Features/Benefits

These dependable split systems match SSI indoor air handlers and direct expansion coils with outdoor condensing units for a wide selection of commercial cooling solutions.

Constructed for long life
38AK (Scroll Compressor units) and 38AKS (semi-hermetic compressor units) are designed and built to last. The copper tube-aluminum fin outdoor coil construction provides years of trouble-free operation. Where conditions require them, copper fin coils are also available. Cabinets are constructed of painted galvanized steel, delivering unparalleled protection from the environment. Inside and outside surfaces are protected to ensure long life, good looks, and reliable operation. Safety controls are used for enhanced system protection and reliability.

Efficient operation
Building owners will appreciate the high unit EERs (Energy Efficiency Ratios) offered by the 38AK, 38AKS units. These units provide greater efficiency than similar units in the market place, which translates into year-round operating savings.

The 38AK & 38AKS condensing units offer the building owner operating controls and components designed for performance dependability. The highly efficient hermetic and semi hermetic compressors are reengineered for long life and durability. The compressors include overload protection and vibration isolation for enhancement of quiet operation. The high pressure switch protects the entire refrigeration system from abnormally high operating pressures. A low-pressure switch protects the system from low-pressure conditions, including loss of charge.

The 38AK008 to 38AKS044 units include a crankcase heater to eliminate liquid slugging at start-up. Units with semi-hermetic compressors are also equipped with an oil-level sight glass.
Latest safety standard for 38AKS units are assured through UL (Underwriters Laboratories) and CSA (Canadian standards Association) approvals.

Innovative SSI 40RM packaged air handlers are custom matched to 38AK, 38AKS condensing units
The 40RM Series has excellent fan performance, efficient direct expansion (DX) coils, a unique combination of indoor – air quality features, and easy installation. Its versatility and state-of-the-art-features help to ensure that your split system provides economical performance now and in the future.

Indoor-air quality (IAQ) features- The unique combination of IAQ features in the 40RM Series air handlers help to ensure that only clean, fresh, conditioned air is delivered to the occupied space.
Direct-expansion (DX) cooling coils prevent the build-up of humidity in the room, even during part-load conditions.
Standard filters remove dust and airborne particles from the occupied space for cleaner air.
The drain pan can be adjusted for a right–or left-hand connection to suit many applications and provide positive drainage and to prevent standing condensate.

Economy - the 40RM Series packaged air handlers have low initial costs, and they continue to save money by providing reduced installation expense and energy-efficient performance.
Quick installation is ensured by the multipoise design. Units can be installed in either the horizontal or vertical configuration without modifications. Fan motors and contactors are prewired and thermostatic expansion valves (TXVs) are factory-installed on all 40RM models.
High efficiency, precision-balanced fans minimize air turbulence, surging, and unbalanced operation, cutting operation expenses.
The economizer accessory precisely controls the blend of outdoor air and room air achieves comfort levels.
When the outside air enthalpy is suitable, outside air dampers can fully open to provide “free” cooling without energizing mechanical cooling.

Rugged dependability – The 40RM series are made to last. The die-formed galvanized steel panels ensure structural integrity under all operation conditions. Galvanized steel fan housing is securely mounted to a die-formed galvanized steel fan deck.
Rugged pillow-block bearings (40RM014-034) are securely fastened to the solid steel fan shaft with split collets and clamp locking devices. Smaller unit sizes have spider-type bearings.

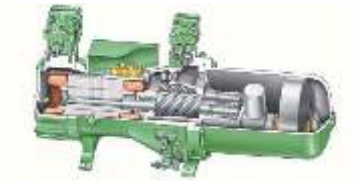
Coil flexibility – Model 40RM direct-expansion coils have galvanized steel casings: inlet and outlet connections are on the same end. The coils are designed for use with Refrigerant R22 (Also optionally R407C & R134a) and have 3/8-in diameter copper tubes mechanically bonded to aluminum fins. The coils include matched, factory-installed thermostatic expansion valves (TXVs) with matching distributor nozzles.

Easier installation and service – The multipoise design and component layout help you to get the installed and running quickly. Units can be converted from horizontal to vertical operation by simply repositioning the unit. Drain pan connections are duplicated on both sides of the unit. The filters, motor, drive, TXVs, and coil connections are all easily accessed by removing a single side panel.

38XD Series
38XD split systems are the premium solution for industrial and commercial applications where installers, consultants and building owners require optimal performances and maximum quality.
The 38XD split systems are designed to meet current and future requirements in terms of energy efficiency and operating sound levels. They use the best technologies available today:
- Twin-rotor screw compressors with a variable capacity valve.
- Low-noise generation fans.
- PLC based control system.

Very economical operation
■ Extremely high full load and part load energy efficiency:
- New twin-rotor screw compressor equipped with a high efficiency motor and a variable capacity valve that permits exact matching of the cooling capacity to the load.
- Efficient air cooled condenser.
- Thermostatic expansion device permitting operation at a lower condensing pressure and improved utilization of the evaporator heat exchange surface (superheat control).

Low operating sound levels
■ Compressors
- Oil separator integrated in the compressor casing.
- Suction piping with flexible connections to prevent noise and vibration transmission.
■ Condenser section
- Condenser coils in V-shape with an open angle, allowing quieter air flow across the coil.
- Low-noise axial fans.
- Rigid fan mounting preventing start-up noise.



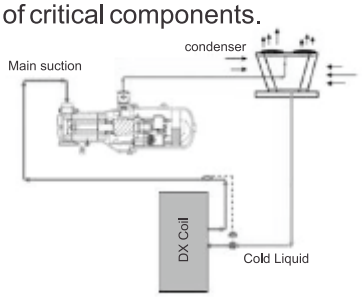
Easy and fast installation

■ Ready to be connected to direct expansion (DX) coil.
- Factory wired and ready to be connected to power.
■ Simplified electrical connections.
■ Fast commissioning

Environmental care
- R407C & R134a ozone friendly refrigerants.
- Leak-tight refrigerant circuit.
- Discharge shut-off valve and liquid line service valve for simplified maintenance.

PLC based control
PLC control combines intelligence with operating simplicity. The control constantly monitors all machine parameters and precisely manages the operation of compressors, to improve efficiency.
■ Energy management
- Internal time schedule clock: controls split system on/off times and operation at a second set-point
■ Ease-of-use
- User interface with large screen for intuitive access to the operating parameters. The information is in clear text.

Absolute reliability
■ Screw compressors
- Industrial-type screw compressors with oversized bearings and motor cooled by suction gas.
- All compressor components are easily accessible on site minimizing down-time.
- Protection increased by an electronic board.
■ Air condenser
Copper tube aluminum fin, mechanically expanded to eliminate bond resistance.
Auto-adaptive control
- Control algorithm prevents excessive compressor cycling.
■ Exceptional endurance tests
- Partnerships with specialized laboratories and use of limit simulation tools (finite element calculation) for the design of critical components.



Benefits of screw compressor
Compact Screws are of two shaft rotary displacement design with newly-Developed profile geometry. The main parts of these compressors are the two rotors which are fitted into a closed housing. The rotors are precisely located at both ends in rolling contact bearings (radial and axial) which, in conjunction with the generously sized oil supply chambers, provides optimum emergency running characteristics.
Owing to the specific design this type of compressor does not require any working valves. To protect against reverse running when the compressor is switched off (expansion operation) a check valve is incorporated in the discharge chamber (this valve does not however replace any check valves)
Fully equipped
Capacity control / start unloading
Discharge shut-off valve
Suction flange with brazing / welding
Bushing
Check valve in discharge gas outlet
Oil sight glass
Insertion type oil heater with sleeve
Oil service valve
Suction gas filter with large surface area and fine mesh
Internal pressure relief valve, an internal pressure relief valve is fitted as burst protection.

Model number nomenclature

38AK & 38AKS

38AK S Z 008 - AL

38AK - Air Cooled Condensing Unit.

S: Reciprocating Compressor
-: Scroll Compressor

-: R-22
Z: R-134a or R-407C

Nominal Tons:

008 - 6.8	016 - 12.8
009 - 8.4	024 - 18
012 - 8.3	028 - 23.4
013 - 8.3	034 - 26.7
	044 - 35.8

Condenser Coil Fin Material
AL - Aluminum (Standard)
Cu - Copper (Optional)
V - Pre Coated Aluminum Fins

Not Used.

38XD

38XD Z 040 AL B

38XD - Screw Comp. Air - Cooled Condensing Unit

-: R-22
Z: R-134a or R-407C

Nominal Capacity

B: Bitzer
H: Hanbell

Condenser Coil Fin Material
AL - Aluminum (Standard)
Cu - Copper (Optional)
V - Pre Coated Aluminum Fins

40RM

40RM S Z 008 - AL

40RM - Packaged Air Handler.

S: Chilled Water Cooling Coil
-: DX Cooling Coil

-: R-22
Z: R-134a or R-407C

Nominal Tons:

007 - 6	016 - 15
008 - 7-1/2	024 - 20
012 - 10	028 - 25
014 -12-1/2	034 - 30

Condenser Coil Fin Material
AL - Aluminum (Standard)
Cu - Copper (Optional)
V - Pre Coated Aluminum Fins

Not Used.

Quick Reference

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	16,200		
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		
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
	40RM028	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.

Dimension

Model	Dimensions (mm)			Wt (Kg.)	
	L	W	H	Al	Cu
38AK008	1185	1003	1053	231	262
38AK009	1185	1003	1053	256	287
38AK012	1185	1003	1053	256	287
38AK013	1937	1118	1013	332	374
38AK016	1937	1118	1013	358	421
38AKS024	1937	1118	1013	409	472
38AKS028	3247	1742	1413	748	818
38AKS034	3247	1742	1413	718	911
38AKS044	4424	1742	1413	1106	1246

Model	Dimensions (mm)			Wt (Kg.)	
	L	W	H	3 Row	4 Row
40RM007	1244	714	1424	173	181
40RM008	1244	714	1424	175	184
40RM012	1244	714	1424	184	193
40RM014	2261	716	1424	304	315
40RM016	2261	716	1424	311	323
40RM024	2261	716	1424	313	331
40RM028	2515	829	1665	463	470
40RM034	2515	829	1665	467	482

UNIT	38AK 008	38AK 009	38AK 012
NOMINAL CAPACITY (tons)*	7.5	8.5	10
OPERATION WEIGHT (lb)			
Aluminum Coils (standard)	510	564	564
Copper Coils (Optional)	578	632	632
RIGGING WEIGHT (lb)			
Aluminum Fin Coils (standard)	560	614	614
Copper Fin Coils (Optional)	628	682	682
REFRIGERANT†	R-22		
Operating charge ,Typical (lb)**	14.3	16.4	16.4
Shipping charge (lb)	2.0	2.0	2.0
COMPRESSOR	Scroll		
Qty… Model	1…ZR94	1…ZR125	2…ZR61 (see Note)
Speed (rpm)	2900	2900	2900
Oil charge (oz) (ea)	85	110	2*66
CONDENSER FAN	Propeller ;Direct Drive		
Qty…Rpm	1…960		
Diameter (in.)	26		
Motor Hp (NEMA)	1/3		
Nominal Airflow (Cfm)	5400	5400	5400
CONDFENSER COIL	Copper Tubes ,Aluminum Fins		
Rows…Fins/in.	2…17		
Face Area (sq ft)	18.0	18.0	18.0
Storage Capacity (lb)	16.56	16.56	16.56
CONTROLS			
Pressure stat Settings (psig)			
High Cut-out	426 ± 7		
Cut-in	320 ± 20		
Low Cut-out	7 ± 3		
Cut-in	22 ± 5		
PIPING CONNECTIONS (Sweat)			
Suction (in.)	1⅛	1⅛	1⅛
Liquid (in.)	½	⅝	½

LEGEND
NEMA — National Electrical Manufactures Association

* Based on operation at 45 F saturated suction temperature and 95 F outdoor ambient.
† Unit is factory supplied with holding charge only.
** Typical operating charge with 25 ft of interconnecting piping.
NOTE :unit 38AK012 has 2 independent compressor system with the same amount of refrigerant in each.

UNIT	38AK 013	38AK 016	38AKS 024
NOMINAL CAPACITY (tons)*	10	15	20
OPERATION WEIGHT (lb)			
Aluminum Coils (standard)	732	789	900
Copper Coils (Optional)	825	929	1040
REFRIGERANT†	R-22		
Operating charge ,Typical (lb)**	22	23	28
Shipping charge (lb)	2.1	3.1	5
COMPRESSOR	Scroll		Reciprocating
Qty… Model	2...ZR61	2...ZR94	1...06E4250
Speed (rpm)	2900	2900	1450
CONDENSER FAN	Propeller ;Direct Drive		
Qty…Rpm	2...900		
Diameter (in.)	26		
Motor Hp (NEMA)	1/2		
Nominal Airflow (Cfm)	9210		
Watts (total)	1490	1750	1520
CONDFENSER COIL	Copper Tubes ,Aluminum Fins		
Rows…Fins/in.	2...19	3...17	
Face Area (sq ft)	39.2	39.2	58.4
Storage Capacity (lb)	37.3	56.6	84.4
CONTROLS			
Pressure stat Settings (psig)			
High Cut-out	426 ± 10		
Cut-in	320 ± 20		
Low Cut-out	27 ± 4		
Cut-in	60 ± 7		
FAN CYCLING CONTROLS			
Operating Presure (psig)			
No. 2 Fan, Close (psig)	255 ± 10		
Open (psig)	160 ± 10		
PIPING CONNECTIONS (Sweat)			
Suction (in.)	1⅜	1⅜	1⅝
Liquid (in.)	⅝		
Hot Gas Stub	⅜		

LEGEND
NEMA — National Electrical Manufactures Association

* Based on operation at 45 F saturated suction temperature and 95 F outdoor ambient.
† Unit is factory supplied with holding charge only.
** Typical operating charge with 25 ft of interconnecting piping.
NOTE :unit 38AK013, 016 has 2 independent compressor system with the same amount of refrigerant in each.

Physical Data (Cont.)

UNIT	38AKS 028	38AKS 034	38AKS 044
NOMINAL CAPACITY (tons)*	23.4	26.7	35.8
OPERATION WEIGHT (lb)			
Aluminum Coils (standard)	1650	1803	2437
Copper Coils (Optional)	1804	2009	2745
REFRIGERANT†		R-22	
Operating charge ,Typical (lb)**	30.5	43.5	65
COMPRESSOR		Reciprocating, Semi - Hermetic	
Model	06E9265	06E9275	06E9299
No. Cylinders (ea)	6	6	6
Speed (rpm)	1450	1450	1450
Oil (pt)	20.0	20.0	19.0
Capacity Steps		100%, 66%, 33%	
Unloader setting (psig)			
No. 1 load		76	
Unload		58	
No. 2 Load		78	
Unload		60	
Crankcase Heater Watts		180	
CONDENSER FAN		Propeller ; Type - Direct Drive	
Qty…Rpm		2...950	3...950
Diameter (in.)		28	
Nominal hp		1.0	
Nominal Airflow (Cfm)		15,700	23,700
Watts (total)	1490	1750	1520
CONDFENSER COIL		Copper Tubes ,Aluminum Fins	
Rows…Fins/in.	2...19	3...17	3...17
Face Area (sq ft)	39.2	39.2	58.4
Storage Capacity (lb)-80% Full at 125 F	37.7	56.6	84.4
CONTROLS			
High-pressure Switch (psig)			
Cutout		426 ± 7	
Cut-in		320 ± 20	
High-pressure Switch (psig)			
Cutout		27 ± 3	
Cut-in		44± 5	
High-pressure Switch (psig)			
Close on rise		9.0	
Open on Fall		6.2	
FAN CYCLING CONTROLS			
Operating Presure (psig)			
No. 2 Fan, Close (psig)		255 ± 10	
Open (psig)		160 ± 10	
PIPING CONNECTIONS (Sweat)			
Suction (in.)	1⅝	2⅛	2⅛
Liquid (in.)		⅞	
Hot Gas Stub		⅝	

* Based on operation at 45 F saturated temperature and 95 F outdoor ambient temperatures.

Physical Data (Cont.)

NOMINAL CAPACITY (tons)*

UNIT	40RM 007	40RM 008	40RM 012	40RM 014	40RM 016	40RM 024	40RM 028	40RM 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	381/399	385/404	405/425	670/695	685/713	690/730	1020/1050	1030/106
Plenum	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	12
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	Copper Tubes, Aluminum Fins							
Max Working Pressure (psig)	435							
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)	12/12	15/15	9/9	9/12	12/16	13/18	15/20	18/24
Fins/in.	15	15	17	15	15	17	15	15
STEAM COIL								
Max Working pressure	175							
(psig at 400F)								
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
Water Volume								
(gal)	8.3			13.9			14.3	
(ft^3)	1.1			1.85			1.90	
PIPING CONNECTIONS,								
Quantity ... size (in).								
DX Coil - Suction (ODF)	1…1 ⅛	1…1 ⅛	2…1 ⅛	2…1 ⅛	2…1 ⅛	2…1 ⅛	2…1 ⅜	2…1 ⅜
DX Coil - Liquid Refrigerant (ODF)	1… ⅝		2… ⅝					
Steam Coil, in (MPT)	1…2 ½		1…2 ½					
Steam Coil, Out (MPT)	1…1 ½		1…2 ½					
Hot Water Coil, in (MPT)	1…1 ½		1…1 ½	1...2				
Hot Water Coil, Out (MPT)	1…1 ½		1…1 ½	1...2				
Condensate	1…1¼							
FILTERS	Throwaway–Factory supplied							
Quantity… Size (in).	4…16x24x2			4…16x20x2 4…16x24x2			4…20x24x2 4…20x25x2	
Access Location	Right or Left side							

LEGEND

TXV — Thermostatic Expansion Valve

*Units are shipped without refrigerant charge.

Physical Data (Cont.)

UNIT	40RMS008	40RMS012	40RMS014	40RMS016	40RMS024	40RMS028	40RMS034
OPERATING WEIGHT (lb)							
Base Unit	390	391	661	677	683	1035	1042
Mixing Box	185	185	340	340	340	450	450
Hot Water Coil	195	195	285	285	285	345	345
Steam Coil	215	215	340	340	340	405	405
FANS							
Qty ...Dia. (in)	1…15	1…15	2…15	2…15	2…15	2…18	2…18
Nominal Airflow (cfm)	3000	4000	5000	6000	8000	10,000	12,000
Airflow Range (cfm)	2250-3750	3000-5000	3750-6250	4500-7500	6000-10000	7500-12500	9000-15000
CHILLED WATER COIL	Copper Tubes ,Aluminum Fins						
Max Working Pressure (psig)	435						
Face Area (sq ft) - Upper	8.3	9.8	8.3	8.3	11	12.4	15.5
Face Area (sq ft) - Upper	-	-	5.5	8.3	8.3	12.4	12.4
Row…Fins/in.							
Water Volume				4…14			
(gal)	3	3.5	4.7	5.6	6.4	8.9	9.9
(ft^3)	0.4	0.46	0.63	0.75	0.85	1.19	1.32
HOT WATER COIL							
Max Working pressure (in Wg)	150						
Total Face Area (sq ft)	6.67	6.67	13.33	13.33	13.33	15.0	15.0
Rows .. Fins/in.	2…8	2…8	2…8	2…8	2…8	2…14	2…14
Water Volume							
(gal)	8.3		13.9			14.3	
(ft^3)	1.1		1.85			1.90	
PIPING CONNECTION							
Quantity ... size (in.)							
Chilled Water - In	1…1 ⅜	2…1 ⅜	2…1 ⅜	2…1 ⅜	2…1 ⅜	2…2 ⅛	2…2 ⅛
Chilled Water - Out	1…1 ⅜	2…1 ⅜	2…1 ⅜	2…1 ⅜	2…1 ⅜	2…2 ⅛	2…2 ⅛
Hot Water Coil, in (MPT)	1…1 ½		1…2				
Hot Water Coil, Out (MPT)	1…1 ½		1...2				
Condensate							
FILTERS	1…1¼						
Quantity ...Size (in.)	4…16 24 2		4…16 20 2 4…16 24 2			4…20 24 2 4…20 25 2	

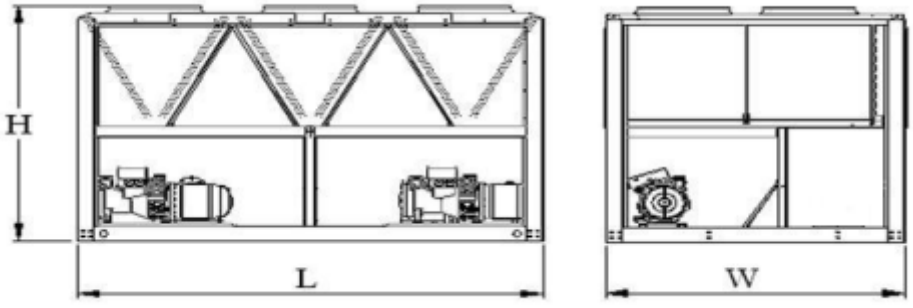
Model	Dimensions (mm)					
	A	B	C	D	E	F
40RMS008	1244	714	1424	1311	1818	699
40RMS012	1244	714	1424	1311	1818	699
40RMS014	2261	716	1424	1311	1818	692
40RMS016	2261	716	1424	1311	1818	692
40RMS024	2261	716	1424	1311	1818	692
40RMS028	2515	829	1665	1578	2059	813
40RMS034	2515	829	1665	1578	2059	813

Physical Data (Cont.)

UNIT 38 XD		040	050	060	070	080	090	100	110	120
Operating weight (Kg)										
Al-Cu coils		1100	1300	1300	1850	1850	2000	2500	2500	2550
Cu-Cu coils		1250	1450	1450	2100	2100	2200	2750	2750	2800
Compressors										
Type		Semi Hermetic Compact Screw								
Quantity		1	1	1	1	2	2	2	2	2
Model @ Ckt 1	Bitzer	6553-50	6563-60	7553-70	7563-80	6553-50	6553-50	6563-60	6563-60	7553-70
Model @ Ckt 2	(CSH Series)	NA	NA	NA	NA	6553-50	6563-60	6563-60	7553-70	7553-70
Model @ Ckt 1	Hanbell	140B	170B	200B	230B	140B	140B	170B	170B	200B
Model @ Ckt 2	(Rc2 Series)	NA	NA	NA	NA	140B	170B	170B	200B	200B
Minimum capacity		50%	50%	50%	50%	25%	23%	25%	23%	25%
No .of Ckt.		1	1	1	1	2	2	2	2	2
Condenser										
Fan	Type	Axial - Vertical Discharge								
	Diameter (mm)	800	800	800	800	800	800	800	800	800
	Quantity	4	4	4	6	6	8	8	8	8
	Total Airflow (cfm)	48800	48800	48800	73200	73200	97600	97600	97600	97600
Coils	Type	Finned Tube								
	Rows...Fin/in	4...12	4...12	4...12	4...12	4...12	4...12	4...12	4...12	4...12
	No .of Coil Per Ckt.	4	4	4	6	3/3	4/4	4/4	4/4	4/4
	Total face area (sq.ft)	93.8	93.8	93.8	140.7	140.7	187.6	187.6	187.6	187.6

UNIT 38 XD		140	160	180	200	220	240	260	280
Operating weight (Kg)									
Al-Cu coils		2700	3100	3350	3600	4100	4550	4900	5300
Cu-Cu coils		3000	3400	3700	4000	4550	5100	5450	5950
Compressors									
Type		Semi Hermetic Compact Screw							
Quantity		2	2	2	2	2	2	2	2
Model @ Ckt 1	Bitzer	7563-80	7573-90	7573-90	8553-110	8553-110	8563-125	8563-125	8573-140
Model @ Ckt 2	(CSH Series)	7563-80	7573-90	8553-110	8553-110	8563-125	8563-125	8573-140	8573-140
Model @ Ckt 1	Hanbell	230B	260B	260B	310B	310B	370B	370B	410B
Model @ Ckt 2	(Rc2 Series)	230B	260B	310B	310B	370B	370B	410B	410B
Minimum capacity		25%	25%	23%	25%	23%	25%	24%	25%
No .of Ckt.		2	2	2	2	2	2	2	2
Condenser									
Fan	Type	Axial - Vertical Discharge							
	Diameter (mm)	800	800	800	800	800	800	800	800
	Quantity	8	12	12	12	14	16	16	16
	Total Airflow (cfm)	97600	146400	146400	146400	170800	195200	195200	195200
Coils	Type	Finned Tube							
	Rows...Fin/in	4...12	4...12	4...12	4...12	4...12	4...12	4...12	4...12
	No .of Coil Per Ckt.	4/4	6/6	6/6	6/6	8/6	8/8	8/8	8/8
	Total face area (sq.ft)	187.6	281.3	281.3	281.3	328.2	375.1	375.1	375.1

UNIT38 XD	040	050	060	070	080	090	100	110	120	140	160	180	200	220	240	260	280
L (mm)	2400	2400	2400	3600	3600	4800	4800	4800	4800	4800	7200	7200	7200	8400	9600	9600	9600
W (mm)	2254	2254	2254	2254	2254	2254	2254	2254	2254	2254	2254	2254	2254	2254	2254	2254	2254
H (mm)	2299	2299	2299	2299	2299	2299	2299	2299	2299	2299	2299	2299	2299	2299	2299	2299	2299



38AK008

SST (F)		Air Temperature Entering Condenser (F)							
		80	85	95	100	105	115	120	125
25	TC	57.8	55.6	51.2	49.1	46.9	42.5	40.3	38.1
	kW	4.72	4.88	5.18	5.32	5.44	5.64	5.74	5.84
	SDT	101	105	114	119	124	133	138	143
30	TC	65.9	63.5	58.9	56.5	54.2	49.4	47.1	44.7
	kW	4.89	5.08	5.43	5.58	5.73	5.98	6.10	6.23
	SDT	103	107	117	121	126	135	140	144
35	TC	74.0	71.5	66.5	63.9	61.4	56.4	53.8	51.3
	kW	5.06	5.27	5.67	5.85	6.02	6.32	6.47	6.62
	SDT	105	109	119	123	128	137	142	146
40	TC	82.1	79.4	74.1	71.4	68.7	63.3	60.6	57.9
	kW	5.23	5.47	5.91	6.11	6.31	6.65	6.83	7.00
	SDT	107	112	121	125	130	139	144	148
45	TC	90.2	87.4	81.7	78.8	76.0	70.3	67.4	64.5
	kW	5.40	5.66	6.15	6.38	6.59	6.99	7.19	7.39
	SDT	109	114	123	127	132	141	145	150
50	TC	98.7	95.8	89.7	86.7	83.6	77.5	74.5	71.4
	kW	5.57	5.85	6.39	6.64	6.88	7.33	7.55	7.77
	SDT	112	116	125	129	134	143	147	152

38AK009

SST (F)		Air Temperature Entering Condenser (F)							
		80	85	95	100	105	115	120	125
25	TC	72.3	69.5	63.7	61.0	58.2	52.4	49.6	46.7
	kW	6.22	6.41	6.76	6.92	7.07	7.30	7.41	7.53
	SDT	105	109	118	123	127	136	141	145
30	TC	82.2	79.1	73.0	70.0	66.9	60.8	57.7	54.6
	kW	6.54	6.76	7.16	7.35	7.52	7.80	7.94	8.09
	SDT	108	112	121	125	130	139	143	147
35	TC	92.1	88.8	82.2	79.0	75.7	69.1	65.8	62.6
	kW	6.87	7.11	7.56	7.77	7.96	8.30	8.48	8.65
	SDT	110	115	123	128	132	141	145	150
40	TC	102	98.5	9.15	88.0	84.5	77.5	74.0	70.5
	kW	7.19	7.46	7.96	8.19	8.41	8.81	9.01	9.20
	SDT	113	117	126	130	135	143	148	152
45	TC	112	108	101	97.0	93.2	85.8	82.1	78.4
	kW	7.51	7.81	8.36	8.62	8.86	9.31	9.54	9.76
	SDT	116	120	129	133	137	146	150	154
50	TC	122	118	110	106	102	94.6	90.7	—
	kW	7.85	8.16	8.76	9.05	9.32	9.82	10.1	—
	SDT	119	123	132	136	140	149	153	—

38AK012

SST (F)		Air Temperature Entering Condenser (F)						
		80	85	95	100	105	115	125
25	TC	71.0	68.2	62.8	60.0	57.1	51.5	45.9
	kW	6.20	6.40	6.76	6.91	7.06	7.30	7.47
	SDT	104	109	118	122	127	136	145
30	TC	80.8	77.8	71.9	68.8	65.8	59.8	53.8
	kW	6.51	6.74	7.15	7.33	7.50	7.79	8.02
	SDT	107	111	120	125	129	138	147
35	TC	90.6	87.4	81.0	77.7	74.5	68.0	61.7
	kW	6.83	7.08	7.54	7.75	7.94	8.29	8.58
	SDT	110	114	123	127	132	141	149
40	TC	100	97.0	90.1	86.6	83.1	76.3	69.5
	kW	7.15	7.42	7.93	8.16	8.38	8.79	9.13
	SDT	113	117	126	130	134	143	152
45	TC	110	107	99.2	95.5	91.8	84.6	77.4
	kW	7.47	7.76	8.32	8.58	8.83	9.28	9.68
	SDT	115	120	128	132	137	145	154
50	TC	121	117	109	105	101	93.2	85.5
	kW	7.79	8.11	8.72	9.00	9.28	9.79	10.2
	SDT	118	122	131	135	139	148	156

38AK013

SST (F)		Air Temperature Entering Condenser (F)					
		70	85	95	100	115	125
20	TC	73	66	61	59	52	47
	kW	5.8	6.4	6.7	6.9	7.3	7.5
	SDT	91	104	113	118	132	141
25	TC	82	74	68	66	58	53
	kW	6.0	6.7	7.1	7.3	7.7	8.0
	SDT	93	106	115	120	134	143
30	TC	90	82	76	73	65	60
	kW	6.3	7.0	7.5	7.7	8.2	8.5
	SDT	95	108	117	122	135	144
35	TC	100	90	84	81	72	67
	kW	6.5	7.4	7.9	8.1	8.7	9.1
	SDT	97	111	120	124	137	146
40	TC	110	100	93	90	80	74
	kW	6.8	7.7	8.3	8.5	9.2	9.6
	SDT	99	113	122	126	140	148
45	TC	120	109	102	99	89	82
	kW	7.0	8.0	8.6	8.9	9.7	10.2
	SDT	102	115	124	128	142	151
50	TC	131	120	112	108	97	90
	kW	7.3	8.4	9.0	9.3	10.2	10.7
	SDT	105	118	127	131	144	153

38AK016

SST (F)		Air Temperature Entering Condenser (F)					
		70	85	95	100	115	125
20	TC	112	101	94	90	80	73
	kW	9.7	10.6	11.0	113	11.8	1.1
	SDT	96	109	118	122	136	145
25	TC	125	112	104	101	89	82
	kW	10.3	11.2	11.8	12.0	12.7	13.0
	SDT	98	111	120	125	138	149
30	TC	138	124	116	112	99	91
	kW	10.8	11.9	12.5	12.8	13.5	13.9
	SDT	101	114	123	127	140	147
35	TC	152	137	128	123	110	—
	kW	11.4	12.5	13.2	13.5	14.4	—
	SDT	103	117	125	130	143	—
40	TC	166	151	141	136	121	—
	kW	12.0	13.2	14.0	14.4	15.3	—
	SDT	107	119	128	132	145	—
45	TC	181	165	154	149	133	—
	kW	12.6	14.0	14.8	15.2	16.2	—
	SDT	110	122	131	135	148	—
50	TC	198	180	168	163	—	—
	kW	13.2	14.7	15.6	16.0	—	—
	SDT	113	126	134	138	—	—

38AK024

SST (F)		Air Temperature Entering Condenser (F)					
		70	85	95	100	115	125
25	TC	152	146	134	128	122	109
	kW	13.1	13.5	14.2	14.5	14.8	15.2
	SDT	102	107	116	120	125	134
30	TC	174	168	155	148	141	128
	kW	13.9	14.3	15.1	15.5	15.8	16.3
	SDT	106	110	119	123	128	136
35	TC	196	189	175	168	161	147
	kW	14.7	15.2	16.1	16.5	16.9	17.5
	SDT	109	113	122	126	130	139
40	TC	218	211	196	188	181	166
	kW	15.4	16.0	17.0	17.5	17.9	18.6
	SDT	112	116	125	129	133	142
45	TC	240	232	216	209	201	184
	kW	16.2	16.8	17.9	18.4	18.9	19.8
	SDT	115	119	128	132	136	144
50	TC	262	254	237	229	220	203
	kW	17.0	17.6	18.9	19.4	20.0	20.9
	SDT	118	122	130	135	139	147

LEGEND

— — Out of Range
SDT — Saturated Discharge Temperature at Compressor (F)
KW — Compressor power
SST — Saturated Suction Temperature (F)
TC — Gross Cooling Capacity (1000 Btuh)

Performance Data (Cont.)

CONDENSING UNIT RATING

38AKS028

SST (F)		Air Temperature Entering Condenser (F)						
		80	85	95	100	105	115	125
20	TC	181.0	167.0	161.0	154.0	141.0	134.0	128.0
	kW	17.4	18.3	18.6	19.0	19.6	19.8	20.0
	SDT	108.0	117.0	122.0	126.0	136.0	141.0	145.0
25	TC	202.0	187.0	180.0	173.0	159.0	152.0	145.0
	kW	18.5	19.4	19.8	20.2	20.9	21.2	21.5
	SDT	110.0	119.0	124.0	128.0	137.0	142.0	146.0
30	TC	225.0	209.0	201.0	193.0	178.0	171.0	163.0
	kW	19.5	20.6	21.0	21.5	22.3	22.7	23.0
	SDT	112.0	121.0	126.0	130.0	139.0	143.0	148.0
35	TC	249.0	231.0	223.0	215.0	198.0	190.0	182.0
	kW	20.6	21.7	22.3	22.8	23.7	24.2	24.6
	SDT	115.0	123.0	128.0	132.0	141.0	145.0	150.0
40	TC	274.0	256.0	246.0	237.0	220.0	211.0	202.0
	kW	21.6	23.0	23.6	24.1	25.2	25.7	26.2
	SDT	117.0	126.0	130.0	135.0	143.0	148.0	152.0
45	TC	301.0	281.0	271.0	261.0	242.0	233.0	224.0
	kW	22.8	24.2	24.9	25.5	26.7	27.3	27.8
	SDT	120.0	129.0	133.0	137.0	146.0	150.0	154.0
50	TC	329.0	307.0	297.0	287.0	266.0	256.0	246.0
	kW	23.9	25.5	26.2	26.9	28.3	28.9	29.5
	SDT	123.0	131.0	136.0	140.0	148.0	152.0	157.0

38AKS034

SST (F)		Air Temperature Entering Condenser (F)						
		80	85	95	100	105	115	125
20	TC	203.0	187.0	178.0	170.0	153.0	145.0	136.0
	kW	20.0	20.8	21.1	21.4	21.8	21.8	21.8
	SDT	110.0	120.0	125.0	130.0	140.0	145.0	150.0
25	TC	230.0	212.0	204.0	195.0	176.0	167.0	158.0
	kW	21.0	22.0	22.4	22.8	23.4	23.6	23.7
	SDT	110.0	120.0	125.0	130.0	140.0	145.0	150.0
30	TC	256.0	239.0	230.0	221.0	202.0	192.0	182.0
	kW	22.0	23.0	23.7	24.1	24.9	25.3	25.5
	SDT	112.0	121.0	126.0	130.0	140.0	145.0	150.0
35	TC	283.0	265.0	256.0	247.0	228.0	218.0	208.0
	kW	23.1	24.4	25.0	25.5	26.5	26.9	27.2
	SDT	114.0	123.0	127.0	132.0	141.0	146.0	150.0
40	TC	311.0	292.0	282.0	273.0	253.0	243.0	233.0
	kW	24.3	25.7	26.4	27.0	28.1	28.6	29.0
	SDT	117.0	125.0	130.0	134.0	143.0	147.0	152.0
45	TC	340.0	320.0	310.0	300.0	279.0	269.0	259.0
	kW	25.4	27.0	27.8	28.5	29.7	30.3	30.8
	SDT	119.0	128.0	132.0	136.0	145.0	149.0	154.0
50	TC	371.0	350.0	339.0	328.0	307.0	296.0	285.0
	kW	26.6	28.4	29.2	30.0	31.4	32.1	32.7
	SDT	122.0	130.0	135.0	139.0	148.0	152.0	156.0

38AKS044

SST (F)		Air Temperature Entering Condenser (F)						
		80	85	95	100	105	115	125
20	TC	271.0	252.0	243.0	234.0	216.0	208.0	199.0
	kW	27.3	28.5	29.0	29.5	30.3	30.7	31.0
	SDT	109.0	119.0	124.0	129.0	139.0	144.0	149.0
25	TC	305.0	284.0	274.0	264.0	245.0	235.0	225.0
	kW	28.6	30.0	30.7	31.3	32.3	32.8	33.2
	SDT	109.0	119.0	124.0	129.0	139.0	144.0	149.0
30	TC	341.0	319.0	308.0	297.0	275.0	265.0	254.0
	kW	29.9	31.5	32.3	33.0	34.2	34.8	35.3
	SDT	109.0	119.0	124.0	129.0	139.0	144.0	149.0
35	TC	377.0	355.0	343.0	332.0	309.0	297.0	286.0
	kW	31.3	33.1	33.9	34.7	36.1	36.8	37.4
	SDT	111.0	120.0	125.0	129.0	139.0	144.0	149.0
40	TC	415.0	391.0	379.0	367.0	343.0	331.0	319.0
	kW	32.9	34.8	35.7	36.6	38.2	38.9	39.6
	SDT	113.0	122.0	126.0	131.0	140.0	145.0	150.0
45	TC	455.0	429.0	416.0	403.0	377.0	365.0	352.0
	kW	34.5	36.6	37.6	38.6	40.3	41.1	41.9
	SDT	115.0	124.0	128.0	133.0	142.0	147.0	151.0
50	TC	497.0	468.0	455.0	441.0	413.0	400.0	386.0
	kW	36.1	38.4	39.5	40.6	42.5	43.5	44.3
	SDT	117.0	126.0	131.0	135.0	144.0	149.0	153.0

LEGEND

—	—	Out of Range
SDT	—	Saturated Discharge Temperature at Compressor (F)
KW	—	Compressor power
SST	—	Saturated Suction Temperature (F)
TC	—	Gross Cooling Capacity (1000 Btuh)

38AK008/40RM007		WITH STANDARD 3-ROW COIL								
Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm								
		1800			2400			3000		
		Evaporator Air – Ewb (F)								
		72	67	62	72	67	62	72	67	62
85	TC	82.6	76.3	69.4	86.5	80.3	73.4	88.8	83.1	76.5
	SHC	41.5	50.9	65.1	45.9	59.7	73.4	51.6	66.2	76.5
	KW	5.55	5.40	5.23	5.64	5.49	5.33	5.69	5.56	5.40
95	TC	79.1	73.1	66.6	82.7	76.7	70.4	84.8	79.4	73.4
	SHC	40.0	49.6	62.8	44.5	58.3	70.4	50.3	64.8	73.4
	KW	6.07	5.88	5.67	6.18	5.99	5.79	6.25	5.08	5.89
100	TC	77.2	71.4	65.1	80.7	74.9	68.9	82.7	77.4	71.8
	SHC	39.2	49.0	61.6	43.8	57.5	68.8	49.6	64.0	71.8
	KW	6.32	6.11	5.88	6.45	6.24	6.02	6.52	6.33	6.13
105	TC	75.4	69.6	63.5	78.7	73.0	67.3	80.6	75.5	70.2
	SHC	38.5	48.3	60.3	43.0	56.8	67.2	48.9	63.3	70.2
	KW	6.57	6.35	6.11	6.69	6.47	6.25	6.77	6.57	6.37
115	TC	71.6	66.1	60.3	74.7	69.2	64.0	76.4	71.6	66.9
	SHC	36.8	47.0	57.7	41.5	55.3	64.0	47.5	61.8	66.9
	KW	7.05	6.79	6.51	7.20	6.96	6.68	7.29	7.05	6.82
125	TC	67.6	62.4	57.1	70.4	65.2	60.6	—	67.4	63.4
	SHC	35.1	45.5	55.0	39.9	53.7	60.6	—	60.3	63.5
	KW	7.57	7.27	6.95	7.74	7.43	7.16	—	7.56	7.32

38AK008/40RM008		WITH STANDARD 3-ROW COIL								
Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm								
					3000			3750		
		Evaporator Air – Ewb (F)								
		72	67	62	72	67	62	72	67	62
85	TC	89.3	82.5	75.7	92.2	86.3	80.2	94.4	89.0	83.6
	SHC	46.0	58.8	73.1	53.7	67.9	80.2	58.7	76.6	83.6
	KW	5.70	5.54	5.38	5.77	5.63	5.49	5.83	5.70	5.57
95	TC	85.3	78.8	72.4	87.8	82.3	76.7	89.8	84.8	80.0
	SHC	44.3	57.2	70.2	52.3	66.2	76.7	57.1	74.9	80.0
	KW	6.26	6.06	5.86	6.34	6.17	5.99	6.41	6.26	6.10
100	TC	83.2	76.9	70.7	85.6	80.2	74.9	87.5	82.7	78.1
	SHC	43.5	56.4	68.7	51.5	65.3	74.9	56.3	74.1	78.1
	KW	6.54	6.31	6.08	6.63	6.53	6.24	6.70	6.52	6.36
105	TC	81.2	75.0	68.9	83.4	78.2	73.1	85.3	80.6	76.3
	SHC	42.7	55.6	67.2	50.8	64.4	73.1	55.5	73.2	76.3
	KW	6.79	6.55	6.32	6.87	6.67	6.48	6.95	6.77	6.60
115	TC	77.0	71.0	65.3	78.9	73.9	69.4	80.6	76.2	72.5
	SHC	40.9	53.8	64.1	49.3	62.6	69.4	53.9	71.5	72.5
	KW	7.31	7.03	6.75	7.41	7.17	6.95	7.49	7.28	7.10
125	TC	72.5	66.9	61.6	74.1	69.5	65.5	75.6	71.6	68.5
	SHC	39.1	52.0	60.9	47.7	60.8	65.5	52.1	69.6	68.5
	KW	7.86	7.53	7.22	7.96	7.68	7.45	8.05	7.81	7.62

38AK008/40RM012		WITH STANDARD 3-ROW COIL								
Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm								
		3000			4000			5000		
		Evaporator Air – Ewb (F)								
		72	67	62	72	67	62	72	67	62
85	TC	97.3	90.2	83.8	—	93.6	88.7	101.6	95.5	93.0
	SHC	52.8	70.9	82.8	—	81.4	88.7	69.8	94.1	93.0
	KW	5.89	5.73	5.57	—	5.81	5.69	6.00	5.85	5.79
95	TC	92.7	85.9	79.9	—	89.0	84.7	96.5	90.7	88.9
	SHC	50.9	69.1	79.6	—	79.3	84.7	68.0	92.3	88.9
	KW	6.50	6.28	6.09	—	6.38	6.24	6.62	6.43	6.38
100	TC	—	83.7	77.9	—	86.7	82.6	93.9	88.3	86.7
	SHC	—	68.2	77.9	—	78.2	82.6	67.1	91.2	86.7
	KW	—	6.56	6.35	—	6.67	6.52	6.93	6.72	6.67
105	TC	—	81.6	75.9	—	84.5	80.2	91.5	85.9	84.7
	SHC	—	67.2	76.3	—	77.2	80.2	66.3	90.2	84.7
	KW	—	6.80	6.59	—	6.91	6.76	7.18	6.97	6.92
115	TC	—	77.1	71.8	—	79.3	76.3	—	—	—
	SHC	—	65.3	72.8	—	75.0	76.3	—	—	—
	KW	—	7.32	7.06	—	7.45	7.28	—	—	—
125	TC	—	72.4	67.5	—	—	—	—	—	—
	SHC	—	63.3	69.3	—	—	—	—	—	—
	KW	—	7.86	7.57	—	—	—	—	—	—

38AK009/40RM008		WITH STANDARD 3-ROW COIL								
Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm								
		2250			3000			3750		
		Evaporator Air – Ewb (F)								
		72	67	62	72	67	62	72	67	62
85	TC	102.7	94.9	86.7	107.0	99.9	91.7	109.9	103.2	95.4
	SHC	51.5	64.2	82.5	58.7	73.6	91.6	64.1	82.3	95.4
	KW	7.62	7.33	7.03	7.77	7.51	7.21	7.88	7.63	7.35
95	TC	98.2	90.5	82.5	102.2	95.3	87.5	104.9	98.5	91.2
	SHC	49.7	62.3	78.9	57.0	71.6	87.5	62.3	80.4	91.2
	KW	8.24	7.92	7.58	8.41	8.12	7.79	8.53	8.25	7.95
100	TC	95.7	88.3	80.7	99.3	92.7	85.5	101.9	95.8	89.1
	SHC	48.6	61.4	77.3	56.1	70.6	85.5	61.3	79.3	89.1
	KW	8.56	8.20	7.84	8.73	8.42	8.07	8.85	8.56	8.24
105	TC	93.2	96.0	78.7	96.6	80.2	83.4	99.0	93.2	86.9
	SHC	47.6	60.4	75.6	55.2	69.5	83.4	60.3	78.3	86.9
	KW	8.86	8.49	8.11	9.03	8.71	8.35	9.16	8.86	8.54
115	TC	88.2	81.3	74.5	91.2	85.2	79.0	93.4	87.9	82.5
	SHC	45.6	58.3	72.0	53.4	67.4	79.0	58.3	76.2	82.5
	KW	9.46	9.04	8.63	9.63	9.27	8.90	9.77	9.44	9.11
125	TC	—	76.5	70.1	—	80.0	74.5	—	82.6	77.8
	SHC	—	56.2	68.2	—	65.2	74.5	—	74.0	77.8
	KW	—	9.63	9.17	—	9.87	9.48	—	10.05	9.72

38AK009/40RM012		WITH STANDARD 3-ROW COIL								
Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm								
		3000			4000			5000		
		Evaporator Air – Ewb (F)								
		72	67	62	72	67	62	72	67	62
85	TC	113.0	104.8	96.9	116.9	109.2	102.4	119.1	111.8	106.9
	SHC	59.2	77.2	93.7	67.1	88.5	102.4	75.8	100.8	106.9
	KW	7.99	7.69	7.40	8.14	7.85	7.60	8.22	7.95	7.77
95	TC	108.1	99.9	92.3	111.8	104.2	97.8	—	106.7	102.4
	SHC	57.2	75.1	89.9	65.1	86.2	97.8	—	98.7	102.4
	KW	8.66	8.32	7.99	8.81	8.49	8.22	—	8.60	8.42
100	TC	105.0	97.2	89.9	108.4	101.2	95.2	—	103.4	99.8
	SHC	55.9	73.9	87.9	63.8	84.8	95.2	—	97.4	99.7
	KW	9.00	8.63	8.28	9.16	8.82	8.54	—	8.93	8.75
105	TC	102.1	94.5	87.5	105.2	98.3	92.7	—	100.4	97.2
	SHC	54.7	72.8	85.9	62.6	83.5	92.7	—	96.1	97.2
	KW	9.32	8.93	8.57	9.48	9.12	8.83	—	9.23	9.07
115	TC	96.4	89.1	82.6	—	92.6	87.7	—	94.5	92.1
	SHC	52.4	70.5	81.9	—	80.9	87.7	—	93.7	92.1
	KW	9.95	9.51	9.12	—	9.72	9.42	—	9.83	9.69
125	TC	—	83.6	77.6	—	86.8	82.5	—	88.4	86.8
	SHC	—	68.1	77.7	—	76.2	82.5	—	91.3	86.8
	KW	—	10.13	9.70	—	10.35	10.05	—	10.47	10.36

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

NOTE :

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

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

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

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

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

4. 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.

COMBINATION RATING

38AK012/40RM008 — WITH STANDARD 3-ROW COIL

Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm: 2250			3000			3750		
		Evaporator Air – Ewb (F): 72	67	62	72	67	62	72	67	62
85	TC	101.9	93.8	85.5	106.3	99.0	90.6	109.3	102.4	94.4
	SHC	51.2	63.8	81.4	58.4	73.2	90.6	63.8	81.9	94.9
	KW	7.59	7.31	7.03	7.73	7.49	7.20	7.84	7.60	7.33
95	TC	97.1	89.6	81.9	700.9	94.2	86.7	103.5	97.3	90.4
	SHC	49.2	61.9	78.4	56.6	71.2	86.7	61.8	79.9	90.4
	KW	8.23	7.91	7.58	8.39	8.11	7.79	8.51	8.24	7.94
100	TC	94.7	87.4	79.9	98.2	91.7	84.6	—	94.8	88.2
	SHC	48.2	61.0	76.6	55.7	70.2	84.6	—	78.9	88.2
	KW	8.54	8.20	7.84	8.71	8.40	8.07	—	8.54	8.24
105	TC	92.3	85.1	77.8	95.6	89.3	82.5	—	92.2	86.1
	SHC	47.2	60.0	74.9	54.6	69.1	82.5	—	77.9	86.1
	KW	8.86	8.48	8.11	9.03	8.70	8.35	—	8.85	8.53
115	TC	87.4	80.5	73.7	90.3	84.3	78.3	—	87.1	81.7
	SHC	45.2	58.0	71.3	53.1	67.0	78.3	—	75.8	81.7
	KW	9.45	9.04	8.64	9.62	9.26	8.91	—	9.43	9.11
125	TC	—	75.9	69.4	—	79.3	73.8	—	—	77.2
	SHC	—	55.9	67.7	—	64.9	73.8	—	—	77.2
	KW	—	9.57	9.13	—	9.81	9.43	—	—	9.67

38AK013/40RM012 — WITH STANDARD 3-ROW COIL

Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm: 3000			4000			5000		
		Evaporator Air – Ewb (F): 72	67	62	72	67	62	72	67	62
85	TC	113.5	105.6	97.9	117.3	109.9	103.2	119.4	112.4	107.6
	SHC	59.4	77.5	94.6	67.3	88.8	103.2	75.9	101.0	107.6
	KW	8.15	7.89	7.63	8.28	8.03	7.81	8.35	8.11	7.95
95	TC	108.5	100.7	93.2	112.1	104.8	98.6	114.1	107.2	103.0
	SHC	57.4	75.4	90.7	65.3	86.5	98.6	74.1	98.9	103.0
	KW	8.82	8.56	8.31	8.94	8.69	8.49	9.00	8.77	8.63
100	TC	106.4	98.6	91.2	109.8	102.6	96.6	111.8	104.9	101.1
	SHC	56.5	74.5	89.0	64.4	85.5	96.6	73.3	98.0	10.1
	KW	9.23	8.88	8.56	9.38	9.06	8.79	9.47	9.16	8.99
105	TC	104.0	96.2	89.0	107.4	100.2	94.3	109.3	102.4	98.9
	SHC	55.6	73.5	87.2	63.4	84.4	94.3	72.4	97.0	98.9
	KW	9.57	9.19	8.85	9.73	9.38	9.10	9.82	9.49	9.32
115	TC	99.3	91.6	84.6	102.4	95.3	89.9	104.2	97.4	94.5
	SHC	53.6	71.5	83.5	61.5	82.2	89.9	70.6	94.9	94.5
	KW	10.27	9.84	9.45	10.45	10.05	9.75	10.54	10.17	10.01
125	TC	93.3	86.3	80.1	95.9	89.6	85.0	97.4	91.3	89.3
	SHC	51.2	69.3	79.7	59.0	79.5	85.0	68.3	92.4	89.3
	KW	11.05	10.52	10.06	11.24	10.77	10.42	11.35	10.90	10.75

38AK012/40RM012 — WITH STANDARD 3-ROW COIL

Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm: 3000			4000			5000		
		Evaporator Air – Ewb (F): 72	67	62	72	67	62	72	67	62
85	TC	112.5	104.0	95.8	116.2	108.5	101.5	118.8	111.2	106.2
	SHC	59.0	76.8	92.9	67.0	88.2	101.5	75.7	100.5	106.2
	KW	7.95	7.66	7.38	8.08	7.81	7.57	8.16	7.90	7.73
95	TC	106.6	98.7	91.3	110.1	102.8	96.7	—	105.1	101.2
	SHC	56.6	74.6	89.1	64.5	85.6	96.7	—	98.1	101.2
	KW	8.64	8.30	7.98	8.79	8.47	8.21	—	8.57	8.41
100	TC	103.8	96.1	89.4	107.1	100.0	94.2	—	102.2	98.7
	SHC	55.5	73.5	87.1	63.4	84.3	94.2	—	96.9	98.7
	KW	8.97	8.61	8.27	9.13	8.79	8.52	—	8.90	8.73
105	TC	101.1	93.5	86.6	—	97.2	91.8	—	99.3	96.2
	SHC	54.3	72.4	85.1	—	83.0	91.8	—	95.7	96.2
	KW	9.31	8.92	8.56	—	9.11	8.83	—	9.22	9.06
115	TC	95.5	88.3	81.8	—	91.7	86.8	—	93.6	91.3
	SHC	52.1	70.1	81.2	—	80.5	86.8	—	93.3	91.3
	KW	9.92	9.50	9.11	—	9.70	9.41	—	9.81	9.67
125	TC	—	—	—	—	—	—	—	—	—
	SHC	—	—	—	—	—	—	—	—	—
	KW	—	—	—	—	—	—	—	—	—

38AK013/40RM014 — WITH STANDARD 3-ROW COIL

Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm: 3750			5000			6250		
		Evaporator Air – Ewb (F): 72	67	62	72	67	62	72	67	62
85	TC	118.9	109.9	103.5	122.2	114.1	109.3	124.6	116.8	114.0
	SHC	66.4	86.3	102.1	75.8	101.8	109.3	85.8	114.1	114.0
	KW	8.33	8.03	7.82	8.44	8.17	8.01	8.52	8.26	8.17
95	TC	113.7	104.7	98.7	116.8	108.8	104.5	119.1	111.4	109.1
	SHC	64.4	83.9	98.0	73.8	99.5	104.5	83.9	111.6	109.1
	KW	8.99	8.69	8.49	9.09	8.83	8.68	9.17	8.91	8.84
100	TC	111.5	102.5	96.6	114.5	106.6	102.4	116.8	109.1	107.1
	SHC	63.5	82.5	96.2	73.0	98.5	102.4	83.1	110.5	107.1
	KW	9.46	9.05	8.76	9.59	9.24	9.05	9.69	9.35	9.26
105	TC	109.0	100.0	94.3	111.9	104.0	100.1	114.2	106.5	104.8
	SHC	62.6	81.7	94.3	72.0	97.4	100.1	82.2	109.3	104.8
	KW	9.81	9.38	9.10	9.95	9.57	9.38	10.06	9.69	9.60
115	TC	104.1	95.1	89.7	106.8	99.0	95.5	109.0	101.4	100.2
	SHC	60.6	79.4	89.7	70.1	65.3	95.5	80.4	106.9	100.2
	KW	10.54	10.04	9.74	10.69	10.26	10.06	10.81	10.39	10.32
125	TC	97.4	89.2	84.7	99.7	92.7	90.0	101.6	94.8	94.3
	SHC	58.1	76.7	84.6	67.6	92.6	90.0	77.6	103.8	94.3
	KW	11.36	10.74	10.40	11.53	11.00	10.80	11.67	11.16	11.12

38AK012/40RM014 — WITH STANDARD 3-ROW COIL

Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm: 3750			5000			6250		
		Evaporator Air – Ewb (F): 72	67	62	72	67	62	72	67	62
85	TC	118.3	108.5	101.5	121.8	113.1	108.0	—	115.9	113.0
	SHC	66.1	85.6	100.6	75.6	101.3	108.0	—	113.7	113.0
	KW	8.14	7.81	7.58	8.26	7.97	7.79	—	8.06	7.96
95	TC	111.8	102.7	96.7	—	106.8	102.6	—	109.3	107.3
	SHC	63.6	82.9	96.3	—	98.6	102.6	—	110.6	107.3
	KW	8.86	8.47	8.21	—	8.64	8.47	—	8.75	8.67
100	TC	108.8	99.9	94.2	—	103.8	100.0	—	106.3	104.6
	SHC	62.5	81.6	94.2	—	97.4	100.0	—	109.2	104.6
	KW	9.21	8.79	8.52	—	8.97	8.79	—	9.09	9.01
105	TC	105.8	97.0	91.6	—	100.9	97.3	—	103.2	101.9
	SHC	61.3	80.3	92.0	—	96.1	97.3	—	107.8	101.9
	KW	9.55	9.10	8.82	—	9.30	9.12	—	9.42	9.35
115	TC	—	91.4	86.6	—	95.0	92.1	—	97.2	96.4
	SHC	—	77.7	87.7	—	93.6	92.1	—	105.0	96.4
	KW	—	9.68	9.40	—	9.89	9.72	—	10.02	9.98
125	TC	—	—	—	—	89.0	86.7	—	—	—
	SHC	—	—	—	—	91.0	86.7	—	—	—
	KW	—	—	—	—	10.49	10.32	—	—	—

38AK016/40RM014 — WITH STANDARD 3-ROW COIL

Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm: 3750			5000			6250		
		Evaporator Air – Ewb (F): 72	67	62	72	67	62	72	67	62
85	TC	158.9	146.6	134.6	165.3	153.4	142.4	169.6	157.9	148.5
	SHC	81.7	103.2	128.5	91.6	118.6	142.4	101.2	133.3	148.5
	KW	13.65	12.95	12.27	14.02	13.34	12.71	14.26	13.59	13.06
95	TC	151.9	140.2	129.3	157.6	146.4	136.7	161.5	150.6	142.6
	SHC	79.0	100.2	124.0	88.8	115.6	136.7	98.5	129.9	142.6
	KW	14.67	13.95	13.28	15.02	14.33	13.74	15.26	14.59	14.10
100	TC	148.5	136.9	126.3	154.1	143.0	133.7	158.0	147.1	139.5
	SHC	77.7	98.7	121.4	87.5	114.1	133.7	97.2	128.2	139.5
	KW	15.17	14.45	13.80	12.52	14.83	14.26	15.75	15.08	14.62
105	TC	145.0	133.5	123.4	150.3	139.4	130.6	154.0	143.4	136.4
	SHC	76.4	97.1	119.0	86.1	112.6	130.6	95.9	126.5	136.4
	KW	15.62	14.86	14.20	15.97	15.26	14.68	16.21	15.51	15.06
115	TC	137.6	126.5	117.4	—	132.1	124.4	—	135.8	130.0
	SHC	73.5	93.9	113.9	—	109.5	124.4	—	123.0	130.0
	KW	16.55	15.72	15.03	—	16.14	15.56	—	16.41	15.97
125	TC	—	116.6	109.7	—	120.9	115.5	—	—	—
	SHC	—	89.4	107.4	—	104.7	115.5	—	—	—
	KW	—	16.46	15.77	—	16.89	16.35	—	—	—

38AK013/40RM008 — WITH STANDARD 3-ROW COIL

Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm: 2250			3000			3750		
		Evaporator Air – Ewb (F): 72	67	62	72	67	62	72	67	62
85	TC	103.5	95.9	88.0	107.7	100.9	92.8	110.5	104.1	96.4
	SHC	51.9	64.7	83.6	58.9	74.0	92.8	64.3	82.6	96.4
	KW	7.82	7.56	7.30	7.96	7.73	7.46	8.05	7.84	7.58
95	TC	99.0	91.5	83.7	102.8	96.1	88.5	105.5	99.2	92.2
	SHC	50.0	62.8	79.9	57.3	72.0	88.5	62.5	80.7	92.2
	KW	8.50	8.25	7.99	8.63	8.40	8.15	8.72	8.51	8.27
100	TC	97.0	89.5	81.9	100.7	94.1	86.7	103.4	97.2	90.3
	SHC	49.2	61.9	78.4	56.6	71.1	86.7	61.8	79.9	90.3
	KW	8.81	8.48	8.14	8.98	8.68	8.35	9.09	8.82	8.51
105	TC	94.8	87.4	79.9	98.4	91.8	84.7	101.0	94.9	88.3
	SHC	48.3	61.0	76.6	55.8	70.2	84.7	60.9	78.9	88.3
	KW	9.13	8.77	8.41	9.30	8.98	8.64	9.42	9.13	8.81
115	TC	90.5	83.1	75.8	93.7	87.3	80.6	96.2	90.3	84.2
	SHC	46.5	59.1	73.1	54.2	68.3	80.6	59.3	77.1	84.2
	KW	9.78	9.37	8.97	9.96	9.61	9.23	10.10	9.77	9.44
125	TC	85.6	78.9	72.3	88.3	82.5	76.7	90.4	85.2	80.1
	SHC	4.45	57.3	70.1	52.4	66.3	76.7	57.3	75.1	80.1
	KW	10.47	9.97	9.47	10.67	10.24	9.81	10.83	10.44	10.06

38AK016/40RM016 — WITH STANDARD 3-ROW COIL

Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm: 4500			6000			7500		
		Evaporator Air – Ewb (F): 72	67	62	72	67	62	72	67	62
85	TC	170.0	157.8	146.2	175.3	164.9	154.7	179.8	169.3	161.3
	SHC	91.5	115.9	142.6	101.1	132.6	154.7	112.7	148.2	161.3
	KW	14.28	13.59	12.93	14.59	13.99	13.41	14.85	14.25	13.79
95	TC	161.7	150.5	139.9	166.4	157.0	147.8	170.6	161.0	154.1
	SHC	88.6	112.7	137.0	97.8	128.7	147.8	109.4	144.0	154.1
	KW	15.28	14.59	13.93	15.56	14.98	14.42	15.82	15.23	14.81
100	TC	158.1	147.1	136.8	162.6	153.4	144.4	166.8	157.3	150.7
	SHC	87.3	111.1	134.1	96.4	127.0	144.4	108.0	142.2	150.7
	KW	15.76	15.08	14.44	16.04	15.47	14.92	16.30	15.71	15.31
105	TC	154.1	143.4	133.2	158.3	149.4	140.9	162.4	153.2	147.1
	SHC	85.9	109.5	131.2	94.7	125.1	140.9	106.4	140.1	147.1
	KW	16.22	15.52	14.85	16.50	15.91	15.35	16.76	16.16	15.76
115	TC	—	135.9	126.4	—	141.4	133.6	—	—	—
	SHC	—	106.1	125.2	—	121.2	133.6	—	—	—
	KW	—	16.41	15.71	—	16.83	16.24	—	—	—
125	TC	—	—	116.6	—	—	—	—	—	—
	SHC	—	—	116.5	—	—	—	—	—	—
	KW	—	—	16.46	—	—	—	—	—	—

Performance Data (Cont.)

COMBINATION RATING

38AK016/40RM024		WITH STANDARD 3-ROW COIL								
Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm								
		6000			8000			10000		
		Evaporator Air – Ewb (F)								
		72	67	62	72	67	62	72	67	62
85	TC	183.5	170.7	106.5	188.9	176.0	169.9	190.6	181.1	177.5
	SHC	104.1	140.0	159.8	120.1	162.7	169.9	133.8	182.5	177.5
	KW	15.06	14.33	13.74	15.37	14.63	14.28	15.46	14.92	14.71
95	TC	174.1	162.1	153.0	179.0	166.8	161.9	180.2	171.6	169.1
	SHC	100.6	136.5	153.0	116.5	158.9	161.9	130.2	178.2	169.1
	KW	16.04	15.30	14.74	16.34	15.59	15.29	16.41	15.88	15.73
100	TC	170.3	158.4	149.5	175.0	163.0	158.4	176.2	167.7	165.6
	SHC	99.1	135.0	149.4	115.1	157.2	158.4	128.8	176.4	165.6
	KW	16.51	15.78	15.23	16.80	16.06	15.78	16.87	16.35	16.22
105	TC	165.7	154.2	145.7	170.3	158.5	154.4	171.3	163.2	161.5
	SHC	97.4	133.3	145.6	113.3	155.4	154.4	127.0	174.4	161.5
	KW	16.99	16.22	15.67	17.29	16.51	16.24	17.35	16.82	16.70
115	TC	—	145.6	137.9	—	—	146.3	—	—	—
	SHC	—	129.7	137.9	—	—	146.3	—	—	—
	KW	—	17.14	16.57	—	—	17.20	—	—	—
125	TC	—	—	—	—	—	—	—	—	—
	SHC	—	—	—	—	—	—	—	—	—
	KW	—	—	—	—	—	—	—	—	—

38AKS024/40RM016		WITH STANDARD 3-ROW COIL								
Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm								
		2500			3000			3750		
		Evaporator Air – Ewb (F)								
		72	67	62	72	67	62	72	67	62
85	TC	212.9	194.5	177.5	222.6	205.8	189.5	229.4	213.0	198.0
	SHC	106.7	132.4	170.1	118.8	152.4	189.5	130.4	170.0	198.0
	KW	16.07	15.37	14.72	16.44	15.80	15.18	16.70	16.08	15.51
95	TC	203.4	186.1	170.1	212.2	196.6	181.5	218.7	203.3	189.7
	SHC	103.3	128.6	163.6	114.9	147.9	181.5	126.7	165.1	189.7
	KW	17.33	16.56	15.83	17.73	17.03	16.35	18.02	17.33	16.72
100	TC	198.7	181.2	165.0	207.5	191.7	176.6	214.1	198.5	185.1
	SHC	101.7	126.4	159.1	113.2	145.6	176.6	124.9	162.7	185.1
	KW	17.96	17.21	16.52	18.33	17.66	17.01	18.62	17.95	17.37
105	TC	197.1	179.9	164.0	205.7	190.2	175.4	212.3	196.9	183.8
	SHC	101.1	125.8	158.2	112.5	144.9	175.3	124.2	161.9	183.8
	KW	18.15	17.37	16.65	18.54	17.84	17.17	18.83	18.18	17.55
115	TC	194.0	177.2	161.7	202.2	187.2	172.9	208.5	193.6	181.1
	SHC	100.0	124.7	156.3	111.2	143.4	172.9	122.9	160.3	181.1
	KW	18.55	17.71	16.94	18.96	18.21	17.49	19.28	18.53	17.91
125	TC	183.3	168.2	154.1	190.4	177.1	164.4	196.1	182.8	172.1
	SHC	96.2	120.6	149.6	106.8	138.5	164.3	118.5	154.9	172.1
	KW	19.75	18.75	17.81	20.23	19.34	18.49	20.61	19.72	19.01

38AKS024/40RM016		WITH STANDARD 3-ROW COIL								
Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm								
		2500			3000			3750		
		Evaporator Air – Ewb (F)								
		72	67	62	72	67	62	72	67	62
85	TC	212.9	194.5	177.5	222.6	205.8	189.5	229.4	213.0	198.0
	SHC	106.7	132.4	170.1	118.8	152.4	189.5	130.4	170.0	198.0
	KW	16.07	15.37	14.72	16.44	15.80	15.18	16.70	16.08	15.51
95	TC	203.4	186.1	170.1	212.2	196.6	181.5	218.7	203.3	189.7
	SHC	103.3	128.6	163.6	114.9	147.9	181.5	126.7	165.1	189.7
	KW	17.33	16.56	15.83	17.73	17.03	16.35	18.02	17.33	16.72
100	TC	198.7	181.2	165.0	207.5	191.7	176.6	214.1	198.5	185.1
	SHC	101.7	126.4	159.1	113.2	145.6	176.6	124.9	162.7	185.1
	KW	17.96	17.21	16.52	18.33	17.66	17.01	18.62	17.95	17.37
105	TC	197.1	179.9	164.0	205.7	190.2	175.4	212.3	196.9	183.8
	SHC	101.1	125.8	158.2	112.5	144.9	175.3	124.2	161.9	183.8
	KW	18.15	17.37	16.65	18.54	17.84	17.17	18.83	18.18	17.55
115	TC	194.0	177.2	161.7	202.2	187.2	172.9	208.5	193.6	181.1
	SHC	100.0	124.7	156.3	111.2	143.4	172.9	122.9	160.3	181.1
	KW	18.55	17.71	16.94	18.96	18.21	17.49	19.28	18.53	17.91
125	TC	183.3	168.2	154.1	190.4	177.1	164.4	196.1	182.8	172.1
	SHC	96.2	120.6	149.6	106.8	138.5	164.3	118.5	154.9	172.1
	KW	19.75	18.75	17.81	20.23	19.34	18.49	20.61	19.72	19.01

38AKS024/40RM024		WITH STANDARD 3-ROW COIL								
Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm								
		6000			8000			10000		
		Evaporator Air – Ewb (F)								
		72	67	62	72	67	62	72	67	62
85	TC	234.3	216.1	199.2	243.5	225.4	211.3	248.0	232.6	221.1
	SHC	123.5	158.7	193.5	139.8	183.6	211.3	154.0	206.1	221.1
	KW	16.89	16.19	15.55	17.24	16.55	16.01	17.14	16.82	16.39
95	TC	223.4	206.1	190.4	231.9	214.6	202.2	235.8	221.5	211.7
	SHC	119.3	154.5	185.8	135.6	179.0	202.2	149.7	201.0	211.7
	KW	18.23	17.45	16.75	18.61	17.83	17.28	18.79	18.15	17.71
100	TC	218.0	201.1	185.4	227.6	209.7	197.6	231.4	216.8	207.4
	SHC	117.7	152.5	181.5	134.1	177.0	197.6	148.2	198.9	207.4
	KW	18.83	18.06	17.39	19.20	18.43	17.91	19.36	18.74	18.33
105	TC	217.1	199.5	184.1	225.5	207.9	196.1	229.3	214.9	205.8
	SHC	116.9	151.8	180.3	133.3	179.2	196.1	147.4	198.0	205.8
	KW	19.05	18.26	17.56	19.43	18.64	18.11	19.60	18.95	18.54
115	TC	213.2	196.1	181.3	221.4	204.2	193.1	224.8	211.0	202.6
	SHC	115.5	150.4	177.9	131.8	174.6	193.1	145.9	196.2	202.6
	KW	19.51	18.65	17.91	19.92	19.06	18.50	20.09	19.40	18.98
125	TC	200.5	184.8	171.8	207.6	191.8	182.8	210.3	198.1	191.7
	SHC	110..6	145.8	169.6	126.8	169.4	182.8	140.7	190.3	191.7
	KW	20.90	19.85	18.98	11.37	20.32	19.72	21.55	20.74	20.32

38AKS024/40RM028		WITH STANDARD 3-ROW COIL								
Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm								
		7500			10000			12500		
		Evaporator Air – Ewb (F)								
		72	67	62	72	67	62	72	67	62
85	TC	3229	298.4	272.1	336.1	311.1	287.8	344.0	321.0	301.3
	SHC	166.0	209.6	265.5	186.7	242.5	287.8	206.3	272.4	301.3
	KW	24.75	23.82	22.82	25.25	24.30	23.42	25.55	24.68	23.93
95	TC	310.6	286.4	262.1	323.0	298.4	277.7	330.3	308.1	291.0
	SHC	161.5	204.7	256.4	182.0	237.3	277.6	201.8	266.8	291.0
	KW	26.56	25.44	24.31	27.14	26.00	25.03	27.48	26.45	25.65
100	TC	304.2	279.9	256.4	316.5	291.8	272.1	323.5	301.5	285.4
	SHC	159.1	202.1	251.2	179.8	234.5	272.1	199.5	263.9	285.4
	KW	27.51	26.29	25.12	28.12	26.89	25.90	28.47	27.38	26.57
105	TC	297.9	274.0	251.9	309.6	285.5	267.2	316.2	295.0	280.3
	SHC	156.8	199.7	247.0	177.4	231.9	267.2	197.1	261.1	280.3
	KW	28.38	27.06	25.83	29.03	27.69	26.68	29.40	28.22	27.40
115	TC	284.2	260.6	204.7	295.2	271.5	255.9	301.2	280.9	268.6
	SHC	151.8	194.4	236.7	172.3	226.2	255.9	192.1	254.9	268.6
	KW	30.02	28.57	27.34	30.70	29.34	28.28	31.06	29.82	29.06
125	TC	271.2	247.3	229.1	281.7	257.8	244.4	287.2	267.3	257.2
	SHC	147.0	189.0	226.1	167.6	220.6	244.4	187.4	249.0	257.2
	KW	31.64	59.99	28.73	32.37	30.72	29.79	32.75	31.37	30.67

38AKS028/40RM028		WITH STANDARD 3-ROW COIL								
Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm								
		7500			10000			12500		
		Evaporator Air – Ewb (F)								
		72	67	62	72	67	62	72	67	62
85	TC	298.5	274.6	252.4	310.3	286.1	267.8	316.9	295.7	280.8
	SHC	157.1	200.0	247.5	177.6	232.2	267.8	197.3	261.4	280.8
	KW	22.69	21.63	20.64	23.21	22.14	21.32	23.51	22.56	21.90
95	TC	285.4	262.5	242.8	296.2	273.1	257.5	302.0	282.2	270.0
	SHC	152.2	195.1	238.6	172.6	226.9	257.5	192.3	255.2	270.0
	KW	24.41	23.31	22.36	24.93	23.82	23.07	25.21	24.26	23.67
100	TC	278.8	255.7	236.9	289.3	266.2	251.7	294.9	275.3	264.2
	SHC	149.8	192.4	233.2	170.2	224.0	251.7	190.0	252.3	264.2
	KW	25.31	24.10	23.13	25.85	24.65	23.90	26.14	25.13	24.55
105	TC	271.9	249.3	231.7	281.9	259.3	246.2	287.1	268.2	258.4
	SHC	147.3	189.8	228.5	167.6	221.2	246.2	187.4	249.4	258.4
	KW	26.13	24.82	23.79	26.72	25.40	24.64	27.02	25.92	25.35
115	TC	258.1	236.6	221.4	267.2	245.8	235.3	271.6	254.2	246.9
	SHC	142.2	184.7	219.0	162.4	215.6	235.3	182.2	243.3	246.9
	KW	27.80	26.33	25.30	28.41	26.96	26.24	28.72	27.53	27.03
125	TC	—	224.0	210.2	—	—	224.3	—	—	—
	SHC	—	179.5	208.8	—	—	224.3	—	—	—
	KW	—	27.80	26.80	—	—	27.82	—	—	—

38AKS028/40RM034		WITH STANDARD 3-ROW COIL								
Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm								
		9000			12000			15000		
		Evaporator Air – Ewb (F)								
		72	67	62	72	67	62	72	67	62
85	TC	317.8	291.3	271.9	328.5	302.8	289.0	334.2	312.9	302.9
	SHC	172.3	224.7	268.2	199.4	261.6	289.0	221.4	295.1	302.9
	KW	23.55	22.37	21.51	24.02	22.88	22.27	24.28	23.33	22.88
95	TC	302.9	277.5	260.7	312.6	288.1	277.0	317.6	297.8	290.3
	SHC	166.7	219.2	258.0	194.0	255.7	277.0	215.9	288.5	290.3
	KW	25.25	24.03	23.22	25.72	24.54	24.01	25.95	25.01	24.64
100	TC	295.9	270.3	254.3	305.4	280.8	270.7	310.1	290.5	284.0
	SHC	164.0	216.4	252.3	191.5	252.8	270.7	213.4	285.3	284.0
	KW	26.20	24.86	24.03	26.69	25.41	24.89	26.93	25.92	25.58
105	TC	288.2	263.1	248.3	297.1	273.2	264.4	301.5	282.6	277.3
	SHC	161.1	213.5	246.8	188.7	249.7	264.4	210.5	281.8	277.3
	KW	27.08	25.62	24.76	27.61	26.21	25.70	27.86	26.76	26.45
115	TC	—	248.9	236.5	—	258.1	251.7	—	—	263.9
	SHC	—	207.9	236.1	—	243.6	251.7	—	—	263.9
	KW	—	27.17	26.32	—	27.80	27.36	—	—	28.20
125	TC	—	—	224.6	—	—	—	—	—	—
	SHC	—	—	224.5	—	—	—	—	—	—
	KW	—	—	27.84	—	—	—	—	—	—

38AKS034/40RM028		WITH STANDARD 3-ROW COIL								
Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm								
		7500			10000			12500		
		Evaporator Air – Ewb (F)								
		72	67	62	72	67	62	72	67	62
85	TC	250.6	229.7	215.7	259.1	238.4	229.3	263.2	246.6	240.5
	SHC	139.5	181.8	213.8	159.6	212.6	229.3	179.4	240.0	240.5
	KW	17.51	16.71	16.18	17.83	17.04	16.70	17.99	17.36	17.12
95	TC	238.6	218.2	205.9	246.5	226.4	219.2	250.1	234.4	230.1
	SHC	135.0	177.2	204.8	155.2	207.7	219.2	175.0	234.6	230.1
	KW	18.92	18.00	17.45	19.27	19.37	18.04	19.43	18.73	18.53
100	TC	234.5	213.3	201.2	242.6	221.6	214.9	246.1	230.0	226.1
	SHC	133.5	175.2	200.5	153.8	205.7	214.9	173.7	232.7	226.1
	KW	19.49	18.58	18.06	19.84	18.94	18.65	19.99	19.30	19.13
105	TC	232.4	211.3	199.5	240.3	219.5	213.2	243.7	227.8	224.3
	SHC	132.7	174.4	199.0	153.0	204.9	213.2	172.9	231.7	224.3
	KW	19.74	18.79	18.26	20.10	19.16	18.87	20.26	19.54	19.38
115	TC	228.0	207.4	196.3	235.6	215.3	209.6	238.8	223.4	220.5
	SHC	131.1	172.8	196.0	151.3	203.1	209.6	171.3	229.8	220.5
	KW	20.25	19.22	18.66	20.63	19.61	19.33	20.79	201.02	18.99
125	TC	—	194.3	185.2	—	201.4	197.8	—	—	208.0
	SHC	—	167.5	185.2	—	197.4	197.8	—	—	208.0
	KW	—	20.48	19.88	—	20.96	20.72	—	—	21.40

Performance Data (Cont.)

COMBINATION RATING - 4-ROW HIGH CAPACITY COILS

38AKS034/40RM034		WITH STANDARD 3-ROW COIL								
Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm								
		9000			12000			15000		
		Evaporator Air – Ewb (F)								
		72	67	62	72	67	62	72	67	62
85	TC	344.6	317.4	294.0	256.9	330.1	311.5	363.8	340.6	326.0
	SHC	182.5	235.1	288.2	209.0	272.7	311.5	231.3	307.3	326.0
	KW	25.57	24.55	23.65	26.04	25.02	24.32	26.30	25.42	24.87
95	TC	331.0	304.2	282.8	342.5	316.2	300.1	348.8	326.6	314.3
	SHC	177.3	229.8	278.1	204.1	267.1	300.1	226.3	301.1	314.3
	KW	27.51	26.27	25.27	28.05	26.82	26.08	28.34	27.31	26.74
100	TC	324.3	297.3	276.8	355.5	309.2	294.1	341.6	319.6	308.3
	SHC	174.8	227.1	272.6	201.7	264.2	294.1	223.9	298.0	308.3
	KW	28.51	27.16	26.14	29.08	27.76	27.00	29.38	28.28	27.72
105	TC	317.1	290.6	271.3	327.8	302.1	288.4	333.5	312.2	302.3
	SHC	172.0	224.4	267.7	199.1	261.4	288.4	221.2	294.8	302.3
	KW	29.45	27.98	26.91	30.05	28.62	27.85	30.36	29.18	28.63
115	TC	302.2	276.0	258.9	312.1	286.9	275.7	317.2	296.8	289.3
	SHC	166.4	218.6	256.4	193.8	255.2	275.6	215.7	288.0	289.3
	KW	31.12	29.51	28.46	31.74	30.19	29.49	32.05	30.80	30.33
125	TC	288.3	261.8	246.5	—	272.5	263.3	—	282.5	276.9
	SHC	161.1	213.0	245.1	—	249.4	263.3	—	281.7	276.9
	KW	32.83	30.99	29.93	—	31.73	31.10	—	32.43	32.04

38AKS044/40RM034		WITH STANDARD 3-ROW COIL								
Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm								
		9000			12000			15000		
		Evaporator Air – Ewb (F)								
		72	67	62	72	67	62	72	67	62
85	TC	413.7	382.6	344.5	432.1	399.8	364.9	443.5	412.4	382.2
	SHC	208.7	260.9	334.0	234.4	300.7	364.9	257.8	338.8	382.2
	KW	32.85	31.60	30.08	33.58	32.29	30.89	34.04	32.80	31.59
95	TC	399.2	368.7	333.6	416.4	384.9	353.6	426.9	397.2	370.5
	SHC	203.2	255.4	324.2	229.1	294.7	353.6	252.3	332.2	370.5
	KW	35.19	33.74	32.08	36.00	34.51	33.03	36.50	35.10	33.83
100	TC	391.8	361.5	328.0	408.3	377.3	347.7	418.3	389.4	364.4
	SHC	200.4	252.5	319.0	226.4	291.7	347.7	294.4	328.7	364.4
	KW	36.36	34.80	33.08	37.21	35.61	34.09	37.72	36.24	34.95
105	TC	384.2	354.1	322.2	400.1	369.5	341.7	409.6	381.5	358.2
	SHC	197.5	249.6	313.8	223.6	288.5	341.7	246.5	325.2	358.2
	KW	37.55	35.88	34.11	38.44	36.74	35.20	38.97	37.41	36.11
115	TC	368.5	339.0	310.2	383.1	353.5	329.2	391.7	365.1	345.2
	SHC	191.5	243.6	302.9	217.8	282.1	329.2	240.6	318.1	345.2
	KW	39.77	37.95	36.17	40.68	38.85	37.35	41.21	39.57	38.33
125	TC	352.6	323.3	297.2	366.4	337.2	316.0	374.3	348.7	331.7
	SHC	185.5	237.4	291.1	212.2	275.5	316.0	234.8	310.8	331.7
	KW	41.94	39.90	30.08	42.91	40.87	39.39	43.45	41.67	40.48

38AK008/40RM007		WITH STANDARD 3-ROW COIL								
Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm								
		1800			2400			3000		
		Evaporator Air – Ewb (F)								
		72	67	62	72	67	62	72	67	62
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 STANDARD 3-ROW COIL								
Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm								
		2250			3000			3750		
		Evaporator Air – Ewb (F)								
		72	67	62	72	67	62	72	67	62
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 STANDARD 3-ROW COIL								
Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm								
		2250			3000			3750		
		Evaporator Air – Ewb (F)								
		72	67	62	72	67	62	72	67	62
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 STANDARD 3-ROW COIL								
Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm								
		3000			4000			5000		
		Evaporator Air – Ewb (F)								
		72	67	62	72	67	62	72	67	62
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	505	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

COMBINATION RATING - 4-ROW HIGH CAPACITY COILS CONT.

38AKS009/40RM012 — WITH STANDARD 3-ROW COIL

Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm: 3000			4000			5000		
		Evaporator Air – Ewb (F): 72	67	62	72	67	62	72	67	62
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

38AKS013/40RM008 — WITH STANDARD 3-ROW COIL

Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm: 2250			3000			3750		
		Evaporator Air – Ewb (F): 72	67	62	72	67	62	72	67	62
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

38AKS012/40RM008 — WITH STANDARD 3-ROW COIL

Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm: 2250			3000			3750		
		Evaporator Air – Ewb (F): 72	67	62	72	67	62	72	67	62
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

38AKS013/40RM012 — WITH STANDARD 3-ROW COIL

Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm: 3000			4000			5000		
		Evaporator Air – Ewb (F): 72	67	62	72	67	62	72	67	62
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

38AKS012/40RM012 — WITH STANDARD 3-ROW COIL

Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm: 3000			4000			5000		
		Evaporator Air – Ewb (F): 72	67	62	72	67	62	72	67	62
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

38AKS013/40RM014 — WITH STANDARD 3-ROW COIL

Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm: 3750			5000			6250		
		Evaporator Air – Ewb (F): 72	67	62	72	67	62	72	67	62
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	8.69	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

38AKS012/40RM014 — WITH STANDARD 3-ROW COIL

Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm: 3750			5000			6250		
		Evaporator Air – Ewb (F): 72	67	62	72	67	62	72	67	62
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

38AKS016/40RM014 — WITH STANDARD 3-ROW COIL

Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm: 3750			5000			6250		
		Evaporator Air – Ewb (F): 72	67	62	72	67	62	72	67	62
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

COMBINATION RATING - 4-ROW HIGH CAPACITY COILS CONT.

38AKS016/40RM016		WITH STANDARD 3-ROW COIL								
Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm								
		4500			6000			7500		
		Evaporator Air – Ewb (F)								
		72	67	62	72	67	62	72	67	62
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

38AKS024/40RM028		WITH STANDARD 3-ROW COIL								
Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm								
		7500			10000			12500		
		Evaporator Air – Ewb (F)								
		72	67	62	72	67	62	72	67	62
85	TC	219.1	238.8	259.8	234.2	248.0	269.2	246.5	254.5	275.5
	SHC	212.0	176.1	136.4	234.2	204.1	153.7	246.5	229.5	17.0
	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
	SHC	211.7	171.8	132.0	224.9	199.4	149.6	236.6	224.0	165.8
	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
	SHC	205.0	170.8	130.1	220.4	197.5	147.7	231.6	221.6	163.6
	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
	SHC	199.7	167.7	128.0	215.6	195.3	145.5	226.3	219.0	161.6
	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
	SHC	194.0	163.3	123.9	206.1	190.4	142.5	215.7	212.8	157.4
	KW	22.37	22.62	23.74	22.65	23.07	24.94	23.25	23.34	24.44

38AK016/40RM024		WITH STANDARD 3-ROW COIL								
Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm								
		6000			8000			10000		
		Evaporator Air – Ewb (F)								
		72	67	62	72	67	62	72	67	62
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

38AKS028/40RM024		WITH STANDARD 3-ROW COIL								
Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm								
		6000			8000			10000		
		Evaporator Air – Ewb (F)								
		72	67	62	72	67	62	72	67	62
85	TC	257.4	282.2	308.4	274.1	299.2	325.8	284.9	310.4	337.3
	SHC	205.5	164.8	123.1	243.4	191.9	138.8	275.4	217.4	153.8
	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
	SHC	201.1	160.7	119.4	238.5	188.0	135.0	272.0	213.4	150.2
	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
	SHC	198.8	158.6	117.4	235.6	185.9	133.2	265.3	211.4	148.3
	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
	SHC	196.7	156.6	115.5	233.7	183.9	131.2	260.1	209.2	146.4
	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
	SHC	192.3	152.5	111.5	228.2	179.7	127.5	248.8	204.9	142.6
	KW	26.26	27.68	29.15	27.11	28.52	29.99	27.95	29.06	30.52

38AKS024/40RM016		WITH STANDARD 3-ROW COIL								
Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm								
		4500			6000			7500		
		Evaporator Air – Ewb (F)								
		72	67	62	72	67	62	72	67	62
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

38AKS028/40RM028		WITH STANDARD 3-ROW COIL								
Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm								
		7500			10000			12500		
		Evaporator Air – Ewb (F)								
		72	67	62	72	67	62	72	67	62
85	TC	263.5	287.8	313.2	277.6	301.7	327.2	290.9	310.7	336.6
	SHC	229.3	181.2	131.6	269.1	212.1	149.7	290.9	241.2	167.2
	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
	SHC	224.7	177.1	127.8	264.8	208.0	146.1	279.3	236.9	163.5
	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
	SHC	222.5	175.1	126.0	258.5	206.1	144.4	273.5	234.7	161.7
	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
	SHC	220.0	173.1	124.1	253.0	204.1	142.6	267.5	232.5	159.7
	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
	SHC	215.1	169.0	120.5	241.9	199.8	138.9	255.1	228.1	156.2
	KW	26.45	27.84	29.26	27.41	28.49	29.92	28.27	28.94	30.35

38AKS024/40RM024		WITH STANDARD 3-ROW COIL								
Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm								
		6000			8000			10000		
		Evaporator Air – Ewb (F)								
		72	67	62	72	67	62	72	67	62
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	118.21	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	2066
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	22.29	23.32

38AKS028/40RM034		WITH STANDARD 3-ROW COIL								
Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm								
		9000			12000			15000		
		Evaporator Air – Ewb (F)								
		72	67	62	72	67	62	72	67	62
85	TC	279.7	305.5	332.1	296.4	318.0	345.0	312.8	326.3	353.3
	SHC	259.7	204.9	146.4	296.4	241.8	168.3	312.8	275.6	189.0
	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
	SHC	255.4	200.8	142.6	284.9	237.5	164.4	299.8	271.3	185.4
	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
	SHC	252.0	198.9	140.9	278.9	235.3	162.6	293.4	268.8	183.6
	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
	SHC	248.4	196.7	139.0	272.8	233.2	160.9	286.8	266.0	181.8
	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
	SHC	241.1	192.4	135.2	260.3	228.8	157.2	273.6	260.8	177.9
	KW	27.44	28.82	30.28	28.68	29.46	30.91	29.54	29.85	31.32

38AKS034/40RM028		WITH STANDARD 3-ROW COIL								
Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm								
		7500			10000			12500		
		Evaporator Air – Ewb (F)								
		72	67	62	72	67	62	72	67	62
85	TC	280.1	305.6	332.5	294.8	320.8	347.7	307.1	331.0	357.9
	SHC	235.6	187.1	137.0	276.9	217.7	154.8	307.1	246.9	172.1
	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
	SHC	230.9	182.8	133.3	271.9	213.6	151.0	295.4	242.9	168.4
	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
	SHC	228.6	180.6	131.1	268.8	211.6	149.2	289.5	240.7	166.7
	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
	SHC	226.3	178.5	129.1	268.8	209.5	147.4	283.4	238.5	164.8
	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
	SHC	221.5	174.2	125.2	256.2	205.3	143.6	271.0	234.0	160.8
	KW	27.99	29.48	31.00	28.88	30.27	31.81	29.86	30.76	32.29

38AKS034/40RM034		WITH STANDARD 3-ROW COIL								
Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm								
		9000			12000			15000		
		Evaporator Air – Ewb (F)								
		72	67	62	72	67	62	72	67	62
85	TC	297.9	324.3	352.1	312.9	338.8	366.7	330.1	347.7	375.8
	SHC	267.9	210.7	151.5	312.9	247.8	173.3	330.1	282.1	194.1
	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
	SHC	262.5	206.5	147.7	300.9	243.5	169.7	317.7	277.4	190.2
	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
	SHC	260.2	204.5	145.9	295.0	241.3	167.8	311.0	275.1	188.5
	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
	SHC	257.6	202.4	143.9	289.0	239.1	165.8	304.3	272.9	186.6
	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
	SHC	251.0	198.0	139.9	276.5	234.5	161.9	290.6	267.7	182.7
	KW	28.99	30.49	32.08	30.21	31.18	32.75	31.11	31.66	33.21

38AKS044/40RM034		WITH STANDARD 3-ROW COIL								
Temp (F) Air Entering Condenser (Edb)		Evaporator Air – Cfm								
		9000			12000			15000		
		Evaporator Air – Ewb (F)								
		72	67	62	72	67	62	72	67	62
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	103.6	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

NOTE :

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

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

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

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

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

4. 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.

38XD CONDENSING UNIT RATING

R-22	Entering Air Temperature (deg. C)							
SST = 0 (C)	30		35		40		45	
UNIT 38XD	CAP. KW	POWER KW	CAP. KW	POWER KW	CAP. KW	POWER KW	CAP. KW	POWER KW
040	110	29	103	32	97	35	89	38
050	137	37	129	41	121	44	112	48
060	157	43	153	44	136	50	122	55
070	187	49	175	53	162	59	151	63
080	220	58	206	64	194	70	178	76
090	247	66	232	73	218	79	201	86
100	274	74	258	82	242	88	224	96
110	294	80	282	85	257	94	234	103
120	314	86	306	88	272	100	244	110
140	374	98	350	106	324	118	302	126
160	424	112	400	124	372	136	348	146
180	468	124	440	136	405	149	375	160
200	512	136	480	148	438	162	402	174
220	553	147	521	159	479	174	438	189
240	594	158	562	170	520	186	474	204
260	636	170	608	181	560	201	517	219
280	678	182	654	192	600	216	560	234

R-407C	Entering Air Temperature (deg. C)							
SST = 0 (C)	30		35		40		45	
UNIT 38XD	CAP. KW	POWER KW	CAP. KW	POWER KW	CAP. KW	POWER KW	CAP. KW	POWER KW
040	106	28	99	31	93	34	86	37
050	132	36	124	39	116	42	108	46
060	151	41	147	42	131	48	117	53
070	180	47	168	51	156	57	145	61
080	212	56	198	62	187	67	171	73
090	238	63	223	70	210	76	193	83
100	263	71	248	79	233	85	215	92
110	283	77	271	82	247	90	225	99
120	302	83	294	85	262	96	235	106
140	360	94	337	102	312	113	290	121
160	408	108	385	119	358	131	335	140
180	450	119	423	131	389	143	361	154
200	492	131	462	142	421	156	387	167
220	532	141	501	153	461	167	421	182
240	571	152	540	163	500	179	456	196
260	612	163	585	174	538	193	497	211
280	652	175	629	185	577	208	538	225

R-22	Entering Air Temperature (deg. C)							
SST = 7 (C)	30		35		40		45	
UNIT 38XD	CAP. KW	POWER KW	CAP. KW	POWER KW	CAP. KW	POWER KW	CAP. KW	POWER KW
040	139	32	133	34	124	37	113	41
050	172	39	162	43	152	47	141	52
060	198	47	187	50	173	55	160	59
070	234	53	222	57	207	63	191	69
080	278	64	266	68	248	74	226	82
090	311	71	295	77	276	84	254	93
100	344	78	324	86	304	94	282	104
110	370	86	349	93	325	102	301	111
120	396	94	374	100	346	110	320	118
140	468	106	444	114	414	126	382	138
160	530	120	504	130	472	144	438	158
180	592	134	554	145	520	158	477	173
200	654	148	604	160	568	172	516	188
220	703	159	655	173	617	185	565	203
240	752	170	706	186	666	198	614	218
260	803	181	756	199	715	213	660	235
280	854	192	806	212	764	228	706	252

R-407C	Entering Air Temperature (deg. C)							
SST = 7 (C)	30		35		40		45	
UNIT 38XD	CAP. KW	POWER KW	CAP. KW	POWER KW	CAP. KW	POWER KW	CAP. KW	POWER KW
040	134	31	128	33	119	36	109	39
050	165	38	156	41	146	45	136	50
060	190	45	180	48	166	53	154	57
070	225	51	213	55	199	61	184	66
080	267	62	256	65	238	71	217	79
090	299	68	284	74	265	81	244	89
100	331	75	312	83	292	90	271	100
110	356	83	336	89	313	98	289	107
120	381	90	360	96	333	106	308	113
140	450	102	427	110	398	121	367	133
160	510	115	485	125	454	138	421	152
180	569	129	533	139	500	152	459	166
200	629	142	581	154	546	165	496	181
220	676	153	630	166	593	178	543	195
240	723	163	679	179	640	190	590	210
260	772	174	727	191	688	205	635	226
280	821	185	775	204	735	219	679	242

R-22	Entering Air Temperature (deg. C)							
SST =10 (C)	30		35		40		45	
UNIT 38XD	CAP. KW	POWER KW	CAP. KW	POWER KW	CAP. KW	POWER KW	CAP. KW	POWER KW
040	152	33	145	36	136	39	126	42
050	188	40	178	44	169	48	160	53
060	218	49	206	52	193	56	146	61
070	259	55	244	60	227	65	214	70
080	304	66	290	72	272	78	252	84
090	340	73	323	80	305	87	286	95
100	376	80	356	88	338	96	320	106
110	406	89	384	96	362	104	306	114
120	436	98	412	104	386	112	292	122
140	518	110	488	120	454	130	428	140
160	578	126	552	136	518	148	486	160
180	643	141	610	152	572	164	528	178
200	708	156	668	168	626	180	570	196
220	765	167	720	181	678	193	622	211
240	822	178	772	194	730	206	674	226
260	878	189	826	207	782	221	723	243
280	934	200	880	220	834	236	772	260

R-407C	Entering Air Temperature (deg. C)							
SST =10 (C)	30		35		40		45	
UNIT 38XD	CAP. KW	POWER KW	CAP. KW	POWER KW	CAP. KW	POWER KW	CAP. KW	POWER KW
040	146	32	139	35	131	38	121	40
050	181	38	171	42	163	46	154	51
060	210	47	198	50	186	54	140	59
070	249	53	235	58	218	63	206	67
080	292	63	279	69	262	75	242	81
090	327	70	311	77	293	84	275	91
100	362	77	342	85	325	92	308	102
110	390	86	369	92	348	100	294	110
120	419	94	396	100	371	108	281	117
140	498	106	469	115	437	125	412	135
160	556	121	531	131	498	142	467	154
180	618	136	587	146	550	158	508	171
200	681	150	642	162	602	173	548	188
220	736	161	692	174	652	186	598	203
240	790	171	742	187	702	198	648	217
260	844	182	794	199	752	213	695	234
280	898	192	846	212	802	227	742	250

38XD CONDENSING UNIT RATING

R-134a	Entering Air Temperature (deg. C)							
SST = 0 (C)	30		35		40		45	
UNIT 38XD	CAP. KW	POWER KW	CAP. KW	POWER KW	CAP. KW	POWER KW	CAP. KW	POWER KW
040	79	17	74	19	70	21	64	23
050	99	22	93	24	87	26	81	29
060	114	26	107	28	100	31	92	34
070	133	29	124	32	115	35	106	38
080	158	35	149	38	139	42	129	47
090	178	39	168	43	157	48	145	53
100	198	43	187	48	175	53	162	58
110	213	47	200	52	187	57	173	63
120	227	51	214	56	199	62	184	69
140	265	58	248	63	231	70	212	77
160	304	67	286	73	268	81	248	89
180	342	74	323	82	302	90	281	100
200	380	82	359	90	337	99	314	110
220	407	88	384	96	361	106	336	118
240	433	93	410	103	384	113	358	125
260	467	100	441	110	414	121	386	134
280	500	107	473	117	444	129	413	143

R-134a	Entering Air Temperature (deg. C)							
SST = 7 (C)	30		35		40		45	
UNIT 38XD	CAP. KW	POWER KW	CAP. KW	POWER KW	CAP. KW	POWER KW	CAP. KW	POWER KW
040	103	19	97	21	91	23	85	25
050	129	23	122	26	115	28	107	31
060	151	28	142	30	133	33	123	37
070	175	31	165	34	153	37	142	41
080	206	37	194	41	183	45	170	50
090	232	42	219	46	206	51	192	56
100	258	46	244	51	229	56	214	62
110	280	51	264	56	247	61	230	68
120	301	55	284	60	265	66	246	73
140	350	63	329	68	307	75	283	82
160	399	72	377	78	354	86	329	94
180	447	80	423	87	397	96	370	105
200	495	88	469	96	441	105	412	116
220	530	94	501	103	472	113	441	124
240	564	100	534	109	503	120	470	133
260	608	107	575	117	541	129	506	142
280	651	114	616	125	580	137	542	151

R-134a	Entering Air Temperature (deg. C)							
SST =10 (C)	30		35		40		45	
UNIT 38XD	CAP. KW	POWER KW	CAP. KW	POWER KW	CAP. KW	POWER KW	CAP. KW	POWER KW
040	114	20	108	21	101	24	95	26
050	143	24	135	27	127	29	119	32
060	168	29	158	32	148	35	137	38
070	195	33	183	36	171	39	158	43
080	228	39	216	43	203	47	189	52
090	257	44	243	48	229	53	213	58
100	286	49	270	53	254	59	237	65
110	311	53	294	58	275	64	256	70
120	336	58	317	63	296	69	275	76
140	390	66	366	72	341	78	316	85
160	444	75	419	82	393	89	366	98
180	496	83	469	91	441	99	411	109
200	548	92	519	100	489	109	457	121
220	587	98	555	107	523	117	489	129
240	625	104	592	114	557	125	521	138
260	673	112	637	122	600	134	561	147
280	721	119	683	130	643	142	601	157

38AKS008-044									
UNIT 38AKS	Nominal voltage (V-PH-Hz)	VOLTAGE RANGE*		COMPRESSOR		OFM		POWER SUPPLY	
		Min	Max	RLA	LRA	Qty	FLA(ea)†	MCA	MOCP**
008	230-3-50	198	253	31.5	160	1	1.5	40.9	50
	400-3-50	342	460	15.7	80	1	1.5	21.1	25
009	230-3-50	198	253	39.7	198	1	1.5	51.1	60
	400-3-50	342	460	19.9	99	1	1.5	26.4	30
012	230-3-50	198	253	39.7	198	1	1.5	52.7	60
	400-3-50	342	460	19.9	99	1	1.5	26.3	30
013	230-3-50	198	264	32.9	128	2	3.5 (2.9)	47.5	80
	400-3-50	342	457	20.0	74	2	3.5 (2.9)	31.4	50
016	230-3-50	198	264	47.9	200	2	3.5 (2.9)	66.9	100
	400-3-50	342	457	29.3	115	2	3.5 (2.9)	43.0	70
024	346-3-50	311	380	33.3	115	2	3.5 (2.9)	50.5	80
	230-3-50	198	254	67.9	207	2	3.5 (2.9)	88.1	150
	400-3-50	342	440	34.6	173	2	3.5 (2.9)	49.3	80
028	346-3-50	311	380	44.9	155	2	4.4	64.9	100
	230-3-50	198	254	76.9	205	2	6.4	109.0	175
	400-3-50	342	440	43.6	223	2	3.0	60.5	100
034	346-3-50	311	380	53.9	176	2	4.4	76.1	125
	230-3-50	198	254	85.9	220	2	6.4	120.2	200
	400-3-50	342	440	50.0	253	2	3.0	68.5	110
044	346-3-50	311	380	79.5	240	3	4.4	112.6	175
	230-3-50	198	254	105.1	327	3	6.4	150.6	250
	400-3-50	342	440	65.4	345	3	3.0	90.8	150

40RM STANDARD MOTORS						
UNIT 40RM	V*-PH- HZ	VOLTAGE LIMITS	FAN MOTOR			
			kW (Hp)	FLA	Minimum circuit Amps	MOCP
007	230-3-50	207-253	1.79 (2.4)	5.2	6.5	15
	400-3-50	360-440	1.79 (2.4)	2.6	3.3	15
008	230-3-50	207-253	1.79 (2.4)	5.2	6.5	15
	400-3-50	360-440	1.79 (2.4)	2.6	3.3	15
012	230-3-50	207-253	2.16 (2.9)	7.5	9.4	15
	400-3-50	360-440	2.16 (2.9)	3.4	4.3	15
014	230-3-50	207-253	2.16 (2.9)	7.5	9.4	15
	400-3-50	360-440	2.16 (2.9)	3.4	4.3	15
016	230-3-50	207-253	2.16 (2.9)	7.5	9.4	15
	400-3-50	360-440	2.16 (2.9)	3.4	4.3	15
024	230-3-50	207-253	3.73 (5.0)	13.2	16.5	25
	400-3-50	360-440	3.73 (5.0)	7.6	9.5	15
028	230-3-50	207-253	5.59 (7.5)	19.8	24.8	40
	400-3-50	360-440	5.59 (7.5)	11.4	14.3	25
034	230-3-50	207-253	7.46 (10.0)	28.0	35.0	60
	400-3-50	360-440	7.46 (10.0)	16.1	20.1	30

LEGEND

FLA — Full Load Amps
HACR — Heating, Air Conditioning Refrigeration
LRA — Locked Rotor Amps
MCA — Minimum Circuit Amps per NEC Section 430-24
MOCP — Maximum Over current Protection
NEC — National Electrical Code (U.S.A Standard)
OFM — Outdoor-Fan Motor
RLA — Rated Load Amps (Compressor)

* Permissible limits of the voltage range at which unit will operate satisfactorily.
† Value in parenthesis ( ) is FLA of second fan motor.
** Fuse or HACR circuit breaker.

NOTES:

1. Control circuit is 24 v on all units and requires an external power source.
2. MCA and MOCP values are calculated in accordance with NEC (National Electric Code) (U.S.A. Standard), Article 440.
3. Motor FLA and RLA values are established in accordance with UL (Underwriters Laboratories) Standard 1995 (U.S.A. standard).
4. 38AKS028-044 Units Only:
   220-v and 346-v units are part-wind-start units; the value under compressor LRA is for the first winding energized. The 400-v units are across-the-line-start units; value shown is for all windings energized.