TECHNICAL SPECIFICATIONS

R7TQ Series

6, 7 ½ and 10 Ton Packaged Gas/Electric Units

12.7 IEER Commercial System
81% Steady State Efficiency

Standard Features

- Fits Carrier Pre-Existing Curbs
- High-Efficiency
- Micro-Channel Coils
- Foam Panel Wall Construction
- Hinged Access Doors
- Compatible Utility Connections

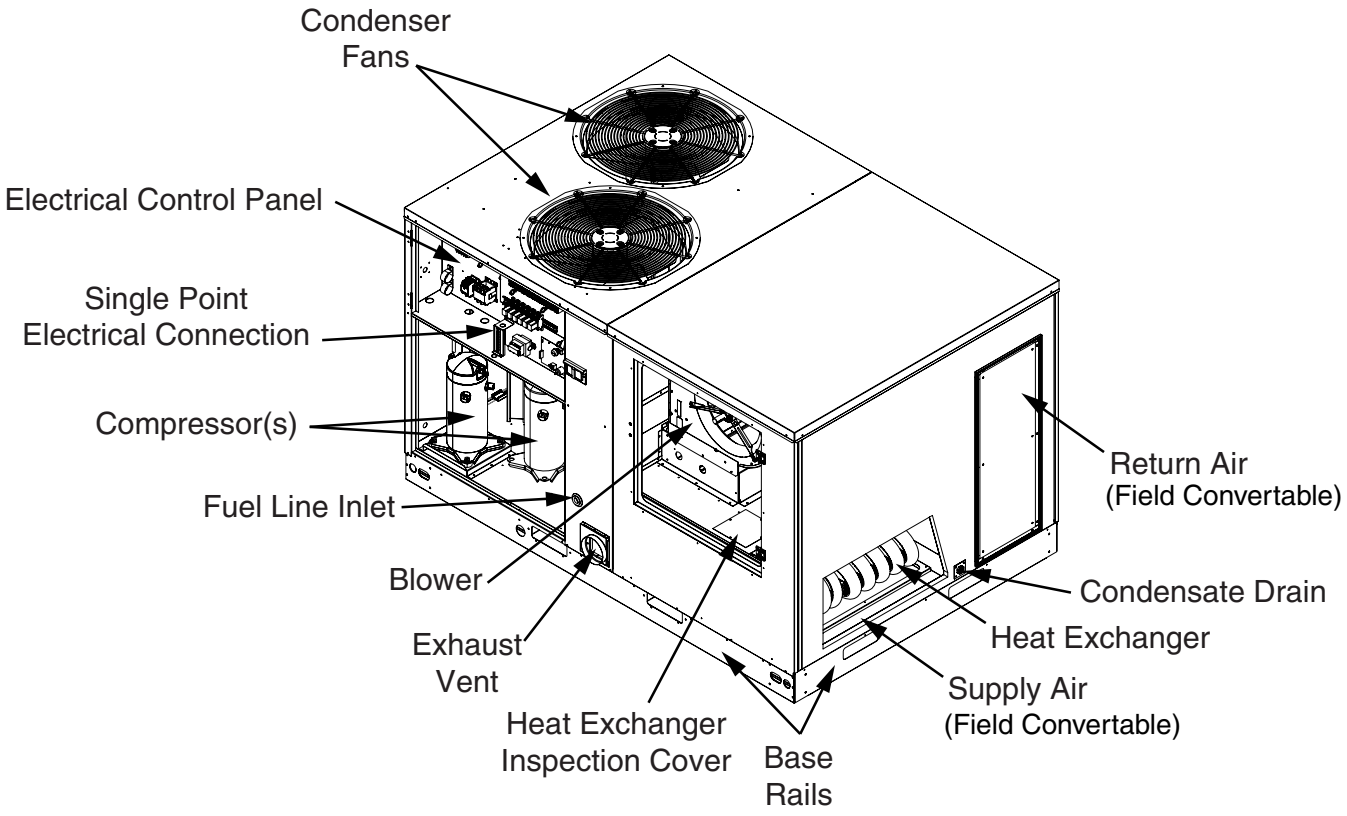
Factory Installed Options

- Convenience Outlet
- Unit Mounted Disconnect
- Stainless Steel Heat Exchanger
- Coated Condenser Coil

FEATURES and BENEFITS

- **Quality Compressor:** State of the art scroll compressor is standard equipment.
- **Features Two-Stage Heating & Cooling:** Provides high/low fire operation.
- **High Efficient Blower Motor:** Meets the requirements of NEMA 12/19/2010
- **High-Pressure Switches:** Ensure long compressor life. Featuring manual reset high pressure control.
- **For Easy Service:** Hi/low service ports allow quick access without disrupting operation.
- **Permanently Lubricated Condenser Fan Motors:** A heavy duty PSC motor for long lasting reliability and quiet operation. Requires no maintenance and is completely protected from rain and snow.
- **90 VA Transformer:** Includes 4 Amp circuit breaker to protect the low voltage circuit.
- **Liquid Line Filter Driers:** Factory installed for convenience.
- **Crankcase Heater:** Protection from liquid flood back and future compressor failures.
- **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.
- **81% Steady State Efficiency:** Aluminized steel or stainless steel heat exchanger tubes are available.
- **Direct Spark Ignition Control:** With 3 amp fuse, flame sensing, and diagnostic LED
- **Removable Top Grille Assembly:** Allows ease of service to the fan motor.
- **Full Perimeter Base Rail System:** Base rails have rigging holes and do not need to be removed for curb applications. Base rails have fork truck slots on three sides.
- **Durable Finish, Attractive Cabinet:** Designed using 20 gauge galvanized steel with a polyester urethane finish. The 950 hour salt spray finish is 1.5 mil thick and resists corrosion.
- **Unit Footprint:** Fits Carrier pre-existing curbs, eliminating the cost of an adaptor curb.
- **Compatible Connections:** Gas and electrical connections align with many existing units installed today.
- **Foam Panel Wall Construction:** No exposed fiberglass insulation in air stream for increased air quality and suppressed mold growth; superior noise reduction.
- **Hinged Access Doors:** Easy access to blower, controls and filters with no leaks and no screws to lose.
- **Micro-Channel Coils:** All-aluminum for high corrosion resistance and increased heat transfer; 30% less refrigerant to reduce costs and save time.
- **High Efficiency:** 12.7 IEER meets ASHRAE Std - 90.1 - 2013 requirements.
- **Unit Mounted Disconnect:** Lower installation cost, correct sizing and easier unit servicing.
- **Convenience Outlet:** Unit mounted, field supplied circuit 110V outlet for user friendly unit servicing and operation.
- **Stainless Steel Heat Exchanger:** Resistant to oxidation and harsh environments; easy to clean.
- **Coated Condenser Coil:** Improved longevity and operating performance in harsh coastal environments.

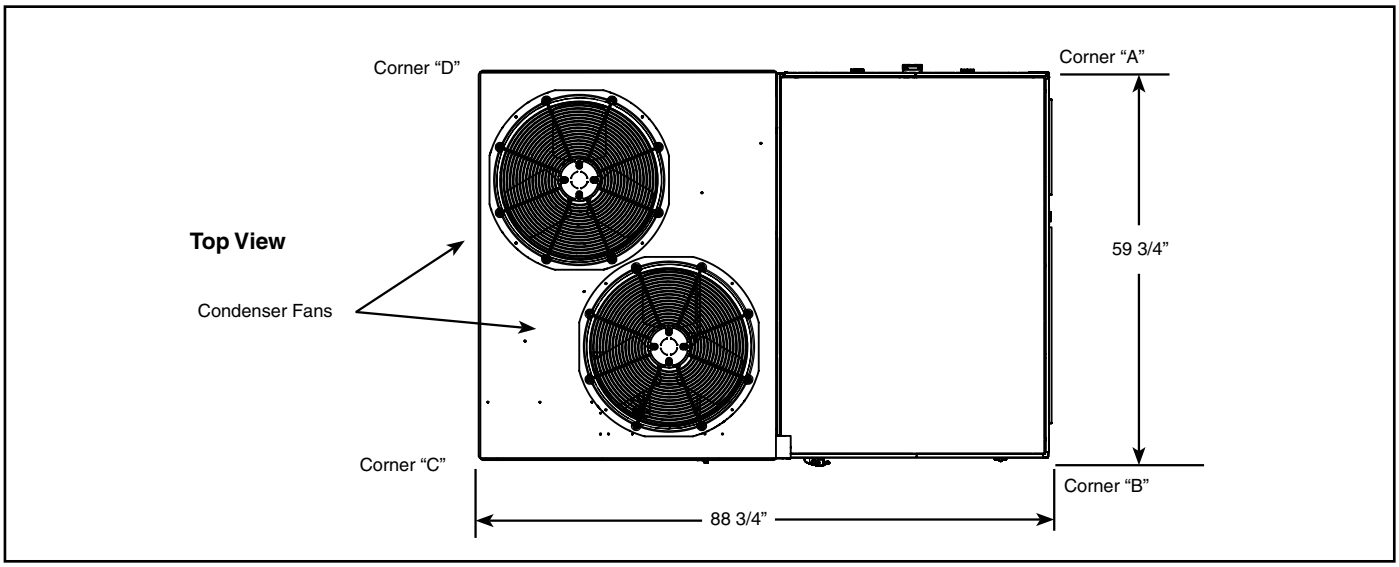
R7TQ COMPONENT LOCATIONS

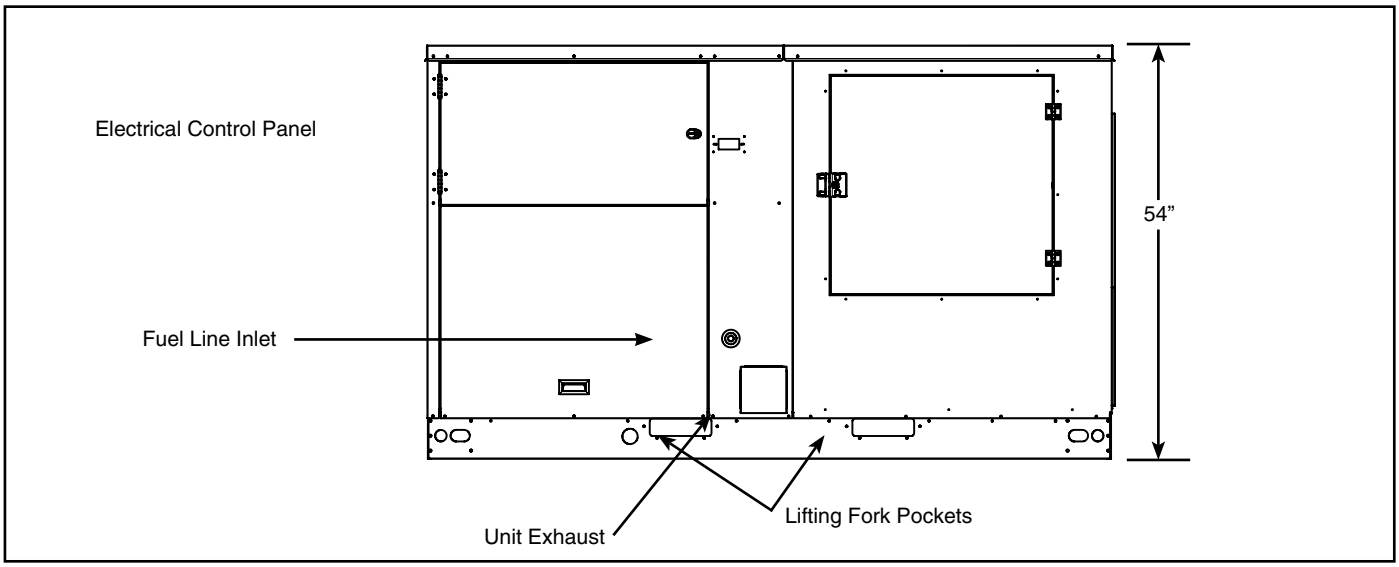


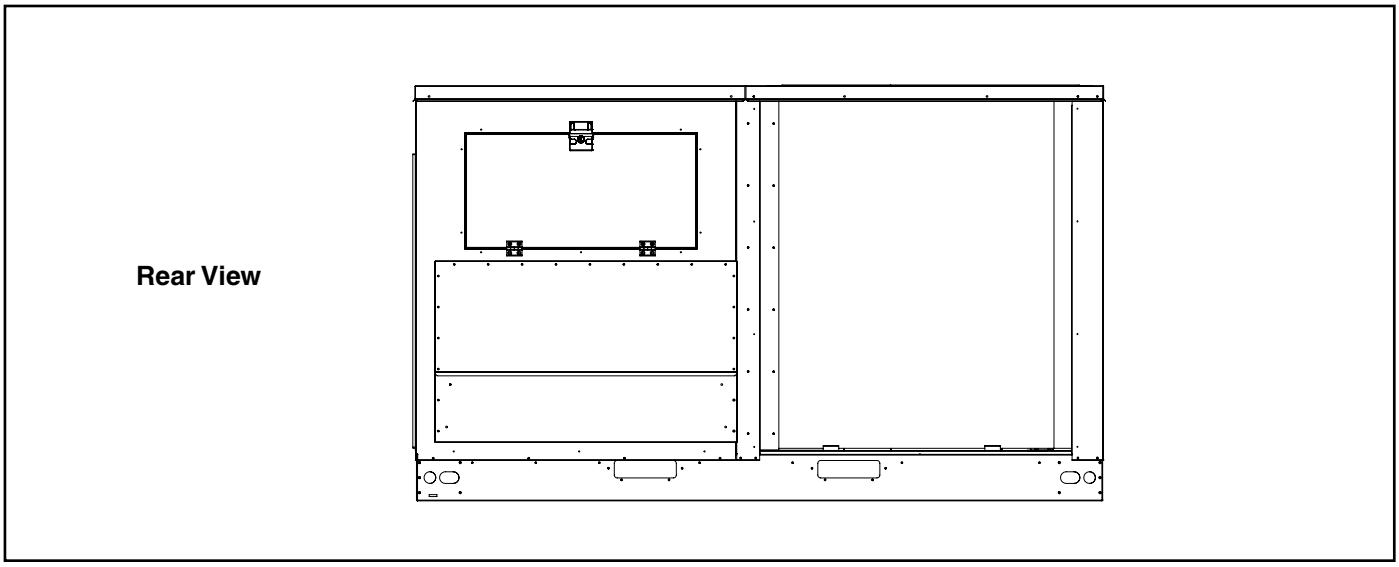
Filter Sizes & Quantities

UNIT	FACTORY FILTER SIZE	QTY
R7TQ072	20 x 20 x 2	4
R7TQ090	20 x 20 x 2	4
R7TQ120	20 x 20 x 2	4

R7TQ – PHYSICAL DATA
Dimensions shown in inches

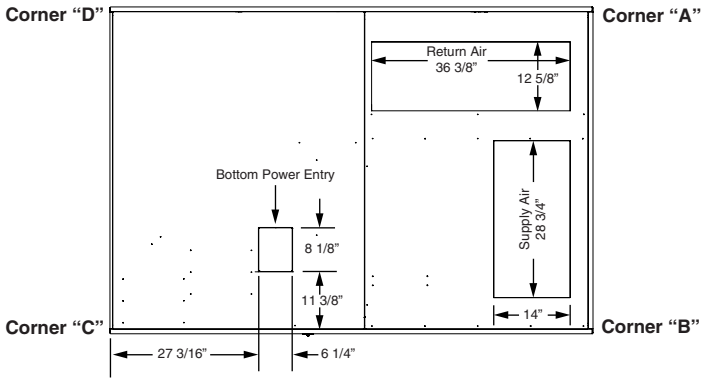




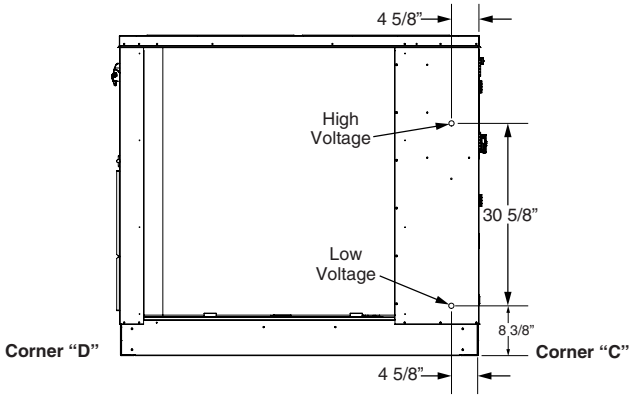


Physical Dimensions for R7TQ Units

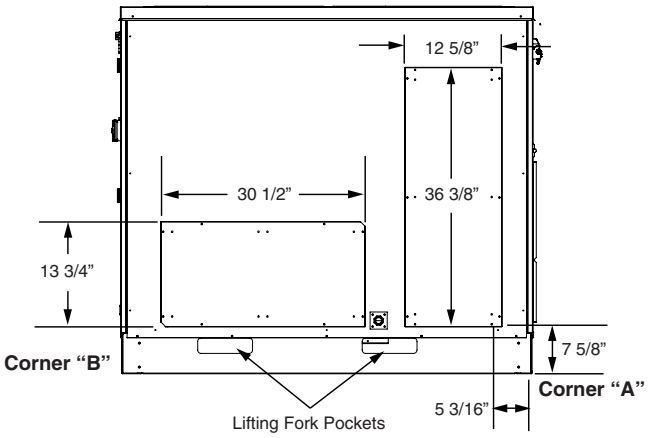
R7TQ – PHYSICAL DATA (CONTINUED)
Dimensions shown in inches



Bottom Pan Top View

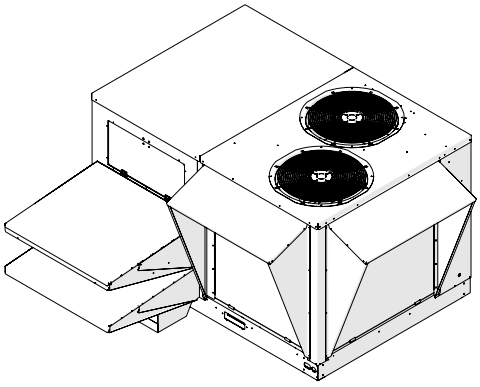


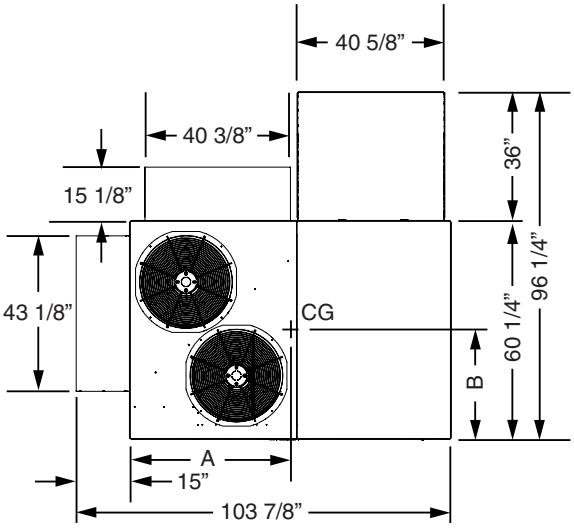
Side View
Corners C & D



B-A End View

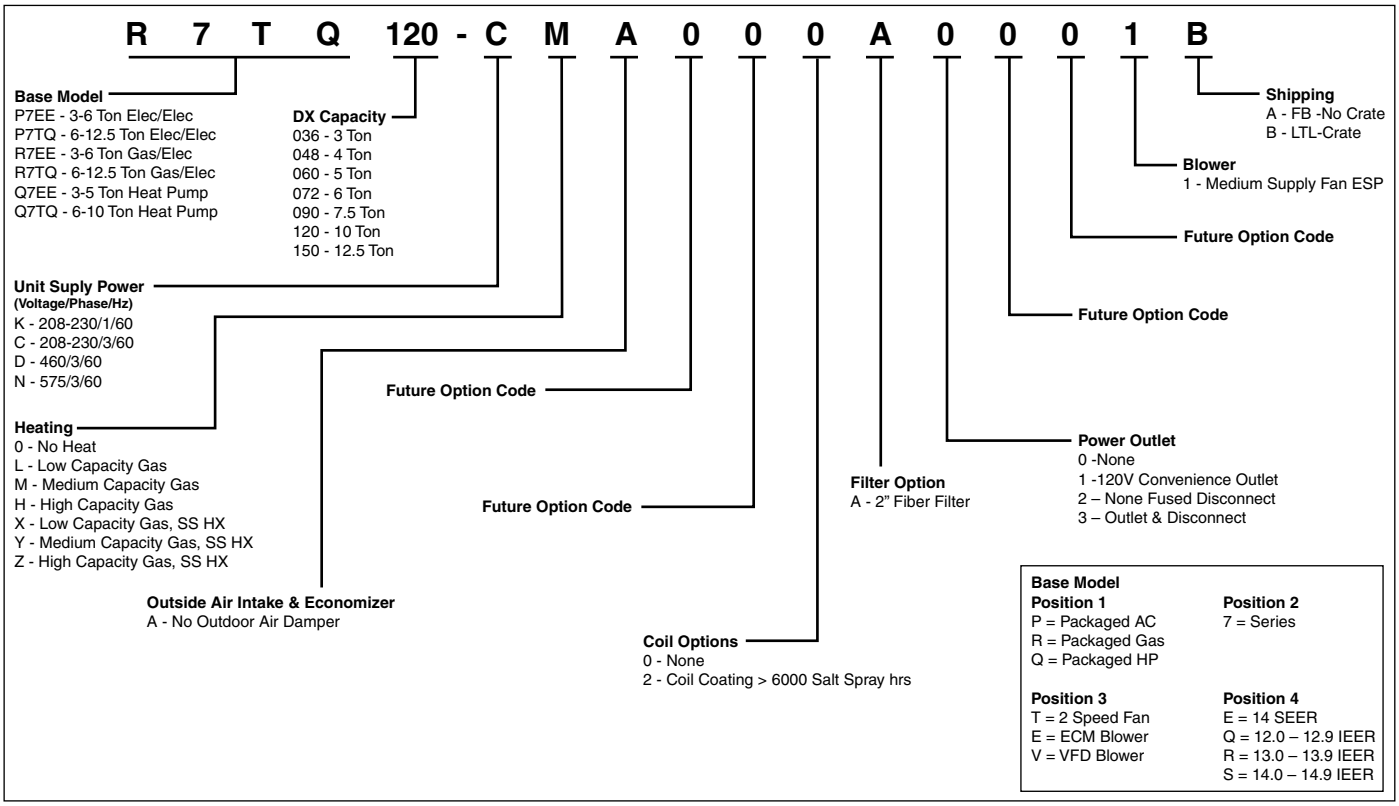
R7TQ unit with optional hoods





Physical Dimensions for R7TQ Units (Continued)

MODEL IDENTIFICATION CODE



CENTER OF GRAVITY & UNIT SHIPPING WEIGHTS

MODEL NUMBER	UNIT WEIGHT ‡		SHIPPING WEIGHT		CENTER OF GRAVITY INCHES		CORNER WEIGHTS								UNIT HEIGHT**	
							A		B		C		D		HORIZONTAL DUCT APPLICATIONS	VERTICAL DUCT APPLICATIONS
	LBS.	KG.	LBS.	KG	A	B	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.		
R7TQ072	1086	493	1208	548	47.75"	23.5"	232	105	362	164	302	137	199	90	54"	48.5"
R7TQ090	1184	538	1306	593	47.75"	27"	291	132	346	157	298	135	249	113	54"	48.5"
R7TQ120	1196	543	1318	598	46.88"	25.75"	275	125	347	157	319	145	246	112	54"	48.5"

**Baserails are not intended to be removed. Information provided is total unit height for horizontal duct applications or height dimension added to selected roof curb height for vertical duct applications.

‡ Unit weight without packaging or field installed accessories.

PHYSICAL SPECIFICATIONS DATA

Model R7TQ	072	090	120
Nominal Capacity (tons)	**6**	**7.5**	**10.0**
AHRI	**10081793**	**10081794**	**10081795**
Performance Data [1,2,3]			
Total Gross Cooling Capacity (Btuh)	76,300	94,725	119,625
Rated Net Cooling Capacity (Btuh)	72,000	90,000	114,000
E.E.R. - Cooling Efficiency (Btuh/Watt)	11.0	11.0	11.0
IEER - Part Load Efficiency	12.7	12.7	12.7
Rated Airflow - CFM	2,550 / 1,650	3,150 / 2,000	3,450 / 2,200
Total Sound Power (dBA)[4]	83	84	84

1) Certified in accordance with AHRI Standard 340/360 at the rated airflow shown and the minimum external static duct pressure allowed by the standard. ARI Rating for units with dual voltages are shown at highest rated unit voltage.

2) E.E.R. - Energy Efficiency Ratio: The EER and Net Capacity is determined @ 95˚F Outdoor DB and with air entering the evaporator at 80˚F DB / 67˚F WB

3) IEER - Intergrated Energy Efficiency Ratio: a measure of merit for part load performance of the unit.

4) All sound power values are referenced to 10^{-12} W.

REFRIGERANT CHARGE

NOMINAL TONNAGE	FACTORY CHARGE 1ST STAGE / 2ND STAGE
6	128 oz
7 1/2	93 oz / 94 oz
10	97 oz / 94 oz

ELECTRICAL DATA

COOLING TONNAGE[2,3]	VOLTAGE[1]	2 HP MOTOR		3 HP ECM MOTOR (OPTIONAL)	
		MCA	MOP	MCA	MOP
072	208V - 230V	30.8	45	33.7	50
	460V	14.9	20	16.4	20
	575V	11.3	15		
090	208V - 230V	40.1	50	43.0	50
	460V	19.2	25	20.7	25
	575V	14.3	15		
120	208V - 230V	46.6	60	19.5	60
	460V	23.1	30	24.6	30
	575V	17.2	20		

NOTES:

1) To achieve the rated unit performance, unit voltage should be within 2% of nominal.

2) For C series units:

Nominal Unit Input Voltage = 208-230 Volt, 60 Hertz, 3 Phase

Minimum allowed unit voltage = 187V

Maximum allowed voltage = 253V

3) For D series units:

Nominal Unit Input Voltage = 460 Volt, 60 Hertz, 3 Phase

Minimum allowed unit voltage = 414V

Maximum allowed voltage = 506V)

FLA = Full Load Amps; MCA = Minimum Circuit Ampacity; RLA = Rated Load Amps;

MOP = Maximum Over-Current Protection; LRA = Locked Rotor Amps

GAS INFORMATION

Heat Rise and Range

Model	Heat Size (MBTU/H)	High Fire		Low Fire		Temp rise @ High fire	CFM
		Heating Input	Heating Output	Heating Input	Heating Output		
R7TQ072-*L	100	100,000	81,000	70,000	56,700	25-55	2550
R7TQ072-*H	166	166,000	134,460	116,200	94,122	30-60	2550
R7TQ090-*L	166	166,000	134,460	116,200	94,122	30-60	3150
R7TQ090-*M	200	200,000	162,000	140,000	113,400	30-60	3150
R7TQ090-*H	225	225,000	182,250	157,500	127,575	25-55	3150
R7TQ120-*L	166	166,000	134,460	116,200	94,122	30-60	3450
R7TQ120-*M	200	200,000	162,000	140,000	113,400	30-60	3450
R7TQ120-*H	225	225,000	182,250	157,500	127,575	25-55	3450

BLOWER PERFORMANCE DATA

3493
1017
2.07

Factory Low Static Setting: Recommended operational point

3862
1159
3.03

Medium Static Setting (Optional): Recommended operational point

2946
741
0.85

Italic font Indicates an allowable setting that is not recommended for unit operation.
These operational points should be carefully examined by the installer for proper unit setup and heater operation if used.

Indicates a setting that is not permitted for unit operation

BLOWER PERFORMANCE DATA

R7TQ072-C/D/N SERIES

2 HP, DOWNFLOW BLOWER DATA
Factory Standard & Medium Static Drive

EXTERNAL UNIT STATIC (" WC)	OPERATING @ 230V, 460V, OR 575V	ADJUSTABLE MOTOR SHEAVE SETTING										
		FULLY CLOSED	1/2 TURN OPEN	1 TURN OPEN	1.5 TURN OPEN	2 TURNS OPEN*	2.5 TURNS OPEN	3 TURNS OPEN	3.5 TURNS OPEN	4 TURNS OPEN	4.5 TURNS OPEN	5 TURNS OPEN
HIGH SPEED OPERATION												
0.1	CFM		*2874*	2808	2749	2690	2608	2525	2443	2360	2303	2256
	RPM		*1026*	1008	986	964	940	915	891	867	842	817
	kW		*1.69*	1.65	1.51	1.37	1.30	1.23	1.16	1.09	1.04	0.99
0.2	CFM	2840	2778	2715	2643	2570	2483	2395	2308	2220	2157	2093
	RPM	1046	1028	1009	987	965	941	916	892	867	843	818
	kW	1.71	1.65	1.60	1.47	1.33	1.26	1.19	1.12	1.06	1.00	0.95
0.3	CFM	2740	2681	2623	2536	2450	2358	2265	2173	2080	2010	*1930*
	RPM	1048	1029	1011	988	966	941	917	892	868	843	*819*
	kW	1.68	1.62	1.55	1.42	1.28	1.22	1.15	1.09	1.02	0.97	*0.91*
0.4	CFM	2635	2583	2530	2430	2330	2233	2135	2040	2410		
	RPM	1049	1031	1012	990	967	942	918	893	1018		
	kW	1.65	1.58	1.51	1.37	1.24#	1.18	1.11	1.05	1.50		
0.5	CFM	2510	2440	2370	2270	2190	2093	2485	2388	2290		
	RPM	1050	1032	1013	991	969	944	1074	1047	1019		
	kW	1.60	1.52	1.44	1.31	1.22	1.15	1.50	1.49	1.48		
0.6	CFM	2385	2298	2210	2130	2050	2490	2400	2285	2170		
	RPM	1051	1033	1014	992	970	1105	1076	1048	1020		
	kW	1.54	1.46	1.37	1.28	1.19	1.56	1.48	1.46	1.44		
0.7	CFM	2245	2155	2065	2400	2490	2383	2275				
	RPM	1053	1034	1015	1160	1137	1108	1078				
	kW	1.48	1.40	1.32	1.75	1.71	1.50	1.28				
0.8	CFM	2105	2013	2550	2460	2370	2260	2150				
	RPM	1054	1035	1185	1162	1138	1109	1079				
	kW	1.42	1.34	1.80	1.72	1.64	1.44	1.23				
0.9	CFM	*1943*	2540	2460	2368	2275						
	RPM	*1056*	1208	1187	1165	1143						
	kW	*1.35*	1.85	1.79	1.69	1.58						
1.0	CFM	2530	2450	2370	2275	2180						
	RPM	1231	1210	1189	1168	1147						
	kW	1.90	1.84	1.78	1.65	1.52						
1.1	CFM	2450	2345	2240	2120	2000						
	RPM	1233	1212	1191	1170	1148						
	kW	1.75	1.74	1.73	1.61	1.49						
1.2	CFM	2400	2273	2145								
	RPM	1233	1213	1192								
	kW	1.65	1.60	1.55								
LOW SPEED OPERATION - FOR REFERENCE ONLY												
Low Static 0.1	CFM		1790	1750	1709	1668	1610	1551	1495	1434	1352	1270
	RPM		684	670	655	641	625	609	592	576	554	532
	kW		0.71	0.67	0.64	0.61	0.57	0.53	0.50	0.46	0.46	0.45
Low Static 0.2	CFM	1679	1629	1579	1529	1479	1415	1350	1286	1221		
	RPM	699	685	671	656	642	626	610	593	577		
	kW	0.69	0.66	0.62	0.59	0.56	0.52	0.48	0.45	0.41		
Low Static 0.3	CFM	1425	1335	1240	1150	1057						
	RPM	701	686	672	658	644						
	kW	0.65	0.60	0.55	0.51	0.46						
Medium Static 0.2	CFM			1940	1890	1840	1760	1680				
	RPM			794	778	761	740	718				
	kW			0.82	0.77	0.71	0.67	0.62				
Medium Static 0.3	CFM	1875	1833	1790	1728	1665	1585	1505				
	RPM	826	810	795	779	763	741	720				
	kW	0.78	0.75	0.72	0.68	0.64	0.62	0.61				
Medium Static 0.4	CFM	1740	1690	1640	1565	1490	1410	1330				
	RPM	827	812	796	780	764	743	721				
	kW	0.74	0.68	0.61	0.59	0.56	0.58	0.59				
Medium Static 0.5	CFM	1590	1520	1450	1375	1300						
	RPM	828	814	799	783	766						
	kW	0.65	0.62	0.60	0.51	0.43						

NOTES:

* Denotes Recommended Sheave Setting.

Boldface type indicates factory recommended blower operating range.

Values include losses for 2" standard air filters, unit casing, and dry evaporator coil.

For 208V operation deduct approximately 0.5% from CFM shown.

FACTORY STATIC DRIVE CONSISTS OF:

12" x 12" FC Blower, 2 HP / 2 Speed Motor

1VP40 Sheave, BK70 Pulley Belt & B56 Belt

MEDIUM STATIC DRIVE (OPTIONAL) CONSISTS OF:

Same except uses BK60 Blower Pulley.

BLOWER PERFORMANCE DATA

R7TQ-072C/D/N SERIES

2 HP, 2 SPEED, HORIZONTAL BLOWER DATA
Factory Standard & Medium Static Drive

EXTERNAL UNIT STATIC (IN WC)		OPERATING @ 230V, 460V, OR 575V	ADJUSTABLE MOTOR SHEAVE SETTING									
			FULLY CLOSED	1 TURN OPEN	1.5 TURNS OPEN	2 TURNS OPEN	2.5 TURNS OPEN	3 TURNS OPEN	3.5 TURNS OPEN	4 TURNS OPEN	4.5 TURNS OPEN*	5 TURNS OPEN
HIGH SPEED OPERATION												
0.1		CFM										*2900*
		RPM										*746*
		kW										*0.86*
0.2		CFM								2960	2830	2700
		RPM								793	770	746
		kW								0.91	0.89	0.87
0.3		CFM							*2903*	2790	2655	2520
		RPM							*818*	793	770	747
		kW							*0.88*	0.89	0.87	0.85
0.4		CFM					2963	2840	2705	2570	2425	2280
		RPM					865	843	819	795	771	748
		kW					0.89	0.89	0.90	0.91	0.89	0.87
0.5		CFM				*2920*	2785	2650	2500	2350	2175	**2540**
		RPM				*888*	867	845	821	796	773	**823**
		kW				*0.87*	0.88	0.89	0.92	0.94	0.90	**0.87**
0.6		CFM		*2945*	2828	2710	2555	2400	2230	**2655**	**2468**	**2280**
		RPM		*927*	908	889	868	846	822	**879**	**852**	**826**
		kW		*0.89*	0.87	0.86	0.88	0.90	0.91	**0.84**	**0.85**	**0.87**
0.7		CFM	*2930*	2760	2610	2460	2295	2130	**2595**	**2440**	**2230**	**2020**
		RPM	*958*	928	909.5	891	869.5	848	**905**	**881**	**854**	**826**
		kW	*0.92*	0.90	0.88	0.86	0.86	0.86	**0.85**	**0.84**	**0.86**	**0.87**
0.8		CFM	2710	2515	2358	2200	**2688**	**2510**	**2330**	**2150**	*1895*	
		RPM	960	931	912	893	**955**	**930**	**906**	**881**	*856*	
		kW	0.92	0.89	0.88	0.88	**0.86**	**0.85**	**0.85**	**0.85**	*0.86*	
0.9		CFM	2490	2270	2070	**2670**	**2470**	**2270**				
		RPM	962	933	914	**982**	**957**	**932**				
		kW	0.92	0.89	0.88	**0.86**	**0.85**	**0.85**				
1.0		CFM	2220	**2735**	**2588**	**2440**	**2200**	*1960*				
		RPM	966	**1023**	**1003**	**984**	**959**	*934*				
		kW	0.91	**0.86**	**0.87**	**0.87**	**0.86**	*0.84*				
1.1		CFM	**2850**	**2500**	**2333**	**2165**						
		RPM	**1065**	**1024**	**1005**	**986**						
		kW	**0.92**	**0.86**	**0.86**	**0.86**						
LOW SPEED OPERATION (FOR REFERENCE ONLY)												
Low Static	0.1	CFM	*2380*	*2270*	*2210*	*2150*	2075	2000	1930	1860	1780	1700
		RPM	*639*	*619*	*607*	*594*	579	564	547	530	516	501
		kW	*0.69*	*0.71*	*0.72*	*0.73*	0.73	0.73	0.73	0.74	0.73	0.73
	0.2	CFM	*2170*	2050	1978	1905	1823	1740	1640	1540	1433	1325
		RPM	*640*	621	608	595	581	566	549	531	516	501
		kW	*0.70*	0.72	0.72	0.73	0.73	0.73	0.73	0.74	0.73	0.73
	0.3	CFM	1900	1760	1668	1575	1478	1380	1225	*1070*		
		RPM	642	624	610	596	582	567	550	*533*		
		kW	0.71	0.72	0.73	0.73	0.74	0.75	0.75	*0.75*		
Medium Static	0.2	CFM	*2540*	*2412*	*2326*	*2240*	*2145*	**2050**	**1960**	**1870**	**1765**	**1660**
		RPM	*706*	*683*	*670*	*656*	*639*	**621**	**605**	**589**	**571**	**552**
		kW	*0.72*	*0.73*	*0.73*	*0.72*	*0.71*	**0.70**	**0.70**	**0.71**	**0.71**	**0.71**
	0.3	CFM	*2330*	*2186*	**2078**	**1970**	**1870**	**1770**	**1665**	**1560**	**1415**	**1270**
		RPM	*710*	*687*	**672**	**657**	**640**	**622**	**606**	**590**	**572**	**553**
		kW	*0.72*	*0.72*	**0.72**	**0.72**	**0.71**	**0.70**	**0.71**	**0.72**	**0.72**	**0.71**
	0.4	CFM	**2080**	**1890**	**1775**	**1660**	**1525**	**1390**	**1280**	**1170**		
		RPM	**711**	**688**	**674**	**659**	**641**	**622**	**607**	**591**		
		kW	**0.72**	**0.72**	**0.72**	**0.72**	**0.72**	**0.71**	**0.72**	**0.73**		
	0.5	CFM	**1770**	**1560**								
		RPM	**716**	**689**								
		kW	**0.73**	**0.72**								

NOTES:
* Denotes Recommended Sheave Setting.
Values include losses for 2" standard air filters, unit casing, and dry evaporator coil.
For 208V operation deduct approximately 0.5% from CFM shown.

FACTORY STATIC DRIVE CONSISTS OF:
12" x 12" FC Blower, 2 HP / 2 Speed Motor
1VP40 Sheave, BK70 Pulley, and B56 Belt.
MEDIUM STATIC DRIVE (OPTIONAL) CONSISTS OF:
Same except uses BK77 Blower Pulley.

R7TQ-090C/D/N SERIES

2 HP, 2 SPEED, DOWNFLOW BLOWER DATA
Factory Standard Static Drive

EXTERNAL UNIT STATIC (IN WC)	OPERATING @ 230V, 460V OR 575V	ADJUSTABLE MOTOR SHEAVE SETTING										
		FULLY CLOSED	1/2 TURN OPEN	1 TURN OPEN	1.5 TURNS OPEN	2 TURNS OPEN	2.5 TURNS OPEN	3 TURNS OPEN*	3.5 TURNS OPEN	4 TURN OPEN	4.5 TURNS OPEN	5 TURNS OPEN
HIGH SPEED OPERATION												
0.1	CFM							*3505*	**3368**	**3230**	**3148**	**3065**
	RPM							*827*	**806**	**784**	**762**	**739**
	kW							*1.66*	**1.51**	**1.36**	**1.31**	**1.27**
0.2	CFM						*3460*	**3346**	**3238**	**3130**	**3024**	**2917**
	RPM						*850*	**828**	**807**	**785**	**763**	**740**
	kW						*2.00*	**1.63**	**1.46**	**1.30**	**1.20**	**1.11**
0.3	CFM					*3425*	**3320**	**3214**	**3088**	**2963**	*2850*	*2745*
	RPM					*873*	**851**	**829**	**808**	**786**	*764*	*742*
	kW					*1.81*	**1.69**	**1.57**	**1.42**	**1.27**	*1.17*	*1.08*
0.4	CFM			*3480*	**3375**	**3270**	**3176**	**3081**	**2938**	*2795*		
	RPM			*911*	**893**	**874**	**852**	**830**	**809**	*787*		
	kW			*2.03*	**1.89**	**1.76**	**1.63**	**1.50**	**1.37**	*1.24*		
0.5	CFM			**3338**	**3228**	**3118**	**2964**	*2810*				
	RPM			**913**	**894**	**875**	**854**	*832*				
	kW			**1.95**	**1.81**	**1.68**	**1.54**	*1.40*				
0.6	CFM		**3280**	**3195**	**3080**	**2965**	*2750*					
	RPM		**931.5**	**914**	**895**	**876**	*855*					
	kW		**1.98**	**1.86**	**1.73**	**1.60**	*1.45*					
0.7	CFM	*3200*	**3075**	**2950**	*2780*							
	RPM	*951*	**934**	**917**	*899*							
	kW	*1.99*	**1.87**	**1.75**	*1.57*							
0.8	CFM	**3035**	*2870*	*2705*								
	RPM	**952**	*935.5*	*919*								
	kW	**1.88**	*1.75*	*1.63*								
0.9	CFM											
	RPM											
	kW											
LOW SPEED OPERATION (FOR REFERENCE ONLY)												
0.1	CFM	**2530**	**2470**	**2410**	**2355**	**2300**	**2220**	**2140**	**2061**	**1982**	*1664*	*1345*
	RPM	**628**	**617**	**606**	**594**	**582**	**567**	**552**	**536**	**520**	*506*	*491*
	kW	**0.90**	**0.85**	**0.80**	**0.77**	**0.73**	**0.67**	**0.60**	**0.58**	**0.57**	*0.52*	*0.48*
0.2	CFM	**2340**	**2280**	**2220**	**2138**	**2055**	**1973**	*1890*	*1745*	*1600*		
	RPM	**629**	**618**	**607**	**595**	**583**	**568**	*553*	*537*	*521*		
	kW	**0.73**	**0.75**	**0.78**	**0.71**	**0.65**	**0.61**	*0.57*	*0.56*	*0.56*		
0.3	CFM	**2025**	**1998**	**1970**	*1795*	*1620*						
	RPM	**631**	**620**	**609**	*596*	*584*						
	kW	**0.73**	**0.72**	**0.72**	*0.66*	*0.61*						
0.4	CFM	*1710*	*1715*	*1720*								
	RPM	*632*	*621*	*610*								
	kW	*0.73*	*0.70*	*0.66*								

NOTES:
* Denotes Recommended Sheave Setting.
Boldface type indicates factory recommended blower operating range.
Values include losses for 2" standard air filters, unit casing, and dry evaporator coil.
For 208V operation deduct approximately 0.5% from CFM shown.

FACTORY STATIC DRIVE CONSISTS OF:
15" x 15" FC Blower
2 HP / 2 Speed Motor 1 1VP4O Sheave
BK77 Pulley and B56 Belt.

BLOWER PERFORMANCE DATA

R7TQ-090C/D/N SERIES

2 HP / 2 SPEED, HORIZONTAL BLOWER DATA
DRIVE CHANGE REQUIRED, SEE NOTE

EXTERNAL UNIT STATIC (IN WC)	OPERATING @ 230V, 460V OR 575V	ADJUSTABLE MOTOR SHEAVE SETTING										
		FULLY CLOSED	1 TURN OPEN	1.5 TURNS OPEN	2 TURNS OPEN	2.5 TURNS OPEN	3 TURNS OPEN	3.5 TURNS OPEN	4 TURNS OPEN	4.5 TURNS OPEN	5 TURNS OPEN*	5.5 TURNS OPEN
HIGH SPEED OPERATION												
0.1	CFM									*3775*	**3640**	**3500**
	RPM									*686*	**665**	**648**
	kW									*1.44*	**1.38**	**1.18**
0.2	CFM							*3880*	*3730*	**3595**	**3460**	**3260**
	RPM							*728*	*707*	**687**	**666**	**648**
	kW							*1.52*	*1.43*	**1.37**	**1.32**	**1.11**
0.3	CFM						*3830*	**3685**	**3540**	**3365**	**3190**	**3020**
	RPM						*752*	**730**	**707**	**688**	**668**	**649**
	kW						*1.53*	**1.44**	**1.34**	**1.29**	**1.24**	**1.04**
0.4	CFM				*3890*	*3758*	**3625**	**3448**	**3270**	**3095**	**2920**	*2690*
	RPM				*790*	*772*	**754**	**732**	**709**	**689**	**668**	*650*
	kW				*1.75*	*1.61*	**1.46**	**1.37**	**1.27**	**1.19**	**1.11**	*0.96*
0.5	CFM			*3820*	**3680**	**3530**	**3380**	**3170**	**2960**	*2590*		
	RPM			*809*	**793**	**774**	**755**	**733**	**711**	*691*		
	kW			*1.81*	**1.67**	**1.52**	**1.37**	**1.27**	**1.17**	*1.08*		
0.6	CFM		*3780*	**3610**	**3440**	**3255**	**3070**					
	RPM		*826*	**810**	**793**	**774**	**755**					
	kW		*1.87*	**1.71**	**1.56**	**1.40**	**1.25**					
0.7	CFM		**3480**	**3225**	**2970**	*2650*						
	RPM		**828**	**811**	**794**	*779*						
	kW		**1.75**	**1.57**	**1.40**	*1.22*						
0.8	CFM		**2900**	*2640*								
	RPM		**833**	*816*								
	kW		**1.48**	*1.34*								
0.9	CFM		*2440*									
	RPM		*834*									
	kW		*1.33*									
1.0	CFM											
	RPM											
	kW											
LOW SPEED OPERATION (FOR REFERENCE ONLY)												
0.1	CFM		*2900*	*2810*	*2720*	*2630*	*2540*	**2455**	**2370**	**2250**	**2130**	**2020**
	RPM		*558*	*545*	*532*	*518*	*504*	**493**	**481**	**465**	**449**	**437**
	kW		*0.77*	*0.74*	*0.71*	*0.66*	*0.61*	**0.57**	**0.52**	**0.52**	**0.51**	**0.47**
0.2	CFM		*2620*	*2515*	**2410**	**2300**	**2190**	**2080**	**1970**	**1730**	**1490**	**1385**
	RPM		*559*	*546*	**533**	**520**	**507**	**495**	**482**	**467**	**452**	**438**
	kW		*0.71*	*0.68*	**0.65**	**0.60**	**0.55**	**0.56**	**0.57**	**0.50**	**0.43**	**0.40**
0.3	CFM		**2250**	**2020**	*1790*	*1653*	*1515*	*1398*	*1280*	*1145*	*1010*	*900*
	RPM		**563**	**550**	*536*	*524*	*511*	*498*	*484*	*468*	*452*	*438*
	kW		**0.63**	**0.59**	*0.54*	*0.50*	*0.46*	*0.42*	*0.39*	*0.39*	*0.39*	*0.36*
0.4	CFM		*1570*	*1460*	*1350*	*1230*	*1110*	*930*	*750*			
	RPM		*565*	*552*	*538*	*525*	*512*	*499*	*485*			
	kW		*0.53*	*0.51*	*0.49*	*0.45*	*0.41*	*0.38*	*0.35*			

NOTES:

* Denotes Recommended Sheave Setting.
Boldface type indicates factory recommended blower operating range.
Values include losses for 2" standard air filters, unit casing, and dry evaporator coil.
For 208V operation deduct approximately 0.5% from CFM shown.

FACTORY STATIC DRIVE CONSISTS OF:

15" x 15" FC Blower
2 HP / 2 Speed Motor, 1VP40 Sheave
BK70 Pulley and B56 Belt

BLOWER PERFORMANCE DATA

R7TQ-120C/D/N SERIES

2 HP, 2 SPEED, DOWNFLOW BLOWER DATA

Factory Standard Static Drive:

HIGH SPEED OPERATION

EXTERNAL UNIT STATIC (IN WC)	OPERATING @ 230V, 460V, OR 575V	ADJUSTABLE MOTOR SHEAVE SETTING								
		1 TURN OPEN	1.5 TURNS OPEN	2 TURNS OPEN	2.5 TURNS OPEN	3 TURNS OPEN	3.5 TURNS OPEN*	4 TURNS OPEN	4.5 TURNS OPEN	5 TURNS OPEN
0.1	CFM						3755	3620	3505	3390
	RPM						871	849	826	802
	kW						2.05	1.86	1.73	1.59
0.2	CFM						3625	3520	3395	3270
	RPM						871	849	826	803
	kW						1.90	1.74	1.63	1.52
0.3	CFM						3480	3355	3275	3195
	RPM						873	851	827	804
	kW						1.88	1.71	1.60	1.49
0.4	CFM					3480	3335	3190	3155	3120
	RPM					897	875	852	829	805
	kW					2.02	1.85	1.68	1.57	1.46
0.5	CFM				3455	3295	3165	3035	2885	2735
	RPM				922	899	876	854	831	808
	kW				2.08	1.92	1.75	1.58	1.44	1.30
0.6	CFM				3270	3110	3000	2880		
	RPM				924	900	878	855		
	kW				1.98	1.83	1.65	1.48		
0.7	CFM			3160	3015	2865				
	RPM			950	926	902				
	kW			2.03	1.87	1.71				
0.8	CFM			2890	2754					
	RPM			952	928					
	kW			1.924	1.76					
0.9	CFM									
	RPM									
	kW									

LOW SPEED OPERATION - FOR REFERENCE ONLY

EXTERNAL UNIT STATIC (IN WC)	OPERATING @ 230V, 460V, OR 575V	ADJUSTABLE MOTOR SHEAVE SETTING								
		1 TURN OPEN	1.5 TURNS OPEN	2 TURNS OPEN	2.5 TURNS OPEN	3 TURNS OPEN	3.5 TURNS OPEN †	4 TURNS OPEN	4.5 TURNS OPEN	5 TURNS OPEN
0.1	CFM			2560	2475	2390	2310	2230	2157	2083
	RPM			627	612	596	582	568	551	533
	kW			0.95	0.88	0.82	0.76	0.70	2.05	3.40
0.2	CFM			2350	2275	2200	2110	2020	1918	1815
	RPM			628	613	598	584	569	552	534
	kW			0.94	0.86	0.77	0.71	0.66	2.03	3.40
0.3	CFM			2033	1909	1785	1688	1590		
	RPM			630	614	599	585	570		
	kW			0.85	0.78	0.71	0.67	0.63		
0.4	CFM			1715						
	RPM			631						
	kW			0.75						

NOTES:

* Denotes Recommended Sheave Setting.

Boldface type indicates factory recommended blower operating range.

Values include losses for 2" standard air filters, unit casing, and dry evaporator coil.

For 208V operation deduct approximately 0.5% from CFM shown.

FACTORY STATIC DRIVE CONSISTS OF:

15" x 15" FC Blower

2 HP / 2 Speed Motor, 1VP40 Sheave

BK70 Pulley and B56 Belt

BLOWER PERFORMANCE DATA

R7TQ-120C/D/N SERIES

2 HP, 2 SPEED, HORIZONTAL BLOWER DATA
DRIVE CHANGE REQUIRED, SEE NOTE

HIGH SPEED OPERATION

EXTERNAL UNIT STATIC (IN WC)	OPERATING @ 230V, 460V, OR 575V	ADJUSTABLE MOTOR SHEAVE SETTING										
		FULLY CLOSED	1 TURN OPEN	1.5 TURNS OPEN	2 TURNS OPEN	2.5 TURNS OPEN	3 TURNS OPEN	3.5 TURNS OPEN	4 TURNS OPEN*	4.5 TURNS OPEN	5 TURNS OPEN	5.5 TURNS OPEN
0.1	CFM									*3775*	**3640**	**3500**
	RPM									*686*	**665**	**648**
	kW									*1.44*	**1.38**	**1.18**
0.2	CFM						*4030*	*3880*	*3730*	**3595**	**3460**	**3260**
	RPM						*749*	*728*	*707*	**687**	**666**	**648**
	kW						*1.62*	*1.52*	*1.43*	**1.37**	**1.32**	**1.11**
0.3	CFM				*4080*	*3955*	*3830*	**3685**	**3540**	**3365**	**3190**	**3020**
	RPM				*788*	*770*	*752*	**730**	**707**	**688**	**668**	**649**
	kW				*1.84*	*1.69*	*1.53*	**1.44**	**1.34**	**1.29**	**1.24**	**1.04**
0.4	CFM		*4140*	*4015*	*3890*	*3758*	**3625**	**3448**	**3270**	**3095**	**2920**	*2690*
	RPM		*823*	*807*	*790*	*772*	**754**	**732**	**709**	**689**	**668**	*650*
	kW		*2.04*	*1.90*	*1.75*	*1.61*	**1.46**	**1.37**	**1.27**	**1.19**	**1.11**	*0.96*
0.5	CFM		*3960*	*3820*	**3680**	**3530**	**3380**	**3170**	**2960**	*2590*		
	RPM		*824*	*809*	**793**	**774**	**755**	**733**	**711**	*691*		
	kW		*1.95*	*1.81*	**1.67**	**1.52**	**1.37**	**1.27**	**1.17**	*1.08*		
0.6	CFM		*3780*	**3610**	**3440**	**3255**	**3070**					
	RPM		*826*	**810**	**793**	**774**	**755**					
	kW		*1.87*	**1.71**	**1.56**	**1.40**	**1.25**					
0.7	CFM		**3480**	**3225**	**2970**	*2650*						
	RPM		**828**	**811**	**794**	*779*						
	kW		**1.75**	**1.57**	**1.40**	*1.22*						
0.8	CFM		**2900**	**2640**								
	RPM		**833**	**816**								
	kW		**1.48**	**1.34**								
0.9	CFM		*2440*									
	RPM		*834*									
	kW		*1.33*									
1.0	CFM											
	RPM											
	kW											

LOW SPEED OPERATION - FOR REFERENCE ONLY

EXTERNAL UNIT STATIC (IN WC)	OPERATING @ 230V, 460V, OR 575V	ADJUSTABLE MOTOR SHEAVE SETTING										
		FULLY CLOSED	1 TURN OPEN	1.5 TURNS OPEN	2 TURNS OPEN	2.5 TURNS OPEN	3 TURNS OPEN	3.5 TURNS OPEN	4 TURNS OPEN †	4.5 TURNS OPEN	5 TURNS OPEN	5.5 TURNS OPEN
0.1	CFM		*2900*	*2810*	*2720*	*2630*	*2540*	**2455**	**2370**	**2250**	**2130**	**2020**
	RPM		*558*	*545*	*532*	*518*	*504*	**493**	**481**	**465**	**449**	**437**
	kW		*0.77*	*0.74*	*0.71*	*0.66*	*0.61*	**0.57**	**0.52**	**0.52**	**0.51**	**0.47**
0.2	CFM		2620	2515	**2410**	**2300**	**2190**	**2080**	**1970**	**1730**	**1490**	**1385**
	RPM		559	546	**533**	**520**	**507**	**495**	**482**	**467**	**452**	**438**
	kW		0.71	0.68	**0.65**	**0.60**	**0.55**	**0.56**	**0.57**	**0.50**	**0.43**	**0.40**
0.3	CFM		**2250**	**2020**	*1790*	*1653*	*1515*	*1398*	*1280*	*1145*	*1010*	*900*
	RPM		**563**	**550**	*536*	*524*	*511*	*498*	*484*	*468*	*452*	*438*
	kW		**0.63**	**0.59**	*0.54*	*0.50*	*0.46*	*0.42*	*0.39*	*0.39*	*0.39*	*0.36*
0.4	CFM		*1570*	*1460*	*1350*	*1230*	*1110*	*930*	*750*			
	RPM		*565*	*552*	*538*	*525*	*512*	*499*	*485*			
	kW		*0.53*	*0.51*	*0.49*	*0.45*	*0.41*	*0.38*	*0.35*			

NOTES:

* Denotes Recommended Sheave Setting.
Boldface type indicates factory recommended blower operating range.
Values include losses for 2" standard air filters, unit casing, and dry evaporator coil.
For 208V operation deduct approximately 0.5% from CFM shown.

FACTORY STATIC DRIVE CONSISTS OF:

15" x 15" FC Blower
2 HP / 2 Speed Motor, 1VP40 Sheave
BK70 Pulley and B56 Belt

R7TQ090C/D/N* Series High Static Drive

7.5 TON HIGH STATIC DRIVE - DOWNFLOW																															
ESP		0.1			0.2			0.3			0.4			0.5			0.6			0.7			0.8			0.9			1.0		
SPEED TAP	TORQUE VALUE	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW
1-Low	**500**	**2100**	**554**	**0.55**	**2000**	**589**	**0.57**	**1890**	**620**	**0.60**	*1745*	*648*	*0.74*																		
2-Low	600	**2395**	**610**	**0.74**	**2306**	**637**	**0.77**	**2204**	**662**	**0.81**	**2032**	**690**	**0.86**	**1950**	**721**	**0.91**															
3-High	1125	**3445**	**8215**	**1.71**	**3380**	**838**	**1.72**	**3325**	**854**	**1.75**	**3235**	**874**	**1.78**	**3175**	**895**	**1.81**	**3095**	**913**	**1.87**	**3040**	**933**	**1.92**	**2940**	**957**	**1.93**	**2845**	**975**	**1.97**	*2755*	*988*	*1.97*
4-High	**1250**				**3595**	**877**	**1.98**	**3530**	**894**	**2.01**	**3450**	**913**	**2.05**	**3385**	**931**	**2.07**	**3335**	**946**	**2.14**	**3275**	**965**	**2.17**	**3165**	**984**	**2.17**	**3030**	**998**	**2.17**	**2925**	**1007**	**2.14**
5-High	1450													*3670*	*975*	*2.41*	**3620**	**985**	**2.44**	**3550**	**1000**	**2.44**	**3370**	**1005**	**2.37**	**3150**	**1008**	**2.29**	**3010**	**1011**	**2.20**

7.5 TON HIGH STATIC DRIVE - HORIZONTAL																															
ESP		0.1			0.2			0.3			0.4			0.5			0.6			0.7			0.8			0.9			1.0		
SPEED TAP	TORQUE VALUE	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW
1-Low	**350**	**2125**	**441**	**0.39**	**2010**	**481**	**0.42**	**1845**	**527**	**0.45**	*1665*	*576*	*0.48*	*1545*	*604*	*0.51*															
2-Low	440	*2455*	*489*	*0.5*	*2360*	*522*	*0.53*	**2265**	**554**	**0.56**	**2100**	**608**	**0.6**	**1950**	**643**	**0.64**															
3-High	**825**	**3518**	**640**	**1.02**	**3435**	**661**	**1.04**	**3350**	**684**	**1.08**	**3281**	**707**	**1.11**	**3213**	**730**	**1.14**	**3135**	**753**	**1.18**	**3058**	**776**	**1.22**	**2943**	**812**	**1.28**	*2829*	*849*	*1.33*	*2718*	*877*	*1.36*
4-High	900	*3690*	*665*	*1.13*	**3600**	**688**	**1.17**	**3530**	**709**	**1.20**	**3465**	**733**	**1.23**	**3400**	**757**	**1.26**	**3330**	**776**	**1.31**	**3260**	**794**	**1.36**	**3185**	**819**	**1.40**	**3110**	**844**	**1.44**	**2975**	**882**	**1.48**
5-High	1000	*1845*	*333*	*0.57*	*3840*	*710*	*1.32*	*3750*	*730*	*1.38*	*3690*	*759*	*1.40*	**3630**	**774**	**1.42**	**3560**	**799**	**1.46**	**3510**	**818**	**1.5**	**3440**	**944**	**1.53**	**3360**	**865**	**1.58**	**3260**	**889**	**1.61**

NOTES:

1. Factory recommended settings are in bold.
2. Shaded areas are not recommended or approved for proper operation of equipment.
3. 7.5 Ton High Static Drive Consists of: 3 HP ECM Motor and Controller, BK45 Motor Pulley, BK77 Blower Pulley, and B56 Belt. See Accessory offering in Technical Sales Literature.

R7TQ120C/D/N* Series High Static Drive

10 TON HIGH STATIC DRIVE - DOWNFLOW																															
ESP		0.1			0.2			0.3			0.4			0.5			0.6			0.7			0.8			0.9			1.0		
SPEED TAP	TORQUE VALUE	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW
1-Low	**500**	**2200**	**549**	**0.60**	**2115**	**574**	**0.62**	**1995**	**634**	**0.64**																					
2-Low	600	*2460*	*601*	*0.74*	**2390**	**622**	**0.75**	**2285**	**648**	**0.76**	**2195**	**684**	**0.83**	**2050**	**713**	**0.85**															
3-High	1300	*3680*	*855*	*1.83*	**3635**	**874**	**1.88**	**3560**	**892**	**1.92**	**3480**	**906**	**1.97**	**3430**	**868**	**1.94**	**3390**	**937**	**1.99**	**3335**	**953**	**2.01**	**3275**	**971**	**2.06**	**3230**	**986**	**2.11**	**3170**	**1009**	**2.13**
4-High	**1450**	*3905*	*900*	*2.14*	*3840*	*917*	*2.20*	**3760**	**932**	**2.21**	**3710**	**945**	**2.23**	**3650**	**933**	**2.23**	**3595**	**973**	**2.26**	**3535**	**986**	**2.28**	**3465**	**1000**	**2.31**	**3400**	**1014**	**2.33**	**3335**	**1031**	**2.34**
5-High	1600	*4130*	*945*	*2.45*	*4042*	*961*	*2.51*	*3960*	*973*	*2.50*	*3937*	*984*	*2.50*	**3870**	**997**	**2.52**	**3800**	**1009**	**2.53**	**3735**	**1018**	**2.55**	**3650**	**1029**	**2.56**	**3570**	**1043**	**2.56**	**3505**	**1053**	**2.55**

10 TON HIGH STATIC DRIVE - HORIZONTAL																															
ESP		0.1			0.2			0.3			0.4			0.5			0.6			0.7			0.8			0.9			1.0		
SPEED TAP	TORQUE VALUE	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW
1-Low	**400**	**2300**	**466**	**0.40**	**2180**	**505**	**0.43**	**2100**	**532**	**0.46**	**1930**	**583**	**0.49**	*1760*	*634*	*0.53*	*1655*	*657*	*0.55*												
2-Low	490							*2406*	*569*	*0.56*	**2317**	**601**	**0.58**	**2228**	**633**	**0.61**	**2051**	**675**	**0.65**	**1874**	**716**	**0.69**	**1768**	**738**	**0.70**	**1662**	**760**	**0.72**			
3-High	**1000**	*3775*	*676*	*1.14*	*3710*	*697*	*1.17*	**3645**	**718**	**1.21**	**3580**	**739**	**1.25**	**3515**	**762**	**1.28**	**3450**	**784**	**1.30**	**3385**	**806**	**1.34**	**3320**	**828**	**1.37**	**3245**	**850**	**1.40**	*3170*	*872*	*1.44*
4-High	1100							3850	745	1.37	3790	764	1.40	3730	786	1.43	3670	807	1.46	3600	829	1.50	3530	851	1.53	3460	874	1.57	3390	896	1.60
5-High	1160													*3850*	*802*	*1.53*	*3790*	*821*	*1.57*	*3732*	*842*	*1.60*	**3668**	**862**	**1.63**	**3610**	**879**	**1.66**	**3540**	**904**	**1.70**

NOTES:

1. Factory recommended settings are in bold.
2. Shaded areas are not recommended or approved for proper operation of equipment.
3. 10 Ton High Static Drive Consists of: 3 HP ECM Motor and Controller, BK45 Motor Pulley, BK70 Blower Pulley, and B56 Belt. See Accessory offering in Technical Sales Literature.

EXPANDED RATINGS - COOLING OPERATION

R7TQ-072 (C/D/N) (Two-Stage Compressor-High Speed / High Speed Blower Operation)

O.D.T			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.
2400	75	62	71.4	55.8	5.45	65.8	53.1	6.02	60.2	50.4	6.60	54.6	47.7	7.17
		67	77.6	44.0	5.56	72.0	41.3	6.14	66.4	38.6	6.71	60.7	35.9	7.29
		72	84.8	31.5	5.82	79.2	28.8	6.40	73.6	26.1	6.97	68.0	23.4	7.55
	80	62	70.7	64.7	5.41	64.6	62.4	5.91	58.5	58.5	6.41	52.3	52.3	6.91
		67	76.9	52.9	5.53	70.8	50.6	6.03	64.7	48.3	6.53	58.5	46.0	7.02
		72	84.1	40.4	5.79	78.0	38.1	6.29	71.9	35.8	6.79	65.7	33.5	7.29
2550	75	62	70.2	54.4	5.49	64.6	51.8	6.10	58.9	49	6.70	53.2	46.7	7.31
		67	76.4	42.6	5.61	70.7	40.1	6.21	65.1	37.5	6.82	59.4	34.9	7.42
		72	83.6	30.1	5.87	78.0	27.5	6.48	72.3	24.9	7.08	66.6	22.3	7.68
	80	62	71.3	67.6	5.31	65.1	65.1	5.83	58.9	58.9	6.36	52.7	52.7	6.89
		67	77.5	55.8	5.61	**71.5**	**53.6**	**6.25**	65.1	51.4	6.60	58.9	49.2	7.10
		72	84.7	43.2	5.68	78.5	41.1	6.21	72.3	38.9	6.74	66.1	36.7	7.27
2700	75	62	71.4	53.6	5.88	65.7	51.1	6.52	60.0	48.6	7.15	54.3	46.1	7.78
		67	77.6	41.8	6.00	71.9	39.3	6.63	66.2	36.8	7.26	60.4	34.3	7.90
		72	84.8	29.3	6.26	79.1	26.8	6.89	73.4	24.3	7.53	67.7	21.8	8.16
	80	62	74.2	70.9	5.54	67.9	67.9	6.10	61.7	61.7	6.65	55.4	55.4	7.21
		67	80.4	59.1	5.65	74.1	57.0	6.31	67.9	54.9	6.87	61.6	52.9	7.32
		72	87.6	46.6	5.92	81.3	44.5	6.47	75.1	42.4	7.03	68.8	40.4	7.59

R7TQ-072 (C/D/N) (Two-Stage Compressor-Low Speed / Low Speed Blower Operation)

O.D.T			55°F			65°F			75°F			85°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.
1550	75	62	64.8	41.9	2.93	60.9	43.3	3.18	56.4	42.7	3.45	51.3	40.2	3.75
		67	68.7	31.8	2.84	64.8	33.3	3.09	60.4	32.7	3.37	55.3	30.1	3.67
		72	71.9	23.5	2.90	68.0	24.9	3.14	63.5	24.3	3.42	58.4	21.7	3.72
	80	62	62.3	49.7	2.68	58.9	50.9	3.04	54.8	50.1	3.44	50.2	47.3	3.86
		67	66.3	39.7	2.59	62.9	40.9	2.96	58.8	40.1	3.35	54.2	37.3	3.77
		72	69.4	31.3	2.64	66.0	32.5	3.01	61.9	31.7	3.40	57.3	28.9	3.82
1650	75	62	63.8	44.6	3.07	60.0	46.1	3.26	55.5	45.6	3.48	50.5	43.1	3.73
		67	67.8	34.6	2.98	63.9	36.0	3.18	59.5	35.5	3.39	54.5	33.0	3.64
		72	70.9	26.2	3.03	67.1	27.7	3.23	62.6	27.2	3.45	57.6	24.7	3.69
	80	62	61.3	52.5	2.82	58.0	53.7	3.13	54.0	53.0	3.47	49.4	49.4	3.83
		67	65.3	42.4	2.73	61.9	43.7	3.04	58.0	42.9	3.38	53.4	40.2	3.74
		72	68.4	34.0	2.78	65.1	35.3	3.09	61.1	34.6	3.43	56.5	31.8	3.80
1750	75	62	67.8	45.2	3.21	64.1	46.7	3.35	59.8	46.3	3.52	54.8	43.9	3.71
		67	71.8	35.1	3.13	68.1	36.7	3.26	63.7	36.3	3.43	58.8	33.8	3.62
		72	74.9	26.7	3.18	71.2	28.3	3.31	66.9	27.9	3.48	61.9	25.5	3.67
	80	62	65.4	53.0	2.96	62.1	54.4	3.22	58.2	53.7	3.50	53.7	51.1	3.81
		67	69.4	43.0	2.87	66.1	44.3	3.13	62.2	43.7	3.41	57.7	41.0	3.72
		72	72.5	34.6	2.92	69.2	35.9	3.18	65.3	35.3	3.46	60.8	32.6	3.78

R7TQ-090 (C/D/N) (Two Compressor / High Speed Blower Operation)

O.D.T			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.
2950	75	62	90.6	67.8	7.41	81.1	63.1	8.18	73.6	58.9	9.07	67.9	55.2	10.10
		67	96.7	51.8	7.20	87.3	47.2	7.97	79.7	43.0	8.86	74.1	39.3	9.86
		72	108.0	36.3	7.27	98.7	31.6	8.04	91.2	27.4	8.93	85.5	23.7	9.93
	80	62	92.1	83.7	7.59	81.6	79.2	8.28	73.0	73.0	9.09	66.2	66.2	10.00
		67	98.3	67.8	7.38	87.8	63.2	8.07	79.1	59.2	8.88	72.4	55.6	9.79
		72	110.0	52.2	7.45	99.2	47.7	8.14	90.6	43.6	8.94	83.8	40.1	9.86
3150	75	62	90.9	72.2	7.65	81.1	67.4	8.40	73.2	63.0	9.26	67.1	59.1	10.20
		67	97.0	56.2	7.44	87.2	51.4	8.19	79.3	47.0	9.05	73.3	43.2	10.00
		72	108.0	40.7	7.50	98.7	35.9	8.25	90.8	31.5	9.12	84.7	27.6	10.10
	80	62	95.3	86.7	7.75	84.4	82.0	8.42	75.4	75.4	9.20	68.3	68.3	10.10
		67	101.0	70.7	7.54	**90.4**	**66.0**	**8.20**	81.6	61.7	8.99	74.5	58.0	9.88
		72	113.0	55.2	7.61	102.0	50.4	8.28	93.0	46.2	9.06	85.9	42.5	9.95
3350	75	62	88.3	76.0	7.77	78.2	71.0	8.50	69.9	66.5	9.34	63.5	62.4	10.30
		67	94.5	60.1	7.56	84.3	55.0	8.29	76.1	50.5	9.13	69.7	46.4	10.10
		72	106.0	44.5	7.63	95.8	39.5	8.36	87.5	35.0	9.20	81.1	30.9	10.10
	80	62	95.7	89.0	7.81	84.4	84.1	8.45	75.1	75.1	9.21	67.6	67.6	10.10
		67	102.0	73.0	7.60	90.6	68.1	8.24	81.2	63.7	9.00	73.7	59.8	9.87
		72	113.0	57.5	7.67	102.0	52.6	8.31	92.7	48.2	9.07	85.2	44.3	9.94

1) T.C. = Total (Net) Cooling Capacity, S.C. = Sensible Cooling Capacity, kW = Kilowatts
2) Expanded Ratings are based on 230 Volt - 60 Hz operation
3) Expanded Ratings are based on Factory Standard Blower Drive
4) Bolded Values indicate ARI rating point
5) Energy Efficiency Ratio (EER) = T.C. / kW

EXPANDED RATINGS - COOLING OPERATION

R7TQ-090 (C/D/N) (One Compressor / Low Speed Blower Operation)

O.D.T			55°F			65°F			75°F			85°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.
1800	75	62	49.6	31.1	3.04	50.3	32.2	3.33	47.2	31.0	3.60	40.3	27.8	3.86
		67	50.3	23.6	3.15	51.1	24.6	3.44	48.0	23.5	3.71	41.1	20.2	3.97
		72	54.0	18.1	3.12	54.7	19.1	3.41	51.6	18.0	3.68	44.8	14.7	3.94
	80	62	47.6	35.2	3.10	49.4	36.4	3.35	47.3	35.6	3.59	41.4	32.5	3.81
		67	48.9	28.0	3.21	50.6	29.2	3.46	48.5	28.4	3.70	42.7	25.4	3.92
		72	53.0	22.8	3.18	54.7	24.1	3.43	52.7	23.2	3.67	46.8	20.2	3.90
1900	75	62	52.2	32.7	3.02	52.5	33.5	3.32	48.9	32.1	3.60	41.6	28.7	3.87
		67	53.0	25.1	3.13	53.2	25.9	3.43	49.7	24.6	3.71	42.3	21.1	3.98
		72	56.7	19.6	3.11	56.9	20.4	3.40	53.4	19.1	3.68	46.0	15.6	3.95
	80	62	50.3	36.7	3.09	51.6	37.8	3.34	49.0	36.7	3.59	42.7	33.4	3.82
		67	51.5	29.5	3.20	52.8	30.6	3.45	50.2	29.5	3.70	43.9	26.2	3.93
		72	55.7	24.3	3.17	56.9	25.4	3.43	54.4	24.3	3.67	48.0	21.1	3.90
2000	75	62	53.7	34.0	3.04	53.5	34.6	3.34	49.4	33.0	3.63	41.6	29.3	3.90
		67	54.4	26.4	3.15	54.2	27.0	3.45	50.2	25.5	3.74	42.3	21.8	4.01
		72	58.1	20.9	3.12	57.9	21.5	3.43	53.8	19.9	3.71	46.0	16.2	3.99
	80	62	51.8	38.0	3.10	52.5	38.8	3.37	49.5	37.5	3.62	42.7	34.1	3.86
		67	53.0	30.8	3.21	53.8	31.6	3.48	50.7	30.3	3.73	43.9	26.9	3.97
		72	57.1	25.6	3.19	57.9	26.5	3.45	54.9	25.2	3.70	48.0	21.7	3.94

R7TQ-120 (C/D/N) (Two Compressor / High Speed Blower Operation)

O.D.T			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.
3250	75	62	109.0	76.9	9.31	99.6	72.6	10.40	90.6	68.3	11.70	81.7	64.0	12.90
		67	121.0	62.4	9.36	112.0	58.0	10.40	103.0	53.7	11.70	94.5	49.4	12.90
		72	134.0	43.7	9.46	125.0	39.4	10.60	116.0	35.1	11.80	107.0	30.8	13.00
	80	62	107.0	91.8	9.32	99.3	87.8	10.40	91.2	83.7	11.70	83.2	79.6	12.90
		67	120.0	77.3	9.36	112.0	73.2	10.40	104.0	69.2	11.70	96.0	65.1	12.90
		72	133.0	58.6	9.46	125.0	54.6	10.60	117.0	50.5	11.80	109.0	46.4	13.00
3450	75	62	111.0	80.5	9.39	102.0	75.6	10.40	92.1	70.7	11.70	82.5	65.8	12.90
		67	124.0	66.0	9.44	115.0	61.1	10.60	105.0	56.2	11.80	95.3	51.2	12.90
		72	137.0	47.4	9.53	127.0	42.4	10.70	118.0	37.5	11.90	108.0	32.6	13.00
	80	62	110.0	95.5	9.39	101.0	90.8	10.40	92.7	86.1	11.70	84.0	81.4	12.90
		67	123.0	81.0	9.44	**114.2**	**76.3**	**10.40**	105.0	71.6	11.90	96.8	66.9	12.90
		72	136.0	62.3	9.53	127.0	57.6	10.70	118.0	52.9	11.90	110.0	48.2	13.00
3650	75	62	110.0	80.1	9.83	99.8	74.5	11.00	89.5	69.0	12.10	79.3	63.5	13.20
		67	123.0	65.6	9.88	113.0	60.0	11.00	102.0	54.5	12.20	92.1	48.9	13.30
		72	136.0	46.9	9.98	126.0	41.4	11.10	115.0	35.8	12.30	105.0	30.3	13.40
	80	62	109.0	95.0	9.83	99.4	89.7	11.00	90.1	84.4	12.10	80.9	79.1	13.20
		67	122.0	80.5	9.88	112.0	75.2	11.00	103.0	69.9	12.20	93.7	64.6	13.30
		72	134.0	61.8	9.98	125.0	56.5	11.10	116.0	51.2	12.30	107.0	45.9	13.40

R7TQ-120 (C/D/N) (One Compressor / Low Speed Blower Operation)

O.D.T			55°F			65°F			75°F			85°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.
2100	75	62	59.7	37.4	3.77	55.7	35.5	4.17	51.6	33.6	4.56	47.6	31.6	4.96
		67	65.4	31.2	3.83	61.4	29.3	4.22	57.3	27.4	4.62	53.3	25.4	5.02
		72	71.6	25.4	3.83	67.6	23.5	4.23	63.5	21.6	4.63	59.5	19.7	5.02
	80	62	60.4	43.9	3.64	56.6	41.3	4.08	52.8	38.6	4.52	49.1	36.0	4.95
		67	66.1	37.7	3.70	62.3	35.1	4.13	58.5	32.4	4.57	54.8	29.7	5.01
		72	72.3	32.0	3.70	68.5	29.3	4.14	64.7	26.6	4.58	61.0	24.0	5.02
2200	75	62	60.9	38.4	4.01	56.2	36.5	4.37	51.5	34.5	4.74	46.8	32.6	5.10
		67	66.6	32.2	4.07	61.9	30.2	4.43	57.2	28.3	4.80	52.5	26.4	5.16
		72	72.8	26.4	4.07	68.1	24.5	4.44	63.4	22.5	4.80	58.7	20.6	5.17
	80	62	61.5	44.9	3.88	57.1	42.2	4.29	52.7	39.6	4.69	48.3	36.9	5.10
		67	67.2	38.7	3.94	62.8	36.0	4.34	58.4	33.4	4.75	54.0	30.7	5.16
		72	73.4	32.9	3.95	69.0	30.2	4.35	64.6	27.6	4.76	60.2	24.9	5.16
2300	75	62	63.6	39.6	3.97	58.3	37.6	4.30	53.0	35.7	4.63	47.7	33.8	4.97
		67	69.3	33.3	4.02	64.0	31.4	4.36	58.7	29.5	4.69	53.4	27.6	5.02
		72	75.5	27.6	4.03	70.2	25.6	4.36	64.9	23.7	4.70	59.6	21.8	5.03
	80	62	64.2	46.1	3.84	59.2	43.4	4.21	54.2	40.7	4.59	49.2	38.1	4.96
		67	69.9	39.9	3.89	64.9	37.2	4.27	59.9	34.5	4.64	54.9	31.9	5.02
		72	76.1	34.1	3.90	71.1	31.4	4.28	66.1	28.8	4.65	61.1	26.1	5.03

1) T.C. = Total (Net) Cooling Capacity, S.C. = Sensible Cooling Capacity, kW = Kilowatts
2) Expanded Ratings are based on 230 Volt - 60 Hz operation
3) Expanded Ratings are based on Factory Standard Blower Drive
4) Bolded Values indicate ARI rating point
5) Energy Efficiency Ratio (EER) = T.C. / kW

INVENTORIED BASE SKU'S							
Mat ID, SKU	Material Description	volts	Htg		Mat ID, SKU	Material Description	volts	Htg
1011281	R7TQ072-CLA000A0001B	208-230/60/3	H100		1011283	R7TQ072-DLA000A0001B	460/60/3	H100
1011282	R7TQ072-CHA000A0001B	208-230/60/3	H166		1011284	R7TQ072-DHA000A0001B	460/60/3	H166
1011301	R7TQ090-CLA000A0001B	208-230/60/3	H166		1011304	R7TQ090-DLA000A0001B	460/60/3	H166
1011302	R7TQ090-CMA000A0001B	208-230/60/3	H200		1011305	R7TQ090-DMA000A0001B	460/60/3	H200
1011303	R7TQ090-CHA000A0001B	208-230/60/3	H225		1011306	R7TQ090-DHA000A0001B	460/60/3	H225
1011334	R7TQ120-CLA000A0001B	208-230/60/3	H166		1011337	R7TQ120-DLA000A0001B	460/60/3	H166
1011335	R7TQ120-CMA000A0001B	208-230/60/3	H200		1011338	R7TQ120-DMA000A0001B	460/60/3	H200
1011336	R7TQ120-CHA000A0001B	208-230/60/3	H225		1011339	R7TQ120-DHA000A0001B	460/60/3	H225

STAINLESS STEEL HEAT EXCHANGER					DISCONNECT AND OUTLET			
Mat ID, SKU	Material Description	volts	Htg		Mat ID, SKU	Material Description	volts	Htg
1011295	R7TQ072-CXA000A0001B	208-230/60/3	H100		1011288	R7TQ072-CHA000A0001B	208-230/60/3	H166
1011296	R7TQ072-CZA000A0001B	208-230/60/3	H166		1011287	R7TQ072-CLA000A0001B	208-230/60/3	H100
1011297	R7TQ072-DXA000A0001B	460/60/3	H100		1011289	R7TQ072-DLA000A0001B	460/60/3	H100
1011298	R7TQ072-DZA000A0001B	460/60/3	H166		1011290	R7TQ072-DHA000A0001B	460/60/3	H166
1011322	R7TQ090-CXA000A0001B	208-230/60/3	H166		1011310	R7TQ090-CLA000A0001B	208-230/60/3	H166
1011323	R7TQ090-CYA000A0001B	208-230/60/3	H200		1011311	R7TQ090-CMA000A0001B	208-230/60/3	H200
1011324	R7TQ090-CZA000A0001B	208-230/60/3	H225		1011312	R7TQ090-CHA000A0001B	208-230/60/3	H225
1011325	R7TQ090-DXA000A0001B	460/60/3	H166		1011313	R7TQ090-DLA000A0001B	460/60/3	H166
1011326	R7TQ090-DYA000A0001B	460/60/3	H200		1011314	R7TQ090-DMA000A0001B	460/60/3	H200
1011327	R7TQ090-DZA000A0001B	460/60/3	H225		1011315	R7TQ090-DHA000A0001B	460/60/3	H225
1011355	R7TQ120-CXA000A0001B	208-230/60/3	H166		1011343	R7TQ120-CLA000A0001B	208-230/60/3	H166
1011356	R7TQ120-CYA000A0001B	208-230/60/3	H200		1011344	R7TQ120-CMA000A0001B	208-230/60/3	H200
1011357	R7TQ120-CZA000A0001B	208-230/60/3	H225		1011345	R7TQ120-CHA000A0001B	208-230/60/3	H225
1011358	R7TQ120-DXA000A0001B	460/60/3	H166		1011346	R7TQ120-DLA000A0001B	460/60/3	H166
1011359	R7TQ120-DYA000A0001B	460/60/3	H200		1011347	R7TQ120-DMA000A0001B	460/60/3	H200
1011360	R7TQ120-DZA000A0001B	460/60/3	H225		1011348	R7TQ120-DHA000A0001B	460/60/3	H225

UMPOWERED CONVENIENCE OUTLET					COATED CONDENSER COIL			
Mat ID, SKU	Material Description	volts	Htg		Mat ID, SKU	Material Description	volts	Htg
1011292	R7TQ072-CHA000A1001B	208-230/60/3	H166		1011299	R7TQ072-CLA002A0001B	208-230/60/3	H100
1011291	R7TQ072-CLA000A1001B	208-230/60/3	H100		1011300	R7TQ072-DLA002A0001B	460/60/3	H100
1011294	R7TQ072-DHA000A1001B	460/60/3	H166		1011330	R7TQ090-CHA002A0001B	208-230/60/3	H225
1011293	R7TQ072-DLA000A1001B	460/60/3	H100		1011328	R7TQ090-CLA002A0001B	208-230/60/3	H166
1011318	R7TQ072-CHA000A1001B	208-230/60/3	H225		1011329	R7TQ090-CMA002A0001B	208-230/60/3	H200
1011316	R7TQ072-CLA000A1001B	208-230/60/3	H166		1011333	R7TQ090-DHA002A0001B	460/60/3	H225
1011317	R7TQ072-CMA000A1001B	208-230/60/3	H200		1011331	R7TQ090-DLA002A0001B	460/60/3	H166
1011321	R7TQ072-DHA000A1001B	460/60/3	H225		1011332	R7TQ090-DMA002A0001B	460/60/3	H200
1011319	R7TQ072-DLA000A1001B	460/60/3	H166		1011363	R7TQ090-CHA002A0001B	208-230/60/3	H225
1011320	R7TQ072-DMA000A1001B	460/60/3	H200		1011361	R7TQ090-CLA002A0001B	208-230/60/3	H166
1011351	R7TQ072-CHA000A1001B	208-230/60/3	H225		1011362	R7TQ090-CMA002A0001B	208-230/60/3	H200
1011349	R7TQ072-CLA000A1001B	208-230/60/3	H166		1011366	R7TQ090-DHA002A0001B	460/60/3	H225
1011350	R7TQ072-CMA000A1001B	208-230/60/3	H200		1011364	R7TQ090-DLA002A0001B	460/60/3	H166
1011354	R7TQ072-DHA000A1001B	460/60/3	H225		1011365	R7TQ090-DMA002A0001B	460/60/3	H200
1011352	R7TQ072-DLA000A1001B	460/60/3	H166					
1011353	R7TQ072-DMA000A1001B	460/60/3	H200					

ACCESSORIES

DESCRIPTION	Field SKU
8" Curb	1011391
14" Curb	1011388
18" Curb	1011389
24" Curb	1011390
Convenience Outlet	1011383
Manual Outdoor Air Damper	1011416
Powered Outdoor Air Damper	1011417
Economizer, vertical, with Enthalpy Controller	1011418
Differential Enthelpy control	1011701
RA Mounted CO2 Sensor	1011410
Wall Mounted CO2 Sensor	1011411
Smoke Detector	1011404
Sampling tubes 2-4ft	1011405
Sampling tube 4-8ft	1011406
Filter Upgrade to MERV 8	1011407
Condensate Float Safety Switch	1011396
Low Ambient Control, 6 Ton	1011408
Low Ambient Control, 7.5, 10 Ton	1011409
Low Pressure Switch, 6 Ton	1011412
Low Pressure Switch, 7.5, 10 Ton	1011413
Freezestat, 6 Ton	1011414
Freezestat, 7.5, 10 Ton	1011415
Flue Exhaust Extension	1011384
LP Converstion Kit (< 9K ft Elevation, HX 100, 225) (< 6K ft Elevation, HX 225)	1011435
LP Converstion Kit (< 10K ft Elevation, HX 166 200) (7K-10K ft Elevation, HX 225)	1011436
Natural Gas, High Altitude Converstion (< 9K ft Elevation, HX100) (< 6K ft Elevation, HX166, 200) (< 6K ft Elevation, HX225)	1011437
Natural Gas, High Altitude Converstion (≥ 10K ft Elevation, HX100) (7K-10K ft Elevation, HX166, 200) (7K-10K ft Elevation, HX225)	1011438
Mesh Hail Guard Option, 6 Ton	1011385
Mesh Hail Guard Option, 7.5 Ton	1011386
Mesh Hail Guard Option, 10 Ton	1011387
BacNet Thermostat	1011394
LonWorks Thermostat	1011394
Burglar Bars - Return & Supply	1011382
High Static Drive, Up to 1" WC (7.5-10 Ton) 208/230 volt	1011379
High Static Drive, Up to 1" WC (7.5-10 Ton) 460 volt	1011380
High Static Drive, Up to 1" WC (7.5-10 Ton) 575 volt	1011996
Medium Static Drive, 6 Ton Downflow	1011993
Medium Static Drive, 6 Ton Horizontal	667405
Fusible Disconnect Swith, 60 amp, 600 volt, USA	1011400
Fusible Disconnect Swith, 60 amp, 240 volt, USA	1011397
Fusible Disconnect Swith, 60 amp, 600 volt, Canada	1011402
Hooded Hail Guard	1006379

GENERAL TERMS OF LIMITED WARRANTY

Nortek Global HVAC, LLC will furnish a replacement for any part of this product which fails in normal use and service within the terms and conditions of the warranty.

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

Before purchasing this appliance, read important energy cost and efficiency information available from your retailer. Specifications and illustrations subject to change without notice and without incurring obligations. Printed in U.S.A (02/2018)

724E-0218 (Replaces 724E-1017)