



مشخصات تکمیلی دستگاه های اوپراتور
سری 40RM

با کویل‌های سرمایشی 4 ردیفه



Capacity summary



CONDENSING UNIT	AIR HANDLING UNIT	AIR-HANDLING UNIT AIRFLOW		SYSTEM GROSS CAPACITY (Standard 3-ROW)		SYSTEM GROSS CAPACITY (High-Capacity 4-Row Coil)		CONDENSING UNIT ONLY GROSS CAPACITY	
		L/S	cfm	kW*	Btuh†	kW*	Btuh†	kW**	Btuh††
38AK008	40RM007	1150	2,400	22.6	77,000	23.2	79,000	24.3	81,700
	40RM008	1400	3,000	24.2	82,000	24.7	84,300		
	40RM012	1900	4,000	26.3	89,000	26.5	90,500		
38AK009	40RM008	1400	3,000	28.0	95,000	28.8	98,100	29.9	101,000
	40RM012	1900	4,000	30.6	104,000	31.1	106,200		
38AK012	40RM008	1400	3,000	27.7	94,000	28.8	98,100	29.5	99,200
	40RM012	1900	4,000	30.0	103,000	31.1	106,200		
	40RM014	2350	5,000	31.5	107,000	32.9	112,400		
38AK013	40RM008	1400	3,000	28.3	96,000	30.0	102,400	30.4	102,000
	40RM012	1900	4,000	31.0	105,000	32.4	110,600		
	40RM014	2350	5,000	32.2	109,000	34.3	117,000		
38AK014	40RM012	1900	4,000	35.2	120,000	37.0	126,100	36.6	123,000
	40RM014	2350	5,000	36.8	125,000	39.0	133,000		
	40RM016	2800	6,000	39.1	133,000	41.9	143,000		
38AK016	40RM014	2350	5,000	43.1	146,000	48.4	165,000	45.7	154,000
	40RM016	2800	6,000	46.2	157,000	51.2	174,600		
	40RM024	3800	8,000	49.6	167,000	54.7	186,500		
38AKS024	40RM016	2800	6,000	58.0	197,000	59.5	203,100	64.3	216,000
	40RM024	3800	8,000	63.3	215,000	65.7	224,100		
	40RM028	4700	10,000	67.0	226,000	69.3	236,300		
38AKS028	40RM024	3800	8,000	75.6	256,000	83.8	285,800	82.8	281,000
	40RM28	4700	10,000	80.4	273,000	84.3	287,700		
	40RM034	5650	12,000	84.6	288,000	88.7	302,800		
38AKS034	40RM028	4700	10,000	88.2	298,000	89.9	306,800	94.5	320,000
	40RM034	5650	12,000	93.1	316,000	94.8	323,500		
38AKS044	40RM034	5650	12,000	113.8	385,000	111.8	381,600	127.0	429,000

LEGEND

- db - Dry Bulb
- wb - Wet Bulb
- SST- Saturated Suction Temperature

- * System gross capacities are rated according to indoor unit airflow, 35 C air temperature entering condenser, and 20C wb air temperature entering evaporator.
- † System gross capacities are rated according to indoor unit airflow, 95 F air temperature entering condenser, and 67 F wb air temperature entering evaporator.
- ** Condensing unit gross capacity based on 36 C air temperature entering condenser and 8 C SST.
- † † Condensing unit gross capacity based on 95 F air temperature entering condenser and 45 F SST.

Physical data



40RM

UNIT 40RM	007	008	012	014	016	024	028	034
NOMONAL CAPACITY (tons)	6	7 ½	10	12 ½	15	20	25	30
OPERATING WEIGHT (lb)								
Base Unit With TXV 3 Row/4 - Row Plenum	381/399	385/404	405/425	670/695	685/713	690/730	1020/1050	1030/1062
	175	175	175	225	225	225	325	325
FANS								
Qty ... Dia. (in.)	1...15	1...15	1...15	2...15	2...15	2...15	2...18	2...18
Nominal Airflow (cfm)	2400	3000	4000	5000	6000	8000	10,000	12,000
Airflow range (cfm)	1800-3000	2250-3750	3000-5000	3750-6250	4500-7500	6000-10,000	7500-12,500	9000-15,000
Nominal Motor Hp (Standard Motor) 230-3-50, 400-3-50	2.4	2.4	2.9	2.9	2.9	5.0	7.5	10.0
Motor Speed (rpm) 230-3-50, 400-3-50					1425			
REFRIGERANT					R-22			
Operating charge (lb) (approx per circuit)*	3.0	3.0	1.5/1.5	2.0/2.0	2.5/2.5	3.5/3.5	4.5/4.5	5.0/5.0
DIRECT-EXPANSION COIL								
Max Working Pressure (psig)								
Face Area (sq ft)	6.67	8.33	10.0	13.25	17.67	19.88	24.86	29.83
No. of Splits	1	1	2	2	2	2	2	2
Split Type .. percentage	—	—				FACE...50/50		
No. of Circuits per split (3Row/4Row) Fins/in.	12/12	15/15	9/9	9/12	12/16	13/18	15/20	18/24
	15	15	17	15	15	17	15	15
STEAM COIL								
Max Working pressure (psig at 400F)					175			
Total Face Area (sq ft)	6.67	6.67	6.67	13.33	13.33	13.33	15.0	15.0
Rows .. Fins/in.	1...9	1...9	1...9	1...10	1...10	1...10	1...10	1...10
HOT WATER COIL								
Max Working pressure (psig)					150			
Total Face Area (sq ft)	6.67	6.67	6.67	13.33	13.33	13.33	15.0	15.0
Rows .. Fins/in.	2...8.5	2...8.5	2...8.5	2...8.5	2...8.5	2...8.5	2...12.5	2...12.5
Water Volume (gal) (ft³)		8.3			13.9		14.3	
		1.1			1.85		1.90	
PIPING CONNECTIONS,								
Quantity ... size (in.)								
DX Coil – Suction (ODF)	1...1 ⅝	1...1 ⅝	2...1 ⅝	2...1 ⅝	2...1 ⅝	2...1 ⅝	2...1 ⅝	2...1 ⅝
DX Coil – Liquid Refrigerant (ODF)						2... ⅝		
Steam Coil, in (MPT)						1...2 ½		
Steam Coil, Out (MPT)						1...2 ½		
Hot Water Coil, in (MPT)			1...1 ½				1...2	
Hot Water Coil, Out (MPT)			1...1 ½				1...2	
Condensate					1...1 ¼			
FILTERS								
Quantity... Size (in.)		4...16 × 24 × 2			Throwaway – Factory supplied 4...16 × 20 × 2		4...20 × 24 × 2	
Access Location					4...16 × 24 × 2		4...20 × 25 × 2	
					Right or Left side			

LEGEND

TXV — Thermostatic Expansion Valve

*Units are shipped without refrigerant charge.

Performance data



COMBINATION RATINGS – 4-ROW HIGH-CAPACITY COILS

38AK008/40RM007 WITH 4-ROW HIGH CAPACITY COIL										
Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm								
		1800			2400			3000		
		Evaporator Air – Ewb (F)								
		62	67	72	62	67	72	62	67	72
85	TC	71.5	78.4	85.6	75.7	82.7	90.0	78.6	85.6	93.0
	SHC	60.3	51.0	41.4	69.8	58.2	45.8	78.6	64.8	49.9
	KW	5.40	5.60	5.79	5.53	5.72	5.90	5.61	5.80	5.98
95	TC	68.3	74.9	81.9	72.4	79.0	86.0	75.3	81.6	88.8
	SHC	58.8	49.5	39.9	68.2	56.7	44.3	75.3	63.3	48.4
	KW	5.82	6.06	6.29	5.97	6.20	6.42	6.07	6.28	6.51
100	TC	66.7	73.2	80.0	70.6	77.1	84.0	73.7	79.5	86.6
	SHC	58.0	48.8	39.1	67.4	55.9	43.6	73.7	62.4	47.7
	KW	6.02	6.28	6.53	6.18	6.43	6.67	6.30	6.51	6.76
105	TC	65.1	71.4	78.1	68.9	75.2	81.9	72.2	77.5	84.4
	SHC	57.2	48.0	38.4	66.5	55.2	42.9	72.2	61.7	46.9
	KW	6.22	6.49	6.76	6.38	6.65	6.91	6.52	6.74	7.00
115	TC	61.8	67.8	74.2	65.1	71.1	77.7	69.0	73.3	79.9
	SHC	55.6	46.5	36.9	65.1	53.6	41.4	69.0	60.0	45.3
	KW	6.63	6.93	7.23	6.79	7.09	7.40	6.99	7.20	7.49

38AK008/40RM008 WITH 4-ROW HIGH CAPACITY COIL										
Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm								
		2250			3000			3750		
		Evaporator Air – Ewb (F)								
		62	67	72	62	67	72	62	67	72
85	TC	77.3	84.5	92.1	81.3	88.5	96.3	86.0	91.1	98.9
	SHC	69.6	58.0	45.9	81.3	66.8	51.4	86.0	74.8	56.3
	KW	5.61	5.81	6.00	5.72	5.92	6.11	5.84	5.98	6.17
95	TC	73.7	80.8	88.2	78.0	84.3	91.8	82.5	86.7	94.3
	SHC	67.9	56.5	44.4	78.0	65.2	49.8	82.5	73.1	54.8
	KW	6.06	6.30	6.53	6.20	6.41	6.65	6.35	6.49	6.72
100	TC	72.0	78.8	86.1	76.3	82.2	89.6	80.7	84.6	91.9
	SHC	67.0	55.7	43.7	76.3	64.4	49.0	80.7	72.3	54.0
	KW	6.27	6.53	6.79	6.43	6.65	6.90	6.59	6.74	6.98
105	TC	70.1	76.8	84.0	74.7	80.1	87.3	78.9	82.4	89.5
	SHC	66.2	54.9	42.9	74.7	63.5	48.2	78.9	71.4	53.2
	KW	6.48	6.75	7.03	6.67	6.88	7.15	6.83	6.97	7.24
115	TC	66.4	72.7	79.6	71.3	75.8	82.7	75.3	77.8	84.7
	SHC	64.3	53.3	41.3	71.3	61.9	46.6	75.3	69.5	51.6
	KW	6.90	7.21	7.52	7.14	7.36	7.66	7.33	7.45	7.76

38AK009/40RM008 WITH 4-ROW HIGH CAPACITY COIL										
Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm								
		2250			3000			3750		
		Evaporator Air – Ewb (F)								
		62	67	72	62	67	72	62	67	72
85	TC	89.1	97.7	106.7	94.2	103.0	112.2	98.0	106.7	115.9
	SHC	75.2	63.5	51.5	87.1	72.6	57.0	98.0	80.8	62.1
	KW	7.21	7.52	7.82	7.40	7.70	8.01	7.54	7.83	8.13
95	TC	84.9	93.2	101.9	89.9	98.1	107.0	93.7	101.4	110.4
	SHC	73.2	61.6	49.5	85.0	70.6	55.1	93.7	78.8	60.2
	KW	7.73	8.08	8.43	7.94	8.28	8.62	8.10	8.42	8.76
100	TC	82.7	90.9	99.4	87.6	95.7	104.3	91.6	98.8	107.6
	SHC	72.1	60.7	48.6	83.9	69.6	54.1	91.6	77.8	59.3
	KW	7.98	8.35	8.72	8.21	8.56	8.93	8.38	8.70	9.07
105	TC	80.6	88.5	96.9	85.3	93.2	101.7	89.6	96.1	104.7
	SHC	71.1	59.7	47.6	82.6	68.6	53.2	89.6	76.7	58.2
	KW	8.24	8.63	9.02	8.48	8.86	9.24	8.67	8.99	9.37
115	TC	76.3	83.8	91.8	80.6	88.0	96.1	85.4	90.6	98.8
	SHC	69.1	57.7	45.7	80.6	66.6	51.2	85.4	74.7	56.2
	KW	8.75	9.17	9.60	8.99	9.40	9.84	9.26	9.54	9.98

38AK008/40RM012 WITH 4-ROW HIGH CAPACITY COIL										
Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm								
		3000			4000			5000		
		Evaporator Air – Ewb (F)								
		62	67	72	62	67	72	62	67	72
85	TC	85.9	91.7	99.6	92.2	95.0	102.6	96.5	97.5	104.7
	SHC	85.9	70.7	53.8	92.2	81.7	60.6	96.5	91.7	67.3
	KW	5.88	6.03	6.22	6.04	6.11	6.28	6.15	6.17	6.33
95	TC	82.5	87.4	95.0	88.4	90.5	97.6	92.4	92.9	99.5
	SHC	82.5	69.1	52.1	88.4	80.0	59.0	92.4	89.8	65.7
	KW	6.38	6.54	6.77	6.57	6.64	6.85	6.69	6.71	6.90
100	TC	80.8	85.2	92.6	86.5	88.2	95.2	90.3	90.6	96.9
	SHC	80.8	68.3	51.3	86.5	79.1	58.2	90.3	88.5	64.8
	KW	6.62	6.78	7.03	6.83	6.88	7.11	6.95	6.96	7.16
105	TC	79.0	83.1	90.2	84.5	85.9	92.6	88.2	88.4	94.3
	SHC	79.0	67.4	50.5	84.5	78.0	57.4	88.2	87.4	64.0
	KW	6.86	7.02	7.29	7.08	7.12	7.37	7.21	7.22	7.42
115	TC	75.3	78.5	85.3	80.4	81.3	87.4	83.9	83.9	88.9
	SHC	75.3	65.6	48.9	80.4	76.3	55.7	83.9	83.9	62.4
	KW	7.35	7.50	7.81	7.58	7.62	7.89	7.74	7.74	7.95

Performance data (cont.)



COMBINATION RATINGS – 4-ROW HIGH-CAPACITY COILS (cont.)

38AK009/40RM012 WITH 4-ROW HIGH CAPACITY COIL										
Temp (F) Air Entering Condenser (Edb)	Evaporator Air – Cfm									
	3000			4000			5000			
	Evaporator Air – Ewb (F)									
	62	67	72	62	67	72	62	67	72	
85	TC	99.3	107.5	117.3	105.8	111.8	121.5	111.5	115.0	124.2
	SHC	92.8	76.7	59.6	105.8	88.2	66.6	111.5	98.8	73.4
	KW	7.75	8.04	8.36	7.97	8.17	8.49	8.17	8.27	8.57
95	TC	94.6	102.4	111.8	101.5	106.2	115.4	106.6	109.3	118.0
	SHC	90.5	74.5	57.6	101.5	86.2	64.5	106.6	96.6	71.3
	KW	8.30	8.62	8.99	8.58	8.76	9.12	8.78	8.89	9.22
100	TC	92.3	99.7	108.9	99.1	103.5	112.3	104.2	106.6	114.9
	SHC	89.4	73.5	56.6	99.1	85.0	63.5	104.2	95.5	70.3
	KW	8.58	8.91	9.30	8.88	9.06	9.44	9.10	9.20	9.54
105	TC	90.0	97.0	105.9	96.8	100.7	109.3	101.8	103.7	111.7
	SHC	88.2	72.6	55.5	96.8	83.9	62.5	101.8	94.3	69.2
	KW	8.87	9.20	9.61	9.19	9.37	9.76	9.42	9.51	9.86
115	TC	85.6	91.6	100.0	92.1	95.1	103.1	96.7	97.9	105.4
	SHC	85.6	70.4	53.5	92.1	81.7	60.3	96.7	91.9	67.3
	KW	9.43	9.75	10.20	9.78	9.95	10.36	10.03	10.09	10.48

38AK012/40RM014 WITH 4-ROW HIGH CAPACITY COIL										
Temp (F) Air Entering Condenser (Edb)	Evaporator Air – Cfm									
	3750			5000			6250			
	Evaporator Air – Ewb (F)									
	62	67	72	62	67	72	62	67	72	
85	TC	104.9	113.9	124.2	112.7	118.4	128.5	118.6	121.2	131.4
	SHC	103.9	90.2	75.1	112.7	102.7	83.2	118.6	113.6	90.3
	KW	7.84	8.16	8.48	8.10	8.31	8.64	8.30	8.41	8.74
95	TC	100.1	108.3	118.0	107.9	112.4	122.1	113.3	115.1	124.7
	SHC	100.1	87.4	72.3	107.9	99.9	80.3	113.3	110.4	87.5
	KW	8.43	8.78	9.14	8.75	8.95	9.31	8.96	9.04	9.41
100	TC	97.9	105.4	115.0	105.5	109.4	118.9	110.6	111.9	121.3
	SHC	97.9	86.1	71.0	105.5	98.4	78.9	110.6	108.6	86.0
	KW	8.75	9.09	9.48	9.07	9.26	9.65	9.29	9.35	9.74
105	TC	95.6	102.6	111.9	103.0	106.3	115.6	108.0	108.7	117.9
	SHC	95.6	84.8	69.6	103.0	96.9	77.4	108.0	106.7	84.6
	KW	9.06	9.40	9.81	9.40	9.57	9.98	9.63	9.67	10.08
115	TC	91.1	96.7	105.6	97.8	100.0	108.8	102.5	102.7	110.9
	SHC	91.1	82.0	66.9	97.8	93.8	74.6	102.5	102.7	81.6
	KW	9.65	9.98	10.45	10.02	10.15	10.61	10.26	10.27	10.71

38AK012/40RM008 WITH 4-ROW HIGH CAPACITY COIL										
Temp (F) Air Entering Condenser (Edb)	Evaporator Air – Cfm									
	2250			3000			3750			
	Evaporator Air – Ewb (F)									
	62	67	72	62	67	72	62	67	72	
85	TC	89.1	97.7	106.7	94.2	103.0	112.2	98.0	106.7	115.9
	SHC	75.2	63.5	51.5	87.1	72.6	57.0	98.0	80.8	62.1
	KW	7.21	7.52	7.82	7.40	7.70	8.01	7.54	7.83	8.13
95	TC	84.9	93.2	101.9	89.9	98.1	107.0	93.7	101.4	110.4
	SHC	73.2	61.6	49.5	85.0	70.6	55.1	93.7	78.8	60.2
	KW	7.73	8.08	8.43	7.94	8.28	8.62	8.10	8.42	8.76
100	TC	82.7	90.9	99.4	87.6	95.7	104.3	91.6	98.8	107.6
	SHC	72.1	60.7	48.6	83.9	69.6	54.1	91.6	77.8	59.3
	KW	7.98	8.35	8.72	8.21	8.56	8.93	8.38	8.70	9.07
105	TC	80.6	88.5	96.9	85.3	93.2	101.7	89.6	96.1	104.7
	SHC	71.1	59.7	47.6	82.6	68.6	53.2	89.6	76.7	58.2
	KW	8.24	8.63	9.02	8.48	8.86	9.24	8.67	8.99	9.37
115	TC	76.3	83.8	91.8	80.6	88.0	96.1	85.4	90.6	98.8
	SHC	69.1	57.7	45.7	80.6	66.6	51.2	85.4	74.7	56.2
	KW	8.75	9.17	9.60	8.99	9.40	9.84	9.26	9.54	9.98

38AK013/40RM008 WITH 4-ROW HIGH CAPACITY COIL										
Temp (F) Air Entering Condenser (Edb)	Evaporator Air – Cfm									
	2250			3000			3750			
	Evaporator Air – Ewb (F)									
	62	67	72	62	67	72	62	67	72	
85	TC	92.5	101.5	111.1	98.2	107.4	117.2	102.3	111.4	121.31
	SHC	76.9	65.3	53.3	89.1	74.4	58.9	99.5	82.7	64.1
	KW	6.81	7.06	7.30	6.97	7.21	7.45	7.08	7.31	7.54
95	TC	88.1	96.9	106.2	93.5	102.4	111.7	97.2	106.1	115.6
	SHC	74.8	63.3	51.3	86.7	72.3	56.9	97.2	80.6	62.1
	KW	7.37	7.66	7.95	7.55	7.83	8.12	7.67	7.95	8.23
100	TC	86.0	94.5	103.6	91.2	99.8	109.0	95.0	103.3	112.7
	SHC	73.8	62.3	50.3	85.7	71.3	55.9	95.0	79.5	61.1
	KW	7.64	7.96	8.26	7.84	8.14	8.44	7.97	8.26	8.57
105	TC	83.7	92.1	101.0	88.8	97.3	106.3	92.8	100.4	109.6
	SHC	72.7	61.2	49.3	84.5	70.3	54.9	92.8	78.5	60.0
	KW	7.90	8.24	8.57	8.11	8.44	8.76	8.26	8.55	8.88
115	TC	79.3	87.2	95.7	83.9	91.8	100.5	88.5	94.7	103.5
	SHC	70.5	59.2	47.2	81.9	68.2	52.9	88.5	76.3	57.9
	KW	8.44	8.82	9.19	8.66	9.03	9.40	8.87	9.15	9.52

38AK012/40RM012 WITH 4-ROW HIGH CAPACITY COIL										
Temp (F) Air Entering Condenser (Edb)	Evaporator Air – Cfm									
	3000			4000			5000			
	Evaporator Air – Ewb (F)									
	62	67	72	62	67	72	62	67	72	
85	TC	99.3	107.5	117.3	105.8	111.8	121.5	111.5	115.0	124.2
	SHC	92.8	76.7	59.6	105.8	88.2	66.6	111.5	98.8	73.4
	KW	7.75	8.04	8.36	7.97	8.17	8.49	8.17	8.27	8.57
95	TC	94.6	102.4	111.8	101.5	106.2	115.4	106.6	109.3	118.0
	SHC	90.5	74.5	57.6	101.5	86.2	64.5	106.6	96.6	71.3
	KW	8.30	8.62	8.99	8.58	8.76	9.12	8.78	8.89	9.22
100	TC	92.3	99.7	108.9	99.1	103.5	112.3	104.2	106.6	114.9
	SHC	89.4	73.5	56.6	99.1	85.0	63.5	104.2	95.5	70.3
	KW	8.58	8.91	9.30	8.88	9.06	9.44	9.10	9.20	9.54
105	TC	90.0	97.0	105.9	96.8	100.7	109.3	101.8	103.7	111.7
	SHC	88.2	72.6	55.5	96.8	83.9	62.5	101.8	94.3	69.2
	KW	8.87	9.20	9.61	9.19	9.37	9.76	9.42	9.51	9.86
115	TC	85.6	91.6	100.0	92.1	95.1	103.1	96.7	97.9	105.4
	SHC	85.6	70.4	53.5	92.1	81.7	60.3	96.7	91.9	67.3
	KW	9.43	9.75	10.20	9.78	9.95	10.36	10.03	10.09	10.48

38AK013/40RM012 WITH 4-ROW HIGH CAPACITY COIL										
Temp (F) Air Entering Condenser (Edb)	Evaporator Air – Cfm									
	3000			4000			5000			
	Evaporator Air – Ewb (F)									
	62	67	72	62	67	72	62	67	72	
85	TC	103.3	112.0	122.1	109.4	116.5	126.6	115.5	119.9	129.6
	SHC	94.8	78.3	61.3	109.4	89.8	68.4	115.5	100.9	75.2
	KW	7.08	7.30	7.54	7.23	7.40	7.64	7.38	7.48	7.70
95	TC	98.3	106.6	116.3	105.0	110.6	120.3	110.5	113.9	123.1
	SHC	92.3	76.1	59.2	105.0	87.8	66.2	110.5	98.5	72.9
	KW	7.68	7.94	8.23	7.89	8.06	8.33	8.05	8.15	8.41
100	TC	95.9	103.8	113.3	102.6	107.8	117.1	108.0	111.0	119.8
	SHC	91.3	75.1	58.1	102.6	86.8	65.1	108.0	97.4	71.9
	KW	7.98	8.25	8.56	8.21	8.38	8.67	8.38	8.48	8.76
105	TC	93.4	101.0	110.3	100.2	104.9	113.9	105.4	108.0	116.5
	SHC	90.0	74.0	57.1	100.2	85.6	64.0	105.4	96.1	70.8
	KW	8.27	8.55	8.88	8.53	8.69	9.00	8.71	8.80	9.09
115	TC	88.6	95.2	104.0	95.3	99.0	107.3	100.2	101.7	109.7
	SHC	87.3	71.8	54.9	95.3	83.2	61.8	100.2	93.8	68.6
	KW	8.86	9.15	9.52	9.16	9.31	9.65	9.37	9.43	9.75

Performance data (cont.)



COMBINATION RATINGS – 4-ROW HIGH-CAPACITY COILS - (cont.)

38AK013/40RM014 WITH 4-ROW HIGH CAPACITY COIL										
Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm								
		3750			5000			6250		
		Evaporator Air – Ewb (F)								
		62	67	72	62	67	72	62	67	72
85	TC	108.9	118.5	129.0	116.5	123.3	133.8	122.7	126.4	136.8
	SHC	106.0	88.0	68.1	116.5	101.9	76.8	122.7	114.5	84.9
	KW	7.23	7.47	7.71	7.42	7.59	7.82	7.57	7.66	7.89
95	TC	103.6	112.6	122.7	111.5	117.0	127.1	117.3	122.5	129.7
	SHC	103.6	85.6	65.8	111.5	99.5	74.6	117.3	114.1	82.5
	KW	7.87	8.14	8.43	8.10	8.28	8.56	8.28	8.69	8.63
100	TC	101.1	109.7	119.5	109.0	113.8	123.6	114.5	116.5	126.2
	SHC	101.1	84.5	64.7	109.0	98.3	73.4	114.5	110.2	81.3
	KW	8.19	8.47	8.78	8.44	8.61	8.91	8.62	8.89	8.98
105	TC	98.7	106.7	116.3	106.5	110.6	120.1	111.7	113.2	122.6
	SHC	98.7	83.4	63.6	106.5	97.0	72.2	111.7	108.7	80.2
	KW	8.50	8.79	9.13	8.78	8.93	9.26	8.96	9.02	9.33
115	TC	94.0	100.5	109.7	101.2	103.9	113.0	106.0	106.6	115.3
	SHC	94.0	81.0	61.3	101.2	94.3	69.8	106.0	105.1	77.9
	KW	9.13	9.42	9.80	9.44	9.56	9.93	9.64	9.67	10.02

38AK016/40RM024 WITH 4-ROW HIGH CAPACITY COIL										
Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm								
		6000			8000			10000		
		Evaporator Air – Ewb (F)								
		62	67	72	62	67	72	62	67	72
85	TC	172.3	187.7	204.0	184.4	194.8	211.4	193.7	199.7	216.3
	SHC	166.3	129.9	89.3	184.4	154.5	104.2	193.7	176.8	118.4
	KW	12.79	13.27	13.75	13.17	13.48	13.97	13.44	13.64	14.12
95	TC	165.3	182.3	195.4	177.6	186.5	202.2	186.6	190.9	206.3
	SHC	165.3	128.6	87.3	177.6	152.3	102.3	186.6	174.1	116.5
	KW	13.89	14.99	14.99	14.35	14.69	15.24	14.68	14.85	15.41
100	TC	161.7	175.5	192.3	174.1	182.2	197.5	183.0	186.4	203.5
	SHC	161.7	126.7	86.8	174.1	151.3	101.3	183.0	172.7	116.3
	KW	14.43	15.00	15.87	14.93	15.27	15.85	15.30	15.43	16.32
105	TC	158.2	171.5	186.5	170.7	177.9	192.9	179.1	181.9	196.9
	SHC	158.2	125.6	85.3	170.7	150.2	100.3	179.1	171.3	114.5
	KW	14.96	15.55	16.19	15.51	15.84	16.46	15.89	16.01	16.62
115	TC	152.4	165.6	177.5	163.6	171.5	183.3	171.3	172.6	186.8
	SHC	152.4	125.0	83.2	163.6	150.3	98.3	171.3	167.6	112.6
	KW	16.13	17.08	17.39	16.70	17.38	17.68	17.08	17.15	17.84

38AK016/40RM014 WITH 4-ROW HIGH CAPACITY COIL										
Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm								
		3750			5000			6250		
		Evaporator Air – Ewb (F)								
		62	67	72	62	67	72	62	67	72
85	TC	149.6	163.5	178.2	158.2	172.3	187.2	163.9	178.1	193.3
	SHC	121.1	95.5	69.3	143.1	111.4	78.5	163.9	126.3	87.4
	KW	11.96	12.41	12.86	12.23	12.67	13.13	12.42	12.86	13.31
95	TC	143.5	156.9	171.0	151.4	165.0	181.8	157.6	170.5	184.8
	SHC	118.7	93.9	67.3	140.1	109.2	77.2	157.6	124.2	85.5
	KW	12.95	13.48	14.01	13.27	13.76	14.82	13.51	14.00	14.52
100	TC	140.3	153.4	168.4	148.2	161.4	175.4	154.3	166.5	18.8
	SHC	117.6	92.2	66.7	139.0	108.1	75.5	154.3	123.1	84.5
	KW	13.43	14.00	14.80	13.78	14.33	14.89	14.04	14.54	15.11
105	TC	137.2	150.0	163.6	144.9	157.7	171.4	151.3	163.7	176.5
	SHC	116.4	91.1	65.2	137.7	107.1	74.6	151.3	122.5	83.5
	KW	13.91	14.52	15.12	14.29	14.87	15.46	14.57	15.30	15.68
115	TC	131.0	143.2	156.0	138.0	150.1	163.3	145.2	154.5	167.7
	SHC	114.1	89.0	63.2	134.7	105.0	72.7	145.2	119.9	81.5
	KW	14.90	15.56	16.23	15.29	15.94	16.61	15.67	16.16	16.82

38AKS024/40RM016 WITH 4-ROW HIGH CAPACITY COIL										
Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm								
		4500			6000			7500		
		Evaporator Air – Ewb (F)								
		62	67	72	62	67	72	62	67	72
85	TC	183.9	201.0	219.3	195.2	212.8	231.0	203.0	220.5	238.8
	SHC	147.1	116.6	85.3	173.8	136.1	96.3	195.6	154.4	106.9
	KW	16.04	16.76	17.54	16.52	17.27	18.03	16.85	17.59	18.35
95	TC	176.1	195.4	209.8	186.3	203.1	220.6	193.7	210.5	228.0
	SHC	144.2	115.1	82.7	169.9	133.2	93.5	193.3	151.7	104.4
	KW	17.29	18.60	18.92	17.78	18.59	19.43	18.14	18.95	19.77
100	TC	171.8	188.0	205.0	181.9	198.3	215.3	189.4	205.2	222.4
	SHC	142.4	112.3	80.9	168.2	131.7	92.2	189.4	150.0	103.1
	KW	17.88	18.74	19.60	18.41	19.25	20.13	18.79	19.62	20.48
105	TC	167.8	183.4	200.2	177.5	193.4	210.0	185.1	200.0	216.9
	SHC	141.1	110.9	79.6	166.3	130.3	90.9	185.1	148.7	101.8
	KW	18.50	19.39	20.30	19.06	19.92	20.83	19.47	20.29	21.21
115	TC	159.4	174.4	190.2	168.5	183.5	199.3	176.5	189.2	205.3
	SHC	137.8	108.1	76.9	162.1	127.6	88.4	176.5	145.6	99.3
	KW	19.76	20.72	21.70	20.35	21.30	22.27	20.86	21.64	22.64

38AK016/40RM016 WITH 4-ROW HIGH CAPACITY COIL										
Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm								
		4500			6000			7500		
		Evaporator Air – Ewb (F)								
		62	67	72	62	67	72	62	67	72
85	TC	159.3	173.7	189.0	168.0	182.7	198.1	175.8	188.0	203.7
	SHC	140.9	117.7	93.4	162.6	135.5	104.5	175.8	151.6	114.6
	KW	12.23	12.68	13.15	12.51	12.96	13.41	12.74	13.11	13.57
95	TC	152.6	166.6	181.1	161.0	174.6	187.6	169.5	179.5	194.7
	SHC	137.6	114.7	90.5	158.0	132.4	100.9	169.5	148.2	111.6
	KW	13.28	13.80	14.34	13.60	14.10	14.64	13.92	14.28	14.81
100	TC	149.3	163.0	177.3	157.3	170.5	186.2	166.2	175.4	190.1
	SHC	135.9	113.3	89.1	157.3	130.8	100.4	166.2	146.6	110.0
	KW	13.79	14.36	14.92	14.12	14.65	15.48	14.49	14.84	15.42
105	TC	146.0	159.4	174.5	154.1	167.6	180.7	163.6	171.1	185.5
	SHC	134.4	111.9	88.1	154.1	130.1	98.5	163.6	145.1	108.5
	KW	14.29	14.90	15.67	14.66	15.43	15.80	15.20	15.40	16.01
115	TC	139.0	154.0	165.2	147.7	158.2	171.8	155.8	162.6	176.2
	SHC	131.1	109.9	84.7	147.7	126.0	95.4	155.8	141.6	105.4
	KW	15.30	16.42	16.65	15.76	16.30	16.96	16.18	16.52	17.19

38AKS024/40RM024 WITH 4-ROW HIGH CAPACITY COIL										
Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm								
		6000			8000			10000		
		Evaporator Air – Ewb (F)								
		62	67	72	62	67	72	62	67	72
85	TC	205.7	224.5	244.3	216.1	235.1	255.4	227.7	241.6	262.2
	SHC	184.9	153.8	121.3	212.2	176.8	135.8	227.7	197.7	149.0
	KW	17.00	17.77	18.58	17.43	18.21	19.04	17.89	18.48	19.32
95	TC	196.8	214.7	237.4	206.9	224.1	243.6	218.8	230.2	249.8
	SHC	180.1	149.7	119.0	206.9	172.6	131.7	218.8	193.3	144.8
	KW	18.19	19.03	20.65	18.66	19.46	20.37	19.22	19.75	20.66
100	TC	193.8	209.7	228.4	202.6	218.5	237.6	214.1	224.7	243.6
	SHC	179.4	147.6	115.5	202.6	170.3	129.6	214.1	191.3	142.7
	KW	19.05	19.64	20.56	19.27	20.07	21.01	19.85	20.37	21.32
105	TC	187.1	204.6	222.9	198.5	213.0	231.7	209.5	218.8	237.5
	SHC	175.7	145.6	113.5	198.5	168.3	127.6	209.5	188.6	140.8
	KW	19.31	20.26	21.22	19.92	20.70	21.67	20.50	21.00	21.99
115	TC	177.9	194.1	211.6	190.0	202.0	219.7	202.9	207.5	225.1
	SHC	171.0	141.5	109.5	190.0	164.0	123.5	202.9	184.2	136.7
	KW	20.49	21.48	22.53	21.23	21.96	23.00	22.45	2	

Performance data (cont.)



COMBINATION RATINGS – 4-ROW HIGH-CAPACITY COILS - (cont.)

38AKS024/40RM028 WITH 4-ROW HIGH CAPACITY COIL										
Temp (F) Air Entering Condenser (Edb)	Evaporator Air – Cfm									
	7500			10000			12500			
	Evaporator Air – Ewb (F)									
	62	67	72	62	67	72	62	67	72	
85 TC	219.1	238.8	259.8	234.2	248.0	269.2	246.5	254.5	275.5	
85 SHC	212.0	176.1	136.4	234.2	204.1	153.7	246.5	229.5	17.0	
85 KW	17.96	18.80	19.69	18.60	19.20	20.09	19.11	19.49	20.37	
95 TC	212.5	227.5	247.7	224.9	236.3	256.6	236.6	241.7	262.2	
95 SHC	211.7	171.8	132.0	224.9	199.4	149.6	236.6	224.0	165.8	
95 KW	19.94	20.08	21.05	19.95	20.52	21.46	20.49	20.76	21.77	
100 TC	205.0	223.4	241.9	220.4	230.6	250.5	231.6	235.8	255.7	
100 SHC	205.0	170.8	130.1	220.4	197.5	147.7	231.6	221.6	163.6	
100 KW	19.82	20.92	21.72	20.61	21.16	22.17	21.19	21.41	22.43	
105 TC	199.7	216.6	235.9	215.6	224.7	244.1	226.3	229.8	249.1	
105 SHC	199.7	167.7	128.0	215.6	195.3	145.5	226.3	219.0	161.6	
105 KW	20.43	21.38	22.41	21.30	21.83	22.87	21.90	22.09	23.14	
115 TC	194.0	205.4	223.7	206.1	212.6	235.2	215.7	217.3	235.4	
115 SHC	194.0	163.3	123.9	206.1	190.4	145.2	215.7	212.8	157.4	
115 KW	22.37	22.62	23.74	22.65	23.07	24.94	23.25	23.34	24.44	

38AKS028/40RM034 WITH 4-ROW HIGH CAPACITY COIL										
Temp (F) Air Entering Condenser (Edb)	Evaporator Air – Cfm									
	9000			12000			15000			
	Evaporator Air – Ewb (F)									
	62	67	72	62	67	72	62	67	72	
85 TC	279.7	305.5	332.1	296.4	318.0	345.0	312.8	326.3	353.3	
85 SHC	259.7	204.9	146.4	296.4	241.8	168.3	312.8	275.6	189.0	
85 KW	22.84	23.92	25.03	23.51	24.46	25.57	24.21	24.82	25.92	
95 TC	267.2	291.2	317.0	284.9	302.8	328.6	299.8	310.6	336.3	
95 SHC	255.4	200.8	142.6	284.9	237.5	164.4	299.8	271.3	185.4	
95 KW	24.40	25.59	26.84	25.26	26.15	27.39	25.98	26.54	27.76	
100 TC	260.4	284.0	309.4	278.9	295.1	320.4	293.4	302.8	327.9	
100 SHC	252.0	198.9	140.9	278.9	235.3	162.6	293.4	268.8	183.6	
100 KW	25.14	26.38	27.70	26.10	26.97	28.27	26.84	27.38	28.66	
105 TC	253.7	276.7	301.3	272.8	287.5	312.1	286.8	294.6	319.3	
105 SHC	248.4	196.7	139.0	272.8	233.2	160.9	286.8	266.0	181.8	
105 KW	25.92	27.22	28.58	26.99	27.83	29.18	27.77	28.24	29.59	
115 TC	241.1	262.0	285.5	260.3	272.1	295.5	273.6	278.4	301.9	
115 SHC	241.1	192.4	135.2	260.3	228.8	157.2	273.6	260.8	177.9	
115 KW	27.44	28.82	30.28	28.68	29.46	30.91	29.54	29.85	31.32	

38AKS028/40RM024 WITH 4-ROW HIGH CAPACITY COIL										
Temp (F) Air Entering Condenser (Edb)	Evaporator Air – Cfm									
	6000			8000			10000			
	Evaporator Air – Ewb (F)									
	62	67	72	62	67	72	62	67	72	
85 TC	257.4	282.2	308.4	274.1	299.2	325.8	284.9	310.4	337.3	
85 SHC	205.5	164.8	123.1	243.4	191.9	138.8	275.4	217.4	153.8	
85 KW	21.83	22.91	24.02	22.58	23.64	24.76	23.05	24.14	25.26	
95 TC	245.9	269.7	295.2	261.5	285.8	311.3	272.0	295.7	321.5	
95 SHC	201.1	160.7	119.4	238.5	188.0	135.0	272.0	213.4	150.2	
95 KW	23.31	24.51	25.75	24.13	25.32	26.55	24.63	25.80	27.05	
100 TC	240.1	263.5	288.4	254.7	278.9	303.9	265.3	288.3	313.7	
100 SHC	198.8	158.6	117.4	235.6	185.9	133.2	265.3	211.4	148.3	
100 KW	24.04	25.28	26.58	24.85	26.12	27.40	25.39	26.60	27.92	
105 TC	234.4	257.2	281.4	248.5	271.8	296.3	260.1	280.8	305.5	
105 SHC	196.7	156.6	115.5	233.7	183.9	131.2	260.1	209.2	146.4	
105 KW	24.80	26.11	27.46	25.62	26.96	28.31	26.27	27.46	28.81	
115 TC	222.7	244.6	267.5	235.9	257.4	280.9	248.8	265.9	289.4	
115 SHC	192.3	152.5	111.5	228.2	179.7	127.5	248.8	204.9	142.6	
115 KW	26.26	27.68	29.15	27.11	28.52	29.99	27.95	29.06	30.52	

38AKS034/40RM028 WITH 4-ROW HIGH CAPACITY COIL										
Temp (F) Air Entering Condenser (Edb)	Evaporator Air – Cfm									
	7500			10000			12500			
	Evaporator Air – Ewb (F)									
	62	67	72	62	67	72	62	67	72	
85 TC	280.1	305.6	332.5	294.8	320.8	347.7	307.1	331.0	357.9	
85 SHC	235.6	187.1	137.0	276.9	217.7	154.8	307.1	246.9	172.1	
85 KW	23.75	24.89	26.04	24.40	25.54	26.70	24.96	25.98	27.15	
95 TC	267.9	292.7	318.7	282.5	306.8	332.7	295.4	316.4	342.2	
95 SHC	230.9	182.8	133.3	271.9	213.6	151.0	295.4	242.9	168.4	
95 KW	25.19	26.45	27.75	25.93	27.17	28.43	26.59	27.65	28.90	
100 TC	261.8	286.0	311.1	276.0	299.7	325.0	289.5	308.7	334.2	
100 SHC	228.6	180.6	131.1	268.8	211.6	149.2	289.5	240.7	166.7	
100 KW	25.88	27.20	28.55	26.67	27.94	29.27	27.39	28.43	29.76	
105 TC	255.7	279.2	303.7	268.8	292.5	317.1	283.4	300.9	325.8	
105 SHC	226.3	178.5	129.1	268.8	209.5	147.4	283.4	238.5	164.8	
105 KW	26.61	27.98	29.38	27.39	28.74	30.13	28.22	29.23	30.63	
115 TC	243.0	265.3	288.7	256.2	277.4	301.1	271.0	285.0	308.7	
115 SHC	221.5	174.2	125.2	256.2	205.3	143.6	271.0	234.0	160.8	
115 KW	27.99	29.48	31.00	28.88	30.27	31.81	29.86	30.76	32.29	

38AKS028/40RM028 WITH 4-ROW HIGH CAPACITY COIL										
Temp (F) Air Entering Condenser (Edb)	Evaporator Air – Cfm									
	7500			10000			12500			
	Evaporator Air – Ewb (F)									
	62	67	72	62	67	72	62	67	72	
85 TC	263.5	287.8	313.2	277.6	301.7	327.2	290.9	310.7	336.6	
85 SHC	229.3	181.2	131.6	269.1	212.1	149.7	290.9	241.2	167.2	
85 KW	22.01	23.07	24.15	22.65	23.67	24.75	23.20	24.06	25.15	
95 TC	251.6	274.7	299.0	264.8	287.7	312.1	279.3	295.6	320.4	
95 SHC	224.7	177.1	127.8	264.8	208.0	146.1	279.3	236.9	163.5	
95 KW	23.52	24.68	25.87	24.18	25.34	26.51	24.90	25.71	26.92	
100 TC	245.7	268.3	292.0	258.5	280.4	304.7	273.5	288.1	312.3	
100 SHC	222.5	175.1	126.0	258.5	206.1	144.4	273.5	234.7	161.7	
100 KW	24.25	25.47	26.71	24.94	26.12	27.39	25.75	26.52	27.77	
105 TC	239.6	261.6	284.7	253.0	273.0	296.6	267.5	280.4	304.1	
105 SHC	220.0	173.1	124.1	253.0	204.1	142.6	267.5	232.5	159.7	
105 KW	25.01	26.27	27.57	25.76	26.93	28.24	26.61	27.34	28.65	
115 TC	227.1	248.2	270.3	241.9	258.4	280.7	255.1	265.3	287.7	
115 SHC	215.1	169.0	120.5	241.9	199.8	138.9	255.1	228.1	156.2	
115 KW	26.45	27.84	29.26	27.41	28.49	29.92	28.27	28.94	30.35	

38AKS034/40RM034 WITH 4-ROW HIGH CAPACITY COIL										
Temp (F) Air Entering Condenser (Edb)	Evaporator Air – Cfm									
	9000			12000			15000			
	Evaporator Air – Ewb (F)									
	62	67	72	62	67	72	62	67	72	
85 TC	297.9	324.3	352.1	312.9	338.8	366.7	330.1	347.7	375.8	
85 SHC	267.9	210.7	151.5	312.9	247.8	173.3	330.1	282.1	194.1	
85 KW	24.55	25.70	26.90	25.21	26.34	27.53	25.95	26.72	27.91	
95 TC	284.9	310.5	337.1	300.9	323.5	350.5	317.7	331.8	358.8	
95 SHC	262.5	206.5	147.7	300.9	243.5	169.7	317.7	277.4	190.2	
95 KW	26.07	27.35	28.66	26.87	27.99	29.32	27.72	28.39	29.73	
100 TC	278.3	303.5	329.5	295.0	315.7	342.2	311.0	323.8	350.3	
100 SHC	260.2	204.5	145.9	295.0	241.3	167.8	311.0	275.1	188.5	
100 KW	26.81	28.15	29.51	27.69	28.80	30.17	28.56	29.21	30.58	
105 TC	271.7	296.2	321.7	289.0	307.8	333.7	304.3	315.7	341.5	
105 SHC	257.6	202.4	143.9	289.0	239.1	165.8	304.3	272.9	186.6	
105 KW	27.57	28.97	30.40	28.55	29.63	31.06	29.42	30.06	31.49	
115 TC	257.9	280.9	305.5	276.5	291.8	316.4	290.6	299.1	323.6	
115 SHC	251.0	198.0	139.9	276.5	234.5	161.9	290.6	267.7	182.7	
115 KW	28.99	30.49	32.08	30.21	31.18	32.75	31.11	31.66	33.21	

Performance data (cont.)



COMBINATION RATINGS – 4-ROW HIGH-CAPACITY COILS - (cont.)

38AKS044/40RM034 WITH 4-ROW HIGH CAPACITY COIL										
Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm								
		9000			12000			15000		
		Evaporator Air – Ewb (F)								
		62	67	72	62	67	72	62	67	72
85	TC	347.6	378.8	411.3	367.0	398.3	431.0	380.2	410.6	443.5
	SHC	287.1	228.1	167.7	338.3	265.2	189.3	380.2	300.0	209.8
	KW	33.03	34.90	36.81	34.20	36.06	38.02	34.97	36.77	38.73
95	TC	334.0	363.8	395.1	351.4	381.6	412.9	365.8	393.1	424.4
	SHC	282.2	223.4	163.4	331.7	260.3	184.7	365.8	295.2	205.3
	KW	34.80	36.76	38.83	35.94	37.95	40.03	36.90	38.70	40.79
100	TC	327.2	356.3	386.8	344.0	373.1	403.6	359.2	384.3	414.8
	SHC	279.4	221.0	161.2	328.7	257.8	182.5	359.2	292.8	203.2
	KW	35.71	37.74	39.87	36.87	38.91	41.05	37.96	39.69	41.83
105	TC	319.9	348.7	378.4	336.6	364.6	394.3	352.0	375.4	405.0
	SHC	276.5	218.5	159.0	325.2	255.4	180.2	352.0	290.3	201.0
	KW	36.56	38.69	40.89	37.78	39.85	42.05	38.93	40.65	42.84
115	TC	305.3	332.4	360.5	320.5	347.2	375.3	337.6	357.2	385.3
	SHC	271.1	213.5	153.9	320.5	250.4	175.6	337.6	285.1	196.5
	KW	38.19	40.43	42.74	39.46	41.63	43.95	40.85	42.46	44.79

LEGEND

—	—	Out of Range
Edb	—	Entering Dry Bulb
Ewb	—	Entering Wet Bulb
Kw	—	Compressor Motor Power input
SHC	—	Sensible Heat Capacity (1000 Btuh) Gross
TC	—	Total Capacity (1000 Btuh) Gross

$$\text{Ldb F} = \text{Edb F} - \frac{\text{SHC Btuh}}{1.10 \times \text{cfm}}$$

Lwb = wet-bulb temperature corresponding to enthalpy air leaving indoor coil (h/wb)

$$\text{Ldb F: hlwb} = \text{hewb} - \frac{\text{TC Btuh}}{4.5 \times \text{cfm}}$$

Where hewb = enthalpy of air entering evaporator coil (Btuh/lb)

- Capacities are based on 25 actual ft (40 equivalent ft) of interconnecting piping sized to the outdoor unit field connections. (Equivalent length is equal to the actual length plus a 50% allowance for fitting losses.) for other equivalent lengths, refer to the Carrier System Design Manual, part 3, for line losses.

NOTE :

- Direct interpolation is permissible Do not extrapolate.
- SHC is based on 80 F db air entering indoor coil.
- Formulas:

Performance data (cont.)



FAN PERFORMANCE DATA – 40RM WITH HIGH-CAPACITY COIL – 0.0-1.2 in wg ESP – 50 Hz,

UNIT 4-ROW COIL	AIRFLOW (Cfm)	EXTERNAL STATIC PRESSURE (in. wg)													
		0.0		0.2		0.4		0.6		0.8		1.0		1.2	
		Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp
40RM 007	1,800	419	0.21	471	0.26	564	0.37	649	0.49	727	0.63	797	0.77	862	0.92
	2,100	471	0.31	519	0.37	602	0.49	679	0.62	751	0.77	819	0.92	882	1.09
	2,400	524	0.44	568	0.51	645	0.64	715	0.79	781	0.94	844	1.11	905	1.28
	2,700	578	0.61	619	0.69	690	0.84	755	0.99	816	1.15	875	1.33	932	1.51
	3,000	633	0.81	671	0.90	738	1.07	799	1.24	856	1.41	910	1.60	963	1.79
40RM 008	2,250	290	0.10	510	0.39	594	0.51	669	0.65	739	0.79	806	0.95	870	1.12
	2,600	349	0.19	561	0.55	640	0.70	709	0.84	773	1.00	834	1.16	893	1.34
	3,000	579	0.70	621	0.79	695	0.96	759	1.12	818	1.30	874	1.47	928	1.66
	3,400	646	0.99	683	1.09	752	1.29	813	1.48	869	1.67	920	1.86	970	2.06
	3,750	705	1.31	739	1.42	804	1.63	862	1.85	915	2.05	964	2.26	1011	2.48
40RM 012	3,000	421	0.35	592	0.73	670	0.90	737	1.06	797	1.23	854	1.41	908	1.59
	3,500	626	0.98	664	1.08	735	1.28	798	1.48	855	1.67	908	1.87	958	2.07
	4,000	706	1.42	738	1.54	803	1.77	862	2.00	917	2.23	967	2.45	1014	2.67
	4,500	786	1.99	815	2.12	873	2.39	929	2.65	980	2.90	1028	3.16	1073	3.41
	5,000	867	2.70	893	2.84	946	3.14	997	3.43	1046	3.72	1092	4.00	1135	4.28
40RM 014	3,750	410	0.43	467	0.55	567	0.83	649	1.12	721	1.41	788	1.72	851	2.05
	4,300	455	0.62	504	0.74	599	1.05	679	1.38	748	1.70	811	2.04	871	2.39
	5,000	514	0.92	556	1.06	641	1.39	718	1.76	786	2.14	847	2.52	903	2.91
	5,700	575	1.32	612	1.47	686	1.82	759	2.23	825	2.66	884	3.09	939	3.52
	6,250	624	1.71	657	1.87	725	2.24	793	2.66	856	3.12	915	3.59	969	4.06
40RM 016	4,500	437	0.61	483	0.72	576	1.01	660	1.35	732	1.69	797	2.03	856	2.38
	5,300	499	0.95	538	1.07	617	1.37	696	1.74	767	2.13	830	2.53	888	2.94
	6,000	555	1.34	590	1.48	659	1.79	730	2.17	798	2.59	860	3.04	918	3.49
	6,800	620	1.91	651	2.06	712	2.39	774	2.78	836	3.22	896	3.71	952	4.21
	7,500	677	2.52	706	2.69	761	3.04	817	3.44	873	3.89	929	4.39	984	4.93
40RM 024	6,000	542	1.29	577	1.42	646	1.72	716	2.09	785	2.51	849	2.95	907	3.40
	7,000	620	1.99	652	2.15	711	2.48	771	2.85	831	3.28	890	3.76	947	4.27
	8,000	700	2.92	728	3.10	781	3.46	833	3.85	885	4.29	938	4.78	990	5.32
	9,000	781	4.10	806	4.30	854	4.71	900	5.13	946	5.58	993	6.08	1039	6.62
	10,000	862	5.56	885	5.79	929	6.24	971	6.70	1012	7.18	1054	7.69	1096	8.24
40RM 028	7,500	476	1.39	510	1.58	579	1.99	644	2.40	701	2.81	752	3.29	804	3.96
	8,750	545	2.14	574	2.35	633	2.81	691	3.29	747	3.77	797	4.25	842	4.76
	10,000	615	3.12	641	3.36	692	3.87	743	4.41	794	4.96	843	5.51	888	6.05
	11,250	685	4.37	709	4.64	754	5.20	800	5.79	845	6.40	891	7.02	935	7.64
	12,500	756	5.92	778	6.22	819	6.83	860	7.47	901	8.14	942	8.83	983	9.52
40RM 034	9,000	539	2.18	569	2.39	626	2.85	683	3.34	739	3.83	791	4.32	837	4.82
	10,500	620	3.37	646	3.62	695	4.13	744	4.68	793	5.25	842	5.83	888	6.41
	12,000	701	4.94	724	5.22	769	5.80	811	6.40	854	7.04	897	7.69	940	8.36
	13,500	783	6.95	804	7.27	844	7.91	883	8.57	920	9.26	958	9.97	996	10.71
	15,000	865	9.45	884	9.81	921	10.52	956	11.24	991	11.98	1025	12.75	1059	13.54

Performance data (cont.)



40RM WITH HIGH-CAPACITY COIL FAN PERFORMANCE DATA – 1.4 - 2.4 in.wg ESP (cont.)

UNIT 4-ROW COIL	AIRFLOW (Cfm)	EXTERNAL STATIC PRESSURE (in. wg)											
		1.4		1.6		1.8		2.0		2.2		2.4	
		Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp
007	1,800	921	1.07	975	1.23	1026	1.39	1074	1.55	1120	1.72	1164	1.90
	2,100	942	1.26	997	1.43	1048	1.61	1097	1.79	1143	1.97	1186	2.16
	2,400	963	1.47	1017	1.66	1069	1.85	1118	2.05	1164	2.25	—	—
	2,700	987	1.71	1039	1.91	1090	2.12	1138	2.33	1185	2.55	—	—
	3,000	1015	1.99	1065	2.20	1113	2.42	1161	2.65	—	—	—	—
008	2,250	930	1.29	986	1.47	1039	1.65	1089	1.84	1136	2.03	1181	2.22
	2,600	950	1.53	1005	1.72	1057	1.92	1107	2.13	1154	2.33	—	—
	3,000	980	1.86	1031	2.06	1081	2.27	1129	2.49	1175	2.72	—	—
	3,400	1018	2.26	1065	2.48	1111	2.70	1156	2.93	—	—	—	—
	3,750	1057	2.69	1101	2.92	1144	3.15	1186	3.39	—	—	—	—
012	3,000	961	1.78	1012	1.98	1062	2.19	1111	2.41	1158	2.64	—	—
	3,500	1005	2.27	1052	2.49	1098	2.71	1142	2.94	1186	3.18	—	—
	4,000	1058	2.90	1101	3.13	1143	3.36	1184	3.60	—	—	—	—
	4,500	1116	3.66	1157	3.91	1196	4.16	—	—	—	—	—	—
	5,000	1176	4.56	—	—	—	—	—	—	—	—	—	—
014	3,750	912	2.39	971	2.76	1028	3.14	1083	3.54	1135	3.95	1185	4.36
	4,300	928	2.75	982	3.13	1036	3.53	1087	3.94	1138	4.37	1187	4.81
	5,000	956	3.30	107	3.71	1056	4.13	1104	4.56	1151	5.00	1196	5.46
	5,700	990	3.96	1039	4.40	1086	4.85	1130	5.31	1174	5.78	—	—
	6,250	1019	4.54	1067	5.02	1112	5.50	1156	5.99	1198	6.49	—	—
016	4,500	912	2.75	967	3.12	1019	3.52	1070	3.92	1120	4.35	1168	4.79
	5,300	942	3.34	992	3.76	1041	4.18	1088	4.61	1134	5.06	1179	5.52
	6,000	971	3.95	1020	4.40	1067	4.86	1112	5.33	1156	5.81	1198	6.29
	6,800	1005	4.72	1054	5.23	1101	5.75	1145	6.27	1187	6.79	—	—
	7,500	1036	5.48	1084	6.04	1131	6.61	1174	7.17	—	—	—	—
024	6,000	961	3.86	1011	4.31	1058	4.77	1104	5.24	1147	5.71	—	—
	7,000	1000	4.79	1050	5.32	1097	5.85	1142	6.38	1184	6.91	—	—
	8,000	1041	5.88	1090	6.47	1137	7.07	1181	7.67	—	—	—	—
	9,000	1086	7.21	1133	7.82	1178	8.47	—	—	—	—	—	—
	10,000	1138	8.83	1180	9.46	—	—	—	—	—	—	—	—
028	7,500	874	5.33	897	5.91	940	6.80	990	7.50	—	—	—	—
	8,750	886	5.36	930	6.13	982	7.32	1020	8.10	—	—	—	—
	10,000	930	6.60	969	7.20	1007	7.89	1045	8.71	—	—	—	—
	11,250	976	8.25	1014	8.86	1051	9.49	1086	10.17	—	—	—	—
	12,500	1023	10.20	1061	10.88	1097	11.56	—	—	—	—	—	—
034	9,000	881	5.37	923	6.03	967	6.89	1020	8.25	—	—	—	—
	10,500	930	6.97	970	7.55	1008	8.17	1045	8.86	—	—	—	—
	12,000	981	9.02	1021	9.67	1058	10.32	1094	10.97	—	—	—	—
	13,500	1035	11.45	1072	12.20	—	—	—	—	—	—	—	—
	15,000	1093	14.35	—	—	—	—	—	—	—	—	—	—

LEGEND

Bhp – Brake Horsepower input to fan

ESP – External Static Pressure

Bold indicates field-supplied drive is required.

Plain type indicates standard motor and standard drive.

Underline indicates a different motor and drive combination other than the standard motor and standard drive combination is required. Refer to fan motor and drive tables, pages 57-59, to complete selection.

NOTES:

1. Maximum allowable fan speed is 1100 rpm for unit sizes 028 and 034; 1200 rpm for all other sizes.
2. Fan performance is based on deductions for wet coil, clean 2-in filters, and unit casing. See table at right for factory-supplied filter pressure drop.
3. For 50 HZ units, the medium-static drive and standard motor combination is not available for 016-028 sizes. Use alternate motor if medium-static drive is required for these sizes.