25700	3.61
		3.8	8.7	75/63	44400	29400	1.740	50300	25.5	35100	3.096	24500	3.32
		3.8	8.7	80/67	48400	31200	1.775	54500	27.3	34700	3.301	23400	3.08
		3.8	8.7	85/71	52300	32900	1.811	58500	28.9				
	13.3	6.6	15.0	65/55	37600	29100	1.309	42100	28.7	39000	2.943	29000	3.88
		6.6	15.0	70/59	41600	28100	1.342	46200	31.0	38600	3.108	28000	3.64
		6.6	15.0	75/63	45500	29800	1.378	50200	33.0	38100	3.313	26800	3.37
		6.6	15.0	80/67	49400	31600	1.414	54200	34.9	37700	3.519	25700	3.14
		6.6	15.0	85/71	53400	33300	1.450	58300	36.8				
50	6.7	1.7	3.9	65/55	35600	27700	2.220	43200	16.0	36800	2.608	27900	4.13
		1.7	3.9	70/59	39500	26700	2.254	47200	17.5	36500	2.772	27000	3.86
		1.7	3.9	75/63	43500	28400	2.290	51300	19.0	36000	2.978	25800	3.54
		1.7	3.9	80/67	47400	30100	2.325	55300	20.4	35500	3.183	24600	3.27
		1.7	3.9	85/71	51400	31900	2.361	59500	21.8				
	10.0	3.7	8.5	65/55	36700	28100	1.859	43000	19.7	39800	2.825	30200	4.13
		3.7	8.5	70/59	40600	27100	1.892	47100	21.5	39500	2.990	29300	3.87
		3.7	8.5	75/63	44600	28800	1.928	51200	23.1	39000	3.195	28100	3.57
		3.7	8.5	80/67	48500	30500	1.964	55200	24.7	38500	3.401	26900	3.31
		3.7	8.5	85/71	52400	32300	2.000	59200	26.2				
	13.3	6.4	14.6	65/55	37800	28500	1.497	42900	25.3	42800	3.043	32400	4.12
		6.4	14.6	70/59	41700	27500	1.531	46900	27.2	42500	3.207	31600	3.88
		6.4	14.6	75/63	45600	29200	1.567	50900	29.1	42000	3.413	30400	3.60
		6.4	14.6	80/67	49600	30900	1.603	55100	30.9	41500	3.618	29200	3.36
		6.4	14.6	85/71	53500	32700	1.638	59100	32.7				
60	6.7	1.7	3.8	65/55	34700	26300	2.426	43000	14.3	40100	2.701	30900	4.35
		1.7	3.8	70/59	38600	25300	2.460	47000	15.7	39800	2.865	30000	4.07
		1.7	3.8	75/63	42600	27000	2.496	51100	17.1	39300	3.071	28800	3.75
		1.7	3.8	80/67	46500	28800	2.532	55100	18.4	38800	3.277	27600	3.47
		1.7	3.8	85/71	50500	30500	2.568	59300	19.7				
	10.0	3.6	8.3	65/55	35800	26700	2.065	42800	17.3	43100	2.919	33100	4.32
		3.6	8.3	70/59	39700	25700	2.099	46900	18.9	42700	3.083	32200	4.06
		3.6	8.3	75/63	43700	27400	2.135	51000	20.5	42300	3.289	31100	3.77
		3.6	8.3	80/67	47600	29200	2.170	55000	21.9	41800	3.494	29900	3.50
		3.6	8.3	85/71	51600	30900	2.206	59100	23.4				
	13.3	6.2	14.2	65/55	36900	27100	1.704	42700	21.7	46100	3.136	35400	4.30
		6.2	14.2	70/59	40800	26100	1.738	46700	23.5	45700	3.301	34400	4.05
		6.2	14.2	75/63	44800	27800	1.773	50900	25.3	45300	3.506	33300	3.78
		6.2	14.2	80/67	48700	29600	1.809	54900	26.9	44800	3.712	32100	3.53
		6.2	14.2	85/71	52600	31300	1.845	58900	28.5				

GRQ – Size 040 (1250 SCFM) – 2nd Stage High Fan (Continued)

EWT (°F)	GPM	WPD		EAT (°F)	Cooling					Heating			
		PSI	FT of W.C.		Total (Btu/hr)	Sensible (Btu/hr)	Power Input (kW)	THR (Btu/hr)	EER	Total (Btu/hr)	Power Input (kW)	THA (Btu/hr)	COP
70	6.7	1.6	3.8	65/55	33100	24700	2.651	42100	12.5	43100	2.788	33600	4.53
		1.6	3.8	70/59	37000	23800	2.684	46200	13.8	42700	2.953	32600	4.23
		1.6	3.8	75/63	40900	25500	2.720	50200	15.0	42200	3.158	31400	3.91
		1.6	3.8	80/67	44900	27200	2.756	54300	16.3	41800	3.364	30300	3.64
		1.6	3.8	85/71	48800	29000	2.792	58300	17.5				
	10.0	3.5	8.1	65/55	34100	25100	2.289	41900	14.9	46100	3.006	35800	4.49
		3.5	8.1	70/59	38100	24200	2.323	46000	16.4	45700	3.170	34900	4.22
		3.5	8.1	75/63	42000	25900	2.359	50100	17.8	45200	3.376	33700	3.92
		3.5	8.1	80/67	45900	27600	2.395	54100	19.2	44800	3.581	32600	3.66
		3.5	8.1	85/71	49900	29400	2.430	58200	20.5				
	13.3	6.1	13.9	65/55	35200	25600	1.928	41800	18.3	49100	3.223	38100	4.46
		6.1	13.9	70/59	39100	24600	1.962	45800	19.9	48700	3.388	37100	4.21
		6.1	13.9	75/63	43100	26300	1.998	49900	21.6	48200	3.593	35900	3.93
		6.1	13.9	80/67	47000	28000	2.033	53900	23.1	47800	3.799	34800	3.68
		6.1	13.9	85/71	51000	29800	2.069	58100	24.6				
80	6.7	1.6	3.7	65/55	30800	23400	2.893	40700	10.6	45900	2.869	36100	4.68
		1.6	3.7	70/59	34700	22500	2.927	44700	11.9	45500	3.034	35100	4.39
		1.6	3.7	75/63	38700	24200	2.962	48800	13.1	45000	3.239	33900	4.07
		1.6	3.7	80/67	42600	25900	2.998	52800	14.2	44600	3.445	32800	3.79
		1.6	3.7	85/71	46600	27700	3.034	57000	15.4				
	10.0	3.5	7.9	65/55	31900	23800	2.531	40500	12.6	48900	3.087	38400	4.64
		3.5	7.9	70/59	35800	22900	2.565	44600	14.0	48500	3.251	37400	4.37
		3.5	7.9	75/63	39800	24600	2.601	48700	15.3	48000	3.457	36200	4.07
		3.5	7.9	80/67	43700	26300	2.637	52700	16.6	47600	3.662	35100	3.81
		3.5	7.9	85/71	47600	28100	2.673	56700	17.8				
	13.3	6.0	13.7	65/55	33000	24300	2.170	40400	15.2	51900	3.304	40600	4.60
		6.0	13.7	70/59	36900	23300	2.204	44400	16.7	51500	3.469	39700	4.35
		6.0	13.7	75/63	40800	25000	2.240	48400	18.2	51000	3.674	38500	4.06
		6.0	13.7	80/67	44800	26700	2.275	52600	19.7	50600	3.880	37400	3.82
		6.0	13.7	85/71	48700	28500	2.311	56600	21.1				
90	6.7	1.6	3.6	65/55	28200	22500	3.152	39000	8.9	48800	2.944	38800	4.85
		1.6	3.6	70/59	32100	21500	3.186	43000	10.1	48400	3.109	37800	4.56
		1.6	3.6	75/63	36100	23200	3.222	47100	11.2	48000	3.314	36700	4.24
		1.6	3.6	80/67	40000	24900	3.258	51100	12.3	47500	3.520	35500	3.95
		1.6	3.6	85/71	43900	26700	3.294	55100	13.3				
	10.0	3.4	7.8	65/55	29300	22900	2.791	38800	10.5	51800	3.162	41000	4.80
		3.4	7.8	70/59	33200	21900	2.825	42800	11.8	51400	3.326	40000	4.53
		3.4	7.8	75/63	37100	23600	2.861	46900	13.0	51000	3.532	38900	4.23
		3.4	7.8	80/67	41100	25300	2.897	51000	14.2	50500	3.737	37700	3.96
		3.4	7.8	85/71	45000	27100	2.932	55000	15.3				
	13.3	5.9	13.4	65/55	30400	23300	2.430	38700	12.5	54800	3.379	43300	4.75
		5.9	13.4	70/59	34300	22300	2.464	42700	13.9	54400	3.544	42300	4.49
		5.9	13.4	75/63	38200	24000	2.499	46700	15.3	53900	3.749	41100	4.21
		5.9	13.4	80/67	42200	25800	2.535	50900	16.6	53500	3.955	40000	3.96
		5.9	13.4	85/71	46100	27500	2.571	54900	17.9				
100	6.7	1.6	3.6	65/55	25500	21600	3.430	37200	7.4				
		1.6	3.6	70/59	29400	20700	3.464	41200	8.5				
		1.6	3.6	75/63	33300	22400	3.500	45200	9.5				
		1.6	3.6	80/67	37300	24100	3.536	49400	10.5				
		1.6	3.6	85/71	41200	25800	3.571	53400	11.5				
	10.0	3.4	7.7	65/55	26500	22000	3.069	37000	8.6				
		3.4	7.7	70/59	30500	21100	3.103	41100	9.8				
		3.4	7.7	75/63	34400	22800	3.138	45100	11.0				
		3.4	7.7	80/67	38300	24500	3.174	49100	12.1				
		3.4	7.7	85/71	42300	26200	3.210	53300	13.2				
	13.3	5.8	13.3	65/55	27600	22400	2.707	36800	10.2				
		5.8	13.3	70/59	31500	21500	2.741	40900	11.5				
		5.8	13.3	75/63	35500	23200	2.777	45000	12.8				
		5.8	13.3	80/67	39400	24900	2.813	49000	14.0				
		5.8	13.3	85/71	43400	26600	2.849	53100	15.2				
110	6.7	1.5	3.5	65/55	22800	20500	3.725	35500	6.1				
		1.5	3.5	70/59	26700	19500	3.759	39500	7.1				
		1.5	3.5	75/63	30600	21200	3.795	43600	8.1				
		1.5	3.5	80/67	34600	22900	3.831	47700	9.0				
		1.5	3.5	85/71	38500	24700	3.867	51700	10.0				
	10.0	3.3	7.6	65/55	23900	20900	3.364	35400	7.1				
		3.3	7.6	70/59	27800	19900	3.398	39400	8.2				
		3.3	7.6	75/63	31700	21600	3.434	43400	9.2				
		3.3	7.6	80/67	35700	23300	3.470	47500	10.3				
		3.3	7.6	85/71	39600	25100	3.505	51600	11.3				
	13.3	5.7	13.1	65/55	24900	21300	3.003	35100	8.3				
		5.7	13.1	70/59	28900	20300	3.037	39300	9.5				
		5.7	13.1	75/63	32800	22000	3.073	43300	10.7				
		5.7	13.1	80/67	36700	23700	3.108	47300	11.8				
		5.7	13.1	85/71	40700	25500	3.144	51400	12.9				

Operation Not Recommended

GRQ – Size 040 (1000 SCFM) – 1st Stage Medium Fan

EWT (°F)	GPM	WPD		EAT (°F)	Cooling					Heating			
		PSI	FT of W.C.		Total (Btu/hr)	Sensible (Btu/hr)	Power Input (kW)	THR (Btu/hr)	EER	Total (Btu/hr)	Power Input (kW)	THA (Btu/hr)	COP
20	6.7	1.9	4.3	65/55	Operation Not Recommended					9200	1.695	3400	1.59
		1.9	4.3	70/59						8800	1.859	2500	1.39
		1.9	4.3	75/63						8300	2.065	1300	1.18
		1.9	4.3	80/67						7900	2.270	200	1.02
	10.0	1.9	4.3	85/71									
		4.1	9.2	65/55						12200	1.912	5700	1.87
		4.1	9.2	70/59						11800	2.077	4700	1.66
		4.1	9.2	75/63						11300	2.282	3500	1.45
		4.1	9.2	80/67						10900	2.488	2400	1.28
		4.1	9.2	85/71									
	13.3	7.0	15.9	65/55						15200	2.130	7900	2.09
		7.0	15.9	70/59						14800	2.294	7000	1.89
		7.0	15.9	75/63						14300	2.500	5800	1.67
		7.0	15.9	80/67						13900	2.705	4700	1.50
		7.0	15.9	85/71									
30	6.7	1.8	4.2	65/55						15000	1.742	9100	2.52
		1.8	4.2	70/59	27100	20500	1.269	31400	21.4	14700	1.907	8200	2.26
		1.8	4.2	75/63	31000	22200	1.305	35500	23.8	14200	2.112	7000	1.97
		1.8	4.2	80/67	34900	23900	1.341	39500	26.0	13700	2.318	5800	1.73
	10.0	1.8	4.2	85/71	38900	25600	1.377	43600	28.2				
		3.9	9.0	65/55	24200	21800	0.874	27200	27.7	18000	1.960	11300	2.69
		3.9	9.0	70/59	28100	20900	0.908	31200	30.9	17700	2.124	10500	2.44
		3.9	9.0	75/63	32100	22600	0.944	35300	34.0	17200	2.330	9200	2.16
		3.9	9.0	80/67	36000	24300	0.980	39300	36.7	16700	2.535	8000	1.93
		3.9	9.0	85/71	40000	26100	1.015	43500	39.4				
	13.3	6.8	15.4	65/55	25300	22200	0.513	27100	49.3	21000	2.177	13600	2.82
		6.8	15.4	70/59	29200	21300	0.547	31100	53.4	20600	2.342	12600	2.58
		6.8	15.4	75/63	33200	23000	0.582	35200	57.0	20200	2.547	11500	2.32
		6.8	15.4	80/67	37100	24700	0.618	39200	60.0	19700	2.753	10300	2.10
		6.8	15.4	85/71	41100	26500	0.654	43300	62.8				
40	6.7	1.8	4.0	65/55	23000	19900	1.276	27400	18.0	20900	1.785	14800	3.43
		1.8	4.0	70/59	26900	19000	1.310	31400	20.5	20600	1.950	13900	3.09
		1.8	4.0	75/63	30900	20700	1.346	35500	23.0	20100	2.155	12700	2.73
		1.8	4.0	80/67	34800	22400	1.382	39500	25.2	19600	2.361	11500	2.43
	10.0	1.8	4.0	85/71	38800	24100	1.417	43600	27.4				
		3.8	8.7	65/55	24100	20300	0.915	27200	26.3	23900	2.003	17100	3.49
		3.8	8.7	70/59	28000	19400	0.949	31200	29.5	23600	2.167	16200	3.19
		3.8	8.7	75/63	32000	21100	0.985	35400	32.5	23100	2.373	15000	2.85
		3.8	8.7	80/67	35900	22800	1.020	39400	35.2	22600	2.578	13800	2.57
		3.8	8.7	85/71	39800	24500	1.056	43400	37.7				
	13.3	6.6	15.0	65/55	25200	20700	0.554	27100	45.5	26900	2.220	19300	3.55
		6.6	15.0	70/59	29100	19800	0.587	31100	49.6	26600	2.385	18500	3.27
		6.6	15.0	75/63	33000	21500	0.623	35100	53.0	26100	2.590	17300	2.95
		6.6	15.0	80/67	37000	23200	0.659	39200	56.1	25600	2.796	16100	2.68
		6.6	15.0	85/71	40900	24900	0.695	43300	58.8				
50	6.7	1.7	3.9	65/55	22500	18700	1.392	27300	16.2	25500	1.823	19300	4.10
		1.7	3.9	70/59	26400	17800	1.426	31300	18.5	25100	1.988	18300	3.70
		1.7	3.9	75/63	30400	19500	1.462	35400	20.8	24700	2.193	17200	3.30
		1.7	3.9	80/67	34300	21200	1.498	39400	22.9	24200	2.399	16000	2.95
	10.0	1.7	3.9	85/71	38200	22900	1.534	43400	24.9				
		3.7	8.5	65/55	23600	19100	1.031	27100	22.9	28500	2.041	21500	4.09
		3.7	8.5	70/59	27500	18200	1.065	31100	25.8	28100	2.205	20600	3.73
		3.7	8.5	75/63	31400	19900	1.101	35200	28.5	27700	2.411	19500	3.36
		3.7	8.5	80/67	35400	21600	1.137	39300	31.1	27200	2.617	18300	3.04
		3.7	8.5	85/71	39300	23300	1.172	43300	33.5				
	13.3	6.4	14.6	65/55	24700	19500	0.670	27000	36.9	31500	2.259	23800	4.08
		6.4	14.6	70/59	28600	18600	0.704	31000	40.6	31100	2.423	22800	3.76
		6.4	14.6	75/63	32500	20300	0.739	35000	44.0	30700	2.629	21700	3.42
		6.4	14.6	80/67	36500	22000	0.775	39100	47.1	30200	2.834	20500	3.12
		6.4	14.6	85/71	40400	23700	0.811	43200	49.8				
60	6.7	1.7	3.8	65/55	21700	17800	1.567	27000	13.8	28700	1.857	22400	4.53
		1.7	3.8	70/59	25600	16800	1.601	31100	16.0	28300	2.022	21400	4.10
		1.7	3.8	75/63	29500	18600	1.637	35100	18.0	27800	2.227	20200	3.66
		1.7	3.8	80/67	33500	20300	1.673	39200	20.0	27400	2.433	19100	3.30
	10.0	1.7	3.8	85/71	37400	22000	1.708	43200	21.9				
		3.6	8.3	65/55	22700	18200	1.206	26800	18.8	31700	2.075	24600	4.47
		3.6	8.3	70/59	26700	17200	1.240	30900	21.5	31300	2.239	23700	4.09
		3.6	8.3	75/63	30600	19000	1.275	35000	24.0	30800	2.445	22500	3.69
		3.6	8.3	80/67	34600	20700	1.311	39100	26.4	30400	2.650	21400	3.36
		3.6	8.3	85/71	38500	22400	1.347	43100	28.6				
	13.3	6.2	14.2	65/55	23800	18600	0.844	26700	28.2	34700	2.292	26900	4.43
		6.2	14.2	70/59	27700	17600	0.878	30700	31.5	34300	2.457	25900	4.09
		6.2	14.2	75/63	31700	19400	0.914	34800	34.7	33800	2.662	24700	3.72
		6.2	14.2	80/67	35600	21100	0.950	38800	37.5	33400	2.868	23600	3.41
		6.2	14.2	85/71	39600	22800	0.986	43000	40.2				

GRQ – Size 040 (1000 SCFM) – 1st Stage Medium Fan (Continued)

EWT (°F)	GPM	WPD		EAT (°F)	Cooling					Heating			
		PSI	FT of W.C.		Total (Btu/hr)	Sensible (Btu/hr)	Power Input (kW)	THR (Btu/hr)	EER	Total (Btu/hr)	Power Input (kW)	THA (Btu/hr)	COP
70	6.7	1.6	3.8	65/55	20600	17000	1.784	26700	11.5	31200	1.886	24800	4.84
		1.6	3.8	70/59	24500	16100	1.817	30700	13.5	30800	2.051	23800	4.40
		1.6	3.8	75/63	28400	17800	1.853	34700	15.3	30300	2.256	22600	3.93
		1.6	3.8	80/67	32400	19500	1.889	38800	17.2	29900	2.462	21500	3.56
	10.0	1.6	3.8	85/71	36300	21200	1.925	42900	18.9				
		3.5	8.1	65/55	21700	17400	1.422	26600	15.3	34200	2.104	27000	4.76
		3.5	8.1	70/59	25600	16500	1.456	30600	17.6	33800	2.268	26100	4.36
		3.5	8.1	75/63	29500	18200	1.492	34600	19.8	33300	2.474	24900	3.94
		3.5	8.1	80/67	33500	19900	1.528	38700	21.9	32900	2.679	23800	3.60
		3.5	8.1	85/71	37400	21600	1.563	42700	23.9				
		6.1	13.9	65/55	22700	17800	1.061	26300	21.4	37200	2.321	29300	4.69
		6.1	13.9	70/59	26700	16900	1.095	30400	24.4	36800	2.486	28300	4.33
	13.3	6.1	13.9	75/63	30600	18600	1.131	34500	27.1	36300	2.691	27100	3.95
		6.1	13.9	80/67	34600	20300	1.166	38600	29.7	35900	2.897	26000	3.63
		6.1	13.9	85/71	38500	22000	1.202	42600	32.0				
80	6.7	1.6	3.7	65/55	19300	16400	2.025	26200	9.5	33900	1.911	27400	5.19
		1.6	3.7	70/59	23200	15400	2.059	30200	11.3	33500	2.075	26400	4.73
		1.6	3.7	75/63	27200	17100	2.095	34400	13.0	33100	2.281	25300	4.25
		1.6	3.7	80/67	31100	18900	2.130	38400	14.6	32600	2.486	24100	3.84
	10.0	1.6	3.7	85/71	35100	20600	2.166	42500	16.2				
		3.5	7.9	65/55	20400	16800	1.664	26100	12.3	36900	2.128	29600	5.08
		3.5	7.9	70/59	24300	15800	1.698	30100	14.3	36500	2.293	28700	4.66
		3.5	7.9	75/63	28300	17500	1.733	34200	16.3	36100	2.498	27600	4.23
		3.5	7.9	80/67	32200	19300	1.769	38200	18.2	35600	2.704	26400	3.86
		3.5	7.9	85/71	36200	21000	1.805	42400	20.1				
		6.0	13.7	65/55	21500	17200	1.302	25900	16.5	39900	2.346	31900	4.98
		6.0	13.7	70/59	25400	16200	1.336	30000	19.0	39500	2.510	30900	4.61
	13.3	6.0	13.7	75/63	29400	17900	1.372	34100	21.4	39000	2.716	29700	4.20
		6.0	13.7	80/67	33300	19700	1.408	38100	23.7	38600	2.921	28600	3.87
		6.0	13.7	85/71	37200	21400	1.444	42100	25.8				
90	6.7	1.6	3.6	65/55	18000	15800	2.275	25800	7.9	37400	1.930	30800	5.67
		1.6	3.6	70/59	21900	14800	2.308	29800	9.5	37100	2.095	29900	5.19
		1.6	3.6	75/63	25800	16500	2.344	33800	11.0	36600	2.300	28800	4.66
		1.6	3.6	80/67	29800	18300	2.380	37900	12.5	36100	2.506	27500	4.22
	10.0	1.6	3.6	85/71	33700	20000	2.416	41900	13.9				
		3.4	7.8	65/55	19100	16200	1.913	25600	10.0	40400	2.148	33100	5.51
		3.4	7.8	70/59	23000	15200	1.947	29600	11.8	40100	2.312	32200	5.08
		3.4	7.8	75/63	26900	16900	1.983	33700	13.6	39600	2.518	31000	4.60
		3.4	7.8	80/67	30900	18700	2.019	37800	15.3	39100	2.723	29800	4.20
		3.4	7.8	85/71	34800	20400	2.054	41800	16.9				
		5.9	13.4	65/55	20100	16600	1.552	25400	13.0	43400	2.365	35300	5.37
		5.9	13.4	70/59	24100	15600	1.586	29500	15.2	43100	2.530	34500	4.99
	13.3	5.9	13.4	75/63	28000	17300	1.622	33500	17.3	42600	2.735	33300	4.56
		5.9	13.4	80/67	31900	19100	1.657	37600	19.3	42100	2.941	32100	4.19
		5.9	13.4	85/71	35900	20800	1.693	41700	21.2				
100	6.7	1.6	3.6	65/55	16600	15100	2.515	25200	6.6	Operation Not Recommended			
		1.6	3.6	70/59	20500	14200	2.549	29200	8.0				
		1.6	3.6	75/63	24400	15900	2.585	33200	9.4				
		1.6	3.6	80/67	28400	17600	2.621	37300	10.8				
	10.0	1.6	3.6	85/71	32300	19400	2.657	41400	12.2				
		3.4	7.7	65/55	17700	15500	2.154	25100	8.2				
		3.4	7.7	70/59	21600	14600	2.188	29100	9.9				
		3.4	7.7	75/63	25500	16300	2.224	33100	11.5				
		3.4	7.7	80/67	29500	18000	2.260	37200	13.1				
		3.4	7.7	85/71	33400	19800	2.295	41200	14.6				
		5.8	13.3	65/55	18800	16000	1.793	24900	10.5				
		5.8	13.3	70/59	22700	15000	1.827	28900	12.4				
	13.3	5.8	13.3	75/63	26600	16700	1.862	33000	14.3				
		5.8	13.3	80/67	30600	18400	1.898	37100	16.1				
		5.8	13.3	85/71	34500	20200	1.934	41100	17.8				
110	6.7	1.5	3.5	65/55	15300	14400	2.731	24600	5.6				
		1.5	3.5	70/59	19200	13500	2.765	28600	6.9				
		1.5	3.5	75/63	23100	15200	2.801	32700	8.2				
		1.5	3.5	80/67	27100	16900	2.836	36800	9.6				
	10.0	1.5	3.5	85/71	31000	18600	2.872	40800	10.8				
		3.3	7.6	65/55	16300	14800	2.370	24400	6.9				
		3.3	7.6	70/59	20300	13900	2.404	28500	8.4				
		3.3	7.6	75/63	24200	15600	2.439	32500	9.9				
		3.3	7.6	80/67	28100	17300	2.475	36500	11.4				
		3.3	7.6	85/71	32100	19000	2.511	40700	12.8				
		5.7	13.1	65/55	17400	15200	2.008	24300	8.7				
		5.7	13.1	70/59	21300	14300	2.042	28300	10.4				
	13.3	5.7	13.1	75/63	25300	16000	2.078	32400	12.2				
		5.7	13.1	80/67	29200	17700	2.114	36400	13.8				
		5.7	13.1	85/71	33200	19400	2.150	40500	15.4				

GRQ – Size 040 (800 SCFM) – 1st Stage Low Fan

EWT (°F)	GPM	WPD		EAT (°F)	Cooling					Heating			
		PSI	FT of W.C.		Total (Btu/hr)	Sensible (Btu/hr)	Power Input (kW)	THR (Btu/hr)	EER	Total (Btu/hr)	Power Input (kW)	THA (Btu/hr)	COP
20	6.7	1.9	4.3	65/55	Operation Not Recommended					13400	1.711	7600	2.29
		1.9	4.3	70/59						13000	1.875	6600	2.03
		1.9	4.3	75/63						12500	2.081	5400	1.76
		1.9	4.3	80/67						12100	2.286	4300	1.55
	10.0	1.9	4.3	85/71						16400	1.928	9800	2.49
		4.1	9.2	65/55						16000	2.093	8900	2.24
		4.1	9.2	70/59						15500	2.298	7700	1.98
		4.1	9.2	75/63						15100	2.504	6600	1.77
		4.1	9.2	80/67						19400	2.146	12100	2.65
		4.1	9.2	85/71						19000	2.310	11100	2.41
	13.3	7.0	15.9	65/55						18500	2.516	9900	2.15
		7.0	15.9	70/59						18100	2.721	8800	1.95
		7.0	15.9	75/63									
		7.0	15.9	80/67									
		7.0	15.9	85/71									
30	6.7	1.8	4.2	65/55						17200	1.795	11100	2.81
		1.8	4.2	70/59	22700	13200	1.240	26900	18.3	16800	1.959	10100	2.51
		1.8	4.2	75/63	26700	14900	1.276	31100	20.9	16300	2.165	8900	2.20
		1.8	4.2	80/67	30600	16600	1.311	35100	23.3	15900	2.370	7800	1.96
	10.0	1.8	4.2	85/71	34600	18300	1.347	39200	25.7				
		3.9	9.0	65/55	19900	14500	0.845	22800	23.6	20200	2.012	13300	2.94
		3.9	9.0	70/59	23800	13600	0.878	26800	27.1	19800	2.177	12400	2.66
		3.9	9.0	75/63	27800	15300	0.914	30900	30.4	19300	2.382	11200	2.37
		3.9	9.0	80/67	31700	17000	0.950	34900	33.4	18900	2.588	10100	2.14
	13.3	3.9	9.0	85/71	35700	18700	0.986	39100	36.2				
		6.8	15.4	65/55	21000	14900	0.483	22600	43.5	23200	2.230	15600	3.05
		6.8	15.4	70/59	24900	14000	0.517	26700	48.2	22800	2.394	14600	2.79
		6.8	15.4	75/63	28900	15700	0.553	30800	52.3	22300	2.600	13400	2.51
		6.8	15.4	80/67	32800	17400	0.589	34800	55.7	21900	2.805	12300	2.29
		6.8	15.4	85/71	36700	19100	0.624	38800	58.8				
40	6.7	1.8	4.0	65/55	20900	15600	1.271	25200	16.4	20800	1.872	14400	3.25
		1.8	4.0	70/59	24800	14700	1.305	29300	19.0	20500	2.037	13500	2.95
		1.8	4.0	75/63	28800	16400	1.341	33400	21.5	20000	2.242	12300	2.61
		1.8	4.0	80/67	32700	18100	1.377	37400	23.7	19500	2.448	11100	2.33
	10.0	1.8	4.0	85/71	36700	19800	1.413	41500	26.0				
		3.8	8.7	65/55	22000	16000	0.910	25100	24.2	23800	2.090	16700	3.33
		3.8	8.7	70/59	25900	15100	0.944	29100	27.4	23500	2.254	15800	3.05
		3.8	8.7	75/63	29900	16800	0.980	33200	30.5	23000	2.460	14600	2.74
		3.8	8.7	80/67	33800	18500	1.015	37300	33.3	22500	2.665	13400	2.47
	13.3	3.8	8.7	85/71	37800	20200	1.051	41400	36.0				
		6.6	15.0	65/55	23100	16400	0.549	25000	42.1	26800	2.307	18900	3.40
		6.6	15.0	70/59	27000	15500	0.582	29000	46.4	26500	2.472	18100	3.14
		6.6	15.0	75/63	31000	17200	0.618	33100	50.2	26000	2.677	16900	2.84
		6.6	15.0	80/67	34900	18900	0.654	37100	53.4	25500	2.883	15700	2.59
		6.6	15.0	85/71	38800	20700	0.690	41200	56.2				
50	6.7	1.7	3.9	65/55	21600	16000	1.393	26400	15.5	24300	1.944	17700	3.66
		1.7	3.9	70/59	25500	15100	1.427	30400	17.9	23900	2.108	16700	3.32
		1.7	3.9	75/63	29400	16800	1.463	34400	20.1	23500	2.314	15600	2.97
		1.7	3.9	80/67	33400	18500	1.498	38500	22.3	23000	2.519	14400	2.67
	10.0	1.7	3.9	85/71	37300	20200	1.534	42500	24.3				
		3.7	8.5	65/55	22700	16400	1.032	26200	22.0	27300	2.161	19900	3.70
		3.7	8.5	70/59	26600	15500	1.066	30200	25.0	26900	2.326	19000	3.39
		3.7	8.5	75/63	30500	17200	1.101	34300	27.7	26500	2.531	17900	3.07
		3.7	8.5	80/67	34500	18900	1.137	38400	30.3	26000	2.737	16700	2.78
	13.3	3.7	8.5	85/71	38400	20600	1.173	42400	32.7				
		6.4	14.6	65/55	23700	16800	0.670	26000	35.4	30300	2.379	22200	3.73
		6.4	14.6	70/59	27700	15900	0.704	30100	39.3	29900	2.543	21200	3.44
		6.4	14.6	75/63	31600	17600	0.740	34100	42.7	29500	2.749	20100	3.14
		6.4	14.6	80/67	35500	19300	0.776	38100	45.7	29000	2.954	18900	2.87
		6.4	14.6	85/71	39500	21000	0.812	42300	48.6				
60	6.7	1.7	3.8	65/55	21100	15500	1.559	26400	13.5	27600	2.008	20700	4.02
		1.7	3.8	70/59	25000	14600	1.593	30400	15.7	27300	2.173	19900	3.68
		1.7	3.8	75/63	28900	16300	1.629	34500	17.7	26800	2.378	18700	3.30
		1.7	3.8	80/67	32900	18000	1.665	38600	19.8	26300	2.584	17500	2.98
	10.0	1.7	3.8	85/71	36800	19700	1.700	42600	21.6				
		3.6	8.3	65/55	22100	15900	1.198	26200	18.4	30600	2.226	23000	4.03
		3.6	8.3	70/59	26100	15000	1.232	30300	21.2	30300	2.390	22100	3.71
		3.6	8.3	75/63	30000	16700	1.267	34300	23.7	29800	2.596	20900	3.36
		3.6	8.3	80/67	33900	18400	1.303	38300	26.0	29300	2.802	19700	3.06
	13.3	3.6	8.3	85/71	37900	20100	1.339	42500	28.3				
		6.2	14.2	65/55	23200	16300	0.836	26100	27.8	33600	2.444	25300	4.03
		6.2	14.2	70/59	27100	15400	0.870	30100	31.1	33300	2.608	24400	3.74
		6.2	14.2	75/63	31100	17100	0.906	34200	34.3	32800	2.814	23200	3.41
		6.2	14.2	80/67	35000	18800	0.942	38200	37.2	32300	3.019	22000	3.13
		6.2	14.2	85/71	39000	20500	0.978	42300	39.9				

GRQ – Size 040 (800 SCFM) – 1st Stage Low Fan (Continued)

EWT (°F)	GPM	WPD		EAT (°F)	Cooling					Heating			
		PSI	FT of W.C.		Total (Btu/hr)	Sensible (Btu/hr)	Power Input (kW)	THR (Btu/hr)	EER	Total (Btu/hr)	Power Input (kW)	THA (Btu/hr)	COP
70	6.7	1.6	3.8	65/55	19700	14400	1.758	25700	11.2	30800	2.067	23700	4.36
		1.6	3.8	70/59	23600	13400	1.791	29700	13.2	30400	2.231	22800	3.99
		1.6	3.8	75/63	27500	15100	1.827	33700	15.1	30000	2.437	21700	3.60
		1.6	3.8	80/67	31500	16900	1.863	37900	16.9	29500	2.642	20500	3.27
	10.0	1.6	3.8	85/71	35400	18600	1.899	41900	18.6				
		3.5	8.1	65/55	20800	14800	1.396	25600	14.9	33800	2.284	26000	4.33
		3.5	8.1	70/59	24700	13800	1.430	29600	17.3	33400	2.449	25000	3.99
		3.5	8.1	75/63	28600	15500	1.466	33600	19.5	33000	2.654	23900	3.64
		3.5	8.1	80/67	32600	17300	1.502	37700	21.7	32500	2.860	22700	3.33
		3.5	8.1	85/71	36500	19000	1.537	41700	23.7				
		6.1	13.9	65/55	21800	15200	1.035	25300	21.1	36800	2.502	28300	4.31
		6.1	13.9	70/59	25800	14200	1.069	29400	24.1	36400	2.666	27300	4.00
	13.3	6.1	13.9	75/63	29700	15900	1.105	33500	26.9	36000	2.872	26200	3.67
		6.1	13.9	80/67	33600	17700	1.140	37500	29.5	35500	3.077	25000	3.38
		6.1	13.9	85/71	37600	19400	1.176	41600	32.0				
80	6.7	1.6	3.7	65/55	17700	12800	1.976	24400	9.0	33800	2.119	26600	4.67
		1.6	3.7	70/59	21600	11800	2.010	28500	10.7	33400	2.283	25600	4.28
		1.6	3.7	75/63	25600	13500	2.046	32600	12.5	33000	2.489	24500	3.88
		1.6	3.7	80/67	29500	15200	2.082	36600	14.2	32500	2.694	23300	3.53
	10.0	1.6	3.7	85/71	33500	17000	2.118	40700	15.8				
		3.5	7.9	65/55	18800	13200	1.615	24300	11.6	36800	2.336	28800	4.61
		3.5	7.9	70/59	22700	12200	1.649	28300	13.8	36400	2.501	27900	4.26
		3.5	7.9	75/63	26600	13900	1.685	32400	15.8	36000	2.706	26800	3.90
		3.5	7.9	80/67	30600	15600	1.721	36500	17.8	35500	2.912	25600	3.57
		3.5	7.9	85/71	34500	17400	1.756	40500	19.6				
		6.0	13.7	65/55	19900	13600	1.254	24200	15.9	39800	2.554	31100	4.56
		6.0	13.7	70/59	23800	12600	1.288	28200	18.5	39400	2.718	30100	4.24
	13.3	6.0	13.7	75/63	27700	14300	1.323	32200	20.9	39000	2.924	29000	3.91
		6.0	13.7	80/67	31700	16000	1.359	36300	23.3	38500	3.129	27800	3.60
		6.0	13.7	85/71	35600	17800	1.395	40400	25.5				
90	6.7	1.6	3.6	65/55	15500	10900	2.204	23000	7.0	36700	2.164	29300	4.97
		1.6	3.6	70/59	19400	10000	2.238	27000	8.7	36300	2.329	28400	4.56
		1.6	3.6	75/63	23300	11700	2.273	31100	10.3	35800	2.534	27200	4.14
		1.6	3.6	80/67	27300	13400	2.309	35200	11.8	35300	2.740	25900	3.77
	10.0	1.6	3.6	85/71	31200	15100	2.345	39200	13.3				
		3.4	7.8	65/55	16500	11300	1.842	22800	9.0	39700	2.382	31600	4.88
		3.4	7.8	70/59	20500	10400	1.876	26900	10.9	39300	2.546	30600	4.52
		3.4	7.8	75/63	24400	12100	1.912	30900	12.8	38800	2.752	29400	4.13
		3.4	7.8	80/67	28300	13800	1.948	34900	14.5	38300	2.957	28200	3.79
		3.4	7.8	85/71	32300	15500	1.984	39100	16.3				
		5.9	13.4	65/55	17600	11700	1.481	22700	11.9	42700	2.599	33800	4.81
		5.9	13.4	70/59	21500	10800	1.515	26700	14.2	42300	2.764	32900	4.48
	13.3	5.9	13.4	75/63	25500	12500	1.551	30800	16.4	41800	2.969	31700	4.12
		5.9	13.4	80/67	29400	14200	1.586	34800	18.5	41300	3.175	30500	3.81
		5.9	13.4	85/71	33400	15900	1.622	38900	20.6				
100	6.7	1.6	3.6	65/55	13200	9100	2.427	21500	5.4	Operation Not Recommended			
		1.6	3.6	70/59	17100	8100	2.461	25500	6.9				
		1.6	3.6	75/63	21100	9900	2.497	29600	8.5				
		1.6	3.6	80/67	25000	11600	2.533	33600	9.9				
	10.0	1.6	3.6	85/71	29000	13300	2.569	37800	11.3				
		3.4	7.7	65/55	14300	9500	2.066	21400	6.9				
		3.4	7.7	70/59	18200	8500	2.100	25400	8.7				
		3.4	7.7	75/63	22200	10300	2.136	29500	10.4				
		3.4	7.7	80/67	26100	12000	2.171	33500	12.0				
		3.4	7.7	85/71	30000	13700	2.207	37500	13.6				
		5.8	13.3	65/55	15400	9900	1.705	21200	9.0				
		5.8	13.3	70/59	19300	9000	1.739	25200	11.1				
	13.3	5.8	13.3	75/63	23200	10700	1.774	29300	13.1				
		5.8	13.3	80/67	27200	12400	1.810	33400	15.0				
		5.8	13.3	85/71	31100	14100	1.846	37400	16.8				
110	6.7	1.5	3.5	65/55	11300	7500	2.635	20300	4.3				
		1.5	3.5	70/59	15200	6600	2.669	24300	5.7				
		1.5	3.5	75/63	19100	8300	2.705	28300	7.1				
		1.5	3.5	80/67	23100	10000	2.741	32500	8.4				
	10.0	1.5	3.5	85/71	27000	11700	2.777	36500	9.7				
		3.3	7.6	65/55	12400	7900	2.274	20200	5.5				
		3.3	7.6	70/59	16300	7000	2.308	24200	7.1				
		3.3	7.6	75/63	20200	8700	2.344	28200	8.6				
		3.3	7.6	80/67	24200	10400	2.379	32300	10.2				
		3.3	7.6	85/71	28100	12100	2.415	36300	11.6				
		5.7	13.1	65/55	13400	8300	1.913	19900	7.0				
		5.7	13.1	70/59	17400	7400	1.947	24000	8.9				
	13.3	5.7	13.1	75/63	21300	9100	1.982	28100	10.7				
		5.7	13.1	80/67	25200	10800	2.018	32100	12.5				
		5.7	13.1	85/71	29200	12500	2.054	36200	14.2				

GRQ – Size 048 (1500 SCFM) – 2nd Stage High Fan

EWT (°F)	GPM	WPD		EAT (°F)	Cooling					Heating			
		PSI	FT of W.C.		Total (Btu/hr)	Sensible (Btu/hr)	Power Input (kW)	THR (Btu/hr)	EER	Total (Btu/hr)	Power Input (kW)	THA (Btu/hr)	COP
20	8.0	3.6	8.1	65/55	Operation Not Recommended					29400	2.685	20200	3.21
		3.6	8.1	70/59						29100	2.833	19400	3.01
		3.6	8.1	75/63						28700	2.981	18500	2.82
		3.6	8.1	80/67						28400	3.129	17700	2.66
		3.6	8.1	85/71									
	12.0	7.7	17.5	65/55						32000	2.873	22200	3.26
		7.7	17.5	70/59						31700	3.021	21400	3.07
		7.7	17.5	75/63						31300	3.169	20500	2.89
		7.7	17.5	80/67						31000	3.317	19700	2.74
		7.7	17.5	85/71									
	16.0	13.3	30.3	65/55						34600	3.061	24200	3.31
		13.3	30.3	70/59						34300	3.209	23300	3.13
		13.3	30.3	75/63						33900	3.357	22400	2.96
		13.3	30.3	80/67						33600	3.505	21600	2.81
		13.3	30.3	85/71									
30	8.0	3.4	7.8	65/55						34600	2.834	24900	3.57
		3.4	7.8	70/59	52800	35600	2.086	59900	25.3	34200	2.982	24000	3.36
		3.4	7.8	75/63	56700	36900	2.106	63900	26.9	33900	3.130	23200	3.17
		3.4	7.8	80/67	60600	38300	2.125	67900	28.5	33600	3.278	22400	3.00
		3.4	7.8	85/71	64400	39700	2.144	71700	30.0				
	12.0	7.4	17.0	65/55	49200	34300	2.005	56000	24.5	37200	3.022	26900	3.60
		7.4	17.0	70/59	53000	35700	2.024	59900	26.2	36800	3.170	26000	3.40
		7.4	17.0	75/63	56900	37000	2.044	63900	27.8	36500	3.318	25200	3.22
		7.4	17.0	80/67	60800	38400	2.063	67800	29.5	36100	3.466	24300	3.05
		7.4	17.0	85/71	64700	39800	2.082	71800	31.1				
	16.0	12.8	29.3	65/55	49400	34400	1.943	56000	25.4	39700	3.210	28700	3.62
		12.8	29.3	70/59	53300	35800	1.962	60000	27.2	39400	3.358	27900	3.44
		12.8	29.3	75/63	57200	37100	1.982	64000	28.9	39100	3.506	27100	3.27
		12.8	29.3	80/67	61100	38500	2.001	67900	30.5	38700	3.654	26200	3.10
		12.8	29.3	85/71	65000	39900	2.020	71900	32.2				
40	8.0	3.3	7.6	65/55	47000	33400	2.149	54300	21.9	39700	2.983	29500	3.90
		3.3	7.6	70/59	50900	34700	2.169	58300	23.5	39400	3.131	28700	3.68
		3.3	7.6	75/63	54800	36100	2.188	62300	25.0	39000	3.279	27800	3.48
		3.3	7.6	80/67	58600	37500	2.207	66100	26.6	38700	3.427	27000	3.31
		3.3	7.6	85/71	62500	38800	2.227	70100	28.1				
	12.0	7.2	16.5	65/55	47300	33500	2.087	54400	22.7	42300	3.171	31500	3.91
		7.2	16.5	70/59	51100	34800	2.107	58300	24.3	42000	3.319	30700	3.71
		7.2	16.5	75/63	55000	36200	2.126	62300	25.9	41600	3.467	29800	3.51
		7.2	16.5	80/67	58900	37600	2.145	66200	27.5	41300	3.615	29000	3.35
		7.2	16.5	85/71	62800	38900	2.165	70200	29.0				
	16.0	12.5	28.5	65/55	47500	33600	2.025	54400	23.5	44900	3.359	33400	3.91
		12.5	28.5	70/59	51400	34900	2.045	58400	25.1	44500	3.507	32500	3.72
		12.5	28.5	75/63	55300	36300	2.064	62300	26.8	44200	3.655	31700	3.54
		12.5	28.5	80/67	59200	37700	2.083	66300	28.4	43900	3.803	30900	3.38
		12.5	28.5	85/71	63100	39000	2.102	70300	30.0				
50	8.0	3.3	7.4	65/55	45000	32500	2.302	52900	19.5	44800	3.132	34100	4.19
		3.3	7.4	70/59	48900	33900	2.321	56800	21.1	44500	3.280	33300	3.97
		3.3	7.4	75/63	52800	35300	2.340	60800	22.6	44200	3.428	32500	3.78
		3.3	7.4	80/67	56700	36600	2.359	64800	24.0	43800	3.576	31600	3.59
		3.3	7.4	85/71	60600	38000	2.379	68700	25.5				
	12.0	7.0	16.0	65/55	45300	32600	2.239	52900	20.2	47400	3.320	36100	4.18
		7.0	16.0	70/59	49200	34000	2.259	56900	21.8	47100	3.468	35300	3.98
		7.0	16.0	75/63	53100	35400	2.278	60900	23.3	46800	3.616	34500	3.79
		7.0	16.0	80/67	57000	36700	2.297	64800	24.8	46400	3.764	33600	3.61
		7.0	16.0	85/71	60800	38100	2.317	68700	26.2				
	16.0	12.1	27.7	65/55	45600	32700	2.177	53000	20.9	50000	3.508	38000	4.17
		12.1	27.7	70/59	49500	34100	2.197	57000	22.5	49700	3.656	37200	3.98
		12.1	27.7	75/63	53300	35500	2.216	60900	24.1	49400	3.804	36400	3.80
		12.1	27.7	80/67	57200	36800	2.235	64800	25.6	49000	3.952	35500	3.63
		12.1	27.7	85/71	61100	38200	2.255	68800	27.1				
60	8.0	3.2	7.2	65/55	43000	31700	2.524	51600	17.0	50000	3.281	38800	4.46
		3.2	7.2	70/59	46900	33100	2.543	55600	18.4	49600	3.429	37900	4.24
		3.2	7.2	75/63	50800	34400	2.562	59500	19.8	49300	3.577	37100	4.04
		3.2	7.2	80/67	54700	35800	2.582	63500	21.2	49000	3.725	36300	3.85
		3.2	7.2	85/71	58600	37200	2.601	67500	22.5				
	12.0	6.9	15.6	65/55	43300	31800	2.462	51700	17.6	52600	3.469	40800	4.44
		6.9	15.6	70/59	47200	33200	2.481	55700	19.0	52200	3.617	39900	4.23
		6.9	15.6	75/63	51100	34500	2.500	59600	20.4	51900	3.765	39100	4.04
		6.9	15.6	80/67	55000	35900	2.519	63600	21.8	51600	3.913	38200	3.86
		6.9	15.6	85/71	58800	37300	2.539	67500	23.2				
	16.0	11.8	27.0	65/55	43600	31900	2.399	51800	18.2	55200	3.657	42700	4.42
		11.8	27.0	70/59	47400	33300	2.419	55700	19.6	54800	3.805	41800	4.22
		11.8	27.0	75/63	51300	34600	2.438	59600	21.0	54500	3.953	41000	4.04
		11.8	27.0	80/67	55200	36000	2.457	63600	22.5	54200	4.101	40200	3.87
		11.8	27.0	85/71	59100	37400	2.477	67600	23.9				

GRQ – Size 048 (1500 SCFM) – 2nd Stage High Fan (Continued)

EWT (°F)	GPM	WPD		EAT (°F)	Cooling					Heating			
		PSI	FT of W.C.		Total (Btu/hr)	Sensible (Btu/hr)	Power Input (kW)	THR (Btu/hr)	EER	Total (Btu/hr)	Power Input (kW)	THA (Btu/hr)	COP
70	8.0	3.1	7.1	65/55	41000	30900	2.816	50600	14.6	55100	3.430	43400	4.70
		3.1	7.1	70/59	44900	32200	2.835	54600	15.8	54800	3.578	42600	4.48
		3.1	7.1	75/63	48700	33600	2.854	58400	17.1	54500	3.726	41800	4.28
		3.1	7.1	80/67	52600	35000	2.874	62400	18.3	54100	3.874	40900	4.09
		3.1	7.1	85/71	56500	36300	2.893	66400	19.5				
	12.0	6.7	15.3	65/55	41200	31000	2.754	50600	15.0	57700	3.618	45400	4.67
		6.7	15.3	70/59	45100	32300	2.773	54600	16.3	57400	3.766	44500	4.46
		6.7	15.3	75/63	49000	33700	2.792	58500	17.6	57000	3.914	43600	4.26
		6.7	15.3	80/67	52900	35100	2.811	62500	18.8	56700	4.062	42800	4.09
		6.7	15.3	85/71	56800	36400	2.831	66500	20.1				
	16.0	11.6	26.5	65/55	41500	31100	2.691	50700	15.4	60300	3.806	47300	4.64
		11.6	26.5	70/59	45400	32400	2.711	54700	16.7	60000	3.954	46500	4.44
		11.6	26.5	75/63	49300	33800	2.730	58600	18.1	59600	4.102	45600	4.25
		11.6	26.5	80/67	53200	35200	2.749	62600	19.4	59300	4.250	44800	4.09
		11.6	26.5	85/71	57000	36500	2.769	66500	20.6				
80	8.0	3.0	7.0	65/55	38900	30000	3.178	49700	12.2	60300	3.579	48100	4.93
		3.0	7.0	70/59	42700	31400	3.197	53600	13.4	59900	3.727	47200	4.71
		3.0	7.0	75/63	46600	32800	3.216	57600	14.5	59600	3.875	46400	4.50
		3.0	7.0	80/67	50500	34100	3.236	61500	15.6	59300	4.023	45600	4.32
		3.0	7.0	85/71	54400	35500	3.255	65500	16.7				
	12.0	6.6	15.0	65/55	39100	30100	3.115	49700	12.6	62900	3.767	50000	4.89
		6.6	15.0	70/59	43000	31500	3.135	53700	13.7	62500	3.915	49100	4.67
		6.6	15.0	75/63	46900	32900	3.154	57700	14.9	62200	4.063	48300	4.48
		6.6	15.0	80/67	50800	34200	3.173	61600	16.0	61900	4.211	47500	4.30
		6.6	15.0	85/71	54700	35600	3.193	65600	17.1				
	16.0	11.4	26.0	65/55	39400	30200	3.053	49800	12.9	65500	3.955	52000	4.85
		11.4	26.0	70/59	43300	31600	3.073	53800	14.1	65100	4.103	51100	4.65
		11.4	26.0	75/63	47200	33000	3.092	57800	15.3	64800	4.251	50300	4.46
		11.4	26.0	80/67	51000	34300	3.111	61600	16.4	64400	4.399	49400	4.29
		11.4	26.0	85/71	54900	35700	3.131	65600	17.5				
90	8.0	3.0	6.8	65/55	36700	29200	3.609	49000	10.2	65400	3.728	52700	5.14
		3.0	6.8	70/59	40600	30600	3.629	53000	11.2	65100	3.876	51900	4.92
		3.0	6.8	75/63	44500	31900	3.648	57000	12.2	64700	4.024	51000	4.71
		3.0	6.8	80/67	48400	33300	3.667	60900	13.2	64400	4.172	50200	4.52
		3.0	6.8	85/71	52200	34700	3.687	64800	14.2				
	12.0	6.5	14.8	65/55	37000	29300	3.547	49100	10.4	68000	3.916	54600	5.08
		6.5	14.8	70/59	40800	30700	3.567	53000	11.4	67700	4.064	53800	4.88
		6.5	14.8	75/63	44700	32000	3.586	56900	12.5	67300	4.212	52900	4.68
		6.5	14.8	80/67	48600	33400	3.605	60900	13.5	67000	4.360	52100	4.50
		6.5	14.8	85/71	52500	34800	3.625	64900	14.5				
	16.0	11.2	25.5	65/55	37200	29400	3.485	49100	10.7	70600	4.104	56600	5.04
		11.2	25.5	70/59	41100	30800	3.505	53100	11.7	70300	4.252	55800	4.84
		11.2	25.5	75/63	45000	32100	3.524	57000	12.8	69900	4.400	54900	4.65
		11.2	25.5	80/67	48900	33500	3.543	61000	13.8	69600	4.548	54100	4.48
		11.2	25.5	85/71	52800	34900	3.563	65000	14.8				
100	8.0	3.0	6.7	65/55	34500	28300	4.111	48500	8.4				
		3.0	6.7	70/59	38400	29700	4.131	52500	9.3				
		3.0	6.7	75/63	42300	31100	4.150	56500	10.2				
		3.0	6.7	80/67	46100	32500	4.169	60300	11.1				
		3.0	6.7	85/71	50000	33800	4.189	64300	11.9				
	12.0	6.4	14.6	65/55	34700	28500	4.049	48500	8.6				
		6.4	14.6	70/59	38600	29800	4.069	52500	9.5				
		6.4	14.6	75/63	42500	31200	4.088	56500	10.4				
		6.4	14.6	80/67	46400	32600	4.107	60400	11.3				
		6.4	14.6	85/71	50300	33900	4.127	64400	12.2				
	16.0	11.0	25.2	65/55	35000	28600	3.987	48600	8.8				
		11.0	25.2	70/59	38900	29900	4.006	52600	9.7				
		11.0	25.2	75/63	42800	31300	4.026	56500	10.6				
		11.0	25.2	80/67	46700	32700	4.045	60500	11.5				
		11.0	25.2	85/71	50600	34000	4.064	64500	12.5				
110	8.0	2.9	6.7	65/55	32200	27500	4.683	48200	6.9				
		2.9	6.7	70/59	36100	28900	4.702	52100	7.7				
		2.9	6.7	75/63	40000	30200	4.722	56100	8.5				
		2.9	6.7	80/67	43900	31600	4.741	60100	9.3				
		2.9	6.7	85/71	47800	33000	4.760	64000	10.0				
	12.0	6.3	14.4	65/55	32500	27600	4.621	48300	7.0				
		6.3	14.4	70/59	36400	29000	4.640	52200	7.8				
		6.3	14.4	75/63	40300	30400	4.660	56200	8.6				
		6.3	14.4	80/67	44100	31700	4.679	60100	9.4				
		6.3	14.4	85/71	48000	33100	4.698	64000	10.2				
	16.0	10.9	24.9	65/55	32700	27700	4.559	48300	7.2				
		10.9	24.9	70/59	36600	29100	4.578	52200	8.0				
		10.9	24.9	75/63	40500	30500	4.598	56200	8.8				
		10.9	24.9	80/67	44400	31800	4.617	60200	9.6				
		10.9	24.9	85/71	48300	33200	4.636	64100	10.4				

Operation Not Recommended

GRQ – Size 048 (1050 SCFM) – 1st Stage Medium Fan

EWT (°F)	GPM	WPD		EAT (°F)	Cooling					Heating			
		PSI	FT of W.C.		Total (Btu/hr)	Sensible (Btu/hr)	Power Input (kW)	THR (Btu/hr)	EER	Total (Btu/hr)	Power Input (kW)	THA (Btu/hr)	COP
20	8.0	3.6	8.1	65/55	Operation Not Recommended					20200	2.105	13000	2.81
		3.6	8.1	70/59						19900	2.253	12200	2.59
		3.6	8.1	75/63						19500	2.401	11300	2.38
		3.6	8.1	80/67						19200	2.549	10500	2.21
		3.6	8.1	85/71									
	12.0	7.7	17.5	65/55						22500	2.150	15200	3.06
		7.7	17.5	70/59						22200	2.298	14400	2.83
		7.7	17.5	75/63						21800	2.446	13500	2.61
		7.7	17.5	80/67						21500	2.594	12600	2.43
		7.7	17.5	85/71									
	16.0	13.3	30.3	65/55						24800	2.195	17300	3.31
		13.3	30.3	70/59						24500	2.343	16500	3.06
		13.3	30.3	75/63						24100	2.491	15600	2.83
		13.3	30.3	80/67						23800	2.639	14800	2.64
		13.3	30.3	85/71									
30	8.0	3.4	7.8	65/55						23600	2.153	16300	3.21
		3.4	7.8	70/59	37700	26400	1.164	41700	32.4	23300	2.301	15400	2.97
		3.4	7.8	75/63	40800	27400	1.184	44800	34.5	22900	2.449	14500	2.74
		3.4	7.8	80/67	44000	28400	1.203	48100	36.6	22600	2.597	13700	2.55
		3.4	7.8	85/71	47200	29500	1.222	51400	38.6				
	12.0	7.4	17.0	65/55	34800	25400	1.083	38500	32.1	25900	2.198	18400	3.45
		7.4	17.0	70/59	38000	26500	1.102	41800	34.5	25600	2.346	17600	3.20
		7.4	17.0	75/63	41100	27500	1.122	44900	36.6	25200	2.494	16700	2.96
		7.4	17.0	80/67	44300	28500	1.141	48200	38.8	24900	2.642	15900	2.76
		7.4	17.0	85/71	47400	29600	1.160	51400	40.9				
	16.0	12.8	29.3	65/55	35100	25600	1.021	38600	34.4	28200	2.243	20500	3.68
		12.8	29.3	70/59	38200	26600	1.040	41700	36.7	27900	2.391	19700	3.42
		12.8	29.3	75/63	41400	27600	1.060	45000	39.1	27500	2.539	18800	3.17
		12.8	29.3	80/67	44500	28700	1.079	48200	41.2	27200	2.687	18000	2.96
		12.8	29.3	85/71	47700	29700	1.098	51400	43.4				
40	8.0	3.3	7.6	65/55	33200	23300	1.289	37600	25.8	27000	2.201	19500	3.59
		3.3	7.6	70/59	36300	24400	1.308	40800	27.8	26700	2.349	18700	3.33
		3.3	7.6	75/63	39500	25400	1.327	44000	29.8	26300	2.497	17800	3.08
		3.3	7.6	80/67	42600	26400	1.347	47200	31.6	26000	2.645	17000	2.88
		3.3	7.6	85/71	45800	27500	1.366	50500	33.5				
	12.0	7.2	16.5	65/55	33400	23400	1.227	37600	27.2	29300	2.246	21600	3.82
		7.2	16.5	70/59	36600	24500	1.246	40900	29.4	29000	2.394	20800	3.55
		7.2	16.5	75/63	39700	25500	1.265	44000	31.4	28600	2.542	19900	3.29
		7.2	16.5	80/67	42900	26500	1.285	47300	33.4	28300	2.690	19100	3.08
		7.2	16.5	85/71	46100	27600	1.304	50600	35.4				
	16.0	12.5	28.5	65/55	33700	23600	1.165	37700	28.9	31600	2.291	23800	4.04
		12.5	28.5	70/59	36900	24600	1.184	40900	31.2	31300	2.439	23000	3.76
		12.5	28.5	75/63	40000	25600	1.203	44100	33.3	30900	2.587	22100	3.50
		12.5	28.5	80/67	43200	26700	1.222	47400	35.4	30600	2.735	21300	3.28
		12.5	28.5	85/71	46300	27700	1.242	50500	37.3				
50	8.0	3.3	7.4	65/55	31700	21700	1.433	36600	22.1	30400	2.249	22700	3.96
		3.3	7.4	70/59	34800	22700	1.453	39800	24.0	30100	2.397	21900	3.68
		3.3	7.4	75/63	38000	23700	1.472	43000	25.8	29700	2.545	21000	3.42
		3.3	7.4	80/67	41200	24800	1.491	46300	27.6	29400	2.693	20200	3.20
		3.3	7.4	85/71	44300	25800	1.511	49500	29.3				
	12.0	7.0	16.0	65/55	32000	21800	1.371	36700	23.3	32700	2.294	24900	4.17
		7.0	16.0	70/59	35100	22800	1.391	39800	25.2	32400	2.442	24100	3.88
		7.0	16.0	75/63	38300	23800	1.410	43100	27.2	32000	2.590	23200	3.62
		7.0	16.0	80/67	41400	24900	1.429	46300	29.0	31700	2.738	22400	3.39
		7.0	16.0	85/71	44600	25900	1.449	49500	30.8				
	16.0	12.1	27.7	65/55	32200	21900	1.309	36700	24.6	35000	2.339	27000	4.38
		12.1	27.7	70/59	35400	22900	1.329	39900	26.6	34700	2.487	26200	4.09
		12.1	27.7	75/63	38500	24000	1.348	43100	28.6	34300	2.635	25300	3.81
		12.1	27.7	80/67	41700	25000	1.367	46400	30.5	34000	2.783	24500	3.58
		12.1	27.7	85/71	44800	26000	1.387	49500	32.3				
60	8.0	3.2	7.2	65/55	30100	20300	1.598	35600	18.8	33800	2.297	26000	4.31
		3.2	7.2	70/59	33300	21400	1.617	38800	20.6	33500	2.445	25200	4.01
		3.2	7.2	75/63	36400	22400	1.637	42000	22.2	33100	2.593	24300	3.74
		3.2	7.2	80/67	39600	23400	1.656	45300	23.9	32800	2.741	23400	3.50
		3.2	7.2	85/71	42700	24500	1.675	48400	25.5				
	12.0	6.9	15.6	65/55	30400	20400	1.536	35600	19.8	36100	2.342	28100	4.51
		6.9	15.6	70/59	33500	21500	1.555	38800	21.5	35700	2.490	27200	4.20
		6.9	15.6	75/63	36700	22500	1.575	42100	23.3	35400	2.638	26400	3.93
		6.9	15.6	80/67	39800	23500	1.594	45200	25.0	35100	2.786	25600	3.69
		6.9	15.6	85/71	43000	24600	1.613	48500	26.7				
	16.0	11.8	27.0	65/55	30600	20600	1.474	35600	20.8	38400	2.387	30300	4.71
		11.8	27.0	70/59	33800	21600	1.493	38900	22.6	38000	2.535	29300	4.39
		11.8	27.0	75/63	36900	22600	1.513	42100	24.4	37700	2.683	28500	4.11
		11.8	27.0	80/67	40100	23700	1.532	45300	26.2	37400	2.831	27700	3.87
		11.8	27.0	85/71	43300	24700	1.551	48600	27.9				

GRQ – Size 048 (1050 SCFM) – 1st Stage Medium Fan (Continued)

EWT (°F)	GPM	WPD		EAT (°F)	Cooling					Heating			
		PSI	FT of W.C.		Total (Btu/hr)	Sensible (Btu/hr)	Power Input (kW)	THR (Btu/hr)	EER	Total (Btu/hr)	Power Input (kW)	THA (Btu/hr)	COP
70	8.0	3.1	7.1	65/55	28500	19300	1.801	34600	15.8	37200	2.345	29200	4.65
		3.1	7.1	70/59	31600	20400	1.820	37800	17.4	36800	2.493	28300	4.32
		3.1	7.1	75/63	34800	21400	1.840	41100	18.9	36500	2.641	27500	4.05
		3.1	7.1	80/67	37900	22400	1.859	44200	20.4	36200	2.789	26700	3.80
	12.0	3.1	7.1	85/71	41100	23500	1.878	47500	21.9				
		6.7	15.3	65/55	28700	19500	1.739	34600	16.5	39500	2.390	31300	4.84
		6.7	15.3	70/59	31900	20500	1.758	37900	18.1	39100	2.538	30400	4.51
		6.7	15.3	75/63	35000	21500	1.778	41100	19.7	38800	2.686	29600	4.23
		6.7	15.3	80/67	38200	22600	1.797	44300	21.3	38500	2.834	28800	3.98
		6.7	15.3	85/71	41300	23600	1.816	47500	22.7				
		11.6	26.5	65/55	29000	19600	1.677	34700	17.3	41800	2.435	33500	5.03
		11.6	26.5	70/59	32100	20600	1.696	37900	18.9	41400	2.583	32600	4.69
		11.6	26.5	75/63	35300	21600	1.716	41200	20.6	41100	2.731	31800	4.41
		11.6	26.5	80/67	38500	22700	1.735	44400	22.2	40800	2.879	31000	4.15
		11.6	26.5	85/71	41600	23700	1.754	47600	23.7				
80	8.0	3.0	7.0	65/55	26800	18700	2.061	33800	13.0	40600	2.393	32400	4.97
		3.0	7.0	70/59	29900	19700	2.081	37000	14.4	40200	2.541	31500	4.63
		3.0	7.0	75/63	33100	20700	2.100	40300	15.8	39900	2.689	30700	4.34
		3.0	7.0	80/67	36200	21800	2.119	43400	17.1	39600	2.837	29900	4.09
	12.0	3.0	7.0	85/71	39400	22800	2.139	46700	18.4				
		6.6	15.0	65/55	27000	18800	1.999	33800	13.5	42900	2.438	34600	5.15
		6.6	15.0	70/59	30200	19800	2.019	37100	15.0	42500	2.586	33700	4.81
		6.6	15.0	75/63	33300	20900	2.038	40300	16.3	42200	2.734	32900	4.52
		6.6	15.0	80/67	36500	21900	2.057	43500	17.7	41900	2.882	32100	4.26
		6.6	15.0	85/71	39700	22900	2.077	46800	19.1				
		11.4	26.0	65/55	27300	18900	1.937	33900	14.1	45200	2.483	36700	5.33
		11.4	26.0	70/59	30500	19900	1.956	37200	15.6	44800	2.631	35800	4.99
	16.0	11.4	26.0	75/63	33600	21000	1.976	40300	17.0	44500	2.779	35000	4.69
		11.4	26.0	80/67	36800	22000	1.995	43600	18.4	44200	2.927	34200	4.42
		11.4	26.0	85/71	39900	23000	2.014	46800	19.8				
90	8.0	3.0	6.8	65/55	25100	18400	2.397	33300	10.5	44000	2.441	35700	5.28
		3.0	6.8	70/59	28200	19400	2.416	36400	11.7	43600	2.589	34800	4.93
		3.0	6.8	75/63	31400	20400	2.436	39700	12.9	43300	2.737	34000	4.63
		3.0	6.8	80/67	34500	21500	2.455	42900	14.1	43000	2.885	33200	4.36
	12.0	3.0	6.8	85/71	37700	22500	2.474	46100	15.2				
		6.5	14.8	65/55	25300	18500	2.335	33300	10.8	46300	2.486	37800	5.45
		6.5	14.8	70/59	28500	19500	2.354	36500	12.1	45900	2.634	36900	5.10
		6.5	14.8	75/63	31600	20500	2.374	39700	13.3	45600	2.782	36100	4.80
		6.5	14.8	80/67	34800	21600	2.393	43000	14.5	45300	2.930	35300	4.53
		6.5	14.8	85/71	38000	22600	2.412	46200	15.8				
		11.2	25.5	65/55	25600	18600	2.273	33400	11.3	48600	2.531	40000	5.62
		11.2	25.5	70/59	28800	19600	2.292	36600	12.6	48200	2.679	39100	5.27
	16.0	11.2	25.5	75/63	31900	20600	2.312	39800	13.8	47900	2.827	38300	4.96
		11.2	25.5	80/67	35100	21700	2.331	43100	15.1	47600	2.975	37400	4.68
		11.2	25.5	85/71	38200	22700	2.350	46200	16.3				
100	8.0	3.0	6.7	65/55	23400	18400	2.827	33000	8.3	Operation Not Recommended			
		3.0	6.7	70/59	26500	19400	2.847	36200	9.3				
		3.0	6.7	75/63	29700	20400	2.866	39500	10.4				
		3.0	6.7	80/67	32800	21500	2.885	42600	11.4				
	12.0	3.0	6.7	85/71	36000	22500	2.904	45900	12.4				
		6.4	14.6	65/55	23700	18500	2.765	33100	8.6				
		6.4	14.6	70/59	26800	19500	2.784	36300	9.6				
		6.4	14.6	75/63	30000	20500	2.804	39600	10.7				
		6.4	14.6	80/67	33100	21600	2.823	42700	11.7				
		6.4	14.6	85/71	36300	22600	2.842	46000	12.8				
		11.0	25.2	65/55	23900	18600	2.703	33100	8.8				
		11.0	25.2	70/59	27100	19600	2.722	36400	10.0				
	16.0	11.0	25.2	75/63	30200	20600	2.742	39600	11.0				
		11.0	25.2	80/67	33400	21700	2.761	42800	12.1				
		11.0	25.2	85/71	36500	22700	2.780	46000	13.1				
110	8.0	2.9	6.7	65/55	21700	18700	3.370	33200	6.4				
		2.9	6.7	70/59	24900	19700	3.389	36500	7.3				
		2.9	6.7	75/63	28100	20800	3.409	39700	8.2				
		2.9	6.7	80/67	31200	21800	3.428	42900	9.1				
	12.0	2.9	6.7	85/71	34400	22800	3.447	46200	10.0				
		6.3	14.4	65/55	22000	18800	3.308	33300	6.7				
		6.3	14.4	70/59	25200	19800	3.327	36600	7.6				
		6.3	14.4	75/63	28300	20900	3.347	39700	8.5				
		6.3	14.4	80/67	31500	21900	3.366	43000	9.4				
		6.3	14.4	85/71	34600	22900	3.385	46200	10.2				
		10.9	24.9	65/55	22300	18900	3.246	33400	6.9				
		10.9	24.9	70/59	25400	19900	3.265	36500	7.8				
	16.0	10.9	24.9	75/63	28600	21000	3.285	39800	8.7				
		10.9	24.9	80/67	31700	22000	3.304	43000	9.6				
		10.9	24.9	85/71	34900	23000	3.323	46200	10.5				

GRQ – Size 048 (850 SCFM) – 1st Stage Low Fan

EWT (°F)	GPM	WPD		EAT (°F)	Cooling					Heating			
		PSI	FT of W.C.		Total (Btu/hr)	Sensible (Btu/hr)	Power Input (kW)	THR (Btu/hr)	EER	Total (Btu/hr)	Power Input (kW)	THA (Btu/hr)	COP
20	8.0	3.6	8.1	65/55	Operation Not Recommended					14100	2.141	6800	1.93
		3.6	8.1	70/59						13700	2.289	5900	1.75
		3.6	8.1	75/63						13400	2.437	5100	1.61
		3.6	8.1	80/67						13100	2.585	4300	1.48
		3.6	8.1	85/71									
	12.0	7.7	17.5	65/55						16400	2.185	8900	2.20
		7.7	17.5	70/59						16000	2.333	8000	2.01
		7.7	17.5	75/63						15700	2.481	7200	1.85
		7.7	17.5	80/67						15400	2.629	6400	1.72
		7.7	17.5	85/71									
	16.0	13.3	30.3	65/55						18700	2.230	11100	2.46
		13.3	30.3	70/59						18300	2.378	10200	2.25
		13.3	30.3	75/63						18000	2.526	9400	2.09
		13.3	30.3	80/67						17700	2.674	8600	1.94
		13.3	30.3	85/71									
30	8.0	3.4	7.8	65/55						18100	2.206	10600	2.40
		3.4	7.8	70/59	36200	23000	1.490	41300	24.3	17800	2.354	9800	2.21
		3.4	7.8	75/63	39300	24000	1.509	44500	26.0	17500	2.502	9000	2.05
		3.4	7.8	80/67	42500	25000	1.528	47700	27.8	17100	2.650	8100	1.89
		3.4	7.8	85/71	45600	26100	1.548	50900	29.5				
	12.0	7.4	17.0	65/55	33300	22100	1.408	38100	23.7	20400	2.251	12700	2.65
		7.4	17.0	70/59	36400	23100	1.427	41300	25.5	20100	2.399	11900	2.45
		7.4	17.0	75/63	39600	24100	1.447	44500	27.4	19800	2.547	11100	2.28
		7.4	17.0	80/67	42800	25200	1.466	47800	29.2	19400	2.695	10200	2.11
		7.4	17.0	85/71	45900	26200	1.485	51000	30.9				
	16.0	12.8	29.3	65/55	33600	22200	1.346	38200	25.0	22700	2.296	14900	2.89
		12.8	29.3	70/59	36700	23200	1.365	41400	26.9	22400	2.444	14100	2.68
		12.8	29.3	75/63	39900	24200	1.385	44600	28.8	22100	2.592	13300	2.50
		12.8	29.3	80/67	43000	25300	1.404	47800	30.6	21700	2.740	12300	2.32
		12.8	29.3	85/71	46200	26300	1.423	51100	32.5				
40	8.0	3.3	7.6	65/55	31400	21300	1.423	36300	22.1	22200	2.272	14400	2.86
		3.3	7.6	70/59	34600	22400	1.443	39500	24.0	21900	2.420	13600	2.65
		3.3	7.6	75/63	37800	23400	1.462	42800	25.9	21500	2.568	12700	2.45
		3.3	7.6	80/67	40900	24400	1.481	46000	27.6	21200	2.716	11900	2.29
		3.3	7.6	85/71	44100	25500	1.500	49200	29.4				
	12.0	7.2	16.5	65/55	31700	21400	1.361	36300	23.3	24500	2.316	16600	3.10
		7.2	16.5	70/59	34900	22500	1.380	39600	25.3	24200	2.464	15800	2.88
		7.2	16.5	75/63	38000	23500	1.400	42800	27.1	23800	2.612	14900	2.67
		7.2	16.5	80/67	41200	24500	1.419	46000	29.0	23500	2.760	14100	2.49
		7.2	16.5	85/71	44300	25600	1.438	49200	30.8				
	16.0	12.5	28.5	65/55	32000	21500	1.299	36400	24.6	26800	2.361	18700	3.32
		12.5	28.5	70/59	35100	22600	1.318	39600	26.6	26500	2.509	17900	3.09
		12.5	28.5	75/63	38300	23600	1.338	42900	28.6	26100	2.657	17000	2.88
		12.5	28.5	80/67	41400	24600	1.357	46000	30.5	25800	2.805	16200	2.69
		12.5	28.5	85/71	44600	25700	1.376	49300	32.4				
50	8.0	3.3	7.4	65/55	29900	20700	1.457	34900	20.5	26300	2.337	18300	3.30
		3.3	7.4	70/59	33000	21700	1.476	38000	22.4	25900	2.485	17400	3.05
		3.3	7.4	75/63	36200	22800	1.495	41300	24.2	25600	2.633	16600	2.85
		3.3	7.4	80/67	39300	23800	1.515	44500	25.9	25300	2.781	15800	2.66
		3.3	7.4	85/71	42500	24800	1.534	47700	27.7				
	12.0	7.0	16.0	65/55	30100	20800	1.395	34900	21.6	28600	2.382	20500	3.52
		7.0	16.0	70/59	33300	21800	1.414	38100	23.6	28200	2.530	19600	3.26
		7.0	16.0	75/63	36400	22900	1.433	41300	25.4	27900	2.678	18800	3.05
		7.0	16.0	80/67	39600	23900	1.453	44600	27.3	27600	2.826	18000	2.86
		7.0	16.0	85/71	42700	24900	1.472	47700	29.0				
	16.0	12.1	27.7	65/55	30400	20900	1.333	34900	22.8	30900	2.427	22600	3.73
		12.1	27.7	70/59	33500	21900	1.352	38100	24.8	30500	2.575	21700	3.47
		12.1	27.7	75/63	36700	23000	1.371	41400	26.8	30200	2.723	20900	3.25
		12.1	27.7	80/67	39900	24000	1.391	44600	28.7	29900	2.871	20100	3.05
		12.1	27.7	85/71	43000	25000	1.410	47800	30.5				
60	8.0	3.2	7.2	65/55	28300	20100	1.571	33700	18.0	30400	2.403	22200	3.70
		3.2	7.2	70/59	31400	21100	1.590	36800	19.7	30000	2.551	21300	3.44
		3.2	7.2	75/63	34600	22100	1.610	40100	21.5	29700	2.699	20500	3.22
		3.2	7.2	80/67	37700	23200	1.629	43300	23.1	29300	2.847	19600	3.01
		3.2	7.2	85/71	40900	24200	1.648	46500	24.8				
	12.0	6.9	15.6	65/55	28500	20200	1.509	33700	18.9	32700	2.447	24300	3.91
		6.9	15.6	70/59	31700	21200	1.528	36900	20.7	32300	2.595	23400	3.64
		6.9	15.6	75/63	34800	22300	1.547	40100	22.5	32000	2.743	22600	3.42
		6.9	15.6	80/67	38000	23300	1.567	43300	24.3	31600	2.891	21700	3.20
		6.9	15.6	85/71	41200	24300	1.586	46600	26.0				
	16.0	11.8	27.0	65/55	28800	20300	1.447	33700	19.9	34900	2.492	26400	4.10
		11.8	27.0	70/59	32000	21300	1.466	37000	21.8	34600	2.640	25600	3.84
		11.8	27.0	75/63	35100	22400	1.485	40200	23.6	34300	2.788	24800	3.60
		11.8	27.0	80/67	38300	23400	1.505	43400	25.4	33900	2.936	23900	3.38
		11.8	27.0	85/71	41400	24400	1.524	46600	27.2				

GRQ – Size 048 (850 SCFM) – 1st Stage Low Fan (Continued)

EWT (°F)	GPM	WPD		EAT (°F)	Cooling					Heating			
		PSI	FT of W.C.		Total (Btu/hr)	Sensible (Btu/hr)	Power Input (kW)	THR (Btu/hr)	EER	Total (Btu/hr)	Power Input (kW)	THA (Btu/hr)	COP
70	8.0	3.1	7.1	65/55	26700	19500	1.766	32700	15.1	34400	2.468	26000	4.08
		3.1	7.1	70/59	29800	20500	1.785	35900	16.7	34100	2.616	25200	3.82
		3.1	7.1	75/63	33000	21500	1.804	39200	18.3	33800	2.764	24400	3.58
		3.1	7.1	80/67	36200	22600	1.824	42400	19.8	33400	2.912	23500	3.36
		3.1	7.1	85/71	39300	23600	1.843	45600	21.3				
	12.0	6.7	15.3	65/55	27000	19600	1.704	32800	15.8	36700	2.513	28100	4.28
		6.7	15.3	70/59	30100	20600	1.723	36000	17.5	36400	2.661	27300	4.01
		6.7	15.3	75/63	33300	21600	1.742	39200	19.1	36100	2.809	26500	3.76
		6.7	15.3	80/67	36400	22700	1.761	42400	20.7	35700	2.957	25600	3.54
		6.7	15.3	85/71	39600	23700	1.781	45700	22.2				
	16.0	11.6	26.5	65/55	27200	19700	1.641	32800	16.6	39000	2.558	30300	4.46
		11.6	26.5	70/59	30400	20700	1.661	36100	18.3	38700	2.706	29500	4.19
		11.6	26.5	75/63	33500	21700	1.680	39200	19.9	38300	2.854	28600	3.93
		11.6	26.5	80/67	36700	22800	1.699	42500	21.6	38000	3.002	27800	3.71
		11.6	26.5	85/71	39800	23800	1.719	45700	23.2				
80	8.0	3.0	7.0	65/55	25100	18800	2.041	32100	12.3	38500	2.534	29900	4.45
		3.0	7.0	70/59	28300	19900	2.060	35300	13.7	38200	2.682	29000	4.17
		3.0	7.0	75/63	31400	20900	2.080	38500	15.1	37800	2.830	28100	3.91
		3.0	7.0	80/67	34600	21900	2.099	41800	16.5	37500	2.978	27300	3.69
		3.0	7.0	85/71	37700	23000	2.118	44900	17.8				
	12.0	6.6	15.0	65/55	25400	18900	1.979	32200	12.8	40800	2.578	32000	4.63
		6.6	15.0	70/59	28500	20000	1.998	35300	14.3	40500	2.726	31200	4.35
		6.6	15.0	75/63	31700	21000	2.017	38600	15.7	40100	2.874	30300	4.09
		6.6	15.0	80/67	34800	22000	2.037	41800	17.1	39800	3.022	29500	3.86
		6.6	15.0	85/71	38000	23100	2.056	45000	18.5				
	16.0	11.4	26.0	65/55	25600	19000	1.917	32100	13.4	43100	2.623	34100	4.81
		11.4	26.0	70/59	28800	20100	1.936	35400	14.9	42800	2.771	33300	4.52
		11.4	26.0	75/63	31900	21100	1.955	38600	16.3	42400	2.919	32400	4.25
		11.4	26.0	80/67	35100	22100	1.975	41800	17.8	42100	3.067	31600	4.02
		11.4	26.0	85/71	38300	23200	1.994	45100	19.2				
90	8.0	3.0	6.8	65/55	23500	18200	2.397	31700	9.8	42600	2.599	33700	4.80
		3.0	6.8	70/59	26700	19200	2.416	34900	11.1	42200	2.747	32800	4.50
		3.0	6.8	75/63	29800	20300	2.435	38100	12.2	41900	2.895	32000	4.24
		3.0	6.8	80/67	33000	21300	2.455	41400	13.4	41600	3.043	31200	4.00
		3.0	6.8	85/71	36100	22300	2.474	44500	14.6				
	12.0	6.5	14.8	65/55	23800	18300	2.335	31800	10.2	44900	2.644	35900	4.97
		6.5	14.8	70/59	26900	19300	2.354	34900	11.4	44500	2.792	35000	4.67
		6.5	14.8	75/63	30100	20400	2.373	38200	12.7	44200	2.940	34200	4.40
		6.5	14.8	80/67	33200	21400	2.393	41400	13.9	43900	3.088	33400	4.16
		6.5	14.8	85/71	36400	22400	2.412	44600	15.1				
	16.0	11.2	25.5	65/55	24100	18400	2.273	31900	10.6	47200	2.689	38000	5.14
		11.2	25.5	70/59	27200	19500	2.292	35000	11.9	46800	2.837	37100	4.83
		11.2	25.5	75/63	30400	20500	2.311	38300	13.2	46500	2.985	36300	4.56
		11.2	25.5	80/67	33500	21500	2.331	41500	14.4	46200	3.133	35500	4.32
		11.2	25.5	85/71	36700	22600	2.350	44700	15.6				
100	8.0	3.0	6.7	65/55	21900	17600	2.833	31600	7.7				
		3.0	6.7	70/59	25100	18600	2.853	34800	8.8				
		3.0	6.7	75/63	28200	19700	2.872	38000	9.8				
		3.0	6.7	80/67	31400	20700	2.891	41300	10.9				
		3.0	6.7	85/71	34600	21700	2.910	44500	11.9				
	12.0	6.4	14.6	65/55	22200	17700	2.771	31700	8.0				
		6.4	14.6	70/59	25400	18700	2.790	34900	9.1				
		6.4	14.6	75/63	28500	19800	2.810	38100	10.1				
		6.4	14.6	80/67	31700	20800	2.829	41400	11.2				
		6.4	14.6	85/71	34800	21800	2.848	44500	12.2				
	16.0	11.0	25.2	65/55	22500	17800	2.709	31700	8.3				
		11.0	25.2	70/59	25600	18800	2.728	34900	9.4				
		11.0	25.2	75/63	28800	19900	2.748	38200	10.5				
		11.0	25.2	80/67	31900	20900	2.767	41300	11.5				
		11.0	25.2	85/71	35100	21900	2.786	44600	12.6				
110	8.0	2.9	6.7	65/55	20400	17000	3.350	31800	6.1				
		2.9	6.7	70/59	23500	18000	3.370	35000	7.0				
		2.9	6.7	75/63	26700	19000	3.389	38300	7.9				
		2.9	6.7	80/67	29800	20100	3.408	41400	8.7				
		2.9	6.7	85/71	33000	21100	3.428	44700	9.6				
	12.0	6.3	14.4	65/55	20600	17100	3.288	31800	6.3				
		6.3	14.4	70/59	23800	18100	3.307	35100	7.2				
		6.3	14.4	75/63	26900	19100	3.327	38300	8.1				
		6.3	14.4	80/67	30100	20200	3.346	41500	9.0				
		6.3	14.4	85/71	33200	21200	3.365	44700	9.9				
	16.0	10.9	24.9	65/55	20900	17200	3.226	31900	6.5				
		10.9	24.9	70/59	24000	18200	3.245	35100	7.4				
		10.9	24.9	75/63	27200	19200	3.265	38300	8.3				
		10.9	24.9	80/67	30300	20300	3.284	41500	9.2				
		10.9	24.9	85/71	33500	21300	3.303	44800	10.1				

Operation Not Recommended



People and ideas you can trust.™

Daikin Applied Training and Development

Now that you have made an investment in modern, efficient Daikin equipment, its care should be a high priority. For training information on all Daikin HVAC products, please visit us at www.DaikinApplied.com and click on Training, or call 540-248-9646 and ask for the Training Department.

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All Daikin equipment is sold pursuant to its standard terms and conditions of sale, including Limited Product Warranty. Consult your local Daikin Applied representative for warranty details. Refer to Form 933-430285Y. To find your local Daikin Applied representative, go to www.DaikinApplied.com.

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Products manufactured in an ISO Certified Facility.