Product Data

40RM, 40RMQ, 40RMS Packaged Air-Handling Units 50/60 Hz

6 to 30 Nominal Tons (21 to 105 kW) Cooling

Quality Assurance

Carrier Corporation ISO 9002 #A2260

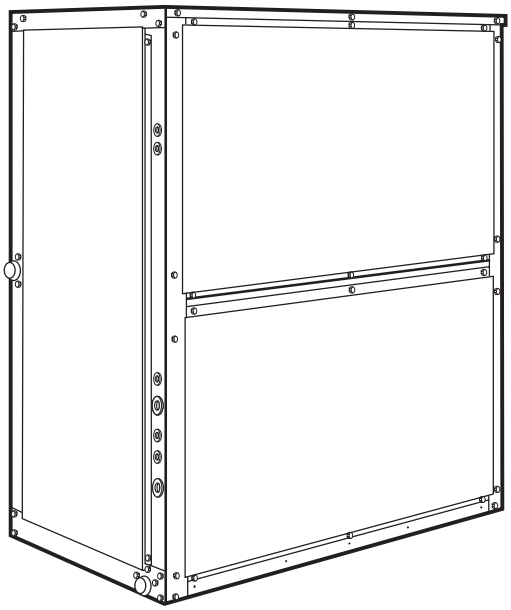
Approvals:

ISO 9002

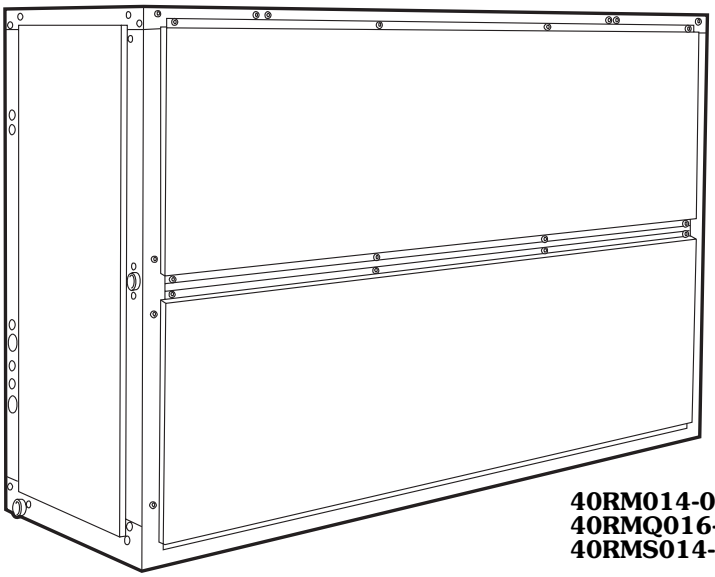
EN 29002

BS5750 PART 2

ANSI/ASQC Q92



40RM007-012,
40RMQ008,012
40RMS008-012



40RM014-034,
40RMQ016-028
40RMS014-034

Features/Benefits

- Multiposition design can be installed horizontally or vertically without modification
- Standard sloped drain pans and cleanable insulation treated with Environmental Protection Agency (EPA) registered antimicrobial agent improve indoor air quality
- High-static design meets a wider range of applications than competitive packaged air handler lines
- Economizer accessory provides ventilation air and "free" cooling
- Cooling coils with mechanically bonded fins provide peak heat transfer
- Hot water coil, steam coil, and electric heat accessories are available
- Standard factory-installed thermostatic expansion valves (TXVs) on 40RM; 40RMQ units include TXVs and check valves for heat pump duty with matching 38AQS units
- Die-formed galvanized steel casings provide durability and structural integrity. Optional paint is available
- Easy installation and maintenance; removal of one side panel allows access to serviceable components

The 40RM Series is your best choice for packaged air handlers. Model 40RM and 40RMQ units have direct-expansion coils and model 40RMS units have chilled water coils. All models offer excellent fan performance, a unique combination of indoor air quality features, easy installation, and affordable prices. Their versatility and state-of-the-art features will provide economical performance now and in the future.

Indoor air quality features

The unique combination of features in the 40RM Series air handlers ensures that clean, fresh, conditioned air is delivered to the occupied space.

Cooling coils prevent the build-up of humidity in the room, even during part-load conditions. Unit sizes of 10 tons and above feature dual-circuit face-split coils.

Two-in. (51-mm) disposable filters remove dust and airborne particles from the occupied space.

Thermal insulation contains an immobilized anti-microbial agent to inhibit the growth of bacteria and fungi. The anti-microbial agent is registered with the U.S. Environmental Protection Agency (EPA).

Pitched drain pan can be adjusted for a right- or left-hand connection to provide positive drainage and prevent standing condensate.

Accessory economizer can provide ventilation air to improve indoor air quality. When used with CO_2 sensors, the economizer admits fresh outdoor air to replace stale, recirculated indoor air.

Accessory UV-C germicidal lamps can eliminate foul odors that result from the growth of mold and fungus on evaporator coil and condensate pan surfaces.

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 multiposition design. Units can be installed in either the horizontal or vertical (upflow) configuration without modifications. All units have drain-pan connections on both sides, and pans can be pitched for right- or left-hand operation with a simple adjustment. Fan motors and contactors are pre-wired and TXVs are factory-installed on 40RM and 40RMQ models.

High efficiency, precision-balanced fans minimize air turbulence, surging, and unbalanced operation, thereby cutting operating expenses.

Economizer accessory precisely controls the blend of outdoor air and room air to achieve comfort levels. When the outside air enthalpy is suitable, outside air dampers can fully open to provide "free" cooling.

Rugged dependability

Die-formed galvanized steel panels ensure structural integrity under all operating conditions.

Mechanically bonded coil fins provide improved heat transfer.

Galvanized steel fan housings are securely mounted to a die-formed galvanized steel deck.

Rugged pillow-block bearings (014-034 sizes) 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 and 40RMQ (direct-expansion coils) and 40RMS (chilled water coil) have galvanized steel casings; inlet and outlet connections are on the same end.

Chilled water coils have $^1/_2$-in. (12.7 mm) diameter copper tubes mechanically bonded to aluminum sine-wave fins. All coils have non-ferrous headers.

Direct expansion (DX) coils are designed for use with Refrigerant 22 and have copper tubes mechanically bonded to aluminum sine-wave fins. Direct-expansion coils include matched, factory-installed thermostatic expansion valves (TXVs) with matching distributor nozzles.

Easier installation and service

The multiposition design and component layout help you to get the unit installed and running quickly. The DX coils have factory-installed TXVs with matching distributor nozzles. 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 easily accessed by removing a single side panel.

Table of contents

Model number nomenclature

40RM – 016 – – B 5 0 1 GC

40RM — Commercial Packaged Air Handler

Cooling Coil
- **-** — Direct Expansion
- **Q** — Direct Expansion for Heat Pump Duty*
- **S** — Chilled Water

Nominal Capacity — Tons (kW)
- **007** — 6 (21)
- **008** — 7-1/2 (26)
- **010** — 8-1/2 (29)
- **012** — 10 (35)
- **014** — 12-1/2 (43)
- **016** — 15 (52)
- **024** — 20 (70)
- **028** — 25 (87)
- **034** — 30 (105)

Not Used

Expansion Device
- **-** — None (40RMS)
- **B** — Thermostatic Expansion Valves (40RM, 40RMQ)
- **H** — High Capacity 4-Row Coil (40RM)

Voltage Designation (V-Ph-Hz)
- **1** — 575-3-60
- **3** — 208/230-1-60 (007-010 sizes only)
- **5** — 208/230-3-60
- **6** — 208/230/460-3-60 (all sizes 007-014; size 016 except YC and WD options)
  460-3-60 (sizes 016 with YC or WD options and all size 024-034 units)
- **8** — 230-3-50
- **9** — 400-3-50

Revision Number
- **0** — Original Model

Factory-Installed Options
- **GC** — Unpainted, Standard Motor and Standard Drive
- **HC** — Unpainted, Standard Motor and Medium-Static Drive (Not available for 028 size for 60 Hz units and 016-028 for 50 Hz units)
- **TC** — Unpainted, Alternate Motor and Medium-Static Drive (Available for 50 Hz sizes 016,024,028 and 60 Hz size 028 only)
- **YC** — Unpainted, Alternate Motor and High-Static Drive†
- **ED** — Painted, Standard Motor and Standard Drive
- **FD** — Painted, Standard Motor and Medium-Static Drive (Not available for 028 size for 60 Hz units and 016-028 for 50 Hz units)
- **RD** — Painted, Alternate Motor and Medium-Static Drive (Available for 50 Hz sizes 016,024,028 and 60 Hz size 028 only)
- **WD** — Painted, Alternate Motor and High-Static Drive†

Packaging
- **1** — Standard Domestic
- **3** — Export

*For 40RMQ heat pump system performance information, refer to 38AQS Product Data catalog.
†YC and WD option codes for all 034 size units and 008, 010 units with 208/230-1-60 power designate standard motor and high-static drive.

NOTE: See the following table for the sizes available for each unit.

UNIT SIZE AVAILABILITY

UNIT	007	008	010	012	014	016	024	028	034
40RM	X	X		X	X	X	X	X	X
40RMQ		X		X		X	X	X	
40RMS		X	X	X	X	X	X	X	X

Physical data

40RM — ENGLISH

UNIT 40RM	007	008	012	014	016	024	028	034
NOMINAL CAPACITY (Tons)	6	7 1/2	10	12 1/2	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	1030/1062
Plenum	175	175	175	225	225	225	325	325
Economizer	185	185	185	340	340	340	340	340
Hot Water Coil	195	195	195	285	285	285	345	345
Steam Coil	215	215	215	340	340	340	405	405
FANS								
Qty...Diam. (in.)	1...15	1...15	1...15	2...15	2...15	2...15	2...18	2...18
Nominal Airflow (cfm)	2400	3000	4000	5000	6000	8000	10,000	12,000
Airflow Range (cfm)	1800-3000	2250-3750	3000-5000	3750-6250	4500-7500	6000-10,000	7500-12,500	9000-15,000
Nominal Motor Hp (Standard Motor)*								
208/230-1-60	1.3	2.4	—	—	—	—	—	—
208/230-3-60 and 460-3-60	2.4	2.4	2.4	2.9	3.7	5.0	7.5	10.0
575-3-60	1.0	2.0	2.0	3.0	3.0	5.0	7.5	10.0
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)								
208/230-1-60	1725	1725	—	—	—	—	—	—
208/230-3-60 and 460-3-60	1725	1725	1725	1725	1725	1745	1745	1745
575-3-60	1725	1725	1725	1725	1725	1745	1755	1755
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	Enhanced Copper Tubes, Aluminum Sine-Wave Fins							
Max Working Pressure (psig)	435							
Face Area (sq ft)	6.67	8.33	10.01	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 (3 Row/4 Row)	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 (psig at 400 F)	175							
Total Face Area (sq ft)	6.67	6.67	6.67	13.33	13.33	13.33	15.0	15.0
Rows...Fins/in.	1...9	1...9	1...9	1...10	1...10	1...10	1...10	1...10
HOT WATER COIL								
Max Working Pressure (psig)	150							
Total Face Area (sq ft)	6.67	6.67	6.67	13.33	13.33	13.33	15.0	15.0
Rows...Fins/in.	2...8.5	2...8.5	2...8.5	2...8.5	2...8.5	2...8.5	2...12.5	2...12.5
Water Volume								
(gal)	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 1/8	1...1 1/8	2...1 1/8	2...1 1/8	2...1 1/8	2...1 1/8	2...1 3/8	2...1 3/8
DX Coil — Liquid Refrigerant (ODF)	1...5/8					2...5/8		
Steam Coil, In (MPT)	1...2 1/2					1...2 1/2		
Steam Coil, Out (MPT)	1...1 1/2					1...1 1/2		
Hot Water Coil, In (MPT)	1...1 1/2		1...1 1/2			1...2		
Hot Water Coil, Out (MPT)	1...1 1/2		1...1 1/2			1...2		
Condensate (PVC)	1...1 1/4 ODM/1 IDF							
FILTERS	Throwaway — Factory Supplied							
Quantity...Size (in.)	4...16 x 24 x 2			4...16 x 20 x 2 4...16 x 24 x 2			4...20 x 24 x 2 4...20 x 25 x 2	
Access Location	Right or Left Side							

LEGEND

DX — Direct Expansion
TXV — Thermostatic Expansion Valve

*Refer to alternate Fan Motor Data table, pages 66 and 67, for alternate motor data.
†Units are shipped without refrigerant charge.

40RM — SI

UNIT 40RM	007	008	012	014	016	024	028	034
NOMINAL CAPACITY (kW)	21	26	35	43	52	70	87	105
OPERATING WEIGHT (kg)								
Base Unit with TXV (3 Row/4 Row)	173/181	175/183	184/193	304/315	311/323	313/331	463/470	467/482
Plenum	80	80	80	102	102	102	148	148
Economizer	84	84	84	155	155	155	205	205
Hot Water Coil	89	89	89	130	130	130	157	157
Steam Coil	98	98	98	155	155	155	184	184
FANS								
Qty...Diam. (mm)	1...381	1...381	1...381	2...381	2...381	2...381	2...457	2...457
Nominal Airflow (L/s)	1133	1604	1888	2360	2831	3775	4719	5663
Airflow Range (L/s)	850-1416	1203-2006	1416-2360	1770-2949	2124-3539	2831-4719	3539-5899	4247-7079
Nominal Motor kW (Standard Motor)*								
208/230-1-60	0.97	1.79	—	—	—	—	—	—
208/230-3-60 and 460-3-60	1.79	1.79	1.79	2.16	2.76	3.73	5.59	7.46
575-3-60	0.75	1.49	1.49	2.24	2.24	3.73	5.59	7.46
230-3-50, 400-3-50	1.79	1.79	2.16	2.16	2.16	3.73	5.59	7.46
Motor Speed (r/s)								
208/230-1-60	28.8	28.8	—	—	—	—	—	—
208/230-3-60 and 460-3-60	28.8	28.8	28.8	28.8	28.8	29.1	29.1	29.1
575-3-60	28.8	28.8	28.8	28.8	28.8	29.1	29.3	29.3
230-3-50, 400-3-50	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
REFRIGERANT	R-22							
Operating charge (kg) (approx per circuit)†	1.36	1.36	0.68/0.68	0.90/0.90	1.13/1.13	1.59/1.59	2.04/2.04	2.27/2.27
DIRECT-EXPANSION COIL	Enhanced Copper Tubes, Aluminum Sine-Wave Fins							
Max Working Pressure (kPag)	2999							
Face Area (sq m)	0.62	0.77	0.93	1.23	1.64	1.85	2.30	2.77
No. of Splits	1	1	2	2	2	2	2	2
No. of Circuits per Split (3 Row/4 Row)	12/12	15/15	9/9	9/12	12/16	13/18	15/20	18/24
Split Type...Percentage	—	—	Face...50/50					
Fins/m	591	591	670	591	591	670	591	591
STEAM COIL								
Max Working Pressure (kPag at 204.4 C)	1207							
Total Face Area (sq m)	0.62	0.62	0.62	1.24	1.24	1.24	1.39	1.39
Rows...Fins/m	1...355	1...355	1...355	1...394	1...394	1...394	1...394	1...394
HOT WATER COIL								
Max Working Pressure (kPag)	1034							
Total Face Area (sq m)	0.62	0.62	0.62	1.24	1.24	1.24	1.39	1.39
Rows...Fins/m	2...335	2...335	2...335	2...335	2...335	2...335	2...493	2...493
Water Volume								
(L)		31.4			52.6		54.1	
(m^3)		0.031			0.052		0.054	
PIPING CONNECTIONS**								
Quantity...Size (in.)								
DX Coil — Suction (ODF)	1...1 1/8	1...1 1/8	2...1 1/8	2...1 1/8	2...1 1/8	2...1 1/8	2...1 3/8	2...1 3/8
DX Coil — Liquid Refrigerant (ODF)	1...5/8			2...5/8				
Steam Coil, In (MPT)	1...2 1/2			1...2 1/2				
Steam Coil, Out (MPT)	1...1 1/2			1...1 1/2				
Hot Water Coil, In (MPT)	1...1 1/2		1...1 1/2			1...2		
Hot Water Coil, Out (MPT)	1...1 1/2		1...1 1/2			1...2		
Condensate (PVC)	1...1 1/4 ODM/1 IDF							
FILTERS	Throwaway — Factory Supplied							
Quantity...Size	4...406 x 610 x 51			4...406 x 508 x 51 4...406 x 610 x 51			4...508 x 610 x 51 4...508 x 635 x51	
Access Location	Right or Left Side							

LEGEND

DX — Direct Expansion
TXV — Thermostatic Expansion Valve

*Refer to Alternate Fan Motor Data table, pages 66 and 67, for alternate motor data.
†Units are shipped without refrigerant charge.
**All piping sizes are OD inches; equivalent sizes in millimeters follow:

in.	mm
5/8	15.9
1	25.4
1 1/8	28.6
1 1/4	31.8
1 3/8	34.9
1 1/2	38.7
2	50.8
2 1/8	54.0
2 1/2	63.5

Physical data (cont)

40RMQ — ENGLISH

UNIT 40RMQ	008	012	016	024	028
NOMINAL CAPACITY (Tons)	7 1/2	10	15	20	25
OPERATING WEIGHT (lb)					
Base Unit with TXV	385	427	713	720	1050
Plenum	175	175	225	140	180
Economizer	185	185	340	340	450
Hot Water Coil	195	195	285	285	345
Steam Coil	215	215	340	340	405
FANS					
Qty...Diam. (in.)	1...15	1...15	2...15	2...15	2...18
Nominal Airflow (cfm)	3000	4000	6000	8000	10,000
Airflow Range (cfm)	2250-3750	3000-5000	4500-7500	6000-10,000	7500-12,500
Nominal Motor Hp (Standard Motor)*					
208/230-1-60	2.4	—	—	—	—
208/230-3-60 and 460-3-60	2.4	2.4	3.7	5.0	7.5
575-3-60	2.0	2.0	3.0	5.0	7.5
230-3-50, 400-3-50	2.4	2.9	2.9	5.0	7.5
Motor Speed (rpm)					
208/230-1-60	1725	—	—	—	—
208/230-3-60 and 460-3-60	1725	1725	1725	1745	1745
575-3-60	1725	1725	1725	1745	1755
230-3-50, 400-3-50			1425		
REFRIGERANT			R-22		
Operating charge (lb) (approx per circuit)†	3.0	2.0/2.0	3.0/3.0	3.5/3.5	4.5/4.5
DIRECT-EXPANSION COIL			Enhanced Copper Tubes, Aluminum Sine-Wave Fins		
Max Working Pressure (psig)			435		
Face Area (sq ft)	8.33	10.01	17.67	19.88	24.86
No. of Splits	1	2	2	2	2
Split Type...Percentage	—	Face...50/50		Face...50/50	Face...60/40
No. of Circuits per Split	15	9	16	18	20
Rows...Fins/in.	3...15	4...15	4...15	4...15	4...15
STEAM COIL					
Max Working Pressure (psig at 400 F)		175		150	150
Total Face Area (sq ft)	6.67	6.67	13.33	13.33	15.0
Rows...Fins/in.	1...9	1...9	1...10	1...10	1...10
HOT WATER COIL					
Max Working Pressure (psig)			150		
Total Face Area (sq ft)	6.67	6.67	13.33	13.33	15.0
Rows...Fins/in.	2...8.5	2...8.5	2...8.5	2...8.5	2...12.5
Water Volume					
(gal)	8.3		13.9	13.9	
(ft^3)	1.1		1.85	1.85	
PIPING CONNECTIONS					
Quantity...Size (in.)					
DX Coil — Suction (ODF)	1...1 1/8	2...1 1/8	2...1 1/8	2...1 1/8	2...1 3/8
DX Coil — Liquid Refrigerant (ODF)	1...5/8	2...5/8	2...5/8	2...5/8	2...5/8
Steam Coil, In (MPT)	1...2 1/2		1...2 1/2	1...2 1/2	1...2 1/2
Steam Coil, Out (MPT)	1...1 1/2		1...1 1/2	1...1 1/2	1...1 1/2
Hot Water Coil, In (MPT)	1...1 1/2	1...1 1/2	1...2	1...2	1...2
Hot Water Coil, Out (MPT)	1...1 1/2	1...1 1/2	1...2	1...2	1...2
Condensate (PVC)			1...1 1/4 ODM/1 IDF		
FILTERS			Throwaway — Factory Supplied		
Quantity...Size (in.)	4...16 x 24 x 2		4...16 x 20 x 2 4...16 x 24 x 2	4...16 x 20 x 2 4...16 x 24 x 2	4...20 x 24 x 2 4...20 x 25 x 2
Access Location			Right or Left Side		

LEGEND

DX — Direct Expansion
TXV — Thermostatic Expansion Valve

*Refer to Alternate Fan Motor Data table, pages 66 and 67, for alternate motor data.
†Units are shipped without refrigerant charge.

40RMQ — SI

UNIT 40RMQ	008	012	016	024	028
NOMINAL CAPACITY (kW)	26	35	52	70	87
OPERATING WEIGHT (kg)					
Base Unit with TXV	175	194	323	326	477
Plenum	80	80	102	44	44
Economizer	84	84	155	155	205
Hot Water Coil	89	89	130	130	157
Steam Coil	98	98	155	155	184
FANS					
Qty...Diam. (mm)	1...381	1...381	2...381	2...381	2...457
Nominal Airflow (L/s)	1604	1888	2831	3775	4719
Airflow Range (L/s)	1203-2006	1416-2360	2124-3539	2831-4719	3539-5899
Nominal Motor kW (Standard Motor)*					
208/230-1-60	1.79	—	—	—	—
208/230-3-60 and 460-3-60	1.79	1.79	2.76	3.73	5.60
575-3-60	1.49	1.49	2.24	3.73	5.60
230-3-50, 400-3-50	1.79	2.16	2.16	3.73	5.60
Motor Speed (r/s)					
208/230-1-60	28.8	—	—	—	—
208/230-3-60 and 460-3-60	28.8	28.8	28.8	29.1	29.1
575-3-60	28.8	28.8	28.8	29.1	29.3
230-3-50, 400-3-50	23.8	23.8	23.8	23.8	23.8
REFRIGERANT	R-22				
Operating charge (kg) (approx per circuit)†	1.36	0.91/0.91	1.36/1.36	1.59/1.59	2.04/2.04
DIRECT-EXPANSION COIL	Enhanced Copper Tubes, Aluminum Sine-Wave Fins				
Max Working Pressure (kPag)	2999				
Face Area (sq m)	0.77	0.93	1.64	1.85	2.30
No. of Splits	1	2	2	2	2
No. of Circuits per Split	15	9	16	18	20
Split Type...Percentage	—	Face...50/50		Face...60/40	
Rows...Fins/m	3...591	4...591	4...591	4...591	4...591
STEAM COIL					
Max Working Pressure (kPag at 204.4 C)	1207				
Total Face Area (sq m)	0.62	0.62	1.24	1.24	1.39
Rows...Fins/m	1...355	1...355	1...394	1...394	1...394
HOT WATER COIL					
Max Working Pressure (kPag)	1034				
Total Face Area (sq m)	0.62	0.62	1.24	1.24	1.39
Rows...Fins/m	2...335	2...335	2...335	2...335	2...493
Water Volume					
(L)	31.4		52.6	52.6	
(m^3)	0.031		0.052	0.052	
PIPING CONNECTIONS**					
Quantity...Size (in.)					
DX Coil — Suction (ODF)	1...1 1/8	2...1 1/8	2...1 1/8	2...1 1/8	2...1 3/8
DX Coil — Liquid Refrigerant (ODF)	1...5/8	2...5/8	2...5/8	2...5/8	2...5/8
Steam Coil, In (MPT)	1...2 1/2		1...2 1/2	1...2 1/2	1...2 1/2
Steam Coil, Out (MPT)	1...1 1/2		1...1 1/2	1...1 1/2	1...1 1/2
Hot Water Coil, In (MPT)	1...1 1/2	1...1 1/2	1...2	1...2	1...2
Hot Water Coil, Out (MPT)	1...1 1/2	1...1 1/2	1...2	1...2	1...2
Condensate (PVC)	1...1 1/4 ODM/1 IDF				
FILTERS	Throwaway — Factory Supplied				
Quantity...Size	4...406 x 610 x 51		4...406 x 508 x 51 4...406 x 610 x 51	4...406 x 610 x 51 4...406 x 508 x 51	4...406 x 610 x 51 4...508 x 635 x 51
Access Location	Right or Left Side				

LEGEND

DX — Direct Expansion
TXV — Thermostatic Expansion Valve

*Refer to Alternate Fan Motor Data table, pages 66 and 67, for alternate motor data.
†Units are shipped without refrigerant charge.
**All piping sizes are OD inches; equivalent sizes in millimeters follow:

in.	mm
5/8	15.9
1	25.4
1 1/8	28.6
1 1/4	31.8
1 3/8	34.9
1 1/2	38.7
2	50.8
2 1/8	54.0
2 1/2	63.5

Physical data (cont)

40RMS — ENGLISH

UNIT 40RMS	008	010	012	014	016	024	028	034
NOMINAL CAPACITY (Tons)	7 1/2	8 1/2	10	12 1/2	15	20	25	30
OPERATING WEIGHT (lb)								
Base Unit	390	391	391	661	677	683	1035	1042
Plenum	175	175	175	225	225	225	325	325
Economizer	185	185	185	340	340	340	450	450
Hot Water Coil	195	195	195	285	285	285	345	345
Steam Coil	215	215	215	340	340	340	405	405
FANS								
Qty...Diam. (in.)	1...15	1...15	1...15	2...15	2...15	2...15	2...18	2...18
Nominal Airflow (cfm)	3000	3400	4000	5000	6000	8000	10,000	12,000
Airflow Range (cfm)	2250-3750	2250-4250	3000-5000	3750-6250	4500-7500	6000-10,000	7500-12,500	9000-15,000
Nominal Motor Hp								
(Standard Motor)*								
208/230-1-60	2.4	2.4	—	—	—	—	—	—
208/230-3-60 and 460-3-60	2.4	2.4	2.4	2.9	3.7	5.0	7.5	10.0
575-3-60	2.0	2.0	2.0	3.0	3.0	5.0	7.5	10.0
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)								
208/230-1-60	1725	1725	—	—	—	—	—	—
208/230-3-60 and 460-3-60	1725	1725	1725	1725	1725	1745	1745	1745
575-3-60	1725	1725	1725	1725	1725	1745	1755	1755
230-3-50, 400-3-50	1425	1425	1425	1425	1425	1425	1425	1425
CHILLED WATER COIL	Enhanced Copper Tubes, Aluminum Sine-Wave Fins							
Max Working Pressure (psig)	435							
Face Area (sq ft) — Upper	8.3	9.0	9.8	8.3	8.3	11.0	12.4	15.5
Face Area (sq ft) — Lower	—	—	—	5.5	8.3	8.3	12.4	12.4
Rows...Fins/in.	3...15							
Water Volume								
(gal)	3.0	3.3	3.5	4.7	5.6	6.4	8.9	9.9
(ft³)	0.40	0.47	0.46	0.63	0.75	0.85	1.19	1.32
STEAM COIL								
Max Working Pressure								
(psig at 400 F)	175							
Total Face Area (sq ft)	6.67	6.67	6.67	13.33	13.33	13.33	15.0	15.0
Rows...Fins/in.	1...9	1...9	1...9	1...10	1...10	1...10	1...10	1...10
HOT WATER COIL								
Max Working Pressure (in. wg)	150							
Total Face Area (sq ft)	6.67	6.67	6.67	13.33	13.33	13.33	15.0	15.0
Rows...Fins/in.	2...8.5	2...8.5	2...8.5	2...8.5	2...8.5	2...8.5	2...12.5	2...12.5
Water Volume								
(gal)	8.3			13.9			14.3	
(ft³)	1.1			1.85			1.90	
PIPING CONNECTIONS								
Quantity...Size (in.)								
Chilled Water — In	1...1 3/8 ODF	1...1 3/8 ODF	1...1 3/8 ODF	2...1 3/8 ODM	2...1 3/8 ODM	2...1 3/8 ODM	2...2 1/8 ODM	2...2 1/8 ODM
Chilled Water — Out	1...1 3/8 ODF	1...1 3/8 ODF	1...1 3/8 ODF	2...1 3/8 ODM	2...1 3/8 ODM	2...1 3/8 ODM	2...2 1/8 ODM	2...2 1/8 ODM
Steam Coil, In (MPT)	1...2 1/2		1...2 1/2			1...2 1/2		
Steam Coil, Out (MPT)	1...1 1/2		1...1 1/2			1...1 1/2		
Hot Water Coil, In (MPT)	1...1 1/2		1...1 1/2			1...2		
Hot Water Coil, Out (MPT)	1...1 1/2		1...1 1/2			1...2		
Condensate (PVC)	1...1 1/4 ODM/1 IDF							
FILTERS	Throwaway — Factory Supplied							
Quantity...Size (in.)	4...16 x 24 x 2			4...16 x 20 x 2 4...16 x 24 x 2			4...20 x 24 x 2 4...20 x 25 x 2	
Access Location	Right or Left Side							

*Refer to the Alternate Fan Motor Data table, pages 66 and 67, for alternate motor data.

40RMS — SI

UNIT 40RMS	008	010	012	014	016	024	028	034
NOMINAL CAPACITY (kW)	26	29	35	43	52	70	87	105
OPERATING WEIGHT (kg)								
Base Unit	177	177	177	300	307	310	469	473
Plenum	80	80	80	102	102	102	148	148
Economizer	84	84	84	155	155	130	205	205
Hot Water Coil	89	89	89	130	130	130	157	157
Steam Coil	98	98	98	155	155	155	184	184
FANS								
Qty...Diam. (mm)	1...381	1...381	1...381	2...381	2...381	2...381	2...457	2...457
Nominal Airflow (L/s)	1416	1605	1888	2360	2831	3775	4719	5663
Airflow Range (L/s)	1062-1770	1204-2006	1416-2360	1770-2949	2124-3539	2831-4719	3539-5899	4247-7079
Nominal Motor kW (Standard Motor)*								
208/230-1-60	1.79	1.79	—	—	—	—	—	—
208/230-3-60,460-3-60	1.79	1.79	1.79	2.16	2.76	3.73	5.59	7.46
575-3-60	1.49	1.49	1.49	2.24	2.24	3.73	5.59	7.46
230-3-50, 400-3-50	1.79	1.79	2.16	2.16	2.16	3.73	5.59	7.46
Motor Speed (r/s)								
208/230-1-60	28.8	28.8	—	—	—	—	—	—
208/230-3-60, 460-3-60	28.8	28.8	28.8	28.8	28.8	29.1	29.1	29.1
575-3-60	28.8	28.8	28.8	28.8	28.8	29.1	29.3	29.3
230-3-50, 400-3-50	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
CHILLED WATER COIL								
Max Working Pressure (kPag)	2999							
Face Area (sq m) — Upper	0.77	0.84	0.91	0.77	0.77	1.02	1.15	1.44
Face Area (sq m) — Lower	—	—	—	0.51	0.77	0.77	1.15	1.15
Rows...Fins/m	3...591	3...591	3...591	3...591	3...591	3...591	3...591	3...591
Water Volume								
(L)	11.4	12.5	13.2	17.8	21.2	24.2	33.7	37.5
(M^3)	0.011	0.013	0.013	0.018	0.021	0.024	0.032	0.037
STEAM COIL								
Max Working Pressure (kPag at 204.4 C)	1207							
Total Face Area (sq m)	0.62	0.62	0.62	1.24	1.24	1.24	1.39	1.39
Rows...Fins/m	1...355	1...355	1...355	1...355	1...394	1...394	1...394	1...394
HOT WATER COIL								
Max Working Pressure (kPag)	1034							
Total Face Area (sq m)	0.62	0.62	0.62	1.24	1.24	1.24	1.39	1.39
Rows...Fins/m	2...335	2...335	2...335	2...335	2...335	2...335	2...493	2...493
Water Volume								
(L)	31.4			52.6			54.1	
(m^3)	0.031			0.052			0.054	
PIPING CONNECTIONS†								
Quantity...Size (in.)								
Chilled Water — In	1...1 3/8 ODF	1...1 3/8 ODF	2...1 3/8 ODF	2...1 3/8 ODM	2...1 3/8 ODM	2...1 3/8 ODM	2...2 1/8 ODM	2...2 1/8 ODM
Chilled Water — Out	1...1 3/8 ODF	1...1 3/8 ODF	2...1 3/8 ODF	2...1 3/8 ODM	2...1 3/8 ODM	2...1 3/8 ODM	2...2 1/8 ODM	2...2 1/8 ODM
Steam Coil, In (MPT)	1...2 1/2		1...2 1/2			1...2 1/2		
Steam Coil, Out (MPT)	1...1 1/2		1...1 1/2			1...1 1/2		
Hot Water Coil, In (MPT)	1...1 1/2		1...1 1/2			1...2		
Hot Water Coil, Out (MPT)	1...1 1/2		1...1 1/2			1...2		
Condensate (PVC)	1...1 1/4 ODM/1 IDF							
FILTERS	Throwaway — Factory Supplied							
Quantity...Size (mm)	4...406 x 610 x 51			4...406 x 508 x 51 4...406 x 610 x 51			4...508 x 610 x 51 4...508 x 635 x 51	
Access Location	Right or Left Side							

*Refer to Alternate Fan Motor Data table, pages 66 and 67, for alternate motor data.
†All piping sizes are OD inches; equivalent sizes in millimeters follow:

in.	mm
5/8	15.9
1	25.4
1 1/8	28.6
1 1/4	31.8
1 3/8	34.9
1 1/2	38.7
2	50.8
2 1/8	54.0
2 1/2	63.5

Options and accessories

Factory-installed options

Alternate fan motors and drives are available to provide the widest possible range of performance.

High capacity 4-row coils are available to provide increased latent and sensible capacities (40RM only).

Prepainted steel units are available from the factory for applications that require painted units. Units are painted with American Sterling Gray color.

Field-installed accessories

Two-row hot water coils have copper tubes mechanically bonded to aluminum plate fins and non-ferrous headers.

One-row steam coil has copper tubes and aluminum fins. The Inner Distributing Tube (IDT) design provides uniform temperatures across the coil face. The steam coil has a broad operating pressure range; up to 175 psig (1207 kPag) at 400 F (204.4 C) and up to 300 psig (2069 kPag) at 300 F (148.9 C). The IDT steam coils are especially suited to applications where sub-freezing air enters the unit.

Electric resistance heat coils have an open-wire design and are mounted in a rigid frame. Safety cutouts for high temperature conditions are standard. Terminal block for single-point power connection is included.

Economizer (enthalpy controlled) provides ventilation air and "free" cooling if outside ambient temperature and humidity are suitable. Can also be used with CO_2 sensors to help meet indoor air quality requirements.

Discharge plenum directs the air discharge directly into the occupied space; integral horizontal and vertical louvers enable redirection of airflow. Accessory is available unpainted or painted. Field assembly required.

Return-air grille provides a protective barrier over the return-air opening and gives a finished appearance to units installed in the occupied space. Accessory is available unpainted or painted.

Subbase provides a stable, raised platform and room for condensate drain trap connection for vertical floor-mounted units. Accessory is available unpainted or painted.

Overhead suspension package includes necessary brackets to support units in horizontal ceiling installations.

CO_2 sensors can be used in conjunction with the economizer accessory to help meet indoor air quality requirements. The sensor signals the economizer to open when the CO_2 level in the space exceeds the set point. A Carrier Comfort System programmable thermostat can be used to override the sensor if the outside air temperature is too high or too low.

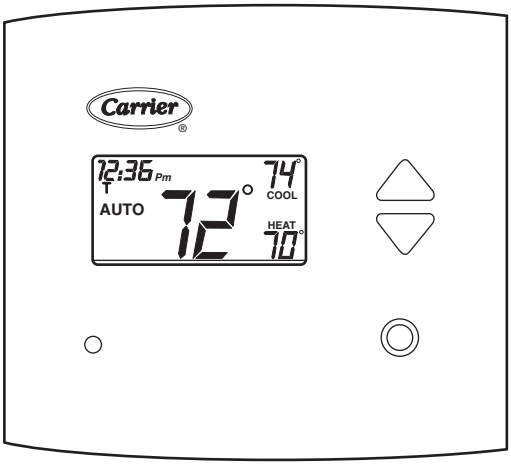
Carrier's line of thermostats provide both programmable and non-programmable capability with the new **Debonair®** line of commercial programmable thermostats, the TEMP System controls offer communication capability with staged heating and cooling, the **Commercial Electronic** thermostats provide 7-day programmable capability for economical applications, while the **Non-Programmable** thermostats offer a multitude of staged heating and cooling subbase options.

Condensate drain trap includes an overflow shutoff switch that can be wired to turn off the unit if the trap becomes plugged. Kit also includes a wire harness that can be connected to an alarm if desired. The transparent trap is designed for easy service and maintenance.

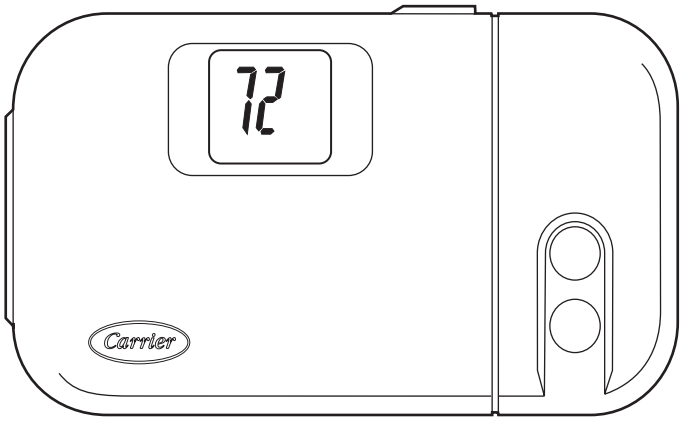
UV-C germicidal lamps kill mold and fungus, which may grow on evaporator coil and condensate pan surfaces. The use of UV-C germicidal lamps eliminates the foul odors that result from this growth of mold and fungus. It also provides a self-cleaning function for the evaporator coil and drain pan.

CARRIER THERMOSTATS

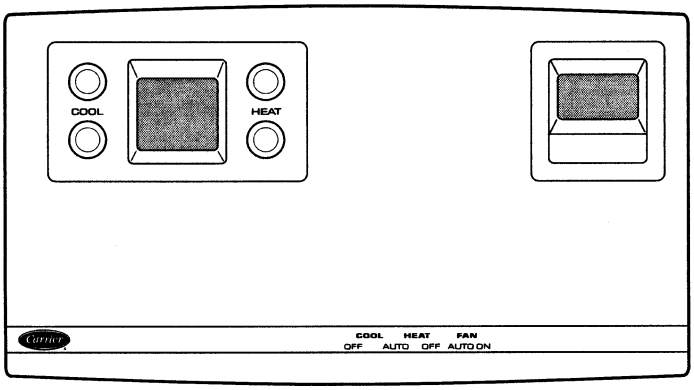
DEBONAIR® COMMERCIAL PROGRAMMABLE THERMOSTAT



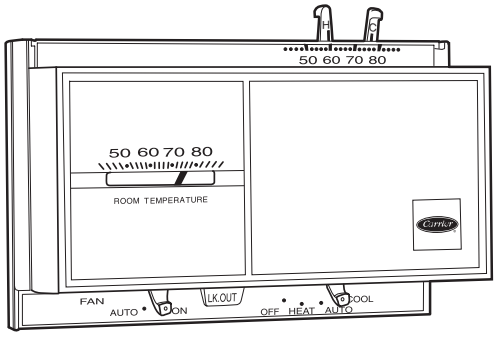
COMMERCIAL ELECTRONIC THERMOSTAT



TEMP SYSTEM THERMOSTAT

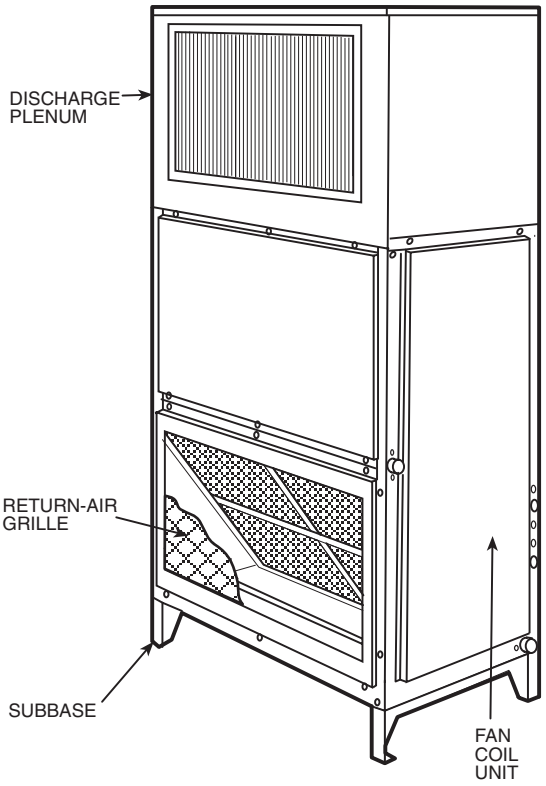


NON-PROGRAMMABLE THERMOSTAT

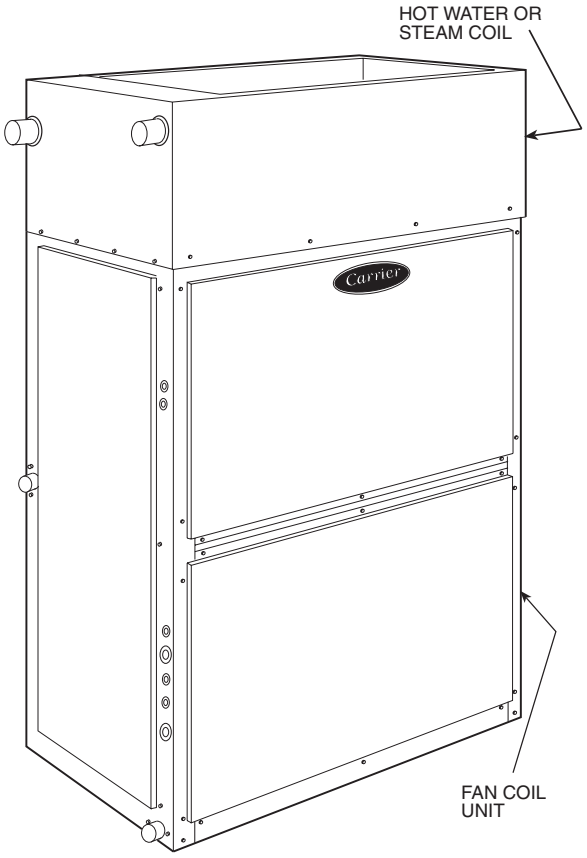


Options and accessories (cont)

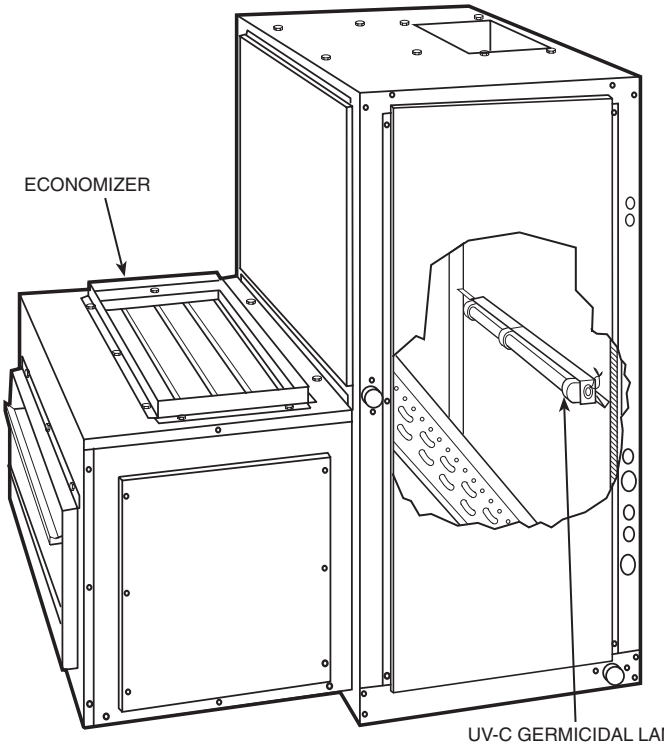
40RM WITH DISCHARGE PLENUM, RETURN-AIR GRILLE AND SUBBASE



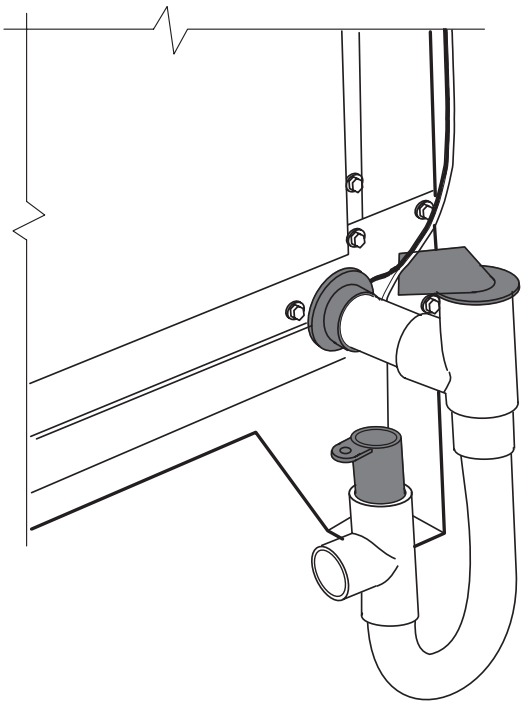
40RM WITH HOT WATER OR STEAM COIL



40RM WITH ECONOMIZER AND UV-C GERMICIDAL LAMPS



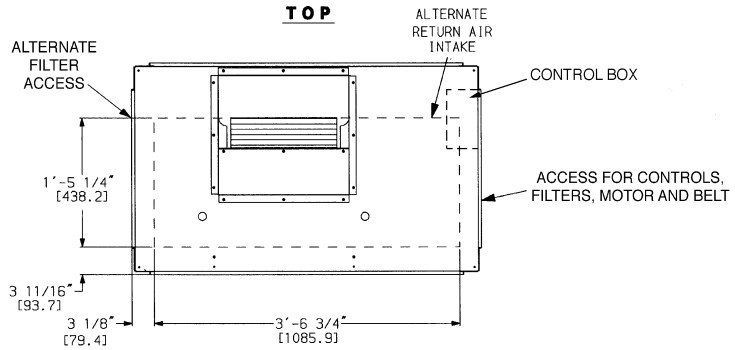
40RM WITH CONDENSATE TRAP

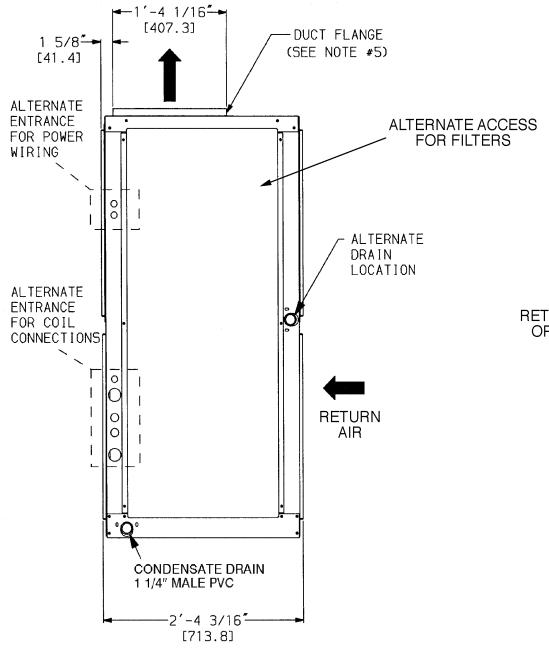


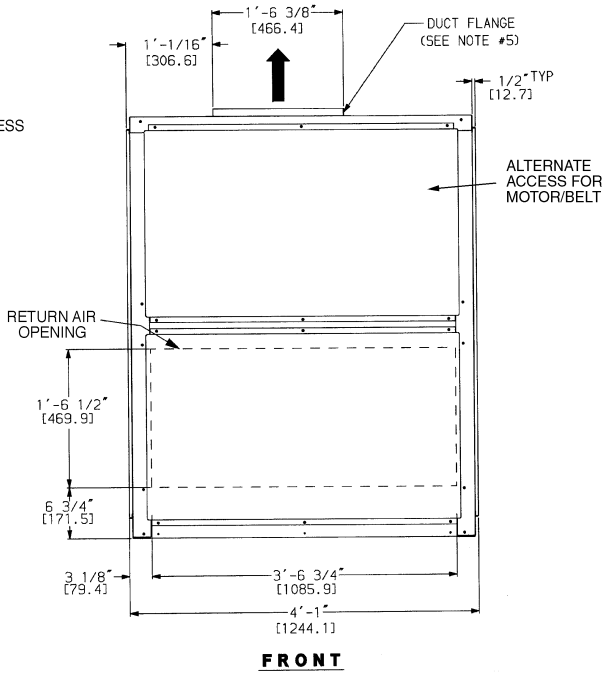
Dimensions

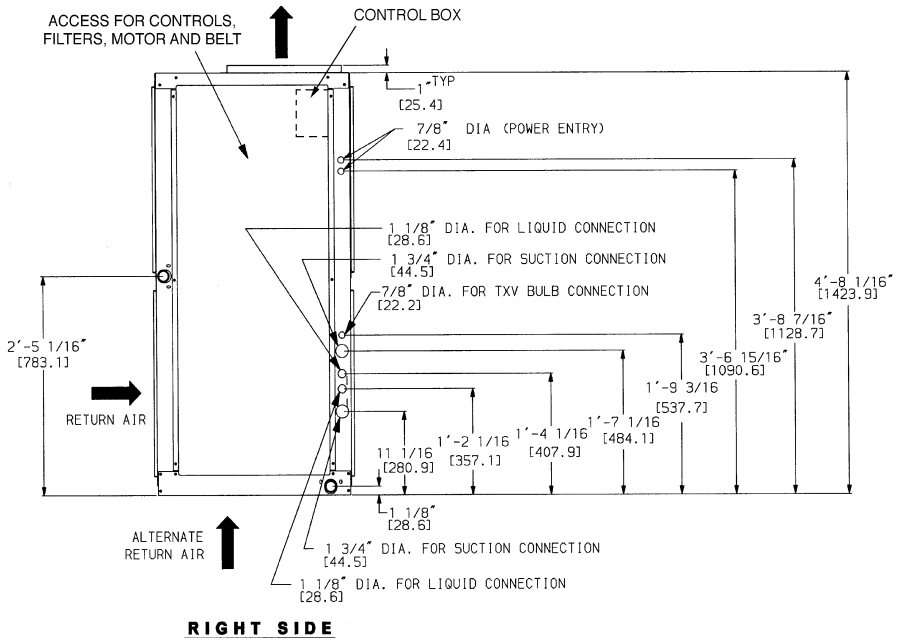
40RM007-012
40RMQ008-012
40RMS008-012

UNIT	UNIT WEIGHT lb (kg)
40RM007	381 (173)
40RM008	385 (175)
40RM012	405 (184)
40RM007 4 ROW	399 (181)
40RM008 4 ROW	404 (184)
40RM012 4 ROW	425 (193)
40RMQ008	385 (175)
40RMQ012	427 (194)
40RMS008	390 (177)
40RMS010	391 (177)
40RMS012	391 (177)







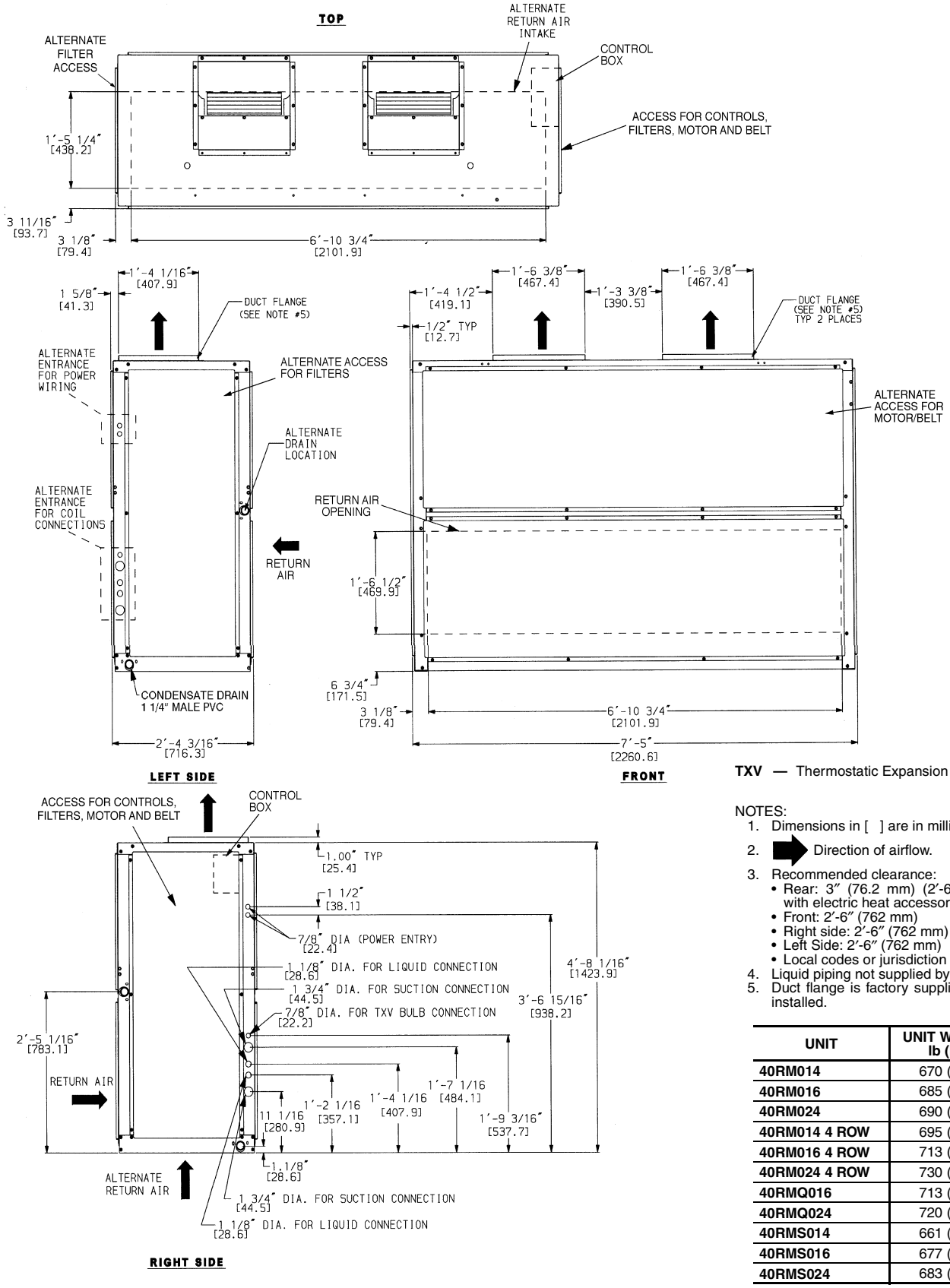


TXV — Thermostatic Expansion Valve

NOTES:
1. Dimensions in [ ] are in millimeters.
2. ➡ Direction of airflow.
3. Recommended clearance:
   - Rear: 3″ (76.2 mm) (2′-6″ [762 mm] with electric heat accessory)
   - Front: 2′-6″ (762 mm)
   - Right side: 2′-6″ (762 mm)
   - Left Side: 2′-6″ (762 mm)
   - Local codes or jurisdiction may prevail.
4. Liquid piping not supplied by Carrier.
5. Duct flange is factory supplied and field installed.

Dimensions (cont)

40RM014-024
40RMQ016,024
40RMS014-024

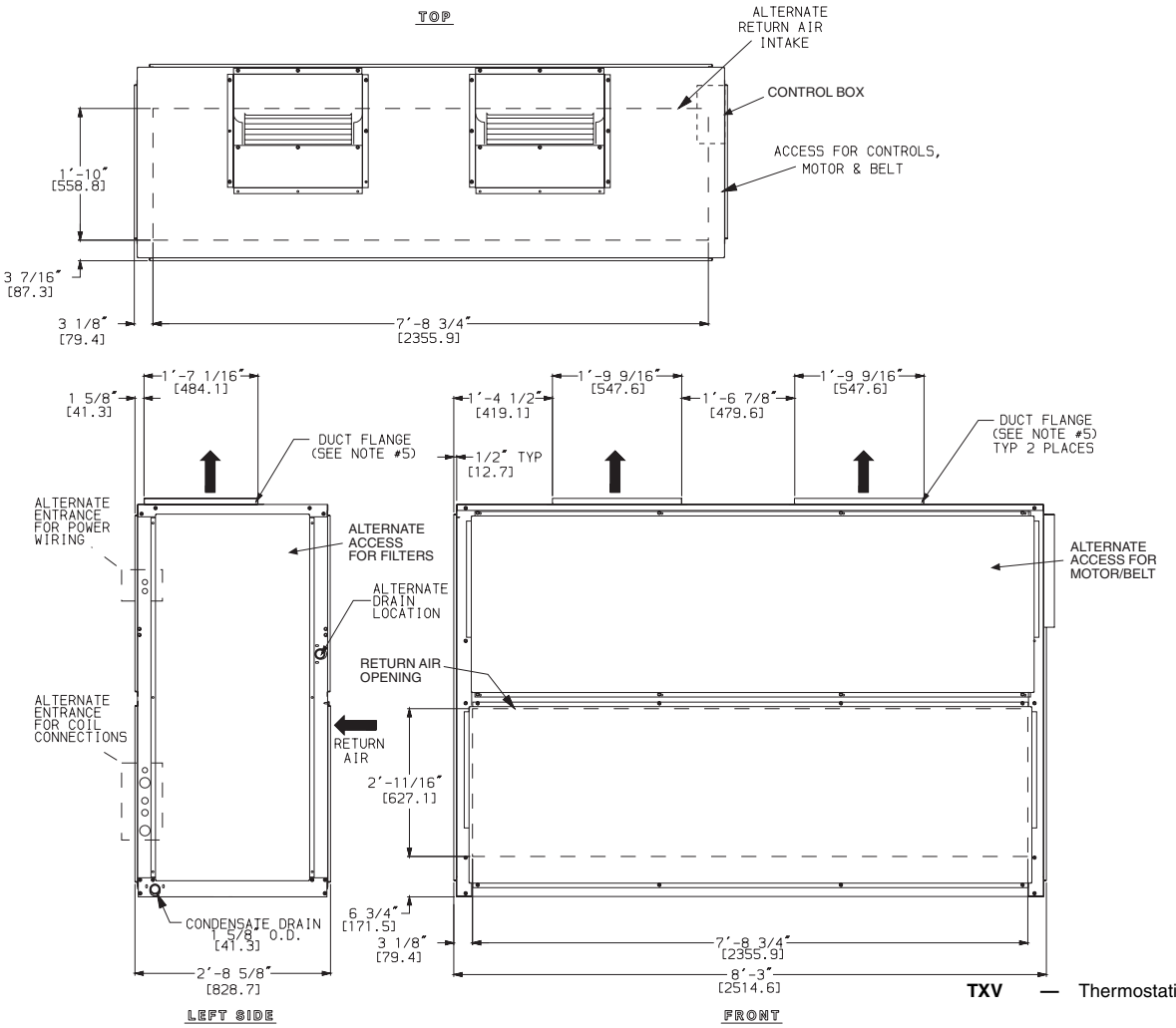


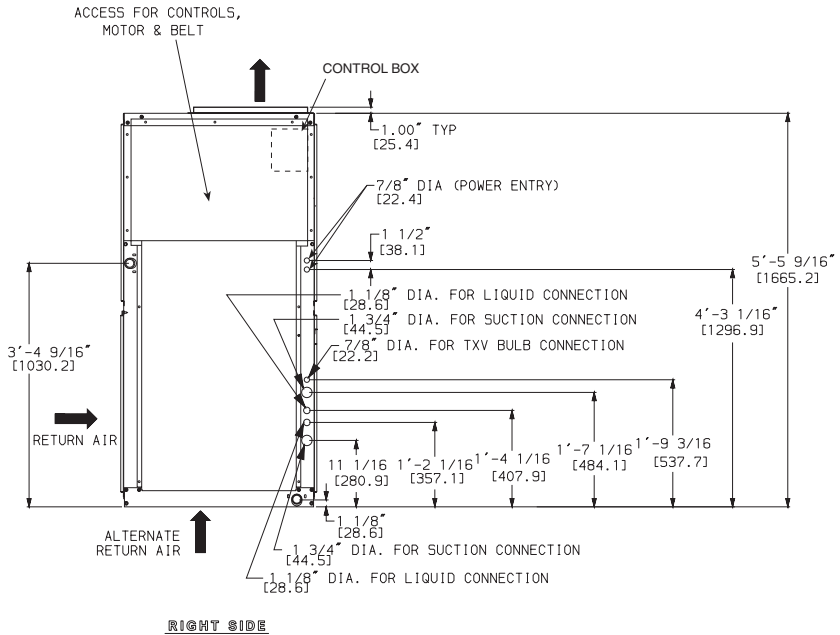
TXV — Thermostatic Expansion Valve

NOTES:
1. Dimensions in [ ] are in millimeters.
2. ➡ Direction of airflow.
3. Recommended clearance:
   - Rear: 3″ (76.2 mm) (2′-6″ [762 mm] with electric heat accessory)
   - Front: 2′-6″ (762 mm)
   - Right side: 2′-6″ (762 mm)
   - Left Side: 2′-6″ (762 mm)
   - Local codes or jurisdiction may prevail.
4. Liquid piping not supplied by Carrier.
5. Duct flange is factory supplied and field installed.

UNIT	UNIT WEIGHT lb (kg)
40RM014	670 (304)
40RM016	685 (311)
40RM024	690 (313)
40RM014 4 ROW	695 (315)
40RM016 4 ROW	713 (323)
40RM024 4 ROW	730 (331)
40RMQ016	713 (323)
40RMQ024	720 (326)
40RMS014	661 (300)
40RMS016	677 (307)
40RMS024	683 (310)

40RM028,034
40RMQ028
40RMS028,034





TXV — Thermostatic Expansion Valve

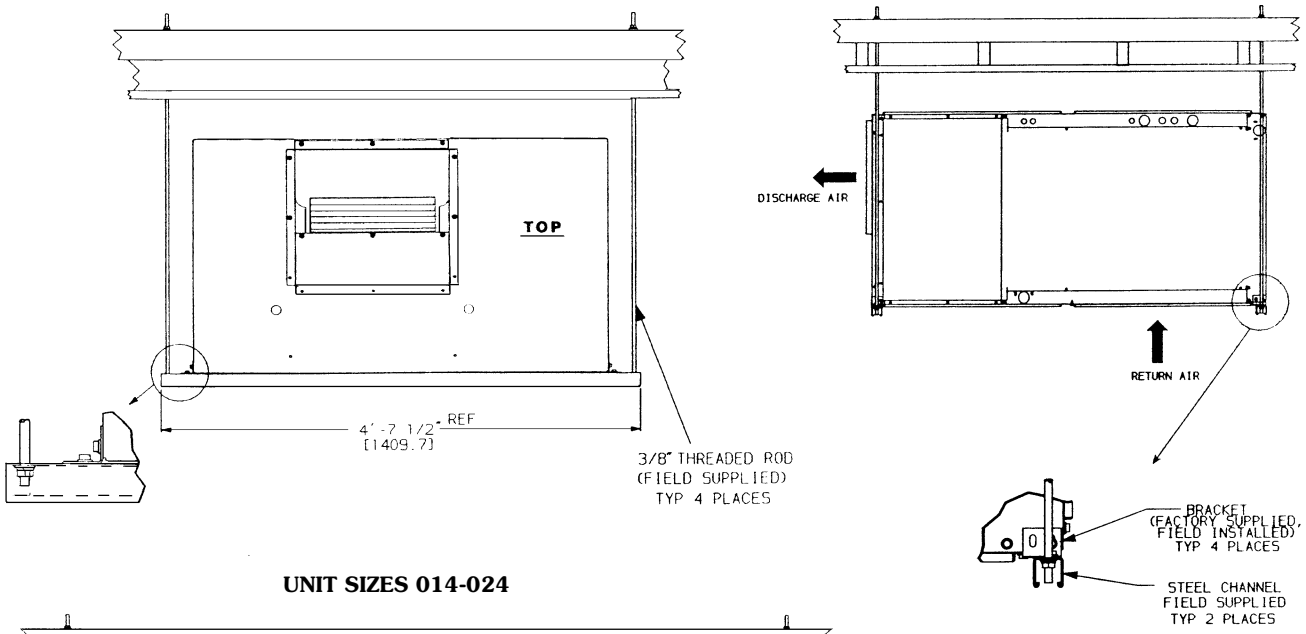
NOTES:
1. Dimensions in [ ] are in millimeters.
2. ➡ Direction of airflow.
3. Recommended clearance:
   - Rear: 3″ (76.2 mm) (2′-6″ [762 mm] with electric heat accessory)
   - Front: 2′-6″ (762 mm)
   - Right side: 2′-6″ (762 mm)
   - Left Side: 2′-6″ (762 mm)
   - Local codes or jurisdiction may prevail.
4. Liquid piping not supplied by Carrier.
5. Duct flange is factory supplied and field installed.

UNIT	UNIT WEIGHT lb (kg)
40RM028	1020 (463)
40RM034	1030 (467)
40RM028 4 ROW	1050 (470)
40RM034 4 ROW	1062 (482)
40RMQ028	1050 (477)
40RMS028	1035 (469)
40RMS034	1042 (473)

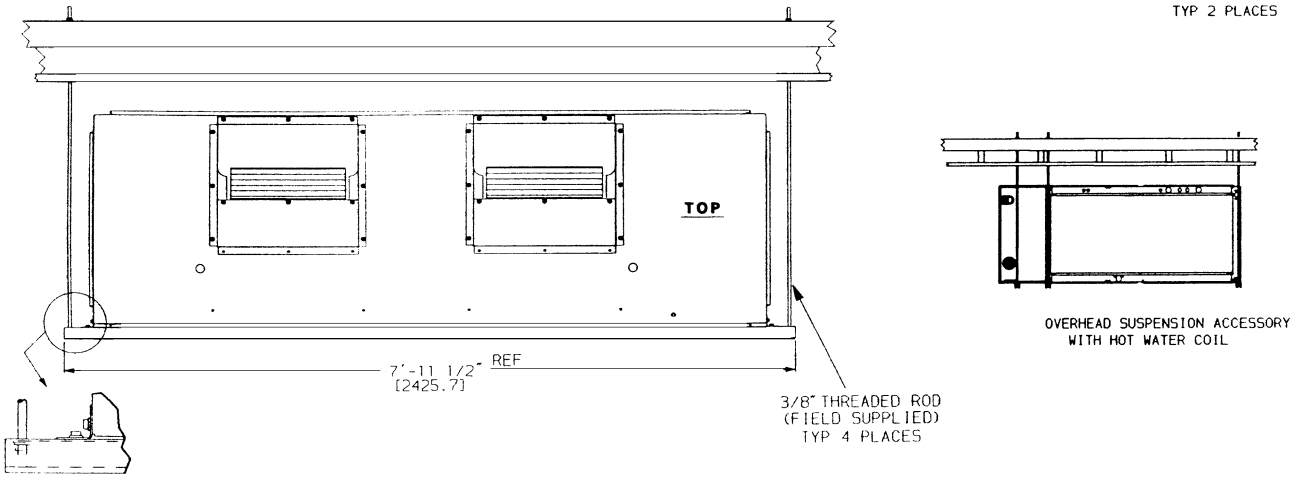
Dimensions (cont)

OVERHEAD SUSPENSION ACCESSORY

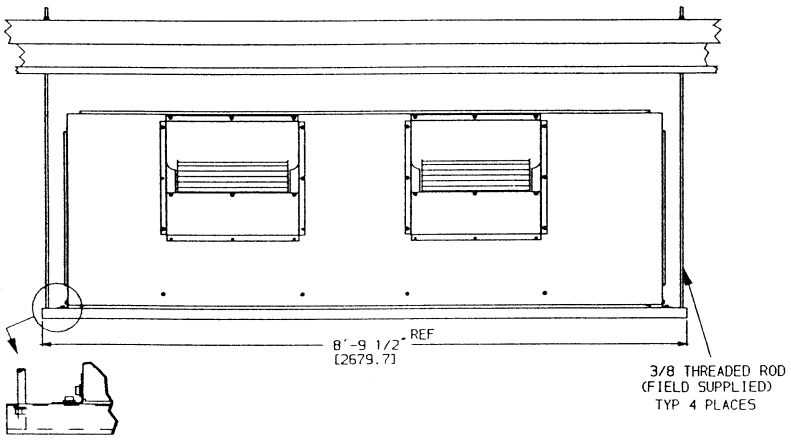
UNIT SIZES 007-012



UNIT SIZES 014-024



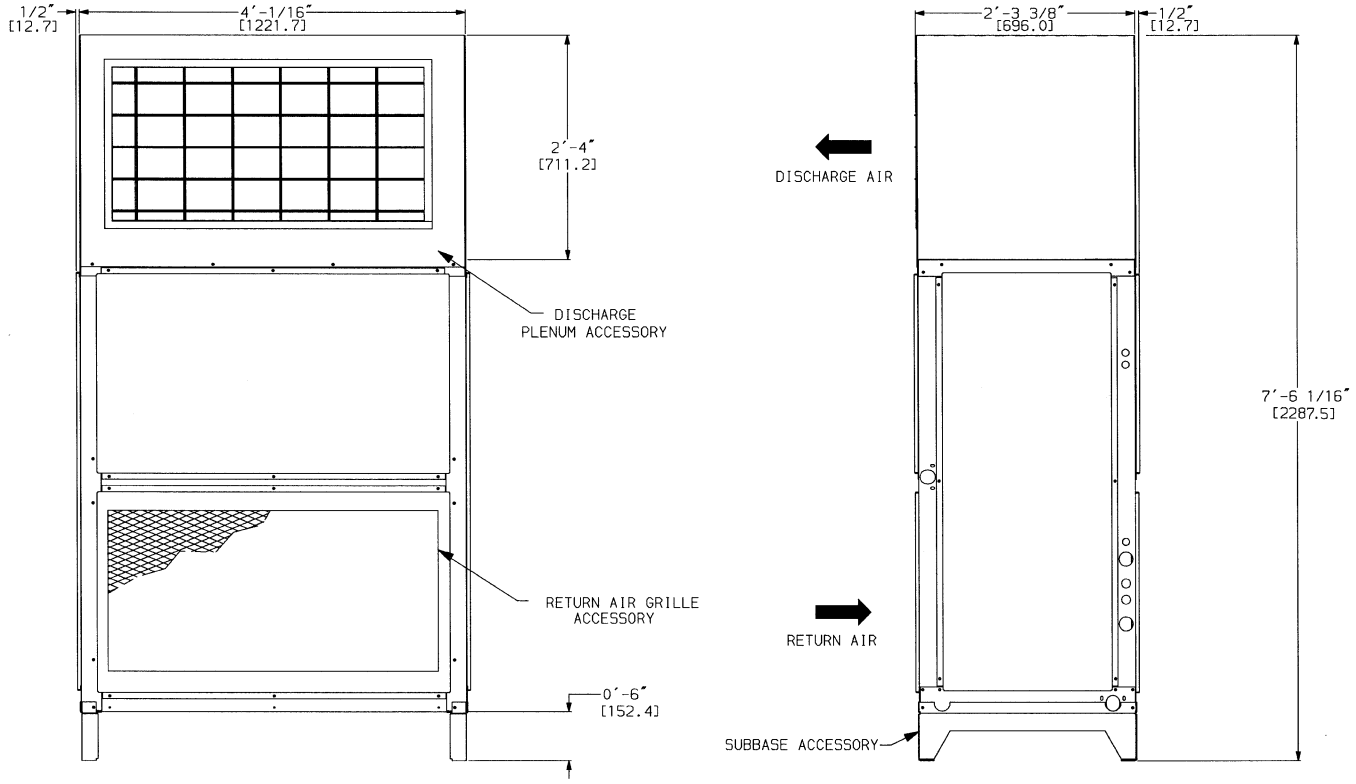
UNIT SIZES 028,034



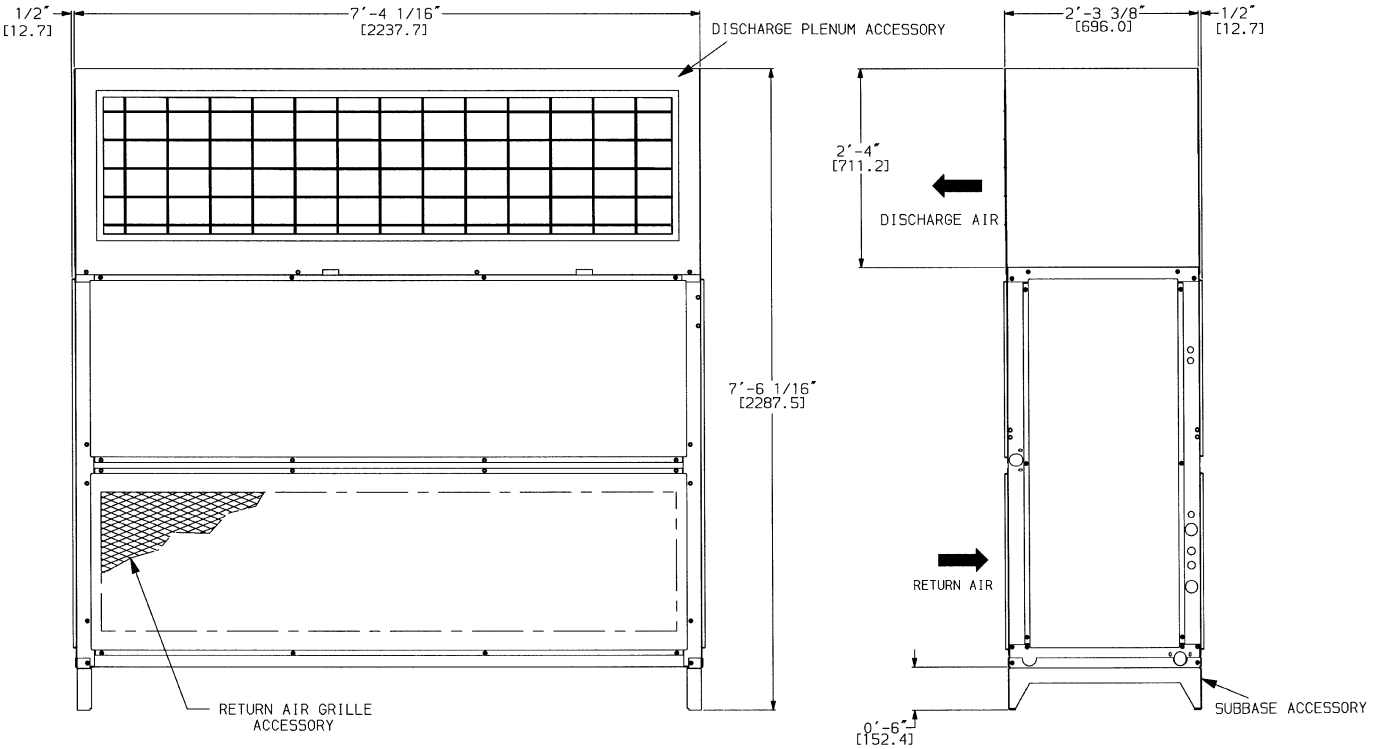
NOTE: Dimensions in [ ] are millimeters.

PLENUM, RETURN-AIR GRILLE, AND SUBBASE ACCESSORIES

UNIT SIZES 007-012



UNIT SIZES 014-024

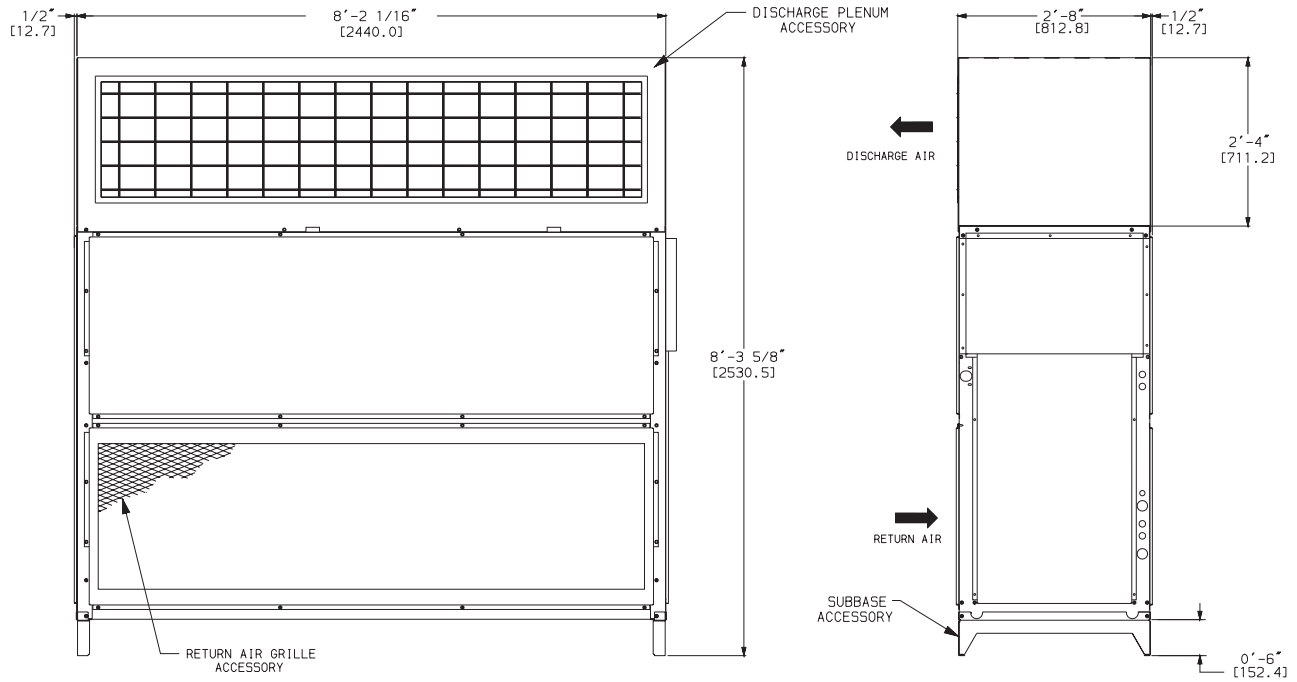


NOTE: Dimensions in [ ] are millimeters.

Dimensions (cont)

PLENUM, RETURN-AIR GRILLE, AND SUBBASE ACCESSORIES (cont)

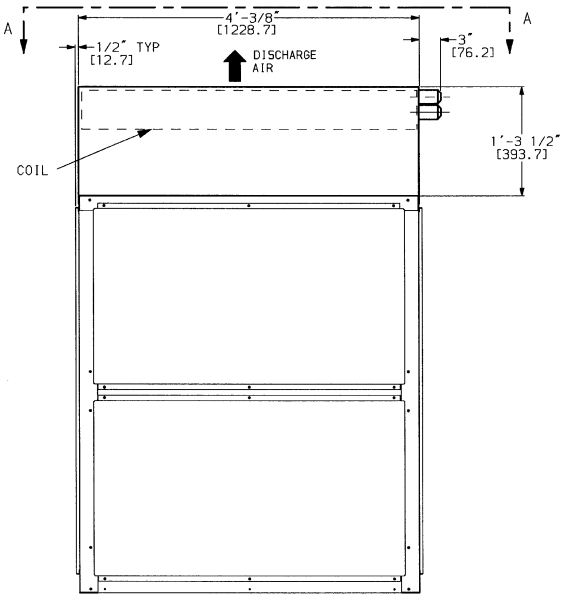
UNIT SIZES 028,034

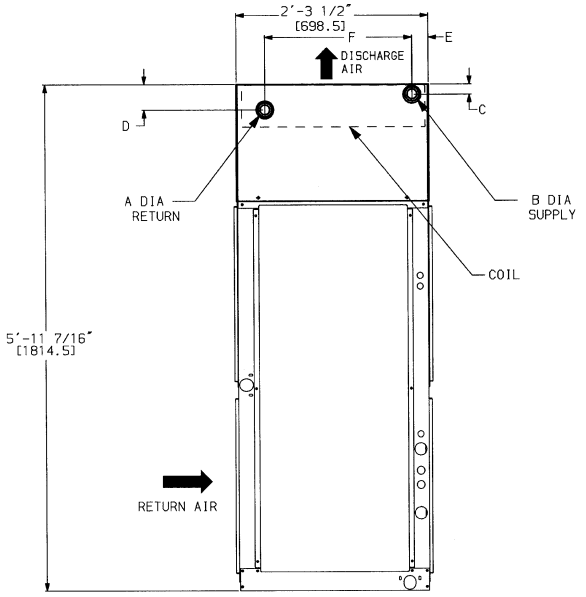


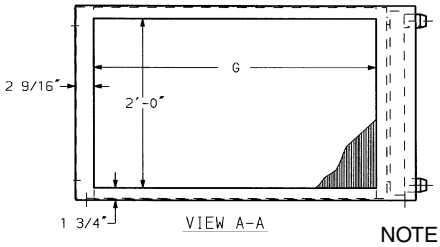
NOTE: Dimensions in [ ] are millimeters.

HOT WATER AND STEAM COIL ACCESSORIES

UNIT SIZES 007-012



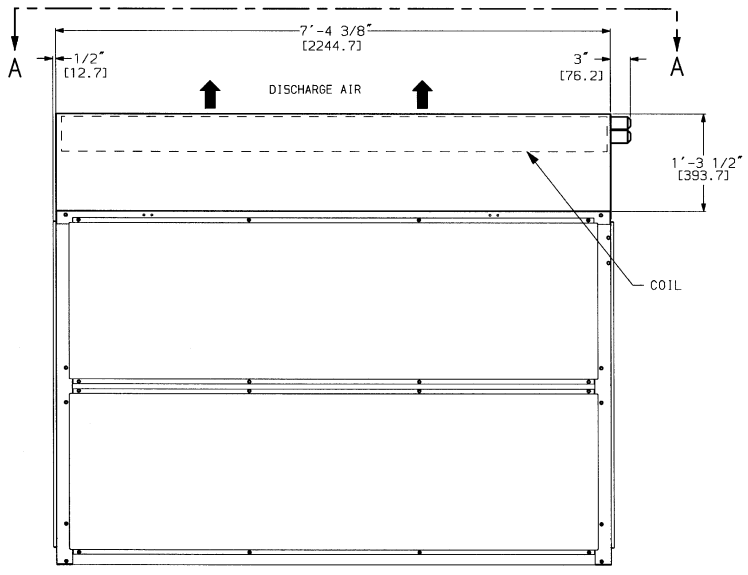


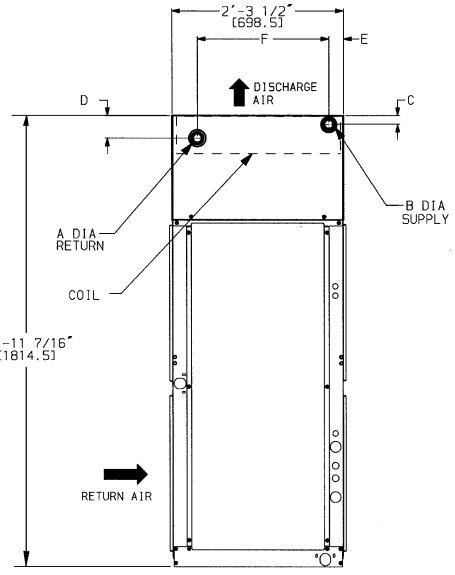


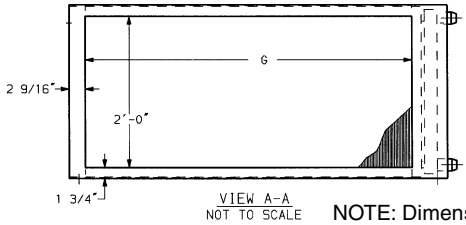
DIMENSION	HOT WATER COIL		STEAM COIL	
A	1 1/2″ MPT	[38.1]	1 1/2″ MPT	[38.1]
B	1 1/2″ MPT	[38.1]	2 1/2″ MPT	[63.5]
C	2 3/8″	[60.3]	3 1/8″	[79.4]
D	4 7/8″	[123.8]	3 1/8″	[79.4]
E	2 1/8″	[54.0]	4 9/16″	[115.8]
F	1′-11 1/4″	[590.6]	1′-9″	[584.2]
G	3′- 4″	[1016.0]	3′-4″	[1016.0]

NOTE: Dimensions in [ ] are millimeters.

UNIT SIZES 014-024







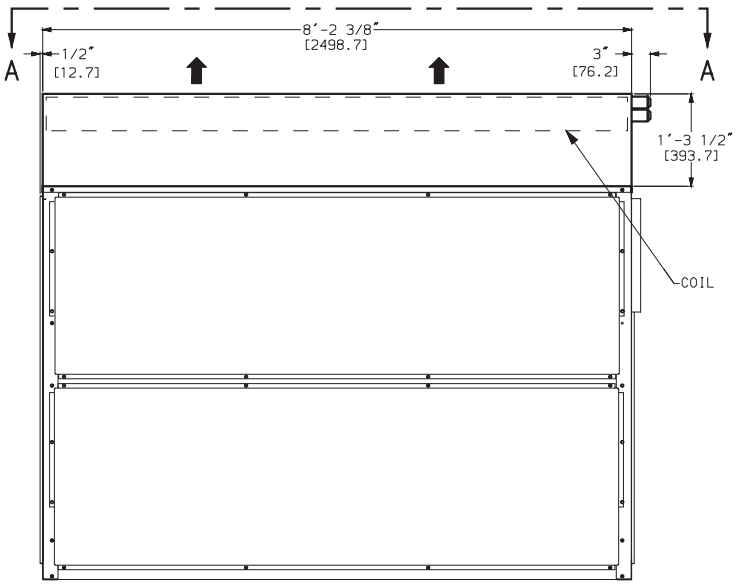
DIMENSION	HOT WATER COIL		STEAM COIL	
A	2″ MPT	[50.8]	1 1/2″ MPT	[38.1]
B	2″ MPT	[50.8]	2 1/2″ MPT	[63.5]
C	2 3/8″	[60.3]	3 1/8″	[79.4]
D	4 7/8″	[123.8]	3 1/8″	[79.4]
E	2 1/8″	[54.0]	4 9/16″	[115.8]
F	1′-11 1/4″	[590.6]	1′-9″	[584.2]
G	6′- 8″	[2032.0]	6′-8″	[2032.0]

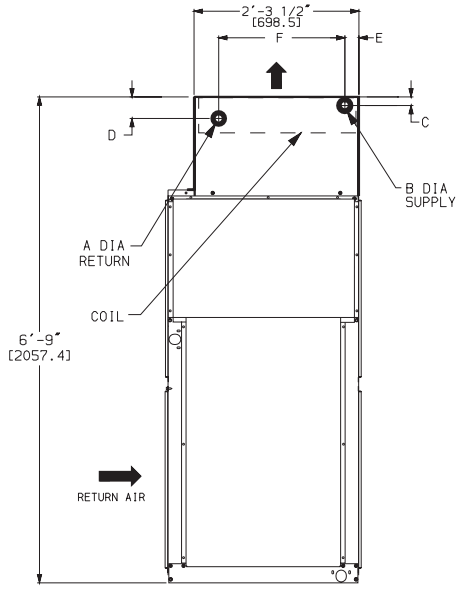
NOTE: Dimensions in [ ] are millimeters.

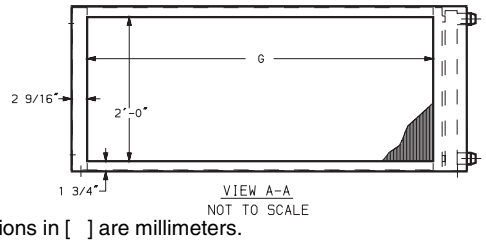
Dimensions (cont)

HOT WATER AND STEAM COIL ACCESSORIES (cont)

UNIT SIZES 028,034





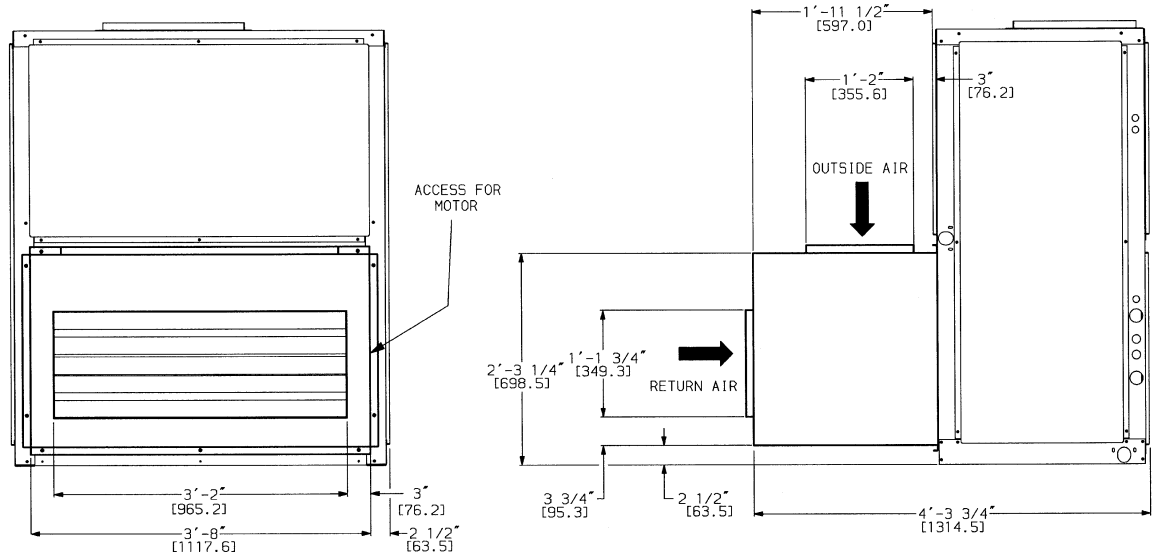


DIMENSION	HOT WATER COIL		STEAM COIL	
A	2″ MPT	[50.8]	1 1/2″ MPT	[38.1]
B	2″ MPT	[50.8]	2 1/2″ MPT	[63.5]
C	2 3/8″	[60.3]	3 1/8″	[79.4]
D	4 7/8″	[123.8]	3 1/8″	[79.4]
E	2 1/8″	[54.0]	4 9/16″	[115.8]
F	1′-11 1/4″	[590.6]	1′-9″	[584.2]
G	7′- 6″	[2286.0]	7′-6″	[2286.0]

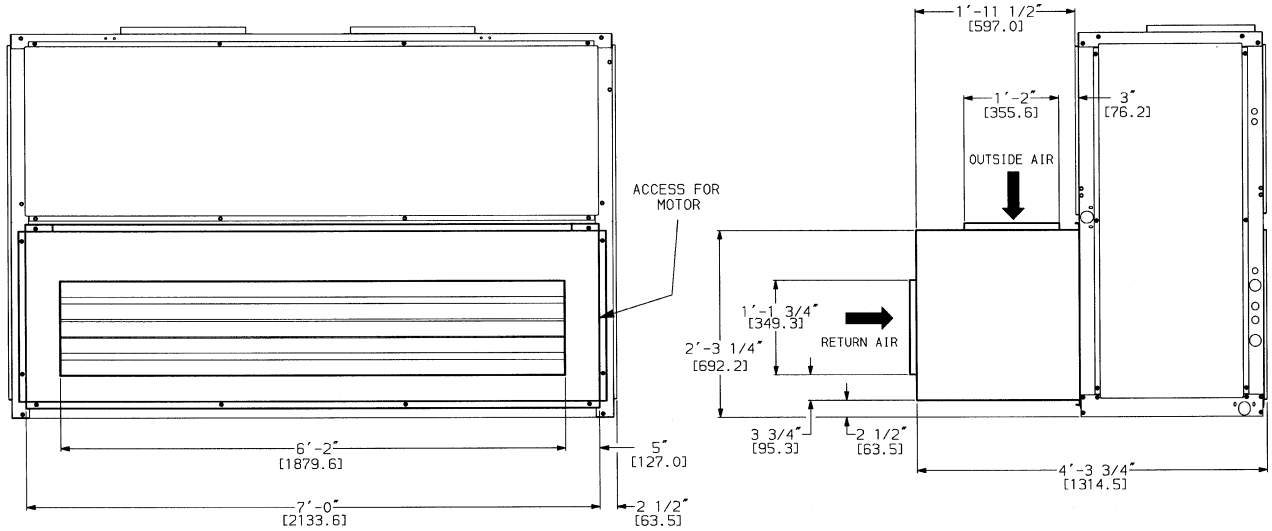
NOTE: Dimensions in [ ] are millimeters.

ECONOMIZER ACCESSORY

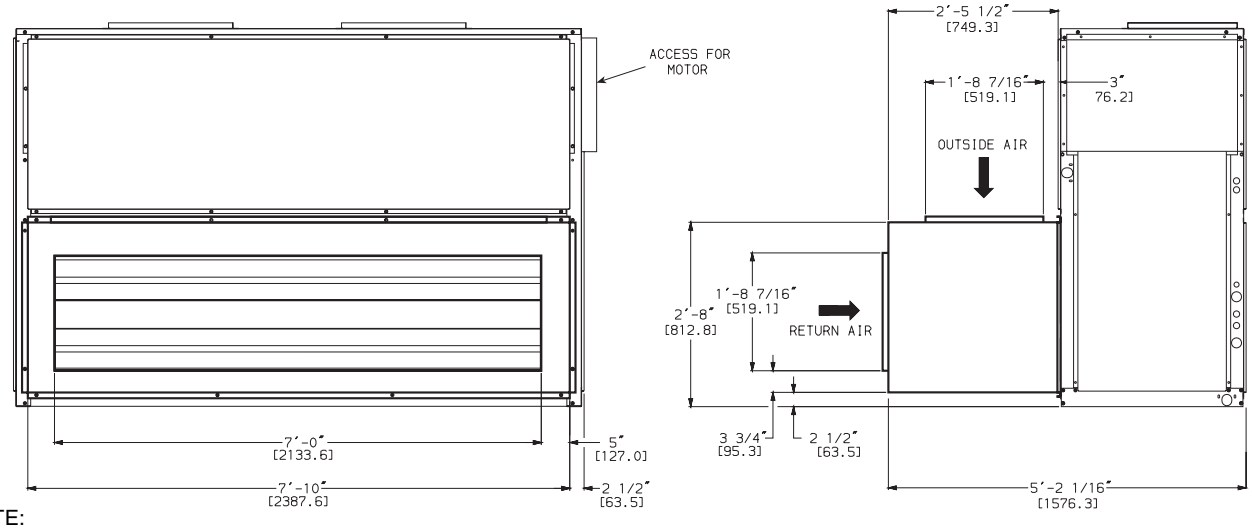
UNIT SIZES 007-012



UNIT SIZES 014-024



UNIT SIZES 028,034

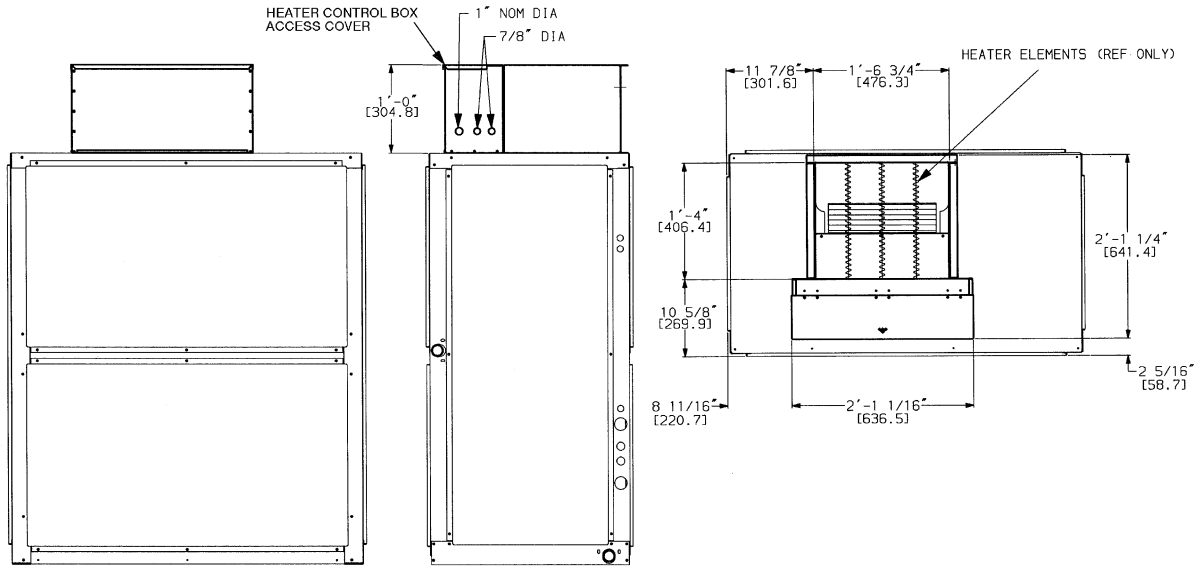


NOTE:
1. For horizontal unit applications, economizer can be attached to end of unit opposite duct connections.
2. Dimensions in [ ] are millimeters.

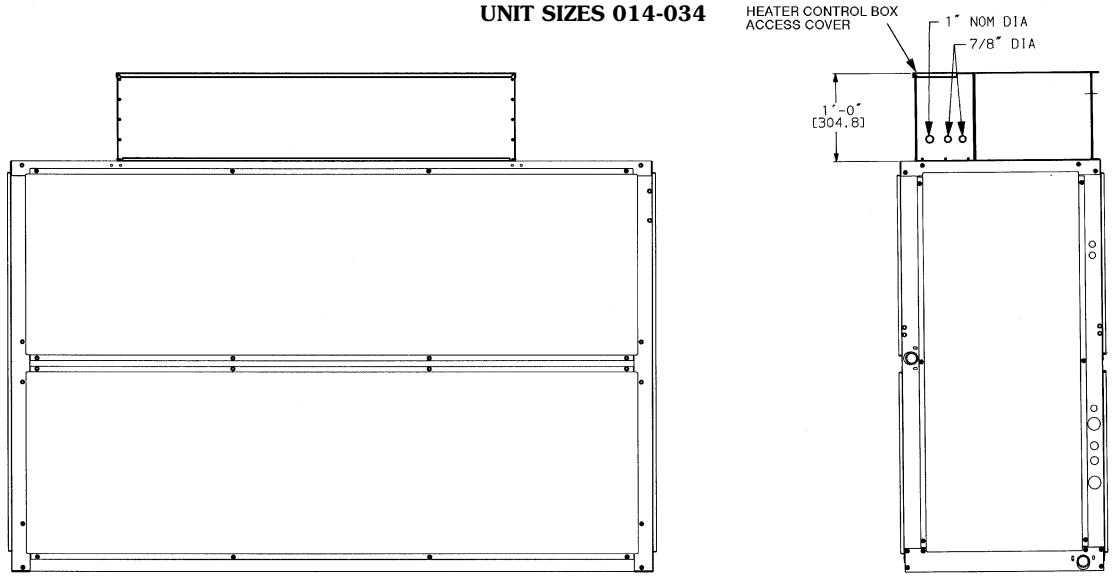
Dimensions (cont)

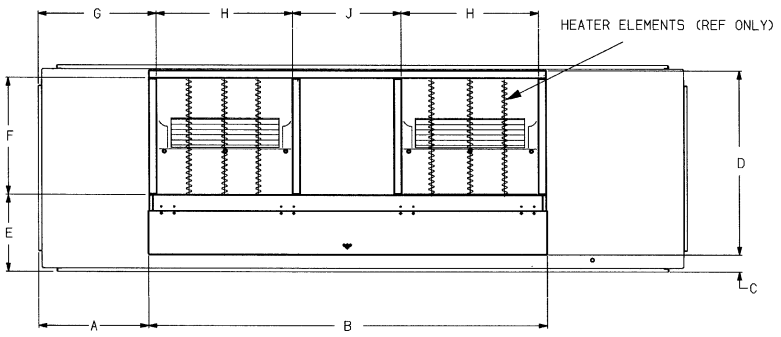
ELECTRIC HEAT ACCESSORY

UNIT SIZES 007-012



UNIT SIZES 014-034





UNIT SIZE	A	B	C	D	E	F	G	H	J
014-024	1′-3 1/4″ [387.4]	4′-6 3/8″ [1381.1]	2 5/16″ [58.7]	2′-1 1/4″ [641.4]	10 5/8″ [269.9]	1′-4″ [406.4]	1′-4 5/16″ [414.3]	1′-6 3/4″ [476.3]	1-7/8″ [327.0]
028,034	1′-3 3/8″ [390.5]	5′-4 7/16″ [1636.8]	2 1/16″ [26.9]	2′-6 3/16″ [766.8]	1-1/4″ [311.2]	1′-7″ [482.6]	1′-4 5/16″ [414.0]	1′-10″ [558.8]	1′-4 7/16″ [417.1]

NOTE: Dimensions in [ ] are millimeters.

Selection procedure (with example) — English (60 Hz)

Cooling (DX)

I Determine the cooling load and temperature and quantity of air entering the evaporator.

Given:

Total Capacity . . . . . .200,000 Btuh
Sensible Heat Capacity . . . . . .130,000 Btuh
Air Temperature Entering Indoor Coil . . . . . 80 F db, 67 F wb
Air Quantity Entering Indoor Coil . . . . . 6000 cfm
Ductwork Static Pressure Loss . . . . . .0.8 in. wg
Power Supply 230-3-60

II Determine unit selection and coil refrigerant temperature.

Enter the Cooling Capacities table at 6000 cfm. Select a 40RM016 unit which has a total capacity of 207,000 and 174,000 Btuh at 40 and 45 F coil refrigerant temperature, respectively. By interpolation, coil refrigerant temperature of 41.1 F is needed to give a total capacity of 200,000 Btuh. Sensible capacity is approximately 149,000 Btuh. Cooling load is satisfied.

Heating (Hot Water Coil)

I Determine heating load and temperature of air entering the indoor coil.

Given:

Load . . . . . .425,000 Btuh
Entering-Air Temperature . . . . . .70 F
Coils . . . . . 2-Row Hot Water
Coil Entering-Water Temperature . . . . . .200 F
Water Temperature Drop . . . . . .20 F

II Find the heating capacity.

Enter Hydronic Heating Capacities table for the 40RM016 unit at 6000 cfm. A 2-row hot water coil delivers 471,000 Btuh (based on 60 F entering air temperature and 20 F water temperature drop). Since existing entering air temperature is 70 F, enter the Heating Correction Factors table for hot water coils at 200 F entering water temperature, 20 F water temperature drop and 70 F entering air. Read a constant of 0.93.

471,000 x 0.93 = 438,000

The 438,000 Btuh rating satisfies the heating load.

Fan

I Determine fan speed and brake horsepower:

From the Accessory Pressure Drop table, read a loss of 0.23 in. wg for a hot water coil at 6000 cfm.

External static pressure = 0.80 + 0.23
= 1.03 in. wg

Enter 40RM016 Fan Performance table at 6000 cfm and 1.03 in. wg. Interpolate and determine fan speed of 864 rpm and 3.1 bhp.

II Determine motor and drive.

Enter the fan motor data tables on page 66, and find that the 230 v standard motor for a 40RM016 unit is rated at 3.7 Hp. Since the bhp required is 3.1, a standard motor satisfies the requirement and should be used.

Next, find the type of drive that satisfies the 864 rpm requirement in the Drive Data tables on pages 68-70. For a 40RM016 unit, the Medium-Static Drive table on page 68 shows an rpm range of 742 to 943. Since the rpm required is 864, the medium-static drive satisfies the requirement and should be used. Select the standard motor and medium-static drive combination (option code HC or FD).

To select an outdoor unit for this 40RM016 indoor section, refer to the Combination Rating sheets for Carrier condensing units in the condensing unit Product Data Digest, or consult the Carrier Electronic Catalog.

Cooling (Chilled Water)

NOTE: Chilled water coils (40RMS) can be selected by using Carrier's Electronic Catalog software program.

Selection procedure (with example) — SI (50 Hz)

Cooling (DX)

I Determine the cooling load and temperature and quantity of air entering the evaporator.

Given:

Total Capacity . . . . . 37 kW

Sensible Heat Capacity . . . . . 29 kW

Air Temp Entering
Indoor Coil . . . . . 26.7 C db, 19 C wb

Air Quantity Entering Indoor Coil . . . . . 1900 L/s

Ductwork Static Pressure Loss. . . . . .200 Pa

II Determine unit selection and coil refrigerant temperature.

Enter the Cooling Capacities table at 1900 L/s. Select a 40RM012 unit which has a total capacity of 37.35 kW at 6 C coil refrigerant temperature. Sensible capacity is 29.61 kW. Cooling load is satisfied.

Heating (Hot Water Coil)

I Determine heating load and temperature of air entering the indoor coil.

Given:

Load . . . . . 85 kW

Entering-Air Temperature . . . . . 15.6 C

Coils . . . . . 2-Row Hot Water

Coil Entering-Water Temperature . . . . . 93.3 C

Water Temperature Drop. . . . . 11.1 C

II Find the heating capacity.

Enter Hydronic Heating Capacities table for the 40RM012 unit at 1900 L/s. A 2-row hot water coil delivers 90 kW (based on 15.6 C entering air temperature and 11.1 C water temperature drop).

The 90 kW rating satisfies the heating load.

Fan

I Determine fan speed and brake horsepower.

From the Accessory Pressure Drop table, read a loss of 93 Pa for a hot water coil at 1900 L/s.

External static pressure = 200 + 93
= 293 Pa

Enter 40RM012 Fan Performance table at 1890 L/s and 293 Pa. Interpolate and determine fan speed of 16.47 r/s and 1.90 kW.

II Determine motor and drive.

Enter the Fan Motor Data tables on page 67, and find that the standard motor for a 40RM012 unit is rated at 2.16 kW. Since the kW required is 1.90, a standard motor does satisfy the requirement.

Next, find the type of drive that satisfies the 16.47 r/s requirement in the Drive Data tables on pages 71-73. For a 40RM012 unit, the Medium-Static Drive table on page 73 shows an r/s range of 13.5 to 17.4. Since the r/s required is 16.47, the medium-static drive satisfies the requirement and should be used. Select the standard motor and medium-static drive combination.

To select an outdoor unit for this 40RM012 indoor section, refer to the Combination Rating sheets for Carrier condensing units in the condensing unit Product Data Digest, or consult the latest Carrier Electronic Catalog.

Cooling (Chilled Water)

NOTE: Select chilled water coils (40RMS) by using Carrier's Electronic Catalog software program.

Performance data

40RM WITH STANDARD COIL COOLING CAPACITIES — ENGLISH

UNIT 40RM (Standard 3 Row Coil)	EVAPORATOR AIR		COIL REFRIGERANT TEMP (F)									
	Airflow (Cfm) BF	Ewb (F)	30		35		40		45		50	
			TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
007	1,800 0.06	72	116	55	104	50	93	46	79	40	64	35
		67	96	61	85	56	74	50	61	45	47	40
		62	80	66	69	61	57	55	46	46	39	39
	2,400 0.10	72	135	65	121	60	108	54	92	48	75	42
		67	112	73	99	68	86	62	71	56	55	49
		62	94	81	81	75	67	67	56	56	47	47
	3,000 0.12	72	150	73	135	68	120	62	102	56	83	49
		67	125	85	112	78	96	71	80	65	61	57
		62	105	95	90	86	75	75	64	64	54	54
008	2,250 0.06	72	144	69	130	63	116	57	99	50	80	43
		67	120	76	106	70	92	63	76	56	59	50
		62	100	83	87	76	71	69	57	57	49	49
	3,000 0.10	72	169	81	151	75	135	68	114	61	94	53
		67	140	92	124	85	108	77	89	69	69	62
		62	118	101	102	94	84	84	70	70	59	59
	3,750 0.12	72	187	92	168	85	150	78	127	70	104	61
		67	157	106	140	97	120	89	100	81	77	72
		62	132	118	112	108	94	94	80	80	68	68
012	3,000 0.05	72	193	92	174	81	154	76	132	67	108	58
		67	161	102	143	93	123	85	102	76	79	67
		62	134	111	116	102	96	93	78	78	66	66
	4,000 0.07	72	223	108	201	99	179	91	153	81	125	71
		67	186	122	166	113	143	104	119	93	92	82
		62	157	136	136	126	113	113	95	95	80	80
	5,000 0.12	72	246	122	222	112	198	103	169	93	138	81
		67	207	140	185	131	159	120	132	109	102	97
		62	175	159	149	145	126	126	109	109	92	92
014	3,750 0.06	72	223	107	204	99	183	91	157	81	127	70
		67	188	121	169	112	144	102	118	90	94	81
		62	154	133	136	123	114	111	94	94	80	80
	5,000 0.08	72	259	126	234	117	210	108	180	97	145	85
		67	220	146	194	136	166	124	138	112	110	100
		62	178	163	156	150	134	134	114	114	97	97
	6,250 0.10	72	284	142	257	132	230	122	198	111	160	98
		67	242	166	209	154	183	145	153	131	119	117
		62	197	188	172	172	150	150	130	130	111	111
016	4,500 0.03	72	282	134	254	123	228	112	194	100	162	89
		67	233	149	209	138	178	125	149	112	117	99
		62	192	163	169	151	141	138	116	116	98	98
	6,000 0.05	72	320	156	293	145	263	134	223	119	179	104
		67	276	181	243	167	207	153	174	137	137	123
		62	225	200	198	185	167	167	140	140	119	119
	7,500 0.08	72	358	177	319	163	290	152	248	137	197	120
		67	305	208	263	192	229	178	193	160	153	144
		62	512	322	182	151	88	188	161	161	136	136
024	6,000 0.03	72	365	174	330	161	296	147	254	131	206	114
		67	309	198	274	182	234	166	195	150	153	132
		62	250	216	221	200	186	182	155	155	132	132
	8,000 0.06	72	416	203	378	189	338	174	291	157	235	138
		67	354	237	305	217	269	202	224	183	179	163
		62	290	264	253	245	218	218	187	187	159	159
	10,000 0.07	72	454	228	413	213	373	198	319	179	259	160
		67	376	266	338	251	296	235	250	214	194	189
		62	316	303	279	278	244	244	213	213	182	182

See Legend and Notes on page 26.

Performance data (cont)

40RM WITH STANDARD COIL COOLING CAPACITIES — ENGLISH (cont)

UNIT 40RM (Standard 3 Row Coil)	EVAPORATOR AIR		COIL REFRIGERANT TEMP (F)									
	Airflow (Cfm) BF	Ewb (F)	30		35		40		45		50	
			TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
028	7,500 0.04	72	440	211	394	193	361	180	312	162	255	142
		67	374	241	385	225	287	205	235	184	191	166
		62	303	265	270	247	229	226	193	193	165	165
	10,000 0.06	72	498	246	454	229	408	212	354	193	288	170
		67	425	288	373	267	327	249	271	226	220	203
		62	350	325	306	302	267	267	232	232	199	199
	12,500 0.08	72	—	—	495	258	445	240	385	220	318	198
		67	456	327	408	308	359	289	304	265	239	235
		62	380	375	336	336	299	299	264	264	226	226
034	9,000 0.04	72	527	253	473	232	433	216	375	194	306	170
		67	449	290	402	270	345	246	282	221	229	199
		62	364	318	323	297	275	271	232	232	198	198
	12,000 0.06	72	598	295	545	275	490	254	425	232	346	205
		67	510	346	448	321	393	298	326	271	263	244
		62	420	390	367	362	321	321	279	279	238	238
	15,000 0.08	72	—	—	594	309	534	288	462	264	382	237
		67	547	392	490	370	431	347	365	318	287	282
		62	456	450	403	403	359	359	317	317	271	271

LEGEND

BF — Bypass Factor
db — Dry-Bulb Temp (F)
Ewb — Entering Wet-Bulb Temp (F)
lwb — Leaving Wet-Bulb Temp (F)
SHC — Sensible Heat Capacity (1000 Btuh)
TC — Total Capacity (1000 Btuh)

NOTES:
1. Direct interpolation is permissible. Do not extrapolate.
2. Evaporator fan heat not deducted from ratings.
3. Ratings based on approximately 15 F superheat leaving coil.
4. Dashes indicate coil loading limits are exceeded.
5. Formulas:

$$\text{Leaving db} = \text{entering db} - \frac{\text{sensible heat capacity (Btuh)}}{1.1 \times \text{cfm}}$$

Leaving wb = wet-bulb temperature corresponding to enthalpy of air leaving coil (h_{lwb})

$$h_{lwb} = h_{ewb} - \frac{\text{total capacity (Btuh)}}{4.5 \times \text{cfm}}$$

where h_{ewb} = enthalpy of air entering coil

6. SHC is based on 80 F db temperature of air entering evaporator coil. Below 80 F db, subtract (corr factor x cfm) from SHC.

   Above 80 F db, add (corr factor x cfm) to SHC. See italic type below.

BYPASS FACTOR	ENTERING AIR DRY-BULB TEMP (F)					
	79	78	77	76	75	Under 75
	81	*82*	*83*	*84*	*85*	*Over 85*
	Correction Factor					
0.02	1.08	2.16	3.23	4.31	5.39	use formula shown below
0.05	1.05	2.09	3.14	4.18	5.23	
0.10	0.99	1.98	2.97	3.96	4.95	
0.15	0.94	1.87	2.81	3.74	4.68	
0.20	0.88	1.76	2.64	3.52	4.40	
0.25	0.83	1.65	2.48	3.30	4.13	
0.30	0.77	1.54	2.31	3.08	3.85	

Interpolation is permissible.
Correction Factor = 1.1 x (1 – BF) x (db – 80)

40RM WITH STANDARD COIL COOLING CAPACITIES — SI

UNIT 40RM (Standard 3 Row Coil)	EVAPORATOR AIR		COIL REFRIGERANT TEMP (C)													
	Airflow (L/s) BF	Ewb (C)	–1		0		2		4		6		8		10	
			TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
007	850 .06	22	33.73	16.27	32.43	15.75	29.83	14.69	27.23	13.64	24.62	12.60	22.02	11.57	19.40	10.57
		19	27.79	18.51	26.56	17.93	24.10	16.78	21.64	15.63	19.17	14.51	16.70	13.41	14.22	12.41
		16	22.73	21.09	21.58	20.29	19.27	18.70	16.95	16.95	14.62	14.62	12.28	12.28	9.93	9.93
	1150 .10	22	39.24	19.50	37.73	18.87	34.70	17.60	31.68	16.34	28.66	15.09	25.63	13.89	22.60	12.66
		19	32.37	22.21	30.93	21.58	28.06	20.32	25.18	19.08	22.30	17.86	19.41	16.79	16.51	15.64
		16	26.41	25.86	25.15	24.85	22.64	22.64	20.11	20.11	17.58	17.58	15.04	15.04	12.49	12.49
	1450 .12	22	43.88	21.85	42.16	21.22	38.71	19.97	35.26	18.72	31.82	17.50	28.37	16.33	24.92	23.63
		19	36.69	25.31	35.04	24.63	31.74	23.30	28.44	21.99	25.14	20.73	21.83	19.63	18.52	18.52
		16	29.14	29.14	27.82	27.82	25.19	25.19	22.55	22.55	19.91	19.91	17.26	17.26	14.61	14.61
008	1000 .06	22	42.12	20.58	40.51	19.89	37.29	18.52	34.07	17.16	30.84	15.80	27.61	14.46	24.37	13.18
		19	34.64	23.22	33.11	22.48	30.05	21.01	26.97	19.55	23.89	18.12	20.80	16.74	17.71	15.49
		16	28.76	26.41	27.26	25.39	24.26	23.38	21.25	21.25	18.22	18.22	15.17	15.17	12.10	12.10
	1400 .10	22	49.07	24.22	47.14	23.49	43.29	22.02	39.43	20.56	35.57	19.12	31.71	17.72	27.85	16.48
		19	40.52	27.88	38.72	27.04	35.13	25.38	31.54	23.74	27.94	22.15	24.33	20.67	20.71	19.62
		16	33.30	32.38	31.70	31.12	28.48	28.48	25.25	25.25	22.01	22.01	18.76	18.76	15.50	15.50
	1800 .12	22	54.60	27.31	52.46	26.52	48.17	24.95	43.89	23.40	39.61	21.87	35.32	20.41	31.04	19.32
		19	45.87	31.43	43.80	30.60	39.68	28.96	35.55	27.35	31.42	25.81	27.28	24.47	23.14	23.14
		16	36.21	36.21	34.59	34.59	31.35	31.35	28.10	28.10	24.85	24.85	21.59	21.59	18.33	18.33
012	1450 .05	22	56.46	26.00	54.28	25.26	49.91	23.80	45.53	22.33	41.15	20.89	36.77	19.47	32.38	18.13
		19	46.83	30.42	44.73	29.53	40.53	27.76	36.32	26.01	32.10	24.29	27.87	22.64	23.64	21.21
		16	38.11	34.82	36.21	33.56	32.39	31.04	28.56	28.55	24.71	24.71	20.85	20.85	16.97	16.97
	1900 .07	22	65.14	31.89	62.64	30.94	57.64	29.05	52.64	27.17	47.63	25.30	42.62	23.47	37.61	21.73
		19	54.26	36.83	51.85	35.78	47.03	33.70	42.19	31.64	37.35	29.61	32.51	27.68	27.65	26.01
		16	44.18	43.13	42.12	41.49	37.99	37.99	33.85	33.85	29.71	29.71	25.55	25.55	21.37	21.37
	2350 .12	22	71.98	35.85	69.21	34.85	63.67	32.86	58.13	30.89	52.59	28.93	47.05	27.03	41.51	25.31
		19	60.62	42.44	57.89	41.30	52.41	39.02	46.93	36.77	41.45	34.59	35.97	32.55	30.49	30.49
		16	47.82	47.82	45.79	45.79	41.72	41.72	37.66	37.66	33.59	33.59	29.52	29.52	25.44	25.44
014	1750 .06	22	65.89	31.93	63.44	30.98	58.55	29.09	53.65	27.21	48.75	25.34	43.85	23.49	38.94	21.73
		19	55.70	36.93	53.09	35.77	47.85	33.46	42.61	31.18	37.35	28.93	32.09	26.75	26.81	24.76
		16	44.35	42.14	42.24	40.60	38.02	37.55	33.78	33.78	29.53	29.53	25.27	25.27	20.98	20.98
	2350 .08	22	75.61	37.49	72.79	36.44	67.15	34.34	61.51	32.26	55.87	30.19	50.23	28.16	44.58	26.26
		19	63.64	44.28	60.75	43.02	54.97	40.53	49.19	38.06	43.40	35.64	37.61	33.33	31.81	31.36
		16	50.09	50.09	47.97	47.97	43.71	43.71	39.44	39.44	35.17	35.17	30.90	30.90	26.62	26.62
	2950 .10	22	83.01	42.04	79.93	40.94	73.75	38.75	67.58	36.57	61.41	34.42	55.23	32.34	49.06	30.52
		19	67.98	49.45	65.08	48.26	59.28	45.89	53.48	43.57	47.68	41.33	41.88	39.29	36.08	36.08
		16	54.67	54.67	52.53	52.53	48.24	48.24	43.96	43.96	39.67	39.67	35.38	35.38	31.10	31.10
016	2100 .03	22	82.25	39.79	79.12	38.58	72.88	36.16	66.62	33.74	60.37	31.34	54.10	28.97	47.84	26.65
		16	68.47	45.43	65.39	44.06	59.24	41.32	53.07	38.61	46.89	35.94	40.70	33.33	34.50	30.88
		16	55.23	51.82	52.57	49.96	47.23	46.25	41.88	41.88	36.52	36.52	31.13	31.13	25.73	25.73
	2800 .05	22	94.97	46.65	91.32	45.28	84.03	42.55	76.72	39.83	69.42	37.13	62.11	34.48	54.80	31.95
		19	79.48	54.48	75.93	52.91	68.84	49.78	61.73	46.68	54.62	43.64	47.50	40.72	40.37	38.14
		16	64.12	63.23	61.19	60.85	55.34	55.34	49.48	49.48	43.61	43.61	37.72	37.72	31.82	31.82
	3500 .08	22	102.66	51.90	98.96	50.54	91.55	47.82	84.14	45.12	76.73	42.46	69.32	39.90	61.90	37.72
		19	85.35	62.06	81.75	60.40	74.54	57.09	67.33	53.84	60.11	50.69	52.89	47.79	45.66	45.66
		16	69.63	69.63	66.75	66.75	60.99	60.99	55.23	55.23	49.45	49.45	43.67	43.67	37.88	37.88
024	2900 .03	22	106.58	52.05	102.62	50.46	94.70	47.29	86.78	44.13	78.85	40.98	70.92	37.84	62.99	34.74
		19	89.80	59.51	85.74	57.82	77.63	54.44	69.50	51.08	61.37	47.75	53.21	44.47	45.05	41.29
		16	71.75	68.29	68.44	65.88	61.79	61.08	55.13	55.13	48.45	48.45	41.75	41.75	35.03	35.03
	3800 .06	22	122.11	60.50	117.57	58.81	108.48	55.45	99.38	52.11	90.29	48.79	81.19	45.52	72.10	42.39
		19	99.07	69.97	94.89	68.20	86.53	64.66	78.16	61.17	69.79	57.74	61.41	54.46	53.03	51.58
		16	80.95	80.95	77.60	77.60	70.90	70.90	64.19	64.19	57.48	57.48	50.76	50.76	44.03	44.03
	4700 .072	21	33.27	67.86	128.35	66.08	118.51	62.52	108.68	58.97	98.84	55.46	89.00	52.01	79.16	48.77
		19	109.55	80.54	104.99	78.62	95.88	74.79	86.76	71.01	77.65	67.33	68.53	63.85	59.41	59.41
		16	88.34	88.34	84.97	84.97	78.24	78.24	71.50	71.50	64.76	64.76	58.02	58.02	51.28	51.28

See Legend and Notes on page 27.

Performance data (cont)

40RM WITH STANDARD COIL COOLING CAPACITIES — SI (cont)

UNIT 40RM (Standard 3 Row Coil)	EVAPORATOR AIR		COIL REFRIGERANT TEMP (C)													
	Airflow (L/s) BF	Ewb (C)	–1		0		2		4		6		8		10	
			TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
028	3500 .04	22	125.95	61.58	121.69	59.95	113.17	56.69	104.65	53.45	96.11	50.22	87.57	47.04	79.02	43.94
		19	131.38	73.49	123.70	71.33	108.30	67.03	92.87	62.76	77.40	58.55	61.89	54.43	46.34	46.34
		16	86.95	83.51	83.12	80.66	75.43	74.98	67.71	67.71	59.95	59.95	52.17	52.17	44.34	44.34
	4700 .06	22	146.03	72.86	140.80	70.97	130.35	67.19	119.89	63.44	109.43	59.71	98.98	56.05	88.52	52.56
		19	121.55	85.85	116.28	83.71	105.73	79.45	95.19	75.24	84.63	71.12	74.08	67.17	63.52	63.52
		16	97.09	97.09	93.33	93.33	85.80	85.80	78.27	78.27	70.74	70.74	63.20	63.20	55.66	55.66
	5900 .08	22	159.37	81.76	153.60	79.77	142.08	75.79	130.55	71.82	119.02	67.89	107.49	64.01	95.96	60.28
		19	131.94	98.52	126.54	96.29	115.74	91.83	104.94	87.43	94.14	83.12	83.34	78.97	72.54	72.54
		16	105.39	105.39	101.70	101.70	94.30	94.30	86.91	86.91	79.52	79.52	72.13	72.13	64.73	64.73
034	4250 .04	22	151.16	74.13	146.07	72.13	135.88	68.13	125.69	64.15	115.49	60.19	105.27	56.27	95.05	52.43
		19	132.16	88.16	126.02	85.58	113.73	80.44	101.41	75.33	89.07	70.27	76.70	65.32	64.29	60.59
		16	103.92	100.45	99.38	97.00	90.28	90.14	81.14	81.14	71.97	71.97	62.77	62.77	53.52	53.52
	5650 .06	22	175.30	87.47	169.02	85.21	156.48	80.70	143.93	76.21	131.38	71.76	118.83	67.38	106.28	63.19
		19	145.93	103.33	139.63	100.72	127.01	95.52	114.39	90.38	101.76	85.34	89.14	80.49	76.50	76.18
		16	116.36	116.36	111.88	111.88	102.92	102.92	93.96	93.96	85.00	85.00	76.03	76.03	67.06	67.06
	7050 .08	22	191.24	97.85	184.33	95.48	170.49	90.77	156.66	86.08	142.82	81.42	128.99	76.84	115.15	72.42
		19	158.48	118.39	151.99	115.68	139.01	110.30	126.02	104.97	113.04	99.75	100.05	94.74	87.07	87.07
		16	126.37	126.37	121.95	121.95	113.12	113.12	104.29	104.29	95.45	95.45	86.62	86.62	77.78	77.78

LEGEND

BF — Bypass Factor
Edb — Entering Dry-Bulb
Ewb — Entering Wet-Bulb
Ldb — Leaving Dry-Bulb
Lwb — Leaving Wet-Bulb
SHC — Sensible Heat Capacity (kW)
TC — Total Capacity (kW)

NOTES:
1. Ratings based on approximately 8.3 C superheat leaving coil.
2. Direct interpolation is permissible. Do not extrapolate.
3. The SHC is based on 26.7 C db temperature of air entering the unit. At any other temperature, correct the SHC reading from the table of cooling capacities as follows:

   Correction factor = $1.23 \times 10^{-3} \times (1 - BF) \times (db - 26.7)$

   Above 26.7 C, add SHC correction to SHC. Below 26.7 C, subtract SHC correction from SHC.
4. Gross capacities shown do not include a deduction for evaporator-fan motor heat.
5. Formulas (cooling):

$$t_{ldb} = t_{edb} - \frac{\text{sensible heat capacity (kW)}}{1.23 \times 10^{-3} \times (L/s)}$$

t_{lwb} = wet-bulb temperature corresponding to enthalpy of air leaving coil (h_{lwb})

$$h_{lwb} = h_{ewb} - \frac{\text{total capacity (kW)}}{1.20 \times 10^{-3} \times (L/s)}$$

where h_{ewb} = enthalpy of air entering coil (kJ/kg)

40RM WITH HIGH CAPACITY COIL COOLING CAPACITIES — ENGLISH

UNIT 40RM (High Capacity 4 Row Coil)	EVAPORATOR AIR		COIL REFRIGERANT TEMP (F)									
	Airflow (Cfm)	Ewb (F)	30		35		40		45		50	
			TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
007	1,800	72	124	60	113	55	101	49	87	43	71	37
		67	104	64	93	59	81	53	67	47	52	40
		62	86	68	75	62	63	56	49	49	42	42
	2,400	72	143	69	131	64	117	58	101	52	83	44
		67	121	76	108	70	94	64	78	57	60	50
		62	101	83	88	76	73	69	60	60	51	51
	3,000	72	158	77	144	71	129	65	111	58	92	51
		67	134	86	121	80	105	73	87	66	67	58
		62	113	95	98	88	82	80	70	70	59	59
008	2,250	72	155	75	141	68	126	61	108	54	89	46
		67	130	80	116	73	101	66	83	59	64	51
		62	108	85	94	78	78	70	62	62	52	52
	3,000	72	179	86	164	80	146	72	126	64	103	56
		67	151	95	136	88	118	80	98	71	75	62
		62	126	103	110	95	92	86	76	76	64	64
	3,750	72	197	96	180	89	161	82	139	73	115	63
		67	168	108	151	100	131	92	109	82	84	72
		62	141	119	122	110	103	100	87	87	74	74
012	3,000	72	200	96	182	88	161	79	138	70	113	60
		67	168	104	150	96	130	86	107	76	83	66
		62	140	112	121	102	101	92	82	82	69	69
	4,000	72	228	111	208	102	185	93	159	83	130	71
		67	194	124	174	114	150	104	124	93	96	81
		62	162	135	141	124	119	113	99	99	84	84
	5,000	72	250	123	228	114	204	105	175	94	143	81
		67	214	140	192	130	166	119	138	107	106	94
		62	179	155	156	143	133	130	113	113	96	96
014	3,750	72	251	121	228	110	202	99	173	87	140	74
		67	210	129	187	118	161	106	133	94	102	81
		62	174	138	150	126	125	113	100	100	84	84
	5,000	72	289	139	263	128	233	116	200	103	162	88
		67	244	154	218	141	188	128	155	114	119	99
		62	203	167	176	153	146	138	121	121	102	102
	6,250	72	319	155	290	143	258	131	221	116	180	101
		67	271	174	242	161	209	147	172	132	133	115
		62	226	192	196	177	164	160	139	139	118	118
016	4,500	72	310	150	281	136	249	122	214	108	174	92
		67	260	160	231	145	199	131	165	116	127	100
		62	215	169	186	154	154	138	121	121	102	102
	6,000	72	361	175	329	161	292	145	250	128	205	110
		67	304	191	271	175	235	159	194	141	149	122
		62	254	206	220	189	183	170	149	149	125	125
	7,500	72	401	196	366	181	325	164	280	146	229	127
		67	340	218	304	201	263	183	218	164	167	143
		62	285	239	247	220	206	197	172	172	145	145
024	6,000	72	408	197	372	180	331	162	272	141	232	123
		67	344	213	307	195	266	176	220	156	169	135
		62	286	227	248	208	207	188	164	164	139	139
	8,000	72	470	228	429	210	382	191	329	170	269	147
		67	399	253	357	233	309	212	256	189	197	166
		62	333	275	290	254	242	230	202	202	170	170
	10,000	72	516	253	471	235	421	215	363	192	297	168
		67	440	287	395	266	343	244	284	219	220	193
		62	369	317	322	294	271	266	232	232	196	196

See Legend and Notes on page 30.

Performance data (cont)

40RM WITH HIGH CAPACITY COIL COOLING CAPACITIES — ENGLISH (cont)

UNIT 40RM (High Capacity 4 Row Coil)	EVAPORATOR AIR		COIL REFRIGERANT TEMP (F)									
	Airflow (Cfm)	Ewb (F)	30		35		40		45		50	
			TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
028	7,500	72	470	226	428	208	379	187	328	167	270	144
		67	395	246	354	227	307	205	255	183	197	159
		62	329	265	287	244	240	221	193	193	163	163
	10,000	72	535	260	487	240	434	219	376	196	310	171
		67	454	291	407	269	354	246	295	221	228	194
		62	380	320	332	296	279	268	235	235	199	199
	12,500	72	583	287	531	267	475	245	412	221	341	194
		67	499	329	448	306	390	282	325	255	252	225
		62	420	367	367	341	310	310	269	269	228	228
034	9,000	72	564	271	513	249	456	225	394	200	324	173
		67	476	296	425	272	368	246	306	220	236	191
		62	395	319	344	293	288	265	231	231	195	195
	12,500	72	642	312	584	288	521	263	451	235	372	205
		67	545	349	489	323	425	295	353	265	273	233
		62	456	383	398	355	334	322	281	281	238	238
	15,000	72	699	345	637	320	570	294	495	265	410	233
		67	598	394	537	367	468	338	390	306	303	270
		62	503	440	440	409	371	371	322	322	273	273

LEGEND

db — Dry-Bulb Temp (F)
Ewb — Entering Wet-Bulb Temp (F)
lwb — Leaving Wet-Bulb Temp (F)
SHC — Sensible Heat Capacity (1000 Btuh)
TC — Total Capacity (1000 Btuh)

NOTES:
1. Direct interpolation is permissible. Do not extrapolate.
2. Evaporator fan heat not deducted from ratings.
3. Ratings based on approximately 15 F superheat leaving coil.
4. Dashes indicate coil loading limits are exceeded.
5. Formulas:

$$\text{Leaving db} = \text{entering db} - \frac{\text{sensible heat capacity (Btuh)}}{1.1 \times \text{cfm}}$$

Leaving wb = wet-bulb temperature corresponding to enthalpy of air leaving coil (h_{lwb})

$$h_{lwb} = h_{ewb} - \frac{\text{total capacity (Btuh)}}{4.5 \times \text{cfm}}$$

where h_{ewb} = enthalpy of air entering coil

6. SHC is based on 80 F db temperature of air entering evaporator coil.

40RM WITH HIGH CAPACITY COIL COOLING CAPACITIES — SI

UNIT 40RM (High Capacity 4 Row Coil)	EVAPORATOR AIR		COIL REFRIGERANT TEMP (C)									
	Airflow (L/s)	Ewb (C)	−1		2		4		7		10	
			TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
007	850	22	36	17	33	16	29	14	25	13	21	11
		19	31	19	27	17	24	16	20	14	15	12
		17	25	20	22	18	18	16	14	14	12	12
	1130	22	42	20	38	19	34	17	30	15	24	13
		19	36	22	32	21	28	19	23	17	18	15
		17	30	24	26	22	22	20	18	18	15	15
	1420	22	46	23	42	21	38	19	33	17	27	15
		19	39	25	35	24	31	21	25	19	20	17
		17	33	28	29	26	24	23	20	20	17	17
008	1060	22	45	22	41	20	37	18	32	16	26	14
		19	38	23	34	21	30	19	24	17	19	15
		17	32	25	27	23	23	21	18	18	15	15
	1420	22	52	25	48	23	43	21	37	19	30	16
		19	44	28	40	26	35	23	29	21	22	18
		17	37	30	32	28	27	25	22	22	19	19
	1770	22	58	28	53	26	47	24	41	21	34	19
		19	49	32	44	29	38	27	32	24	25	21
		17	41	35	36	32	30	29	26	26	22	22
012	1420	22	58	28	53	26	47	23	41	21	33	18
		19	49	31	44	28	38	25	31	22	24	19
		17	41	33	35	30	30	27	24	24	20	20
	1890	22	67	33	61	30	54	27	47	24	38	21
		19	57	36	51	33	44	30	36	27	28	24
		17	47	40	41	36	35	33	29	29	25	25
	2360	22	73	36	67	33	60	31	51	27	42	24
		19	63	41	56	38	49	35	40	31	31	28
		17	52	45	46	42	39	38	33	33	28	28
014	1770	22	73	35	67	32	59	29	51	26	41	22
		19	62	38	55	35	47	31	39	28	30	24
		17	51	40	44	37	37	33	29	29	25	25
	2360	22	85	41	77	38	68	34	59	30	47	26
		19	72	45	64	41	55	38	45	33	35	29
		17	60	49	52	45	43	40	35	35	30	30
	2980	22	93	45	85	42	76	38	65	34	53	29
		19	79	51	71	47	61	43	50	39	39	34
		17	66	56	57	52	48	47	41	41	34	34
016	2120	22	91	44	82	40	73	36	63	32	51	27
		19	76	47	68	43	58	38	48	34	37	29
		17	63	50	55	45	45	41	36	36	30	30
	2830	22	106	51	96	47	86	43	73	37	60	32
		19	89	56	79	51	69	46	57	41	44	36
		17	74	60	65	55	54	50	44	44	37	37
	3540	22	118	57	107	53	95	48	82	43	67	37
		19	100	64	89	59	77	54	64	48	49	42
		17	84	70	72	65	60	58	50	50	42	42
024	2830	22	120	58	109	53	97	48	80	41	68	36
		19	101	62	90	57	78	52	64	46	50	40
		17	84	67	73	61	61	55	48	48	41	41
	3780	22	138	67	126	62	112	56	96	50	79	43
		19	117	74	105	68	91	62	75	56	58	49
		17	98	81	85	74	71	67	59	59	50	50
	4720	22	151	74	138	69	123	63	106	56	87	49
		19	129	84	116	78	100	71	83	64	64	57
		17	108	93	94	86	79	78	68	68	58	58

See Legend and Notes on page 32.

Performance data (cont)

40RM WITH HIGH CAPACITY COIL COOLING CAPACITIES — SI (cont)

UNIT 40RM (High Capacity 4 Row Coil)	EVAPORATOR AIR		COIL REFRIGERANT TEMP (C)									
	Airflow (L/s)	Ewb (C)	–1		2		4		7		10	
			TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
028	3540	22	138	66	125	61	111	55	96	49	79	42
		19	116	72	104	66	90	60	75	54	58	47
		17	96	78	84	72	70	65	57	57	48	48
	4720	22	157	76	143	70	127	64	110	57	91	50
		19	133	85	119	79	104	72	86	65	67	57
		17	111	94	97	87	82	79	69	69	58	58
	5900	22	171	84	156	78	139	72	121	65	100	57
		19	146	96	131	90	114	83	95	75	74	66
		17	123	107	107	100	91	91	79	79	67	67
034	4250	22	165	79	150	73	134	66	115	59	95	51
		19	139	87	124	80	108	72	90	64	69	56
		17	116	93	101	86	84	78	68	68	57	57
	5660	22	188	91	171	84	153	77	132	69	109	60
		19	160	102	143	95	124	87	104	78	80	68
		17	134	112	117	104	98	94	82	82	70	70
	7080	22	205	101	187	94	167	86	145	78	120	68
		19	175	116	157	108	137	99	114	90	89	79
		17	148	129	129	120	109	109	94	94	80	80

LEGEND

Edb — Entering Dry-Bulb
Ewb — Entering Wet-Bulb
Ldb — Leaving Dry-Bulb
Lwb — Leaving Wet-Bulb
SHC — Sensible Heat Capacity (kW)
TC — Total Capacity (kW)

NOTES:
1. Ratings based on approximately 8.3 C superheat leaving coil.
2. Direct interpolation is permissible. Do not extrapolate.
3. The SHC is based on 26.7 C db temperature of air entering the unit. At any other temperature, correct the SHC reading from the table of cooling capacities.
4. Gross capacities shown do not include a deduction for evaporator-fan motor heat.
5. Formulas (cooling):

$$t_{ldb} = t_{edb} - \frac{\text{sensible heat capacity (kW)}}{1.23 \times 10^{-3} \times (L/s)}$$

t_{lwb} = wet-bulb temperature corresponding to enthalpy of air leaving coil (h_{lwb})

$$h_{lwb} = h_{ewb} - \frac{\text{total capacity (kW)}}{1.20 \times 10^{-3} \times (L/s)}$$

where h_{ewb} = enthalpy of air entering coil (kJ/kg)

40RMQ COOLING CAPACITIES — ENGLISH

UNIT 40RMQ	EVAPORATOR AIR		COIL REFRIGERANT TEMP (F)									
	Airflow (Cfm)	Ewb (F)	30		35		40		45		50	
			TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
008	2,250	72	144	69	130	63	116	57	99	50	80	43
		67	120	76	106	70	92	63	76	56	59	50
		62	100	83	87	76	71	69	57	57	49	49
	3,000	72	169	81	151	75	135	68	114	61	94	53
		67	140	92	124	85	108	77	89	69	69	62
		62	118	101	102	94	84	84	70	70	59	59
	3,750	72	187	92	168	85	150	78	127	70	104	61
		67	157	106	140	97	120	89	100	81	77	72
		62	132	118	112	108	94	94	80	80	68	68
012	3,000	72	193	92	174	81	154	76	132	67	108	58
		67	161	102	143	93	123	85	102	76	79	67
		62	134	111	116	102	96	93	78	78	66	66
	4,000	72	223	108	201	99	179	91	153	81	125	71
		67	186	122	166	113	143	104	119	93	92	82
		62	157	136	136	126	113	113	95	95	80	80
	5,000	72	246	122	222	112	198	103	169	93	138	81
		67	207	140	185	131	159	120	132	109	102	97
		62	175	159	149	145	126	126	109	109	92	92
016	4,500	72	310	147	282	135	250	122	212	107	175	93
		67	258	161	231	148	199	135	165	120	126	105
		62	213	175	185	161	154	146	122	122	102	102
	6,000	72	366	176	331	161	293	146	248	130	205	114
		67	304	196	272	182	234	166	194	149	149	132
		62	254	217	219	201	181	181	148	148	125	125
	7,500	72	409	199	371	185	327	168	277	150	228	132
		67	339	227	303	211	263	194	217	176	168	156
		62	285	255	244	236	205	205	172	172	146	146
024	6,000	72	408	197	372	180	331	162	272	141	232	123
		67	344	213	307	195	266	176	220	156	169	135
		62	286	227	248	208	207	188	164	164	139	139
	8,000	72	470	228	429	210	382	191	329	170	269	147
		67	399	253	357	233	309	212	256	189	197	166
		62	333	275	290	254	242	230	202	202	170	170
	10,000	72	516	253	471	235	421	215	363	192	297	168
		67	440	287	395	266	343	244	284	219	220	193
		62	369	317	322	294	271	266	232	232	196	196
028	7,500	72	470	226	428	208	379	187	328	167	270	144
		67	395	246	354	227	307	205	255	183	197	159
		62	329	265	287	244	240	221	193	193	163	163
	10,000	72	535	260	487	240	434	219	376	196	310	171
		67	454	291	407	269	354	246	295	221	228	194
		62	380	320	332	296	279	268	235	235	199	199
	12,500	72	583	287	531	267	475	245	412	221	341	194
		67	499	329	448	306	390	282	325	255	252	225
		62	420	367	367	341	310	310	269	269	228	228

LEGEND

db — Dry-Bulb Temp (F)
Ewb — Entering Wet-Bulb Temp (F)
lwb — Leaving Wet-Bulb Temp (F)
SHC — Sensible Heat Capacity (1000 Btuh)
TC — Total Capacity (1000 Btuh)

NOTES:
1. Direct interpolation is permissible. Do not extrapolate.
2. Evaporator fan heat not deducted from ratings.
3. Ratings based on approximately 15 F superheat leaving coil.
4. Formulas:

$$\text{Leaving db} = \text{entering db} - \frac{\text{sensible heat capacity (Btuh)}}{1.1 \times \text{cfm}}$$

Leaving wb = wet-bulb temperature corresponding to enthalpy of air leaving coil (h_{lwb})

$$h_{lwb} = h_{ewb} - \frac{\text{total capacity (Btuh)}}{4.5 \times \text{cfm}}$$

where h_{ewb} = enthalpy of air entering coil

5. SHC is based on 80 F db temperature of air entering evaporator coil.

Performance data (cont)

40RMQ COOLING CAPACITIES — SI

UNIT 40RMQ	EVAPORATOR AIR		COIL REFRIGERANT TEMP (C)									
	Airflow (L/s)	Ewb (C)	–1		2		4		7		10	
			TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
008	1000	22	42.12	20.58	37.29	18.52	34.07	17.16	27.61	14.46	24.37	13.18
		19	34.64	23.22	30.05	21.01	26.97	19.55	20.80	16.74	17.71	15.49
		16	28.76	26.41	24.26	23.38	21.25	21.25	15.17	15.17	12.10	12.10
	1400	22	49.07	24.22	43.29	22.02	39.43	20.56	31.71	17.72	27.85	16.48
		19	40.52	27.88	35.13	25.38	31.54	23.74	24.33	20.67	20.71	19.62
		16	33.30	32.38	28.48	28.48	25.25	25.25	18.76	18.76	15.50	15.50
	1800	22	54.60	27.31	48.17	24.95	43.89	23.40	35.32	20.41	31.04	19.32
		19	45.87	31.43	39.68	28.96	35.55	27.35	27.28	24.47	23.14	23.14
		16	36.21	36.21	31.35	31.35	28.10	28.10	21.59	21.59	18.33	18.33
012	1450	22	56.46	26.00	49.91	23.80	45.53	22.33	36.77	19.47	32.38	18.13
		19	46.83	30.42	40.53	27.76	36.32	26.01	27.87	22.64	23.64	21.21
		16	38.11	34.82	32.39	31.04	28.56	28.55	20.85	20.85	16.97	16.97
	1900	22	65.14	31.89	57.64	29.05	52.64	27.17	42.62	23.47	37.61	21.73
		19	54.26	36.83	47.03	33.70	42.19	31.64	32.51	27.68	27.65	26.01
		16	44.18	43.13	37.99	37.99	33.85	33.85	25.55	25.55	21.37	21.37
	2350	22	71.98	35.85	63.67	32.86	58.13	30.89	47.05	27.03	41.51	25.31
		19	60.62	42.44	52.41	39.02	46.93	36.77	35.97	32.55	30.49	30.49
		16	47.82	47.82	41.72	41.72	37.66	37.66	29.52	29.52	25.44	25.44
016	2100	22	91.80	44.17	80.87	39.73	73.57	36.78	58.97	30.93	51.65	28.08
		19	75.66	48.99	65.51	44.55	58.73	41.62	45.13	35.92	38.31	33.27
		16	61.18	56.01	51.67	49.75	45.31	45.31	32.51	32.51	26.06	26.06
	2800	22	107.87	52.14	94.89	47.27	86.24	44.04	68.91	37.79	60.23	35.23
		19	89.13	59.53	77.11	54.40	69.08	51.05	53.00	44.90	44.93	43.44
		16	71.93	69.52	61.19	61.19	54.01	54.01	39.59	39.59	32.34	32.34
	3500	22	121.08	59.76	106.35	54.26	96.52	50.62	76.87	43.59	67.04	63.63
		19	99.24	68.38	85.93	62.96	77.04	59.43	59.26	53.09	50.35	50.35
		16	79.29	79.29	68.32	68.32	61.00	61.00	46.33	46.33	38.98	38.98
024	2830	22	119.66	57.62	109.11	52.85	96.93	47.60	79.71	41.42	68.10	36.01
		19	100.87	62.34	90.05	57.12	77.97	51.58	64.40	45.68	49.61	39.55
		16	83.70	66.60	72.62	60.97	60.63	55.06	48.10	48.10	40.60	40.60
	3780	22	137.63	66.72	125.62	61.62	111.88	55.96	96.26	49.70	78.71	43.02
		19	116.80	74.01	104.59	68.36	90.64	62.19	74.91	55.51	57.80	48.52
		16	97.53	80.63	84.84	74.32	70.97	67.36	59.10	59.10	49.88	49.88
	4720	22	151.09	74.13	138.13	68.84	123.42	63.02	106.30	56.30	87.05	49.10
		19	129.03	83.98	115.85	78.05	100.47	71.41	83.21	64.21	64.38	56.52
		16	108.25	92.89	94.40	86.06	79.39	77.97	68.09	68.09	57.57	57.57
028	3540	22	137.64	66.24	125.46	60.87	111.15	54.86	96.13	48.82	79.18	42.16
		19	115.75	72.13	103.67	66.40	89.96	60.19	74.75	53.64	57.78	46.64
		16	96.47	77.77	83.99	71.53	70.27	64.77	56.60	56.60	47.82	47.82
	4720	22	156.70	76.14	142.75	70.35	127.14	64.09	110.11	57.39	90.94	50.10
		19	133.07	85.25	119.28	78.93	103.69	72.12	86.30	64.80	66.74	56.81
		16	111.45	93.61	97.19	86.59	81.61	78.64	68.76	68.76	58.21	58.21
	5900	22	170.83	84.21	155.57	78.16	139.25	71.82	120.85	64.69	100.04	56.94
		19	146.07	96.33	131.16	89.71	114.35	82.51	95.27	74.61	73.92	65.87
		16	122.94	107.43	107.46	99.80	90.70	90.70	78.70	78.70	66.76	66.76

LEGEND

Edb — Entering Dry-Bulb
Ewb — Entering Wet-Bulb
Ldb — Leaving Dry-Bulb
Lwb — Leaving Wet-Bulb
SHC — Sensible Heat Capacity (kW)
TC — Total Capacity (kW)

NOTES:
1. Ratings based on approximately 8.3 C superheat leaving coil.
2. Direct interpolation is permissible. Do not extrapolate.
3. The SHC is based on 26.7 C db temperature of air entering the unit.
4. Gross capacities shown do not include a deduction for evaporator-fan motor heat.
5. Formulas (cooling):

$$t_{ldb} = t_{edb} - \frac{\text{sensible heat capacity (kW)}}{1.23 \times 10^{-3} \times (L/s)}$$

t_{lwb} = wet-bulb temperature corresponding to enthalpy of air leaving coil (h_{lwb})

$$h_{lwb} = h_{ewb} - \frac{\text{total capacity (kW)}}{1.20 \times 10^{-3} \times (L/s)}$$

where h_{ewb} = enthalpy of air entering coil (kJ/kg)

HYDRONIC HEATING CAPACITIES — ENGLISH

UNIT	AIRFLOW (Cfm)	1-ROW STEAM*		2-ROW HOT WATER COIL†			
		Cap.	Ldb	Cap.	Ldb	Water Flow (Gpm)	PD
40RM 007	1,800	146	134	156.0	140	15.6	3.4
	2,400	173	126	183.0	131	18.3	4.3
	3,000	209	123	206.0	124	20.6	5.2
40RM 40RMQ 40RMS 008	2,250	168	129	174.0	133	17.4	4.0
	3,000	209	123	206.0	124	20.6	5.2
	3,750	240	117	238.0	118	23.8	6.5
40RMS 010	2,550	183	125	199.0	132	19.9	4.5
	3,400	229	121	233.0	123	23.3	5.7
	4,250	254	114	271.0	119	27.1	7.2
40RM 40RMS 40RMQ 012	3,000	209	123	299.0	152	29.9	5.0
	4,000	243	115	275.0	124	27.5	6.6
	5,000	279	111	316.0	119	31.6	8.2
40RM 40RMS 014	3,750	370	150	362.0	149	36.2	4.2
	5,000	425	137	409.0	136	40.9	5.1
	6,250	465	128	456.0	128	45.6	6.0
40RM 40RMQ 40RMS 016	4,500	402	141	412.0	145	41.2	4.5
	6,000	458	129	471.0	133	47.1	5.5
	7,500	479	118	529.0	125	52.9	6.6
40RM 40RMQ 40RMS 024	6,000	458	129	506.0	138	50.6	5.1
	8,000	487	115	584.0	128	58.4	6.3
	10,000	499	105	652.0	120	65.2	7.5
40RM 40RMQ 40RMS 028	7,500	511	122	649.0	140	64.9	5.7
	10,000	575	112	752.0	130	75.2	7.1
	12,500	626	106	842.0	122	84.2	8.5
40RM 40RMS 034	9,000	560	117	735.0	136	73.5	6.2
	12,000	621	107	850.0	126	85.0	7.8
	15,000	670	101	950.0	119	95.0	9.3

LEGEND

Cap. — Capacity (Btuh in thousands)
Ldb — Leaving-Air Dry-Bulb Temp (F)
PD — Pressure Drop (ft water)

*Based on 5 psig steam, 60 F entering-air temperature. All steam coils are non-freeze type.
†Based on 200 F entering water, 20 F water temperature drop, 60 F entering-air temperature.

NOTES:
1. Maximum operating limits for heating coils: 20 psig at 260 F.
2. Leaving db = ent db (F) + $\frac{\text{Capacity (Btuh)}}{1.1 \times \text{cfm}}$
3. See Heating Correction Factors table.

HYDRONIC HEATING CAPACITIES — SI

UNIT	AIRFLOW (L/s)	1-ROW STEAM*		2-ROW HOT WATER COIL†			
		Cap.	Ldb	Cap.	Ldb	Water Flow (L/s)	PD
40RM 007	850	43	57	46	59	1.0	10.2
	1150	53	53	53	53	1.2	12.8
	1450	62	51	61	50	1.3	16.0
40RM 40RMQ 40RMS 008	1000	48	55	50	56	1.1	11.5
	1400	59	50	60	50	1.3	15.3
	1800	71	47	70	47	1.5	19.5
40RMS 010	1200	54	52	58	55	1.3	13.4
	1600	64	48	69	50	1.5	17.3
	2000	74	46	79	48	1.7	21.4
40RM 40RMS 40RMQ 012	1450	62	50	88	65	1.9	15.0
	1900	72	46	90	54	2.0	24.7
	2350	82	44	93	48	2.0	24.5
40RM 40RMS 014	1750	108	66	106	65	2.3	12.4
	2350	122	58	120	57	2.6	15.2
	2950	136	53	134	52	2.9	17.9
40RM 40RMQ 40RMS 016	2100	117	61	120	62	2.6	13.3
	2800	129	53	137	55	3.0	16.2
	3500	140	48	154	51	3.3	19.5
40RM 40RMQ 40RMS 024	2900	135	53	150	58	3.3	15.6
	3800	140	46	170	52	3.7	18.6
	4700	146	41	191	49	4.1	22.3
40RM 40RMQ 40RMS 028	3500	149	50	189	60	4.1	16.9
	4700	166	44	218	53	4.7	20.8
	5900	183	41	247	50	5.4	25.4
40RM 40RMS 034	4250	164	47	215	57	4.7	18.5
	5650	180	41	247	51	5.4	22.8
	7050	196	38	278	48	6.0	27.7

LEGEND

Cap. — Capacity (kW)
Ldb — Leaving-Air Dry-Bulb Temp (C)
PD — Pressure Drop (kPa)

*Based on 34.5 kPag steam, 15.6 C entering-air temperature. All steam coils are non-freeze type.
†Based on 93.3 C entering water temperature, 11.1 C water temperature drop, 15.6 C entering-air temperature.

NOTES:
1. Maximum operating limits for heating coils: 138 kPag at 126.7 C.
2. Leaving db = ent db (C) + $\frac{\text{Capacity (kW)}}{1.23 \times 10^{-3} \times \text{L/s}}$
3. See Heating Correction Factors table.

HEATING CORRECTION FACTORS — ENGLISH

HOT WATER COIL						
Water Temp Drop (F)	Ent Water Temp (F)	Entering-Air Temp (F)				
		40	50	60	70	80
10	140	0.72	0.64	0.57	0.49	0.41
	160	0.89	0.81	0.74	0.66	0.58
	180	1.06	0.98	0.90	0.83	0.75
	200	1.22	1.15	1.07	1.00	0.92
	220	1.39	1.32	1.24	1.17	1.09
20	140	0.64	0.57	0.49	0.41	0.33
	160	0.81	0.74	0.66	0.58	0.51
	180	0.98	0.91	0.83	0.75	0.68
	200	1.15	1.08	1.00	0.93	0.85
	220	1.32	1.25	1.17	1.10	1.02
30	140	0.56	0.49	0.41	0.33	0.24
	160	0.74	0.66	0.58	0.51	0.43
	180	0.91	0.83	0.76	0.68	0.60
	200	1.08	1.00	0.93	0.85	0.78
	220	1.25	1.18	1.10	1.03	0.95

STEAM COIL					
Steam Pressure (psig)	Entering-Air Temp (F)				
	40	50	60	70	80
0	1.06	0.98	0.91	0.85	0.78
2	1.09	1.02	0.95	0.89	0.82
5	1.13	1.06	1.00	0.93	0.87

NOTE: Multiply capacity given in the Hydronic Heating Capacities table by the correction factor for conditions at which unit is actually operating. Correct leaving-air temperature using formula in Note 2 of Hydronic Heating Capacities table.

HEATING CORRECTION FACTORS — SI

HOT WATER COIL						
Water Temp Drop (C)	Ent Water Temp (C)	Entering-Air Temp (C)				
		4	10	16	20	25
5	60	0.72	0.64	0.55	0.50	0.43
	70	0.87	0.79	0.71	0.65	0.58
	80	1.02	0.94	0.86	0.80	0.73
	90	1.17	1.09	1.01	0.95	0.89
	100	1.32	1.24	1.16	1.10	1.04
11	60	0.65	0.56	0.48	0.42	0.35
	70	0.80	0.72	0.63	0.58	0.51
	80	0.95	0.87	0.79	0.73	0.66
	90	1.10	1.02	0.94	0.89	0.82
	100	1.26	1.18	1.09	1.04	0.97
16	60	0.56	0.48	0.39	0.33	0.26
	70	0.72	0.63	0.55	0.49	0.42
	80	0.87	0.79	0.70	0.65	0.58
	90	1.02	0.94	0.86	0.81	0.74
	100	1.18	1.10	1.02	0.97	0.90

STEAM COIL					
Steam Pressure (kPag)	Entering-Air Temp (C)				
	4	10	16	20	25
0	1.07	0.99	0.91	0.86	0.80
14	1.10	1.02	0.95	0.90	0.84
35	1.14	1.07	0.99	0.95	0.89

NOTE: Multiply capacity given in the Hydronic Heating Capacities table by the correction factor for conditions at which unit is actually operating. Correct leaving-air temperature using formula in Note 2 of Hydronic Heating Capacities table.

Performance data (cont)

FAN PERFORMANCE DATA — 0.0-1.2 in. wg ESP — 60 Hz, ENGLISH

UNIT	AIRFLOW (Cfm)	EXTERNAL STATIC PRESSURE (in. wg)													
		0.0		0.2		0.4		0.6		0.8		1.0		1.2	
		Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp
40RM 007*	1,800	399	0.19	454	0.24	548	0.35	634	0.47	713	0.60	785	0.74	850	0.89
	2,100	446	0.28	497	0.34	583	0.46	660	0.59	733	0.73	802	0.88	867	1.05
	2,400	498	0.40	541	0.47	622	0.60	693	0.74	760	0.89	824	1.05	885	1.22
	2,700	544	0.55	588	0.63	663	0.78	730	0.93	792	1.09	851	1.26	909	1.44
	3,000	594	0.73	635	0.82	707	0.99	770	1.15	828	1.32	883	1.50	937	1.69
40RM* 40RMQ 40RMS 008	2,250	273	0.08	493	0.37	580	0.49	656	0.62	727	0.76	794	0.92	858	1.08
	2,600	322	0.15	540	0.52	622	0.66	693	0.81	757	0.96	819	1.12	878	1.29
	3,000	552	0.65	595	0.73	673	0.91	740	1.07	800	1.24	856	1.41	910	1.60
	3,400	615	0.91	653	1.01	726	1.21	789	1.40	846	1.59	899	1.78	950	1.97
	3,750	671	1.20	706	1.31	773	1.53	834	1.74	889	1.95	940	2.16	988	2.37
40RMS 010	2,550	396	0.42	502	0.54	586	0.65	658	0.76	722	0.87	780	0.97	833	1.08
	2,975	462	0.60	556	0.72	634	0.84	701	0.95	762	1.06	818	1.18	870	1.29
	3,400	527	0.80	612	0.93	684	1.06	748	1.18	806	1.30	860	1.41	910	1.53
	3,825	593	1.05	670	1.18	737	1.31	797	1.44	852	1.56	904	1.68	952	1.80
	4,250	659	1.33	729	1.47	791	1.60	848	1.73	901	1.86	950	1.98	997	2.11
40RM* 40RMS 012	3,000	399	0.29	573	0.69	654	0.86	722	1.03	784	1.19	841	1.37	896	1.55
	3,500	604	0.92	641	1.02	714	1.22	780	1.42	838	1.61	892	1.81	942	2.01
	4,000	680	1.33	713	1.45	778	1.68	839	1.91	896	2.14	947	2.36	995	2.58
	4,500	756	1.86	787	1.99	845	2.26	901	2.52	955	2.78	1005	3.03	1051	3.28
	5,000	834	2.51	861	2.67	914	2.96	966	3.25	1016	3.54	1064	3.82	1109	4.11
40RMQ 012	3,000	421	0.35	592	0.73	670	0.90	737	1.06	797	1.23	854	1.41	908	1.59
	3,500	626	0.98	664	1.08	735	1.28	798	1.48	855	1.67	908	1.87	958	2.07
	4,000	706	1.42	738	1.54	803	1.77	862	2.00	917	2.23	967	2.45	1014	2.67
	4,500	786	1.99	815	2.12	873	2.39	929	2.65	980	2.90	1028	3.16	1073	3.41
	5,000	867	2.70	893	2.84	946	3.14	997	3.43	1046	3.72	1092	4.00	1135	4.28
40RM* 40RMS 014	3,750	394	0.40	453	0.52	558	0.80	643	1.10	717	1.39	785	1.71	848	2.04
	4,300	436	0.57	487	0.70	586	1.00	670	1.34	742	1.67	806	2.01	867	2.36
	5,000	492	0.86	535	0.99	623	1.31	704	1.69	775	2.08	838	2.47	896	2.86
	5,700	550	1.23	587	1.37	664	1.71	740	2.11	809	2.55	872	2.99	929	3.43
	6,250	596	1.59	630	1.74	700	2.09	770	2.51	837	2.97	899	3.45	955	3.94
40RM* 40RMS 016	4,500	428	0.59	475	0.70	570	0.99	656	1.33	730	1.68	796	2.02	856	2.38
	5,300	488	0.92	528	1.04	609	1.34	689	1.71	762	2.11	827	2.51	886	2.92
	6,000	542	1.29	578	1.43	649	1.74	721	2.11	791	2.55	855	3.00	914	3.46
	6,800	604	1.83	637	1.99	700	2.32	763	2.70	826	3.15	888	3.64	946	4.15
	7,500	660	2.42	690	2.59	747	2.95	804	3.34	861	3.79	919	4.29	975	4.83
40RMQ 016	4,500	437	0.61	483	0.72	576	1.01	660	1.35	732	1.69	797	2.03	856	2.38
	5,300	499	0.95	538	1.07	617	1.37	696	1.74	767	2.13	830	2.53	888	2.94
	6,000	555	1.34	590	1.48	659	1.79	730	2.17	798	2.59	860	3.04	918	3.49
	6,800	620	1.91	651	2.06	712	2.39	774	2.78	836	3.22	896	3.71	952	4.21
	7,500	677	2.52	706	2.69	761	3.04	817	3.44	873	3.89	929	4.39	984	4.93
40RM* 40RMS 024	6,000	532	1.25	569	1.39	639	1.69	711	2.06	781	2.48	846	2.93	905	3.39
	7,000	608	1.93	641	2.09	702	2.42	763	2.80	824	3.23	885	3.71	943	4.23
	8,000	686	2.83	716	3.01	770	3.38	823	3.77	876	4.21	930	4.70	983	5.24
	9,000	764	3.97	791	4.18	841	4.59	888	5.02	935	5.47	982	5.96	1030	6.51
	10,000	843	5.38	868	5.62	914	6.09	957	6.55	1000	7.02	1042	7.53	1084	8.08
40RMQ 024	6,000	542	1.29	577	1.42	646	1.72	716	2.09	785	2.51	849	2.95	907	3.40
	7,000	620	1.99	652	2.15	711	2.48	771	2.85	831	3.28	890	3.76	947	4.27
	8,000	700	2.92	728	3.10	781	3.46	833	3.85	885	4.29	938	4.78	990	5.32
	9,000	781	4.10	806	4.30	854	4.71	900	5.13	946	5.58	993	6.08	1039	6.62
	10,000	862	5.56	885	5.79	929	6.24	971	6.70	1012	7.18	1054	7.69	1096	8.24
40RM* 40RMS 028	7,500	456	1.29	490	1.47	556	1.85	621	2.25	678	2.64	729	3.06	778	3.60
	8,750	521	1.98	551	2.18	608	2.61	664	3.07	720	3.53	770	3.99	816	4.45
	10,000	587	2.88	614	3.11	664	3.59	714	4.09	763	4.62	812	5.15	857	5.68
	11,250	653	4.03	678	4.29	724	4.82	768	5.37	812	5.95	856	6.54	899	7.14
	12,500	720	5.46	743	5.75	785	6.33	825	6.93	865	7.55	904	8.20	944	8.86
40RMQ 028	7,500	476	1.39	510	1.58	579	1.99	644	2.40	701	2.81	752	3.29	804	3.96
	8,750	545	2.14	574	2.35	633	2.81	691	3.29	747	3.77	797	4.25	842	4.76
	10,000	615	3.12	641	3.36	692	3.87	743	4.41	794	4.96	843	5.51	888	6.05
	11,250	685	4.37	709	4.64	754	5.20	800	5.79	845	6.40	891	7.02	935	7.64
	12,500	756	5.92	778	6.22	819	6.83	860	7.47	901	8.14	942	8.83	983	9.52
40RM* 40RMS 034	9,000	521	1.99	550	2.25	616	2.77	676	3.23	731	3.72	782	4.20	829	4.70
	10,500	596	3.16	623	3.40	672	3.89	720	4.40	767	4.94	814	5.50	859	6.05
	12,000	673	4.63	698	4.90	743	5.45	785	6.02	826	6.62	867	7.23	908	7.87
	13,500	751	6.51	773	6.82	815	7.44	853	8.06	890	8.71	927	9.38	963	10.07
	15,000	829	8.84	850	9.19	888	9.88	924	10.57	958	11.27	991	11.99	1024	12.73

*With standard 3-row coil.

See Legend and Notes on page 52.

FAN PERFORMANCE DATA — 1.4-2.4 in. wg ESP — 60 Hz, ENGLISH

UNIT	AIRFLOW (Cfm)	EXTERNAL STATIC PRESSURE (in. wg)											
		1.4		1.6		1.8		2.0		2.2		2.4	
		Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp
40RM* 007	1,800	910	1.04	965	1.20	1016	1.36	1065	1.52	**1111**	**1.69**	**1155**	**1.86**
	2,100	927	1.21	983	1.38	1035	1.56	1084	1.74	**1131**	**1.92**	**1175**	**2.11**
	2,400	944	1.41	999	1.59	1052	1.78	**1101**	**1.98**	**1149**	**2.18**	**1193**	**2.38**
	2,700	964	1.63	1018	1.82	1069	2.03	**1118**	**2.24**	**1165**	**2.45**	—	—
	3,000	989	1.89	1039	2.10	**1089**	**2.31**	**1136**	**2.53**	**1183**	**2.76**	—	—
40RM* 40RMQ 40RMS 008	2,250	918	1.26	975	1.43	1029	1.62	1079	1.80	1126	1.99	1172	2.18
	2,600	936	1.48	991	1.67	1044	1.87	1094	2.07	1142	2.28	1188	2.49
	3,000	963	1.79	1014	1.99	1064	2.20	1113	2.42	1159	2.64	—	—
	3,400	998	2.18	1045	2.39	1092	2.61	1137	2.83	1182	3.07	—	—
	3,750	1034	2.58	1078	2.80	1122	3.03	1164	3.27	—	—	—	—
40RMS 010	2,550	884	1.18	931	1.29	975	1.40	1018	1.50	1059	1.61	—	—
	2,975	919	1.40	965	1.51	1009	1.62	1050	1.73	1090	1.84	—	—
	3,400	957	1.64	1002	1.76	1044	1.87	1085	1.98	1124	2.10	—	—
	3,825	998	1.92	1041	2.04	1082	2.16	1122	2.27	1160	2.39	—	—
	4,250	1041	2.23	1083	2.35	1123	2.48	1161	2.60	1199	2.72	—	—
40RM* 40RMS 012	3,000	949	1.74	1000	1.93	1050	2.14	1099	2.36	1147	2.58	1192	2.81
	3,500	990	2.21	1037	2.42	1083	2.64	1128	2.86	1172	3.10	—	—
	4,000	1040	2.80	1084	3.03	1126	3.26	1167	3.50	—	—	—	—
	4,500	1094	3.53	1136	3.78	1176	4.03	—	—	—	—	—	—
	5,000	1151	4.39	1191	4.66	—	—	—	—	—	—	—	—
40RMQ 012	3,000	961	1.78	1012	1.98	1062	2.19	1111	2.41	1158	2.64	—	—
	3,500	1005	2.27	1052	2.49	1098	2.71	1142	2.94	1186	3.18	—	—
	4,000	1058	2.90	1101	3.13	1143	3.36	1184	3.60	—	—	—	—
	4,500	1116	3.66	1157	3.91	1196	4.16	—	—	—	—	—	—
	5,000	1176	4.56	—	—	—	—	—	—	—	—	—	—
40RM* 40RMS 014	3,750	909	2.37	968	2.74	1026	3.12	1080	3.51	**1131**	**3.92**	**1181**	**4.32**
	4,300	925	2.73	980	3.11	1034	3.52	1084	3.92	**1135**	**4.35**	**1184**	**4.78**
	5,000	950	3.26	1002	3.67	1052	4.09	**1101**	**4.53**	**1148**	**4.98**	**1190**	**5.44**
	5,700	981	3.88	1031	4.33	1079	4.79	**1125**	**5.25**	**1169**	**5.73**	—	—
	6,250	1007	4.42	1057	4.91	**1103**	**5.40**	**1148**	**5.90**	**1191**	**6.40**	—	—
40RM* 40RMS 016	4,500	912	2.75	967	3.13	1019	3.52	1070	3.92	1120	4.35	1168	4.79
	5,300	940	3.33	992	3.75	1041	4.18	1088	4.61	1134	5.06	**1179**	**5.52**
	6,000	968	3.92	1018	4.38	1066	4.85	1112	5.32	1156	5.80	**1198**	**6.29**
	6,800	1000	4.67	1050	5.19	1097	5.71	1142	6.23	**1185**	**6.76**	—	—
	7,500	1028	5.39	1078	5.97	1125	6.54	1170	7.11	—	—	—	—
40RMQ 016	4,500	912	2.75	967	3.12	1019	3.52	1070	3.92	1120	4.35	1168	4.79
	5,300	942	3.34	992	3.76	1041	4.18	1088	4.61	1134	5.06	**1179**	**5.52**
	6,000	971	3.95	1020	4.40	1067	4.86	1112	5.33	1156	5.81	**1198**	**6.29**
	6,800	1005	4.72	1054	5.23	1101	5.75	1145	6.27	**1187**	**6.79**	—	—
	7,500	1036	5.48	1084	6.04	1131	6.61	**1174**	**7.17**	—	—	—	—
40RM* 40RMS 024	6,000	954	3.83	1005	4.27	1052	4.72	1098	5.22	1142	5.67	—	—
	7,000	990	4.74	1040	5.24	1090	5.80	1135	6.30	1176	6.84	—	—
	8,000	1028	5.79	1078	6.38	1130	7.00	1173	7.60	—	—	—	—
	9,000	1073	7.11	1120	7.72	1169	8.37	—	—	—	—	—	—
	10,000	1126	8.75	1166	9.37	—	—	—	—	—	—	—	—
40RMQ 024	6,000	961	3.86	1011	4.31	1058	4.77	1104	5.24	1147	5.71	—	—
	7,000	1000	4.79	1050	5.32	1097	5.85	1142	6.38	1184	6.91	—	—
	8,000	1041	5.88	1090	6.47	1137	7.07	1181	7.67	—	—	—	—
	9,000	1086	7.21	1133	7.82	1178	8.47	—	—	—	—	—	—
	10,000	1138	8.83	1180	9.46	—	—	—	—	—	—	—	—
40RM* 40RMS 028	7,500	831	4.41	870	5.10	913	5.90	950	6.88	985	7.70	—	—
	8,750	859	4.97	901	5.59	944	6.42	980	7.20	1020	8.10	—	—
	10,000	900	6.20	939	6.74	976	7.33	1013	8.00	1050	8.82	—	—
	11,250	941	7.73	980	8.32	1017	8.90	1052	9.51	**1086**	**10.16**	—	—
	12,500	984	9.53	1022	10.19	1058	10.84	**1093**	**11.49**	—	—	—	—
40RMQ 028	7,500	874	5.33	897	5.91	940	6.80	990	7.50	—	—	—	—
	8,750	886	5.36	930	6.13	982	7.32	1020	8.10	—	—	—	—
	10,000	930	6.60	969	7.20	1007	7.89	1045	8.71	—	—	—	—
	11,250	976	8.25	1014	8.86	1051	9.49	**1086**	**10.17**	—	—	—	—
	12,500	1023	10.20	1061	10.88	**1097**	**11.56**	—	—	—	—	—	—
40RM* 40RMS 034	9,000	866	5.20	899	5.85	950	6.65	989	7.38	1029	8.32	**1077**	**9.74**
	10,500	902	6.60	942	7.14	980	7.70	1016	8.31	1051	8.99	**1085**	**9.77**
	12,000	949	8.50	988	9.14	1026	9.76	1062	10.38	**1095**	**11.01**	—	—
	13,500	1000	10.78	1036	11.49	1073	12.21	—	—	—	—	—	—
	15,000	1057	13.49	**1090**	**14.28**	—	—	—	—	—	—	—	—

*With standard 3-row coil.

See Legend and Notes on page 52.

Performance data (cont)

FAN PERFORMANCE DATA — 0.0-1.2 in. wg ESP — 50 Hz, ENGLISH

UNIT	AIRFLOW (Cfm)	EXTERNAL STATIC PRESSURE (in. wg)													
		0.0		0.2		0.4		0.6		0.8		1.0		1.2	
		Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp
40RM 007*	1,800	399	0.19	454	0.24	548	0.35	634	0.47	713	0.60	785	0.74	850	0.89
	2,100	446	0.28	497	0.34	583	0.46	660	0.59	733	0.73	802	0.88	867	1.05
	2,400	498	0.40	541	0.47	622	0.60	693	0.74	760	0.89	824	1.05	885	1.22
	2,700	544	0.55	588	0.63	663	0.78	730	0.93	792	1.09	851	1.26	909	1.44
	3,000	594	0.73	635	0.82	707	0.99	770	1.15	828	1.32	883	1.50	937	1.69
40RM* 40RMQ 40RMS 008	2,250	273	0.08	493	0.37	580	0.49	656	0.62	727	0.76	794	0.92	858	1.08
	2,600	322	0.15	540	0.52	622	0.66	693	0.81	757	0.96	819	1.12	878	1.29
	3,000	552	0.65	595	0.73	673	0.91	740	1.07	800	1.24	856	1.41	910	1.60
	3,400	615	0.91	653	1.01	726	1.21	789	1.40	846	1.59	899	1.78	950	1.97
	3,750	671	1.20	706	1.31	773	1.53	834	1.74	889	1.95	940	2.16	988	2.37
40RMS 010	2,550	396	0.42	502	0.54	586	0.65	658	0.76	722	0.87	780	0.97	833	1.08
	2,975	462	0.60	556	0.72	634	0.84	701	0.95	762	1.06	818	1.18	870	1.29
	3,400	527	0.80	612	0.93	684	1.06	748	1.18	806	1.30	860	1.41	910	1.53
	3,825	593	1.05	670	1.18	737	1.31	797	1.44	852	1.56	904	1.68	952	1.80
	4,250	659	1.33	729	1.47	791	1.60	848	1.73	901	1.86	950	1.98	997	2.11
40RM* 40RMS 012	3,000	399	0.29	573	0.69	654	0.86	722	1.03	784	1.19	841	1.37	896	1.55
	3,500	604	0.92	641	1.02	714	1.22	780	1.42	838	1.61	892	1.81	942	2.01
	4,000	680	1.33	713	1.45	778	1.68	839	1.91	896	2.14	947	2.36	995	2.58
	4,500	756	1.86	787	1.99	845	2.26	901	2.52	955	2.78	1005	3.03	1051	3.28
	5,000	834	2.51	861	2.67	914	2.96	966	3.25	1016	3.54	1064	3.82	1109	4.11
40RMQ 012	3,000	421	0.35	592	0.73	670	0.90	737	1.06	797	1.23	854	1.41	908	1.59
	3,500	626	0.98	664	1.08	735	1.28	798	1.48	855	1.67	908	1.87	958	2.07
	4,000	706	1.42	738	1.54	803	1.77	862	2.00	917	2.23	967	2.45	1014	2.67
	4,500	786	1.99	815	2.12	873	2.39	929	2.65	980	2.90	1028	3.16	1073	3.41
	5,000	867	2.70	893	2.84	946	3.14	997	3.43	1046	3.72	1092	4.00	1135	4.28
40RM* 40RMS 014	3,750	394	0.40	453	0.52	558	0.80	643	1.10	717	1.39	785	1.71	848	2.04
	4,300	436	0.57	487	0.70	586	1.00	670	1.34	742	1.67	806	2.01	867	2.36
	5,000	492	0.86	535	0.99	623	1.31	704	1.69	775	2.08	838	2.47	896	2.86
	5,700	550	1.23	587	1.37	664	1.71	740	2.11	809	2.55	872	2.99	929	3.43
	6,250	596	1.59	630	1.74	700	2.09	770	2.51	837	2.97	899	3.45	955	3.94
40RM* 40RMS 016	4,500	428	0.59	475	0.70	570	0.99	656	1.33	730	1.68	796	2.02	856	2.38
	5,300	488	0.92	528	1.04	609	1.34	689	1.71	762	2.11	827	2.51	886	2.92
	6,000	542	1.29	578	1.43	649	1.74	721	2.11	791	2.55	855	3.00	914	3.46
	6,800	604	1.83	637	1.99	700	2.32	763	2.70	826	3.15	888	3.64	946	4.15
	7,500	660	2.42	690	2.59	747	2.95	804	3.34	861	3.79	919	4.29	975	4.83
40RMQ 016	4,500	437	0.61	483	0.72	576	1.01	660	1.35	732	1.69	797	2.03	856	2.38
	5,300	499	0.95	538	1.07	617	1.37	696	1.74	767	2.13	830	2.53	888	2.94
	6,000	555	1.34	590	1.48	659	1.79	730	2.17	798	2.59	860	3.04	918	3.49
	6,800	620	1.91	651	2.06	712	2.39	774	2.78	836	3.22	896	3.71	952	4.21
	7,500	677	2.52	706	2.69	761	3.04	817	3.44	873	3.89	929	4.39	984	4.93
40RM* 40RMS 024	6,000	532	1.25	569	1.39	639	1.69	711	2.06	781	2.48	846	2.93	905	3.39
	7,000	608	1.93	641	2.09	702	2.42	763	2.80	824	3.23	885	3.71	943	4.23
	8,000	686	2.83	716	3.01	770	3.38	823	3.77	876	4.21	930	4.70	983	5.24
	9,000	764	3.97	791	4.18	841	4.59	888	5.02	935	5.47	982	5.96	1030	6.51
	10,000	843	5.38	868	5.62	914	6.09	957	6.55	1000	7.02	1042	7.53	1084	8.08
40RMQ 024	6,000	542	1.29	577	1.42	646	1.72	716	2.09	785	2.51	849	2.95	907	3.40
	7,000	620	1.99	652	2.15	711	2.48	771	2.85	831	3.28	890	3.76	947	4.27
	8,000	700	2.92	728	3.10	781	3.46	833	3.85	885	4.29	938	4.78	990	5.32
	9,000	781	4.10	806	4.30	854	4.71	900	5.13	946	5.58	993	6.08	1039	6.62
	10,000	862	5.56	885	5.79	929	6.24	971	6.70	1012	7.18	1054	7.69	1096	8.24
40RM* 40RMS 028	7,500	456	1.29	490	1.47	556	1.85	621	2.25	678	2.64	729	3.06	778	3.60
	8,750	521	1.98	551	2.18	608	2.61	664	3.07	720	3.53	770	3.99	816	4.45
	10,000	587	2.88	614	3.11	664	3.59	714	4.09	763	4.62	812	5.15	857	5.68
	11,250	653	4.03	678	4.29	724	4.82	768	5.37	812	5.95	856	6.54	899	7.14
	12,500	720	5.46	743	5.75	785	6.33	825	6.93	865	7.55	904	8.20	944	8.86
40RMQ 028	7,500	476	1.39	510	1.58	579	1.99	644	2.40	701	2.81	752	3.29	804	3.96
	8,750	545	2.14	574	2.35	633	2.81	691	3.29	747	3.77	797	4.25	842	4.76
	10,000	615	3.12	641	3.36	692	3.87	743	4.41	794	4.96	843	5.51	888	6.05
	11,250	685	4.37	709	4.64	754	5.20	800	5.79	845	6.40	891	7.02	935	7.64
	12,500	756	5.92	778	6.22	819	6.83	860	7.47	901	8.14	942	8.83	**983**	**9.52**
40RM* 40RMS 034	9,000	521	1.99	550	2.25	616	2.77	676	3.23	731	3.72	782	4.20	829	4.70
	10,500	596	3.16	623	3.40	672	3.89	720	4.40	767	4.94	814	5.50	859	6.05
	12,000	673	4.63	698	4.90	743	5.45	785	6.02	826	6.62	867	7.23	**908**	**7.87**
	13,500	751	6.51	773	6.82	815	7.44	853	8.06	**890**	**8.71**	**927**	**9.38**	**963**	**10.07**
	15,000	829	8.84	850	9.19	**888**	**9.88**	**924**	**10.57**	**958**	**11.27**	**991**	**11.99**	**1024**	**12.73**

*With standard 3-row coil.

See Legend and Notes on page 52.

FAN PERFORMANCE DATA — 1.4-2.4 in. wg ESP — 50 Hz, ENGLISH

UNIT	AIRFLOW (Cfm)	EXTERNAL STATIC PRESSURE (in. wg)											
		1.4		1.6		1.8		2.0		2.2		2.4	
		Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp
40RM* 007	1,800	910	1.04	965	1.20	1016	1.36	1065	1.52	1111	1.69	1155	1.86
	2,100	927	1.21	983	1.38	1035	1.56	1084	1.74	1131	1.92	1175	2.11
	2,400	944	1.41	999	1.59	1052	1.78	1101	1.98	1149	2.18	1193	2.38
	2,700	964	1.63	1018	1.82	1069	2.03	1118	2.24	1165	2.45	—	—
	3,000	989	1.89	1039	2.10	1089	2.31	1136	2.53	1183	2.76	—	—
40RM* 40RMQ 40RMS 008	2,250	918	1.26	975	1.43	1029	1.62	1079	1.80	1126	1.99	1172	2.18
	2,600	936	1.48	991	1.67	1044	1.87	1094	2.07	1142	2.28	1188	2.49
	3,000	963	1.79	1014	1.99	1064	2.20	1113	2.42	1159	2.64	--	--
	3,400	998	2.18	1045	2.39	1092	2.61	1137	2.83	1182	3.07	--	--
	3,750	1034	2.58	1078	2.80	1122	3.03	1164	3.27	--	--	--	--
40RMS 010	2,550	884	1.18	931	1.29	975	1.40	1018	1.50	1059	1.61	—	—
	2,975	919	1.40	965	1.51	1009	1.62	1050	1.73	1090	1.84	—	—
	3,400	957	1.64	1002	1.76	1044	1.87	1085	1.98	1124	2.10	—	—
	3,825	998	1.92	1041	2.04	1082	2.16	1122	2.27	1160	2.39	—	—
	4,250	1041	2.23	1083	2.35	1123	2.48	1161	2.60	1199	2.72	—	—
40RM* 40RMS 012	3,000	949	1.74	1000	1.93	1050	2.14	1099	2.36	1147	2.58	1192	2.81
	3,500	990	2.21	1037	2.42	1083	2.64	1128	2.86	1172	3.10	—	—
	4,000	1040	2.80	1084	3.03	1126	3.26	1167	3.50	—	—	—	—
	4,500	1094	3.53	1136	3.78	1176	4.03	—	—	—	—	—	—
	5,000	1151	4.39	1191	4.66	—	—	—	—	—	—	—	—
40RMQ 012	3,000	961	1.78	1012	1.98	1062	2.19	1111	2.41	1158	2.64	—	—
	3,500	1005	2.27	1052	2.49	1098	2.71	1142	2.94	1186	3.18	—	—
	4,000	1058	2.90	1101	3.13	1143	3.36	1184	3.60	—	—	—	—
	4,500	1116	3.66	1157	3.91	1196	4.16	—	—	—	—	—	—
	5,000	1176	4.56	—	—	—	—	—	—	—	—	—	—
40RM* 40RMS 014	3,750	909	2.37	968	2.74	1026	3.12	1080	3.51	1131	3.92	1181	4.32
	4,300	925	2.73	980	3.11	1034	3.52	1084	3.92	1135	4.35	1184	4.78
	5,000	950	3.26	1002	3.67	1052	4.09	1101	4.53	1148	4.98	1190	5.44
	5,700	981	3.88	1031	4.33	1079	4.79	1125	5.25	1169	5.73	—	—
	6,250	1007	4.42	1057	4.91	1103	5.40	1148	5.90	1191	6.40	—	—
40RM* 40RMS 016	4,500	912	2.75	967	3.13	1019	3.52	1070	3.92	1120	4.35	1168	4.79
	5,300	940	3.33	992	3.75	1041	4.18	1088	4.61	1134	5.06	1179	5.52
	6,000	968	3.92	1018	4.38	1066	4.85	1112	5.32	1156	5.80	1198	6.29
	6,800	1000	4.67	1050	5.19	1097	5.71	1142	6.23	1185	6.76	—	—
	7,500	1028	5.39	1078	5.97	1125	6.54	1170	7.11	—	—	—	—
40RMQ 016	4,500	912	2.75	967	3.12	1019	3.52	1070	3.92	1120	4.35	1168	4.79
	5,300	942	3.34	992	3.76	1041	4.18	1088	4.61	1134	5.06	1179	5.52
	6,000	971	3.95	1020	4.40	1067	4.86	1112	5.33	1156	5.81	1198	6.29
	6,800	1005	4.72	1054	5.23	1101	5.75	1145	6.27	1187	6.79	—	—
	7,500	1036	5.48	1084	6.04	1131	6.61	1174	7.17	—	—	—	—
40RM* 40RMS 024	6,000	954	3.83	1005	4.27	1052	4.72	1098	5.22	1142	5.67	—	—
	7,000	990	4.74	1040	5.24	1090	5.80	1135	6.30	1176	6.84	—	—
	8,000	1028	5.79	1078	6.38	1130	7.00	1173	7.60	—	—	—	—
	9,000	1073	7.11	1120	7.72	1169	8.37	—	—	—	—	—	—
	10,000	1126	8.75	1166	9.37	—	—	—	—	—	—	—	—
40RMQ 024	6,000	961	3.86	1011	4.31	1058	4.77	1104	5.24	1147	5.71	—	—
	7,000	1000	4.79	1050	5.32	1097	5.85	1142	6.38	1184	6.91	—	—
	8,000	1041	5.88	1090	6.47	1137	7.07	1181	7.67	—	—	—	—
	9,000	1086	7.21	1133	7.82	1178	8.47	—	—	—	—	—	—
	10,000	1138	8.83	1180	9.46	—	—	—	—	—	—	—	—
40RM* 40RMS 028	7,500	831	4.41	870	5.10	913	5.90	950	6.88	985	7.70	—	—
	8,750	859	4.97	901	5.59	944	6.42	980	7.20	1020	8.10	—	—
	10,000	900	6.20	939	6.74	976	7.33	1013	8.00	1050	8.82	—	—
	11,250	941	7.73	980	8.32	1017	8.90	1052	9.51	1086	10.16	—	—
	12,500	984	9.53	1022	10.19	1058	10.84	1093	11.49	—	—	—	—
40RMQ 028	7,500	874	5.33	897	5.91	940	6.80	990	7.50	—	—	—	—
	8,750	886	5.36	930	6.13	982	7.32	1020	8.10	—	—	—	—
	10,000	930	6.60	969	7.20	1007	7.89	1045	8.71	—	—	—	—
	11,250	976	8.25	1014	8.86	1051	9.49	1086	10.17	—	—	—	—
	12,500	1023	10.20	1061	10.88	1097	11.56	—	—	—	—	—	—
40RM* 40RMS 034	9,000	866	5.20	899	5.85	950	6.65	989	7.38	1029	8.32	1077	9.74
	10,500	902	6.60	942	7.14	980	7.70	1016	8.31	1051	8.99	1085	9.77
	12,000	949	8.50	988	9.14	1026	9.76	1062	10.38	1095	11.01	—	—
	13,500	1000	10.78	1036	11.49	1073	12.21	—	—	—	—	—	—
	15,000	1057	13.49	1090	14.28	—	—	—	—	—	—	—	—

*With standard 3-row coil.

See Legend and Notes on page 52.

Performance data (cont)

FAN PERFORMANCE DATA — 0-300 Pa ESP — 60 Hz, SI

UNIT	AIRFLOW (L/s)	EXTERNAL STATIC PRESSURE (Pa)													
		0		50		100		150		200		250		300	
		r/s	kW	r/s	kW	r/s	kW	r/s	kW	r/s	kW	r/s	kW	r/s	kW
40RM* 007	850	6.64	0.14	7.56	0.18	9.13	0.26	10.56	0.35	11.88	0.45	13.08	0.55	14.16	0.66
	990	7.73	0.21	8.28	0.25	9.71	0.34	11.00	0.44	12.22	0.54	13.37	0.66	14.44	0.78
	1130	8.30	0.30	9.02	0.35	10.36	0.45	11.55	0.55	12.67	0.66	13.73	0.78	14.76	0.91
	1270	9.06	0.41	9.79	0.47	11.06	0.58	12.17	0.69	13.20	0.81	14.19	0.94	15.14	1.07
	1420	9.91	0.55	10.58	0.61	11.78	0.74	12.83	0.86	13.80	0.99	14.72	1.12	15.61	1.26
40RM* 40RMQ 40RMS 008	1060	4.55	0.06	8.21	0.27	9.67	0.37	10.93	0.46	12.11	0.57	13.23	0.68	14.30	0.81
	1230	5.37	0.11	8.99	0.38	10.37	0.49	11.55	0.60	12.62	0.71	13.65	0.84	14.64	0.96
	1420	9.21	0.48	9.92	0.55	11.22	0.67	12.33	0.80	13.33	0.92	14.27	1.05	15.17	1.19
	1600	10.25	0.68	10.89	0.75	12.09	0.90	13.15	1.04	14.10	1.18	14.99	1.33	15.83	1.47
	1770	11.18	0.90	11.76	0.98	12.88	1.14	13.90	1.30	14.82	1.45	15.67	1.61	16.46	1.77
40RMS 010	1200	6.58	0.31	8.35	0.40	9.76	0.49	11.00	0.57	12.00	0.65	13.00	0.73	13.90	0.81
	1400	7.67	0.44	9.25	0.54	10.60	0.63	11.70	0.71	12.70	0.80	13.60	0.88	14.50	0.96
	1600	8.77	0.60	10.20	0.70	11.40	0.79	12.50	0.88	13.40	0.97	14.30	1.05	15.20	1.14
	1800	9.86	0.78	11.10	0.88	12.30	0.98	13.30	1.07	14.20	1.16	15.10	1.25	15.90	1.34
	2000	11.00	0.99	12.10	1.09	13.20	1.19	14.10	1.29	15.00	3.38	15.80	1.48	16.60	1.57
40RM* 40RMS 012	1420	6.65	0.22	9.55	0.51	10.89	0.64	12.04	0.77	13.06	0.89	14.02	1.02	14.93	1.15
	1650	10.06	0.68	10.69	0.76	11.90	0.91	13.00	1.06	13.97	1.20	14.86	1.35	15.70	1.50
	1890	11.33	0.99	11.88	1.08	12.96	1.25	13.99	1.43	14.93	1.59	15.78	1.76	16.58	1.92
	2120	12.61	1.38	13.11	1.49	14.08	1.68	15.02	1.88	15.92	2.07	16.74	2.26	17.51	2.44
	2360	13.90	1.87	14.36	1.99	15.23	2.21	16.10	2.42	16.94	2.64	17.73	2.85	18.48	3.06
40RMQ 012	1420	7.02	0.26	9.86	0.54	11.17	0.67	12.28	0.79	13.29	0.92	14.23	1.05	15.14	1.19
	1650	10.44	0.73	11.06	0.80	12.25	0.96	13.31	1.10	14.25	1.25	15.13	1.39	15.96	1.54
	1890	11.76	1.06	12.31	1.15	13.38	1.32	14.37	1.49	15.28	1.66	16.11	1.83	16.89	1.99
	2120	13.10	1.48	13.59	1.58	14.55	1.78	15.48	1.97	16.34	2.17	17.14	2.35	17.89	2.54
	2360	14.45	2.01	14.89	2.12	15.76	2.34	16.62	2.56	17.43	2.77	18.20	2.98	18.92	3.19
40RM* 40RMS 014	1770	6.57	0.30	7.54	0.39	9.31	0.60	10.72	0.82	11.95	1.04	13.09	1.27	14.13	1.52
	2030	7.27	0.43	8.11	0.52	9.76	0.75	11.16	1.00	12.36	1.25	13.44	1.50	14.45	1.76
	2360	8.20	0.64	8.92	0.74	10.38	0.98	11.73	1.26	12.91	1.55	13.97	1.84	14.93	2.13
	2690	9.16	0.92	9.79	1.02	11.07	1.27	12.33	1.58	13.48	1.90	14.53	2.23	15.48	2.56
	2950	9.93	1.18	10.50	1.30	11.66	1.56	12.83	1.87	13.95	2.22	14.98	2.58	15.92	2.94
40RM* 40RMS 016	2120	7.13	0.44	7.91	0.52	9.50	0.74	10.94	0.99	12.17	1.25	13.26	1.51	14.26	1.77
	2500	8.13	0.68	8.80	0.78	10.15	1.00	11.48	1.27	12.70	1.57	13.78	1.87	14.76	2.18
	2830	9.03	0.96	9.63	1.07	10.81	1.30	12.01	1.58	13.18	1.90	14.25	2.24	15.23	2.58
	3210	10.07	1.37	10.62	1.48	11.66	1.73	12.71	2.01	13.77	2.35	14.80	2.71	15.76	3.09
	3540	10.99	1.81	11.50	1.93	12.45	2.20	13.40	2.49	14.35	2.83	15.31	3.20	16.24	3.60
40RMQ 016	2120	7.28	0.45	8.05	0.54	9.60	0.75	11.00	1.00	12.21	1.26	13.28	1.51	14.27	1.78
	2500	8.32	0.71	8.97	0.80	10.29	1.02	11.59	1.30	12.78	1.59	13.84	1.89	14.80	2.19
	2830	9.25	1.00	9.83	1.10	10.99	1.33	12.16	1.62	13.29	1.93	14.34	2.27	15.30	2.60
	3210	10.33	1.42	10.85	1.54	11.87	1.78	12.90	2.07	13.93	2.40	14.93	2.76	15.87	3.14
	3540	11.29	1.88	11.77	2.01	12.69	2.27	13.62	2.56	14.56	2.90	15.49	3.27	16.40	3.67
40RM* 40RMS 024	2830	8.86	0.94	9.48	1.04	10.65	1.26	11.84	1.53	13.01	1.85	14.10	2.19	15.08	2.53
	3300	10.14	1.44	10.69	1.56	11.70	1.81	12.71	2.08	13.73	2.41	14.74	2.77	15.71	3.15
	3780	11.43	2.11	11.93	2.25	12.84	2.52	13.71	2.81	14.60	3.14	15.49	3.51	16.39	3.91
	4250	12.74	2.96	13.19	3.12	14.02	3.43	14.81	3.74	15.59	4.08	16.37	4.45	17.17	4.85
	4720	14.05	4.01	14.47	4.19	15.23	4.54	15.96	4.88	16.66	5.24	17.36	5.62	18.07	6.03
40RMQ 024	2830	9.03	0.96	9.62	1.06	10.77	1.29	11.94	1.56	13.08	1.87	14.15	2.20	15.12	2.54
	3300	10.34	1.48	10.86	1.60	11.85	1.85	12.84	2.12	13.85	2.45	14.84	2.80	15.78	3.18
	3780	11.67	2.17	12.14	2.31	13.02	2.58	13.88	2.87	14.75	3.20	15.63	3.56	16.50	3.96
	4250	13.01	3.05	13.44	3.21	14.23	3.51	15.00	3.82	15.77	4.16	16.54	4.53	17.32	4.94
	4720	14.36	4.15	14.75	4.32	15.48	4.66	16.18	4.99	16.87	5.35	17.56	5.73	18.26	6.14
40RM* 40RMS 028	3540	7.60	0.96	8.16	1.09	9.27	1.38	10.34	1.68	11.30	1.97	12.15	2.28	12.97	2.68
	4130	8.68	1.47	9.18	1.62	10.13	1.94	11.07	2.29	11.99	2.63	12.84	2.97	13.60	3.32
	4720	9.78	2.15	10.23	2.32	11.07	2.67	11.89	3.05	12.72	3.45	13.53	3.84	14.29	4.23
	5310	10.89	3.01	11.30	3.20	12.06	3.59	12.80	4.00	13.53	4.43	14.27	4.88	14.99	5.33
	5900	12.00	4.07	12.38	4.29	13.09	4.72	13.75	5.17	14.41	5.63	15.07	6.11	15.74	6.61
40RMQ 028	3540	7.94	1.04	8.51	1.18	9.65	1.48	10.73	1.79	11.68	2.10	12.53	2.46	13.40	2.95
	4130	9.08	1.59	9.57	1.75	10.55	2.10	11.52	2.46	12.45	2.81	13.28	3.17	14.04	3.55
	4720	10.24	2.33	10.68	2.51	11.53	2.88	12.39	3.29	13.24	3.70	14.05	4.11	14.80	4.51
	5310	11.42	3.26	11.81	3.46	12.57	3.88	13.33	4.32	14.09	4.77	14.85	5.24	15.58	5.70
	5900	12.60	4.42	12.96	4.64	13.65	5.09	14.33	5.57	15.01	6.07	15.70	6.58	16.38	7.10
40RM* 40RMS 034	4250	8.68	1.48	9.17	1.68	10.27	2.07	11.27	2.41	12.19	2.77	13.03	3.13	13.81	3.50
	4960	9.93	2.35	10.38	2.53	11.21	2.90	11.99	3.28	12.78	3.68	13.56	4.10	14.32	4.51
	5660	11.21	3.45	11.63	3.66	12.38	4.07	13.08	4.49	13.76	4.93	14.45	5.39	15.14	5.87
	6370	12.51	4.85	12.89	5.08	13.58	5.54	14.22	6.01	14.83	6.49	15.44	6.99	16.05	7.51
	7080	13.82	6.59	14.17	6.85	14.81	7.36	15.40	7.88	15.97	8.40	16.52	8.94	17.06	9.49

*With standard 3-row coil.

See Legend and Notes on page 52.

FAN PERFORMANCE DATA — 350-600 Pa ESP — 60 Hz, SI

UNIT	AIRFLOW (L/s)	EXTERNAL STATIC PRESSURE (Pa)											
		350		400		450		500		550		600	
		r/s	kW	r/s	kW	r/s	kW	r/s	kW	r/s	kW	r/s	kW
40RM* 007	850	15.16	0.78	16.08	0.89	16.94	1.01	17.74	1.13	**18.51**	**1.26**	**19.25**	**1.39**
	990	15.44	0.90	16.38	1.03	17.25	1.16	18.07	1.30	**18.84**	**1.43**	**19.58**	**1.57**
	1130	15.73	1.05	16.65	1.19	17.53	1.33	**18.36**	**1.48**	**19.14**	**1.62**	**19.89**	**1.77**
	1270	16.07	1.21	16.96	1.36	17.82	1.51	**18.64**	**1.67**	**19.42**	**1.83**	—	—
	1420	16.48	1.41	17.32	1.56	**18.14**	**1.72**	**18.94**	**1.89**	**19.71**	**2.06**	—	—
40RM* 40RMQ 40RMS 008	1060	15.31	0.94	16.25	1.07	17.14	1.20	17.98	1.34	18.77	1.48	19.53	1.63
	1230	15.60	1.10	16.51	1.24	17.39	1.39	18.23	1.54	19.03	1.70	19.80	1.86
	1420	16.05	1.33	16.90	1.48	17.74	1.64	18.54	1.80	19.32	1.97	—	—
	1600	16.64	1.62	17.42	1.78	18.20	1.94	18.95	2.11	19.69	2.29	—	—
	1770	17.23	1.93	17.97	2.09	18.70	2.26	19.41	2.44	—	—	—	—
40RMS 010	1200	14.70	0.89	15.50	0.97	16.30	1.05	17.00	1.12	17.70	1.20	—	—
	1400	15.30	1.05	16.10	1.13	16.80	1.21	17.50	1.29	18.20	1.37	—	—
	1600	16.00	1.23	16.70	1.31	17.40	1.40	18.10	1.48	18.80	1.57	—	—
	1800	16.60	1.43	17.40	1.52	18.10	1.61	18.70	1.70	19.40	1.79	—	—
	2000	17.30	1.66	18.00	1.76	18.70	1.85	19.40	1.94	—	—	—	—
40RM* 40RMS 012	1420	15.81	1.29	16.67	1.44	17.51	1.60	18.32	1.76	19.11	1.92	19.87	2.09
	1650	16.51	1.65	17.29	1.80	18.05	1.97	18.80	2.13	19.53	2.31	—	—
	1890	17.34	2.09	18.06	2.26	18.77	2.43	19.45	2.61	—	—	—	—
	2120	18.24	2.63	18.93	2.82	19.59	3.00	—	—	—	—	—	—
	2360	19.18	3.27	19.85	3.48	—	—	—	—	—	—	—	—
40RMQ 012	1420	16.02	1.33	16.87	1.48	17.71	1.64	18.52	1.80	19.30	1.97	—	—
	1650	16.76	1.70	17.53	1.85	18.29	2.02	19.04	2.19	19.77	2.37	—	—
	1890	17.64	2.16	18.35	2.33	19.05	2.51	19.74	2.69	—	—	—	—
	2120	18.60	2.73	19.28	2.91	19.93	3.10	—	—	—	—	—	—
	2360	19.61	3.40	—	—	—	—	—	—	—	—	—	—
40RM* 40RMS 014	1770	15.15	1.77	16.13	2.04	17.10	2.33	18.00	2.62	**18.85**	**2.92**	**19.68**	**3.22**
	2030	15.41	2.04	16.34	2.32	17.24	2.62	18.07	2.92	**18.92**	**3.24**	**19.73**	**3.56**
	2360	15.84	2.43	16.70	2.74	17.54	3.05	**18.35**	**3.38**	**19.14**	**3.71**	**19.83**	**4.06**
	2690	16.36	2.89	17.19	3.23	17.98	3.57	**18.75**	**3.92**	**19.49**	**4.27**	—	—
	2950	16.79	3.30	17.61	3.66	**18.39**	**4.03**	**19.13**	**4.40**	**19.84**	**4.77**	—	—
40RM* 40RMS 016	2120	15.20	2.05	16.12	2.33	16.98	2.62	17.83	2.92	18.67	3.24	19.47	3.57
	2500	15.67	2.49	16.53	2.80	17.35	3.12	18.13	3.44	18.90	3.77	**19.65**	**4.12**
	2830	16.13	2.92	16.97	3.27	17.77	3.62	18.53	3.97	19.26	4.33	**19.97**	**4.69**
	3210	16.66	3.48	17.50	3.87	18.29	4.26	19.03	4.65	**19.75**	**5.04**	—	—
	3540	17.13	4.02	17.97	4.45	18.75	4.88	19.50	5.30	—	—	—	—
40RMQ 016	2120	15.21	2.05	16.11	2.33	16.98	2.62	17.83	2.93	18.66	3.24	19.47	3.57
	2500	15.69	2.49	16.54	2.80	17.35	3.12	18.14	3.44	18.90	3.77	**19.64**	**4.11**
	2830	16.18	2.94	17.01	3.28	17.79	3.63	18.54	3.97	19.27	4.33	**19.97**	**4.69**
	3210	16.75	3.52	17.57	3.90	18.34	4.29	19.08	4.67	**19.78**	**5.06**	—	—
	3540	17.26	4.09	18.07	4.50	18.84	4.93	**19.57**	**5.35**	—	—	—	—
40RM* 40RMS 024	2830	15.90	2.86	16.75	3.18	17.53	3.52	18.30	3.89	19.03	4.23	—	—
	3300	16.50	3.53	17.33	3.91	18.17	4.32	18.92	4.70	19.60	5.10	—	—
	3780	17.13	4.32	17.97	4.76	18.83	5.22	19.55	5.67	—	—	—	—
	4250	17.88	5.30	18.67	5.76	19.48	6.24	—	—	—	—	—	—
	4720	18.77	6.52	19.43	6.99	—	—	—	—	—	—	—	—
40RMQ 024	2830	16.01	2.88	16.85	3.22	17.64	3.56	18.39	3.91	19.12	4.26	—	—
	3300	16.67	3.57	17.50	3.96	18.28	4.36	19.03	4.75	19.73	5.15	—	—
	3780	17.35	4.39	18.17	4.82	18.95	5.27	19.68	5.72	—	—	—	—
	4250	18.11	5.37	18.88	5.83	19.63	6.31	—	—	—	—	—	—
	4720	18.96	6.58	19.67	7.05	—	—	—	—	—	—	—	—
40RM* 40RMS 028	3540	13.85	3.29	14.50	3.80	15.22	4.40	15.83	5.13	16.42	5.74	—	—
	4130	14.31	3.71	15.01	4.17	15.74	4.79	16.33	5.37	17.00	6.04	—	—
	4720	14.99	4.62	15.65	5.02	16.27	5.46	16.88	5.97	17.50	6.57	—	—
	5310	15.68	5.77	16.34	6.20	16.95	6.64	17.53	7.09	**18.09**	**7.58**	—	—
	5900	16.39	7.10	17.03	7.60	17.64	8.08	**18.22**	**8.57**	—	—	—	—
40RMQ 028	3540	14.57	3.97	14.95	4.41	15.67	5.07	16.50	5.59	—	—	—	—
	4130	14.76	3.99	15.51	4.57	16.36	5.46	17.00	6.04	—	—	—	—
	4720	15.49	4.92	16.15	5.37	16.78	5.88	17.42	6.50	—	—	—	—
	5310	16.26	6.15	16.91	6.61	17.51	7.08	**18.10**	**7.58**	—	—	—	—
	5900	17.04	7.61	17.68	8.11	**18.28**	**8.62**	—	—	—	—	—	—
40RM* 40RMS 034	4250	14.43	3.88	14.98	4.36	15.84	4.96	16.48	5.50	17.16	6.21	**17.96**	**7.26**
	4960	15.04	4.92	15.71	5.32	16.33	5.74	16.93	6.20	17.51	6.70	**18.09**	**7.29**
	5660	15.81	6.34	16.47	6.81	17.10	7.28	17.69	7.74	**18.26**	**8.21**	—	—
	6370	16.66	8.04	17.27	8.57	17.88	9.10	—	—	—	—	—	—
	7080	17.61	10.06	**18.16**	**10.64**	—	—	—	—	—	—	—	—

*With standard 3-row coil.

See Legend and Notes on page 52.

Performance data (cont)

FAN PERFORMANCE DATA — 0-300 Pa ESP — 50 Hz, SI

UNIT	AIRFLOW (L/s)	EXTERNAL STATIC PRESSURE (Pa)													
		0		50		100		150		200		250		300	
		r/s	kW	r/s	kW	r/s	kW	r/s	kW	r/s	kW	r/s	kW	r/s	kW
40RM* 007	850	6.64	0.14	7.56	0.18	9.13	0.26	10.56	0.35	11.88	0.45	13.08	0.55	14.16	0.66
	990	7.43	0.21	8.28	0.25	9.71	0.34	11.00	0.44	12.22	0.54	13.37	0.66	14.44	0.78
	1130	8.30	0.30	9.02	0.35	10.36	0.45	11.55	0.55	12.67	0.66	13.73	0.78	14.76	0.91
	1270	9.06	0.41	9.79	0.47	11.06	0.58	12.17	0.69	13.20	0.81	14.19	0.94	15.14	1.07
	1420	9.91	0.55	10.58	0.61	11.78	0.74	12.83	0.86	13.80	0.99	14.72	1.12	15.61	1.26
40RM* 40RMQ 40RMS 008	1060	4.55	0.06	8.21	0.27	9.67	0.37	10.93	0.46	12.11	0.57	13.23	0.68	14.30	0.81
	1230	5.37	0.11	8.99	0.38	10.37	0.49	11.55	0.60	12.62	0.71	13.65	0.84	14.64	0.96
	1420	9.21	0.48	9.92	0.55	11.22	0.67	12.33	0.80	13.33	0.92	14.27	1.05	15.17	1.19
	1600	10.25	0.68	10.89	0.75	12.09	0.90	13.15	1.04	14.10	1.18	14.99	1.33	15.83	1.47
	1770	11.18	0.90	11.76	0.98	12.88	1.14	13.90	1.30	14.82	1.45	15.67	1.61	16.46	1.77
40RMS 010	1200	6.58	0.31	8.35	0.40	9.76	0.49	11.00	0.57	12.00	0.65	13.00	0.73	13.90	0.81
	1400	7.67	0.44	9.25	0.54	10.60	0.63	11.70	0.71	12.70	0.80	13.60	0.88	14.50	0.96
	1600	8.77	0.60	10.20	0.70	11.40	0.79	12.50	0.88	13.40	0.97	14.30	1.05	15.20	1.14
	1800	9.86	0.78	11.10	0.88	12.30	0.98	13.30	1.07	14.20	1.16	15.10	1.25	15.90	1.34
	2000	11.00	0.99	12.10	1.09	13.20	1.19	14.10	1.29	15.00	3.38	15.80	1.48	16.60	1.57
40RM* 40RMS 012	1420	6.65	0.22	9.55	0.51	10.89	0.64	12.04	0.77	13.06	0.89	14.02	1.02	14.93	1.15
	1650	10.06	0.68	10.69	0.76	11.90	0.91	13.00	1.06	13.97	1.20	14.86	1.35	15.70	1.50
	1890	11.33	0.99	11.88	1.08	12.96	1.25	13.99	1.43	14.93	1.59	15.78	1.76	16.58	1.92
	2120	12.61	1.38	13.11	1.49	14.08	1.68	15.02	1.88	15.92	2.07	16.74	2.26	17.51	2.44
	2360	13.90	1.87	14.36	1.99	15.23	2.21	16.10	2.42	16.94	2.64	17.73	2.85	18.48	3.06
40RMQ 012	1420	7.02	0.26	9.86	0.54	11.17	0.67	12.28	0.79	13.29	0.92	14.23	1.05	15.14	1.19
	1650	10.44	0.73	11.06	0.80	12.25	0.96	13.31	1.10	14.25	1.25	15.13	1.39	15.96	1.54
	1890	11.76	1.06	12.31	1.15	13.38	1.32	14.37	1.49	15.28	1.66	16.11	1.83	16.89	1.99
	2120	13.10	1.48	13.59	1.58	14.55	1.78	15.48	1.97	16.34	2.17	17.14	2.35	17.89	2.54
	2360	14.45	2.01	14.89	2.12	15.76	2.34	16.62	2.56	17.43	2.77	18.20	2.98	18.92	3.19
40RM* 40RMS 014	1770	6.57	0.30	7.54	0.39	9.31	0.60	10.72	0.82	11.95	1.04	13.09	1.27	14.13	1.52
	2030	7.27	0.43	8.11	0.52	9.76	0.75	11.16	1.00	12.36	1.25	13.44	1.50	14.45	1.76
	2360	8.20	0.64	8.92	0.74	10.38	0.98	11.73	1.26	12.91	1.55	13.97	1.84	14.93	2.13
	2690	9.16	0.92	9.79	1.02	11.07	1.27	12.33	1.58	13.48	1.90	14.53	2.23	15.48	2.56
	2950	9.93	1.18	10.50	1.30	11.66	1.56	12.83	1.87	13.95	2.22	14.98	2.58	15.92	2.94
40RM* 40RMS 016	2120	7.13	0.44	7.91	0.52	9.50	0.74	10.94	0.99	12.17	1.25	13.26	1.51	14.26	1.77
	2500	8.13	0.68	8.80	0.78	10.15	1.00	11.48	1.27	12.70	1.57	13.78	1.87	14.76	2.18
	2830	9.03	0.96	9.63	1.07	10.81	1.30	12.01	1.58	13.18	1.90	14.25	2.24	15.23	2.58
	3210	10.07	1.37	10.62	1.48	11.66	1.73	12.71	2.01	13.77	2.35	14.80	2.71	15.76	3.09
	3540	10.99	1.81	11.50	1.93	12.45	2.20	13.40	2.49	14.35	2.83	15.31	3.20	16.24	3.60
40RMQ 016	2120	7.28	0.45	8.05	0.54	9.60	0.75	11.00	1.00	12.21	1.26	13.28	1.51	14.27	1.78
	2500	8.32	0.71	8.97	0.80	10.29	1.02	11.59	1.30	12.78	1.59	13.84	1.89	14.80	2.19
	2830	9.25	1.00	9.83	1.10	10.99	1.33	12.16	1.62	13.29	1.93	14.34	2.27	15.30	2.60
	3210	10.33	1.42	10.85	1.54	11.87	1.78	12.90	2.07	13.93	2.40	14.93	2.76	15.87	3.14
	3540	11.29	1.88	11.77	2.01	12.69	2.27	13.62	2.56	14.56	2.90	15.49	3.27	16.40	3.67
40RM* 40RMS 024	2830	8.86	0.94	9.48	1.04	10.65	1.26	11.84	1.53	13.01	1.85	14.10	2.19	15.08	2.53
	3300	10.14	1.44	10.69	1.56	11.70	1.81	12.71	2.08	13.73	2.41	14.74	2.77	15.71	3.15
	3780	11.43	2.11	11.93	2.25	12.84	2.52	13.71	2.81	14.60	3.14	15.49	3.51	16.39	3.91
	4250	12.74	2.96	13.19	3.12	14.02	3.43	14.81	3.74	15.59	4.08	16.37	4.45	17.17	4.85
	4720	14.05	4.01	14.47	4.19	15.23	4.54	15.96	4.88	16.66	5.24	17.36	5.62	18.07	6.03
40RMQ 024	2830	9.03	0.96	9.62	1.06	10.77	1.29	11.94	1.56	13.08	1.87	14.15	2.20	15.12	2.54
	3300	10.34	1.48	10.86	1.60	11.85	1.85	12.84	2.12	13.85	2.45	14.84	2.80	15.78	3.18
	3780	11.67	2.17	12.14	2.31	13.02	2.58	13.88	2.87	14.75	3.20	15.63	3.56	16.50	3.96
	4250	13.01	3.05	13.44	3.21	14.23	3.51	15.00	3.82	15.77	4.16	16.54	4.53	17.32	4.94
	4720	14.36	4.15	14.75	4.32	15.48	4.66	16.18	4.99	16.87	5.35	17.56	5.73	18.26	6.14
40RM* 40RMS 028	3540	7.60	0.96	8.16	1.09	9.27	1.38	10.34	1.68	11.30	1.97	12.15	2.28	12.97	2.68
	4130	8.68	1.47	9.18	1.62	10.13	1.94	11.07	2.29	11.99	2.63	12.84	2.97	13.60	3.32
	4720	9.78	2.15	10.23	2.32	11.07	2.67	11.89	3.05	12.72	3.45	13.53	3.84	14.29	4.23
	5310	10.89	3.01	11.30	3.20	12.06	3.59	12.80	4.00	13.53	4.43	14.27	4.88	14.99	5.33
	5900	12.00	4.07	12.38	4.29	13.09	4.72	13.75	5.17	14.41	5.63	15.07	6.11	15.74	6.61
40RMQ 028	3540	7.94	1.04	8.51	1.18	9.65	1.48	10.73	1.79	11.68	2.10	12.53	2.46	13.40	2.95
	4130	9.08	1.59	9.57	1.75	10.55	2.10	11.52	2.46	12.45	2.81	13.28	3.17	14.04	3.55
	4720	10.24	2.33	10.68	2.51	11.53	2.88	12.39	3.29	13.24	3.70	14.05	4.11	14.80	4.51
	5310	11.42	3.26	11.81	3.46	12.57	3.88	13.33	4.32	14.09	4.77	14.85	5.24	15.58	5.70
	5900	12.60	4.42	12.96	4.64	13.65	5.09	14.33	5.57	15.01	6.07	15.70	6.58	16.38	7.10
40RM* 40RMS 034	4250	8.68	1.48	9.17	1.68	10.27	2.07	11.27	2.41	12.19	2.77	13.03	3.13	13.81	3.50
	4960	9.93	2.35	10.38	2.53	11.21	2.90	11.99	3.28	12.78	3.68	13.56	4.10	14.32	4.51
	5660	11.21	3.45	11.63	3.66	12.38	4.07	13.08	4.49	13.76	4.93	14.45	5.39	15.14	5.87
	6370	12.51	4.85	12.89	5.08	13.58	5.54	14.22	6.01	14.83	6.49	15.44	6.99	16.05	7.51
	7080	13.82	6.59	14.17	6.85	14.81	7.36	15.40	7.88	15.97	8.40	16.52	8.94	17.06	9.49

*With standard 3-row coil.

See Legend and Notes on page 52.

FAN PERFORMANCE DATA — 350-600 Pa ESP — 50 Hz, SI

UNIT	AIRFLOW (L/s)	EXTERNAL STATIC PRESSURE (Pa)											
		350		400		450		500		550		600	
		r/s	kW	r/s	kW	r/s	kW	r/s	kW	r/s	kW	r/s	kW
40RM* 007	850	15.16	0.78	16.08	0.89	16.94	1.01	**17.74**	**1.13**	**18.51**	**1.26**	**19.25**	**1.39**
	990	15.44	0.90	16.38	1.03	17.25	1.16	**18.07**	**1.30**	**18.84**	**1.43**	**19.58**	**1.57**
	1130	15.73	1.05	16.65	1.19	**17.53**	**1.33**	**18.36**	**1.48**	**19.14**	**1.62**	**19.89**	**1.77**
	1270	16.07	1.21	16.96	1.36	**17.82**	**1.51**	**18.64**	**1.67**	**19.42**	**1.83**	—	—
	1420	16.48	1.41	17.32	1.56	**18.14**	**1.72**	**18.94**	**1.89**	**19.71**	**2.06**	—	—
40RM* 40RMQ 40RMS 008	1060	15.31	0.94	16.25	1.07	17.14	1.20	17.98	1.34	18.77	1.48	**19.53**	**1.63**
	1230	15.60	1.10	16.51	1.24	17.39	1.39	18.23	1.54	**19.03**	**1.70**	**19.80**	**1.86**
	1420	16.05	1.33	16.90	1.48	17.74	1.64	18.54	1.80	**19.32**	**1.97**	—	—
	1600	16.64	1.62	17.42	1.78	18.20	1.94	18.95	2.11	**19.69**	**2.29**	—	—
	1770	17.23	1.93	17.97	2.09	18.70	2.26	**19.41**	**2.44**	—	—	—	—
40RMS 010	1200	14.70	0.89	15.50	0.97	16.30	1.05	17.00	1.12	17.70	1.20	—	—
	1400	15.30	1.05	16.10	1.13	16.80	1.21	17.50	1.29	18.20	1.37	—	—
	1600	16.00	1.23	16.70	1.31	17.40	1.40	18.10	1.48	18.80	1.57	—	—
	1800	16.60	1.43	17.40	1.52	18.10	1.61	18.70	1.70	**19.40**	**1.79**	—	—
	2000	17.30	1.66	18.00	1.76	18.70	1.85	**19.40**	**1.94**	—	—	—	—
40RM* 40RMS 012	1420	15.81	1.29	16.67	1.44	17.51	1.60	18.32	1.76	19.11	1.92	19.87	2.09
	1650	16.51	1.65	17.29	1.80	18.05	1.97	18.80	2.13	19.53	2.31	—	—
	1890	17.34	2.09	18.06	2.26	18.77	2.43	19.45	2.61	—	—	—	—
	2120	18.24	2.63	18.93	2.82	19.59	3.00	—	—	—	—	—	—
	2360	19.18	3.27	19.85	3.48	—	—	—	—	—	—	—	—
40RMQ 012	1420	16.02	1.33	16.87	1.48	17.71	1.64	18.52	1.80	19.30	1.97	—	—
	1650	16.76	1.70	17.53	1.85	18.29	2.02	19.04	2.19	19.77	2.37	—	—
	1890	17.64	2.16	18.35	2.33	19.05	2.51	19.74	2.69	—	—	—	—
	2120	18.60	2.73	19.28	2.91	19.93	3.10	—	—	—	—	—	—
	2360	19.61	3.40	—	—	—	—	—	—	—	—	—	—
40RM* 40RMS 014	1770	15.15	1.77	16.13	2.04	17.10	2.33	**18.00**	**2.62**	**18.85**	**2.92**	**19.68**	**3.22**
	2030	15.41	2.04	16.34	2.32	17.24	2.62	**18.07**	**2.92**	**18.92**	**3.24**	**19.73**	**3.56**
	2360	15.84	2.43	16.70	2.74	**17.54**	**3.05**	**18.35**	**3.38**	**19.14**	**3.71**	**19.83**	**4.06**
	2690	16.36	2.89	17.19	3.23	**17.98**	**3.57**	**18.75**	**3.92**	**19.49**	**4.27**	—	—
	2950	16.79	3.30	**17.61**	**3.66**	**18.39**	**4.03**	**19.13**	**4.40**	**19.84**	**4.77**	—	—
40RM* 40RMS 016	2120	15.20	2.05	16.12	2.33	**16.98**	**2.62**	**17.83**	**2.92**	**18.67**	**3.24**	**19.47**	**3.57**
	2500	15.67	2.49	16.53	2.80	**17.35**	**3.12**	**18.13**	**3.44**	**18.90**	**3.77**	**19.65**	**4.12**
	2830	16.13	2.92	16.97	3.27	**17.77**	**3.62**	**18.53**	**3.97**	**19.26**	**4.33**	**19.97**	**4.69**
	3210	16.66	3.48	**17.50**	**3.87**	**18.29**	**4.26**	**19.03**	**4.65**	**19.75**	**5.04**	—	—
	3540	**17.13**	**4.02**	**17.97**	**4.45**	**18.75**	**4.88**	**19.50**	**5.30**	—	—	—	—
40RMQ 016	2120	15.21	2.05	16.11	2.33	**16.98**	**2.62**	**17.83**	**2.93**	**18.66**	**3.24**	**19.47**	**3.57**
	2500	15.69	2.49	16.54	2.80	**17.35**	**3.12**	**18.14**	**3.44**	**18.90**	**3.77**	**19.64**	**4.11**
	2830	16.18	2.94	**17.01**	**3.28**	**17.79**	**3.63**	**18.54**	**3.97**	**19.27**	**4.33**	**19.97**	**4.69**
	3210	16.75	3.52	**17.57**	**3.90**	**18.34**	**4.29**	**19.08**	**4.67**	**19.78**	**5.06**	—	—
	3540	**17.26**	**4.09**	**18.07**	**4.50**	**18.84**	**4.93**	**19.57**	**5.35**	—	—	--	—
40RM* 40RMS 024	2830	15.90	2.86	16.75	3.18	17.53	3.52	18.30	3.89	**19.03**	**4.23**	—	—
	3300	16.50	3.53	17.33	3.91	18.17	4.32	**18.92**	**4.70**	**19.60**	**5.10**	—	—
	3780	17.13	4.32	17.97	4.76	**18.83**	**5.22**	**19.55**	**5.67**	—	—	—	—
	4250	17.88	5.30	**18.67**	**5.76**	**19.48**	**6.24**	—	—	—	—	—	—
	4720	**18.77**	**6.52**	**19.43**	**6.99**	—	—	—	—	—	—	—	—
40RMQ 024	2830	16.01	2.88	16.85	3.22	17.64	3.56	18.39	3.91	**19.12**	**4.26**	—	—
	3300	16.67	3.57	17.50	3.96	18.28	4.36	**19.03**	**4.75**	**19.73**	**5.15**	—	—
	3780	17.35	4.39	18.17	4.82	**18.95**	**5.27**	**19.68**	**5.72**	—	—	—	—
	4250	18.11	5.37	**18.88**	**5.83**	**19.63**	**6.31**	—	—	—	—	—	—
	4720	**18.96**	**6.58**	**19.67**	**7.05**	—	—	—	—	—	—	—	—
40RM* 40RMS 028	3540	13.85	3.29	14.50	3.80	15.22	4.40	**15.83**	**5.13**	**16.42**	**5.74**	—	—
	4130	14.31	3.71	15.01	4.17	15.74	4.79	**16.33**	**5.37**	**17.00**	**6.04**	—	—
	4720	14.99	4.62	15.65	5.02	**16.27**	**5.46**	**16.88**	**5.97**	**17.50**	**6.57**	—	—
	5310	15.68	5.77	**16.34**	**6.20**	**16.95**	**6.64**	**17.53**	**7.09**	**18.09**	**7.58**	—	—
	5900	**16.39**	**7.10**	**17.03**	**7.60**	**17.64**	**8.08**	**18.22**	**8.57**	—	—	—	—
40RMQ 028	3540	14.57	3.97	14.95	4.41	15.67	5.07	**16.50**	**5.59**	—	—	—	—
	4130	14.76	3.99	15.51	4.57	**16.36**	**5.46**	**17.00**	**6.04**	—	—	—	—
	4720	15.49	4.92	**16.15**	**5.37**	**16.78**	**5.88**	**17.42**	**6.50**	—	—	—	—
	5310	**16.26**	**6.15**	**16.91**	**6.61**	**17.51**	**7.08**	**18.10**	**7.58**	—	—	—	—
	5900	**17.04**	**7.61**	**17.68**	**8.11**	**18.28**	**8.62**	—	—	—	—	—	—
40RM* 40RMS 034	4250	14.43	3.88	**14.98**	**4.36**	**15.84**	**4.96**	**16.48**	**5.50**	**17.16**	**6.21**	**17.96**	**7.26**
	4960	**15.04**	**4.92**	**15.71**	**5.32**	**16.33**	**5.74**	**16.93**	**6.20**	**17.51**	**6.70**	**18.09**	**7.29**
	5660	**15.81**	**6.34**	**16.47**	**6.81**	**17.10**	**7.28**	**17.69**	**7.74**	**18.26**	**8.21**	—	—
	6370	**16.66**	**8.04**	**17.27**	**8.57**	**17.88**	**9.10**	—	—	—	—	—	—
	7080	**17.61**	**10.06**	**18.16**	**10.64**	—	—	—	—	—	—	—	—

*With standard 3-row coil.

See Legend and Notes on page 52.

Performance data (cont)

FAN PERFORMANCE DATA — 40RM WITH HIGH CAPACITY COIL — 0.0-1.2 in. wg ESP — 60 Hz, ENGLISH

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

See Legend and Notes on page 52.

FAN PERFORMANCE DATA — 40RM WITH HIGH CAPACITY COIL — 1.4-2.4 in. wg ESP — 60 Hz, ENGLISH

UNIT 40RM (High Capacity 4-Row Coil)	AIRFLOW (Cfm)	EXTERNAL STATIC PRESSURE (in. wg)											
		1.4		1.6		1.8		2.0		2.2		2.4	
		Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp
007	1,800	921	1.07	975	1.23	1026	1.39	1074	1.55	**1120**	**1.72**	**1164**	**1.90**
	2,100	942	1.26	997	1.43	1048	1.61	**1097**	**1.79**	**1143**	**1.97**	**1186**	**2.16**
	2,400	963	1.47	1017	1.66	1069	1.85	**1118**	**2.05**	**1164**	**2.25**	—	—
	2,700	987	1.71	1039	1.91	**1090**	**2.12**	**1138**	**2.33**	**1185**	**2.55**	—	—
	3,000	1015	1.99	1065	2.20	**1113**	**2.42**	**1161**	**2.65**	—	—	—	—
008	2,250	930	1.29	986	1.47	1039	1.65	1089	1.84	1136	2.03	1181	2.22
	2,600	950	1.53	1005	1.72	1057	1.92	1107	2.13	1154	2.33	—	—
	3,000	980	1.86	1031	2.06	1081	2.27	1129	2.49	1175	2.72	—	—
	3,400	1018	2.26	1065	2.48	1111	2.70	1156	2.93	—	—	—	—
	3,750	1057	2.69	1101	2.92	1144	3.15	1186	3.39	—	—	—	—
012	3,000	961	1.78	1012	1.98	1062	2.19	1111	2.41	1158	2.64	—	—
	3,500	1005	2.27	1052	2.49	1098	2.71	1142	2.94	1186	3.18	—	—
	4,000	1058	2.90	1101	3.13	1143	3.36	1184	3.60	—	—	—	—
	4,500	1116	3.66	1157	3.91	1196	4.16	—	—	—	—	—	—
	5,000	1176	4.56	—	—	—	—	—	—	—	—	—	—
014	3,750	912	2.39	971	2.76	1028	3.14	1083	3.54	**1135**	**3.95**	**1185**	**4.36**
	4,300	928	2.75	982	3.13	1036	3.53	1087	3.94	**1138**	**4.37**	**1187**	**4.81**
	5,000	956	3.30	1007	3.71	1056	4.13	**1104**	**4.56**	**1151**	**5.00**	**1196**	**5.46**
	5,700	990	3.96	1039	4.40	1086	4.85	**1130**	**5.31**	**1174**	**5.78**	—	—
	6,250	1019	4.54	1067	5.02	**1112**	**5.50**	**1156**	**5.99**	**1198**	**6.49**	—	—
016	4,500	912	2.75	967	3.12	1019	3.52	1070	3.92	1120	4.35	1168	4.79
	5,300	942	3.34	992	3.76	1041	4.18	1088	4.61	1134	5.06	**1179**	**5.52**
	6,000	971	3.95	1020	4.40	1067	4.86	1112	5.33	1156	5.81	**1198**	**6.29**
	6,800	1005	4.72	1054	5.23	1101	5.75	1145	6.27	**1187**	**6.79**	—	—
	7,500	1036	5.48	1084	6.04	1131	6.61	**1174**	**7.17**	—	—	—	—
024	6,000	961	3.86	1011	4.31	1058	4.77	1104	5.24	1147	5.71	—	—
	7,000	1000	4.79	1050	5.32	1097	5.85	1142	6.38	1184	6.91	—	—
	8,000	1041	5.88	1090	6.47	1137	7.07	1181	7.67	—	—	—	—
	9,000	1086	7.21	1133	7.82	1178	8.47	—	—	—	—	—	—
	10,000	1138	8.83	1180	9.46	—	—	—	—	—	—	—	—
028	7,500	874	5.33	897	5.91	940	6.80	990	7.50	—	—	—	—
	8,750	886	5.36	930	6.13	982	7.32	1020	8.10	—	—	—	—
	10,000	930	6.60	969	7.20	1007	7.89	1045	8.71	—	—	—	—
	11,250	976	8.25	1014	8.86	1051	9.49	**1086**	**10.17**	—	—	—	—
	12,500	1023	10.20	1061	10.88	**1097**	**11.56**	—	—	—	—	—	—
034	9,000	881	5.37	923	6.03	967	6.89	1020	8.25	—	—	—	—
	10,500	930	6.97	970	7.55	1008	8.17	1045	8.86	—	—	—	—
	12,000	981	9.02	1021	9.67	1058	10.32	**1094**	**10.97**	—	—	—	—
	13,500	1035	11.45	1072	12.20	—	—	—	—	—	—	—	—
	15,000	1093	14.35	—	—	—	—	—	—	—	—	—	—

See Legend and Notes on page 52.

Performance data (cont)

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

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

See Legend and Notes on page 52.

FAN PERFORMANCE DATA — 40RM WITH HIGH CAPACITY COIL — 1.4-2.4 in. wg ESP — 50 Hz, ENGLISH

UNIT 40RM (High Capacity 4-Row Coil)	AIRFLOW (Cfm)	EXTERNAL STATIC PRESSURE (in. wg)											
		1.4		1.6		1.8		2.0		2.2		2.4	
		Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp
007	1,800	921	1.07	975	1.23	1026	1.39	1074	1.55	1120	1.72	1164	1.90
	2,100	942	1.26	997	1.43	1048	1.61	1097	1.79	1143	1.97	1186	2.16
	2,400	963	1.47	1017	1.66	1069	1.85	1118	2.05	1164	2.25	—	—
	2,700	987	1.71	1039	1.91	1090	2.12	1138	2.33	1185	2.55	—	—
	3,000	1015	1.99	1065	2.20	1113	2.42	1161	2.65	—	—	—	—
008	2,250	930	1.29	986	1.47	1039	1.65	1089	1.84	1136	2.03	1181	2.22
	2,600	950	1.53	1005	1.72	1057	1.92	1107	2.13	1154	2.33	—	—
	3,000	980	1.86	1031	2.06	1081	2.27	1129	2.49	1175	2.72	—	—
	3,400	1018	2.26	1065	2.48	1111	2.70	1156	2.93	—	—	—	—
	3,750	1057	2.69	1101	2.92	1144	3.15	1186	3.39	—	—	—	—
012	3,000	961	1.78	1012	1.98	1062	2.19	1111	2.41	1158	2.64	—	—
	3,500	1005	2.27	1052	2.49	1098	2.71	1142	2.94	1186	3.18	—	—
	4,000	1058	2.90	1101	3.13	1143	3.36	1184	3.60	—	—	—	—
	4,500	1116	3.66	1157	3.91	1196	4.16	—	—	—	—	—	—
	5,000	1176	4.56	—	—	—	—	—	—	—	—	—	—
014	3,750	912	2.39	971	2.76	1028	3.14	1083	3.54	1135	3.95	1185	4.36
	4,300	928	2.75	982	3.13	1036	3.53	1087	3.94	1138	4.37	1187	4.81
	5,000	956	3.30	1007	3.71	1056	4.13	1104	4.56	1151	5.00	1196	5.46
	5,700	990	3.96	1039	4.40	1086	4.85	1130	5.31	1174	5.78	—	—
	6,250	1019	4.54	1067	5.02	1112	5.50	1156	5.99	1198	6.49	—	—
016	4,500	912	2.75	967	3.12	1019	3.52	1070	3.92	1120	4.35	1168	4.79
	5,300	942	3.34	992	3.76	1041	4.18	1088	4.61	1134	5.06	1179	5.52
	6,000	971	3.95	1020	4.40	1067	4.86	1112	5.33	1156	5.81	1198	6.29
	6,800	1005	4.72	1054	5.23	1101	5.75	1145	6.27	1187	6.79	—	—
	7,500	1036	5.48	1084	6.04	1131	6.61	1174	7.17	—	—	—	—
024	6,000	961	3.86	1011	4.31	1058	4.77	1104	5.24	1147	5.71	—	—
	7,000	1000	4.79	1050	5.32	1097	5.85	1142	6.38	1184	6.91	—	—
	8,000	1041	5.88	1090	6.47	1137	7.07	1181	7.67	—	—	—	—
	9,000	1086	7.21	1133	7.82	1178	8.47	—	—	—	—	—	—
	10,000	1138	8.83	1180	9.46	—	—	—	—	—	—	—	—
028	7,500	874	5.33	897	5.91	940	6.80	990	7.50	—	—	—	—
	8,750	886	5.36	930	6.13	982	7.32	1020	8.10	—	—	—	—
	10,000	930	6.60	969	7.20	1007	7.89	1045	8.71	—	—	—	—
	11,250	976	8.25	1014	8.86	1051	9.49	1086	10.17	—	—	—	—
	12,500	1023	10.20	1061	10.88	1097	11.56	—	—	—	—	—	—
034	9,000	881	5.37	923	6.03	967	6.89	1020	8.25	—	—	—	—
	10,500	930	6.97	970	7.55	1008	8.17	1045	8.86	—	—	—	—
	12,000	981	9.02	1021	9.67	1058	10.32	1094	10.97	—	—	—	—
	13,500	1035	11.45	1072	12.20	—	—	—	—	—	—	—	—
	15,000	1093	14.35	—	—	—	—	—	—	—	—	—	—

See Legend and Notes on page 52.

Performance data (cont)

FAN PERFORMANCE DATA — 40RM WITH HIGH CAPACITY COIL — 0-300 Pa ESP — 60 Hz, SI

UNIT 40RM (High Capacity 4-Row Coil)	AIRFLOW (L/s)	EXTERNAL STATIC PRESSURE (Pa)													
		0		50		100		150		200		250		300	
		r/s	kW	r/s	kW	r/s	kW	r/s	kW	r/s	kW	r/s	kW	r/s	kW
007	850	6.98	0.16	7.86	0.19	9.40	0.27	10.81	0.37	12.11	0.47	13.29	0.57	14.36	0.69
	990	7.84	0.23	8.64	0.27	10.03	0.36	11.31	0.46	12.52	0.57	13.65	0.69	14.71	0.81
	1130	8.73	0.33	9.46	0.38	10.75	0.48	11.91	0.59	13.01	0.70	14.07	0.83	15.08	0.96
	1270	9.63	0.45	10.31	0.51	11.51	0.62	12.58	0.74	13.60	0.86	14.58	0.99	15.53	1.13
	1420	10.55	0.61	11.18	0.67	12.30	0.80	13.31	0.92	14.26	1.05	15.17	1.19	16.05	1.33
008	1060	4.83	0.07	8.50	0.29	9.91	0.38	11.15	0.48	12.32	0.59	13.44	0.71	14.50	0.83
	1230	5.81	0.14	9.35	0.41	10.67	0.52	11.81	0.63	12.88	0.74	13.90	0.87	14.89	1.00
	1420	9.65	0.52	10.35	0.59	11.59	0.71	12.66	0.84	13.64	0.97	14.57	1.10	15.47	1.24
	1600	10.76	0.74	11.39	0.81	12.54	0.96	13.55	1.10	14.48	1.24	15.34	1.39	16.17	1.53
	1770	11.74	0.97	12.32	1.06	13.40	1.22	14.37	1.38	15.25	1.53	16.07	1.69	16.86	1.85
012	1420	7.02	0.26	9.86	0.54	11.17	0.67	12.28	0.79	13.29	0.92	14.23	1.05	15.14	1.19
	1650	10.44	0.73	11.06	0.80	12.25	0.96	13.31	1.10	14.25	1.25	15.13	1.39	15.96	1.54
	1890	11.76	1.06	12.31	1.15	13.38	1.32	14.37	1.49	15.28	1.66	16.11	1.83	16.89	1.99
	2120	13.10	1.48	13.59	1.58	14.55	1.78	15.48	1.97	16.34	2.17	17.14	2.35	17.89	2.54
	2360	14.45	2.01	14.89	2.12	15.76	2.34	16.62	2.56	17.43	2.77	18.20	2.98	18.92	3.19
014	1770	6.84	0.32	7.78	0.41	9.46	0.62	10.82	0.83	12.02	1.05	13.13	1.28	14.19	1.53
	2030	7.58	0.46	8.40	0.55	9.98	0.78	11.31	1.03	12.47	1.27	13.52	1.52	14.51	1.78
	2360	8.57	0.69	9.27	0.79	10.68	1.04	11.96	1.31	13.09	1.60	14.11	1.88	15.05	2.17
	2690	9.59	0.99	10.20	1.10	11.44	1.36	12.64	1.66	13.74	1.98	14.74	2.30	15.65	2.63
	2950	10.40	1.28	10.96	1.39	12.09	1.67	13.21	1.98	14.27	2.33	15.25	2.68	16.15	3.03
016	2120	7.28	0.45	8.05	0.54	9.60	0.75	11.00	1.00	12.21	1.26	13.28	1.51	14.27	1.78
	2500	8.32	0.71	8.97	0.80	10.29	1.02	11.59	1.30	12.78	1.59	13.84	1.89	14.80	2.19
	2830	9.25	1.00	9.83	1.10	10.99	1.33	12.16	1.62	13.29	1.93	14.34	2.27	15.30	2.60
	3210	10.33	1.42	10.85	1.54	11.87	1.78	12.90	2.07	13.93	2.40	14.93	2.76	15.87	3.14
	3540	11.29	1.88	11.77	2.01	12.69	2.27	13.62	2.56	14.56	2.90	15.49	3.27	16.40	3.67
024	2830	9.03	0.96	9.62	1.06	10.77	1.29	11.94	1.56	13.08	1.87	14.15	2.20	15.12	2.54
	3300	10.34	1.48	10.86	1.60	11.85	1.85	12.84	2.12	13.85	2.45	14.84	2.80	15.78	3.18
	3780	11.67	2.17	12.14	2.31	13.02	2.58	13.88	2.87	14.75	3.20	15.63	3.56	16.50	3.96
	4250	13.01	3.05	13.44	3.21	14.23	3.51	15.00	3.82	15.77	4.16	16.54	4.53	17.32	4.94
	4720	14.36	4.15	14.75	4.32	15.48	4.66	16.18	4.99	16.87	5.35	17.56	5.73	18.26	6.14
028	3540	7.94	1.04	8.51	1.18	9.65	1.48	10.73	1.79	11.68	2.10	12.53	2.46	13.40	2.95
	4130	9.08	1.59	9.57	1.75	10.55	2.10	11.52	2.46	12.45	2.81	13.28	3.17	14.04	3.55
	4720	10.24	2.33	10.68	2.51	11.53	2.88	12.39	3.29	13.24	3.70	14.05	4.11	14.80	4.51
	5310	11.42	3.26	11.81	3.46	12.57	3.88	13.33	4.32	14.09	4.77	14.85	5.24	15.58	5.70
	5900	12.60	4.42	12.96	4.64	13.65	5.09	14.33	5.57	15.01	6.07	15.70	6.58	16.38	7.10
034	4250	8.99	1.62	9.49	1.78	10.44	2.12	11.39	2.49	12.32	2.86	13.18	3.22	13.95	3.59
	4960	10.33	2.51	10.77	2.70	11.59	3.08	12.40	3.49	13.22	3.92	14.03	4.35	14.79	4.78
	5660	11.68	3.68	12.07	3.90	12.81	4.33	13.52	4.77	14.23	5.25	14.95	5.74	15.66	6.23
	6370	13.04	5.18	13.40	5.42	14.07	5.90	14.71	6.39	15.34	6.90	15.97	7.44	16.61	7.98
	7080	14.42	7.05	14.74	7.31	15.36	7.84	15.94	8.38	16.51	8.93	17.08	9.51	17.65	10.10

See Legend and Notes on page 52.

FAN PERFORMANCE DATA — 40RM WITH HIGH CAPACITY COIL — 350-600 Pa ESP — 60 Hz, SI

UNIT 40RM (High Capacity 4-Row Coil)	AIRFLOW (L/s)	EXTERNAL STATIC PRESSURE (Pa)											
		350		400		450		500		550		600	
		r/s	kW	r/s	kW	r/s	kW	r/s	kW	r/s	kW	r/s	kW
007	850	15.34	0.80	16.25	0.92	17.10	1.03	17.90	1.16	**18.66**	**1.28**	**19.39**	**1.41**
	990	15.69	0.94	16.61	1.07	17.47	1.20	**18.28**	**1.33**	**19.04**	**1.47**	**19.77**	**1.61**
	1130	16.04	1.09	16.95	1.23	17.81	1.38	**18.63**	**1.53**	**19.40**	**1.67**	—	—
	1270	16.44	1.27	17.32	1.42	**18.17**	**1.58**	**18.97**	**1.74**	**19.75**	**1.90**	—	—
	1420	16.91	1.49	17.75	1.64	**18.56**	**1.81**	**19.34**	**1.97**	—	—	—	—
008	1060	15.50	0.96	16.43	1.10	17.31	1.23	18.14	1.37	18.93	1.51	19.68	1.66
	1230	15.84	1.14	16.75	1.28	17.62	1.43	18.45	1.58	19.24	1.74	—	—
	1420	16.34	1.38	17.19	1.54	18.01	1.70	18.81	1.86	19.59	2.03	—	—
	1600	16.97	1.69	17.76	1.85	18.52	2.02	19.27	2.19	—	—	—	—
	1770	17.61	2.01	18.35	2.18	19.07	2.35	19.77	2.53	—	—	—	—
012	1420	16.02	1.33	16.87	1.48	17.71	1.64	18.52	1.80	19.30	1.97	—	—
	1650	16.76	1.70	17.53	1.85	18.29	2.02	19.04	2.19	19.77	2.37	—	—
	1890	17.64	2.16	18.35	2.33	19.05	2.51	19.74	2.69	—	—	—	—
	2120	18.60	2.73	19.28	2.91	19.93	3.10	—	—	—	—	—	—
	2360	19.61	3.40	—	—	—	—	—	—	—	—	—	—
014	1770	15.21	1.78	16.19	2.06	17.13	2.34	18.04	2.64	**18.91**	**2.94**	**19.75**	**3.25**
	2030	15.46	2.05	16.37	2.33	17.26	2.63	18.12	2.94	**18.96**	**3.26**	**19.78**	**3.59**
	2360	15.94	2.46	16.78	2.77	17.60	3.08	**18.40**	**3.40**	**19.18**	**3.73**	**19.94**	**4.07**
	2690	16.51	2.95	17.32	3.28	18.09	3.62	**18.84**	**3.96**	**19.57**	**4.31**	—	—
	2950	16.99	3.39	17.78	3.74	**18.54**	**4.10**	**19.26**	**4.47**	**19.96**	**4.84**	—	—
016	2120	15.21	2.05	16.11	2.33	16.98	2.62	17.83	2.93	18.66	3.24	19.47	3.57
	2500	15.69	2.49	16.54	2.80	17.35	3.12	18.14	3.44	18.90	3.77	**19.64**	**4.11**
	2830	16.18	2.94	17.01	3.28	17.79	3.63	18.54	3.97	19.27	4.33	**19.97**	**4.69**
	3210	16.75	3.52	17.57	3.90	18.34	4.29	19.08	4.67	**19.78**	**5.06**	—	—
	3540	17.26	4.09	18.07	4.50	18.84	4.93	**19.57**	**5.35**	—	—	—	—
024	2830	16.01	2.88	16.85	3.22	17.64	3.56	18.39	3.91	19.12	4.26	—	—
	3300	16.67	3.57	17.50	3.96	18.28	4.36	19.03	4.75	19.73	5.15	—	—
	3780	17.35	4.39	18.17	4.82	18.95	5.27	19.68	5.72	—	—	—	—
	4250	18.11	5.37	18.88	5.83	19.63	6.31	—	—	—	—	—	—
	4720	18.96	6.58	19.67	7.05	—	—	—	—	—	—	—	—
028	3540	14.57	3.97	14.95	4.41	15.67	5.07	16.50	5.59	—	—	—	—
	4130	14.76	3.99	15.51	4.57	16.36	5.46	17.00	6.04	—	—	—	—
	4720	15.49	4.92	16.15	5.37	16.78	5.88	17.42	6.50	—	—	—	—
	5310	16.26	6.15	16.91	6.61	17.51	7.08	**18.10**	**7.58**	—	—	—	—
	5900	17.04	7.61	17.68	8.11	**18.28**	**8.62**	—	—	—	—	—	—
034	4250	14.68	4.00	15.38	4.49	16.12	5.14	17.00	6.15	—	—	—	—
	4960	15.51	5.20	16.17	5.63	16.80	6.09	17.41	6.61	—	—	—	—
	5660	16.35	6.72	17.01	7.21	17.64	7.69	**18.23**	**8.18**	—	—	—	—
	6370	17.24	8.54	17.87	9.10	—	—	—	—	—	—	—	—
	7080	18.22	10.70	—	—	—	—	—	—	—	—	—	—

See Legend and Notes on page 52.

Performance data (cont)

FAN PERFORMANCE DATA — 40RM WITH HIGH CAPACITY COIL — 0-300 Pa ESP — 50 Hz, SI

UNIT 40RM (High Capacity 4-Row Coil)	AIRFLOW (L/s)	EXTERNAL STATIC PRESSURE (Pa)													
		0		50		100		150		200		250		300	
		r/s	kW	r/s	kW	r/s	kW	r/s	kW	r/s	kW	r/s	kW	r/s	kW
007	850	6.98	0.16	7.86	0.19	9.40	0.27	10.81	0.37	12.11	0.47	13.29	0.57	14.36	0.69
	990	7.84	0.23	8.64	0.27	10.03	0.36	11.31	0.46	12.52	0.57	13.65	0.69	14.71	0.81
	1130	8.73	0.33	9.46	0.38	10.75	0.48	11.91	0.59	13.01	0.70	14.07	0.83	15.08	0.96
	1270	9.63	0.45	10.31	0.51	11.51	0.62	12.58	0.74	13.60	0.86	14.58	0.99	15.53	1.13
	1420	10.55	0.61	11.18	0.67	12.30	0.80	13.31	0.92	14.26	1.05	15.17	1.19	16.05	1.33
008	1060	4.83	0.07	8.50	0.29	9.91	0.38	11.15	0.48	12.32	0.59	13.44	0.71	14.50	0.83
	1230	5.81	0.14	9.35	0.41	10.67	0.52	11.81	0.63	12.88	0.74	13.90	0.87	14.89	1.00
	1420	9.65	0.52	10.35	0.59	11.59	0.71	12.66	0.84	13.64	0.97	14.57	1.10	15.47	1.24
	1600	10.76	0.74	11.39	0.81	12.54	0.96	13.55	1.10	14.48	1.24	15.34	1.39	16.17	1.53
	1770	11.74	0.97	12.32	1.06	13.40	1.22	14.37	1.38	15.25	1.53	16.07	1.69	16.86	1.85
012	1420	7.02	0.26	9.86	0.54	11.17	0.67	12.28	0.79	13.29	0.92	14.23	1.05	15.14	1.19
	1650	10.44	0.73	11.06	0.80	12.25	0.96	13.31	1.10	14.25	1.25	15.13	1.39	15.96	1.54
	1890	11.76	1.06	12.31	1.15	13.38	1.32	14.37	1.49	15.28	1.66	16.11	1.83	16.89	1.99
	2120	13.10	1.48	13.59	1.58	14.55	1.78	15.48	1.97	16.34	2.17	17.14	2.35	17.89	2.54
	2360	14.45	2.01	14.89	2.12	15.76	2.34	16.62	2.56	17.43	2.77	18.20	2.98	18.92	3.19
014	1770	6.84	0.32	7.78	0.41	9.46	0.62	10.82	0.83	12.02	1.05	13.13	1.28	14.19	1.53
	2030	7.58	0.46	8.40	0.55	9.98	0.78	11.31	1.03	12.47	1.27	13.52	1.52	14.51	1.78
	2360	8.57	0.69	9.27	0.79	10.68	1.04	11.96	1.31	13.09	1.60	14.11	1.88	15.05	2.17
	2690	9.59	0.99	10.20	1.10	11.44	1.36	12.64	1.66	13.74	1.98	14.74	2.30	15.65	2.63
	2950	10.40	1.28	10.96	1.39	12.09	1.67	13.21	1.98	14.27	2.33	15.25	2.68	16.15	3.03
016	2120	7.28	0.45	8.05	0.54	9.60	0.75	11.00	1.00	12.21	1.26	13.28	1.51	14.27	1.78
	2500	8.32	0.71	8.97	0.80	10.29	1.02	11.59	1.30	12.78	1.59	13.84	1.89	14.80	2.19
	2830	9.25	1.00	9.83	1.10	10.99	1.33	12.16	1.62	13.29	1.93	14.34	2.27	15.30	2.60
	3210	10.33	1.42	10.85	1.54	11.87	1.78	12.90	2.07	13.93	2.40	14.93	2.76	15.87	3.14
	3540	11.29	1.88	11.77	2.01	12.69	2.27	13.62	2.56	14.56	2.90	15.49	3.27	16.40	3.67
024	2830	9.03	0.96	9.62	1.06	10.77	1.29	11.94	1.56	13.08	1.87	14.15	2.20	15.12	2.54
	3300	10.34	1.48	10.86	1.60	11.85	1.85	12.84	2.12	13.85	2.45	14.84	2.80	15.78	3.18
	3780	11.67	2.17	12.14	2.31	13.02	2.58	13.88	2.87	14.75	3.20	15.63	3.56	16.50	3.96
	4250	13.01	3.05	13.44	3.21	14.23	3.51	15.00	3.82	15.77	4.16	16.54	4.53	17.32	4.94
	4720	14.36	4.15	14.75	4.32	15.48	4.66	16.18	4.99	16.87	5.35	17.56	5.73	18.26	6.14
028	3540	7.94	1.04	8.51	1.18	9.65	1.48	10.73	1.79	11.68	2.10	12.53	2.46	13.40	2.95
	4130	9.08	1.59	9.57	1.75	10.55	2.10	11.52	2.46	12.45	2.81	13.28	3.17	14.04	3.55
	4720	10.24	2.33	10.68	2.51	11.53	2.88	12.39	3.29	13.24	3.70	14.05	4.11	14.80	4.51
	5310	11.42	3.26	11.81	3.46	12.57	3.88	13.33	4.32	14.09	4.77	14.85	5.24	15.58	5.70
	5900	12.60	4.42	12.96	4.64	13.65	5.09	14.33	5.57	15.01	6.07	15.70	6.58	16.38	7.10
034	4250	8.99	1.62	9.49	1.78	10.44	2.12	11.39	2.49	12.32	2.86	13.18	3.22	13.95	3.59
	4960	10.33	2.51	10.77	2.70	11.59	3.08	12.40	3.49	13.22	3.92	14.03	4.35	14.79	4.78
	5660	11.68	3.68	12.07	3.90	12.81	4.33	13.52	4.77	14.23	5.25	14.95	5.74	15.66	6.23
	6370	13.04	5.18	13.40	5.42	14.07	5.90	14.71	6.39	15.34	6.90	15.97	7.44	16.61	7.98
	7080	14.42	7.05	14.74	7.31	15.36	7.84	15.94	8.38	16.51	8.93	17.08	9.51	17.65	10.10

See Legend and Notes on page 52.

FAN PERFORMANCE DATA — 40RM WITH HIGH CAPACITY COIL — 350-600 Pa ESP — 50 Hz, SI

UNIT 40RM (High Capacity 4-Row Coil)	AIRFLOW (L/s)	EXTERNAL STATIC PRESSURE (Pa)											
		350		400		450		500		550		600	
		r/s	kW	r/s	kW	r/s	kW	r/s	kW	r/s	kW	r/s	kW
007	850	15.34	0.80	16.25	0.92	17.10	1.03	**17.90**	**1.16**	**18.66**	**1.28**	**19.39**	**1.41**
	990	15.69	0.94	16.61	1.07	**17.47**	**1.20**	**18.28**	**1.33**	**19.04**	**1.47**	**19.77**	**1.61**
	1130	16.04	1.09	16.95	1.23	**17.81**	**1.38**	**18.63**	**1.53**	**19.40**	**1.67**	—	—
	1270	16.44	1.27	17.32	1.42	**18.17**	**1.58**	**18.97**	**1.74**	**19.75**	**1.90**	—	—
	1420	16.91	1.49	**17.75**	**1.64**	**18.56**	**1.81**	**19.34**	**1.97**	—	—	—	—
008	1060	15.50	0.96	16.43	1.10	17.31	1.23	18.14	1.37	18.93	1.51	**19.68**	**1.66**
	1230	15.84	1.14	16.75	1.28	17.62	1.43	18.45	1.58	**19.24**	**1.74**	—	—
	1420	16.34	1.38	17.19	1.54	18.01	1.70	18.81	1.86	**19.59**	**2.03**	—	—
	1600	16.97	1.69	17.76	1.85	18.52	2.02	**19.27**	**2.19**	—	—	—	—
	1770	17.61	2.01	18.35	2.18	**19.07**	**2.35**	**19.77**	**2.53**	—	—	—	—
012	1420	16.02	1.33	16.87	1.48	17.71	1.64	18.52	1.80	19.30	1.97	—	—
	1650	16.76	1.70	17.53	1.85	18.29	2.02	19.04	2.19	19.77	2.37	—	—
	1890	17.64	2.16	18.35	2.33	19.05	2.51	19.74	2.69	—	—	—	—
	2120	18.60	2.73	19.28	2.91	19.93	3.10	—	—	—	—	—	—
	2360	19.61	3.40	—	—	—	—	—	—	—	—	—	—
014	1770	15.21	1.78	16.19	2.06	17.13	2.34	**18.04**	**2.64**	**18.91**	**2.94**	**19.75**	**3.25**
	2030	15.46	2.05	16.37	2.33	17.26	2.63	**18.12**	**2.94**	**18.96**	**3.26**	**19.78**	**3.59**
	2360	15.94	2.46	16.78	2.77	**17.60**	**3.08**	**18.40**	**3.40**	**19.18**	**3.73**	**19.94**	**4.07**
	2690	16.51	2.95	17.32	3.28	**18.09**	**3.62**	**18.84**	**3.96**	**19.57**	**4.31**	—	—
	2950	16.99	3.39	**17.78**	**3.74**	**18.54**	**4.10**	**19.26**	**4.47**	**19.96**	**4.84**	—	—
016	2120	15.21	2.05	16.11	2.33	**16.98**	**2.62**	**17.83**	**2.93**	**18.66**	**3.24**	**19.47**	**3.57**
	2500	15.69	2.49	16.54	2.80	**17.35**	**3.12**	**18.14**	**3.44**	**18.90**	**3.77**	**19.64**	**4.11**
	2830	16.18	2.94	**17.01**	**3.28**	**17.79**	**3.63**	**18.54**	**3.97**	**19.27**	**4.33**	**19.97**	**4.69**
	3210	16.75	3.52	**17.57**	**3.90**	**18.34**	**4.29**	**19.08**	**4.67**	**19.78**	**5.06**	—	—
	3540	**17.26**	**4.09**	**18.07**	**4.50**	**18.84**	**4.93**	**19.57**	**5.35**	—	—	—	—
024	2830	16.01	2.88	16.85	3.22	17.64	3.56	18.39	3.91	**19.12**	**4.26**	—	—
	3300	16.67	3.57	17.50	3.96	18.28	4.36	**19.03**	**4.75**	**19.73**	**5.15**	—	—
	3780	17.35	4.39	18.17	4.82	**18.95**	**5.27**	**19.68**	**5.72**	—	—	—	—
	4250	18.11	5.37	**18.88**	**5.83**	**19.63**	**6.31**	—	—	—	—	—	—
	4720	**18.96**	**6.58**	**19.67**	**7.05**	—	—	—	—	—	—	—	—
028	3540	14.57	3.97	14.95	4.41	15.67	5.07	**16.50**	**5.59**	—	—	—	—
	4130	14.76	3.99	15.51	4.57	**16.36**	**5.46**	**17.00**	**6.04**	—	—	—	—
	4720	15.49	4.92	**16.15**	**5.37**	**16.78**	**5.88**	**17.42**	**6.50**	—	—	—	—
	5310	**16.26**	**6.15**	**16.91**	**6.61**	**17.51**	**7.08**	**18.10**	**7.58**	—	—	—	—
	5900	**17.04**	**7.61**	**17.68**	**8.11**	**18.28**	**8.62**	—	—	—	—	—	—
034	4250	**14.68**	**4.00**	**15.38**	**4.49**	**16.12**	**5.14**	**17.00**	**6.15**	—	—	—	—
	4960	**15.51**	**5.20**	**16.17**	**5.63**	**16.80**	**6.09**	**17.41**	**6.61**	—	—	—	—
	5660	**16.35**	**6.72**	**17.01**	**7.21**	**17.64**	**7.69**	**18.23**	**8.18**	—	—	—	—
	6370	**17.24**	**8.54**	**17.87**	**9.10**	—	—	—	—	—	—	—	—
	7080	**18.22**	**10.70**	—	—	—	—	—	—	—	—	—	—

See Legend and Notes on page 52.

Performance data (cont)

LEGEND AND NOTES FOR STANDARD AND HIGH CAPACITY COIL FAN PERFORMANCE DATA TABLES (English)

LEGEND

Bhp — Brake Horsepower Input to Fan
ESP — External Static Pressure

Bold indicates field-supplied drive is required.
Plain type indicates standard motor and standard drive.
Underline indicates a different motor and drive combination other than the standard motor and standard drive combination is required. Refer to fan motor and drive tables, pages 66-73, to complete selection.

NOTES:
1. Maximum allowable fan speed is 1100 rpm for unit sizes 028 and 034; 1200 rpm for all other sizes.
2. Fan performance is based on deductions for wet coil, clean 2-in. filters, and unit casing. See table at right for factory-supplied filter pressure drop.
3. For 60 Hz units, the medium-static drive and standard motor combination is not available for 028 size. For 50 Hz units, the medium-static drive and standard motor combination is not available for 016-028 sizes. Use alternate motor if medium-static drive is required for these sizes.

FACTORY-SUPPLIED FILTER PRESSURE DROP — ENGLISH

UNIT	AIRFLOW (Cfm)	PRESSURE DROP (in. wg)
40RM 007	1,800 2,400 3,000	0.05 0.08 0.11
40RM 40RMQ 40RMS 008	2,250 3,000 3,750	0.07 0.11 0.15
40RM 40RMQ 40RMS 012	3,000 4,000 5,000	0.11 0.17 0.23
40RM 40RMS 014	3,750 5,000 6,250	0.06 0.10 0.13
40RM 40RMQ 40RMS 016	4,500 6,000 7,500	0.08 0.12 0.17
40RM 40RMQ 40RMS 024	6,000 8,000 10,000	0.12 0.19 0.26
40RM 40RMQ 40RMS 028	7,500 10,000 12,500	0.15 0.22 0.30
40RM 40RMS 034	9,000 12,000 15,000	0.19 0.29 0.40

LEGEND AND NOTES FOR STANDARD AND HIGH CAPACITY COIL FAN PERFORMANCE DATA TABLES (SI)

LEGEND

ESP — External Static Pressure

Bold indicates field-supplied drive is required.
Plain type indicates standard motor and standard drive.
Underline indicates a different motor and drive combination other than the standard motor and standard drive combination is required. Refer to fan motor and drive tables, pages 66-73, to complete the selection.

NOTES:
1. Maximum allowable fan speed is 18.3 r/s for unit sizes 028 and 034; 20 r/s for all other sizes.
2. Fan performance is based on deductions for wet coil, clean 51-mm filters, and unit casing. See table at right for factory-supplied filter pressure drop.
3. For 60 Hz units, the medium-static drive and standard motor combination is not available for 028 size. For 50 Hz units, the medium-static drive and standard motor combination is not available for 016-028 sizes. Use alternate motor if medium-static drive is required for these sizes.

FACTORY-SUPPLIED FILTER PRESSURE DROP — SI

UNIT	AIRFLOW (L/s)	PRESSURE DROP (Pa)
40RM 007	850 1150 1450	13 20 28
40RM 40RMQ 40RMS 008	1000 1400 1800	17 27 38
40RM 40RMQ 40RMS 012	1450 1900 2350	28 42 56
40RM 40RMS 014	1750 2350 2950	15 24 33
40RM 40RMQ 40RMS 016	2100 2800 3500	20 30 42
40RM 40RMQ 40RMS 024	2900 3800 4700	32 47 64
40RM 40RMQ 40RMS 028	3500 4700 5900	36 55 76
40RM 40RMS 034	4250 5650 7050	47 71 98

ACCESSORY PLENUM AIR THROW DATA — ENGLISH (Ft)

UNIT	AIRFLOW (Cfm)	VANE DEFLECTION		
		Straight	21½°	45°
40RM 007	2,400	39	33	24
40RM 40RMQ 40RMS 008	3,000	45	38	28
40RMS 010	3,400	49	41	30
40RM 40RMQ 40RMS 012	4,000	55	46	33
40RM 40RMS 014	5,000	45	38	28
40RM 40RMQ 40RMS 016	6,000	50	43	31
40RM 40RMQ 40RMS 024	8,000	60	51	37
40RM 40RMQ 40RMS 028	10,000	76	65	47
40RM 40RMS 034	12,000	85	72	52

NOTE: Throw distances shown are for 75 fpm terminal velocity. Use the following multipliers to determine throw values for other terminal velocities.

TERMINAL VELOCITY (Fpm)	THROW FACTOR
50	X 1.50
100	X 0.75
150	X 0.50

ACCESSORY PLENUM AIR THROW DATA — SI (m)

UNIT	AIRFLOW (L/s)	VANE DEFLECTION		
		Straight	21½°	45°
40RM 007	1150	11.71	9.91	7.20
40RM 40RMQ 40RMS 008	1400	13.87	11.71	8.63
40RMS 010	1600	14.98	12.53	9.17
40RM 40RMQ 40RMS 012	1900	16.65	13.93	9.99
40RM 40RMS 014	2350	13.77	11.63	8.57
40RM 40RMQ 40RMS 016	2800	15.41	13.25	9.55
40RM 40RMQ 40RMS 024	3800	18.17	15.44	11.20
40RM 40RMQ 40RMS 028	4700	23.26	19.89	14.38
40RM 40RMS 034	5650	25.97	22.00	15.89

NOTE: Throw distances shown are for 0.381 m/sec terminal velocity. Use the following multipliers to determine throw values for other terminal velocities.

TERMINAL VELOCITY (m/sec)	THROW FACTOR
0.254	X 1.50
0.508	X 0.75
0.762	X 0.50

Performance data (cont)

ACCESSORY PRESSURE DROP — ENGLISH (in. wg)

UNIT	AIRFLOW (Cfm)	DISCHARGE PLENUM	RETURN AIR GRILLE	HEATING COILS			ECONOMIZER
				Hot Water	Steam	Electric	
40RM 007	1,800	0.06	0.01	0.10	0.10	0.04	0.05
	2,400	0.10	0.01	0.16	0.16	0.06	0.07
	3,000	0.14	0.02	0.23	0.23	0.10	0.09
40RM 40RMQ 40RMS 008	2,250	0.09	0.01	0.15	0.15	0.06	0.06
	3,000	0.14	0.02	0.23	0.23	0.10	0.09
	3,750	0.21	0.03	0.35	0.35	0.15	0.15
40RMS 010	2,550	0.11	0.02	0.18	0.18	0.07	0.07
	3,400	0.17	0.03	0.28	0.28	0.12	0.13
	4,250	0.24	0.04	0.41	0.41	0.19	0.19
40RM 40RMQ 40RMS 012	3,000	0.14	0.02	0.23	0.23	0.10	0.09
	4,000	0.22	0.04	0.37	0.37	0.17	0.17
	5,000	0.32	0.06	0.53	0.53	0.26	0.28
40RM 40RMS 014	3,750	0.07	0.01	0.11	0.11	0.04	0.05
	5,000	0.12	0.02	0.17	0.17	0.07	0.07
	6,250	0.17	0.02	0.25	0.25	0.11	0.11
40RM 40RMQ 40RMS 016	4,500	0.10	0.01	0.15	0.15	0.06	0.06
	6,000	0.16	0.02	0.23	0.23	0.10	0.09
	7,500	0.23	0.03	0.33	0.33	0.15	0.15
40RM 40RMQ 40RMS 024	6,000	0.16	0.02	0.23	0.23	0.10	0.09
	8,000	0.26	0.04	0.37	0.37	0.17	0.17
	10,000	0.37	0.06	0.53	0.53	0.26	0.28
40RM 40RMQ 40RMS 028	7,500	0.15	0.02	0.28	0.28	0.09	0.06
	10,000	0.24	0.03	0.44	0.44	0.16	0.09
	12,500	0.34	0.05	0.63	0.63	0.24	0.14
40RM 40RMS 034	9,000	0.20	0.03	0.37	0.37	0.13	0.08
	12,000	0.32	0.05	0.59	0.59	0.22	0.14
	15,000	0.46	0.07	0.85	0.85	0.34	0.21

ACCESSORY PRESSURE DROP — SI (Pa)

UNIT	AIRFLOW (L/s)	DISCHARGE PLENUM	RETURN AIR GRILLE	HEATING COILS			ECONOMIZER
				Hot Water	Steam	Electric	
40RM 007	850	15	2	25	25	9	12
	1150	25	3	41	41	16	18
	1450	36	5	60	60	26	23
40RM 40RMQ 40RMS 008	1000	20	2	33	33	12	13
	1400	34	5	57	57	24	22
	1800	51	8	85	85	39	39
40RMS 010	1200	26	5	44	44	18	17
	1600	42	7	70	70	31	32
	2000	61	10	101	101	48	47
40RM 40RMQ 40RMS 012	1450	36	5	60	60	26	23
	1900	56	10	93	93	43	43
	2350	79	15	132	132	65	69
40RM 40RMS 014	1750	18	2	26	26	10	12
	2350	29	5	43	43	17	17
	2950	43	5	62	62	26	27
40RM 40RMQ 40RMS 016	2100	24	2	36	36	14	15
	2800	39	5	57	57	24	22
	3500	56	7	82	82	37	37
40RM 40RMQ 40RMS 024	2900	41	5	60	60	26	23
	3800	64	10	93	93	43	43
	4700	91	15	132	132	65	69
40RM 40RMQ 40RMS 028	3500	37	5	67	67	22	15
	4700	59	7	109	109	39	22
	5900	86	12	157	157	60	35
40RM 40RMS 034	4250	50	7	92	92	32	20
	5650	80	12	147	147	56	35
	7050	114	17	210	210	85	52

Electrical data

STANDARD MOTORS

UNIT	V*-PH-Hz	VOLTAGE LIMITS	FAN MOTOR		POWER SUPPLY	
			Hp (kW)	FLA	Minimum Circuit Amps	MOCP
40RM 007	208/230-1-60	187-253	1.3 (0.97)	7.6	9.5	15
	208/230-3-60	187-253	2.4 (1.79)	5.2	6.5	15
	460-3-60	414-506	2.4 (1.79)	2.6	3.3	15
	575-3-60	518-632	1.0 (0.75)	1.4	1.8	15
	230-3-50	207-253	2.4 (1.79)	5.2	6.5	15
	400-3-50	360-440	2.4 (1.79)	2.6	3.3	15
40RM 40RMQ 40RMS 008	208/230-1-60	187-253	2.4 (1.79)	11.0	13.8	20
	208/230-3-60	187-253	2.4 (1.79)	5.2	6.5	15
	460-3-60	414-506	2.4 (1.79)	2.6	3.3	15
	575-3-60	518-632	2.0 (1.49)	2.3	2.9	15
	230-3-50	207-253	2.4 (1.79)	5.2	6.5	15
	400-3-50	360-440	2.4 (1.79)	2.6	3.3	15
40RMS 010	208/230-1-60	187-253	2.4 (1.79)	11.0	13.8	20
	208/230-3-60	187-253	2.4 (1.79)	5.2	6.5	15
	460-3-60	414-506	2.4 (1.79)	2.6	3.3	15
	575-3-60	518-632	2.0 (1.49)	2.3	2.9	15
	230-3-50	207-253	2.4 (1.79)	5.2	6.5	15
	400-3-50	360-440	2.4 (1.79)	2.6	3.3	15
40RM 40RMQ 40RMS 012	208/230-3-60	187-253	2.4 (1.79)	5.2	6.5	15
	460-3-60	414-506	2.4 (1.79)	2.6	3.3	15
	575-3-60	518-632	2.0 (1.49)	2.3	2.9	15
	230-3-50	207-253	2.9 (2.16)	7.5	9.4	15
	400-3-50	360-440	2.9 (2.16)	3.4	4.3	15
40RM 40RMS 014	208/230-3-60	187-253	2.9 (2.16)	7.5	9.4	15
	460-3-60	414-506	2.9 (2.16)	3.4	4.3	15
	575-3-60	518-632	3.0 (2.24)	3.8	4.8	15
	230-3-50	207-253	2.9 (2.16)	7.5	9.4	15
	400-3-50	360-440	2.9 (2.16)	3.4	4.3	15
40RM 40RMQ 40RMS 016	208/230-3-60	187-253	3.7 (2.76)	10.2	12.8	20
	460-3-60	414-506	3.7 (2.76)	4.8	6.0	15
	575-3-60	518-632	3.0 (2.24)	3.8	4.8	15
	230-3-50	207-253	2.9 (2.16)	7.5	9.4	15
	400-3-50	360-440	2.9 (2.16)	3.4	4.3	15
40RM 40RMQ 40RMS 024	208/230-3-60	187-253	5.0 (3.73)	14.6/12.8	18.3/16.0	30/25
	460-3-60	414-506	5.0 (3.73)	6.4	8.0	15
	575-3-60	518-632	5.0 (3.73)	5.1	6.4	15
	230-3-50	207-253	5.0 (3.73)	13.2	16.5	25
	400-3-50	360-440	5.0 (3.73)	7.6	9.5	15
40RM 40RMQ 40RMS 028	208/230-3-60	187-253	7.5 (5.59)	21.5/19.4	26.9/24.3	45/40
	460-3-60	414-506	7.5 (5.59)	9.7	12.1	20
	575-3-60	518-632	7.5 (5.59)	7.8	9.8	15
	230-3-50	207-253	7.5 (5.59)	19.8	24.8	40
	400-3-50	360-440	7.5 (5.59)	11.4	14.3	25
40RM 40RMS 034	208/230-3-60	187-253	10.0 (7.46)	28.2/26.8	35.3/33.5	60/60
	460-3-60	414-506	10.0 (7.46)	13.4	16.8	30
	575-3-60	518-632	10.0 (7.46)	10.3	12.9	20
	230-3-50	207-253	10.0 (7.46)	28.0	35.0	60
	400-3-50	360-440	10.0 (7.46)	16.1	20.1	30

See Legend and Notes on page 56.

Electrical data (cont)

ALTERNATE MOTORS

UNIT	V*-PH-Hz	VOLTAGE LIMITS	FAN MOTOR		POWER SUPPLY	
			Hp (kW)	FLA	Minimum Circuit Amps	MOCP
40RM 007	208/230-1-60	187-253	2.4 (1.79)	11.0	13.8	20
	208/230-3-60	187-253	2.9 (2.16)	7.5	9.4	15
	460-3-60	414-506	2.9 (2.16)	3.4	4.3	15
	575-3-60	518-632	2.0 (1.49)	2.3	2.9	15
	230-3-50	207-253	2.4 (1.79)	5.2	6.5	15
	400-3-50	360-440	2.4 (1.79)	2.6	3.3	15
40RM 40RMQ 40RMS 008	208/230-1-60	187-253	2.4 (1.79)	11.0	13.8	15
	208/230-3-60	187-253	2.9 (2.16)	7.5	9.4	15
	460-3-60	414-506	2.9 (2.16)	3.4	4.3	15
	575-3-60	518-632	3.0 (2.24)	3.8	4.8	15
	230-3-50	207-253	2.9 (2.16)	7.5	9.4	15
	400-3-50	360-440	2.9 (2.16)	3.4	4.3	15
40RMS 010	208/230-1-60	187-253	2.4 (1.79)	11.0	13.8	20
	208/230-3-60	187-253	2.9 (2.16)	7.5	9.4	15
	460-3-60	414-506	2.9 (2.16)	3.4	4.3	15
	575-3-60	518-632	3.0 (2.24)	3.8	4.8	15
	230-3-50	207-253	2.9 (2.16)	7.5	9.4	15
	400-3-50	360-440	2.9 (2.16)	3.4	4.3	15
40RM 40RMQ 40RMS 012	208/230-3-60	187-253	3.7 (2.76)	10.2	12.8	20
	460-3-60	414-506	3.7 (2.76)	4.8	6.0	15
	575-3-60	518-632	3.0 (2.24)	3.8	4.8	15
	230-3-50	207-253	5.0 (3.73)	13.2	16.5	25
	400-3-50	360-440	5.0 (3.73)	7.6	9.5	15
40RM 40RMS 014	208/230-3-60	187-253	3.7 (2.76)	10.2	12.7	20
	460-3-60	414-506	3.7 (2.76)	4.8	6.0	15
	575-3-60	518-632	5.0 (3.73)	5.1	6.4	15
	230-3-50	207-253	5.0 (3.73)	15.2	19.0	30
	400-3-50	360-440	5.0 (3.73)	7.6	9.5	15
40RM 40RMQ 40RMS 016	208/230-3-60	187-253	5.0 (3.73)	14.6/12.8	18.3/16.0	30/25
	460-3-60	414-506	5.0 (3.73)	6.4	8.0	15
	575-3-60	518-632	5.0 (3.73)	5.1	6.4	15
	230-3-50	207-253	5.0 (3.73)	13.2	16.5	25
	400-3-50	360-440	5.0 (3.73)	7.6	9.5	15
40RM 40RMQ 40RMS 024	208/230-3-60	187-253	7.5 (5.59)	21.5/19.4	26.9/24.3	45/40
	460-3-60	414-506	7.5 (5.59)	9.7	12.1	20
	575-3-60	518-632	7.5 (5.59)	7.8	9.8	15
	230-3-50	207-253	7.5 (5.59)	19.8	24.8	40
	400-3-50	360-440	7.5 (5.59)	11.4	14.3	25
40RM 40RMQ 40RMS 028	208/230-3-60	187-253	10.0 (7.46)	28.2/26.8	35.3/33.5	60/60
	460-3-60	414-506	10.0 (7.46)	13.4	16.8	30
	575-3-60	518-632	10.0 (7.46)	10.3	12.9	20
	230-3-50	207-253	10.0 (7.46)	28.0	35.0	60
	400-3-50	360-440	10.0 (7.46)	16.1	20.1	30

LEGEND

FLA — Full Load Amps
MOCP — Maximum Overcurrent Protection

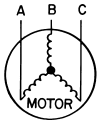
*Motors are designed for satisfactory operation within 10% of nominal voltages shown. Voltages should not exceed the limits shown in the Voltage Limits column.

NOTES:
1. Minimum circuit amps (MCA) and MOCP values are calculated in accordance with NEC (National Electrical Code) (U.S.A. standard), Article 440.
2. Motor FLA values are established in accordance with UL (Underwriters' Laboratories) Standard 1995 (U.S.A. standard).
3. **Unbalanced 3-Phase Supply Voltage**
   Never operate a motor where a phase imbalance in supply voltage is greater than 2%. Use the following formula to determine the percentage of voltage imbalance.

% Voltage Imbalance

$$= 100 \times \frac{\text{max voltage deviation from average voltage}}{\text{average voltage}}$$

Example: Supply voltage is 460-3-60.



AB = 393 v
BC = 403 v
AC = 396 v

$$\text{Average Voltage} = \frac{393 + 403 + 396}{3}$$

$$= \frac{1192}{3}$$

$$= 397$$

Determine maximum deviation from average voltage.
(AB) 397 – 393 = 4 v
(BC) 403 – 397 = 6 v
(AC) 397 – 396 = 1 v

Maximum deviation is 6 v.

Determine percent of voltage imbalance.

$$\text{\% Voltage Imbalance} = 100 \times \frac{6}{397}$$

$$= 1.5\%$$

This amount of phase imbalance is satisfactory as it is below the maximum allowable 2%.

IMPORTANT: If the supply voltage phase imbalance is more than 2%, contact your local electric utility company immediately.

ELECTRIC HEATER DATA

HEATER PART NO.	UNIT	V-PH-Hz	FAN MOTOR			ELECTRIC HEATER(S)					MCA*	MOCP*
						Nominal Capacity (kW)	Actual Capacity (kW)			FLA		
			Hp	kW	FLA		Stage 1	Stage 2	Total			
CAELHEAT001A00	40RM007-012 40RMQ008-012 40RMS008-012	208-3-60	1.3†	0.97	7.6	5	3.8	—	3.8	10.4	22.5	25
			2.4†	1.79	11.0	5	3.8	—	3.8	10.4	26.8	35
			2.4	1.79	5.2	5	3.8	—	3.8	10.4	19.5	20
			2.9	2.16	7.5	5	3.8	—	3.8	10.4	22.4	25
			3.7	2.76	10.2	5	3.8	—	3.8	10.4	25.8	30
		240-3-60	1.3†	0.97	7.6	5	5.0	—	5.0	12.0	24.5	25
			2.4†	1.79	11.0	5	5.0	—	5.0	12.0	28.8	35
			2.4	1.79	5.2	5	5.0	—	5.0	12.0	21.5	25
			2.9	2.16	7.5	5	5.0	—	5.0	12.0	24.4	25
			3.7	2.76	10.2	5	5.0	—	5.0	12.0	27.8	30
		240-3-50	2.4	1.79	5.2	5	5.0	—	5.0	12.0	21.5	25
			2.9	2.16	7.5	5	5.0	—	5.0	12.0	24.4	25
			5.0	3.73	15.2	5	5.0	—	5.0	12.0	34.0	40
CAELHEAT002A00		480-3-60	2.4	1.79	2.6	5	5.0	—	5.0	6.00	10.8	15
			2.9	2.16	3.4	5	5.0	—	5.0	6.00	11.8	15
			3.7	2.76	4.8	5	5.0	—	5.0	6.00	13.5	15
		400-3-50	2.4	1.79	2.6	5	3.5	—	3.5	5.00	9.5	15
			2.9	2.16	3.4	5	3.5	—	3.5	5.00	10.5	15
			5.0	3.73	7.6	5	3.5	—	3.5	5.00	15.8	20
CAELHEAT003A00		575-3-60	1.0	0.75	1.4	5	5.0	—	5.0	5.00	8.0	15
			2.0	1.49	2.3	5	5.0	—	5.0	5.00	9.2	15
			3.0	2.24	3.8	5	5.0	—	5.0	5.00	11.0	15
CAELHEAT004A00		208-3-60	1.3†	0.97	7.6	10	7.5	—	7.5	20.8	35.6	40
			2.4†	1.79	11.0	10	7.5	—	7.5	20.8	39.8	40
			2.4	1.79	5.2	10	7.5	—	7.5	20.8	32.6	35
			2.9	2.16	7.5	10	7.5	—	7.5	20.8	35.4	40
			3.7	2.76	10.2	10	7.5	—	7.5	20.8	38.8	40
		240-3-60	1.3†	0.97	7.6	10	10.0	—	10.0	24.1	39.6	40
			2.4†	1.79	11.0	10	10.0	—	10.0	24.1	43.8	50
			2.4	1.79	5.2	10	10.0	—	10.0	24.1	36.6	40
			2.9	2.16	7.5	10	10.0	—	10.0	24.1	39.4	40
			3.7	2.76	10.2	10	10.0	—	10.0	24.1	42.8	50
		240-3-50	2.4	1.79	5.2	10	10.0	—	10.0	24.1	36.6	40
			2.9	2.16	7.5	10	10.0	—	10.0	24.1	39.4	40
			5.0	3.73	15.2	10	10.0	—	10.0	24.1	49.1	50
CAELHEAT005A00		480-3-60	2.4	1.79	2.6	10	10.0	—	10.0	12.0	18.3	20
			2.9	2.16	3.4	10	10.0	—	10.0	12.0	19.3	20
			3.7	2.76	4.8	10	10.0	—	10.0	12.0	21.0	25
		400-3-50	2.4	1.79	2.6	10	6.9	—	6.9	10.0	15.8	20
			2.9	2.16	3.4	10	6.9	—	6.9	10.0	16.8	20
			5.0	3.73	7.6	10	6.9	—	6.9	10.0	22.0	25
CAELHEAT006A00		575-3-60	1.0	0.75	1.4	10	10.0	—	10.0	10.0	14.3	15
			2.0	1.49	2.3	10	10.0	—	10.0	10.0	15.4	20
			3.0	2.24	3.8	10	10.0	—	10.0	10.0	17.3	20
CAELHEAT007A00		208-3-60	1.3†	0.97	7.6	15	11.3	—	11.3	31.3	48.6	50
			2.4†	1.79	11.0	15	11.3	—	11.3	31.3	52.9	60
			2.4	1.79	5.2	15	11.3	—	11.3	31.3	45.6	50
			2.9	2.16	7.5	15	11.3	—	11.3	31.3	48.5	50
			3.7	2.76	10.2	15	11.3	—	11.3	31.3	51.9	60
		240-3-60	1.3†	0.97	7.6	15	15.0	—	15.0	36.1	54.6	60
			2.4†	1.79	11.0	15	15.0	—	15.0	36.1	58.9	60
			2.4	1.79	5.2	15	15.0	—	15.0	36.1	51.6	60
			2.9	2.16	7.5	15	15.0	—	15.0	36.1	54.5	60
			3.7	2.76	10.2	15	15.0	—	15.0	36.1	57.9	60
		240-3-50	2.4	1.79	5.2	15	15.0	—	15.0	36.1	51.6	60
			2.9	2.16	7.5	15	15.0	—	15.0	36.1	54.5	60
			5.0	3.73	15.2	15	15.0	—	15.0	36.1	64.1	70
CAELHEAT008A00		480-3-60	2.4	1.79	2.6	15	15.0	—	15.0	18.0	25.8	30
			2.9	2.16	3.4	15	15.0	—	15.0	18.0	26.8	30
			3.7	2.76	4.8	15	15.0	—	15.0	18.0	28.6	30
		400-3-50	2.4	1.79	2.6	15	10.4	—	10.4	15.0	22.0	25
			2.9	2.16	3.4	15	10.4	—	10.4	15.0	23.0	25
			5.0	3.73	7.6	15	10.4	—	10.4	15.0	28.3	30
CAELHEAT009A00		575-3-60	1.0	0.75	1.4	15	15.0	—	15.0	15.1	20.6	25
			2.0	1.49	2.3	15	15.0	—	15.0	15.1	21.7	25
			3.0	2.24	3.8	15	15.0	—	15.0	15.1	23.6	25

See Legend and Notes on page 58.

Electrical data (cont)

ELECTRIC HEATER DATA (cont)

HEATER PART NO.	UNIT	V-PH-Hz	FAN MOTOR			ELECTRIC HEATER(S)					MCA*	MOCP*
						Nominal Capacity (kW)	Actual Capacity (kW)			FLA		
			Hp	kW	FLA		Stage 1	Stage 2	Total			
CAELHEAT010A00	40RM007-012 40RMQ008-012 40RMS008-012	208-3-60	1.3† 2.4† 2.4 2.9 3.7	0.97 1.79 1.79 2.16 2.76	7.6 11.0 5.2 7.5 10.2	25 25 25 25 25	11.3 11.3 11.3 11.3 11.3	7.5 7.5 7.5 7.5 7.5	18.8 18.8 18.8 18.8 18.8	52.1 52.1 52.1 52.1 52.1	74.7 78.9 71.7 74.5 77.9	80 80 80 80 80
		240-3-60	1.3† 2.4† 2.4 2.9 3.7	0.97 1.79 1.79 2.16 2.76	7.6 11.0 5.2 7.5 10.2	25 25 25 25 25	15.0 15.0 15.0 15.0 15.0	10.0 10.0 10.0 10.0 10.0	25.0 25.0 25.0 25.0 25.0	60.1 60.1 60.1 60.1 60.1	84.7 88.9 81.7 84.6 87.9	90 90 90 90 90
		240-3-50	2.4 2.9 5.0	1.79 2.16 3.73	5.2 7.5 15.2	25 25 25	15.0 15.0 15.0	10.0 10.0 10.0	25.0 25.0 25.0	60.1 60.1 60.1	81.7 84.6 94.2	90 90 100
CAELHEAT011A00		480-3-60	2.4 2.9 3.7	1.79 2.16 2.76	2.6 3.4 4.8	25 25 25	15.0 15.0 15.0	10.0 10.0 10.0	25.0 25.0 25.0	30.1 30.1 30.1	40.8 41.8 43.6	50 50 50
		400-3-50	2.4 2.9 5.0	1.79 2.16 3.73	2.6 3.4 7.6	25 25 25	10.4 10.4 10.4	6.9 6.9 6.9	17.4 17.4 17.4	25.1 25.1 25.1	34.6 35.6 40.8	25 40 50
CAELHEAT012A00		575-3-60	1.0 2.0 3.0	0.75 1.49 2.24	1.4 2.3 3.8	25 25 25	15.0 15.0 15.0	10.0 10.0 10.0	25.0 25.0 25.0	25.1 25.1 25.1	33.1 34.3 36.1	35 35 40
CAELHEAT013A00	40RM008,012 40RMQ008,012 40RMS008-012	208-3-60	2.4† 2.4 2.9 3.7	1.79 1.79 2.16 2.76	11.0 5.2 7.5 10.2	35 35 35 35	15.0 15.0 15.0 15.0	11.3 11.3 11.3 11.3	26.3 26.3 26.3 26.3	73.0 73.0 73.0 73.0	105.0 97.7 100.6 104.0	110 100 110 110
		240-3-60	2.4† 2.4 2.9 3.7	1.79 1.79 2.16 2.76	11.0 5.2 7.5 10.2	35 35 35 35	20.0 20.0 20.0 20.0	15.0 15.0 15.0 15.0	35.0 35.0 35.0 35.0	84.2 84.2 84.2 84.2	119.0 111.7 114.6 118.0	125 125 125 125
		240-3-50	2.4 2.9 5.0	1.79 2.16 3.73	5.2 7.5 15.2	35 35 35	20.0 20.0 20.0	15.0 15.0 15.0	35.0 35.0 35.0	84.2 84.2 84.2	111.7 114.6 124.2	125 125 125
CAELHEAT014A00		480-3-60	2.4 2.9 3.7	1.79 2.16 2.76	2.6 3.4 4.8	35 35 35	20.0 20.0 20.0	15.0 15.0 15.0	35.0 35.0 35.0	42.1 42.1 42.1	55.9 56.9 58.6	60 60 60
		400-3-50	2.4 2.9 5.0	1.79 2.16 3.73	2.6 3.4 7.6	35 35 35	13.9 13.9 13.9	10.4 10.4 10.4	24.3 24.3 24.3	35.1 35.1 35.1	47.1 48.1 53.4	50 50 60
CAELHEAT015A00		575-3-60	2.0 3.0	1.49 2.24	2.3 3.8	35 35	20.0 20.0	15.0 15.0	35.0 35.0	35.1 35.1	46.8 48.7	50 50

LEGEND

FLA — Full Load Amps
Hp — Horsepower
MCA — Minimum Circuit Amps
MOCP— Maximum Overcurrent Protection (Amps)

*Values shown are for single-point connection of electric heat accessory and air handler.
†Single-phase motors. All other motors are 3-phase.

NOTES:
1. Electrical resistance heaters are rated at 240 v, 480 v, or 575 v. To determine heater capacity (kW) at unit nameplate multiply the 240-v, 480-v, or 575-v capacity (kW) by the factor shown in the table below for the unit voltage.

HEATER RATING VOLTAGE	ACTUAL HEATER VOLTAGE										
	200	208	230	240	400	440	460	480	550	575	600
240	0.694	0.751	0.918	1	—	—	—	—	—	—	—
480	—	—	—	—	0.694	0.84	0.918	1	—	—	—
575	—	—	—	—	—	—	—	—	0.915	1	1.089

2. The following equation converts kW of heat energy to Btuh: kW x 3,412 = Btuh.
3. Heater contactor coils are 24 v and require 8 va holding current.
4. Electric heaters are tested and ETL approved at maximum total external static pressure of 1.9 in. wg.
5. MCA and MOCP values apply to both standard and alternate factory-supplied motors.
6. Approximate shipping weight for CAELHEAT001A00-015A00 is 55 lbs each.

ELECTRIC HEATER DATA (cont)

HEATER PART NO.	UNIT	V-PH-Hz	FAN MOTOR			ELECTRIC HEATER(S)					MCA*	MOCP*
						Nominal Capacity (kW)	Actual Capacity (kW)			FLA		
			Hp	kW	FLA		Stage 1	Stage 2	Total			
CAELHEAT016A00	40RM014-024 40RMQ016,024 40RMS014-024	208-3-60	2.9	2.16	7.5	10	7.5	—	7.5	20.8	35.4	40
			3.7	2.76	10.2	10	7.5	—	7.5	20.8	38.8	40
			5.0	3.73	14.6	10	7.5	—	7.5	20.8	41.3	50
			7.5	5.59	21.5	10	7.5	—	7.5	20.8	52.9	60
		240-3-60	2.9	2.16	7.5	10	10.0	—	10.0	24.1	39.4	40
			3.7	2.76	10.2	10	10.0	—	10.0	24.1	42.8	50
			5.0	3.73	12.8	10	10.0	—	10.0	24.1	46.1	50
			7.5	5.59	19.4	10	10.0	—	10.0	24.1	54.4	60
		240-3-50	2.9	2.16	7.5	10	10.0	—	10.0	24.1	39.4	40
			5.0	3.73	13.2	10	10.0	—	10.0	24.1	46.6	50
			7.5	5.59	19.8	10	10.0	—	10.0	24.1	54.8	60
CAELHEAT017A00		480-3-60	2.9	2.16	3.4	10	10.0	—	10.0	12.0	19.3	20
			3.7	2.76	4.8	10	10.0	—	10.0	12.0	21.0	25
			5.0	3.73	6.4	10	10.0	—	10.0	12.0	23.0	25
			7.5	5.59	9.7	10	10.0	—	10.0	12.0	27.2	30
		400-3-50	2.9	2.16	3.4	10	6.9	—	6.9	10.0	16.8	20
			5.0	3.73	7.6	10	6.9	—	6.9	10.0	22.0	25
			7.5	5.59	11.4	10	6.9	—	6.9	10.0	26.8	35
CAELHEAT018A00		575-3-60	3.0	2.24	3.8	10	10.0	—	10.0	10.0	17.3	20
			5.0	3.73	5.1	10	10.0	—	10.0	10.0	19.6	20
			7.5	5.59	7.8	10	10.0	—	10.0	10.0	22.1	25
CAELHEAT019A00		208-3-60	2.9	2.16	7.5	20	14.9	—	14.9	41.5	51.2	70
			3.7	2.76	10.2	20	14.9	—	14.9	41.5	64.6	70
			5.0	3.73	14.6	20	14.9	—	14.9	41.5	70.1	80
			7.5	5.59	21.5	20	14.9	—	14.9	41.5	78.7	80
		240-3-60	2.9	2.16	7.5	20	19.9	—	19.9	47.9	69.2	70
			3.7	2.76	10.2	20	19.9	—	19.9	47.9	72.6	80
			5.0	3.73	12.8	20	19.9	—	19.9	47.9	75.8	80
			7.5	5.59	19.4	20	19.9	—	19.9	47.9	84.1	80
		240-3-50	2.9	2.16	7.5	20	19.9	—	19.9	47.9	69.2	70
			5.0	3.73	13.2	20	19.9	—	19.9	47.9	76.3	80
			7.5	5.59	19.8	20	19.9	—	19.9	47.9	84.6	90
CAELHEAT020A00		480-3-60	2.9	2.16	3.4	20	20.0	—	20.0	24.1	34.3	35
			3.7	2.76	4.8	20	20.0	—	20.0	24.1	36.1	40
			5.0	3.73	6.4	20	20.0	—	20.0	24.1	39.1	40
			7.5	5.59	9.7	20	20.0	—	20.0	24.1	43.2	50
		400-3-50	2.9	2.16	3.4	20	13.9	—	13.9	20.0	29.3	30
			5.0	3.73	7.6	20	13.9	—	13.9	20.0	45.1	50
			7.5	5.59	11.4	20	13.9	—	13.9	20.0	49.2	50
CAELHEAT021A00		575-3-60	3.0	2.24	3.8	20	20.0	—	20.0	20.1	29.9	30
			5.0	3.73	5.1	20	20.0	—	20.0	20.1	31.5	35
			7.5	5.59	7.8	20	20.0	—	20.0	20.1	34.9	35
CAELHEAT022A00		208-3-60	2.9	2.16	7.5	30	15.0	7.5	22.5	62.5	87.5	90
			3.7	2.76	10.2	30	15.0	7.5	22.5	62.5	90.9	100
			5.0	3.73	14.6	30	15.0	7.5	22.5	62.5	96.4	100
			7.5	5.59	21.5	30	15.0	7.5	22.5	62.5	105.0	110
		240-3-60	2.9	2.16	7.5	30	20.0	10.0	30.0	72.2	99.6	100
			3.7	2.76	10.2	30	20.0	10.0	30.0	72.2	103.0	110
			5.0	3.73	12.8	30	20.0	10.0	30.0	72.2	106.2	110
			7.5	5.59	19.4	30	20.0	10.0	30.0	72.2	114.5	125
		240-3-50	2.9	2.16	7.5	30	20.0	10.0	30.0	72.2	99.6	100
			5.0	3.73	13.2	30	20.0	10.0	30.0	72.2	106.7	110
			7.5	5.59	19.8	30	20.0	10.0	30.0	72.2	115.0	125
CAELHEAT023A00		480-3-60	2.9	2.16	3.4	30	20.0	10.0	30.0	36.1	49.4	50
			3.7	2.76	4.8	30	20.0	10.0	30.0	36.1	51.1	60
			5.0	3.73	6.4	30	20.0	10.0	30.0	36.1	53.1	60
			7.5	5.59	9.7	30	20.0	10.0	30.0	36.1	57.2	60
		400-3-50	2.9	2.16	3.4	30	13.9	6.9	20.8	30.1	41.8	50
			5.0	3.73	7.6	30	13.9	6.9	20.8	30.1	47.1	50
			7.5	5.59	11.4	30	13.9	6.9	20.8	30.1	51.8	60
CAELHEAT024A00		575-3-60	3.0	2.24	3.8	30	20.0	10.0	30.0	30.1	42.4	50
			5.0	3.73	5.1	30	20.0	10.0	30.0	30.1	44.0	50
			7.5	5.59	7.8	30	20.0	10.0	30.0	30.1	47.4	50

See Legend and Notes on page 60.

Electrical data (cont)

ELECTRIC HEATER DATA (cont)

HEATER PART NO.	UNIT	V-PH-Hz	FAN MOTOR			ELECTRIC HEATER(S)					MCA*	MOCP*
						Nominal Capacity (kW)	Actual Capacity (kW)			FLA		
			Hp	kW	FLA		Stage 1	Stage 2	Total			
CAELHEAT025A00	40RM016,024 40RMQ016,024 40RMS016,024	208-3-60	3.7	2.76	10.2	50	22.6	15.0	37.6	104.3	143.1	150
			5.0	3.73	14.6	50	22.6	15.0	37.6	104.3	148.6	150
			7.5	5.59	21.5	50	22.6	15.0	37.6	104.3	157.2	175
		240-3-60	3.7	2.76	10.2	50	30.0	20.0	50.0	120.3	163.1	175
			5.0	3.73	12.8	50	30.0	20.0	50.0	120.3	166.4	175
			7.5	5.59	19.4	50	30.0	20.0	50.0	120.3	174.6	200
		240-3-50	2.9	2.16	7.5	50	30.0	20.0	50.0	120.3	159.7	175
			5.0	3.73	13.2	50	30.0	20.0	50.0	120.3	166.9	175
			7.5	5.59	19.8	50	30.0	20.0	50.0	120.3	175.1	200
CAELHEAT026A00		480-3-60	3.7	2.76	4.8	50	30.0	20.0	50.0	60.1	81.2	90
			5.0	3.73	6.4	50	30.0	20.0	50.0	60.1	83.2	90
			7.5	5.59	9.7	50	30.0	20.0	50.0	60.1	87.3	90
		400-3-50	2.9	2.16	3.4	50	20.8	13.9	34.7	50.1	66.9	70
			5.0	3.73	7.6	50	20.8	13.9	34.7	50.1	72.1	80
			7.5	5.59	11.4	50	20.8	13.9	34.7	50.1	76.9	80
CAELHEAT027A00		575-3-60	3.0	2.24	3.8	50	30.0	20.0	50.0	50.2	67.5	70
			5.0	3.73	5.1	50	30.0	20.0	50.0	50.2	69.1	70
			7.5	5.59	7.8	50	30.0	20.0	50.0	50.2	72.5	80
CAELHEAT028A00	40RM028,034 40RMQ028 40RMS028,034	208-3-60	7.5	5.59	19.8	20	14.9	—	14.9	41.5	78.7	80
			10.0	7.46	28.2	20	14.9	—	14.9	41.5	87.1	100
		240-3-60	7.5	5.59	19.4	20	19.9	—	19.9	47.9	81.4	90
			10.0	7.46	26.8	20	19.9	—	19.9	47.9	93.3	110
		240-3-50	7.5	5.59	19.8	20	19.9	—	19.9	47.9	84.6	90
			10.0	7.46	28.0	20	19.9	—	19.9	47.9	94.8	110
CAELHEAT029A00		480-3-60	7.5	5.59	9.7	20	20.0	—	20.0	24.1	42.2	50
			10.0	7.46	13.4	20	20.0	—	20.0	24.1	46.8	50
		400-3-50	7.5	5.59	11.4	20	13.9	—	13.9	20.0	39.3	40
			10.0	7.46	16.1	20	13.9	—	13.9	20.0	45.2	50
CAELHEAT030A00		575-3-60	7.5	5.59	7.8	20	20.0	—	20.0	20.1	34.9	35
			10.0	7.46	10.3	20	20.0	—	20.0	20.1	38.0	40
CAELHEAT031A00		208-3-60	7.5	5.59	19.8	40	15.0	15.0	30.0	83.4	131.1	150
			10.0	7.46	28.0	40	15.0	15.0	30.0	83.4	139.5	150
		240-3-60	7.5	5.59	19.4	40	20.0	20.0	40.0	96.2	144.5	150
			10.0	7.46	26.8	40	20.0	20.0	40.0	96.2	153.8	175
		240-3-50	7.5	5.59	19.8	40	20.0	20.0	40.0	96.2	145.0	150
			10.0	7.46	28.0	40	20.0	20.0	40.0	96.2	155.3	175
CAELHEAT032A00		480-3-60	7.5	5.59	9.7	40	20.0	20.0	40.0	47.9	71.9	80
			10.0	7.46	13.4	40	20.0	20.0	40.0	47.9	76.6	80
		400-3-50	7.5	5.59	11.4	40	13.9	13.9	27.8	39.9	64.1	70
			10.0	7.46	16.1	40	13.9	13.9	27.8	39.9	70.0	80
CAELHEAT033A00		575-3-60	7.5	5.59	7.8	40	20.0	20.0	40.0	40.2	60.0	60
			10.0	7.46	10.3	40	20.0	20.0	40.0	40.2	63.1	70

LEGEND

FLA — Full Load Amps
Hp — Horsepower
MCA — Minimum Circuit Amps
MOCP— Maximum Overcurrent Protection (Amps)

*Values shown are for single-point connection of electric heat accessory and air handler.

NOTES:
1. Electrical resistance heaters are rated at 240 v, 480 v, or 575 v. To determine heater capacity (kW) at unit nameplate multiply the 240-v, 480-v, or 575-v capacity (kW) by the factor shown in the table below for the unit voltage.

HEATER RATING VOLTAGE	ACTUAL HEATER VOLTAGE										
	200	208	230	240	400	440	460	480	550	575	600
240	0.694	0.751	0.918	1	—	—	—	—	—	—	—
480	—	—	—	—	0.694	0.84	0.918	1	—	—	—
575	—	—	—	—	—	—	—	—	0.915	1	1.089

2. The following equation converts kW of heat energy to Btuh: kW x 3,412 = Btuh.
3. Heater contactor coils are 24 v and require 8 va holding current.
4. Electric heaters are tested and ETL approved at maximum total external static pressure of 1.9 in. wg.
5. MCA and MOCP values apply to both standard and alternate factory-supplied motors.
6. Approximate shipping weight for CAELHEAT016A00-027A00 is 60 lbs each, CAELHEAT028A00-033A00 is 75 lbs each.

ELECTRIC HEATER DATA (cont)

HEATER PART NO.	UNIT	V-PH-Hz	FAN MOTOR			ELECTRIC HEATER(S)					MCA*	MOCP*
						Nominal Capacity (kW)	Actual Capacity (kW)			FLA		
			Hp	kW	FLA		Stage 1	Stage 2	Total			
CAELHEAT034A00	40RM028,034 40RMQ028 40RMS028,034	208-3-60	7.5 10.0	5.59 7.46	19.8 28.0	50 50	22.6 22.6	15.0 15.0	37.6 37.6	104.3 104.3	157.2 165.6	175 175
		240-3-60	7.5 10.0	5.59 7.46	19.4 26.8	50 50	30.0 30.0	20.0 20.0	50.0 50.0	120.3 120.3	174.6 183.9	200 200
		240-3-50	7.5 10.0	5.59 7.46	19.8 28.0	50 50	30.0 30.0	20.0 20.0	50.0 50.0	120.3 120.3	175.1 185.4	200 200
CAELHEAT035A00		480-3-60	7.5 10.0	5.59 7.46	9.7 13.4	50 50	30.0 30.0	20.0 20.0	50.0 50.0	60.1 60.1	87.3 91.9	90 100
		400-3-50	7.5 10.0	5.59 7.46	11.4 16.1	50 50	20.8 20.8	13.9 13.9	34.7 34.7	50.1 50.1	76.9 82.8	80 90
CAELHEAT036A00		575-3-60	7.5 10.0	5.59 7.46	7.8 10.3	50 50	30.0 30.0	20.0 20.0	50.0 50.0	50.2 50.2	72.5 75.6	80 80
CAELHEAT037A00		208-3-60	7.5 10.0	5.59 7.46	19.8 28.0	70 70	30.0 30.0	22.6 22.6	52.6 52.6	145.9 145.9	172.8 181.2	175 200
		240-3-60	7.5 10.0	5.59 7.46	19.4 26.8	70 70	40.0 40.0	30.0 30.0	70.0 70.0	168.4 168.4	192.6 201.9	200 225
		240-3-50	7.5 10.0	5.59 7.46	19.8 28.0	70 70	40.0 40.0	30.0 30.0	70.0 70.0	168.4 168.4	193.1 203.4	200 225
CAELHEAT038A00		480-3-60	7.5 10.0	5.59 7.46	9.7 13.4	70 70	40.0 40.0	30.0 30.0	70.0 70.0	84.2 84.2	96.3 100.9	100 110
		400-3-50	7.5 10.0	5.59 7.46	11.4 16.1	70 70	27.8 27.8	20.8 20.8	48.6 48.6	70.2 70.2	84.4 90.3	90 100
CAELHEAT039A00		575-3-60	7.5 10.0	5.59 7.46	7.8 10.3	70 70	40.0 40.0	30.0 30.0	70.0 70.0	70.3 70.3	80.0 83.2	90 90

LEGEND

FLA — Full Load Amps
Hp — Horsepower
MCA — Minimum Circuit Amps
MOCP— Maximum Overcurrent Protection (Amps)

*Values shown are for single-point connection of electric heat accessory and air handler.

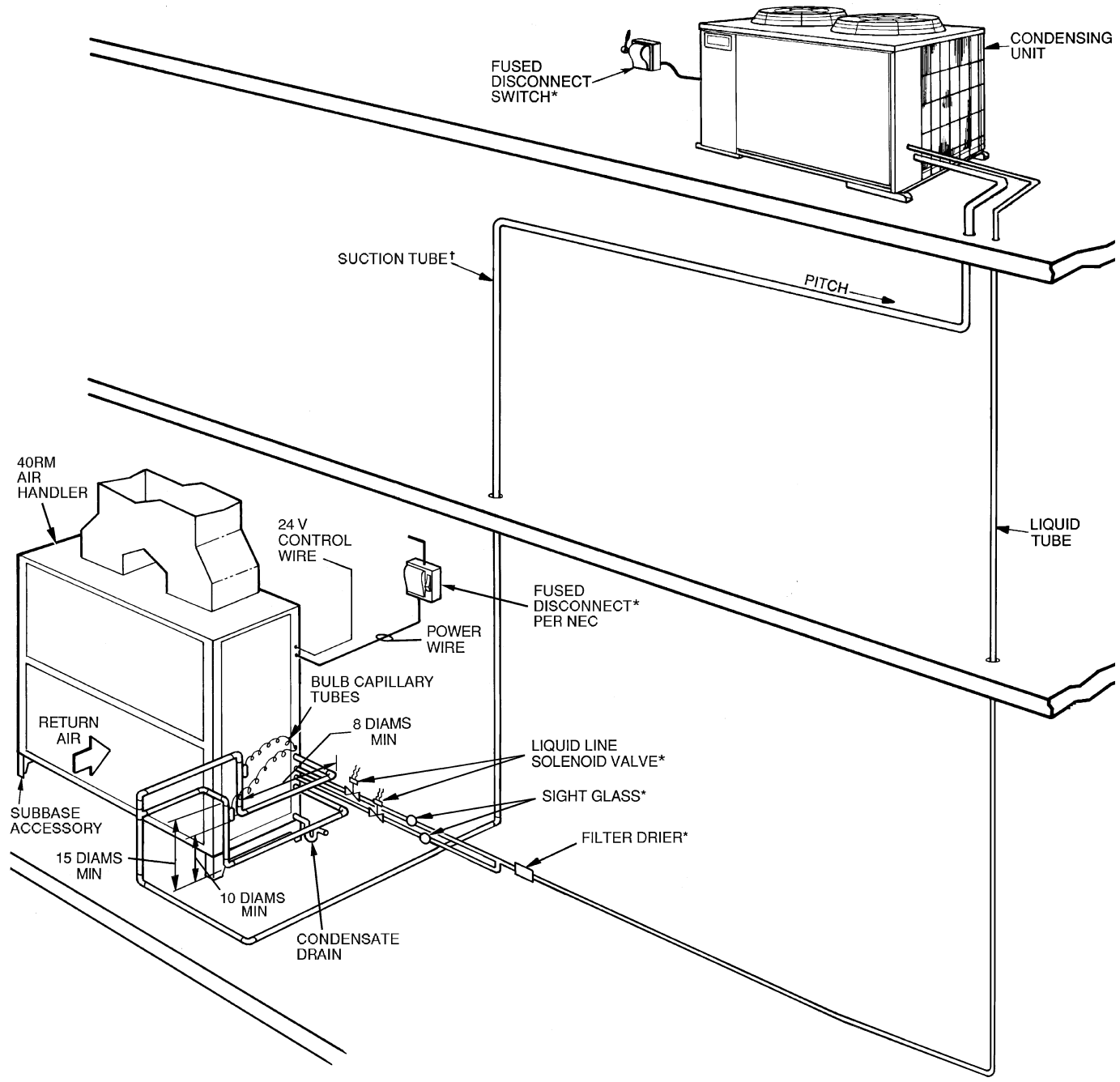
NOTES:
1. Electrical resistance heaters are rated at 240 v, 480 v, or 575 v. To determine heater capacity (kW) at unit nameplate multiply the 240-v, 480-v, or 575-v capacity (kW) by the factor shown in the table below for the unit voltage.

HEATER RATING VOLTAGE	ACTUAL HEATER VOLTAGE										
	200	208	230	240	400	440	460	480	550	575	600
240	0.694	0.751	0.918	1	—	—	—	—	—	—	—
480	—	—	—	—	0.694	0.84	0.918	1	—	—	—
575	—	—	—	—	—	—	—	—	0.915	1	1.089

2. The following equation converts kW of heat energy to Btuh: kW x 3,412 = Btuh.
3. Heater contactor coils are 24 v and require 8 va holding current.
4. Electric heaters are tested and ETL approved at maximum total external static pressure of 1.9 in. wg.
5. MCA and MOCP values apply to both standard and alternate factory-supplied motors.
6. Approximate shipping weight for CAELHEAT034A00-039A00 is 75 lbs each.

Typical piping and wiring

VERTICAL INSTALLATION — 40RM (TYPICAL)



LEGEND

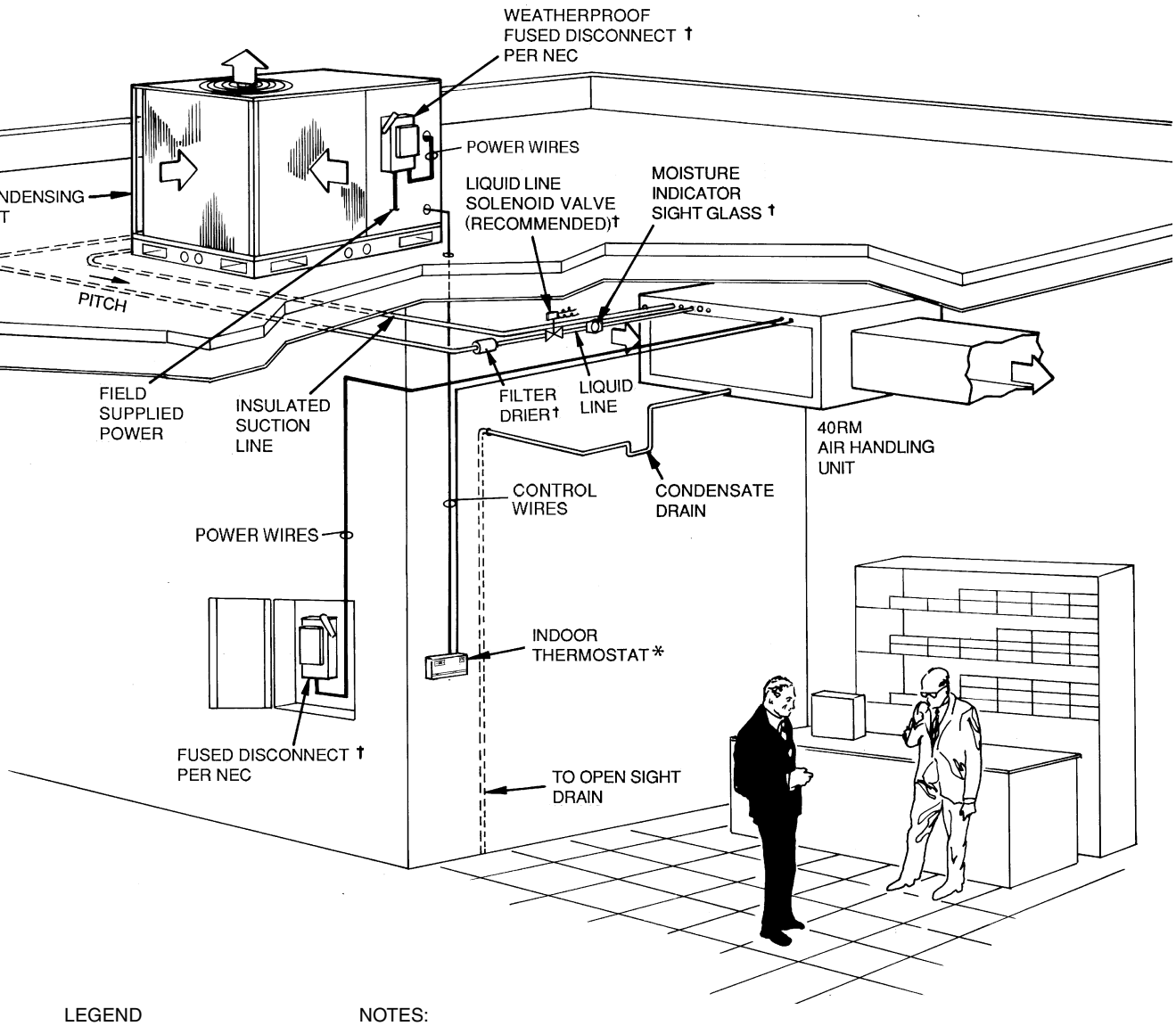
NEC — National Electrical Code
TXV — Thermostatic Expansion Valve
Piping

*Field supplied.
†Double riser may be required. Consult condensing unit product data catalog for details.

NOTES:

1. All piping must follow standard refrigerant piping techniques. Refer to Carrier System Design Manual for details.
2. All wiring must comply with the applicable local and national codes.
3. Wiring and piping shown are general points-of-connection guides only and are not intended for, or to include all details for, a specific installation.
4. Liquid line solenoid valve (solenoid drop control) is recommended to prevent refrigerant migration to the compressor.
5. Internal factory-supplied TXVs not shown.

HORIZONTAL INSTALLATION — 40RM (TYPICAL)



LEGEND

NEC — National Electrical Code
TXV — Thermostatic Expansion Valve
Piping

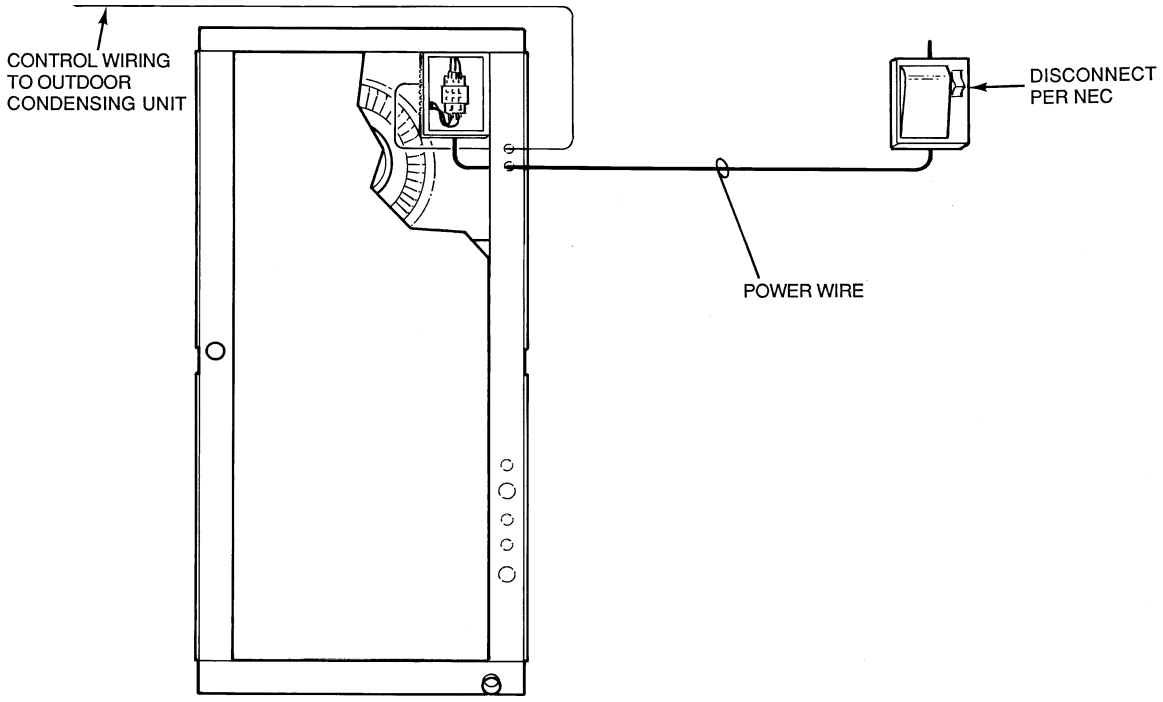
*Accessory item
†Field supplied.

NOTES:

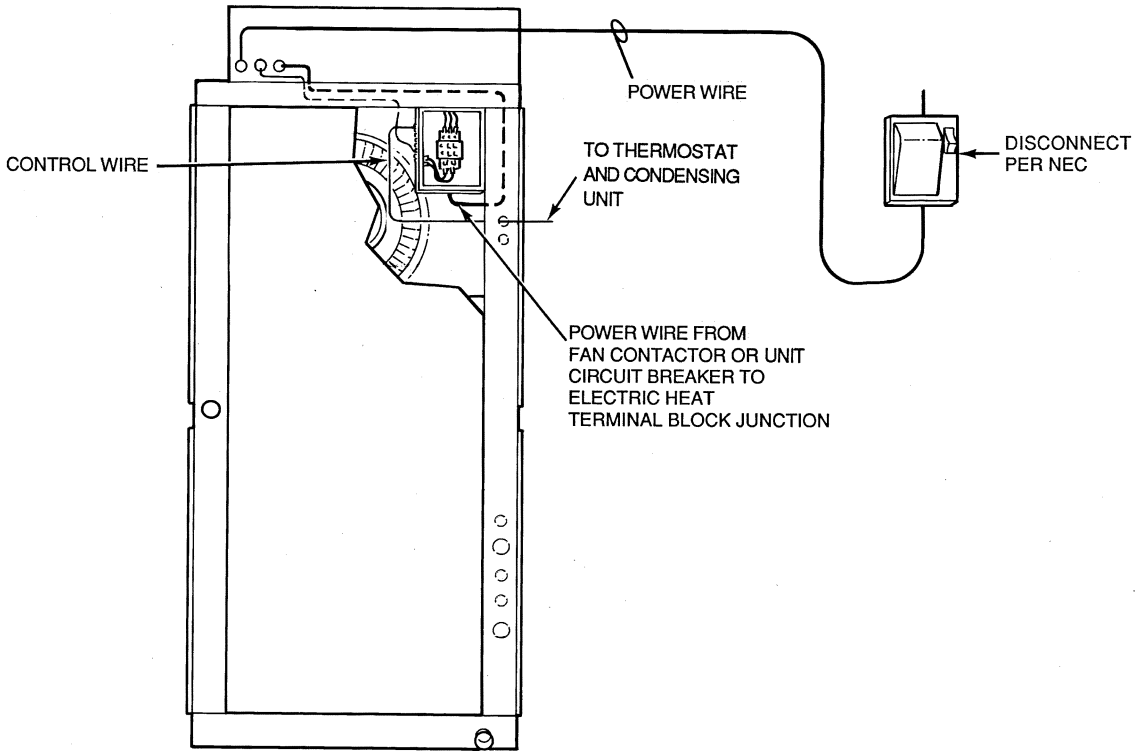
1. All piping must follow standard refrigerant piping techniques. Refer to Carrier System Design Manual for details.
2. All wiring must comply with the applicable local and national codes.
3. Wiring and piping shown are general points-of-connection guides only and are not intended for, or to include all details for, a specific installation.
4. Liquid line solenoid valve (solenoid drop control) is recommended to prevent refrigerant migration to the compressor.
5. Internal factory-supplied TXVs not shown.

Typical piping and wiring (cont)

WIRE ROUTING, BASE UNIT — 40RM, 40RMS

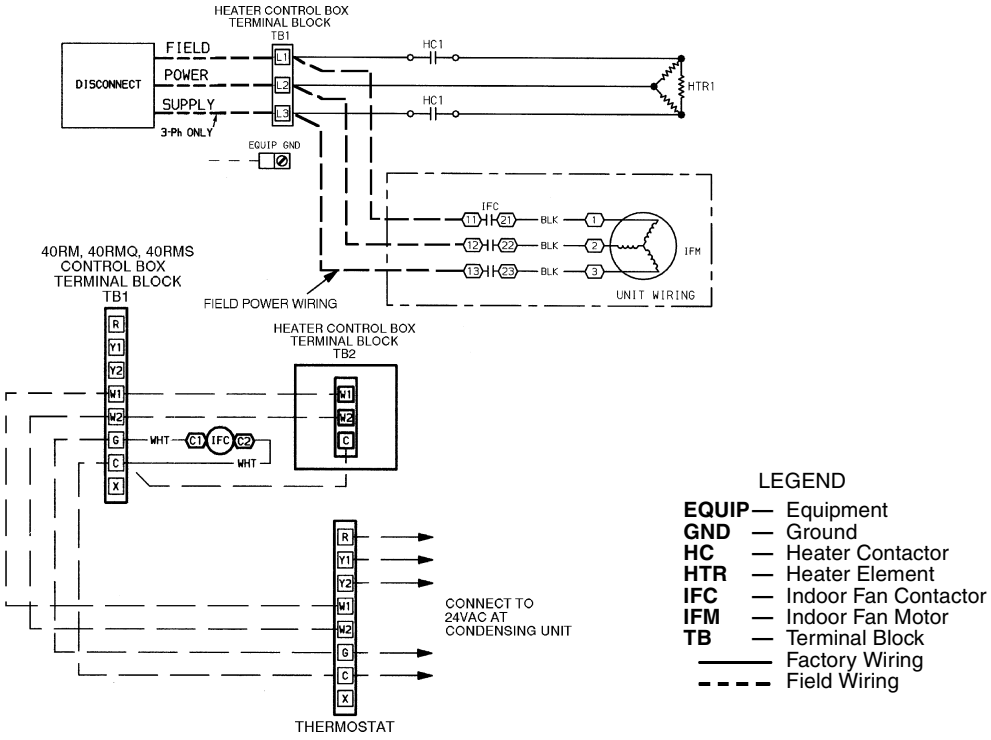


WIRE ROUTING, UNIT WITH ELECTRIC HEAT — 40RM, 40RMS



NEC — National Electrical

CONTROL WIRING SCHEMATIC — TYPICAL



Application data

Operating limits

Maximum fan speed — 40RM007-024, 40RMQ008-024, or 40RMS008-024. . . . . .1200 rpm (20 r/s)

Maximum fan speed — 40RM028,034, 40RMQ028 and 40RMS028,034. . . . . 1100 rpm (18.3 r/s)

General

Select equipment to match or to be slightly less than peak load. This provides better humidity control, less unit cycling, and less part-load operation. Equipment should be selected to perform at no less than 300 cfm/ton (40 L/s per kW).

The air handler fan must always be operating when the condensing unit is operating.

Ductwork should be sized according to unit size, not building load. For larger units with two fans, a split duct transition is recommended at the fan outlets, but a plenum can be used with slight reduction in external static pressure capability.

For variable air volume (VAV) systems with supply-to-return air recycling, use the equipment room as a return air plenum.

FACTORY-INSTALLED NOZZLE AND DISTRIBUTOR DATA

UNIT	COIL TYPE	TXV Qty...Part No.*	DISTRIBUTOR Qty...Part No.†	FEEDER TUBES PER DISTRIBUTOR Qty...Size (in.)	NOZZLE Qty...Part No.
40RM007	3, 4 Row	1...TDEBX8	1...1116	12...1/4	1...E5
40RM008	3, 4 Row	1...TDEBX8	1...1126	15...1/4	1...C6
40RMQ008	—	1...TDEBX8	1...1657	15...1/4	1...C6
40RM012	3, 4 Row	2...TDEX6	2...1115	9...1/4	2...E4
40RMQ012	—	2...TDEX4	2...1655	9...1/4	2...E4
40RM014	3 Row 4 Row	2...TDEBX8 2...TDEBX8	2...1115 2...1115	9...1/4 12...3/16	2...E5 2...E5
40RM016	3 Row 4 Row	2...TDEBX8 2...TDEBX8	2...1116 2...1126	12...1/4 16...1/4	2...E6 2...C6
40RMQ016	—	2...TDEBX8	2...1657	16...1/4	2...C6
40RM024	3 Row 4 Row	2...TDEBX11 2...TDEBX11	2...1116 2...1126	13...1/4 18...3/16	2...E8 2...C8
40RMQ024	—	2...TDEBX11	2...1655	18...3/16	2...E8
40RM028	3 Row 4 Row	2...TDEBX11 2...TDEBX11	2...1126 2...1126	15...1/4 20...3/16	2...C10 2...C15
40RMQ028	—	1...TDEBX16 1...TDEBX11	1...1657 1...1657	24...3/16 16...3/16	1...C15 1...C12
40RM034	3 Row 4 Row	2...TDEBX16 2...TDEBX16	2...1126 2...1126	18...1/4 24...3/16	2...C12 2...C17

*Danfoss part numbers shown.
†Sporlan Valve Co. part numbers shown.

NOTE: Hot gas bypass applications require field-supplied auxiliary side connector.

Application data (cont)

FAN MOTOR DATA

STANDARD MOTOR — ENGLISH

UNIT	40RM 007	40RM 40RMQ 40RMS 008	40RMS 010	40RM 40RMQ 40RMS 012	40RM 40RMS 014	40RM 40RMQ 40RMS 016	40RM 40RMQ 40RMS 024	40RM 40RMQ 40RMS 028	40RM 40RMS 034
208/230-1-60									
Speed (rpm)	1725	1725	1725	—	—	—	—	—	—
Hp	1.3	2.4	2.4	—	—	—	—	—	—
Frame (NEMA)	56Y	56Y	56Y	—	—	—	—	—	—
Shaft Dia (in.)	5/8	5/8	5/8	—	—	—	—	—	—
208/230-3-60 and 460-3-60									
Speed (rpm)	1725	1725	1725	1725	1725	1725	1745	1745	1745
Hp	2.4	2.4	2.4	2.4	2.9	3.7	5.0	7.5	10.0
Frame (NEMA)	56Y	56Y	56Y	56Y	56Y	56Y	S184T	S213T	S215T
Shaft Dia (in.)	5/8	5/8	5/8	5/8	7/8	7/8	1 1/8	1 3/8	1 3/8
575-3-60									
Speed (rpm)	1725	1725	1725	1725	1725	1725	1745	1755	1755
Hp	1.0	2.0	2.0	2.0	3.0	3.0	5.0	7.5	10.0
Frame (NEMA)	56	56HZ	56HZ	56HZ	56HZ	56HZ	184T	S213T	D215T
Shaft Dia (in.)	5/8	7/8	7/8	7/8	7/8	7/8	1 1/8	1 3/8	1 3/8
230-3-50 and 400-3-50									
Speed (rpm)	1425	1425	1425	1425	1425	1425	1425	1425	1425
Hp	2.4	2.4	2.4	2.9	2.9	2.9	5.0	7.5	10.0
Frame (NEMA)	56Y	56Y	56Y	56Y	56Y	56Y	184T	S213T	S215T
Shaft Dia (in.)	5/8	5/8	5/8	7/8	7/8	7/8	1 1/8	1 3/8	1 3/8

LEGEND

NEMA — National Electrical Manufacturers Association (U.S.A.)

ALTERNATE MOTOR — ENGLISH

UNIT	40RM 007	40RM 40RMQ 40RMS 008	40RMS 010	40RM 40RMQ 40RMS 012	40RM 40RMS 014	40RM 40RMQ 40RMS 016	40RM 40RMQ 40RMS 024	40RM 40RMQ 40RMS 028
208/230-1-60								
Speed (rpm)	1725	1725	1725	—	—	—	—	—
Hp	2.4	2.4	2.4	—	—	—	—	—
Frame (NEMA)	56Y	56Y	56Y	—	—	—	—	—
Shaft Dia (in.)	5/8	7/8	7/8	—	—	—	—	—
230-3-60 and 460-3-60								
Speed (rpm)	1725	1725	1725	1725	1725	1725	1745	1745
Hp	2.9	2.9	2.9	3.7	3.7	5.0	7.5	10.0
Frame (NEMA)	56Y	56Y	56Y	Y56Y	Y56Y	S184T	S213T	S215T
Shaft Dia (in.)	7/8	7/8	7/8	7/8	7/8	1 1/8	1 3/8	1 3/8
575-3-60								
Speed (rpm)	1725	1725	1725	1725	1745	1745	1755	1750
Hp	2.0	3.0	3.0	3.0	5.0	5.0	7.5	10.0
Frame (NEMA)	56HZ	56HZ	56HZ	56HZ	184T	184T	S213T	D215T
Shaft Dia (in.)	7/8	7/8	7/8	7/8	1 1/8	1 1/8	1 3/8	1 3/8
230-3-50 and 400-3-50								
Speed (rpm)	1425	1425	1425	1425	1425	1425	1425	1425
Hp	2.4	2.9	2.9	5.0	5.0	5.0	7.5	10.0
Frame (NEMA)	56Y	56Y	56Y	S184T	S184T	S184T	S213T	S215T
Shaft Dia (in.)	7/8	7/8	7/8	7/8	1 1/8	1 1/8	1 3/8	1 3/8

LEGEND

NEMA — National Electrical Manufacturers Association (U.S.A.)

FAN MOTOR DATA (cont)

STANDARD MOTOR — SI

UNIT	40RM 007	40RM 40RMQ 40RMS 008	40RMS 010	40RM 40RMQ 40RMS 012	40RM 40RMS 014	40RM 40RMQ 40RMS 016	40RM 40RMQ 40RMS 024	40RM 40RMQ 40RMS 028	40RM 40RMS 034
208/230-1-60									
Speed (r/s)	28.75	28.75	28.75	—	—	—	—	—	—
Shaft kW	0.97	1.79	1.79	—	—	—	—	—	—
Frame (NEMA)	56Y	56Y	56Y	—	—	—	—	—	—
Shaft Dia (mm)	15.9	15.9	15.9	—	—	—	—	—	—
208/230-3-60 and 460-3-60									
Speed (r/s)	28.75	28.75	28.75	28.75	28.75	28.75	29.08	29.08	29.08
Shaft kW	1.79	1.79	1.79	1.79	2.16	2.76	3.73	5.60	7.46
Frame (NEMA)	56Y	56Y	56Y	56Y	56Y	56Y	S184T	S213T	S215T
Shaft Dia (mm)	15.9	15.9	15.9	15.9	22.2	22.2	28.6	34.9	34.9
575-3-60									
Speed(r/s)	28.75	28.75	28.75	28.75	28.75	28.75	29.08	29.25	29.25
Shaft kW	0.75	1.49	1.49	1.49	2.24	2.24	3.73	5.60	7.46
Frame (NEMA)	56	56HZ	56HZ	56HZ	56HZ	56HZ	184T	S213T	S215T
Shaft Dia (mm)	15.9	22.2	22.2	22.2	22.2	22.2	28.6	34.9	34.9
230-3-50 and 400-3-50									
Speed (r/s)	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75
Shaft kW	1.79	1.79	1.79	2.16	2.16	2.16	3.73	5.60	7.46
Frame (NEMA)	56Y	56Y	56Y	56Y	56Y	56Y	184T	S213T	S215T
Shaft Dia (mm)	15.9	15.9	15.9	22.2	22.2	22.2	28.6	34.9	34.9

LEGEND

NEMA — National Electrical Manufacturers Association (U.S.A.)

ALTERNATE MOTOR — SI

UNIT	40RM 007	40RM 40RMQ 40RMS 008	40RMS 010	40RM 40RMQ 40RMS 012	40RM 40RMS 014	40RM 40RMQ 40RMS 016	40RM 40RMQ 40RMS 024	40RM 40RMQ 40RMS 028
208/230-1-60								
Speed (r/s)	28.75	28.75	28.75	—	—	—	—	—
Shaft kW	1.79	1.79	1.79	—	—	—	—	—
Frame (NEMA)	56Y	56Y	56Y	—	—	—	—	—
Shaft Dia (mm)	15.9	22.2	22.2	—	—	—	—	—
208/230-3-60 and 460-3-60								
Speed(r/s)	28.75	28.75	28.75	28.75	28.75	29.08	29.08	29.17
Shaft kW	2.16	2.16	2.16	2.76	2.76	3.73	5.60	7.46
Frame (NEMA)	56Y	56Y	56Y	Y56Y	Y56Y	S184T	S213T	S215T
Shaft Dia (mm)	22.2	22.2	22.2	22.2	22.2	28.6	34.9	34.9
575-3-60								
Speed (r/s)	28.75	28.75	28.75	28.75	29.08	29.08	29.25	29.17
Shaft kW	1.50	2.24	2.24	2.24	3.73	3.73	5.60	7.46
Frame (NEMA)	56HZ	56HZ	56HZ	56HZ	184T	184T	S213T	D215T
Shaft Dia (mm)	22.2	22.2	22.2	22.2	28.6	28.6	34.9	34.9
230-3-50 and 400-3-50								
Speed (r/s)	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75
Shaft kW	1.79	2.16	2.16	3.73	3.73	3.73	5.60	7.46
Frame(NEMA)	56Y	56Y	56Y	S184T	S184T	S184T	S213T	S215T
Shaft Dia (mm)	22.2	22.2	22.2	22.2	28.6	28.6	34.9	34.9

LEGEND

NEMA — National Electrical Manufacturers Association (U.S.A.)

Application data (cont)

STANDARD DRIVE DATA, 60 Hz — ENGLISH

UNIT	40RM 007	40RM 40RMQ 40RMS 008	40RMS 010	40RM 40RMQ 40RMS 012	40RM 40RMS 014	40RM 40RMQ 40RMS 016	40RM 40RMQ 40RMS 024	40RM 40RMQ 40RMS 028	40RM 40RMS 034
MOTOR DRIVE									
Motor Pulley Pitch Diameter (in.)	2.4-3.4	2.8-3.8	2.8-3.8	3.4-4.4	2.8-3.8	2.8-3.8	3.7-4.7	4.3-5.3	4.3-5.3
Pulley Factory Setting Full Turns Open	2.5	2.5	2.5	2.5	2.5	2.5	3.0	3.0	3.0
FAN DRIVE									
Pulley Pitch Dia (in.)	8.8	8.8	8.8	8.8	9.0	9.0	9.4	11.0	11.0
Pulley Bore (in.)	1	1	1	1	$1^{7}/_{16}$	$1^{7}/_{16}$	$1^{7}/_{16}$	$1^{15}/_{16}$	$1^{15}/_{16}$
Belt No. — Section	1—A	1—A	1—A	1—A	1—A	1—A	2—B	2—B*	2—B*
Belt Pitch (in.)	40.3	41.3	41.3	42.3	42.3	42.3	41.8	(2) 42.8 (2) 43.8	(2) 42.8 (2) 43.8
FAN SPEEDS (rpm)									
Factory Settings	568	647	647	764	632	632	771	752	752
Range	470-666	549-745	549-745	666-863	537-728	537-728	679-863	682-841	674-831
Max Allowable Speed (rpm)	1200	1200	1200	1200	1200	1200	1200	1100	1100
Change per $^{1}/_{2}$ turn of Moveable Motor Pulley Flange	19.6	19.6	19.6	19.7	19.1	19.1	15.3	13.1	13.1
MAX FULL TURNS FROM CLOSED POSITION	5	5	5	5	5	5	6	6	6
SHAFTS CENTER DISTANCE (in.)	10.44-12.32	10.44-12.32	10.44-12.32	10.44-12.32	10.44-12.32	10.44-12.32	9.12-10.99	6.67-9.43	6.67-9.43

*Four belts shipped with unit. Use correct set of 2 belts sized according to the pulley setting.

MEDIUM-STATIC DRIVE DATA, 60 Hz — ENGLISH

UNIT	40RM 007	40RM 40RMQ 40RMS 008	40RMS 010	40RM 40RMQ 40RMS 012	40RM 40RMS 014	40RM 40RMQ 40RMS 016	40RM 40RMQ 40RMS 024	40RM 40RMQ 40RMS 028	40RM 40RMS 034
MOTOR DRIVE									
Motor Pulley Pitch Diameter (in.)	3.4-4.4	3.4-4.4	3.4-4.4	3.4-4.4	3.4-4.4	3.7-4.7	4.3-5.3	4.3-5.3	4.3-5.3
Pulley Factory Setting Full Turns Open	2.5	2.5	2.5	2.5	2.5	3.0	3.0	3.0	3.0
FAN DRIVE									
Pulley Pitch Dia (in.)	8.8	8.0	8.0	8.0	8.2	8.6	9.4	9.4	9.4
Pulley Bore (in.)	1	1	1	1	$1^{7}/_{16}$	$1^{7}/_{16}$	$1^{7}/_{16}$	$1^{15}/_{16}$	$1^{15}/_{16}$
Belt No. — Section	1—A	1—A	1—A	1—A	1—A	1—B	2—B	2—B*	2—B*
Belt Pitch (in.)	42.3	40.3	40.3	40.3	41.3	41.8	41.8	(2) 38.8 (2) 39.8	(2) 38.8 (2) 39.8
FAN SPEEDS (rpm)									
Factory Setting	764	841	841	841	820	842	881	881	881
Range	666-863	733-949	733-949	733-949	715-926	742-943	798-984	798-984	798-984
Max Allowable Speed (rpm)	1200	1200	1200	1200	1200	1200	1200	1100	1100
Change per $^{1}/_{2}$ Turn of Moveable Motor Pulley Flange	19.7	21.6	21.6	21.6	21.1	16.7	15.3	15.3	15.3
MAX FULL TURNS FROM CLOSED POSITION	5	5	5	5	5	6	6	6	6
SHAFTS CENTER DISTANCE (in.)	10.44-12.32	10.44-12.32	10.44-12.32	10.44-12.32	10.44-12.32	10.44-12.32	9.16-10.99	6.67-9.43	6.67-9.43

*Four belts shipped with unit. Use correct set of 2 belts sized according to the pulley setting.

HIGH-STATIC DRIVE DATA, 60 Hz — ENGLISH

UNIT	40RM 007	40RM 40RMQ 40RMS 008	40RMS 010	40RM 40RMQ 40RMS 012	40RM 40RMS 014	40RM 40RMQ 40RMS 016	40RM 40RMQ 40RMS 024	40RM 40RMQ 40RMS 028	40RM 40RMS 034
MOTOR DRIVE									
Motor Pulley Pitch Diameter (in.)	3.4-4.4	3.4-4.4	3.4-4.4	3.4-4.4	3.7-4.7	4.3-5.3	4.3-5.3	4.3-5.3	4.3-5.3
Pulley Factory Setting Full Turns Open	2.5	2.5	2.5	2.5	3.0	3.0	3.0	3.0	3.0
FAN DRIVE									
Pulley Pitch Dia (in.)	7.0	6.0*	6.0	6.0	7.4	7.9	7.4	8.6	8.6
Pulley Bore (in.)	1	1	1	1	$1^{7}/_{16}$	$1^{7}/_{16}$	$1^{7}/_{16}$	$1^{15}/_{16}$	$1^{15}/_{16}$
Belt No. — Section	1—A	1—A	1—A	1—A	1—B	1—B	2—B	2—B	2—B
Belt Pitch (in.)	41.3	37.3	37.3	37.3	39.8	39.8	36.8	37.8	37.8
FAN SPEEDS (rpm)									
Factory Setting	961	1121	1121	1121	979	1060	1118	1024	1024
Range	838-1084	978-1200*†	978-1200†	978-1200†	873-1096	950-1171	1014-1200†	873-1075	873-1075
Max Allowable Speed (rpm)	1200	1200	1200	1200	1200	1200	1200	1100	1100
Change per $^{1}/_{2}$ Turn of Moveable Motor Pulley Flange	24.6	28.7	28.7	28.7	19.4	18.4	19.4	16.7	16.7
MAX FULL TURNS FROM CLOSED POSITION	5	5	5	5	6	6	6	6	6
SHAFTS CENTER DISTANCE (in.)	10.44-12.32	10.44-12.32	10.44-12.32	10.44-12.32	10.44-12.32**	9.16-10.99	8.16-10.02	6.67-9.43	6.67-9.43

*Values for 3-phase motor shown. For single-phase motor, pulley pitch diameter is 7 in. and resulting fan speed is 837-1096 rpm.
†It is possible to adjust drive so that fan speed exceeds maximum allowable. DO NOT exceed 1200 rpm.
**575-v unit has a center distance of 9.16-10.99.

STANDARD DRIVE DATA, 50 Hz — ENGLISH

UNIT	40RM 007	40RM 40RMQ 40RMS 008	40RMS 010	40RM 40RMQ 40RMS 012	40RM 40RMS 014	40RM 40RMQ 40RMS 016	40RM 40RMQ 40RMS 024	40RM 40RMQ 40RMS 028	40RM 40RMS 034
MOTOR DRIVE									
Motor Pulley Pitch Diameter (in.)	2.4-3.4	2.8-3.8	2.8-3.8	3.4-4.4	3.4-4.4	3.4-4.4	4.3-5.3	4.3-5.3	4.3-5.3
Pulley Factory Setting Full Turns Open	2.5	2.5	2.5	2.5	2.5	2.5	3.0	3.0	3.0
FAN DRIVE									
Pulley Pitch Dia (in.)	8.0	8.0	8.0	8.0	9.0	9.0	8.6	11.0	11.0
Pulley Bore (in.)	1	1	1	1	$1^{7}/_{16}$	$1^{7}/_{16}$	$1^{7}/_{16}$	$1^{15}/_{16}$	$1^{15}/_{16}$
Belt No. — Section	1—A	1—A	1—A	1—A	1—A	1—A	1—B	2—B	2—B
Belt Pitch (in.)	39.3	39.3	39.3	40.3	42.3	42.3	41.8	43.8	43.8
FAN SPEEDS (rpm)									
Factory Setting	517	588	588	695	618	618	795	622	622
Range	428-606	499-677	449-677	606-784	538-697	538-697	713-878	557-687	557-687
Max Allowable Speed (rpm)	1200	1200	1200	1200	1200	1200	1200	1100	1100
Change per $^{1}/_{2}$ Turn of Moveable Motor Pulley Flange	17.8	17.8	17.8	17.8	15.9	15.9	13.8	10.8	10.8
MAX FULL TURNS FROM CLOSED POSITION	5	5	5	5	5	5	6	6	6
SHAFTS CENTER DISTANCE (in.)	10.44-12.32	10.44-12.32	10.44-12.32	10.44-12.32	10.44-12.32	10.44-12.32	9.12-10.99	6.67-9.43	6.67-9.43

Application data (cont)

MEDIUM-STATIC DRIVE DATA, 50 Hz — ENGLISH

UNIT	40RM 007	40RM 40RMQ 40RMS 008	40RMS 010	40RM 40RMQ 40RMS 012	40RM 40RMS 014	40RM 40RMQ 40RMS 016	40RM 40RMQ 40RMS 024	40RM 40RMQ 40RMS 028	40RM 40RMS 034
MOTOR DRIVE									
Motor Pulley Pitch Diameter (in.)	3.4-4.4	3.4-4.4	3.4-4.4	3.4-4.4	3.4-4.4	3.7-4.7	4.0-5.0	4.3-5.3	4.3-5.3
Pulley Factory Setting Full Turns Open	2.5	2.5	2.5	2.5	2.5	3.0	2.5	3.0	3.0
FAN DRIVE									
Pulley Pitch Dia (in.)	8.0	7.0	7.0	6.0	7.5	7.9	7.0	9.4	9.4
Pulley Bore (in.)	1	1	1	1	$1^{7}/_{16}$	$1^{7}/_{16}$	$1^{7}/_{16}$	$1^{15}/_{16}$	$1^{15}/_{16}$
Belt No. — Section	1—A	1—A	1—A	1—A	1—A	1—B	2—A	2—B	2—B
Belt Pitch (in.)	40.3	41.3	41.3	37.3	39.3	39.8	36.8	39.8	39.8
FAN SPEEDS (rpm)									
Factory Setting	695	794	794	926	741	756	916	728	728
Range	606-784	692-896	692-896	808-1045	646-836	667-848	814-1018	652-803	652-803
Max Allowable Speed (rpm)	1200	1200	1200	1200	1200	1200	1200	1100	1100
Change per $^{1}/_{2}$ Turn of Moveable Motor Pulley Flange	17.8	20.4	20.4	23.7	19.0	15.1	20.4	12.6	12.6
MAX FULL TURNS FROM CLOSED POSITION	5	5	5	5	5	6	5	6	6
SHAFTS CENTER DISTANCE (in.)	10.44-12.32	10.44-12.32	10.44-12.32	10.44-12.32	10.44-12.32	9.16-10.99	9.16-10.99	6.67-9.43	6.67-9.43

HIGH-STATIC DRIVE DATA, 50 Hz — ENGLISH

UNIT	40RM 007	40RM 40RMQ 40RMS 008	40RMS 010	40RM 40RMQ 40RMS 012	40RM 40RMS 014	40RM 40RMQ 40RMS 016	40RM 40RMQ 40RMS 024	40RM 40RMQ 40RMS 028	40RM 40RMS 034
MOTOR DRIVE									
Motor Pulley Pitch Diameter (in.)	3.4-4.4	3.4-4.4	3.4-4.4	4.0-5.0	3.4-4.4	4.0-5.0	4.0-5.0	4.3-5.3	4.3-5.3
Pulley Factory Setting Full Turns Open	2.5	2.5	2.5	3.0	2.5	3.0	3.0	3.0	3.0
FAN DRIVE									
Pulley Pitch Dia (in.)	6.0	5.5	5.5	5.5	6.0	7.0	6.4	8.0	8.6
Pulley Bore (in.)	1	1	1	1	$1^{7}/_{16}$	$1^{7}/_{16}$	$1^{7}/_{16}$	$1^{15}/_{16}$	$1^{15}/_{16}$
Belt No. — Section	1—A	1—A	1—A	1—A	2—A	2—A	2—A	2—B	2—B
Belt Pitch (in.)	37.3	37.3	37.3	36.3	36.3	39.3	34.3	36.8	37.8
FAN SPEEDS (rpm)									
Factory Setting	926	1010	1010	1166	926	916	1002	855	795
Range	808-1045	881-1140	881-1140	1036-1200*	808-1045	814-1018	891-1113	766-944	713-878
Max Allowable Speed (rpm)	1200	1200	1200	1200	1200	1200	1200	1100	1100
Change per $^{1}/_{2}$ Turn of Moveable Motor Pulley Flange	23.7	25.9	25.9	21.6	23.7	17.0	18.5	14.8	13.8
MAX FULL TURNS FROM CLOSED POSITION	5	5	5	6	5	6	6	6	6
SHAFTS CENTER DISTANCE (in.)	10.44-12.32	10.44-12.32	10.44-12.32	9.16-10.99	9.16-10.99	9.16-10.99	8.16-10.02	6.67-9.43	6.67-9.43

*It is possible to adjust drive so that fan speed exceeds maximum allowable. DO NOT exceed 1200 rpm.

STANDARD DRIVE DATA, 60 Hz — SI

UNIT	40RM 007	40RM 40RMQ 40RMS 008	40RMS 010	40RM 40RMQ 40RMS 012	40RM 40RMS 014	40RM 40RMQ 40RMS 016	40RM 40RMQ 40RMS 024	40RM 40RMQ 40RMS 028	40RM 40RMS 034
MOTOR DRIVE									
Motor Pulley Pitch Diameter (mm)	61.0-86.4	71.1-96.5	71.1-96.5	86.4-111.8	71.1-96.5	71.1-96.5	94.0-119.4	109.2-134.6	109.2-134.6
Pulley Factory Setting Full Turns Open	2.5	2.5	2.5	2.5	2.5	2.5	3.0	3.0	3.0
FAN DRIVE									
Pulley Pitch Dia (mm)	224	224	224	224	229	229	239	279	279
Pulley Bore (mm)	25.4	25.4	25.4	25.4	36.5	36.5	36.5	49.2	49.2
Belt No. — Section	1—A	1—A	1—A	1—A	1—A	1—A	2—B	2—B*	2—B*
Belt Pitch (mm)	1024	1049	1049	1074	1074	1074	1062	(2) 1087 (2) 1113	(2) 1087 (2) 1113
FAN SPEEDS (r/s)									
Factory Setting	9.5	10.8	10.8	12.7	10.5	10.5	12.9	12.5	12.5
Range	7.8-11.1	9.2-12.4	9.2-12.4	11.1-14.4	9.0-12.1	9.0-12.1	11.3-14.4	11.4-14.0	11.2-13.9
Max Allowable Speed (r/s)	20.0	20.0	20.0	20.0	20.0	20.0	20.0	18.3	18.3
Change per $^1/_2$ Turn of Moveable Motor Pulley Flange	0.327	0.327	0.327	0.328	0.318	0.318	0.255	0.218	0.218
MAX FULL TURNS FROM CLOSED POSITION	5	5	5	5	5	5	6	6	6
SHAFTS CENTER DISTANCE (mm)	265-313	265-313	265-313	265-313	265-313	265-313	232-279	169-240	169-240

*Four belts shipped with unit. Use correct set of 2 belts sized according to the pulley setting.

MEDIUM-STATIC DRIVE DATA, 60 Hz — SI

UNIT	40RM 007	40RM 40RMQ 40RMS 008	40RMS 010	40RM 40RMQ 40RMS 012	40RM 40RMS 014	40RM 40RMQ 40RMS 016	40RM 40RMQ 40RMS 024	40RM 40RMQ 40RMS 028	40RM 40RMS 034
MOTOR DRIVE									
Motor Pulley Pitch Diameter (mm)	86.4-111.8	86.4-111.8	86.4-111.8	86.4-111.8	86.4-111.8	94.0-119.4	109.2-134.6	109.2-134.6	109.2-134.6
Pulley Factory Setting Full Turns Open	2.5	2.5	2.5	2.5	2.5	3.0	3.0	3.0	3.0
FAN DRIVE									
Pulley Pitch Dia (mm)	224	203	203	203	208	218	239	239	239
Pulley Bore (mm)	25.4	25.4	25.4	25.4	36.5	36.5	36.5	49.2	49.2
Belt No. — Section	1—A	1—A	1—A	1—A	1—A	1—B	2—B	2—B*	2—B*
Belt Pitch (mm)	1074	1024	1024	1024	1049	1062	1062	(2) 986 (2) 1011	(2) 986 (2) 1011
FAN SPEEDS (r/s)									
Factory Setting	12.7	14.0	14.0	14.0	13.7	14.0	14.7	14.7	14.7
Range	11.1-14.4	12.2-15.8	12.2-15.8	12.2-15.8	11.9-15.4	12.4-15.7	13.3-16.4	13.3-16.4	13.3-16.4
Max Allowable Speed (r/s)	20.0	20.0	20.0	20.0	20.0	20.0	20.0	18.3	18.3
Change per $^1/_2$ Turn of Moveable Motor Pulley Flange	0.328	0.360	0.360	0.360	0.352	0.278	0.255	0.255	0.255
MAX FULL TURNS FROM CLOSED POSITION	5	5	5	5	6	6	6	6	6
SHAFTS CENTER DISTANCE (mm)	265-313	265-313	265-313	265-313	265-313	265-313	232-279	169-240	169-240

*Four belts shipped with unit. Use correct set of 2 belts sized according to the pulley setting.

Application data (cont)

HIGH-STATIC DRIVE DATA, 60 Hz — SI

UNIT	40RM 007	40RM 40RMQ 40RMS 008	40RMS 010	40RM 40RMQ 40RMS 012	40RM 40RMS 014	40RM 40RMQ 40RMS 016	40RM 40RMQ 40RMS 024	40RM 40RMQ 40RMS 028	40RM 40RMS 034
MOTOR DRIVE									
Motor Pulley Pitch Diameter (mm)	86.4-111.8	86.4-111.8	86.4-111.8	86.4-111.8	94.0-119.4	109.2-134.6	109.2-134.6	109.2-134.6	109.2-134.6
Pulley Factory Setting Full Turns Open	2.5	2.5	2.5	2.5	3.0	3.0	3.0	3.0	3.0
FAN DRIVE									
Pulley Pitch Dia (mm)	178	152*	152	152	188	201	188	203	203
Pulley Bore (mm)	25.4	25.4	25.4	25.4	36.5	36.5	36.5	49.2	49.2
Belt No. — Section	1—A	1—A	1—A	1—A	1—B	1—B	2—B	2—B	2—B
Belt Pitch (mm)	1049	947	947	947	1011	1011	935	935	960
FAN SPEEDS (r/s)									
Factory Setting	16.0	18.7	18.7	18.7	16.3	17.7	18.6	17.1	17.1
Range	14.0-18.1	16.3-20.0*†	16.3-20.0†	16.3-20.0†	14.4-18.3	15.8-19.5	16.9-20.0†	14.6-17.9	14.6-17.9
Max Allowable Speed (r/s)	20.0	20.0	20.0	20.0	20.0	20.0	20.0	18.3	18.3
Change per 1/2 Turn of Moveable Motor Pulley Flange	0.410	0.478	0.478	0.478	0.323	0.307	0.323	0.278	0.278
MAX FULL TURNS FROM CLOSED POSITION	5	5	5	5	6	6	6	6	6
SHAFTS CENTER DISTANCE (mm)	265-313	265-313	265-313	265-313	265-313**	232-279	207-255	169-240	169-240

*Values for 3-phase motor shown. For single-phase motor, pulley pitch diameter is 178 mm and resulting fan speed is 14.0-18.3 r/s.

†It is possible to adjust drive so that fan speed exceeds maximum allowable. DO NOT exceed 20 r/s.

**575-v unit has a center distance of 233-279.

STANDARD DRIVE DATA, 50 Hz — SI

UNIT	40RM 007	40RM 40RMQ 40RMS 008	40RMS 010	40RM 40RMQ 40RMS 012	40RM 40RMS 014	40RM 40RMQ 40RMS 016	40RM 40RMQ 40RMS 024	40RM 40RMQ 40RMS 028	40RM 40RMS 034
MOTOR DRIVE									
Motor Pulley Pitch Diameter (mm)	61.0-86.4	71.1-96.5	71.1-96.5	86.4-111.8	86.4-111.8	86.4-111.8	109.2-134.6	109.2-134.6	109.2-134.6
Pulley Factory Setting Full Turns Open	2.5	2.5	2.5	2.5	2.5	2.5	3.0	3.0	3.0
FAN DRIVE									
Pulley Pitch Dia (mm)	203	203	203	203	229	229	218	279	279
Pulley Bore (mm)	25.4	25.4	25.4	25.4	36.5	36.5	36.5	49.2	49.2
Belt No. — Section	1—A	1—A	1—A	1—A	1—A	1—A	1—B	2—B	2—B
Belt Pitch (mm)	998	998	998	1024	1074	1074	1062	1113	1113
FAN SPEEDS (r/s)									
Factory Setting	8.6	9.8	9.8	11.6	10.3	10.3	13.3	10.4	10.4
Range	7.1-10.1	8.3-11.3	8.3-11.3	10.1-13.1	9.0-11.6	9.0-11.6	11.9-14.6	9.3-11.5	9.3-11.5
Max Allowable Speed (r/s)	20.0	20.0	20.0	20.0	20.0	20.0	20.0	18.3	18.3
Change per 1/2 Turn of Moveable Motor Pulley Flange	0.297	0.297	0.297	0.297	0.265	0.265	0.230	0.180	0.180
MAX FULL TURNS FROM CLOSED POSITION	5	5	5	5	5	5	6	6	6
SHAFTS CENTER DISTANCE (mm)	265-313	265-313	265-313	265-313	265-313	265-313	232-279	169-240	169-240

MEDIUM-STATIC DRIVE DATA, 50 Hz — SI

UNIT	40RM 007	40RM 40RMQ 40RMS 008	40RMS 010	40RM 40RMQ 40RMS 012	40RM 40RMS 014	40RM 40RMQ 40RMS 016	40RM 40RMQ 40RMS 024	40RM 40RMQ 40RMS 028	40RM 40RMS 034
MOTOR DRIVE									
Motor Pulley Pitch Diameter (mm)	86.4-111.8	86.4-111.8	86.4-111.8	86.4-111.8	86.4-111.8	94.0-119.4	101.6-127.0	109.2-134.6	109.2-134.6
Pulley Factory Setting Full Turns Open	2.5	2.5	2.5	2.5	2.5	3.0	2.5	3.0	3.0
FAN DRIVE									
Pulley Pitch Dia (mm)	203	178	178	152	191	201	178	239	239
Pulley Bore (mm)	25.4	25.4	25.4	25.4	36.5	36.5	36.5	49.2	49.2
Belt No. — Section	1—A	1—A	1—A	1—A	1—A	1—B	2—A	2—B	2—B
Belt Pitch (mm)	1024	1049	1049	947	998	1011	922	1011	1011
FAN SPEEDS (r/s)									
Factory Setting	11.6	13.2	13.2	15.4	12.4	12.6	15.3	12.1	12.1
Range	10.1-13.1	11.5-14.9	11.5-14.9	13.5-17.4	10.8-13.9	11.1-14.1	13.6-17.0	10.9-13.4	10.9-13.4
Max Allowable Speed (r/s)	20.0	20.0	20.0	20.0	20.0	20.0	20.0	18.3	18.3
Change per 1/2 Turn of Moveable Motor Pulley Flange	0.297	0.340	0.340	0.395	0.317	0.252	0.340	0.210	0.210
MAX FULL TURNS FROM CLOSED POSITION	5	5	5	5	5	6	5	6	6
SHAFTS CENTER DISTANCE (mm)	265-313	265-313	265-313	265-313	265-313	232-279	232-279	169-240	169-240

HIGH-STATIC DRIVE DATA, 50 Hz — SI

UNIT	40RM 007	40RM 40RMQ 40RMS 008	40RMS 010	40RM 40RMQ 40RMS 012	40RM 40RMS 014	40RM 40RMQ 40RMS 016	40RM 40RMQ 40RMS 024	40RM 40RMQ 40RMS 028	40RM 40RMS 034
MOTOR DRIVE									
Motor Pulley Pitch Diameter (mm)	86.4-111.8	86.4-111.8	86.4-111.8	101.6-127.0	86.4-111.8	101.6-127.0	101.6-127.0	109.2-134.6	109.2-134.6
Pulley Factory Setting Full Turns Open	2.5	2.5	2.5	3.0	2.5	3.0	3.0	3.0	3.0
FAN DRIVE									
Pulley Pitch Dia (mm)	152	140	140	140	152	178	163	203	218
Pulley Bore (mm)	25.4	25.4	25.4	25.4	36.5	36.5	36.5	49.2	49.2
Belt No. — Section	1—A	1—A	1—A	1—A	2—A	2—A	2—A	2—B	2—B
Belt Pitch (mm)	947	947	947	922	922	998	871	935	960
FAN SPEEDS (r/s)									
Factory Setting	15.4	16.8	16.8	19.4	15.4	15.3	16.7	14.3	13.3
Range	13.5-17.4	14.7-19.0	14.7-19.0	17.3-20.0*	13.5-17.4	13.6-17.0	14.9-18.6	12.8-15.7	11.9-14.6
Max Allowable Speed (r/s)	20.0	20.0	20.0	20.0	20.0	20.0	20.0	18.3	18.3
Change per 1/2 Turn of Moveable Motor Pulley Flange	0.395	0.432	0.432	0.360	0.395	0.283	0.308	0.247	0.230
MAX FULL TURNS FROM CLOSED POSITION	5	5	5	6	5	6	6	6	6
SHAFTS CENTER DISTANCE (mm)	265-313	265-313	265-313	234-279	232-279	232-279	207-255	169-240	169-240

*It is possible to adjust drive so that fan speed exceeds maximum allowable. DO NOT exceed 20 r/s.

Guide specifications

Commercial Packaged Air-Handling Unit

HVAC Guide Specifications

Size Range: **2,400 to 12,000 Cfm (1150 to 5650 L/s), Nominal Airflow 6 to 30 Tons (21 to 105 kW), Nominal Cooling**

Carrier Model Numbers: **40RM (Direct-Expansion Coil)**
40RMQ (Direct-Expansion Heat Pump Coil)
40RMS (Chilled Water Coil)

Part 1 — GENERAL

1.01 SYSTEM DESCRIPTION

A. Indoor, packaged air-handling unit for use in commercial split systems. Unit shall have a multiposition design and shall be capable of horizontal or vertical installation on a floor or in a ceiling, with or without ductwork. (Only vertical units are to be applied without ductwork.)

B. Unit with direct-expansion coil shall be used in a refrigerant circuit with a matching air-cooled condensing unit. Unit with chilled water coil shall be used in a chilled water circuit.

1.02 QUALITY ASSURANCE

A. Coils shall be designed and tested in accordance with ASHRAE 15 Safety Code for Mechanical Refrigeration (U.S.A.), latest edition.

B. Unit shall be constructed in accordance with ETL (U.S.A.) and ETL, Canada, standards and shall carry the ETL and ETL, Canada, labels.

C. Unit insulation and adhesive shall comply with NFPA-90A (U.S.A.) requirements for flame spread and smoke generation. Insulation shall contain an EPA-registered immobilized antimicrobial agent to effectively resist the growth of bacteria and fungi as proven by tests in accordance with ASTM standards G21 and 22 (U.S.A.).

D. Unit shall be manufactured in a facility registered to the ISO 9002 manufacturing quality standard.

E. Direct-expansion and chilled water coils shall be burst and leak tested at 435 psi (2999 kPa).

1.03 DELIVERY AND STORAGE

Units shall be stored and handled per manufacturer's recommendations.

Part 2 — Products

2.01 EQUIPMENT

Indoor mounted, draw-thru, packaged air-handling unit that can be used in a suspended horizontal configuration or a vertical configuration. Unit shall consist of forward-curved belt-driven centrifugal fan(s), motor and drive assembly, prewired fan motor contactor, factory-installed refrigerant metering devices (direct-expansion coil units), cooling coil, 2-in. (51-mm) disposable air filters, and condensate drain pans for vertical or horizontal configurations.

A. Base Unit:

1. Cabinet shall be constructed of mill-galvanized steel.
2. Cabinet panels shall be fully insulated with $1/2$-in. (12.7-mm) fire-retardant material. Insulation shall contain an EPA-registered immobilized antimicrobial agent to effectively resist the growth of bacteria and fungi as proven by tests in accordance with ASTM standards G21 and 22 (U.S.A.).
3. Unit shall contain PVC condensate drain pans for both vertical and horizontal applications. Drain pans shall have connections on right and left sides of unit to facilitate field connection. Drain pans shall have the ability to be sloped toward the right or left side of the unit to prevent standing water from accumulating in pans.
4. Unit shall have factory-supplied 2-in. (51 mm) throwaway-type filters installed upstream from the cooling coil. Filter access shall be from either the right or left side of the unit.

B. Coils:

Coils shall consist of 3 rows (40RM, 40RMQ008, 40RMS), or 4 rows (40RMQ012-028) of copper tubes with sine-wave aluminum fins bonded to the tubes by mechanical expansion. Suction and liquid line connections or supply and discharge connections shall be made on the same side of the coil.

1. Direct-expansion coils shall feature factory-installed thermostatic expansion valves (TXVs) for refrigerant control. The TXVs shall be capable of external adjustment. Direct-expansion heat pump coils shall have a factory-installed bypass line and check valve assembly around the TXVs to allow liquid flow from the coil to the outdoor unit during the heating mode. Coil tubing shall be internally rifled to maximize heat transfer.
2. Chilled water coils shall be rated for an operating pressure of not less than 300 psig (2069 kPag).

C. Operating Characteristics:

Unit shall be capable of providing _____ cfm (L/s) airflow at an external static pressure of _____ in. wg (kPag).

D. Motor:

Fan motor of the size and electrical characteristics specified on the equipment schedule shall be factory supplied and installed.

Motors rated at 1.3 through 3.7 hp (0.97 through 2.76 kW) shall have internal thermal overload protection. Motors rated at 5, $7 1/2$, and 10 hp (3.73, 5.60, and 7.46 kW) shall be protected by a circuit breaker.

E. Factory-Installed Options:

1. Alternate Motor and Drive:

   An alternate motor and/or medium- or high-static drive shall be available to meet the airflow and external static pressure requirements specified on the equipment schedule.

2. High Capacity Coil:

   The high capacity coil consists of 4 rows of $^3/_8$-in. copper tubes with sine-wave aluminum fins bonded to the tubes by mechanical expansion. Coil tubing shall be internally rifled to maximize heat transfer. Suction and liquid line connections shall be made on the same side of the coil. Direct-expansion coils shall feature factory-installed thermostatic expansion valves (TXVs) for refrigerant control. The TXVs shall be capable of external adjustment.

3. External Paint:

   Where conditions require, units shall be painted with an American Sterling Gray finish.

F. Field-Installed Accessories:

1. Hot Water Coil:

   Coil shall be 2-row, U-bend coil with copper tubes and aluminum plate fins bonded to the tubes by mechanical expansion. Coil shall be mounted in a galvanized steel housing that shall be fastened to the unit's fan deck for blow-thru heating operation. Coil shall have maximum working pressure of 150 psig (1034 kPag).

2. Steam Distributing Coil:

   Coil shall consist of one row of copper tubes with aluminum plate fins, and shall have inner steam distributing tubes. Coil shall be mounted in a galvanized steel housing and shall be fastened to the unit's fan deck for blow-thru heating operation. Coil shall have maximum working pressure of 175 psig at 400 F (1207 kPag at 204.4 C).

3. Electric Heaters:

   Heaters for nominal 240, 480, or 575-volt, 3-phase, 60 Hz; and 240, 400-volt, 3 phase, 50 Hz power supply shall be factory-supplied for field installation as shown on the equipment drawings. Electric heat assembly shall be ETL (U.S.A.) and ETL, Canada, agency approved, and shall have single-point power wiring. Heater assembly shall include contactors with 24-v coils, power wiring, 24-v control wiring terminal blocks, and a hinged access panel. Electric heaters shall not be used with air discharge plenum.

4. Air Discharge Plenum:

   Plenum shall be factory supplied to provide free-blow air distribution for vertical floor-mounted units. A grille with moveable vanes for horizontal or vertical airflow adjustment shall be included. Plenum shall be field-assembled and field-installed on the unit's fan deck for blow-thru air distribution. Plenum shall not be used with electric heaters.

5. Return-Air Grille:

   Grille shall be factory supplied for field installation on the unit's return air opening.

6. Unit Subbase:

   Subbase assembly shall be factory supplied for field installation. Subbase shall elevate floor-mounted vertical units to provide access for correct condensate drain connection.

7. Economizer:

   Economizer for ventilation or "free" cooling shall be factory provided for field installation on either return air opening of air handler. For free cooling applications, economizer shall be compatible with separate thermostat; economizer dampers shall open when outdoor air enthalpy is suitable for free cooling. Economizer shall be compatible with separate CO_2 sensor accessory; economizer dampers shall open when indoor CO_2 level rises above predetermined set point. Economizer shall include enthalpy control and damper actuator.

8. Thermostat Controls:

   a. Debonair® programmable multi-stage thermostat with 7-day clock, holiday scheduling, large Thermoglow™ display, remote sensor capability, and Title 24 compliance.

   b. TEMP System programmable communicating multi-stage thermostat with fan switch, time clock, LCD display, °F/°C capability, and CCN compatibility.

   c. Commercial Electronic Thermostat with 7-day time clock, auto-changeover, multi-stage capability, and large LCD temperature display.

   d. Non-programmable thermostat with fan switch subbase.

9. Overhead Suspension Package:

   Package shall include necessary brackets to support units in a horizontal ceiling installation.

10. CO_2 Sensor:

    Sensor shall provide the ability to signal the economizer to open when the space CO_2 level exceeds the predetermined set point. Sensor shall have the capability of being connected to Comfort System relay pack or to economizer using field-supplied and -installed Honeywell dc adapter no. Q769C1004.

11. Condensate Drain Trap:

    Trap shall have transparent, serviceable design for easy cleaning. Kit shall include overflow shutoff switch and wiring harness for connection to an alarm if desired.

Guide specifications (cont)

12. UV-C Germicidal Lamps:
    a. UV-C emitters and fixtures shall be specifically designed for use inside an HVAC system. An ASME nozzled test apparatus using a 45 F (7.2 C) airstream moving at not less than 400 fpm (189 liters/sec.) shall measure individual lamp output. Lamp output at 253.7 nm shall not be less than 10μW/cm^2 per inch of arc length measured at a distance of one meter.
    b. UV-C power supplies shall be high efficiency, electric type which are matched to the emitters and are capable of producing the specified output intensity with an input power no more than 80 watts.
    c. Emitters and fixtures shall be installed in sufficient quantity and arranged so as to provide an equal distribution of UV-C energy on the coil and drain pan.
    d. The minimum UV-C energy striking the leading edge of the coil fins shall be not less than 820 μW/cm^2 at the closest point and through placement, not less than 60% of that value at the farthest point. Equal amounts are to strike the drain pan, either directly or indirectly through reflection.
    e. Emitters and fixtures shall be installed at right angles to the conforming lines of the coil fins, such that through incident angle reflection, UV-C energy strikes all target surfaces of the coil, drain pan, and the available line of sight airstream.