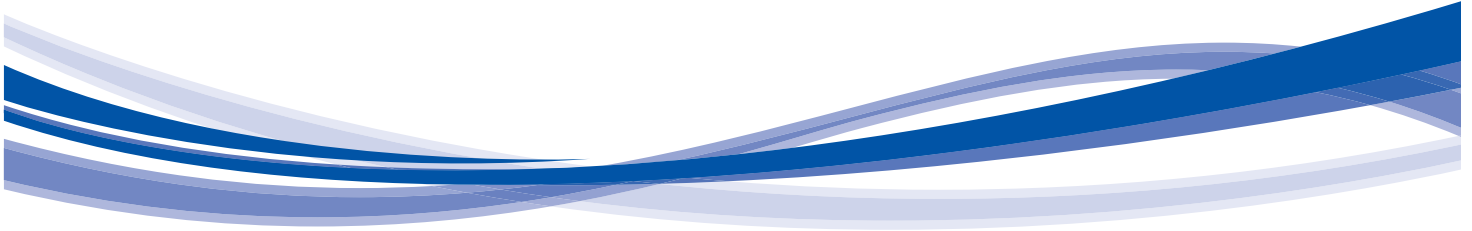




Product Data

Split System Heat Pump Outdoor Unit

6 to 25 Nominal Tons



38AXQ07-28 60 Hz Heat Pump Outdoor Unit Split
System with Puron Advance™ (R-454B) Refrigerant

Introducing Carrier's new Gemini™ heat pump condensing units with Puron Advance™ refrigerant — offering maximum flexibility for even the most demanding jobs.

Major design features of 38AXQ heat pump condensing units include:

- Puron Advance (R-454B) refrigerant, which delivers a 75% reduction in global warming potential (GWP) compared to the original Puron. Puron Advance's GWP of 466 easily exceeds the EPA (Environmental Protection Agency) requirement of <700 GWP
- Single circuit, two-stage, and dual circuit, three-stage designs for maximum performance and flexibility in new construction and replacement situations
- Economical cooling designs with a rugged, dependable build
- Cooling capability up to 125°F (52°C) ambient and down to 35°F (2°C) ambient standard

Installation flexibility

Carrier knows that split system installations are never easy. For that reason 38AXQ units were designed with application flexibility in mind. With a variety of offerings in single circuit, two-stage models (two pipe) and dual circuit, three-stage models (4 pipe), our heat pump condensing units can handle a variety of site design requirements. With piping guidelines similar to legacy R-410A and R-22 systems, replacements are easier than ever. All dissipation equipment is pre-installed in the 40RLQ heat pump fan coil and works seamlessly with the 38AXQ condensing unit through standard thermostat connections.

38AXQ products can be mounted on grade, on rails, or on a roof, and can accommodate air handlers installed above or below the condensing unit. That flexibility is perfect for decorative buildings like churches with pitched roofs where rooftop cooling equipment may not be practical or buildings that were originally designed without air conditioning.

Now, rather than mount an entire curb, all you need is a location to mount a fan coil and a few small holes for piping to pass through to keep occupants comfortable all year round. For complete product information and installation requirements, please consult the rest of this document and installation manuals.

Efficient operation

Our heat pump condensing units are tested and designed with our matched 40RLQ heat pump air handlers. This ensures reliable operation by minimizing issues with piping design and oil return. All systems are tested in accordance with AHRI standard 340/360 and offer IEERs up to 15.3. Increased IEER values help reduce overall operating cost and energy consumption.

Factory-installed options (FIOPs)

Pre-engineered and certified factory-installed options (FIOPs) minimize installation time at site, reducing installation cost.

FIOPs include:

- Low ambient controls which provide cooling operation down to -20°F (-29°C) ambient temperatures
- Non-fused disconnect
- Special coil coating protection
- Louvered hail guards

For situations where time is critical Carrier also offers a full line of field

installed accessories to upgrade stocked equipment at site to meet customer needs.

Constructed for a long life

The 38AXQ heat pump condensing units are designed and built to last. Featuring our new Puron Advance™ R-454B refrigerant, our split systems can be customized to suit a variety of building designs. Where conditions require, special coil coatings and coil protection are available and cabinets are constructed of pre-painted galvanized steel, delivering unparalleled protection from the environment to ensure long life, good looks, and reliable operation. Onboard Comfort Alert™¹ diagnostic controls are included standard to enhance system protection and reliability. When there is an issue, valuable diagnostic information is easily readable to get equipment back up and running fast.

Controls for performance dependability

The 38AXQ heat pump condensing units offer operating controls and components designed for dependable performance. The high efficiency hermetic scroll compressors are engineered for long life and durability and include vibration isolation for quiet operation. High-pressure switches protect the entire refrigeration system from abnormally high operating pressures and a low-pressure switch protects the system from loss of charge. These units also include anti-short-cycling protection, which helps to guard the units against compressor failure. All units include a crankcase heater to eliminate liquid slugging at start-up. Each unit comes standard with the Comfort Alert control system which provides:

- System Go LED indicator
- Fault LED indicator
- Compressor fault LED indicator
- Phase loss protection
- Phase reversal protection
- Safety pressure indicator
- Anti-short cycle protection

Innovative Carrier 40RLQ packaged heat pump air handlers are custom matched to 38AXQ condensing units. The 40RLQ Series has excellent fan performance, efficient heat pump coils, a unique combination of indoor-air quality features, and easy installation. Its versatility and state-of-the-art features help to ensure economical performance of the split system both

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now and in the future. See separate product data for more details.

Heat pump flexibility

38AXQ heat pump models offer onboard electromechanical heating standard. Our systems are tested for reliable reverse cycle heating operation. The result is a clean, environmentally responsible electric heat source to keep occupants comfortable year-round. All 38AXQ models can be easily controlled with a standard thermostat and remove the need to burn fossil fuels to heat your building. Should you need supplemental heat, we offer a full line of single point powered electric heaters for 40RLQ heat pump air handlers that can easily be installed at site.

Puron Advance™ features

In 2018, Carrier announced Puron Advance (R-454B) as our next generation refrigerant for light commercial products. With a GWP of 466 and similar working pressure and performance to R-410A, Puron Advance easily

exceeds the EPA's new, stringent <700 GWP refrigerant requirement while minimizing unit redesign. Like other next generation refrigerants (R-32, etc.), R-454B is classified as an "A2L" refrigerant by ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers). This designation means that R-454B is "mildly flammable" under certain conditions. While this is a change from legacy "A1 — No Flame Propagation" refrigerants like Puron (R-410A), A2Ls are still very low on the flammability scale and quite safe for use. A2L refrigerants are difficult to ignite and have an extremely low flame speed — much less so than natural gas, propane, or even rubbing alcohol. At Carrier, we are committed to safety. As such, all of our Puron Advance systems include a factory installed dissipation control board and leak sensor designed to last the lifetime of the unit. This system is certified to UL 60335-2-40 and designed to work right away, without any field configuration or wiring. In the event of

a leak, these systems automatically identify and resolve the issue by safely dissipating the refrigerant to minimize risk to equipment, buildings, or occupants.

Economy and rugged dependability

The 38AXQ heat pump condensing units and 40RLQ heat pump air handlers have low initial cost and energy-efficient operation to continue to save building owners money. With code compliant two or three stage operation, and mechanically bonded coil fins to improve heat transfer, Carrier's split systems help ensure occupants are comfortable with minimal energy spend. Our die-formed galvanized steel panels help ensure structural integrity under all operating conditions for a long operating life. With large control boxes and readily accessible components, 38AXQ units are designed for maintenance. In the event a full replacement is necessary, units can often be found in inventory.

Model number nomenclature



38AXQ 07-12 Model Number Nomenclature

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
3	8	A	X	Q	M	1	2	A	0	A	5	-	0	A	0	A	0

Model Type

38AX = Carrier Condensing Unit
Puron Advance™ R-454B Refrigerant

Heat Pump

Q = Heat Pump

Refrigerant Options¹

M = Single Circuit / 2-Stage
N = Single Circuit / 2-Stage with Low Ambient

Nominal Tonnage

07 = 6 Tons
08 = 7.5 Tons
12 = 10 Tons

Not Used

A = Not Used

Not Used

0 = Not Used

Coil Options (RTPF)

A = Al/Cu
B = Precoat (Al/Cu)
C = E-Coat (Al/Cu)
E = Cu/Cu
M = Al/Cu with Louvered Hail Guard
N = Precoat (Al/Cu) with Louvered Hail Guard
P = E-Coat (Al/Cu) with Louvered Hail Guard
R = Cu/Cu with Louvered Hail Guard

Packaging

0 = Standard

Electrical Options

A = None
C = Non-Fused Disconnect

Service Options

0 = None
1 = Un-powered Convenience Outlet
2 = Powered Convenience Outlet

Not Used

A = Not Used

Base Unit Controls

0 = Standard Electromechanical Controls

Not Used

- = Not Used

Voltage

1 = 575-3-60
5 = 208/230-3-60
6 = 460-3-60

¹ All units meet Department of Energy 2023 IEER requirements.

Model number nomenclature (cont)



38AXQ 16-25 Model Number Nomenclature

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
3	8	A	X	Q	T	1	6	A	0	A	5	-	0	A	0	A	0

Model Type

38AX = Carrier Condensing Unit
Puron Advance™ (R-454B)
Refrigerant

Heat Pump

Q = Heat Pump

Refrigerant Options¹

T = Dual Circuit, 3-Stage
U = Dual Circuit, 3-Stage with Low Ambient

Nominal Tonnage

16 = 15 Tons
25 = 20 Tons
28 = 25 Tons

Not Used

A = Not Used

Not Used

0 = Not Used

Coil Options (RTPF)

A = Al/Cu
B = Precoat (Al/Cu)
C = E-Coat (Al/Cu)
E = Cu/Cu
M = Al/Cu with Louvered Hail Guard
N = Precoat (Al/Cu) with Louvered Hail Guard
P = E-Coat (Al/Cu) with Louvered Hail Guard
R = Cu/Cu with Louvered Hail Guard

Packaging

0 = Standard

Electrical Options

A = None
C = Non-Fused Disconnect

Service Options

0 = None
1 = Un-powered Convenience Outlet
2 = Powered Convenience Outlet

Not Used

A = Not Used

Base Unit Controls

0 = Standard Electro-Mechanical Controls

Not Used

- = Not Used

Voltage

1 = 575-3-60
5 = 208/230-3-60
6 = 460-3-60

¹ All units meet Department of Energy 2023
IEER requirements.

Cooling^{a,b,c}

UNIT	COOLING STAGES	NOM. CAPACITY (TONS)	NET COOLING CAPACITY (MBH)	TOTAL POWER (kW)	EER	IEER w/ 2-SPEED
38AXQ(M,N)07 / 40RLQ07	2	6.0	70.0	6.0	11.7	15.3
38AXQ(M,N)08 / 40RLQ08	2	7.5	92.0	8.2	11.2	15.3
38AXQ(M,N)12 / 40RLQ12	2	10.0	112.0	10.2	11.0	15.3
38AXQ(T,U)16 / 40RLQ16	3	15.0	178.0	16.8	10.6	13.5
38AXQ(T,U)25 / 40RLQ25	3	20.0	240.0	23.8	10.1	13.4
38AXQ(T,U)28 / 40RLQ28	3	25.0	278.0	29.3	9.5	12.5

NOTE(S):

- Rated in accordance with AHRI Standard. Ratings are based on:
Cooling Standard: 80°F (27°C) db, 67°F (19°C) wb indoor air temp and 95°F (35°C) db outdoor air temp.
- All units comply with ASHRAE 90.1 Energy Standard for minimum EER and IEER requirements.
- All units are AHRI listed as factory defined matched combinations of specific indoor and outdoor unit components.

LEGEND

AHRI — Air-Conditioning, Heating and Refrigeration Institute
ASHRAE — American Society of Heating, Refrigerating and Air Conditioning, Inc.
EER — Energy Efficiency Ratio
IEER — Integrated Energy Efficiency Ratio

High Heat at 47°F (8°C)^{a,b,c}

UNIT	HEATING STAGES	NOM. CAPACITY (TONS)	NET HEATING CAPACITY (MBH)	TOTAL POWER (kW)	COP
38AXQ(M,N)07 / 40RLQ07	1	6.0	66.0	5.7	3.4
38AXQ(M,N)08 / 40RLQ08	1	7.5	88.0	7.4	3.5
38AXQ(M,N)12 / 40RLQ12	1	10.0	112.0	9.7	3.4
38AXQ(T,U)16 / 40RLQ16	1	15.0	178.0	14.9	3.5
38AXQ(T,U)25 / 40RLQ25	1	20.0	214.0	18.4	3.4
38AXQ(T,U)28 / 40RLQ28	1	25.0	260.0	23.8	3.2

NOTE(S):

- Rated in accordance with AHRI Standard. Ratings are based on:
IEER Standard: 80°F (27°C) db, 67°F (19°C) wb indoor air temp and 4 various outdoor temperatures.
- All units comply with ASHRAE 90.1 Energy Standard for minimum EER and IEER requirements.
- All units are AHRI listed as factory defined matched combinations of specific indoor and outdoor unit components.

LEGEND

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ASHRAE — American Society of Heating, Refrigerating and Air Conditioning, Inc.
COP — Coefficient Of Performance
EER — Energy Efficiency Ratio
IEER — Integrated Energy Efficiency Ratio

Low Heat at 17°F (-8°C)^{a,b,c}

UNIT	HEATING STAGES	NOM. CAPACITY (TONS)	NET HEATING CAPACITY (MBH)	TOTAL POWER (kW)	COP
38AXQ(M,N)07 / 40RLQ07	1	6.0	39.0	4.8	2.4
38AXQ(M,N)08 / 40RLQ08	1	7.5	54.0	6.6	2.4
38AXQ(M,N)12 / 40RLQ12	1	10.0	69.0	8.4	2.4
38AXQ(T,U)16 / 40RLQ16	1	15.0	108.0	13.2	2.4
38AXQ(T,U)25 / 40RLQ25	1	20.0	130.0	16.6	2.3
38AXQ(T,U)28 / 40RLQ28	1	25.0	155.0	22.7	2.0

NOTE(S):

- Rated in accordance with AHRI Standard. Ratings are based on:
IEER Standard: 80°F (27°C) db, 67°F (19°C) wb indoor air temp and 4 various outdoor temperatures.
- All units comply with ASHRAE 90.1 Energy Standard for minimum EER and IEER requirements.
- All units are AHRI listed as factory defined matched combinations of specific indoor and outdoor unit components.

LEGEND

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COP — Coefficient Of Performance
EER — Energy Efficiency Ratio
IEER — Integrated Energy Efficiency Ratio

Sound Power Levels, dB^a

UNIT	COOLING STAGES	A-WEIGHTED	LINEAR OCTAVE OUTDOOR SOUND (dB)							
			63	125	250	500	1000	2000	4000	8000
38AXQ(M,N)07	2	83.6	87.8	84.9	83.2	81.4	78.7	74.5	68.8	63.8
38AXQ(M,N)08	2	82.4	86.8	85.7	80.3	80.3	77.7	72.3	70.2	65.4
38AXQ(M,N)12	2	84.2	84.8	92.0	80.8	82.6	78.4	74.0	69.2	67.8
38AXQ(T,U)16	3	79.6	90.3	81.8	78.0	76.7	75.2	70.5	66.4	61.9
38AXQ(T,U)25	3	85.2	91.0	85.0	80.0	86.0	79.0	73.0	68.0	63.0
38AXQ(T,U)28	3	92.0	84.8	88.5	82.7	82.5	81.1	77.1	73.0	64.9

NOTE(S):

- Outdoor sound data is measure in accordance with AHRI standard 270.

LEGEND

dB — Decibel

Physical Data — 38AXQ*07-28 Units — English

UNIT	38AXQM/N07	38AXQM/N08	38AXQM/N12	38AXQT/U16	38AXQT/U25	38AXQT/U28
Nominal Capacity (tons)	6	7.5	10	15	20	25
Operating Weights (lb)						
Aluminum-Fin Coils	444	523	575	768	983	1352
Refrigeration System ^a	Puron Advance™ (R-454B)	Puron Advance™ (R-454B)	Puron Advance™ (R-454B)	Puron Advance™ (R-454B)	Puron Advance™ (R-454B)	Puron Advance™ (R-454B)
No. Circuits / No. Comp. / Type	1 / 1 / Scroll	1 / 1 / Scroll	1 / 1 / Scroll	2 / 2 / Scroll	2 / 2 / Scroll	2 / 2 / Scroll
Shipping Charge A/B (lb)	9.0	9.0	9.0	9.0 / 9.0	9.0 / 9.0	9.0 / 9.0
System Charge with Fan Coil A/B (lb) ^b	18	24.5	27	24 / 25	23.5 / 22.5	28.5 / 29.5
Metering Device	Acutrol™ ^c	Acutrol™	Acutrol™	Acutrol	Acutrol	TXV
High-Press. Trip / Reset (psig)	630 / 505	630 / 505	630 / 505	630 / 505	630 / 505	630 / 505
Low-Press. Trip / Reset (psig)	27 / 44	27 / 44	27 / 44	27 / 44	27 / 44	27 / 44
Compressor						
Oil Charge A/B (oz)	38	54	81	54 / 56	81 / 81	121 / 121
Speed (rpm)	3500	3500	3500	3500	3500	3500
Outdoor Coil						
Material	Al/Cu	Al/Cu	Al/Cu	Al/Cu	Al/Cu	Al/Cu
Coil Type	RTPF	RTPF	RTPF	RTPF	RTPF	RTPF
Rows / FPI	2 / 17	2 / 17	2 / 17	2 / 17	2 / 17	3 / 18
Total Face Area (ft²)	17.5	28.1	28.1	47.1	55.3	64.6
Outdoor Fan / Motor						
Qty / Motor Drive Type	2 / Direct	2 / Direct	2 / Direct	3 / Direct	4 / Direct	4 / Direct
Motor HP / RPM	1/4 / 1100	1/4 / 1100	1/4 / 1100	1/4 / 1100	1/4 / 1100	1/4 / 1100
Fan Diameter (in.)	22	22	22	22	22	22
Nominal Airflow (cfm)	6,000	6,000	6,000	10,000	14,000	14,000
Watts (total)	610	610	610	970	1150	1150
Piping Connections						
Qty / Vapor (in. ODS)	1 / 1-1/8	1 / 1-1/8	1 / 1-3/8	2 / 1-3/8	2 / 1-3/8	2 / 1-3/8
Qty / Liquid (in. ODS)	1 / 3/8	1 / 1/2	1 / 1/2	2 / 1/2	2 / 1/2	2 / 1/2

NOTE(S):

- Unit is factory-supplied with partial charge only.
- Approximate system charge with 25 ft piping of sizes indicated with matched 40RLQ.
- Third-party trademarks and logos are the property of their respective owners.

LEGEND

ODS — Outside Diameter Sweat (socket)
RTPF — Round Tube/Plate Fin

Suction Line Diameter — Condenser Above Evaporator^{a,b,c}

UNIT	NOMINAL TONNAGE	CIRCUITS	SUCTION RISER TYPE	LINEAR LENGTH (ft)	0-25	26-50		51-75		76-100		
				EQUIV. LINEAR LENGTH (ft)	0-37	38-74		75-112		113-149		
					Nominal	Nominal	Allowable	Nominal	Allowable	Nominal	Allowable	
38AXQ*07 40RLQA07	6	1	None	Suction Line Dia. (in.) (S)	7/8	1-1/8	1-3/8	1-1/8	1-3/8	1-1/8	1-3/8	
				Capacity Loss	0.0%	1.1%	0.1%	1.8%	0.4%	2.5%	0.6%	
			Speed Riser	Suction Line Dia. (in.) (S)	7/8	1-1/8	1-3/8	1-1/8	1-3/8	1-1/8	1-3/8	
				Suction Riser Dia. (in.) (A)	3/4	7/8	1-1/8	7/8	1-1/8	7/8	1-1/8	
			Double Suction Riser	Capacity Loss	2.4%	1.1%	0.1%	1.8%	0.4%	2.5%	0.6%	
				Suction Line Dia. (in.) (S)	1-1/8	1-1/8	1-3/8	1-1/8	1-3/8	1-1/8	1-3/8	
				Suction Riser Dia. (in.) (A)	3/4	3/4	7/8	3/4	7/8	3/4	7/8	
				Suction Riser Dia. (in.) (B)	7/8	7/8	1-1/8	7/8	1-1/8	7/8	1-1/8	
Capacity Loss	1.1%	2.5%	0.6%	3.3%	0.9%	4.0%	1.1%					
38AXQ*08 40RLQA08	7.5	1	None	Suction Line Dia. (in.) (S)	1-1/8	1-1/8	1-3/8	1-1/8	1-3/8	1-1/8	1-3/8	
				Capacity Loss	0.0%	1.1%	0.1%	1.8%	0.4%	2.5%	0.6%	
			Speed Riser	Suction Line Dia. (in.) (S)	1-1/8	1-1/8	1-3/8	1-1/8	1-3/8	1-1/8	1-3/8	
				Suction Riser Dia. (in.) (A)	7/8	7/8	1-1/8	7/8	1-1/8	7/8	1-1/8	
			Double Suction Riser	Capacity Loss	0.3%	1.1%	0.1%	1.8%	0.4%	2.5%	0.6%	
				Suction Line Dia. (in.) (S)	1-1/8	1-1/8	1-3/8	1-1/8	1-3/8	1-1/8	1-3/8	
				Suction Riser Dia. (in.) (A)	3/4	3/4	7/8	3/4	7/8	3/4	7/8	
				Suction Riser Dia. (in.) (B)	7/8	7/8	1-1/8	7/8	1-1/8	7/8	1-1/8	
Capacity Loss	1.1%	2.5%	0.6%	3.3%	0.9%	4.0%	1.1%					
38AXQ*12 40RLQA12	10	1	None	Suction Line Dia. (in.) (S)	1-1/8	1-1/8	1-3/8	1-1/8	1-3/8	1-1/8	1-3/8	
				Capacity Loss	0.0%	1.1%	0.1%	1.8%	0.4%	2.5%	0.6%	
			Speed Riser	Suction Line Dia. (in.) (S)	1-1/8	1-1/8	1-3/8	1-1/8	1-3/8	1-1/8	1-3/8	
				Suction Riser Dia. (in.) (A)	7/8	7/8	1-1/8	7/8	1-1/8	7/8	1-1/8	
			Double Suction Riser	Capacity Loss	0.3%	1.1%	0.1%	1.8%	0.4%	2.5%	0.6%	
				Suction Line Dia. (in.) (S)	1-1/8	1-1/8	1-3/8	1-1/8	1-3/8	1-1/8	1-3/8	
				Suction Riser Dia. (in.) (A)	3/4	3/4	7/8	3/4	7/8	3/4	7/8	
				Suction Riser Dia. (in.) (B)	7/8	7/8	1-1/8	7/8	1-1/8	7/8	1-1/8	
Capacity Loss	1.1%	2.5%	0.6%	3.3%	0.9%	4.0%	1.1%					
38AXQ*16 40RLQA16	15 Tons	2	A Circuit	None	Suction Line Dia. (in.) (S)	1-3/8	1-3/8	1-5/8	1-3/8	1-5/8	1-3/8	1-5/8
					Capacity Loss	0.0%	0.1%	0.0%	0.4%	0.0%	0.6%	0.0%
		Speed Riser		Suction Line Dia. (in.) (S)	1-3/8	1-3/8	1-5/8	1-3/8	1-5/8	1-3/8	1-5/8	
				Suction Riser Dia. (in.) (A)	1-1/8	1-1/8	1-3/8	1-1/8	1-3/8	1-1/8	1-3/8	
		Double Suction Riser	Capacity Loss	0.0%	0.1%	0.0%	0.4%	0.0%	0.6%	0.0%		
			Suction Line Dia. (in.) (S)	1-3/8	1-3/8	1-5/8	1-3/8	1-5/8	1-3/8	1-5/8		
			Suction Riser Dia. (in.) (A)	7/8	7/8	7/8	7/8	7/8	7/8	7/8		
			Suction Riser Dia. (in.) (B)	1-1/8	1-1/8	1-3/8	1-1/8	1-3/8	1-1/8	1-3/8		
		Capacity Loss	0.1%	0.6%	0.0%	0.9%	0.1%	1.1%	0.2%			
		B Circuit	None	Suction Line Dia. (in.) (S)	1-3/8	1-3/8		1-3/8		1-3/8		
				Capacity Loss	0.0%	0.0%		0.0%		0.0%		
			Speed Riser	Suction Line Dia. (in.) (S)	1-3/8	1-3/8		1-3/8		1-3/8		
				Suction Riser Dia. (in.) (A)	1-1/8	1-1/8		1-1/8		1-1/8		
			Double Suction Riser	Capacity Loss	0.0%	0.0%		0.0%		0.0%		
				Suction Line Dia. (in.) (S)	1-3/8	1-3/8		1-3/8		1-3/8		
				Suction Riser Dia. (in.) (A)	7/8	7/8		7/8		7/8		
Suction Riser Dia. (in.) (B)	1-1/8			1-1/8		1-1/8		1-1/8				
Capacity Loss	0.0%	0.0%		0.1%		0.2%						
38AXQ*25 40RLQA25	20 Tons	2	A Circuit	None	Suction Line Dia. (in.) (S)	1-3/8	1-3/8	1-5/8	1-3/8	1-5/8	1-3/8	1-5/8
					Capacity Loss	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%
		Speed Riser		Suction Line Dia. (in.) (S)	1-3/8	1-3/8	1-5/8	1-3/8	1-5/8	1-3/8	1-5/8	
				Suction Riser Dia. (in.) (A)	1-1/8	1-1/8	1-3/8	1-1/8	1-3/8	1-1/8	1-3/8	
		Double Suction Riser	Capacity Loss	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%		
			Suction Line Dia. (in.) (S)	1-3/8	1-3/8	1-5/8	1-3/8	1-5/8	1-3/8	1-5/8		
			Suction Riser Dia. (in.) (A)	7/8	7/8	7/8	7/8	7/8	7/8	7/8		
			Suction Riser Dia. (in.) (B)	1-1/8	1-1/8	1-3/8	1-1/8	1-3/8	1-1/8	1-3/8		
		Capacity Loss	0.0%	0.2%	0.0%	0.3%	0.0%	0.5%	0.0%			
		B Circuit	None	Suction Line Dia. (in.) (S)	1-3/8	1-3/8	1-5/8	1-3/8	1-5/8	1-3/8	1-5/8	
				Capacity Loss	0.0%	0.0%	0.0%	0.1%	0.0%	0.3%	0.0%	
			Speed Riser	Suction Line Dia. (in.) (S)	1-3/8	1-3/8	1-5/8	1-3/8	1-5/8	1-3/8	1-5/8	
				Suction Riser Dia. (in.) (A)	1-1/8	1-1/8	1-3/8	1-1/8	1-3/8	1-1/8	1-3/8	
			Double Suction Riser	Capacity Loss	0.0%	0.0%	0.0%	0.1%	0.0%	0.3%	0.0%	
				Suction Line Dia. (in.) (S)	1-3/8	1-3/8	1-5/8	1-3/8	1-5/8	1-3/8	1-5/8	
				Suction Riser Dia. (in.) (A)	7/8	7/8	7/8	7/8	7/8	7/8	7/8	
Suction Riser Dia. (in.) (B)	1-1/8			1-1/8	1-3/8	1-1/8	1-3/8	1-1/8	1-3/8			
Capacity Loss	0.0%	0.3%	0.0%	0.5%	0.0%	0.6%	0.0%					

Suction Line Diameter — Condenser Above Evaporator^{a,b,c} (cont)

UNIT	NOMINAL TONNAGE	CIRCUITS	SUCTION RISER TYPE	LINEAR LENGTH (ft)	0-25	26-50		51-75		76-100		
				EQUIV. LINEAR LENGTH (ft)	0-37	38-74		75-112		113-149		
					Nominal	Nominal	Allowable	Nominal	Allowable	Nominal	Allowable	
38AXQ*28 40RLQA28	25 Tons	2	A Circuit	None	Suction Line Dia. (in.) (S)	1-3/8	1-3/8	1-5/8	1-3/8	1-5/8	1-3/8	1-5/8
					Capacity Loss	0.0%	0.1%	0.0%	0.3%	0.0%	0.5%	0.0%
				Speed Riser	Suction Line Dia. (in.) (S)	1-3/8	1-3/8	1-5/8	1-3/8	1-5/8	1-3/8	1-5/8
					Suction Riser Dia. (in.) (A)	1-1/8	1-1/8	1-3/8	1-1/8	1-3/8	1-1/8	1-3/8
				Double Suction Riser	Capacity Loss	0.0%	0.1%	0.0%	0.3%	0.0%	0.5%	0.0%
					Suction Line Dia. (in.) (S)	1-3/8	1-3/8	1-5/8	1-3/8	1-5/8	1-3/8	1-5/8
			B Circuit	Double Suction Riser	Suction Riser Dia. (in.) (A)	7/8	7/8	7/8	7/8	7/8	7/8	7/8
					Suction Riser Dia. (in.) (B)	1-1/8	1-1/8	1-3/8	1-1/8	1-3/8	1-1/8	1-3/8
				Capacity Loss	0.1%	0.5%	0.0%	0.8%	0.1%	1.0%	0.2%	
					Suction Line Dia. (in.) (S)	1-3/8	1-3/8	1-5/8	1-3/8	1-5/8	1-3/8	1-5/8
				None	Suction Line Dia. (in.) (S)	1-3/8	1-3/8	1-5/8	1-3/8	1-5/8	1-3/8	1-5/8
					Capacity Loss	0.0%	0.2%	0.0%	0.4%	0.0%	0.7%	0.1%
				Speed Riser	Suction Line Dia. (in.) (S)	1-3/8	1-3/8	1-5/8	1-3/8	1-5/8	1-3/8	1-5/8
					Suction Riser Dia. (in.) (A)	1-1/8	1-1/8	1-3/8	1-1/8	1-3/8	1-1/8	1-3/8
Capacity Loss	0.0%	0.2%	0.0%		0.4%	0.0%	0.7%	0.1%				
	Suction Line Dia. (in.) (S)	1-3/8	1-3/8		1-5/8	1-3/8	1-5/8	1-3/8	1-5/8			
Double Suction Riser	Suction Riser Dia. (in.) (A)	7/8	7/8	7/8	7/8	7/8	7/8	7/8				
	Suction Riser Dia. (in.) (B)	1-1/8	1-1/8	1-3/8	1-1/8	1-3/8	1-1/8	1-3/8				
Capacity Loss	0.2%	0.7%	0.1%	1.0%	0.2%	1.3%	0.3%					

NOTE(S):

- A continuous rise of 0-10ft; no riser required.
A continuous rise of 11-30ft; speed riser required.
A continuous rise of 31-75ft; double riser required.
A continuous rise of more than 75ft is not recommended.
- For Speed Riser:
Tube S is the horizontal line size.
Tube A is the reduced diameter riser size.
See installation manual for further details.
- For Double Suction Riser:
Tube S is the horizontal line size.
Tube A is the reduced diameter riser size without bottom trap.
Tube B is the parallel riser size with bottom oil trap.
See installation manual for further details.

LEGEND

Option not recommended for this line size.

Liquid Line Diameter — Condenser Above Evaporator

UNIT	NOMINAL TONNAGE	CIRCUITS		LINEAR LENGTH (ft)	0-25	26-50		51-75		76-100	
				EQUIV. LINEAR LENGTH (ft)	0-37	38-74		75-112		113-149	
					Nominal	Nominal	Allowable	Nominal	Allowable	Nominal	Allowable
38AXQ*07 40RLQA07	6 Tons	1		Liquid Line Dia. (in.)	3/8	3/8	1/2	3/8	1/2	3/8	1/2
				Max. Lift (ft)	85	74	92	63	91	52	89
38AXQ*08 40RLQA08	7.5 Tons	1		Liquid Line Dia. (in.)	1/2	1/2	5/8	1/2	5/8	1/2	5/8
				Max. Lift (ft)	68	65	69	62	68	59	67
38AXQ*12 40RLQA12	10 Tons	1		Liquid Line Dia. (in.)	1/2	1/2	5/8	1/2	5/8	1/2	5/8
				Max. Lift (ft)	92	86	94	80	92	74	91
38AXQ*16 40RLQA16	15 Tons	2	A Circuit	Liquid Line Dia. (in.)	1/2	1/2	5/8	1/2	5/8		
				Max. Lift (ft)	60	57	61	54	60		
		B Circuit	Liquid Line Dia. (in.)	1/2	1/2	5/8	1/2	5/8			
			Max. Lift (ft)	60	41	45	38	44			
38AXQ*25 40RLQA25	20 Tons	2	A Circuit	Liquid Line Dia. (in.)	1/2	1/2	5/8	1/2	5/8	5/8	3/4
				Max. Lift (ft)	53	48	55	44	54	52	55
		B Circuit	Liquid Line Dia. (in.)	1/2	1/2	5/8	1/2	5/8	1/2	5/8	
			Max. Lift (ft)	53	64	72	58	70	52	69	
38AXQ*28 40RLQA28	25 Tons	2	A Circuit	Liquid Line Dia. (in.)	1/2	3/8	3/8	1/2	5/8	1/2	5/8
				Max. Lift (ft)	119	45	45	103	120	96	118
		B Circuit	Liquid Line Dia. (in.)	1/2	1/2	5/8	1/2	5/8	1/2	5/8	
			Max. Lift (ft)	119	103	117	94	114	84	112	

LEGEND

Option not recommended for this line size.

Liquid Line Diameter — Condenser Below Evaporator

UNIT	NOMINAL TONNAGE	CIRCUITS	LINEAR LENGTH (ft)	0-25	26-50		51-75		76-100	
			EQUIV. LINEAR LENGTH (ft)	0-37	38-74		75-112		113-149	
				Nominal	Nominal	Allowable	Nominal	Allowable	Nominal	Allowable
38AXQ*07 40RLQA07	6	1	Liquid Line Dia. (in.)	3/8	3/8	1/2	3/8	1/2	3/8	1/2
			Max. Lift (ft)	85	74	92	63	91	52	89
38AXQ*08 40RLQA08	7.5	1	Liquid Line Dia. (in.)	1/2	1/2	5/8	1/2	5/8	1/2	5/8
			Max. Lift (ft)	68	65	69	62	68	59	67
38AXQ*12 40RLQA12	10	1	Liquid Line Dia. (in.)	1/2	1/2	5/8	1/2	5/8	1/2	5/8
			Max. Lift (ft)	92	86	94	80	92	74	91
38AXQ*16 40RLQA16	15	2	A Circuit	Liquid Line Dia. (in.)	1/2	1/2	5/8	1/2	5/8	
			Max. Lift (ft)	60	57	61	54	60		
		B Circuit	Liquid Line Dia. (in.)	1/2	1/2	5/8	1/2	5/8		
			Max. Lift (ft)	60	41	45	38	44		
38AXQ*25 40RLQA25	20	2	A Circuit	Liquid Line Dia. (in.)	1/2	1/2	5/8	1/2	5/8	5/8
			Max. Lift (ft)	53	48	55	44	54	52	55
		B Circuit	Liquid Line Dia. (in.)	1/2	1/2	5/8	1/2	5/8	1/2	5/8
			Max. Lift (ft)	53	64	72	58	70	52	69
38AXQ*28 40RLQA28	25	2	A Circuit	Liquid Line Dia. (in.)	1/2	3/8	3/8	1/2	5/8	1/2
			Max. Lift (ft)	119	45	45	103	120	96	118
		B Circuit	Liquid Line Dia. (in.)	1/2	1/2	5/8	1/2	5/8	1/2	5/8
			Max. Lift (ft)	119	103	117	94	114	84	112

LEGEND

Option not recommended for this line size.

Suction Line Diameter — Condenser Level or Below Evaporator

UNIT	NOMINAL TONNAGE	CIRCUITS	LINEAR LENGTH (ft)	0-25	26-50		51-75		76-100	
			EQUIV. LINEAR LENGTH (ft)	0-37	38-74		75-112		113-149	
				Nominal	Nominal	Allowable	Nominal	Allowable	Nominal	Allowable
38AXQ*07 40RLQA07	6	1	Suction Line Dia. (in.)	7/8	1-1/8	1-3/8	1-1/8	1-3/8	1-1/8	1-3/8
			Capacity Loss	0.0%	1.1%	0.1%	1.8%	0.4%	2.5%	0.6%
38AXQ*08 40RLQA08	7.5	1	Suction Line Dia. (in.)	1-1/8	1-1/8	1-3/8	1-1/8	1-3/8	1-1/8	1-3/8
			Capacity Loss	0.0%	1.06%	0.11%	1.81%	0.37%	2.54%	0.62%
38AXQ*12 40RLQA12	10	1	Suction Line Dia. (in.)	1-1/8	1-1/8	1-3/8	1-1/8	1-3/8	1-1/8	1-3/8
			Capacity Loss	0.0%	1.06%	0.11%	1.81%	0.37%	2.54%	0.62%
38AXQ*16 40RLQA16	15	2	A Circuit	Suction Line Dia. (in.) (S)	1-3/8	1-3/8	1-5/8	1-3/8	1-5/8	1-3/8
			Capacity Loss	0.0%	0.1%	0.0%	0.4%	0.0%	0.6%	0.0%
		B Circuit	Suction Line Dia. (in.) (S)	1-3/8	1-3/8		1-3/8		1-3/8	
			Capacity Loss	0.0%	0.0%		0.0%		0.0%	
38AXQ*25 40RLQA25	20	2	A Circuit	Suction Line Dia. (in.) (S)	1-3/8	1-3/8	1-5/8	1-3/8	1-5/8	1-3/8
			Capacity Loss	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%
		B Circuit	Suction Line Dia. (in.) (S)	1-3/8	1-3/8	1-5/8	1-3/8	1-5/8	1-3/8	1-5/8
			Capacity Loss	0.0%	0.0%	0.0%	0.1%	0.0%	0.3%	0.0%
38AXQ*28 40RLQA28	25	2	A Circuit	Suction Line Dia. (in.) (S)	1-3/8	1-3/8	1-5/8	1-3/8	1-5/8	1-3/8
			Capacity Loss	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
		B Circuit	Suction Line Dia. (in.) (S)	1-3/8	1-3/8	1-5/8	1-3/8	1-5/8	1-3/8	1-5/8
			Capacity Loss	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

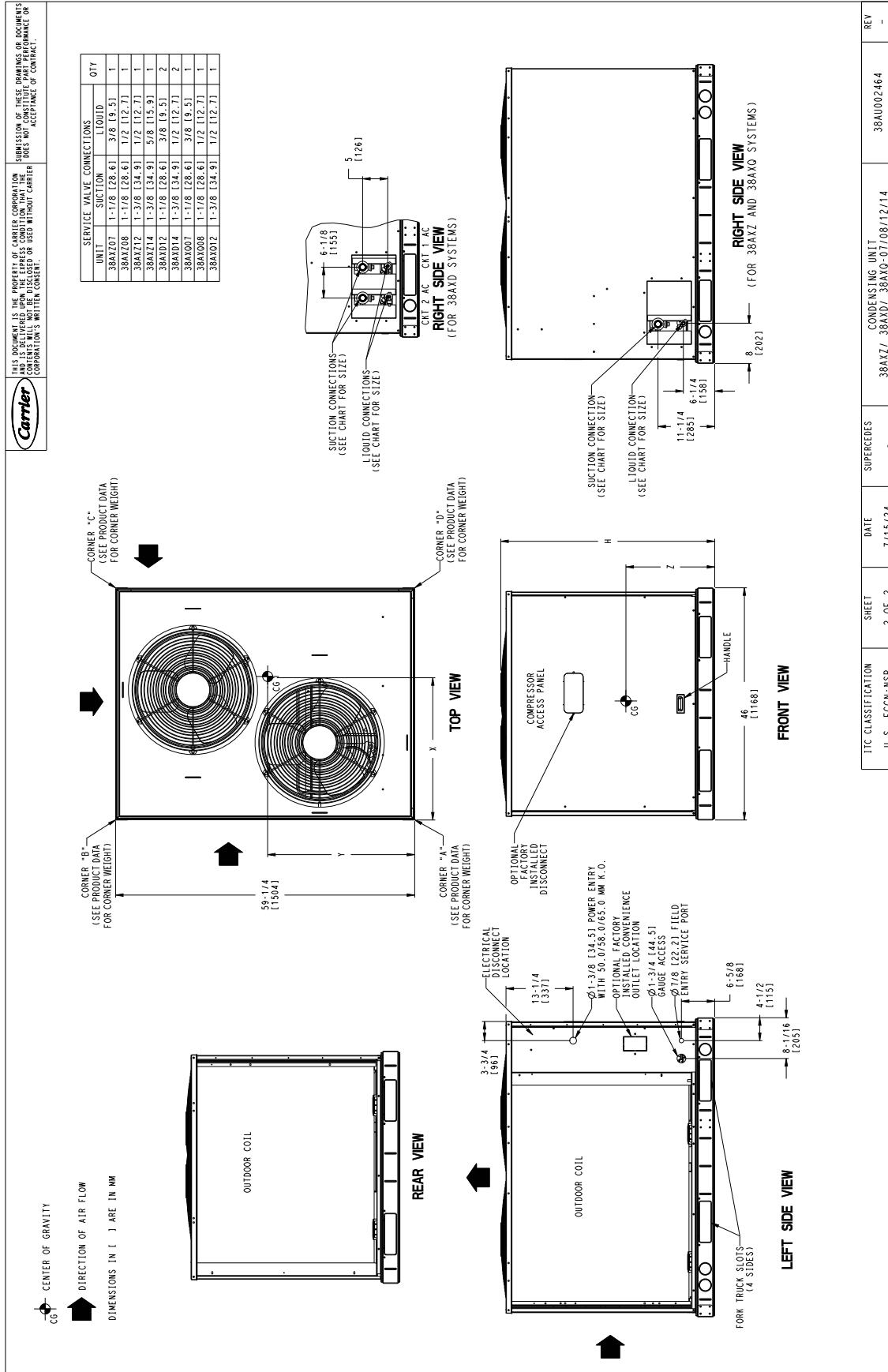
LEGEND

Option not recommended for this line size.

Base unit dimensions



38AXQ*07-12 Base Unit Dimensions



Carrier

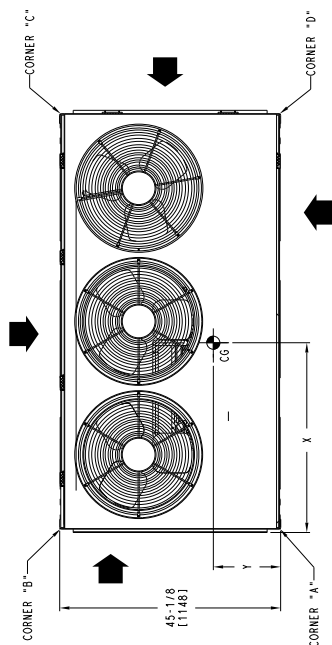
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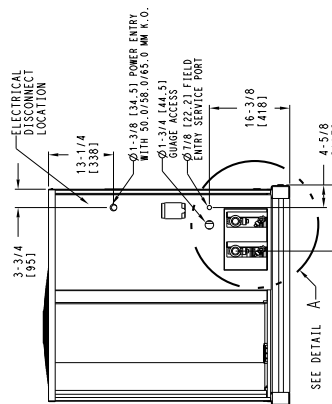
UNIT	ELECTRICAL CHARACTERISTICS				CENTER OF GRAVITY				UNIT HEIGHT H
	STD.	UNIT WT.	CORNER A	CORNER B	CORNER C	CORNER D	X	Y	
UBS.	NG.	NG.	NG.	NG.	NG.	NG.	NG.	NG.	NG.
208/230 - 3-60, 450 - 3-60, 575 - 3-60	332	237	107	172	78	135	61	186	84
38A716 (RPF)								38 (965)	17 (432)
208/230 - 3-60, 450 - 3-60, 575 - 3-60	332	237	107	172	78	135	61	186	84
38A016 (RPF)								38 (965)	17 (432)
208/230 - 3-60, 450 - 3-60, 575 - 3-60	768	348	236	107	183	83	153	69	186
38A016 (RPF)								39 (997)	20 (502)
208/230 - 3-60, 450 - 3-60, 575 - 3-60	768	348	236	107	183	83	153	69	186
38A016 (RPF)								39 (997)	20 (502)

[illegible]

SERVICE VALVE CONNECTIONS			QTY
UNIT	SUCTION	LIQUID	
38AX16	1-3/8 [34.9]	5/8 [15.9]	1 EA
38AXD16	1-3/8 [34.9]	1/2 [12.7]	2 EA
38AXO16	1-3/8 [34.9]	1/2 [12.7]	2 EA

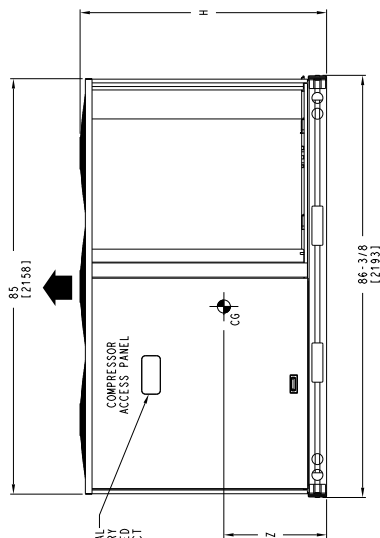


TOP VIEW

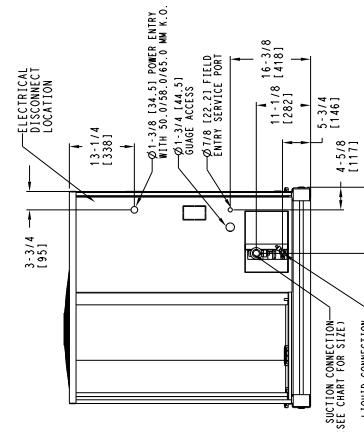


LEFT SIDE VIEW

LEFT SIDE VIEW
(FOR 38AXD/38AXQ SYSTEMS)

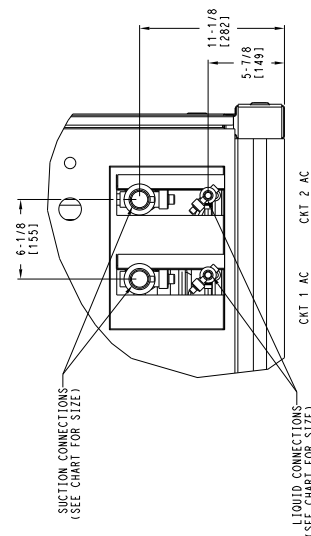


FRONT VIEW



LEFT SIDE VIEW

LEFT SIDE VIEW
(FOR 38AXZ SYSTEMS)



DETAIL A
(NOTE POSITION OF CKT1)

ITC CLASSIFICATION	SHEET	DATE	SUPERCEDS	REV
U. S. 5000 MOD	4 OF 4	7-15-10	38AZ7, 38AXD, 38AXQ	38AU002467

Base unit dimensions (cont)



38AXQ*25 Base Unit Dimensions

UNIT	ELECTRICAL CHARACTERISTICS				CENTER OF GRAVITY							UNIT HEIGHT H			
	STD. UNIT WT. LBS.	CORNER A LBS.	CORNER B LBS.	CORNER C LBS.	CORNER D LBS.	X	Y	Z							
38AX125 (T1PF)	208/230-3-60, 460-3-60, 575-3-60	978	444	360	163	188	85	147	67	283	128	38 (965)	23 (584)	17 (432)	50-3/8 (1280)
38AX125 (T1PF)	208/230-3-60, 460-3-60, 575-3-60	978	444	360	163	188	85	147	67	283	128	38 (965)	23 (584)	17 (432)	50-3/8 (1280)
38AX128 (T1PF)	208/230-3-60, 460-3-60, 575-3-60	1174	533	377	167	121	120	100	310	147	41	1104(1)	28 (711)	17 (432)	50-3/8 (1280)
38AX128 (T1PF)	208/230-3-60, 460-3-60, 575-3-60	983	446	354	161	197	89	155	70	278	126	38 (965)	24 (611)	17 (432)	50-3/8 (1280)

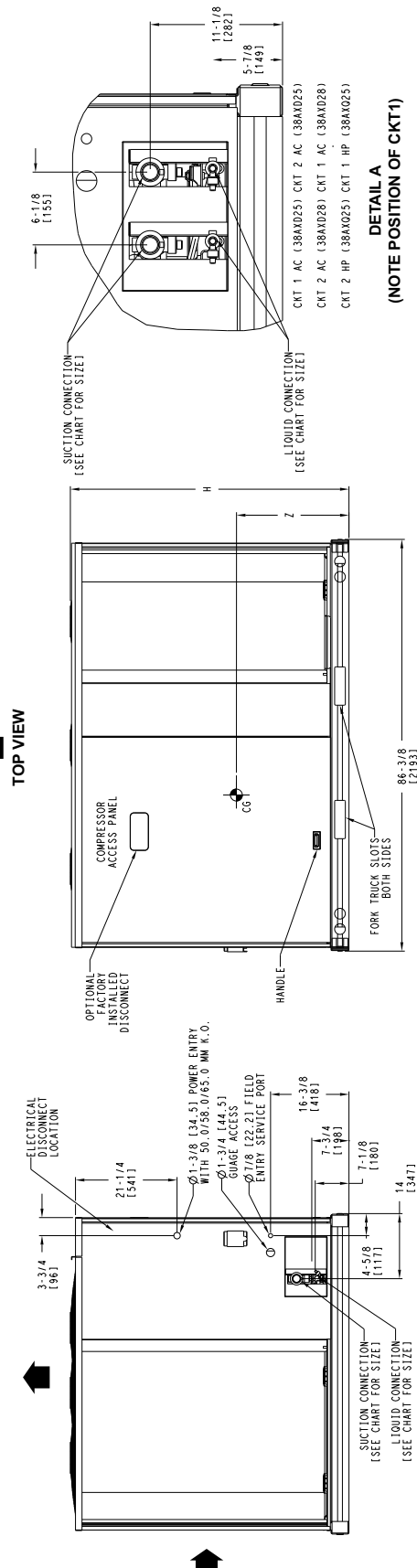
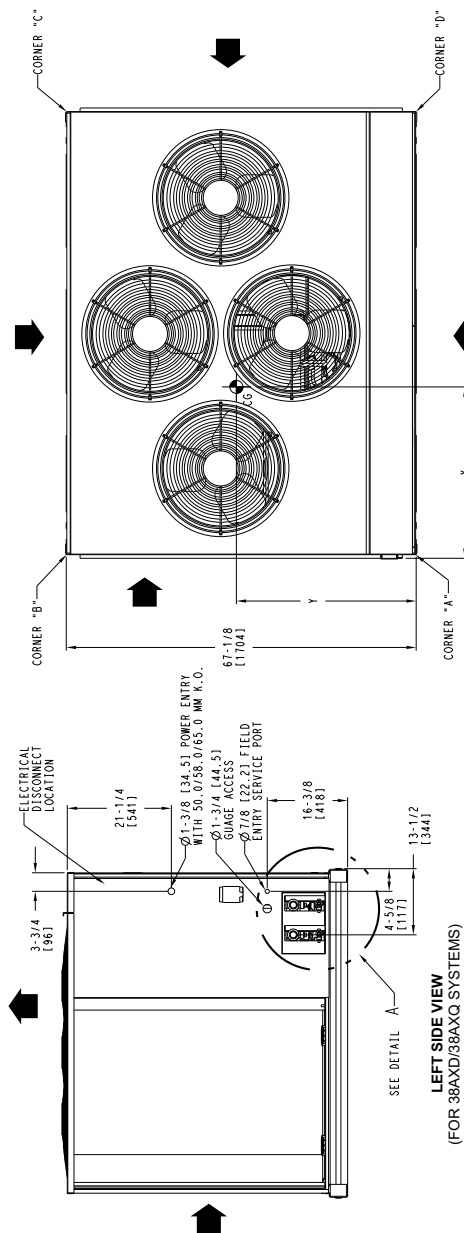
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NOTES:

1. MINIMUM CLEARANCE (LOCAL CODES OR JURISDICTION MAY PREVAIL):
 - A. BOTTOM TO COMBUSTIBLE SURFACES: 0 INCHES.
 - B. OUTDOOR COIL, FOR PROPER AIR FLOW: 36 INCHES.
 - C. OVERHEAD CLEARANCE: 6 INCHES TO THE SIDE GETTING THE COILS CLEARANCE IS OPTIONAL.
 - D. OVERHEAD: 60 INCHES TO ASSURE PROPER OUTDOOR FAN OPERATION.
 - E. BETWEEN UNITS: CONTROL BOX SIDE: 42 INCHES PER NEC.
 - F. BETWEEN UNITS AND UNGROUND SURFACES: CONTROL BOX SIDE: 42 INCHES PER NEC.
 - G. BETWEEN UNIT AND BLOCK OR CONCRETE WALLS AND OTHER GROUND SURFACES: CONTROL BOX SIDE: 42 INCHES PER NEC.
2. WITH EXCEPTION OF THE CLEARANCE FOR THE OUTDOOR COIL AS STATED IN NOTE 1B, A REMOVABLE FENCE
3. UNITS MUST BE INSTALLED ON COMBUSTIBLE FLOORS MADE OF WOOD OR CLASS A, B OR C ROOF COVERING MATERIAL.

SERVICE VALVE CONNECTIONS			QTY
UNIT	SUCTION	LIQUID	
38AXZ25	1-5/8 [41.3]	5/8 [15.9]	1 EA
38AXD25	1-3/8 [34.9]	1/2 [12.7]	2 EA
38AXD28	1-3/8 [34.9]	1/2 [12.7]	2 EA
38AXD25	1-3/8 [34.9]	1/2 [12.7]	2 EA



DETAIL A
(NOTE POSITION OF CKT1)

FRONT VIEW

LEFT SIDE VIEW
(FOR 38AXZ SYSTEMS)

DATE	SUPERCEDES	
	38AXZ, 38AYD, 38AXO, 25/28 CONDENSING UNIT	38AU002470



38AXQ*28 Base Unit Dimensions

UNIT	ELECTRICAL CHARACTERISTICS	STD. UNIT WT.		CORNER A		CORNER B		CORNER C		CORNER D		CENTER OF GRAVITY		UNIT HEIGHT	
		LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	X	Y	Z	H
38AXQ1T.U128	208/230-3-60, 460-3-60, 575-3-60	1332	613	438	199	311	141	250	113	352	160	38-1/2 (978)	27-8/9 (709)	23 (584)	53-1/2 (1359)

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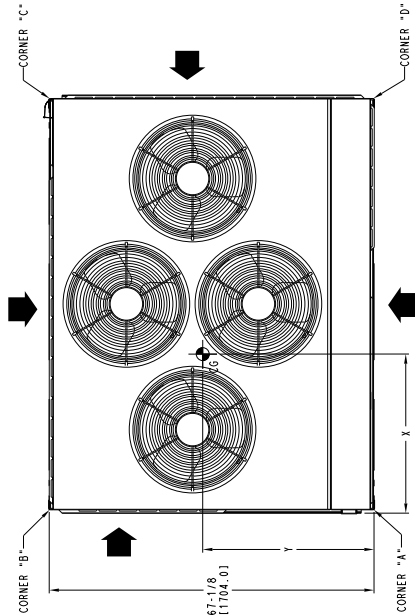
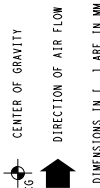
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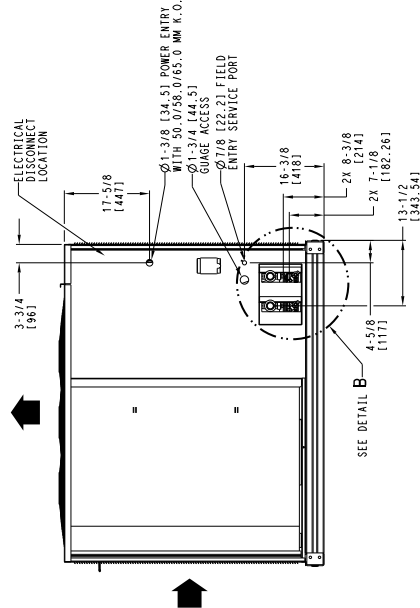
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- NOTES:
1. MINIMUM CLEARANCE (LOCAL CODES OR JURISDICTION MAY PREVAIL):
 - A. BOTTOM TO COMBUSTIBLE SURFACES: 0 INCHES.
 - B. OUTDOOR COIL - FOR PROPER AIR FLOW: 36 INCHES CLEARANCE REFRIGERANT PIPING, THE SIDE GETTING THE GREATER CLEARANCE OF 60 INCHES.
 - C. OVERHEAD: 60 INCHES, TO ASSURE PROPER OUTDOOR FAN OPERATION.
 - D. BETWEEN UNITS: CONTROL BOX SIDE, 42 INCHES PER REC. SIDE, 36 INCHES PER REFRIG. SIDE.
 - E. BETWEEN UNIT AND BLOCK OR CONCRETE WALLS AND OTHER GROUNDED SURFACES: CONTROL BOX SIDE, 42 INCHES PER REC. COIL AS STATED IN NOTE 1B, A REMOVABLE FENCE OR BARRICADE REQUIRES NO CLEARANCE.
 - F. UNITS MAY BE INSTALLED ON COMBUSTIBLE FLOORS MADE FROM WOOD OR CLASS A, B OR C ROOF COVERING MATERIAL.
 - 2.
 - 3.

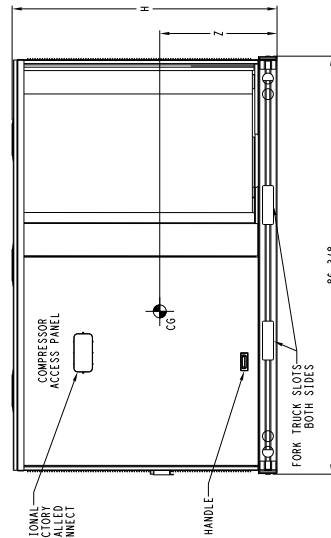
SERVICE VALVE CONNECTIONS		LIQUID	OIL
UNIT	SUCTION		
38AXQ1T.U128	1-3/8 [134.93]	1/2 [12.7]	2 EA.



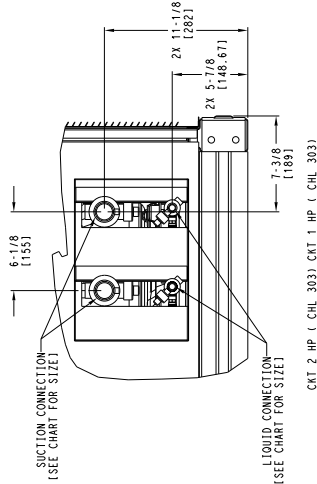
TOP VIEW



LEFT SIDE VIEW



FRONT VIEW



DETAIL B
(NOTE POSITION OF CK1)

ITC CLASSIFICATION	SHEET	DATE	SUPERCEDES	38AXQ 28 CONDENSING UNIT	REV
U.S. ECCN:MSR	1 OF 1	02/16/26	-	38AU002501	-

Base unit dimensions (cont)



38AXQ*07-28 Corner Weights^a

38AXQ UNIT	STD. UNIT WT.		CORNER A		CORNER B		CORNER C		CORNER D		CENTER OF GRAVITY in. (mm)			UNIT HEIGHT in. (mm)
	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	X	Y	Z	
*07	444	201	134	61	97	44	90	41	123	56	22 (559)	25 (635)	13 (330)	42-3/8 (1076)
*08	523	237	174	79	118	54	96	44	135	61	21 (533)	24 (610)	23 (584)	50-3/8 (1280)
*12	575	261	186	84	126	57	106	48	157	71	21 (533)	24 (610)	23 (584)	50-3/8 (1280)
*16	768	348	236	107	183	83	153	69	196	89	39 (997)	20 (502)	23 (584)	50-3/8 (1280)
*25	983	446	354	161	197	89	155	70	278	126	38 (965)	24 (610)	23 (584)	50-3/8 (1280)
*28	1352	613	438	199	311	141	250	113	352	160	38-1/2 (978)	27-8/9 (709)	23 (584)	53-1/2 (1359)

NOTE(S):

a. See Base Unit Dimensions on pages 11-14 for corner locations.

38AXQ, 40RLQ options and accessories



38AXQ

38AXQ ITEMS	OPTION ^a	ACCESSORY ^b
Convenience Outlet (115-v) Powered	X	
Convenience Outlet Non-powered	X	
Outdoor Coil Coatings	X	
Louvered Hail Guard	X	X
Low Ambient Temperature Control	X	X
Non-Fused Disconnect Switch ^c	X	
Programmable Thermostats		X

NOTE(S):

- a. Factory-installed option.
- b. Field-installed accessory.
- c. Not available when unit MOCP electrical rating exceeds 80 amps.

Factory-installed options

115-v convenience outlet (powered, non-powered)

A powered convenience outlet is available to provide power to electric drills, lights, and refrigerant recovery machines. This means that a separate 115-v power supply is no longer required.

Non-powered convenience outlet requires the field installation of a general purpose 125-volt 15-A circuit powered from a source elsewhere in the building.

Outdoor coil coatings

Outdoor coil coating options are available to match coil protection to site conditions for optimum durability. Refer to the Outdoor Coil Coating Applications table below for selection guidance. Consult a Carrier representative for further information.

Outdoor Coil Coating Applications

DESCRIPTION	ENVIRONMENT					
	STANDARD NON-CORROSIVE	MILD COASTAL	MODERATE COASTAL	SEVERE COASTAL	INDUSTRIAL	COMBINED COASTAL AND INDUSTRIAL
Alum Fin / Cu Tube	X					
Pre-Coated Al / Cu		X				
E-Coated Al / Cu		X	X	X	X	X
Cu / Cu			X	X		

Outdoor coil louvered hail guard

The outdoor coil louvered hail guard protects outdoor units from hail and other flying debris.

Low ambient temperature head pressure control

The head pressure control operates in Cooling mode at outdoor temperatures below 35°F (2°C). The low ambient control varies the speed of outdoor-fan motors to maintain correct condensing temperature down to -20°F (-29°C).

Non-fused disconnect switch

The non-fused disconnect switch removes power locally at the condensing unit. This switch also includes a power lockout capability to protect the service person. This lock-out switch saves time and effort as the service person no longer needs to access a distant disconnect switch while servicing the unit.

Field-installed accessories

Outdoor coil louvered hail guard

The outdoor coil louvered hail guard protects outdoor units from hail and other flying debris.

Low ambient temperature head pressure control

The head pressure control operates in Cooling mode at outdoor temperatures below 35°F (2°C). The low ambient control varies the speed of outdoor-fan motors to maintain correct condensing temperature down to -20°F (-29°C).

Carrier commercial thermostats

Our commercial thermostats provide 7-day programmable capability for commercial applications.

40RLQ

40RLQ ITEMS	OPTION ^a	ACCESSORY ^b
Alternate Fan Motors	X	
Alternate Drive	X	
CO ₂ Sensors		X
Condensate Drain Trap		X
Discharge Duct Adapter (40RLQ 07-12 only)		X
Discharge Plenum		X
Economizer		X
Electric Heater		X
Hot Water Heating Coils		X
Optional Display Kit for Staged Air Volume (SAV) with VFD (40RLQ 16-28 only)		X
Overhead Suspension Package		X
Pre-Painted Units	X	
Programmable Thermostats		X
Return Air Grille		X
Steam Heating Coil (1 row)		X

NOTE(S):

- a. Factory-installed option.
- b. Field-installed accessory.

Factory-installed options

Alternate fan motors and drives

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

Pre-painted steel units

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

Field-installed accessories

Optional VFD display kit (40RLQ16-28 only)

There is an optional VFD display kit offered (as an accessory) to allow the user to troubleshoot any VFD faults in the field after startup.

NOTE: Do not use the VFD display kit to adjust the frequency and voltage in the VFD to required performance requirements. This could lead to decreased life of the motor and VFD.

CO₂ sensors

CO₂ 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 CO₂ 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.

Condensate drain trap

The 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.

Discharge plenum

The discharge plenum directs the air discharge directly into the occupied space; integral horizontal and vertical louvers enable redirection of airflow. This accessory is available unpainted or painted. Field assembly is required (only applicable for vertical application).

Economizer (enthalpy controlled)

The enthalpy controlled Economizer provides ventilation air and “free” cooling if outside ambient temperature and humidity are suitable. It can also be used with CO₂ sensors to help meet indoor air quality requirements.

Electric heater

Electric heaters are available as factory-supplied and field-installed accessories for nominal 240v, 480v, and 575v, 3-phase, 60 Hz units. Electric heaters are UL and CSA agency-approved. They have single-point power wiring. The heater assembly includes contactors with 24-v coils, power wiring, 24- v control wiring terminal blocks, and a hinged access panel. Electric heaters should not be used with an air discharge plenum.

Two-row hot water coils

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

Overhead suspension package

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

Return-air grille

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

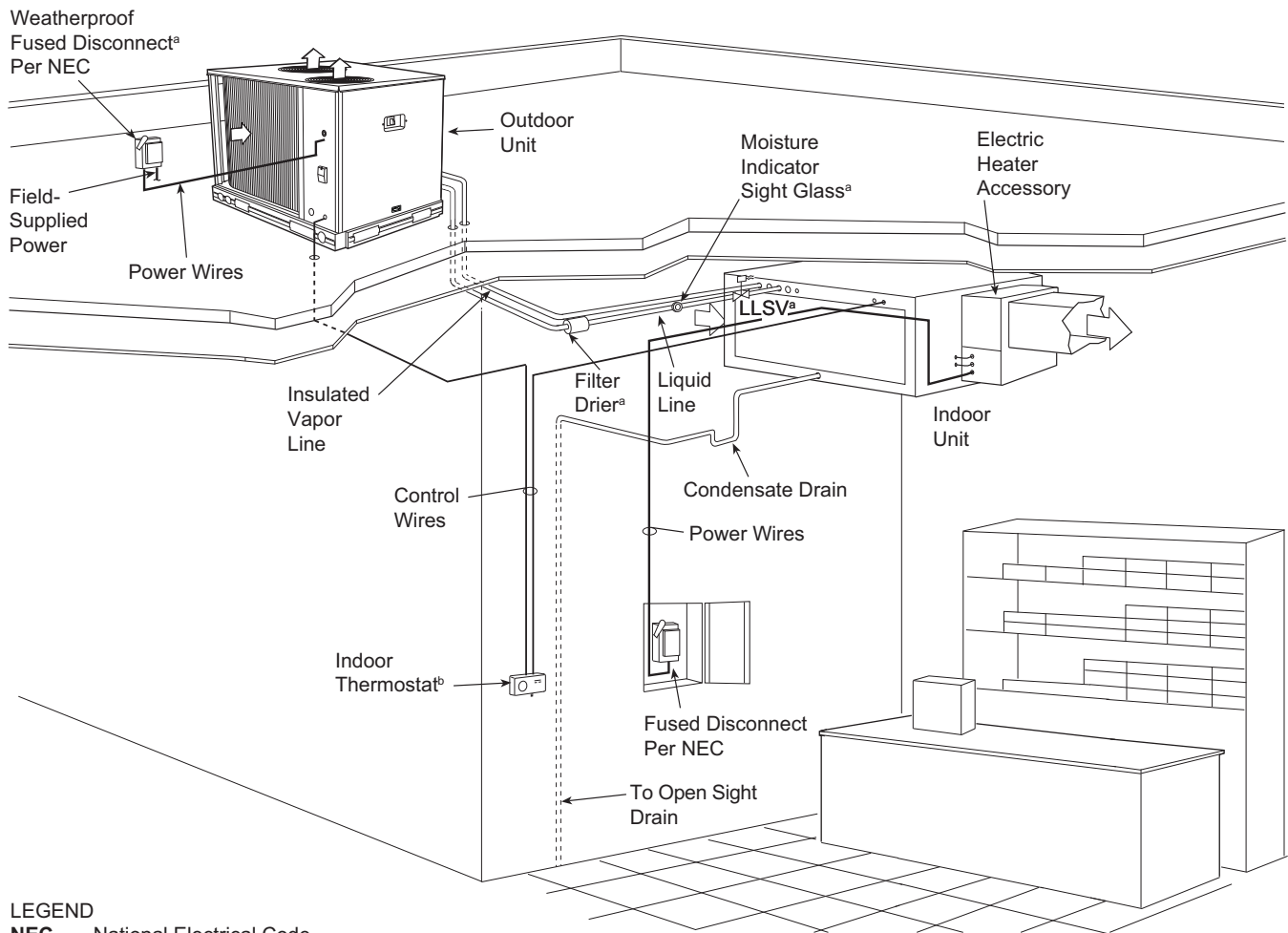
One-row steam coil

The 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 20 psi (138 kPag) at 260°F (126°C). The IDT steam coils are especially suited to applications where sub-freezing air enters the unit.

Discharge duct adapter (Sizes 07-12)

This accessory is required for replacements using 40RLQ units with or without electric heat. It is not required for new installations for when using steam coil, hot water coil, or discharge plenum accessories.

Horizontal Installation



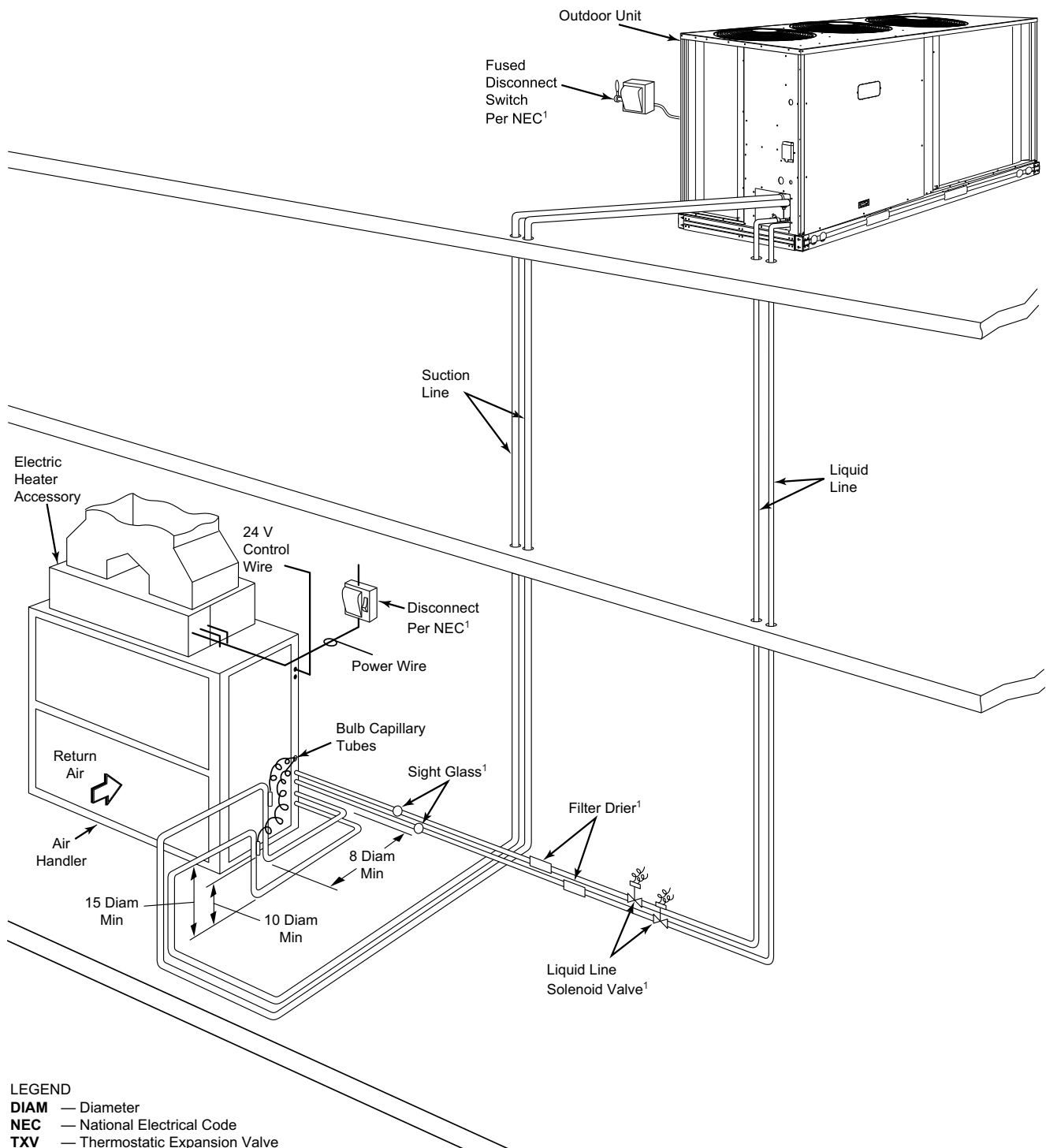
LEGEND

NEC — National Electrical Code
TXV — Thermostatic Expansion Valve
LLSV — Liquid Line Solenoid Valve

NOTE(S):

- Field-supplied.
- Double riser may be required. Consult condensing unit product data catalog for details.
- All piping must follow standard refrigerant piping techniques. Refer to Carrier System Design Manual for details.
- All wiring must comply with the applicable local and national codes.
- 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.
- Liquid line solenoid valve (solenoid drop control) is recommended to prevent refrigerant migration to the compressor.
- Internal factory-supplied TXVs not shown.

Vertical Installation



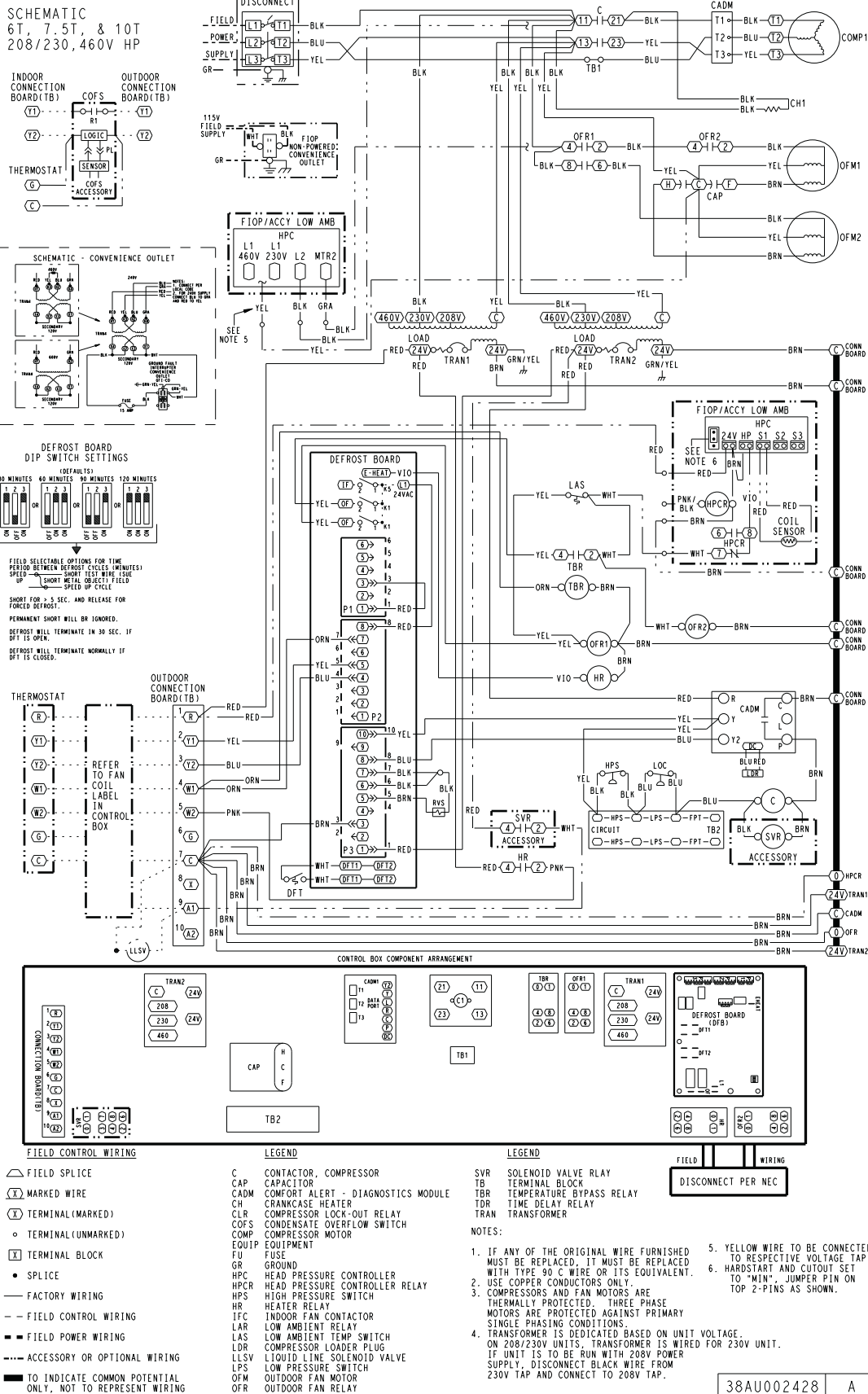
LEGEND

DIAM — Diameter
NEC — National Electrical Code
TXV — Thermostatic Expansion Valve

NOTE(S):

1. Field-supplied.
2. All piping must follow standard refrigerant piping techniques. Refer to Carrier System Design Manual for details.
3. All wiring must comply with the applicable local and national codes.
4. 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.
5. Filter driers must be bi-flow type suited for heat pump duty.
6. Liquid line solenoid valve (solenoid drop control) is recommended to prevent refrigerant migration to the compressor on line links above 75 ft.
7. Internal factory-supplied TXVs and check valves not shown.

38AXQ*07-12 Wiring Diagram (208/230-3-60, 460-3-60 shown)



SCHEMATIC
6T, 7.5T, & 10T
575V HP

INDOOR CONNECTION BOARD (TB)

OUTDOOR CONNECTION BOARD (TB)

LOGIC

SENSOR

COFS

ACCESSORY

DEFROST BOARD

DIP SWITCH SETTINGS

FIELD SELECTABLE OPTIONS FOR TIME PERIOD BETWEEN DEFROST CYCLES (MINUTES):

SHORT METAL OBJECT: FIELD UP

SHORT FOR > 5 SEC. AND RELEASE FOR FORCED DEFROST.

PERMANENT SHORT WILL BE IGNORED.

DEFROST WILL TERMINATE IN 30 SEC. IF DFT IS OPEN.

DEFROST WILL TERMINATE NORMALLY IF DFT IS CLOSED.

DEFROST BOARD

OUTDOOR CONNECTION BOARD (TB)

REFER TO FAN COIL LABEL IN CONTROL BOX

FIELD CONTROL WIRING

LEGEND

FIELD

WIRING

DISCONNECT PER NEC

NOTES:

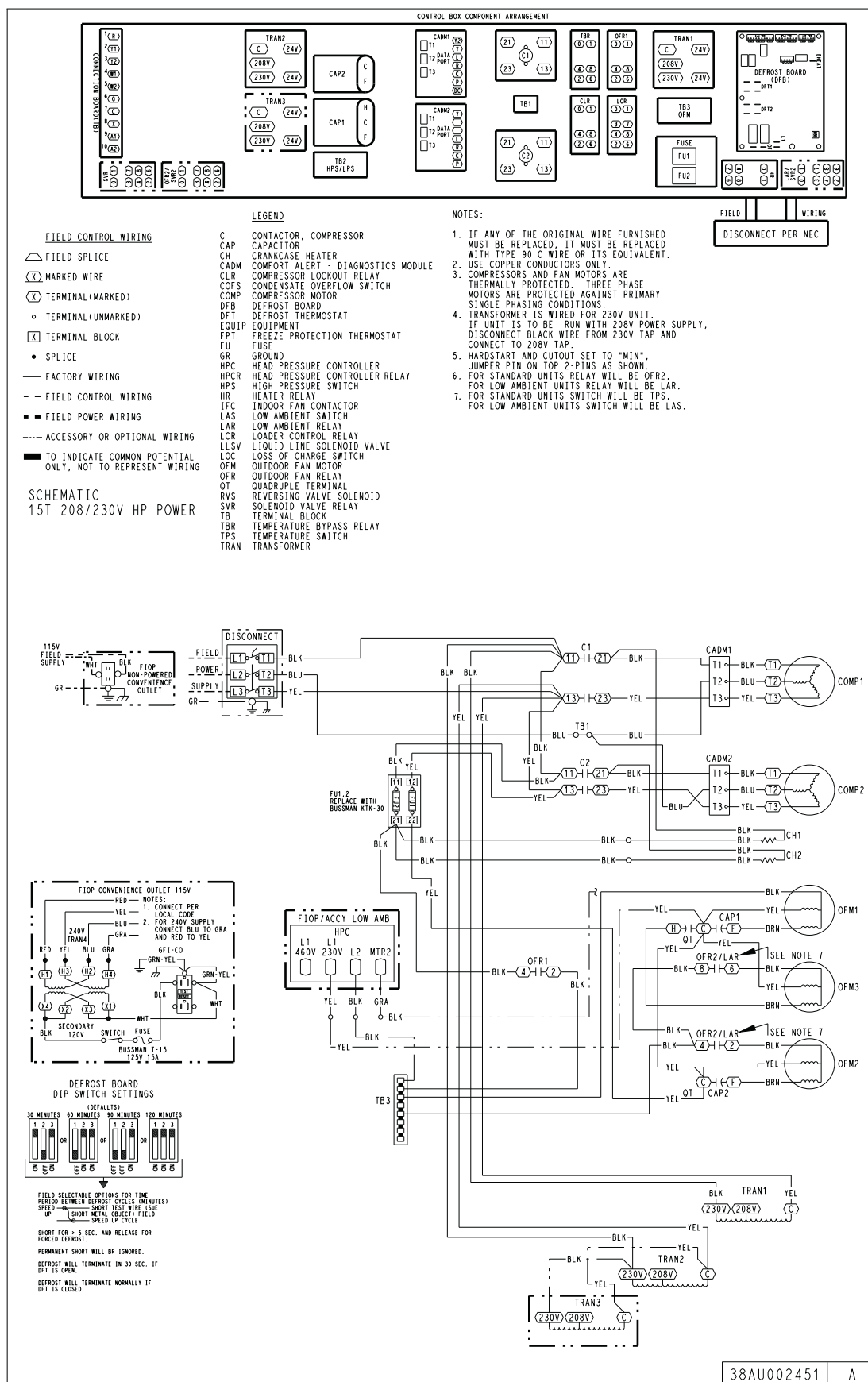
- IF ANY OF THE ORIGINAL WIRE FURNISHED MUST BE REPLACED, IT MUST BE REPLACED WITH TYPE 90 C WIRE OR ITS EQUIVALENT.
- USE COPPER CONDUCTORS ONLY.
- COMPRESSORS AND FAN MOTORS ARE THERMALLY PROTECTED. THREE PHASE MOTORS ARE PROTECTED AGAINST PRIMARY SINGLE PHASING CONDITIONS.
- TRANSFORMER IS WIRED FOR 575V UNIT.
- HARDSTART AND CUTOFF SET TO "MIN". JUMPER PIN ON TOP 2-PINS AS SHOWN.
- REMOVE YEL WIRE BETWEEN CAP AND COMPRESSOR CONTACTOR WHEN TRANSFORMER AND HEAD PRESSURE CONTROLS ARE INSTALLED.

38AU002427

Typical piping and wiring diagrams (cont)

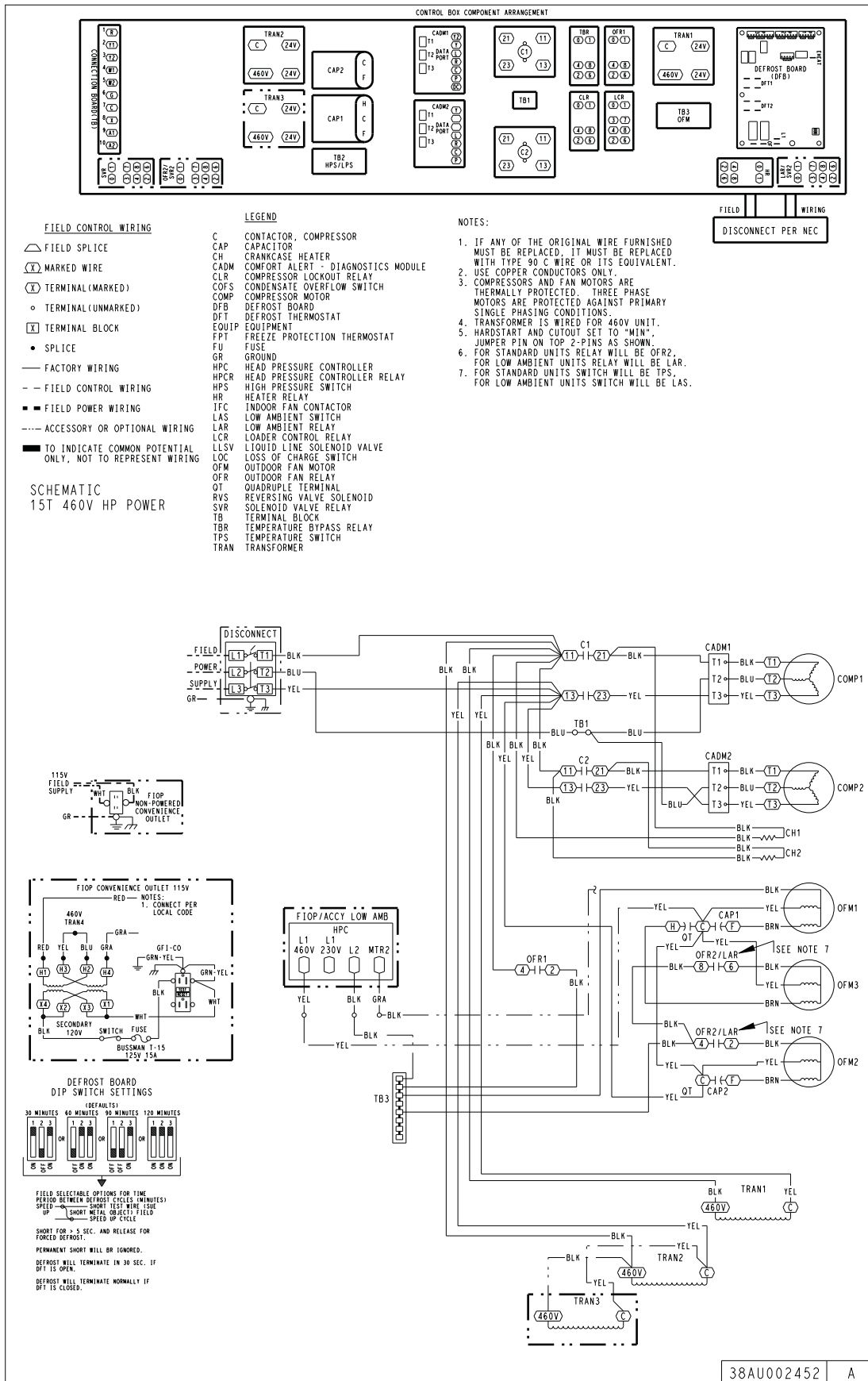


38AXQ*16 Power Schematic (208/230-3-60 shown)



38AU002451 A

38AXQ*16 Power Schematic (460-3-60 shown)



38AU002452 A

CONTROL BOX COMPONENT ARRANGEMENT

FIELD CONTROL WIRING

- △ FIELD SPICE
- (X) MARKED WIRE
- (X) TERMINAL (MARKED)
- TERMINAL (UNMARKED)
- (X) TERMINAL BLOCK
- SPLICE
- FACTORY WIRING
- - - FIELD CONTROL WIRING
- FIELD POWER WIRING
- ACCESSORY OR OPTIONAL WIRING
- TO INDICATE COMMON POTENTIAL ONLY, NOT TO REPRESENT WIRING

LEGEND

C CONTACTOR, COMPRESSOR
 CAP CAPACITOR
 CH CRANKCASE HEATER
 CADM COMFORT ALERT - DIAGNOSTICS MODULE
 CLR COMPRESSOR LOCKOUT RELAY
 COFS CONDENSATE OVERFLOW SWITCH
 COMP COMPRESSOR MOTOR
 DFB DEFROST BOARD
 DFT DEFROST THERMOSTAT
 EQUIP EQUIPMENT
 FPT FREEZE PROTECTION THERMOSTAT
 FU FUSE
 GR GROUND
 HPC HEAD PRESSURE CONTROLLER
 HPCR HEAD PRESSURE CONTROLLER RELAY
 HPS HIGH PRESSURE SWITCH
 HR HEATER RELAY
 IFC INDOOR FAN CONTACTOR
 LAS LOW AMBIENT SWITCH
 LAR LOW AMBIENT RELAY
 LCR LOADER CONTROL RELAY
 LLSV LIQUID LINE SOLENOID VALVE
 LOC LOSS OF CHARGE SWITCH
 OFM OUTDOOR FAN MOTOR
 OFR OUTDOOR FAN RELAY
 OT QUADRUPEL TERMINAL
 RVS REVERSING VALVE SOLENOID
 SVR SOLENOID VALVE RELAY
 TB TERMINAL BLOCK
 TBR TEMPERATURE BYPASS RELAY
 TPS TEMPERATURE SWITCH
 TRAN TRANSFORMER

NOTES:

- IF ANY OF THE ORIGINAL WIRE FURNISHED MUST BE REPLACED. IT MUST BE REPLACED WITH TYPE 90 C WIRE OR ITS EQUIVALENT.
- USE COPPER CONDUCTORS ONLY.
- COMPRESSORS AND FAN MOTORS ARE THERMALLY PROTECTED. THREE PHASE MOTORS ARE PROTECTED AGAINST PRIMARY SINGLE PHASING CONDITIONS.
- TRANSFORMER IS WIRED FOR 575V UNIT.
- REMOVE YELLOW WIRE BETWEEN CAP1 AND CAP2 WHEN 575V TRANSFORMER AND HEAD PRESSURE CONTROLLER ARE INSTALLED.
- HARDSTART AND CUTOFF SET TO "MIN". JUMPER PIN ON TOP 2-PINS AS SHOWN.
- FOR STANDARD UNITS RELAY WILL BE OFR2. FOR LOW AMBIENT UNITS RELAY WILL BE LAR.
- FOR STANDARD UNITS SWITCH WILL BE TPS. FOR LOW AMBIENT UNITS SWITCH WILL BE LAS.

SCHEMATIC
 15T 575V HP POWER

DEFROST BOARD DIP SWITCH SETTINGS

(DEFAULTS)

30 MINUTES	60 MINUTES	90 MINUTES	120 MINUTES
1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6

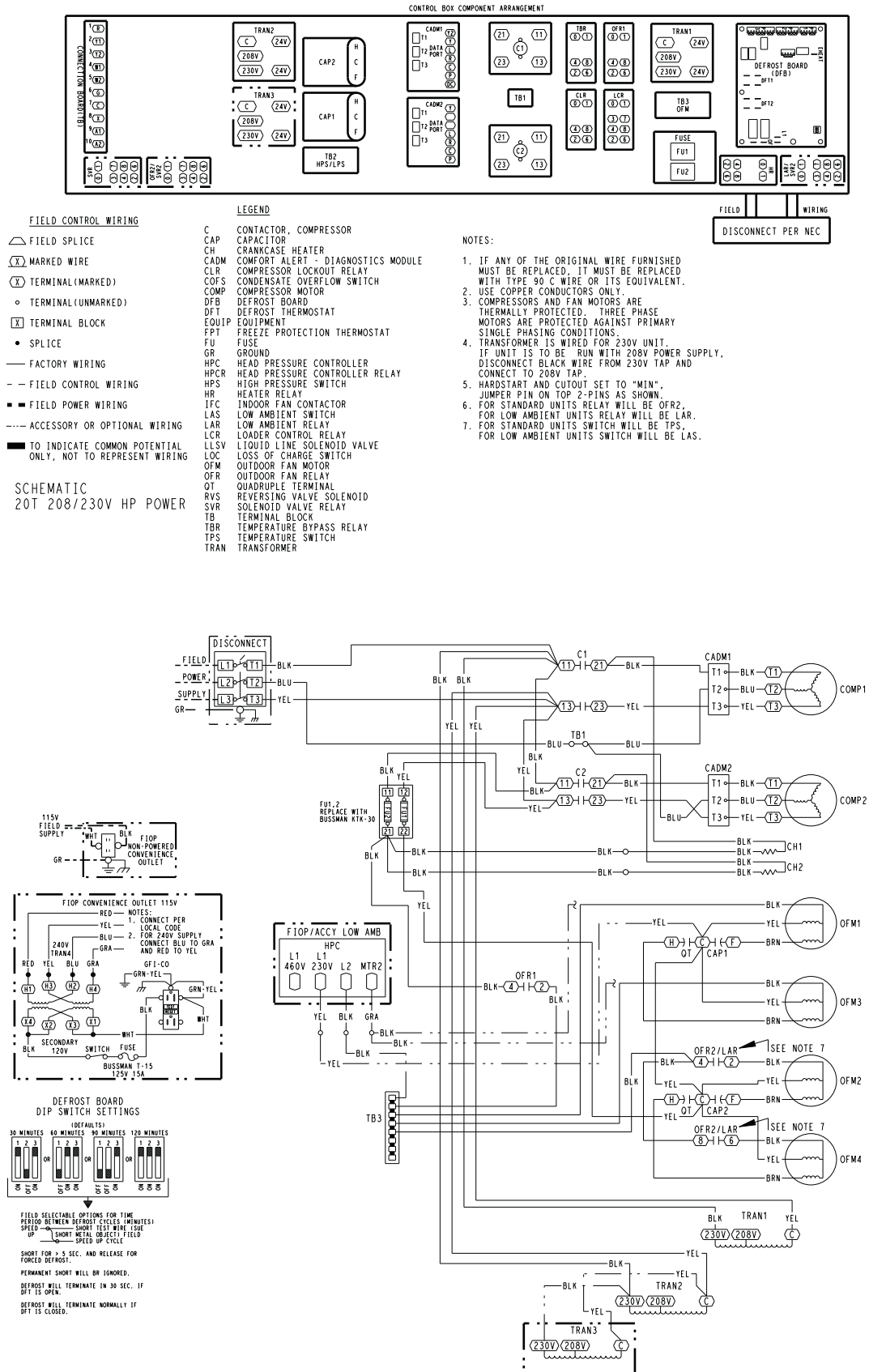
FIELD SELECTABLE OPTIONS FOR TIME PERIOD BETWEEN DEFROST CYCLES (MINUTES):
 SPEED UP — SHORT TEST WIRE (USE UP) — SHORT METAL OBJECT FIELD SPEED UP CYCLE

SHORT FOR > 5 SEC. AND RELEASE FOR FORCED DEFROST.
 PERMANENT SHORT WILL BE IGNORED.
 DEFROST WILL TERMINATE IN 30 SEC. IF DFT IS OPEN.
 DEFROST WILL TERMINATE NORMALLY IF DFT IS CLOSED.

Typical piping and wiring diagrams (cont)

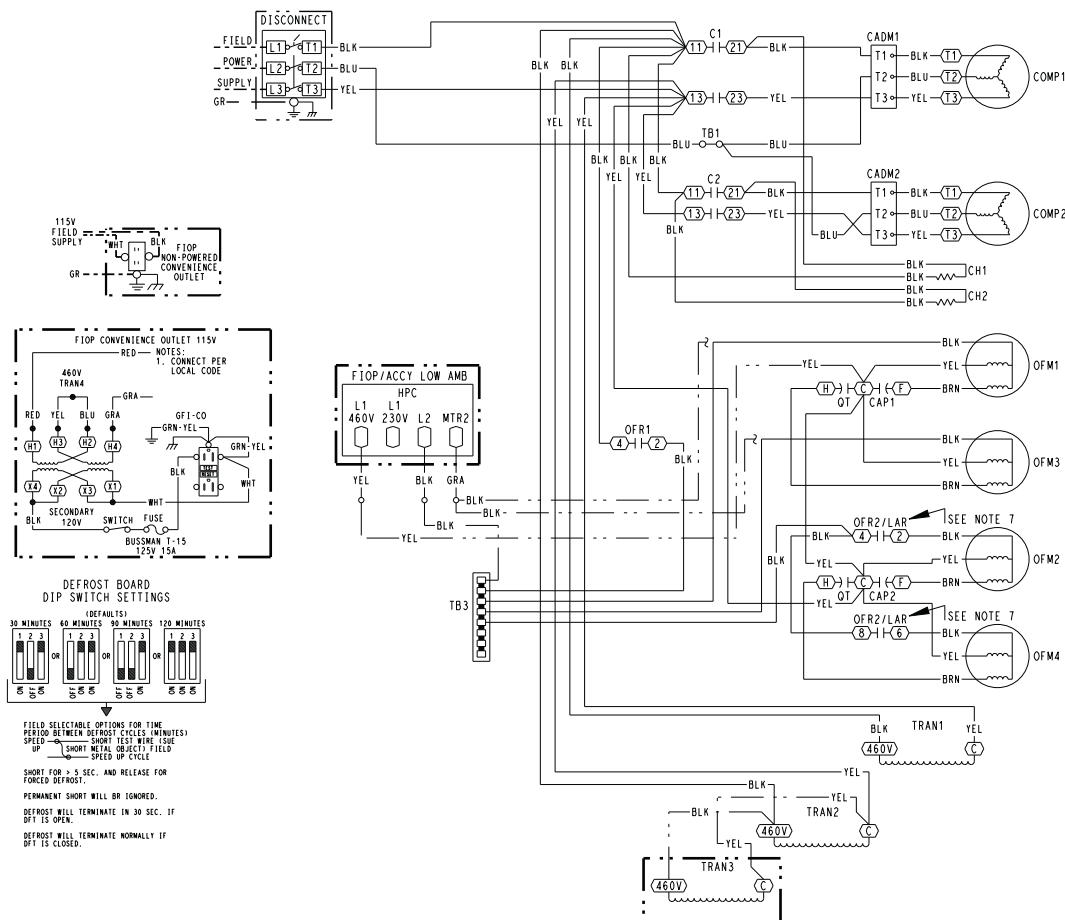
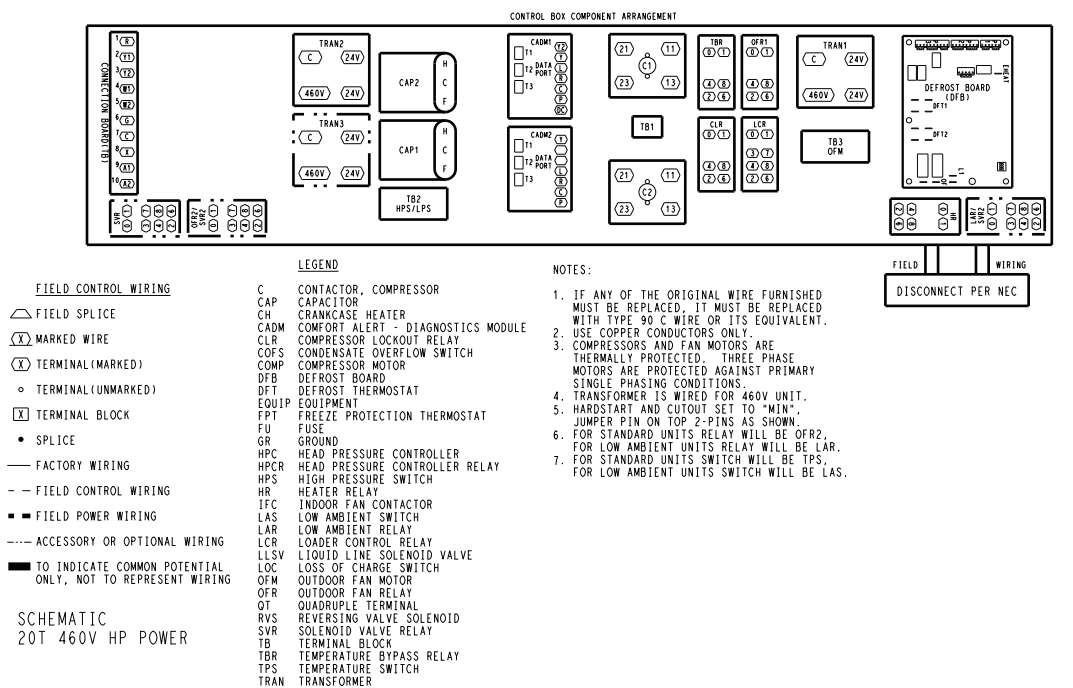
Carrier

38AXQ*25 Power Schematic (208/230-3-60 shown)



38AU002454 A

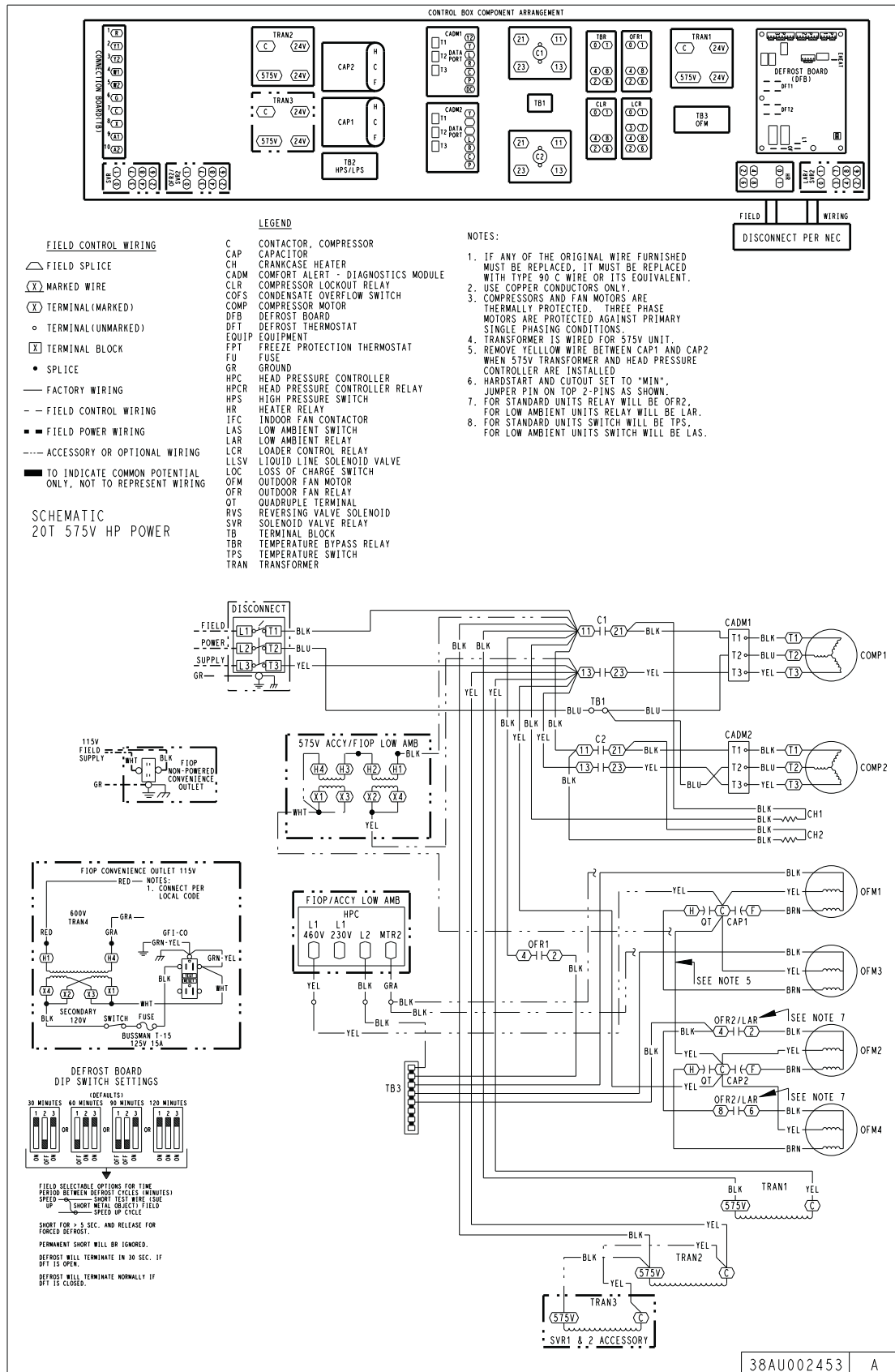
38AXQ*25 Power Schematic (460-3-60 shown)



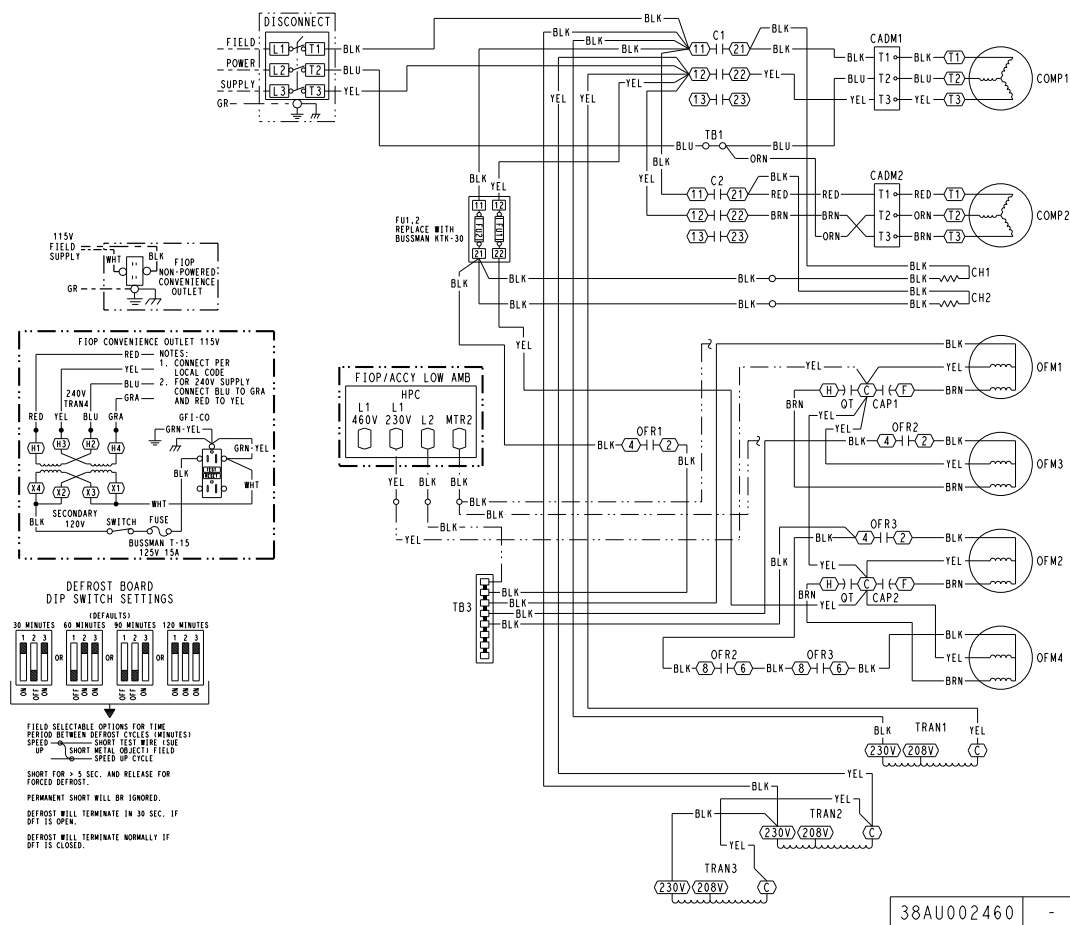
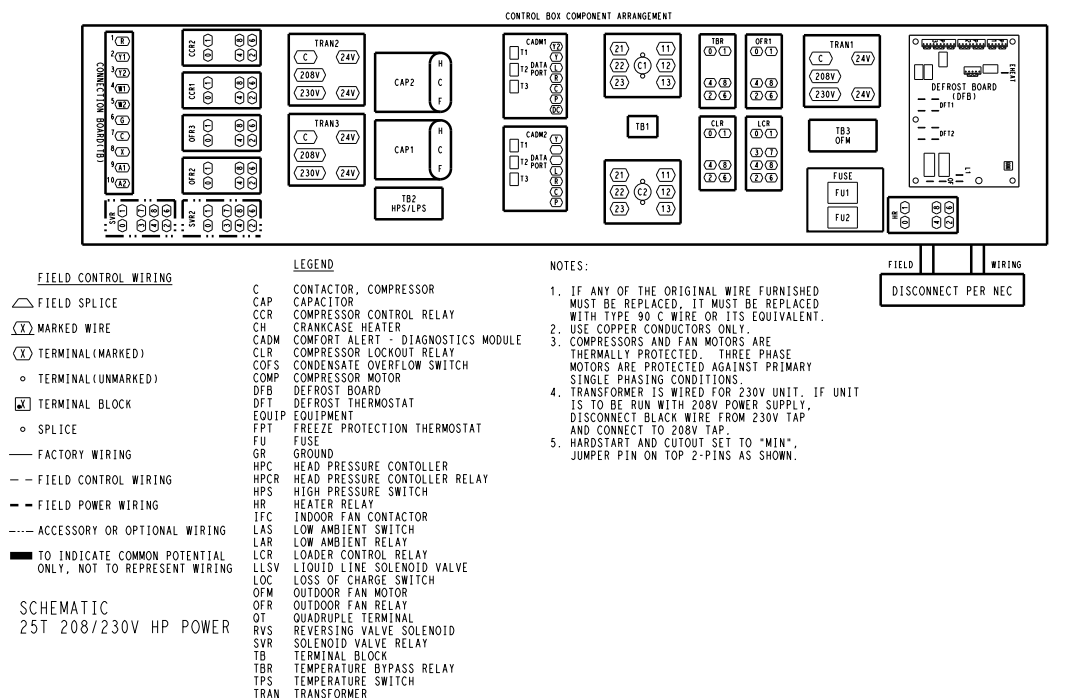
Typical piping and wiring diagrams (cont)

Carrier

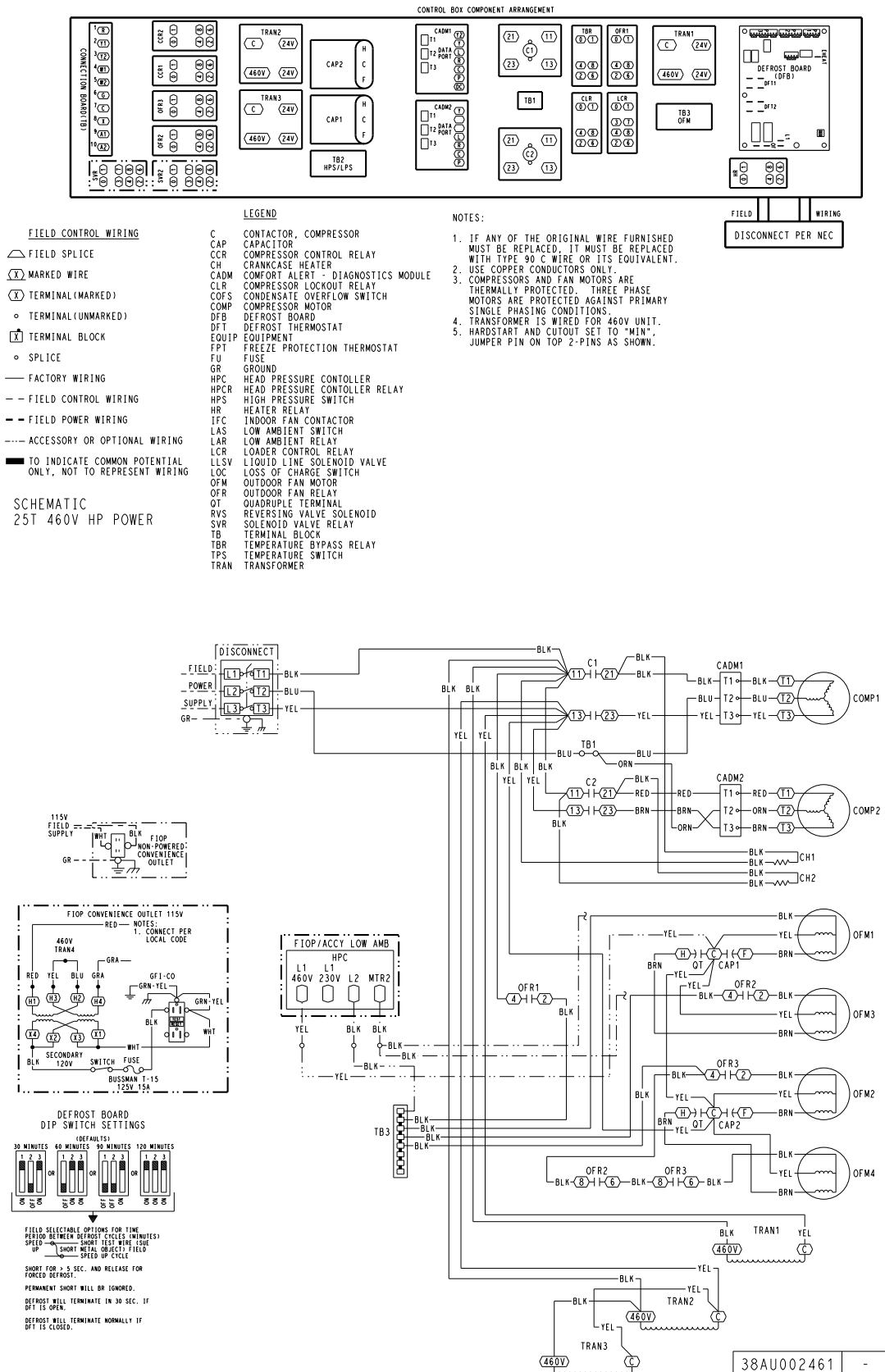
38AXQ*25 Power Schematic (575-3-60 shown)



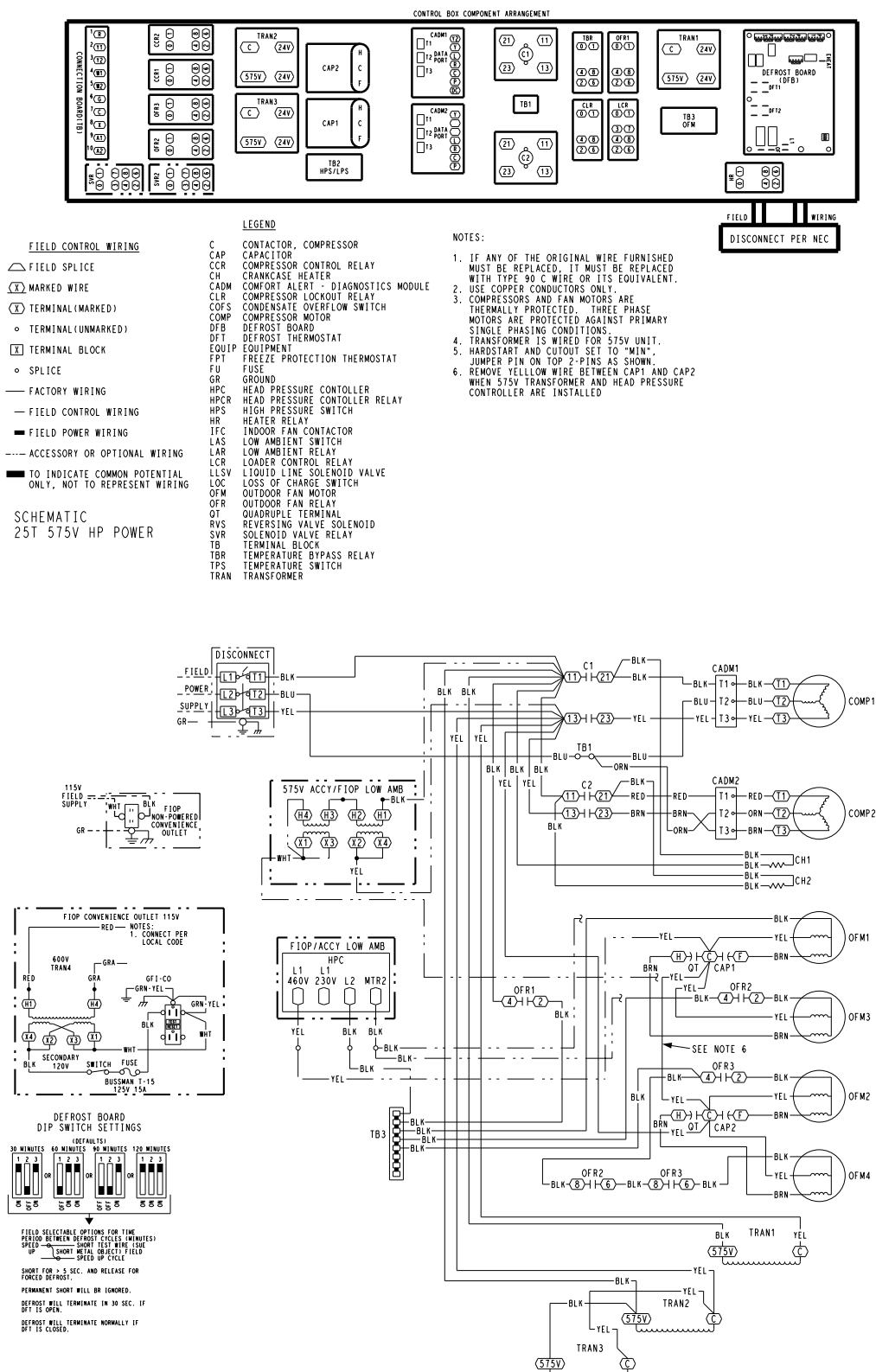
38AXQ*28 Power Schematic (208/230-3-60 Shown)



38AXQ*28 Power Schematic (460-3-60 Shown)



38AXQ*28 Power Schematic (575-3-60 Shown)

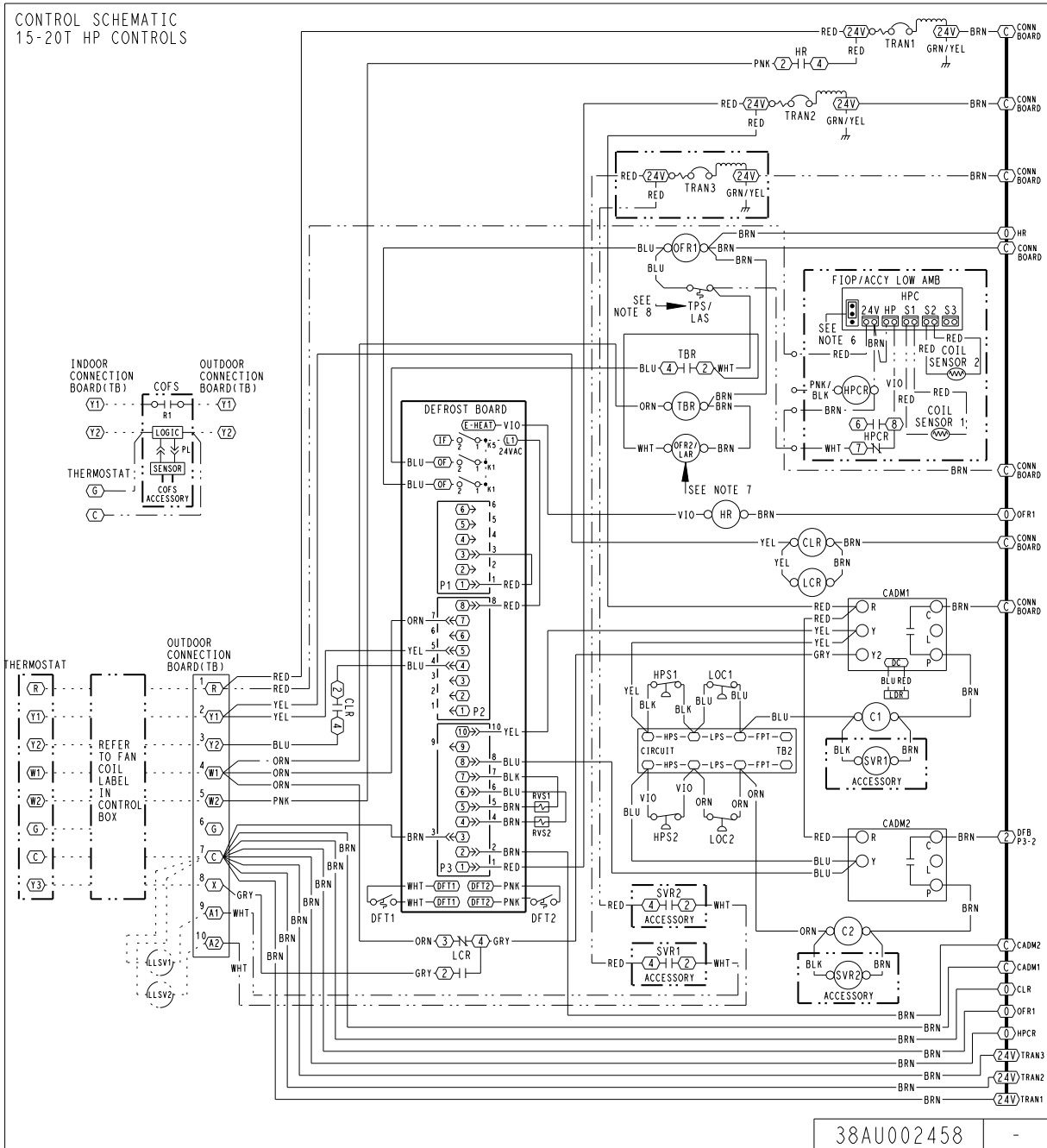


38AU002459

Typical piping and wiring diagrams (cont)



38AXQ*16-25 Control Schematic

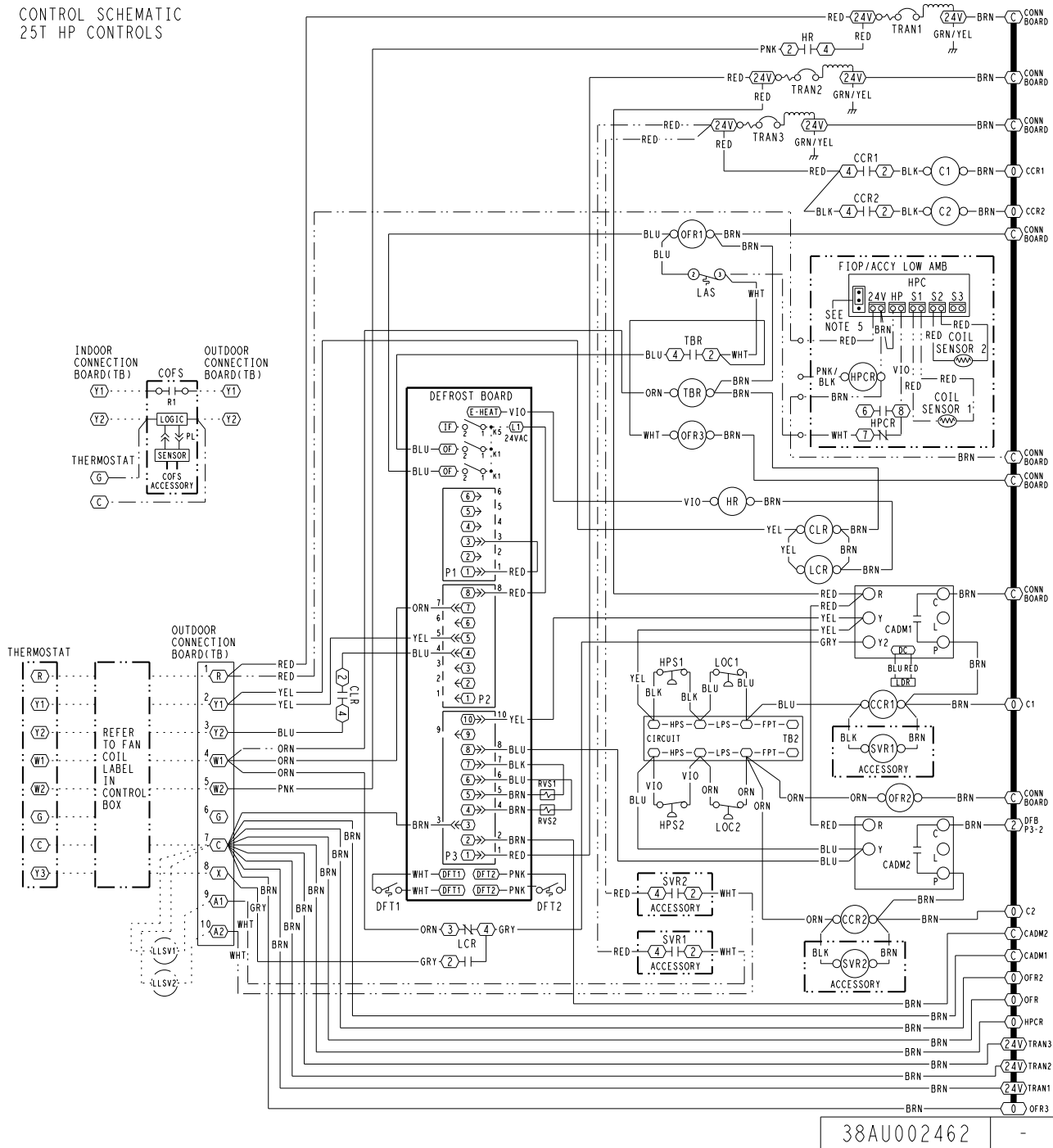


Typical piping and wiring diagrams (cont)



38AXQ*28 Control Schematic

CONTROL SCHEMATIC
25T HP CONTROLS



38AXQ07/40RLQ07 Stage 2 Cooling Combination Ratings

38AXQ07/40RLQ07				AMBIENT TEMPERATURE (°F)														
				85			95			105			115			125		
				EA (db)			EA (db)			EA (db)			EA (db)			EA (db)		
				75	80	85	75	80	85	75	80	85	75	80	85	75	80	85
1800 (cfm)	EA (wb)	58	TC	63.3	63.3	71.3	61.1	61.1	68.9	58.8	58.8	66.2	56.1	56.1	63.2	53.3	53.3	60.0
			SHC	55.3	63.3	71.3	53.4	61.1	68.9	51.3	58.8	66.2	49.0	56.1	63.2	46.5	53.3	60.0
		62	TC	66.4	66.4	68.6	63.6	63.6	67.2	60.5	60.5	65.7	57.1	57.1	63.9	54.1	54.1	58.7
			SHC	50.4	59.5	68.6	49.1	58.1	67.2	47.6	56.6	65.7	46.0	54.9	63.9	42.6	50.7	58.7
		67	TC	73.3	73.3	73.3	70.1	70.1	70.1	66.7	66.7	66.7	62.9	62.9	62.9	58.9	58.9	58.9
			SHC	41.6	50.8	59.9	40.3	49.4	58.5	38.9	48.0	57.1	37.3	46.4	55.5	35.7	44.8	53.9
		72	TC	80.8	80.8	80.8	77.3	77.3	77.3	73.5	73.5	73.5	69.2	69.2	69.2	64.9	64.9	64.9
			SHC	32.6	41.8	51.0	31.2	40.4	49.6	29.8	39.0	48.1	28.2	37.4	46.5	26.6	35.8	44.9
		76	TC	—	87.3	87.3	—	83.4	83.4	—	79.3	79.3	—	74.7	74.7	—	70.1	70.1
			SHC	—	34.4	43.8	—	33.1	42.4	—	31.6	40.9	—	30.0	39.3	—	28.5	37.7
2100 (cfm)	EA (wb)	58	TC	66.8	66.8	75.2	64.4	64.4	72.6	61.8	61.8	69.6	58.9	58.9	66.4	55.8	55.8	62.9
			SHC	58.3	66.8	75.2	56.3	64.4	72.6	54.0	61.8	69.6	51.5	58.9	66.4	48.8	55.8	62.9
		62	TC	68.5	68.5	75.0	65.6	65.6	73.4	62.4	62.4	71.5	59.6	59.6	66.2	55.9	55.9	65.3
			SHC	54.2	64.6	75.0	52.8	63.1	73.4	51.1	61.3	71.5	47.7	56.9	66.2	46.4	55.9	65.3
		67	TC	75.5	75.5	75.5	72.1	72.1	72.1	68.4	68.4	68.4	64.4	64.4	64.4	60.2	60.2	60.2
			SHC	44.2	54.7	65.2	42.8	53.3	63.8	41.3	51.8	62.3	39.7	50.2	60.7	38.1	48.6	59.1
		72	TC	83.1	83.1	83.1	79.4	79.4	79.4	75.3	75.3	75.3	70.9	70.9	70.9	66.4	66.4	66.4
			SHC	33.7	44.3	54.8	32.3	42.9	53.4	30.8	41.4	51.9	29.2	39.8	50.3	27.6	38.1	48.7
		76	TC	—	89.7	89.7	—	85.6	85.6	—	81.3	81.3	—	76.4	76.4	—	71.6	71.6
			SHC	—	35.8	46.5	—	34.4	45.1	—	32.9	43.6	—	31.3	41.9	—	29.7	40.3
2400 (cfm)	EA (wb)	58	TC	69.7	69.7	78.5	67.1	67.1	75.6	64.4	64.4	72.5	61.3	61.3	69.0	58.0	58.0	65.3
			SHC	60.9	69.7	78.5	58.7	67.1	75.6	56.2	64.4	72.5	53.5	61.3	69.0	50.6	58.0	65.3
		62	TC	70.7	70.7	79.0	68.2	68.2	74.0	64.4	64.4	75.3	61.3	61.3	71.7	58.0	58.0	67.8
			SHC	56.8	67.9	79.0	53.6	63.8	74.0	53.6	64.4	75.3	51.0	61.3	71.7	48.2	58.0	67.8
		67	TC	77.1	77.1	77.1	73.6	73.6	73.6	69.8	69.8	69.8	65.6	65.6	65.6	61.2	61.2	63.9
			SHC	46.6	58.4	70.3	45.1	57.0	68.8	43.6	55.5	67.3	42.0	53.8	65.6	40.3	52.1	63.9
		72	TC	84.9	84.9	84.9	81.0	81.0	81.0	76.8	76.8	76.8	72.1	72.1	72.1	67.5	67.5	67.5
			SHC	34.7	46.6	58.5	33.3	45.2	57.1	31.8	43.7	55.5	30.1	42.0	53.9	28.5	40.4	52.2
		76	TC	—	91.6	91.6	—	87.3	87.3	—	82.7	82.7	—	77.8	77.8	—	72.8	72.8
			SHC	—	37.0	49.0	—	35.6	47.6	—	34.0	46.0	—	32.4	44.4	—	30.8	42.7
2700 (cfm)	EA (wb)	58	TC	72.2	72.2	81.3	69.5	69.5	78.3	66.5	66.5	75.0	63.3	63.3	71.3	59.8	59.8	67.3
			SHC	63.1	72.2	81.3	60.7	69.5	78.3	58.1	66.5	75.0	55.3	63.3	71.3	52.2	59.8	67.3
		62	TC	73.0	73.0	80.7	70.3	70.3	77.4	66.6	66.6	77.8	63.3	63.3	74.0	59.8	59.8	69.9
			SHC	58.2	69.4	80.7	55.9	66.6	77.4	55.4	66.6	77.8	52.6	63.3	74.0	49.7	59.8	69.9
		67	TC	78.4	78.4	78.4	74.7	74.7	74.7	70.8	70.8	72.1	66.5	66.5	70.3	62.1	62.1	68.5
			SHC	48.8	62.0	75.1	47.4	60.5	73.6	45.8	59.0	72.1	44.1	57.2	70.3	42.4	55.4	68.5
		72	TC	86.3	86.3	86.3	82.2	82.2	82.2	77.9	77.9	77.9	73.1	73.1	73.1	68.3	68.3	68.3
			SHC	35.6	48.8	62.0	34.2	47.4	60.5	32.6	45.8	59.0	31.0	44.1	57.3	29.3	42.5	55.7
		76	TC	—	93.0	93.0	—	88.6	88.6	—	83.9	83.9	—	78.8	78.8	—	73.7	73.7
			SHC	—	38.1	51.4	—	36.6	49.9	—	35.1	48.4	—	33.4	46.7	—	31.8	45.0
3000 (cfm)	EA (wb)	58	TC	74.4	74.4	83.8	71.5	71.5	80.6	68.4	68.4	77.1	65.0	65.0	73.2	61.3	61.3	69.1
			SHC	65.0	74.4	83.8	62.5	71.5	80.6	59.7	68.4	77.1	56.7	65.0	73.2	53.6	61.3	69.1
		62	TC	74.4	74.4	87.0	71.6	71.6	83.6	68.5	68.5	80.0	65.0	65.0	76.0	61.4	61.4	71.7
			SHC	61.9	74.4	87.0	59.5	71.6	83.6	56.9	68.5	80.0	54.0	65.0	76.0	51.0	61.4	71.7
		67	TC	79.5	79.5	79.8	75.7	75.7	78.3	71.7	71.7	76.6	67.2	67.2	74.7	62.8	62.8	72.7
			SHC	51.0	65.4	79.8	49.5	63.9	78.3	47.9	62.3	76.6	46.2	60.4	74.7	44.4	58.6	72.7
		72	TC	87.4	87.4	87.4	83.3	83.3	83.3	78.8	78.8	78.8	73.9	73.9	73.9	69.0	69.0	69.0
			SHC	36.4	50.9	65.4	35.0	49.4	63.9	33.4	47.9	62.3	31.7	46.2	60.6	30.1	44.6	59.0
		76	TC	—	94.2	94.2	—	89.7	89.7	—	84.8	84.8	—	79.6	79.6	—	74.4	74.4
			SHC	—	39.1	53.6	—	37.6	52.2	—	36.1	50.6	—	34.4	48.9	—	32.7	47.3

LEGEND

EA (db) — Entering Air Temperature (dry bulb)
 EA (wb) — Entering Air Temperature (wet bulb)
 SHC — Sensible Cooling Capacity, Gross (1000 Btuh)
 TC — Total Cooling Capacity, Gross (1000 Btuh)

38AXQ07/40RLQ07 Stage 1 Cooling Combination Ratings

38AXQ07/40RLQ07				AMBIENT TEMPERATURE (°F)														
				85			95			105			115			125		
				EA (db)			EA (db)			EA (db)			EA (db)			EA (db)		
				75	80	85	75	80	85	75	80	85	75	80	85	75	80	85
1500 (cfm)	EA (wb)	58	TC	46.8	46.8	52.7	45.1	45.1	50.8	43.2	43.2	48.6	41.0	41.0	46.2	38.5	38.5	43.4
			SHC	40.8	46.8	52.7	39.4	45.1	50.8	37.7	43.2	48.6	35.8	41.0	46.2	33.6	38.5	43.4
		62	TC	48.0	48.0	52.9	45.8	45.8	51.7	43.9	43.9	48.1	41.8	41.8	45.1	38.6	38.6	45.1
			SHC	38.1	45.5	52.9	37.0	44.4	51.7	34.7	41.4	48.1	32.7	38.9	45.1	32.0	38.6	45.1
		67	TC	53.4	53.4	53.4	51.0	51.0	51.0	48.2	48.2	48.2	45.2	45.2	45.2	41.8	41.8	41.8
			SHC	31.3	38.7	46.2	30.3	37.7	45.2	29.1	36.6	44.1	27.9	35.4	42.8	26.6	34.1	41.5
		72	TC	59.4	59.4	59.4	56.8	56.8	56.8	53.8	53.8	53.8	50.5	50.5	50.5	46.9	46.9	46.9
			SHC	24.1	31.6	39.1	23.1	30.6	38.1	22.0	29.5	37.0	20.8	28.3	35.8	19.5	27.0	34.5
		76	TC	—	64.6	64.6	—	61.8	61.8	—	58.6	58.6	—	55.1	55.1	—	51.3	51.3
			SHC	—	25.8	33.4	—	24.8	32.4	—	23.7	31.3	—	22.5	30.1	—	21.2	28.8
1800 (cfm)	EA (wb)	58	TC	49.8	49.8	56.1	47.9	47.9	54.0	45.8	45.8	51.6	43.4	43.4	49.0	40.8	40.8	46.0
			SHC	43.5	49.8	56.1	41.8	47.9	54.0	40.0	45.8	51.6	37.9	43.4	49.0	35.6	40.8	46.0
		62	TC	50.5	50.5	55.4	48.6	48.6	53.3	45.9	45.9	53.6	43.5	43.5	50.9	40.8	40.8	47.7
			SHC	40.0	47.7	55.4	38.5	45.9	53.3	38.1	45.9	53.6	36.1	43.5	50.9	33.9	40.8	47.7
		67	TC	55.2	55.2	55.2	52.6	52.6	52.6	49.7	49.7	49.7	46.5	46.5	47.8	43.0	43.0	46.4
			SHC	33.7	42.5	51.3	32.6	41.4	50.2	31.5	40.3	49.1	30.2	39.0	47.8	28.9	37.6	46.4
		72	TC	61.4	61.4	61.4	58.5	58.5	58.5	55.4	55.4	55.4	51.9	51.9	51.9	48.1	48.1	48.1
			SHC	25.2	34.0	42.8	24.1	33.0	41.8	23.0	31.9	40.7	21.8	30.6	39.5	20.5	29.3	38.1
		76	TC	—	66.7	66.7	—	63.7	63.7	—	60.3	60.3	—	56.6	56.6	—	52.6	52.6
			SHC	—	27.1	36.0	—	26.1	35.0	—	25.0	33.9	—	23.7	32.6	—	22.4	31.3
2100 (cfm)	EA (wb)	58	TC	52.2	52.2	58.9	50.2	50.2	56.6	48.0	48.0	54.1	45.5	45.5	51.2	42.6	42.6	48.0
			SHC	45.6	52.2	58.9	43.9	50.2	56.6	41.9	48.0	54.1	39.7	45.5	51.2	37.2	42.6	48.0
		62	TC	52.3	52.3	61.2	50.3	50.3	58.8	48.0	48.0	56.2	45.5	45.5	53.2	42.7	42.7	49.9
			SHC	43.4	52.3	61.2	41.8	50.3	58.8	39.9	48.0	56.2	37.8	45.5	53.2	35.4	42.7	49.9
		67	TC	56.5	56.5	56.5	53.8	53.8	55.0	50.8	50.8	53.8	47.5	47.5	52.4	43.8	43.8	50.8
			SHC	35.9	46.0	56.1	34.9	44.9	55.0	33.7	43.7	53.8	32.4	42.4	52.4	30.9	40.8	50.8
		72	TC	62.8	62.8	62.8	59.8	59.8	59.8	56.6	56.6	56.6	53.0	53.0	53.0	49.0	49.0	49.0
			SHC	26.1	36.2	46.4	25.0	35.2	45.3	23.9	34.0	44.2	22.7	32.8	42.9	21.3	31.4	41.6
		76	TC	—	68.2	68.2	—	65.0	65.0	—	61.6	61.6	—	57.7	57.7	—	53.5	53.5
			SHC	—	28.2	38.5	—	27.2	37.4	—	26.1	36.3	—	24.8	35.0	—	23.5	33.7
2400 (cfm)	EA (wb)	58	TC	54.3	54.3	61.2	52.2	52.2	58.8	49.8	49.8	56.1	47.1	47.1	53.1	44.1	44.1	49.8
			SHC	47.4	54.3	61.2	45.5	52.2	58.8	43.5	49.8	56.1	41.1	47.1	53.1	38.5	44.1	49.8
		62	TC	54.3	54.3	63.6	52.2	52.2	61.1	49.8	49.8	58.3	47.2	47.2	55.2	44.2	44.2	51.7
			SHC	45.1	54.3	63.6	43.4	52.2	61.1	41.4	49.8	58.3	39.2	47.2	55.2	36.7	44.2	51.7
		67	TC	57.5	57.5	60.6	54.7	54.7	59.4	51.6	51.6	58.1	48.3	48.3	56.5	44.6	44.6	54.6
			SHC	38.0	49.3	60.6	36.9	48.2	59.4	35.7	46.9	58.1	34.3	45.4	56.5	32.7	43.6	54.6
		72	TC	63.9	63.9	63.9	60.8	60.8	60.8	57.4	57.4	57.4	53.7	53.7	53.7	49.7	49.7	49.7
			SHC	26.9	38.3	49.7	25.8	37.2	48.6	24.7	36.1	47.4	23.4	34.8	46.2	22.1	33.5	44.8
		76	TC	—	69.4	69.4	—	66.1	66.1	—	62.5	62.5	—	58.5	58.5	—	54.3	54.3
			SHC	—	29.3	40.8	—	28.2	39.6	—	27.1	38.5	—	25.8	37.2	—	24.5	35.9
2700 (cfm)	EA (wb)	58	TC	56.0	56.0	63.2	53.8	53.8	60.6	51.3	51.3	57.8	48.5	48.5	54.7	45.4	45.4	51.2
			SHC	48.9	56.0	63.2	47.0	53.8	60.6	44.8	51.3	57.8	42.4	48.5	54.7	39.7	45.4	51.2
		62	TC	56.1	56.1	65.6	53.9	53.9	63.0	51.4	51.4	60.1	48.6	48.6	56.8	45.5	45.5	53.2
			SHC	46.6	56.1	65.6	44.7	53.9	63.0	42.7	51.4	60.1	40.3	48.6	56.8	37.8	45.5	53.2
		67	TC	58.3	58.3	64.8	55.5	55.5	63.5	52.4	52.4	62.0	49.0	49.0	60.1	45.5	45.5	57.1
			SHC	39.9	52.3	64.8	38.8	51.1	63.5	37.5	49.7	62.0	36.0	48.0	60.1	34.0	45.5	57.1
		72	TC	64.7	64.7	64.7	61.6	61.6	61.6	58.1	58.1	58.1	54.3	54.3	54.3	50.2	50.2	50.2
			SHC	27.7	40.3	52.9	26.6	39.2	51.8	25.4	38.0	50.6	24.2	36.7	49.3	22.8	35.4	48.0
		76	TC	—	70.3	70.3	—	67.0	67.0	—	63.3	63.3	—	59.2	59.2	—	54.8	54.8
			SHC	—	30.2	42.9	—	29.1	41.8	—	28.0	40.6	—	26.7	39.3	—	25.4	38.0

LEGEND

EA (db) — Entering Air Temperature (dry bulb)
 EA (wb) — Entering Air Temperature (wet bulb)
 SHC — Sensible Cooling Capacity, Gross (1000 Btuh)
 TC — Total Cooling Capacity, Gross (1000 Btuh)

38AXQ08/40RLQ08 Stage 2 Cooling Combination Ratings

38AXQ08/40RLQ08				AMBIENT TEMPERATURE (°F)														
				85			95			105			115			125		
				EA (db)			EA (db)			EA (db)			EA (db)			EA (db)		
				75	80	85	75	80	85	75	80	85	75	80	85	75	80	85
2250 (cfm)	EA (wb)	58	TC	78.3	78.3	88.9	74.4	74.4	84.6	70.2	70.2	80.0	65.7	65.7	75.1	60.9	60.9	69.8
			SHC	67.7	78.3	88.9	64.1	74.4	84.6	60.3	70.2	80.0	56.3	65.7	75.1	51.9	60.9	69.8
		62	TC	83.8	83.8	83.8	78.9	78.9	80.5	73.7	73.7	77.3	68.2	68.2	74.0	62.3	62.3	70.4
			SHC	60.8	72.2	83.5	57.8	69.1	80.5	54.7	66.0	77.3	51.4	62.7	74.0	47.9	59.2	70.4
		67	TC	93.0	93.0	93.0	87.8	87.8	87.8	82.2	82.2	82.2	76.2	76.2	76.2	69.8	69.8	69.8
			SHC	50.1	61.5	72.8	47.1	58.5	69.8	44.0	55.3	66.7	40.8	52.1	63.4	37.4	48.7	60.1
		72	TC	103.0	103.0	103.0	97.3	97.3	97.3	91.3	91.3	91.3	84.8	84.8	84.8	77.9	77.9	77.9
			SHC	39.3	50.5	61.7	36.3	47.5	58.7	33.1	44.4	55.6	29.9	41.1	52.4	26.5	37.8	49.0
		76	TC	—	112.0	112.0	—	105.0	105.0	—	98.9	98.9	—	92.0	92.0	—	84.7	84.7
			SHC	—	41.5	51.7	—	38.5	49.1	—	35.4	46.1	—	32.2	43.0	—	28.8	39.7
2650 (cfm)	EA (wb)	58	TC	83.5	83.5	94.7	79.3	79.3	90.1	74.8	74.8	85.1	69.9	69.9	79.9	64.8	64.8	74.2
			SHC	72.3	83.5	94.7	68.4	79.3	90.1	64.4	74.8	85.1	60.0	69.9	79.9	55.4	64.8	74.2
		62	TC	86.9	86.9	92.4	81.8	81.8	89.2	76.4	76.4	85.8	70.7	70.7	82.0	66.4	66.4	71.9
			SHC	66.1	79.2	92.4	63.0	76.1	89.2	59.7	72.7	85.8	56.3	69.1	82.0	49.7	60.8	71.9
		67	TC	96.3	96.3	96.3	90.8	90.8	90.8	84.9	84.9	84.9	78.6	78.6	78.6	71.9	71.9	71.9
			SHC	53.6	66.8	79.9	50.6	63.7	76.9	47.4	60.5	73.7	44.1	57.2	70.4	40.7	53.8	66.9
		72	TC	107.0	107.0	107.0	100.5	100.5	100.5	94.1	94.1	94.1	87.3	87.3	87.3	80.1	80.1	80.1
			SHC	40.9	53.9	66.9	37.8	50.8	63.8	34.6	47.6	60.6	31.3	44.3	57.3	27.9	40.9	53.9
		76	TC	—	115.0	115.0	—	109.0	109.0	—	102.0	102.0	—	94.6	94.6	—	86.9	86.9
			SHC	—	43.4	55.7	—	40.3	52.7	—	37.1	49.6	—	33.8	46.3	—	30.4	42.9
3000 (cfm)	EA (wb)	58	TC	87.3	87.3	98.9	82.8	82.8	94.1	78.1	78.1	88.9	73.1	73.1	83.3	67.6	67.6	77.4
			SHC	75.7	87.3	98.9	71.6	82.8	94.1	67.3	78.1	88.9	62.8	73.1	83.3	57.9	67.6	77.4
		62	TC	89.2	89.2	99.5	84.0	84.0	96.0	79.1	79.1	89.9	74.7	74.7	81.0	67.7	67.7	80.7
			SHC	70.4	85.0	99.5	67.2	81.6	96.0	62.6	76.2	89.9	56.7	68.8	81.0	54.7	67.7	80.7
		67	TC	98.6	98.6	98.6	92.8	92.8	92.8	86.7	86.7	86.7	80.2	80.2	80.2	73.3	73.3	73.3
			SHC	56.5	71.2	85.9	53.4	68.1	82.8	50.2	64.9	79.5	46.9	61.5	76.2	43.4	58.0	72.7
		72	TC	109.0	109.0	109.0	103.0	103.0	103.0	96.0	96.0	96.0	89.0	89.0	89.0	81.6	81.6	81.6
			SHC	42.1	56.6	71.1	39.0	53.5	68.0	35.8	50.3	64.8	32.4	46.9	61.4	28.9	43.4	57.9
		76	TC	—	117.3	117.3	—	111.0	111.0	—	104.0	104.0	—	96.3	96.3	—	88.4	88.4
			SHC	—	44.7	58.7	—	41.6	55.6	—	38.4	52.4	—	35.1	49.1	—	31.6	45.6
3550 (cfm)	EA (wb)	58	TC	92.2	92.2	104.4	87.4	87.4	99.2	82.4	82.4	93.6	77.0	77.0	87.7	71.2	71.2	81.3
			SHC	80.0	92.2	104.4	75.7	87.4	99.2	71.1	82.4	93.6	66.3	77.0	87.7	61.1	71.2	81.3
		62	TC	92.4	92.4	108.7	87.5	87.5	103.2	82.5	82.5	97.5	77.1	77.1	91.4	71.3	71.3	84.8
			SHC	76.1	92.4	108.7	71.8	87.5	103.2	67.4	82.5	97.5	62.7	77.1	91.4	57.7	71.3	84.8
		67	TC	101.3	101.3	101.3	95.2	95.2	95.2	88.9	88.9	88.9	82.2	82.2	84.9	74.9	74.9	81.3
			SHC	60.7	77.7	94.8	57.6	74.6	91.6	54.3	71.3	88.3	50.9	67.9	84.9	47.4	64.4	81.3
		72	TC	112.0	112.0	112.0	105.0	105.0	105.0	98.3	98.3	98.3	91.0	91.0	91.0	83.3	83.3	83.3
			SHC	43.7	60.6	77.4	40.6	57.4	74.2	37.3	54.1	70.9	33.9	50.7	67.5	30.4	47.2	63.9
		76	TC	—	120.2	120.2	—	113.0	113.0	—	106.0	106.0	—	98.3	98.3	—	90.2	90.2
			SHC	—	46.6	62.8	—	43.5	59.7	—	40.2	56.4	—	36.8	53.0	—	33.3	49.5
3750 (cfm)	EA (wb)	58	TC	93.7	93.7	106.1	88.9	88.9	100.8	83.7	83.7	95.1	78.2	78.2	89.1	72.3	72.3	82.6
			SHC	81.3	93.7	106.1	77.0	88.9	100.8	72.3	83.7	95.1	67.3	78.2	89.1	62.0	72.3	82.6
		62	TC	93.8	93.8	110.3	89.0	89.0	104.9	83.8	83.8	99.1	78.3	78.3	92.8	72.4	72.4	86.1
			SHC	77.3	93.8	110.3	73.0	89.0	104.9	68.6	83.8	99.1	63.8	78.3	92.8	58.7	72.4	86.1
		67	TC	102.1	102.1	102.1	96.0	96.0	96.0	89.5	89.5	91.4	82.7	82.7	88.0	75.4	75.4	84.2
			SHC	62.2	80.0	97.9	59.0	76.9	94.7	55.8	73.6	91.4	52.4	70.2	88.0	48.7	66.5	84.2
		72	TC	112.0	112.0	112.0	106.0	106.0	106.0	98.9	98.9	98.9	91.6	91.6	91.6	83.9	83.9	83.9
			SHC	44.3	61.9	79.6	41.1	58.7	76.4	37.8	55.4	73.1	34.4	52.0	69.6	30.9	48.5	66.0
		76	TC	—	121.0	121.0	—	114.1	114.1	—	107.0	107.0	—	98.9	98.9	—	90.7	90.7
			SHC	—	47.2	64.3	—	44.1	61.1	—	40.8	57.8	—	37.3	54.4	—	33.8	50.8

LEGEND

EA (db) — Entering Air Temperature (dry bulb)
 EA (wb) — Entering Air Temperature (wet bulb)
 SHC — Sensible Cooling Capacity, Gross (1000 Btuh)
 TC — Total Cooling Capacity, Gross (1000 Btuh)

38AXQ08/40RLQ08 Stage 1 Cooling Combination Ratings

38AXQ08/40RLQ08				AMBIENT TEMPERATURE (°F)														
				85			95			105			115			125		
				EA (db)			EA (db)			EA (db)			EA (db)			EA (db)		
				75	80	85	75	80	85	75	80	85	75	80	85	75	80	85
1500 (cfm)	EA (wb)	58	TC	56.0	56.0	63.0	54.1	54.1	60.8	51.9	51.9	58.3	49.5	49.5	55.6	46.9	46.9	52.6
			SHC	49.0	56.0	63.0	47.3	54.1	60.8	45.5	51.9	58.3	43.4	49.5	55.6	41.2	46.9	52.6
		62	TC	59.3	59.3	59.6	56.7	56.7	58.5	53.8	53.8	57.2	50.7	50.7	55.7	47.3	47.3	53.9
			SHC	44.4	52.0	59.6	43.2	50.8	58.5	42.0	49.6	57.2	40.6	48.2	55.7	39.0	46.5	53.9
		67	TC	65.4	65.4	65.4	62.6	62.6	62.6	59.5	59.5	59.5	56.1	56.1	56.1	52.3	52.3	52.3
			SHC	37.0	44.6	52.2	35.9	43.5	51.1	34.7	42.3	49.9	33.4	41.0	48.6	32.0	39.6	47.2
		72	TC	72.0	72.0	72.0	69.0	69.0	69.0	65.7	65.7	65.7	62.1	62.1	62.1	58.0	58.0	58.0
			SHC	29.4	37.0	44.5	28.4	35.9	43.5	27.2	34.8	42.3	26.0	33.5	41.1	24.6	32.1	39.7
		76	TC	—	77.8	77.8	—	74.6	74.6	—	71.1	71.1	—	67.2	67.2	—	62.9	62.9
			SHC	—	30.7	38.9	—	29.7	36.6	—	28.6	35.7	—	27.3	34.5	—	26.0	33.3
1700 (cfm)	EA (wb)	58	TC	58.5	58.5	65.8	56.4	56.4	63.5	54.2	54.2	60.9	51.6	51.6	58.0	48.8	48.8	54.8
			SHC	51.2	58.5	65.8	49.4	56.4	63.5	47.5	54.2	60.9	45.3	51.6	58.0	42.8	48.8	54.8
		62	TC	60.8	60.8	64.0	58.1	58.1	62.8	55.2	55.2	61.4	52.6	52.6	57.0	48.9	48.9	56.9
			SHC	47.0	55.5	64.0	45.8	54.3	62.8	44.5	53.0	61.4	41.7	49.3	57.0	40.9	48.9	56.9
		67	TC	67.0	67.0	67.0	64.1	64.1	64.1	60.9	60.9	60.9	57.3	57.3	57.3	53.4	53.4	53.4
			SHC	38.7	47.2	55.8	37.6	46.1	54.7	36.4	44.9	53.4	35.1	43.6	52.1	33.6	42.2	50.7
		72	TC	73.8	73.8	73.8	70.7	70.7	70.7	67.2	67.2	67.2	63.4	63.4	63.4	59.2	59.2	59.2
			SHC	30.2	38.6	47.1	29.1	37.6	46.0	27.9	36.4	44.8	26.7	35.1	43.6	25.3	33.7	42.2
		76	TC	—	79.6	79.6	—	76.3	76.3	—	72.6	72.6	—	68.6	68.6	—	64.1	64.1
			SHC	—	31.6	39.4	—	30.5	38.5	—	29.4	37.5	—	28.2	36.3	—	26.8	35.0
1900 (cfm)	EA (wb)	58	TC	60.7	60.7	68.3	58.5	58.5	65.8	56.1	56.1	63.1	53.4	53.4	60.0	50.5	50.5	56.7
			SHC	53.1	60.7	68.3	51.2	58.5	65.8	49.1	56.1	63.1	46.9	53.4	60.0	44.3	50.5	56.7
		62	TC	62.1	62.1	68.2	59.4	59.4	66.8	57.1	57.1	61.7	53.6	53.6	62.4	50.5	50.5	58.8
			SHC	49.4	58.8	68.2	48.2	57.5	66.8	45.0	53.4	61.7	44.7	53.6	62.4	42.3	50.5	58.8
		67	TC	68.4	68.4	68.4	65.3	65.3	65.3	62.0	62.0	62.0	58.3	58.3	58.3	54.3	54.3	54.3
			SHC	40.3	49.8	59.2	39.2	48.6	58.1	38.0	47.4	56.9	36.6	46.1	55.5	35.2	44.6	54.1
		72	TC	75.2	75.2	75.2	72.0	72.0	72.0	68.4	68.4	68.4	64.5	64.5	64.5	60.1	60.1	60.1
			SHC	30.9	40.2	49.6	29.8	39.1	48.5	28.6	38.0	47.3	27.3	36.7	46.0	25.9	35.3	44.6
		76	TC	—	81.1	81.1	—	77.7	77.7	—	73.9	73.9	—	69.7	69.7	—	65.1	65.1
			SHC	—	32.4	41.3	—	31.3	40.3	—	30.2	39.2	—	29.0	38.0	—	27.6	36.7
2250 (cfm)	EA (wb)	58	TC	63.9	63.9	71.9	61.6	61.6	69.3	59.0	59.0	66.3	56.1	56.1	63.1	52.9	52.9	59.5
			SHC	55.9	63.9	71.9	53.9	61.6	69.3	51.6	59.0	66.3	49.2	56.1	63.1	46.4	52.9	59.5
		62	TC	64.8	64.8	71.5	61.6	61.6	71.9	59.8	59.8	65.2	56.2	56.2	65.4	53.0	53.0	61.7
			SHC	51.7	61.6	71.5	51.4	61.6	71.9	47.4	56.3	65.2	46.9	56.2	65.4	44.3	53.0	61.7
		67	TC	70.2	70.2	70.2	67.0	67.0	67.0	63.5	63.5	63.5	59.6	59.6	61.2	55.4	55.4	59.6
			SHC	43.0	54.0	65.0	41.9	52.9	63.9	40.6	51.6	62.6	39.2	50.2	61.2	37.7	48.6	59.6
		72	TC	77.2	77.2	77.2	73.8	73.8	73.8	70.0	70.0	70.0	65.9	65.9	65.9	61.4	61.4	61.4
			SHC	31.9	42.8	53.7	30.8	41.7	52.6	29.6	40.5	51.4	28.3	39.2	50.2	26.9	37.8	48.7
		76	TC	—	83.1	83.1	—	79.5	79.5	—	75.6	75.6	—	71.2	71.2	—	66.4	66.4
			SHC	—	33.7	44.1	—	32.6	43.1	—	31.5	42.0	—	30.2	40.8	—	28.8	39.4
3000 (cfm)	EA (wb)	58	TC	69.1	69.1	77.8	66.5	66.5	74.8	63.6	63.6	71.5	60.3	60.3	67.8	56.8	56.8	63.8
			SHC	60.4	69.1	77.8	58.1	66.5	74.8	55.6	63.6	71.5	52.8	60.3	67.8	49.8	56.8	63.8
		62	TC	69.2	69.2	80.8	66.5	66.5	77.6	63.6	63.6	74.2	60.4	60.4	70.4	56.8	56.8	66.2
			SHC	57.6	69.2	80.8	55.4	66.5	77.6	53.0	63.6	74.2	50.4	60.4	70.4	47.5	56.8	66.2
		67	TC	72.7	72.7	76.4	69.3	69.3	75.2	65.6	65.6	73.7	61.6	61.6	72.0	57.8	57.8	66.0
			SHC	48.2	62.3	76.4	47.0	61.1	75.2	45.7	59.7	73.7	44.2	58.1	72.0	40.9	53.4	66.0
		72	TC	79.9	79.9	79.9	76.2	76.2	76.2	72.2	72.2	72.2	67.8	67.8	67.8	63.1	63.1	63.1
			SHC	33.8	47.9	61.9	32.7	46.8	60.8	31.5	45.6	59.6	30.2	44.2	58.3	28.8	42.8	56.9
		76	TC	—	86.0	86.0	—	82.1	82.1	—	77.9	77.9	—	73.3	73.3	—	68.2	68.2
			SHC	—	36.0	49.6	—	35.0	48.6	—	33.8	47.4	—	32.5	46.2	—	31.1	44.8

LEGEND

EA (db) — Entering Air Temperature (dry bulb)
 EA (wb) — Entering Air Temperature (wet bulb)
 SHC — Sensible Cooling Capacity, Gross (1000 Btuh)
 TC — Total Cooling Capacity, Gross (1000 Btuh)

38AXQ12/40RLQ12 Stage 2 Cooling Combination Ratings

38AXQ12/40RLQ12				AMBIENT TEMPERATURE (°F)														
				85			95			105			115			125		
				EA (db)			EA (db)			EA (db)			EA (db)			EA (db)		
				75	80	85	75	80	85	75	80	85	75	80	85	75	80	85
3000 (cfm)	EA (wb)	58	TC	94.8	94.8	108.7	87.9	87.9	101.0	80.7	80.7	94.0	73.2	73.2	86.0	65.3	65.3	77.2
			SHC	80.9	94.8	108.7	74.4	87.9	101.0	67.7	80.7	94.0	60.7	73.2	86.0	53.3	65.3	77.2
		62	TC	102.0	102.0	102.0	94.0	94.0	97.0	85.2	85.2	91.0	76.4	76.4	84.0	65.4	65.4	79.1
			SHC	72.3	87.3	102.4	66.5	81.6	97.0	60.5	75.5	91.0	54.4	69.4	84.0	51.7	65.4	79.1
		67	TC	115.0	115.0	115.0	106.0	106.0	106.0	97.3	97.3	97.3	88.0	88.0	88.0	77.9	77.9	77.9
			SHC	58.9	73.6	88.4	53.1	67.9	82.7	47.2	62.0	76.9	41.1	56.0	70.9	34.8	49.8	64.7
		72	TC	129.0	129.0	129.0	120.0	120.0	120.0	110.0	110.0	110.0	100.0	100.0	100.0	90.0	90.0	90.0
			SHC	45.8	59.9	74.0	39.9	54.1	68.4	33.8	48.2	62.6	27.7	42.2	56.6	21.4	35.9	50.5
		76	TC	—	141.0	141.0	—	131.0	131.0	—	121.0	121.0	—	110.0	110.0	—	99.0	99.0
			SHC	—	48.5	65.0	—	42.6	59.1	—	36.9	53.4	—	30.9	43.4	—	24.8	38.1
3500 (cfm)	EA (wb)	58	TC	102.0	102.0	116.0	94.0	94.0	109.0	87.0	87.0	101.0	79.0	79.0	92.0	70.5	70.5	83.0
			SHC	87.1	102.0	116.3	80.3	94.0	109.0	73.3	87.0	101.0	65.9	79.0	92.0	58.1	70.5	83.0
		62	TC	106.0	106.0	114.0	97.7	97.7	108.0	89.0	89.0	101.0	79.1	79.1	94.0	70.8	70.8	87.0
			SHC	79.3	97.0	114.0	73.4	91.0	108.0	67.2	84.3	101.0	63.9	79.1	94.0	53.9	70.5	87.0
		67	TC	119.0	119.0	119.0	110.0	110.0	110.0	101.0	101.0	101.0	91.0	91.0	91.0	80.7	80.7	80.7
			SHC	63.6	80.7	98.0	57.7	74.8	92.0	51.7	68.8	86.0	45.4	62.6	79.7	39.1	56.3	73.5
		72	TC	133.0	133.0	133.0	124.0	124.0	124.0	114.0	114.0	114.0	103.0	103.0	103.0	92.0	92.0	92.0
			SHC	47.9	64.4	80.9	42.0	58.5	75.1	35.8	52.5	69.1	29.6	46.3	63.0	23.2	39.9	56.6
		76	TC	—	145.0	145.0	—	135.0	135.0	—	124.0	124.0	—	113.0	113.0	—	102.0	102.0
			SHC	—	51.1	70.3	—	45.3	59.5	—	39.3	54.4	—	33.1	48.6	—	26.7	42.6
4000 (cfm)	EA (wb)	58	TC	108.0	108.0	123.0	100.0	100.0	115.0	92.0	92.0	106.0	83.6	83.6	97.0	74.9	74.9	88.0
			SHC	92.2	108.0	123.0	85.2	99.9	114.6	77.8	92.0	106.0	70.1	83.6	97.0	62.0	74.9	88.0
		62	TC	110.0	110.0	124.0	101.0	101.0	117.0	94.0	94.0	107.0	84.7	84.7	100.0	75.0	75.0	92.3
			SHC	85.7	105.0	124.0	79.4	98.0	117.0	71.5	89.3	107.0	64.9	82.5	100.0	57.8	75.0	92.3
		67	TC	122.0	122.0	122.0	113.0	113.0	113.0	104.0	104.0	104.0	93.0	93.0	93.0	82.8	82.8	83.0
			SHC	68.0	87.3	107.0	62.0	81.3	101.0	55.8	75.2	95.0	49.5	68.9	88.0	43.1	62.5	82.0
		72	TC	136.6	136.6	136.6	127.0	127.0	127.0	117.0	117.0	117.0	106.0	106.0	106.0	95.0	95.0	95.0
			SHC	49.8	68.5	87.2	43.8	62.5	81.3	37.5	56.4	75.2	31.2	50.0	68.9	24.7	43.6	62.4
		76	TC	—	148.0	148.0	—	138.0	138.0	—	127.0	127.0	—	115.0	115.0	—	103.0	103.0
			SHC	—	53.4	70.1	—	47.4	64.6	—	41.3	58.8	—	34.9	52.7	—	28.4	46.4
4500 (cfm)	EA (wb)	58	TC	112.0	112.0	128.0	104.0	104.0	120.0	96.0	96.0	111.0	88.0	88.0	102.0	78.6	78.6	92.0
			SHC	97.0	112.0	128.0	89.3	104.0	120.0	81.6	96.0	111.0	73.7	88.0	102.0	65.3	78.6	92.0
		62	TC	113.0	113.0	132.0	105.0	105.0	125.0	96.0	96.0	116.0	88.0	88.0	106.0	78.7	78.7	96.0
			SHC	91.0	112.0	132.0	84.3	105.0	125.0	76.9	96.0	116.0	69.0	88.0	106.0	60.9	78.7	96.0
		67	TC	125.0	125.0	125.0	116.0	116.0	116.0	106.0	106.0	106.0	95.0	95.0	97.0	84.4	84.4	90.0
			SHC	72.1	93.5	115.0	66.0	87.5	109.0	59.8	81.3	103.0	53.4	74.9	97.0	46.9	68.3	90.0
		72	TC	139.2	139.2	139.2	129.0	129.0	129.0	119.0	119.0	119.0	108.0	108.0	108.0	96.0	96.0	96.0
			SHC	51.4	72.3	93.1	45.3	66.2	87.1	39.0	59.9	80.8	32.6	53.5	74.4	26.0	47.0	67.9
		76	TC	—	151.0	151.0	—	140.0	140.0	—	129.0	129.0	—	117.0	117.0	—	105.0	105.0
			SHC	—	55.2	74.5	—	49.1	68.7	—	42.8	62.6	—	36.4	56.3	—	29.7	49.7
5000 (cfm)	EA (wb)	58	TC	117.0	117.0	133.0	108.0	108.0	124.0	100.0	100.0	115.0	91.0	91.0	105.0	81.7	81.7	95.0
			SHC	100.0	117.0	133.0	92.8	108.0	124.0	84.9	100.0	115.0	76.7	91.0	105.0	68.1	81.7	95.0
		62	TC	118.6	118.6	133.0	109.0	109.0	129.0	100.0	100.0	120.0	91.0	91.0	110.0	81.8	81.8	100.0
			SHC	92.8	113.0	133.0	87.7	109.0	129.0	80.0	100.0	120.0	72.0	91.2	110.0	63.6	81.8	99.9
		67	TC	127.0	127.0	127.0	118.0	118.0	118.0	107.5	107.5	110.7	91.0	91.0	114.0	86.0	86.0	97.0
			SHC	76.0	100.0	123.0	69.8	94.0	117.0	63.6	87.2	110.7	69.1	91.3	114.0	50.5	73.9	97.0
		72	TC	141.0	141.0	141.0	131.0	131.0	131.0	121.0	121.0	121.0	109.0	109.0	109.0	98.0	98.0	98.0
			SHC	52.9	75.8	99.0	46.7	69.6	93.0	40.3	63.3	86.2	33.9	56.8	79.7	27.2	50.1	73.0
		76	TC	—	153.0	153.0	—	142.0	142.0	—	130.0	130.0	—	118.0	118.0	—	106.0	106.0
			SHC	—	56.8	78.2	—	50.6	72.3	—	44.2	66.0	—	37.5	59.4	—	30.7	52.4

LEGEND

EA (db) — Entering Air Temperature (dry bulb)
 EA (wb) — Entering Air Temperature (wet bulb)
 SHC — Sensible Cooling Capacity, Gross (1000 Btuh)
 TC — Total Cooling Capacity, Gross (1000 Btuh)

38AXQ12/40RLQ12 Stage 1 Cooling Combination Ratings

38AXQ12/40RLQ12				AMBIENT TEMPERATURE (°F)														
				85			95			105			115			125		
				EA (db)			EA (db)			EA (db)			EA (db)			EA (db)		
				75	80	85	75	80	85	75	80	85	75	80	85	75	80	85
2500 (cfm)	EA (wb)	58	TC	73.4	73.4	83.4	68.8	68.8	78.4	63.9	63.9	73.0	58.6	58.6	67.2	53.0	53.0	61.4
			SHC	63.4	73.4	83.4	59.3	68.8	78.4	54.8	63.9	73.0	50.0	58.6	67.2	44.7	53.0	61.4
		62	TC	75.3	75.3	83.5	69.8	69.8	80.0	64.3	64.3	75.3	58.7	58.7	70.2	53.1	53.1	63.8
			SHC	58.8	71.1	83.5	55.4	67.7	80.0	51.5	63.4	75.3	47.2	58.7	70.2	42.4	53.1	63.8
		67	TC	84.4	84.4	84.4	78.5	78.5	78.5	72.1	72.1	72.1	65.3	65.3	65.3	57.9	57.9	58.4
			SHC	47.5	59.8	72.2	44.3	56.7	69.0	41.0	53.4	65.7	37.4	49.8	62.2	33.7	46.1	58.4
		72	TC	94.4	94.4	94.4	88.2	88.2	88.2	81.5	81.5	81.5	74.3	74.3	74.3	66.6	66.6	66.6
			SHC	36.0	48.0	59.9	32.9	44.9	56.9	29.5	41.6	53.7	26.1	38.2	50.3	22.4	34.6	46.8
		76	TC	—	102.8	102.8	—	96.6	96.6	—	89.4	89.4	—	81.9	81.9	—	73.7	73.7
			SHC	—	38.2	51.9	—	36.6	49.5	—	32.1	43.1	—	28.7	40.1	—	25.2	36.8
3000 (cfm)	EA (wb)	58	TC	78.6	78.6	89.2	73.8	73.8	83.9	68.5	68.5	78.1	62.9	62.9	72.0	56.9	56.9	65.3
			SHC	68.1	78.6	89.2	63.7	73.8	83.9	58.9	68.5	78.1	53.8	62.9	72.0	48.4	56.9	65.3
		62	TC	79.0	79.0	92.0	74.0	74.0	87.1	68.6	68.6	81.4	63.0	63.0	75.1	57.0	57.0	68.3
			SHC	64.2	78.1	92.0	60.2	73.6	87.1	55.7	68.6	81.4	50.9	63.0	75.1	45.7	57.0	68.3
		67	TC	87.2	87.2	87.2	81.1	81.1	81.1	74.4	74.4	74.4	67.3	67.3	70.7	59.8	59.8	66.8
			SHC	51.7	66.3	80.8	48.5	63.1	77.7	45.0	59.6	74.3	41.5	56.1	70.7	37.7	52.2	66.8
		72	TC	97.4	97.4	97.4	91.0	91.0	91.0	84.0	84.0	84.0	76.5	76.5	76.5	68.5	68.5	68.5
			SHC	37.8	52.0	66.2	34.6	48.9	63.1	31.2	45.5	59.9	27.7	42.1	56.4	24.0	38.4	52.9
		76	TC	—	105.8	105.8	—	99.2	99.2	—	91.8	91.8	—	84.1	84.1	—	75.7	75.7
			SHC	—	40.4	53.3	—	37.4	50.6	—	34.1	47.6	—	30.7	44.4	—	27.1	41.0
3500 (cfm)	EA (wb)	58	TC	82.8	82.8	93.9	77.8	77.8	88.4	72.3	72.3	82.3	66.3	66.3	75.8	60.0	60.0	68.8
			SHC	71.8	82.8	93.9	67.2	77.8	88.4	62.2	72.3	82.3	56.9	66.3	75.8	51.2	60.0	68.8
		62	TC	82.9	82.9	97.7	77.8	77.8	92.0	72.4	72.4	85.8	66.4	66.4	79.0	60.0	60.0	71.8
			SHC	68.1	82.9	97.7	63.7	77.8	92.0	58.9	72.4	85.8	53.8	66.4	79.0	48.3	60.0	71.8
		67	TC	89.4	89.4	89.9	83.0	83.0	85.7	72.4	72.4	88.0	69.0	69.0	78.4	61.4	61.4	74.3
			SHC	55.9	72.9	89.9	52.2	69.0	85.7	56.9	72.4	88.0	45.1	61.7	78.4	41.2	57.7	74.3
		72	TC	99.5	99.5	99.5	93.0	93.0	93.0	83.1	83.1	83.1	78.1	78.1	78.1	69.9	69.9	69.9
			SHC	39.3	55.7	72.1	36.1	52.5	69.0	41.8	57.4	73.1	29.1	45.6	62.2	25.4	42.0	58.5
		76	TC	—	108.0	108.0	—	101.2	101.2	—	93.8	93.8	—	85.6	85.6	—	77.2	77.2
			SHC	—	42.3	57.6	—	39.2	54.8	—	35.9	51.6	—	32.4	48.2	—	28.8	44.7
4000 (cfm)	EA (wb)	58	TC	86.3	86.3	97.7	81.0	81.0	92.0	75.2	75.2	85.6	69.1	69.1	78.8	62.5	62.5	71.6
			SHC	74.8	86.3	97.7	70.1	81.0	92.0	64.8	75.2	85.6	59.3	69.1	78.8	53.4	62.5	71.6
		62	TC	86.4	86.4	101.7	81.1	81.1	95.7	75.3	75.3	89.2	69.1	69.1	82.2	62.6	62.6	74.8
			SHC	71.0	86.4	101.7	66.4	81.1	95.7	61.4	75.3	89.2	56.1	69.1	82.2	50.4	62.6	74.8
		67	TC	90.9	90.9	96.8	84.5	84.5	93.4	77.6	77.6	89.4	70.4	70.4	85.4	63.0	63.0	79.7
			SHC	59.2	78.0	96.8	55.8	74.6	93.4	52.1	70.8	89.4	48.4	66.9	85.4	44.0	61.8	79.7
		72	TC	101.2	101.2	101.2	94.5	94.5	94.5	87.2	87.2	87.2	79.3	79.3	79.3	70.9	70.9	70.9
			SHC	40.6	59.1	77.7	37.4	56.0	74.5	34.0	52.6	71.2	30.4	49.0	67.6	26.7	45.4	64.0
		76	TC	—	109.7	109.7	—	102.8	102.8	—	95.2	95.2	—	86.9	86.9	—	78.2	78.2
			SHC	—	43.9	61.5	—	40.8	58.5	—	37.4	55.2	—	33.9	51.8	—	30.2	48.2
4500 (cfm)	EA (wb)	58	TC	89.1	89.1	100.8	83.7	83.7	94.9	77.7	77.7	88.4	71.4	71.4	81.4	64.6	64.6	73.9
			SHC	77.3	89.1	100.8	72.4	83.7	94.9	67.1	77.7	88.4	61.3	71.4	81.4	55.3	64.6	73.9
		62	TC	89.2	89.2	105.0	83.7	83.7	98.7	77.8	77.8	92.1	71.5	71.5	84.9	64.6	64.6	77.1
			SHC	73.5	89.2	105.0	68.7	83.7	98.7	63.6	77.8	92.1	58.0	71.5	84.9	52.2	64.6	77.1
		67	TC	92.2	92.2	103.9	85.9	85.9	100.3	79.0	79.0	96.1	75.9	75.9	79.7	65.6	65.6	81.6
			SHC	62.5	83.2	103.9	59.1	79.7	100.3	55.3	75.7	96.1	45.6	62.6	79.7	45.4	63.5	81.6
		72	TC	102.5	102.5	102.5	95.7	95.7	95.7	88.3	88.3	88.3	80.3	80.3	80.3	71.8	71.8	71.8
			SHC	41.8	62.4	83.0	38.6	59.2	79.8	35.2	55.8	76.5	31.6	52.3	73.0	27.9	48.6	69.3
		76	TC	—	111.1	111.1	—	104.1	104.1	—	96.3	96.3	—	87.9	87.9	—	79.1	79.1
			SHC	—	45.3	65.0	—	42.2	61.9	—	38.8	58.6	—	35.2	55.1	—	31.5	51.4

LEGEND

EA (db) — Entering Air Temperature (dry bulb)
 EA (wb) — Entering Air Temperature (wet bulb)
 SHC — Sensible Cooling Capacity, Gross (1000 Btuh)
 TC — Total Cooling Capacity, Gross (1000 Btuh)

38AXQ16/40RLQ16 Stage 3 Cooling Combination Ratings

38AXQ16/40RLQ16				AMBIENT TEMPERATURE (°F)														
				85			95			105			115			125		
				EA (db)			EA (db)			EA (db)			EA (db)			EA (db)		
				75	80	85	75	80	85	75	80	85	75	80	85	75	80	85
4500 (cfm)	EA (wb)	58	TC	170.0	170.0	192.0	165.0	165.0	185.0	158.0	158.0	178.0	151.0	151.0	171.0	144.0	144.0	162.0
			SHC	149.0	170.0	192.0	144.0	165.0	185.0	138.0	158.0	178.0	132.0	151.0	171.0	126.0	144.0	162.0
		62	TC	180.0	180.0	180.0	173.0	173.0	176.0	165.0	165.0	172.0	156.0	156.0	168.0	146.0	146.0	163.0
			SHC	134.0	157.0	180.0	130.0	153.0	176.0	126.0	149.0	172.0	122.0	145.0	168.0	118.0	140.0	163.0
		67	TC	198.0	198.0	198.0	189.0	189.0	189.0	180.0	180.0	180.0	170.0	170.0	170.0	160.0	160.0	160.0
			SHC	110.0	133.0	157.0	107.0	130.0	153.0	102.8	126.0	149.0	98.8	122.0	145.0	94.4	118.0	141.0
		72	TC	216.0	216.0	216.0	207.0	207.0	207.0	197.0	197.0	197.0	186.0	186.0	186.0	174.0	174.0	174.0
			SHC	86.0	109.0	133.0	82.4	106.0	129.0	78.6	101.9	125.0	74.5	97.8	121.0	70.2	93.4	117.0
		76	TC	—	231.7	231.7	—	222.0	222.0	—	211.0	211.0	—	199.0	199.0	—	186.0	186.0
			SHC	—	89.7	114.0	—	86.1	110.0	—	82.2	106.0	—	78.1	102.0	—	73.7	97.4
5250 (cfm)	EA (wb)	58	TC	179.0	179.0	202.0	173.0	173.0	195.0	166.0	166.0	187.0	159.0	159.0	179.0	150.0	150.0	169.0
			SHC	157.0	179.0	202.0	151.0	173.0	195.0	145.0	166.0	187.0	139.0	159.0	179.0	131.0	150.0	169.0
		62	TC	186.0	186.0	196.0	178.0	178.0	192.0	169.0	169.0	188.0	160.0	160.0	183.0	151.0	151.0	175.0
			SHC	143.0	170.0	196.0	140.0	166.0	192.0	136.0	162.0	188.0	131.0	157.0	183.0	125.0	150.0	175.0
		67	TC	203.0	203.0	203.0	194.0	194.0	194.0	185.0	185.0	185.0	174.0	174.0	174.0	163.0	163.0	163.0
			SHC	116.0	143.0	170.0	113.0	139.0	166.0	109.0	135.0	162.0	105.0	131.0	158.0	100.1	127.0	153.0
		72	TC	222.0	222.0	222.0	212.0	212.0	212.0	201.0	201.0	201.0	190.0	190.0	190.0	178.0	178.0	178.0
			SHC	88.3	115.0	142.0	84.6	111.0	138.0	80.6	107.0	134.0	76.5	103.0	130.0	72.2	98.9	125.6
		76	TC	—	238.0	238.0	—	227.0	227.0	—	215.0	215.0	—	203.0	203.0	—	190.0	190.0
			SHC	—	92.4	120.0	—	88.7	116.0	—	84.7	112.0	—	80.5	108.0	—	76.1	103.0
6000 (cfm)	EA (wb)	58	TC	187.0	187.0	210.0	180.0	180.0	203.0	173.0	173.0	194.0	165.0	165.0	185.0	156.0	156.0	176.0
			SHC	163.0	187.0	210.0	157.0	180.0	203.0	151.0	173.0	194.0	144.0	165.0	185.0	137.0	156.0	176.0
		62	TC	190.0	190.0	211.0	182.0	182.0	207.0	173.0	173.0	200.0	165.0	165.0	192.0	156.0	156.0	182.0
			SHC	152.0	182.0	211.0	148.0	178.0	207.0	143.0	172.0	200.0	137.0	165.0	192.0	130.0	156.0	182.0
		67	TC	207.0	207.0	207.0	198.0	198.0	198.0	188.0	188.0	188.0	177.0	177.0	177.0	166.0	166.0	166.0
			SHC	122.0	152.0	182.0	118.0	148.0	179.0	114.0	145.0	175.0	110.0	140.0	170.0	106.0	136.0	166.0
		72	TC	226.0	226.0	226.0	216.0	216.0	216.0	205.0	205.0	205.0	193.0	193.0	193.0	180.0	180.0	180.0
			SHC	90.2	121.0	151.0	86.5	117.0	147.0	82.5	113.0	142.9	78.3	109.0	139.0	74.0	104.0	134.0
		76	TC	—	242.0	242.0	—	231.0	231.0	—	219.0	219.0	—	206.0	206.0	—	192.0	192.0
			SHC	—	94.8	126.0	—	91.0	122.0	—	87.0	118.0	—	82.7	113.0	—	78.3	109.0
6750 (cfm)	EA (wb)	58	TC	193.0	193.0	217.0	186.0	186.0	209.0	178.0	178.0	201.0	170.0	170.0	191.0	160.0	160.0	180.0
			SHC	169.0	193.0	217.0	162.0	186.0	209.0	156.0	178.0	201.0	148.0	170.0	191.0	140.0	160.0	180.0
		62	TC	194.0	194.0	225.0	186.0	186.0	217.0	178.0	178.0	208.0	170.0	170.0	198.0	160.0	160.0	187.0
			SHC	160.0	192.0	225.0	155.0	186.0	217.0	148.0	178.0	208.0	141.0	170.0	198.0	133.0	160.0	187.0
		67	TC	211.0	211.0	211.0	201.0	201.0	201.0	191.0	191.0	191.0	179.0	179.0	182.0	168.0	168.0	178.0
			SHC	128.0	161.0	195.0	124.0	157.0	191.0	120.0	153.0	187.0	116.0	149.0	182.0	111.0	144.0	178.0
		72	TC	230.0	230.0	230.0	219.0	219.0	219.0	207.0	207.0	207.0	195.0	195.0	195.0	182.0	182.0	182.0
			SHC	92.0	126.0	159.0	88.2	122.0	155.0	84.2	118.0	151.0	80.0	114.0	147.0	75.7	109.0	143.0
		76	TC	—	246.0	246.0	—	234.0	234.0	—	222.0	222.0	—	208.0	208.0	—	194.0	194.0
			SHC	—	97.0	131.0	—	93.1	127.0	—	89.0	123.0	—	84.8	119.0	—	80.3	114.0
7500 (cfm)	EA (wb)	58	TC	198.0	198.0	224.0	191.0	191.0	215.0	183.0	183.0	206.0	174.0	174.0	196.0	164.0	164.0	185.0
			SHC	173.0	198.0	224.0	167.0	191.0	215.0	159.0	183.0	206.0	152.0	174.0	196.0	143.0	164.0	185.0
		62	TC	199.0	199.0	232.0	191.0	191.0	223.0	183.0	183.0	214.0	174.0	174.0	203.0	164.0	164.0	192.0
			SHC	165.0	199.0	232.0	159.0	191.0	223.0	152.0	183.0	214.0	145.0	174.0	203.0	137.0	164.0	192.0
		67	TC	213.0	213.0	213.0	203.0	203.0	203.0	193.0	193.0	198.0	181.0	181.0	194.0	169.0	169.0	189.0
			SHC	133.0	170.0	206.0	129.0	166.0	202.0	125.0	162.0	198.0	121.0	157.0	194.0	116.0	153.0	189.0
		72	TC	232.0	232.0	232.0	221.0	221.0	221.0	210.0	210.0	210.0	197.0	197.0	197.0	184.0	184.0	184.0
			SHC	93.6	131.0	167.0	89.8	127.0	164.0	85.8	123.0	159.0	81.6	118.0	155.0	77.3	114.0	151.0
		76	TC	—	249.0	249.0	—	237.0	237.0	—	224.0	224.0	—	210.0	210.0	—	196.0	196.0
			SHC	—	98.8	136.0	—	95.0	132.0	—	90.9	128.0	—	86.6	124.0	—	82.1	119.0

LEGEND

EA (db) — Entering Air Temperature (dry bulb)
 EA (wb) — Entering Air Temperature (wet bulb)
 SHC — Sensible Cooling Capacity, Gross (1000 Btuh)
 TC — Total Cooling Capacity, Gross (1000 Btuh)

38AXQ16/40RLQ16 Stage 2 Cooling Combination Ratings

38AXQ16/40RLQ16				AMBIENT TEMPERATURE (°F)														
				85			95			105			115			125		
				EA (db)			EA (db)			EA (db)			EA (db)			EA (db)		
				75	80	85	75	80	85	75	80	85	75	80	85	75	80	85
3750 (cfm)	EA (wb)	58	TC	141.0	141.0	155.0	135.0	135.0	150.0	129.0	129.0	146.0	124.0	124.0	140.0	117.0	117.0	133.0
			SHC	120.0	137.0	155.0	116.0	133.0	150.0	113.0	129.0	146.0	108.0	124.0	140.0	102.0	117.0	133.0
		62	TC	148.0	148.0	149.0	142.0	142.0	145.0	135.0	135.0	140.0	128.0	128.0	135.0	120.0	120.0	129.0
			SHC	110.0	129.0	149.0	106.0	126.0	145.0	102.0	121.0	140.0	98.0	116.0	135.0	93.0	111.0	129.0
		67	TC	164.0	164.0	164.0	157.0	157.0	157.0	149.0	149.0	149.0	141.0	141.0	141.0	131.0	131.0	131.0
			SHC	91.0	111.0	130.0	88.0	108.0	127.0	84.6	104.0	124.0	81.2	101.0	120.0	77.5	97.0	117.0
		72	TC	181.0	181.0	181.0	173.0	173.0	173.0	164.0	164.0	164.0	155.0	155.0	155.0	145.0	145.0	145.0
			SHC	71.3	91.0	111.0	68.2	88.0	108.0	65.0	84.8	105.0	61.6	81.3	101.0	57.9	77.7	97.0
		76	TC	—	194.9	194.9	—	186.0	186.0	—	178.0	178.0	—	167.0	167.0	—	156.0	156.0
			SHC	—	75.0	95.0	—	72.0	92.0	—	68.9	89.0	—	65.4	86.0	—	61.7	81.8
4500 (cfm)	EA (wb)	58	TC	149.0	149.0	169.0	144.0	144.0	162.0	138.0	138.0	156.0	131.0	131.0	148.0	125.0	125.0	141.0
			SHC	130.0	149.0	169.0	125.0	144.0	162.0	120.0	138.0	156.0	115.0	131.0	148.0	109.0	125.0	141.0
		62	TC	154.0	154.0	162.0	148.0	148.0	157.0	141.0	141.0	152.0	134.0	134.0	147.0	126.0	126.0	141.0
			SHC	118.0	140.0	162.0	114.0	136.0	157.0	110.0	131.0	152.0	105.0	126.0	147.0	100.0	121.0	141.0
		67	TC	170.0	170.0	170.0	162.0	162.0	162.0	154.0	154.0	154.0	145.0	145.0	145.0	135.0	135.0	135.0
			SHC	98.0	121.0	144.0	94.0	118.0	141.0	91.0	114.0	138.0	87.0	111.0	134.0	83.6	107.0	130.0
		72	TC	187.0	187.0	187.0	179.0	179.0	179.0	170.0	170.0	170.0	160.0	160.0	160.0	149.0	149.0	149.0
			SHC	73.9	97.0	121.0	70.8	94.0	118.0	67.5	91.0	114.0	64.0	87.0	111.0	60.2	83.6	107.0
		76	TC	—	202.0	202.0	—	192.0	192.0	—	183.0	183.0	—	172.0	172.0	—	—	—
			SHC	—	78.3	102.0	—	75.2	99.0	—	71.8	96.0	—	68.3	92.0	—	—	—
5250 (cfm)	EA (wb)	58	TC	157.0	157.0	177.0	151.0	151.0	171.0	145.0	145.0	163.0	138.0	138.0	156.0	130.0	130.0	147.0
			SHC	137.0	157.0	177.0	132.0	151.0	171.0	126.0	145.0	163.0	120.0	138.0	156.0	113.0	130.0	147.0
		62	TC	161.0	161.0	174.0	154.0	154.0	169.0	147.0	147.0	164.0	139.0	139.0	158.0	130.0	130.0	152.0
			SHC	125.0	149.0	174.0	121.0	145.0	169.0	117.0	140.0	164.0	112.0	135.0	158.0	107.0	129.0	152.0
		67	TC	174.0	174.0	174.0	166.0	166.0	166.0	157.0	157.0	157.0	148.0	148.0	148.0	138.0	138.0	142.0
			SHC	104.0	130.0	157.0	100.0	127.0	154.0	97.0	124.0	150.0	93.0	120.0	146.0	89.0	116.0	142.0
		72	TC	192.0	192.0	192.0	183.0	183.0	183.0	173.0	173.0	173.0	163.0	163.0	163.0	152.0	152.0	152.0
			SHC	76.2	103.0	130.0	73.0	100.0	127.0	69.6	97.0	123.6	66.1	93.0	120.0	62.3	89.0	116.0
		76	TC	—	206.0	206.0	—	197.0	197.0	—	186.0	186.0	—	—	—	—	—	—
			SHC	—	81.0	108.0	—	77.8	105.0	—	74.4	102.0	—	—	—	—	—	—
6000 (cfm)	EA (wb)	58	TC	164.0	164.0	185.0	157.0	157.0	178.0	151.0	151.0	170.0	143.0	143.0	161.0	135.0	135.0	152.0
			SHC	143.0	164.0	185.0	137.0	157.0	178.0	131.0	151.0	170.0	125.0	143.0	161.0	118.0	135.0	152.0
		62	TC	165.0	165.0	185.0	158.0	158.0	180.0	151.0	151.0	175.0	143.0	143.0	168.0	135.0	135.0	158.0
			SHC	132.0	159.0	185.0	128.0	154.0	180.0	124.0	149.0	175.0	119.0	143.0	168.0	112.0	135.0	158.0
		67	TC	178.0	178.0	178.0	169.0	169.0	169.0	160.0	160.0	162.0	151.0	151.0	158.0	141.0	141.0	150.0
			SHC	109.0	139.0	170.0	106.0	136.0	166.0	102.0	132.0	162.0	98.0	128.0	158.0	93.0	122.0	150.0
		72	TC	195.0	195.0	195.0	186.0	186.0	186.0	176.0	176.0	176.0	165.0	165.0	165.0	154.0	154.0	154.0
			SHC	78.2	109.0	139.0	74.9	105.0	136.0	71.5	102.0	132.0	68.0	98.0	129.0	64.1	95.0	125.0
		76	TC	—	210.0	210.0	—	—	—	—	—	—	—	—	—	—	—	—
			SHC	—	83.3	114.0	—	—	—	—	—	—	—	—	—	—	—	—
6750 (cfm)	EA (wb)	58	TC	169.0	169.0	191.0	162.0	162.0	183.0	155.0	155.0	175.0	147.0	147.0	166.0	139.0	139.0	157.0
			SHC	147.0	169.0	191.0	142.0	162.0	183.0	135.0	155.0	175.0	128.0	147.0	166.0	121.0	139.0	157.0
		62	TC	170.0	170.0	196.0	162.0	162.0	190.0	155.0	155.0	182.0	148.0	148.0	173.0	139.0	139.0	163.0
			SHC	139.0	167.0	196.0	135.0	162.0	190.0	129.0	155.0	182.0	122.0	148.0	173.0	115.0	139.0	163.0
		67	TC	180.0	180.0	181.0	172.0	172.0	178.0	162.0	162.0	173.0	153.0	153.0	166.0	143.0	143.0	158.0
			SHC	115.0	148.0	181.0	111.0	144.0	178.0	107.0	140.0	173.0	102.0	134.0	166.0	97.0	128.0	158.0
		72	TC	198.0	198.0	198.0	188.0	188.0	188.0	178.0	178.0	178.0	167.0	167.0	167.0	156.0	156.0	156.0
			SHC	79.9	114.0	148.0	76.7	111.0	144.0	73.3	107.0	141.0	69.7	104.0	137.0	65.9	100.0	133.0
		76	TC	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
			SHC	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

LEGEND

EA (db) — Entering Air Temperature (dry bulb)
 EA (wb) — Entering Air Temperature (wet bulb)
 SHC — Sensible Cooling Capacity, Gross (1000 Btuh)
 TC — Total Cooling Capacity, Gross (1000 Btuh)

38AXQ16/40RLQ16 Stage 1 Cooling Combination Ratings

38AXQ16/40RLQ16				AMBIENT TEMPERATURE (°F)														
				85			95			105			115			125		
				EA (db)			EA (db)			EA (db)			EA (db)			EA (db)		
				75	80	85	75	80	85	75	80	85	75	80	85	75	80	85
3750 (cfm)	EA (wb)	58	TC	62.0	62.0	77.0	60.0	60.0	74.0	76.0	76.0	76.0	54.0	54.0	67.0	51.0	51.0	63.0
			SHC	47.0	62.0	77.0	45.0	60.0	74.0	35.0	56.0	76.0	41.0	54.0	67.0	39.0	51.0	63.0
		62	TC	63.0	63.0	77.0	60.0	60.0	75.0	57.0	57.0	73.0	54.0	54.0	70.0	66.0	66.0	78.0
			SHC	42.0	59.0	77.0	40.0	57.0	75.0	38.0	56.0	73.0	37.0	54.0	70.0	43.0	61.0	78.0
		67	TC	69.0	69.0	69.0	67.0	67.0	68.0	76.0	76.0	76.0	75.0	75.0	75.0	54.0	54.0	63.0
			SHC	32.0	50.0	68.0	31.0	49.0	68.0	35.3	53.0	71.0	34.6	53.0	71.0	26.2	44.0	63.0
		72	TC	75.0	75.0	75.0	71.0	71.0	71.0	67.0	67.0	67.0	81.0	81.0	81.0	59.0	59.0	59.0
			SHC	21.5	41.0	61.0	20.1	40.0	60.0	18.7	38.4	58.0	24.1	42.9	62.0	16.0	34.5	53.0
		76	TC	—	80.0	80.0	—	76.0	76.0	—	72.0	72.0	—	68.0	68.0	—	63.0	63.0
			SHC	—	32.6	53.0	—	31.1	52.0	—	29.9	51.0	—	27.1	42.0	—	26.3	45.0
4500 (cfm)	EA (wb)	58	TC	65.0	65.0	80.0	62.0	62.0	77.0	81.0	81.0	82.0	56.0	56.0	69.0	52.0	52.0	65.0
			SHC	49.0	65.0	80.0	47.0	62.0	77.0	32.0	57.0	82.0	42.0	56.0	69.0	40.0	52.0	65.0
		62	TC	65.0	65.0	84.0	63.0	63.0	73.0	59.0	59.0	78.0	56.0	56.0	74.0	69.0	69.0	87.0
			SHC	44.0	64.0	84.0	40.0	57.0	73.0	40.0	59.0	78.0	38.0	56.0	74.0	46.0	66.0	87.0
		67	TC	71.0	71.0	76.0	67.0	67.0	74.0	64.0	64.0	73.0	60.0	60.0	72.0	55.0	55.0	69.0
			SHC	33.0	54.0	76.0	32.0	53.0	74.0	30.0	52.0	73.0	29.0	51.0	72.0	27.0	48.0	69.0
		72	TC	77.0	77.0	77.0	73.0	73.0	73.0	69.0	69.0	69.0	65.0	65.0	65.0	60.0	60.0	60.0
			SHC	20.6	44.0	68.0	19.2	43.0	67.0	17.8	41.0	65.0	16.8	39.0	61.0	15.2	36.8	58.4
		76	TC	—	82.0	82.0	—	78.0	78.0	—	74.0	74.0	—	68.0	68.0	—	64.0	64.0
			SHC	—	33.8	58.0	—	32.3	56.0	—	30.8	54.0	—	28.2	50.0	—	26.8	48.0
5250 (cfm)	EA (wb)	58	TC	67.0	67.0	83.0	64.0	64.0	80.0	61.0	61.0	76.0	58.0	58.0	72.0	54.0	54.0	67.0
			SHC	51.0	67.0	83.0	49.0	64.0	80.0	46.0	61.0	76.0	44.0	58.0	72.0	41.0	54.0	67.0
		62	TC	68.0	68.0	83.0	64.0	64.0	85.0	88.0	88.0	88.0	72.0	72.0	95.0	71.0	71.0	93.0
			SHC	44.0	64.0	83.0	43.0	64.0	85.0	29.0	58.0	86.0	49.0	72.0	95.0	48.0	71.0	93.0
		67	TC	72.0	72.0	83.0	68.0	68.0	82.0	64.0	64.0	81.0	60.0	60.0	77.0	55.0	55.0	74.0
			SHC	34.0	59.0	83.0	33.0	57.0	82.0	31.0	56.0	81.0	29.0	53.0	77.0	27.0	51.0	74.0
		72	TC	78.0	78.0	78.0	74.0	74.0	74.0	95.0	95.0	95.0	66.0	66.0	66.0	61.0	61.0	64.0
			SHC	20.5	45.0	68.0	19.2	43.0	67.0	15.1	44.0	72.8	16.0	41.0	66.0	14.5	39.0	64.0
		76	TC	—	83.0	83.0	—	79.0	79.0	—	75.0	75.0	—	71.0	71.0	—	64.0	64.0
			SHC	—	34.7	61.0	—	33.1	60.0	—	31.4	56.0	—	29.7	54.0	—	27.7	52.0
6000 (cfm)	EA (wb)	58	TC	69.0	69.0	86.0	66.0	66.0	82.0	80.0	80.0	91.0	59.0	59.0	74.0	56.0	56.0	69.0
			SHC	52.0	69.0	86.0	50.0	66.0	82.0	58.0	75.0	91.0	45.0	59.0	74.0	42.0	56.0	69.0
		62	TC	69.0	69.0	91.0	66.0	66.0	87.0	63.0	63.0	83.0	59.0	59.0	79.0	55.0	55.0	73.0
			SHC	47.0	69.0	91.0	44.0	66.0	87.0	42.0	63.0	83.0	40.0	59.0	79.0	37.0	55.0	73.0
		67	TC	73.0	73.0	88.0	69.0	69.0	86.0	65.0	65.0	84.0	61.0	61.0	83.0	77.0	77.0	90.0
			SHC	35.0	61.0	88.0	33.0	60.0	86.0	32.0	58.0	84.0	30.0	57.0	83.0	36.0	63.0	90.0
		72	TC	79.0	79.0	79.0	75.0	75.0	75.0	71.0	71.0	71.0	67.0	67.0	71.0	62.0	62.0	70.0
			SHC	19.8	47.0	73.0	18.4	45.0	72.0	17.0	44.0	70.0	15.3	43.0	71.0	13.9	42.0	70.0
		76	TC	—	85.0	85.0	—	80.0	80.0	—	76.0	76.0	—	70.0	70.0	—	89.0	89.0
			SHC	—	35.2	63.0	—	33.7	62.0	—	32.4	60.0	—	30.9	60.0	—	36.8	66.0
6750 (cfm)	EA (wb)	58	TC	70.0	70.0	88.0	67.0	67.0	84.0	64.0	64.0	80.0	60.0	60.0	75.0	57.0	57.0	71.0
			SHC	53.0	70.0	88.0	51.0	67.0	84.0	48.0	64.0	80.0	46.0	60.0	75.0	43.0	57.0	71.0
		62	TC	71.0	71.0	94.0	67.0	67.0	90.0	64.0	64.0	85.0	61.0	61.0	81.0	56.0	56.0	75.0
			SHC	47.0	71.0	94.0	45.0	67.0	90.0	43.0	64.0	85.0	41.0	61.0	81.0	38.0	56.0	75.0
		67	TC	73.0	73.0	94.0	70.0	70.0	92.0	78.0	78.0	95.0	62.0	62.0	88.0	57.0	57.0	85.0
			SHC	35.0	65.0	94.0	34.0	63.0	92.0	37.0	66.0	95.0	31.0	60.0	88.0	29.0	57.0	85.0
		72	TC	80.0	80.0	80.0	75.0	75.0	76.0	71.0	71.0	75.0	67.0	67.0	78.0	61.0	61.0	73.0
			SHC	19.1	49.0	78.0	17.7	47.0	76.0	16.3	45.0	75.0	14.4	46.0	78.0	12.8	43.0	73.0
		76	TC	—	86.0	86.0	—	81.0	81.0	—	75.0	75.0	—	95.0	95.0	—	67.0	67.0
			SHC	—	36.1	67.0	—	34.8	66.0	—	32.6	63.0	—	37.3	62.0	—	30.3	61.0

LEGEND

EA (db) — Entering Air Temperature (dry bulb)
 EA (wb) — Entering Air Temperature (wet bulb)
 SHC — Sensible Cooling Capacity, Gross (1000 Btuh)
 TC — Total Cooling Capacity, Gross (1000 Btuh)

38AXQ25/40RLQ25 Stage 3 Cooling Combination Ratings

38AXQ25/40RLQ25				AMBIENT TEMPERATURE (°F)														
				85			95			105			115			125		
				EA (db)			EA (db)			EA (db)			EA (db)			EA (db)		
				75	80	85	75	80	85	75	80	85	75	80	85	75	80	85
5000 (cfm)	EA (wb)	58	TC	219.5	219.5	238.2	209.0	209.0	229.0	198.1	198.1	220.2	191.1	191.1	204.5	173.9	173.9	201.6
			SHC	178.6	208.4	238.2	170.6	199.8	229.0	162.7	191.4	220.2	151.2	177.8	204.5	146.2	173.9	201.6
		62	TC	235.1	235.1	235.1	223.3	223.3	223.3	210.7	210.7	210.7	197.2	197.2	200.0	182.9	182.9	192.2
			SHC	161.0	191.2	221.4	154.2	184.4	214.7	147.1	177.4	207.6	139.7	169.9	200.0	131.9	162.0	192.2
		67	TC	256.0	256.0	256.0	243.5	243.5	243.5	230.1	230.1	230.1	215.9	215.9	215.9	200.7	200.7	200.7
			SHC	136.6	166.8	196.9	129.8	159.9	190.1	122.7	152.8	183.0	115.3	145.4	175.6	107.5	137.7	167.8
		72	TC	278.9	278.9	278.9	265.6	265.6	265.6	251.3	251.3	251.3	236.1	236.1	236.1	219.9	219.9	219.9
			SHC	111.6	141.5	171.5	104.7	134.7	164.6	97.5	127.5	157.5	90.1	120.1	150.0	82.3	112.3	142.3
		76	TC	—	298.7	298.7	—	284.6	284.6	—	269.6	269.6	—	253.5	253.5	—	236.4	236.4
			SHC	—	120.7	149.7	—	113.8	143.0	—	106.6	135.9	—	99.1	128.5	—	91.4	120.9
6000 (cfm)	EA (wb)	58	TC	229.4	229.4	257.4	218.6	218.6	248.9	207.6	207.6	238.8	196.3	196.3	226.3	184.2	184.2	212.8
			SHC	192.4	224.9	257.4	184.8	216.8	248.9	176.3	207.6	238.8	166.3	196.3	226.3	155.6	184.2	212.8
		62	TC	242.6	242.6	244.0	230.1	230.1	236.8	216.9	216.9	229.4	203.0	203.0	221.2	188.7	188.7	210.4
			SHC	174.6	209.3	244.0	167.5	202.2	236.8	160.2	194.8	229.4	152.4	186.8	221.2	143.0	176.7	210.4
		67	TC	264.7	264.7	264.7	251.5	251.5	251.5	237.4	237.4	237.4	222.5	222.5	222.5	206.5	206.5	206.5
			SHC	145.2	179.9	214.5	138.2	172.9	207.5	131.0	165.6	200.3	123.5	158.1	192.7	115.7	150.3	184.9
		72	TC	288.6	288.6	288.6	274.6	274.6	274.6	259.6	259.6	259.6	243.6	243.6	243.6	226.6	226.6	226.6
			SHC	115.1	149.5	183.9	108.1	142.5	176.9	100.8	135.2	169.6	93.2	127.6	162.0	85.3	119.7	154.2
		76	TC	—	309.2	309.2	—	294.4	294.4	—	278.6	278.6	—	261.6	261.6	—	243.7	243.7
			SHC	—	124.5	158.0	—	117.5	151.1	—	110.2	143.9	—	102.6	136.4	—	94.7	128.5
7000 (cfm)	EA (wb)	58	TC	238.9	238.9	273.3	228.5	228.5	261.8	217.4	217.4	249.5	205.5	205.5	236.3	192.8	192.8	222.1
			SHC	204.5	238.9	273.3	195.2	228.5	261.8	185.3	217.4	249.5	174.7	205.5	236.3	163.4	192.8	222.1
		62	TC	248.4	248.4	264.8	235.6	235.6	257.0	222.4	222.4	247.2	208.8	208.8	237.0	194.5	194.5	226.1
			SHC	187.0	225.9	264.8	179.6	218.3	257.0	171.0	209.1	247.2	162.2	199.6	237.0	152.9	189.5	226.1
		67	TC	271.4	271.4	271.4	257.7	257.7	257.7	243.1	243.1	243.1	227.6	227.6	227.6	211.1	211.1	211.1
			SHC	153.1	192.1	231.2	146.1	185.2	224.2	138.8	177.9	216.9	131.2	170.3	209.3	123.4	162.4	201.4
		72	TC	296.2	296.2	296.2	281.6	281.6	281.6	266.0	266.0	266.0	249.3	249.3	249.3	231.7	231.7	231.7
			SHC	118.0	156.7	195.4	110.9	149.7	188.4	103.5	142.3	181.0	95.8	134.6	173.4	87.9	126.7	165.4
		76	TC	—	317.4	317.4	—	302.0	302.0	—	285.5	285.5	—	267.9	267.9	—	249.3	249.3
			SHC	—	127.7	165.4	—	120.6	158.4	—	113.2	151.1	—	105.5	143.5	—	97.5	135.6
8000 (cfm)	EA (wb)	58	TC	248.3	248.3	283.6	237.4	237.4	271.5	225.7	225.7	258.6	213.3	213.3	244.8	200.0	200.0	229.9
			SHC	213.0	248.3	283.6	203.2	237.4	271.5	192.9	225.7	258.6	181.8	213.3	244.8	170.0	200.0	229.9
		62	TC	253.7	253.7	281.7	241.2	241.2	272.2	228.2	228.2	262.3	214.3	214.3	251.7	200.1	200.1	238.8
			SHC	197.3	239.5	281.7	189.0	230.6	272.2	180.5	221.4	262.3	171.6	211.7	251.7	161.5	200.1	238.8
		67	TC	276.8	276.8	276.8	262.7	262.7	262.7	247.6	247.6	247.6	231.6	231.6	231.6	214.7	214.7	217.5
			SHC	160.7	204.0	247.3	153.6	196.9	240.3	146.3	189.6	232.9	138.7	182.0	225.3	130.9	174.2	217.5
		72	TC	302.2	302.2	302.2	287.2	287.2	287.2	271.1	271.1	271.1	253.9	253.9	253.9	235.8	235.8	235.8
			SHC	120.5	163.5	206.4	113.3	156.3	199.3	105.9	148.9	191.9	98.1	141.1	184.1	90.1	133.2	176.2
		76	TC	—	324.0	324.0	—	308.0	308.0	—	291.1	291.1	—	272.9	272.9	—	253.8	253.8
			SHC	—	130.3	172.2	—	123.1	165.2	—	115.6	157.7	—	107.9	150.0	—	99.8	142.0
9000 (cfm)	EA (wb)	58	TC	256.4	256.4	292.5	245.1	245.1	279.9	232.9	232.9	266.5	220.0	220.0	252.1	206.1	206.1	236.7
			SHC	220.4	256.4	292.5	210.2	245.1	279.9	199.4	232.9	266.5	187.9	220.0	252.1	175.6	206.1	236.7
		62	TC	259.3	259.3	296.3	246.7	246.7	286.6	233.3	233.3	276.8	220.2	220.2	261.7	206.3	206.3	245.8
			SHC	206.5	251.4	296.3	198.2	242.4	286.6	189.8	233.3	276.8	178.7	220.2	261.7	166.8	206.3	245.8
		67	TC	281.2	281.2	281.2	266.7	266.7	266.7	251.3	251.3	251.3	234.9	234.9	241.0	217.4	217.4	232.8
			SHC	168.0	215.5	263.0	160.9	208.4	255.9	153.6	201.1	248.6	146.0	193.5	241.0	138.0	185.4	232.8
		72	TC	307.2	307.2	307.2	291.7	291.7	291.7	275.2	275.2	275.2	257.7	257.7	257.7	239.1	239.1	239.1
			SHC	122.6	169.7	216.8	115.4	162.5	209.7	107.9	155.1	202.3	100.2	147.3	194.5	92.1	139.3	186.5
		76	TC	—	329.3	329.3	—	313.0	313.0	—	295.6	295.6	—	277.0	277.0	—	257.4	257.4
			SHC	—	132.5	178.5	—	125.2	171.3	—	117.7	163.9	—	109.8	156.1	—	101.7	148.1

LEGEND

EA (db) — Entering Air Temperature (dry bulb)
EA (wb) — Entering Air Temperature (wet bulb)
SHC — Sensible Cooling Capacity, Gross (1000 Btuh)
TC — Total Cooling Capacity, Gross (1000 Btuh)

38AXQ25/40RLQ25 Stage 2 Cooling Combination Ratings

38AXQ25/40RLQ25				AMBIENT TEMPERATURE (°F)														
				85			95			105			115			125		
				EA (db)			EA (db)			EA (db)			EA (db)			EA (db)		
				75	80	85	75	80	85	75	80	85	75	80	85	75	80	85
5000 (cfm)	EA (wb)	58	TC	162.7	162.7	173.5	154.6	154.6	167.2	145.8	145.8	160.6	136.5	136.5	154.2	128.3	128.3	144.9
			SHC	131.4	152.5	173.5	126.0	146.6	167.2	120.5	140.5	160.6	115.1	134.7	154.2	108.7	126.8	144.9
		62	TC	169.1	169.1	169.1	160.4	160.4	160.7	151.2	151.2	153.9	141.5	141.5	146.5	131.0	131.0	138.8
			SHC	120.8	143.5	166.2	116.0	138.4	160.7	110.4	132.2	153.9	104.4	125.5	146.5	98.1	118.5	138.8
		67	TC	183.3	183.3	183.3	173.3	173.3	173.3	162.3	162.3	162.3	150.4	150.4	150.4	137.9	137.9	137.9
			SHC	105.2	128.7	152.2	101.1	124.7	148.3	96.6	120.2	143.8	91.6	115.1	138.6	85.5	108.5	131.5
		72	TC	198.5	198.5	198.5	187.6	187.6	187.6	176.0	176.0	176.0	163.6	163.6	163.6	150.4	150.4	150.4
			SHC	85.9	108.9	131.9	81.8	104.9	128.1	77.4	100.8	124.2	72.8	96.3	119.8	68.0	91.6	115.2
		76	TC	—	212.7	212.7	—	200.2	200.2	—	187.8	187.8	—	175.5	175.5	—	160.6	160.6
			SHC	—	92.5	116.0	—	88.4	109.8	—	84.3	106.6	—	80.3	103.0	—	75.4	98.6
6000 (cfm)	EA (wb)	58	TC	170.0	170.0	191.6	162.4	162.4	185.4	153.9	153.9	175.7	144.9	144.9	165.4	135.1	135.1	154.2
			SHC	144.0	167.8	191.6	139.4	162.4	185.4	132.1	153.9	175.7	124.4	144.9	165.4	115.9	135.1	154.2
		62	TC	176.5	176.5	179.6	167.1	167.1	175.7	159.4	159.4	168.8	146.9	146.9	160.5	135.7	135.7	152.5
			SHC	129.1	154.3	179.6	125.0	150.3	175.7	121.2	145.0	168.8	112.9	136.7	160.5	106.4	129.5	152.5
		67	TC	190.7	190.7	190.7	180.1	180.1	180.1	167.0	167.0	167.0	154.5	154.5	154.5	143.1	143.1	143.1
			SHC	112.5	138.8	165.1	109.3	136.2	163.0	103.3	130.9	158.5	96.7	123.5	150.3	89.9	115.4	141.0
		72	TC	205.0	205.0	205.0	193.8	193.8	193.8	181.7	181.7	181.7	168.6	168.6	168.6	154.5	154.5	154.5
			SHC	88.5	115.9	143.3	84.4	112.0	139.5	80.1	107.7	135.4	75.5	103.3	131.1	70.5	98.4	126.2
		76	TC	—	218.3	218.3	—	206.8	206.8	—	194.0	194.0	—	180.1	180.1	—	165.2	165.2
			SHC	—	95.3	121.1	—	91.6	118.0	—	87.5	114.4	—	83.1	110.3	—	78.5	106.0
7000 (cfm)	EA (wb)	58	TC	178.4	178.4	203.3	170.0	170.0	193.7	160.9	160.9	183.3	151.1	151.1	172.2	140.6	140.6	160.2
			SHC	153.5	178.4	203.3	146.3	170.0	193.7	138.4	160.9	183.3	130.1	151.1	172.2	121.0	140.6	160.2
		62	TC	181.7	181.7	196.2	172.3	172.3	189.2	162.0	162.0	181.9	151.3	151.3	175.2	141.3	141.3	164.6
			SHC	139.0	167.6	196.2	133.3	161.2	189.2	127.4	154.7	181.9	122.1	148.7	175.2	115.2	139.9	164.6
		67	TC	196.0	196.0	196.0	182.2	182.2	182.2	170.3	170.3	170.3	159.2	159.2	159.6	146.5	146.5	152.6
			SHC	122.2	152.0	181.7	114.1	145.7	177.2	107.9	138.7	169.5	101.0	130.3	159.6	95.1	123.9	152.6
		72	TC	209.8	209.8	209.8	198.3	198.3	198.3	185.7	185.7	185.7	173.4	173.4	173.4	158.0	158.0	158.0
			SHC	90.8	122.4	154.0	86.7	118.5	150.2	82.4	114.2	146.0	78.9	109.4	139.9	75.2	106.6	138.0
		76	TC	—	224.2	224.2	—	211.6	211.6	—	198.3	198.3	—	184.0	184.0	—	168.8	168.8
			SHC	—	98.3	128.6	—	94.4	125.1	—	90.2	121.3	—	85.8	117.2	—	81.1	112.7
8000 (cfm)	EA (wb)	58	TC	185.0	185.0	210.5	176.2	176.2	200.5	166.6	166.6	189.6	156.3	156.3	177.9	145.2	145.2	165.3
			SHC	159.5	185.0	210.5	151.9	176.2	200.5	143.7	166.6	189.6	134.8	156.3	177.9	125.2	145.2	165.3
		62	TC	186.1	186.1	209.7	176.6	176.6	203.9	167.0	167.0	196.5	157.1	157.1	181.5	145.4	145.4	171.1
			SHC	147.2	178.4	209.7	142.6	173.3	203.9	137.5	167.0	196.5	127.5	154.5	181.5	119.7	145.4	171.1
		67	TC	196.5	196.5	196.5	185.3	185.3	188.2	174.5	174.5	178.5	162.2	162.2	171.6	149.4	149.4	162.8
			SHC	124.5	159.8	195.1	118.8	153.5	188.2	112.1	145.3	178.5	106.4	139.0	171.6	99.9	131.3	162.8
		72	TC	213.6	213.6	213.6	201.7	201.7	201.7	188.7	188.7	188.7	174.8	174.8	174.8	160.9	160.9	160.9
			SHC	92.9	128.5	164.2	88.8	124.5	160.3	84.4	120.1	155.9	79.8	115.7	151.5	79.5	114.0	148.5
		76	TC	—	227.7	227.7	—	215.4	215.4	—	201.6	201.6	—	187.0	187.0	—	171.3	171.3
			SHC	—	100.5	135.1	—	96.8	131.7	—	92.6	127.8	—	88.2	123.7	—	83.5	119.3
9000 (cfm)	EA (wb)	58	TC	190.5	190.5	216.5	181.6	181.6	206.4	171.4	171.4	194.8	160.8	160.8	182.8	149.1	149.1	169.4
			SHC	164.5	190.5	216.5	156.8	181.6	206.4	148.0	171.4	194.8	138.9	160.8	182.8	128.7	149.1	169.4
		62	TC	191.8	191.8	220.3	181.8	181.8	213.7	171.8	171.8	200.5	160.7	160.7	189.0	149.3	149.3	175.5
			SHC	155.2	187.8	220.3	149.8	181.8	213.7	140.8	170.6	200.5	132.5	160.7	189.0	123.1	149.3	175.5
		67	TC	199.4	199.4	205.9	189.3	189.3	196.6	177.5	177.5	189.0	165.0	165.0	181.8	151.9	151.9	172.7
			SHC	129.1	167.5	205.9	122.7	159.6	196.6	116.9	152.9	189.0	111.2	146.5	181.8	104.6	138.6	172.7
		72	TC	216.6	216.6	216.6	204.4	204.4	204.4	191.1	191.1	191.1	177.0	177.0	177.0	163.3	163.3	163.3
			SHC	94.7	134.3	173.9	90.6	130.3	170.0	86.3	126.0	165.6	83.3	122.9	162.5	83.7	121.3	158.8
		76	TC	—	230.9	230.9	—	218.3	218.3	—	204.4	204.4	—	189.4	189.4	—	173.4	173.4
			SHC	—	102.6	141.3	—	98.9	137.8	—	94.8	134.0	—	90.3	129.8	—	85.7	125.4

LEGEND

EA (db) — Entering Air Temperature (dry bulb)
 EA (wb) — Entering Air Temperature (wet bulb)
 SHC — Sensible Cooling Capacity, Gross (1000 Btuh)
 TC — Total Cooling Capacity, Gross (1000 Btuh)

38AXQ25/40RLQ25 Stage 1 Cooling Combination Ratings

38AXQ25/40RLQ25				AMBIENT TEMPERATURE (°F)														
				85			95			105			115			125		
				EA (db)			EA (db)			EA (db)			EA (db)			EA (db)		
				75	80	85	75	80	85	75	80	85	75	80	85	75	80	85
5000 (cfm)	EA (wb)	58	TC	84.6	84.6	104.0	80.8	80.8	99.4	76.7	76.7	94.3	72.1	72.1	88.7	67.1	67.1	82.6
			SHC	65.2	84.6	104.0	62.3	80.8	99.4	59.0	76.7	94.3	55.4	72.1	88.7	51.6	67.1	82.6
		62	TC	82.9	82.9	102.2	79.2	79.2	101.3	76.7	76.7	98.9	72.1	72.1	93.0	67.1	67.1	86.5
			SHC	52.9	77.6	102.2	52.8	77.0	101.3	54.6	76.7	98.9	51.3	72.1	93.0	47.7	67.1	86.5
		67	TC	88.0	88.0	89.8	83.5	83.5	87.9	78.4	78.4	85.9	72.9	72.9	84.0	67.1	67.1	82.1
			SHC	39.4	64.6	89.8	37.6	62.8	87.9	35.6	60.7	85.9	33.7	58.8	84.0	32.1	57.1	82.1
		72	TC	95.0	95.0	95.0	90.3	90.3	90.3	85.0	85.0	85.0	79.1	79.1	79.1	72.7	72.7	72.7
			SHC	28.6	53.9	79.2	26.8	52.1	77.4	24.8	50.1	75.4	22.7	48.0	73.2	20.4	45.7	70.9
		76	TC	—	101.1	101.1	—	96.1	96.1	—	90.6	90.6	—	84.5	84.5	—	77.8	77.8
			SHC	—	45.1	70.6	—	43.3	68.8	—	41.3	66.8	—	39.2	64.7	—	36.9	62.3
6000 (cfm)	EA (wb)	58	TC	89.3	89.3	108.8	85.3	85.3	103.9	80.8	80.8	98.5	75.9	75.9	92.5	70.5	70.5	86.0
			SHC	69.8	89.3	108.8	66.7	85.3	103.9	63.1	80.8	98.5	59.2	75.9	92.5	55.0	70.5	86.0
		62	TC	89.4	89.4	114.1	85.4	85.4	109.0	80.9	80.9	103.3	75.9	75.9	97.0	70.5	70.5	90.1
			SHC	64.7	89.4	114.1	61.8	85.4	109.0	58.5	80.9	103.3	54.9	75.9	97.0	51.0	70.5	90.1
		67	TC	90.8	90.8	101.1	86.1	86.1	99.6	80.9	80.9	98.1	75.4	75.4	96.6	69.7	69.7	95.2
			SHC	42.0	71.6	101.1	40.7	70.2	99.6	39.4	68.7	98.1	38.5	67.5	96.6	38.6	66.9	95.2
		72	TC	98.2	98.2	98.2	93.2	93.2	93.2	87.6	87.6	87.6	81.4	81.4	81.5	74.7	74.7	79.1
			SHC	28.1	57.7	87.4	26.3	56.0	85.6	24.3	54.0	83.7	22.2	51.8	81.5	19.9	49.5	79.1
		76	TC	—	104.5	104.5	—	99.4	99.4	—	93.5	93.5	—	87.1	87.1	—	79.9	79.9
			SHC	—	46.4	76.3	—	44.7	74.6	—	42.8	72.6	—	40.6	70.5	—	38.2	68.0
7000 (cfm)	EA (wb)	58	TC	92.9	92.9	112.4	88.7	88.7	107.3	83.9	83.9	101.6	78.7	78.7	95.3	73.0	73.0	88.5
			SHC	73.4	92.9	112.4	70.0	88.7	107.3	66.3	83.9	101.6	62.1	78.7	95.3	57.6	73.0	88.5
		62	TC	93.0	93.0	117.9	88.8	88.8	112.5	84.0	84.0	106.6	78.8	78.8	100.0	73.1	73.1	92.8
			SHC	68.1	93.0	117.9	65.0	88.8	112.5	61.5	84.0	106.6	57.6	78.8	100.0	53.4	73.1	92.8
		67	TC	93.3	93.3	113.9	88.6	88.6	112.6	83.4	83.4	111.2	78.6	78.6	109.0	73.2	73.2	101.0
			SHC	47.2	80.6	113.9	46.5	79.5	112.6	46.2	78.7	111.2	48.2	78.6	109.0	45.4	73.2	101.0
		72	TC	100.6	100.6	100.6	95.4	95.4	95.4	89.6	89.6	91.9	83.2	83.2	89.8	76.2	76.2	87.4
			SHC	27.9	61.7	95.6	26.1	60.0	93.8	24.2	58.1	91.9	22.2	56.0	89.8	20.0	53.7	87.4
		76	TC	—	107.2	107.2	—	101.8	101.8	—	95.7	95.7	—	89.1	89.1	—	81.6	81.6
			SHC	—	47.7	81.7	—	45.9	80.0	—	44.0	78.1	—	41.9	75.9	—	39.5	73.5
8000 (cfm)	EA (wb)	58	TC	95.8	95.8	115.3	91.4	91.4	110.0	86.5	86.5	104.1	81.0	81.0	97.6	75.1	75.1	90.4
			SHC	76.3	95.8	115.3	72.8	91.4	110.0	68.8	86.5	104.1	64.5	81.0	97.6	59.7	75.1	90.4
		62	TC	95.9	95.9	120.9	91.5	91.5	115.3	86.5	86.5	109.1	81.1	81.1	102.3	75.1	75.1	94.8
			SHC	70.8	95.9	120.9	67.6	91.5	115.3	63.9	86.5	109.1	59.8	81.1	102.3	55.4	75.1	94.8
		67	TC	95.5	95.5	126.4	91.0	91.0	124.7	86.6	86.6	118.8	81.1	81.1	111.3	75.2	75.2	103.2
			SHC	54.0	90.2	126.4	54.4	89.6	124.7	54.4	86.6	118.8	50.9	81.1	111.3	47.2	75.2	103.2
		72	TC	102.3	102.3	103.5	97.0	97.0	101.8	91.0	91.0	100.0	84.4	84.4	97.9	77.3	77.3	95.9
			SHC	27.8	65.7	103.5	26.2	64.0	101.8	24.3	62.1	100.0	22.4	60.2	97.9	20.6	58.2	95.9
		76	TC	—	109.1	109.1	—	103.6	103.6	—	97.4	97.4	—	90.5	90.5	—	82.9	82.9
			SHC	—	48.6	86.6	—	46.9	84.9	—	45.0	83.0	—	42.9	80.9	—	40.6	78.5
9000 (cfm)	EA (wb)	58	TC	98.1	98.1	117.6	93.6	93.6	112.2	88.5	88.5	106.1	82.9	82.9	99.4	76.7	76.7	92.0
			SHC	78.7	98.1	117.6	75.0	93.6	112.2	70.9	88.5	106.1	66.4	82.9	99.4	61.4	76.7	92.0
		62	TC	98.2	98.2	123.3	93.7	93.7	117.6	88.6	88.6	111.2	82.9	82.9	104.1	76.8	76.8	96.4
			SHC	73.2	98.2	123.3	69.7	93.7	117.6	65.9	88.6	111.2	61.7	82.9	104.1	57.1	76.8	96.4
		67	TC	98.3	98.3	134.1	93.8	93.8	128.0	88.6	88.6	121.0	83.0	83.0	113.3	76.8	76.8	105.0
			SHC	62.4	98.3	134.1	59.5	93.8	128.0	56.3	88.6	121.0	52.6	83.0	113.3	48.7	76.8	105.0
		72	TC	103.6	103.6	111.2	98.2	98.2	109.6	92.1	92.1	107.7	85.4	85.4	106.1	78.2	78.2	104.5
			SHC	27.8	69.5	111.2	26.2	67.9	109.6	24.5	66.1	107.7	23.1	64.6	106.1	22.3	63.4	104.5
		76	TC	—	110.6	110.6	—	105.0	105.0	—	98.6	98.6	—	91.6	91.6	—	83.8	83.8
			SHC	—	49.0	90.9	—	47.3	89.2	—	45.4	87.3	—	43.4	85.2	—	41.2	83.0

LEGEND

EA (db) — Entering Air Temperature (dry bulb)
 EA (wb) — Entering Air Temperature (wet bulb)
 SHC — Sensible Cooling Capacity, Gross (1000 Btuh)
 TC — Total Cooling Capacity, Gross (1000 Btuh)

38AXQ28/40RLQ28 Stage 3 Cooling Combination Ratings

38AXQ28/40RLQ28				AMBIENT TEMPERATURE (°F)														
				85			95			105			115			125		
				EA (db)			EA (db)			EA (db)			EA (db)			EA (db)		
				75	80	85	75	80	85	75	80	85	75	80	85	75	80	85
7500 (cfm)	EA (wb)	58	TC	266.0	266.0	292.2	255.4	255.4	284.4	243.7	243.7	276.0	231.2	231.2	265.7	—	—	—
			SHC	218.7	255.4	292.2	212.0	248.2	284.4	204.8	240.4	276.0	196.7	231.2	265.7	—	—	—
		62	TC	285.1	285.1	285.1	272.4	272.4	272.4	258.5	258.5	262.4	243.1	243.1	255.3	226.8	226.8	247.5
			SHC	198.6	236.7	274.7	192.9	230.9	268.9	186.5	224.5	262.4	179.5	217.4	255.3	172.1	209.8	247.5
		67	TC	311.7	311.7	311.7	298.0	298.0	298.0	283.0	283.0	283.0	266.3	266.3	266.3	248.8	248.8	248.8
			SHC	168.6	206.8	244.9	162.9	201.1	239.2	156.7	194.9	233.0	150.0	188.1	226.2	143.0	181.1	219.2
		72	TC	340.0	340.0	340.0	325.1	325.1	325.1	308.8	308.8	308.8	290.8	290.8	290.8	—	—	—
			SHC	137.2	175.6	214.0	131.5	169.9	208.3	125.4	163.8	202.1	118.7	157.0	195.4	—	—	—
76	TC	—	363.9	363.9	—	348.0	348.0	—	330.5	330.5	—	311.3	311.3	—	—	—		
	SHC	—	149.7	188.9	—	144.1	183.1	—	138.0	176.9	—	131.3	170.1	—	—	—		
8750 (cfm)	EA (wb)	58	TC	279.2	279.2	317.3	268.6	268.6	307.8	257.4	257.4	295.0	245.0	245.0	280.8	231.7	231.7	265.5
			SHC	236.8	277.1	317.3	229.4	268.6	307.8	219.9	257.4	295.0	209.3	245.0	280.8	197.9	231.7	265.5
		62	TC	294.5	294.5	302.8	281.2	281.2	296.4	266.5	266.5	289.2	250.5	250.5	280.5	234.4	234.4	268.5
			SHC	215.6	259.2	302.8	209.4	252.9	296.4	202.6	245.9	289.2	194.8	237.6	280.5	185.1	226.8	268.5
		67	TC	321.9	321.9	321.9	307.4	307.4	307.4	291.5	291.5	291.5	273.8	273.8	273.8	255.4	255.4	255.4
			SHC	180.1	223.9	267.8	174.2	218.0	261.9	167.8	211.6	255.5	160.8	204.6	248.5	153.6	197.5	241.3
		72	TC	351.0	351.0	351.0	335.2	335.2	335.2	317.9	317.9	317.9	298.8	298.8	298.8	—	—	—
			SHC	142.7	186.9	231.0	136.9	181.0	225.1	130.6	174.7	218.7	123.7	167.8	211.8	—	—	—
76	TC	—	375.5	375.5	—	358.5	358.5	—	340.0	340.0	—	319.8	319.8	—	—	—		
	SHC	—	156.3	201.1	—	150.4	195.2	—	144.1	188.8	—	137.4	181.9	—	—	—		
10000 (cfm)	EA (wb)	58	TC	292.5	292.5	334.5	281.7	281.7	322.1	269.7	269.7	308.4	256.3	256.3	293.1	242.1	242.1	276.8
			SHC	250.6	292.5	334.5	241.3	281.7	322.1	231.0	269.7	308.4	219.5	256.3	293.1	207.4	242.1	276.8
		62	TC	302.1	302.1	328.4	288.3	288.3	320.8	273.8	273.8	309.7	258.3	258.3	298.9	242.3	242.3	287.2
			SHC	230.9	279.6	328.4	224.1	272.4	320.8	215.1	262.4	309.7	206.4	252.6	298.9	197.4	242.3	287.2
		67	TC	329.8	329.8	329.8	314.6	314.6	314.6	297.8	297.8	297.8	279.4	279.4	279.4	260.2	260.2	262.1
			SHC	190.7	240.1	289.6	184.6	234.1	283.5	178.1	227.5	276.9	170.9	220.3	269.7	163.5	212.8	262.1
		72	TC	359.4	359.4	359.4	342.8	342.8	342.8	324.7	324.7	324.7	304.9	304.9	304.9	—	—	—
			SHC	147.6	197.3	247.1	141.7	191.4	241.0	135.2	184.9	234.5	128.2	177.8	227.5	—	—	—
76	TC	—	384.3	384.3	—	366.6	366.6	—	347.2	347.2	—	—	—	—	—	—		
	SHC	—	162.2	212.6	—	156.2	206.5	—	149.8	200.0	—	—	—	—	—	—		
11250 (cfm)	EA (wb)	58	TC	304.2	304.2	347.3	292.7	292.7	334.1	279.9	279.9	319.6	265.7	265.7	303.3	250.7	250.7	286.2
			SHC	261.1	304.2	347.3	251.3	292.7	334.1	240.3	279.9	319.6	228.1	265.7	303.3	215.2	250.7	286.2
		62	TC	309.0	309.0	348.5	295.8	295.8	338.7	282.6	282.6	322.9	265.9	265.9	314.8	250.9	250.9	297.0
			SHC	243.1	295.8	348.5	235.2	287.0	338.7	224.7	273.8	322.9	217.1	265.9	314.8	204.9	250.9	297.0
		67	TC	335.9	335.9	335.9	320.1	320.1	320.1	302.8	302.8	302.8	283.8	283.8	289.8	264.2	264.2	281.8
			SHC	200.7	255.5	310.4	194.5	249.4	304.2	187.7	242.5	297.4	180.3	235.1	289.8	172.7	227.3	281.8
		72	TC	366.0	366.0	366.0	348.9	348.9	348.9	330.1	330.1	330.1	309.7	309.7	309.7	—	—	—
			SHC	152.1	207.3	262.4	146.0	201.2	256.3	139.5	194.6	249.7	132.3	187.4	242.5	—	—	—
76	TC	—	391.3	391.3	—	372.9	372.9	—	—	—	—	—	—	—	—	—		
	SHC	—	167.6	223.5	—	161.6	217.4	—	—	—	—	—	—	—	—	—		
12500 (cfm)	EA (wb)	58	TC	314.1	314.1	358.1	302.0	302.0	344.3	288.6	288.6	329.0	273.6	273.6	311.9	257.9	257.9	294.0
			SHC	270.1	314.1	358.1	259.7	302.0	344.3	248.2	288.6	329.0	235.3	273.6	311.9	221.8	257.9	294.0
		62	TC	316.3	316.3	366.2	302.5	302.5	357.0	288.8	288.8	341.4	273.8	273.8	323.7	258.1	258.1	305.1
			SHC	254.4	310.3	366.2	246.9	302.0	357.0	236.2	288.8	341.4	224.0	273.8	323.7	211.1	258.1	305.1
		67	TC	340.9	340.9	340.9	324.6	324.6	324.6	306.8	306.8	316.9	287.4	287.4	308.8	—	—	—
			SHC	210.1	270.3	330.5	203.7	263.9	324.0	196.8	256.8	316.9	189.2	249.0	308.8	—	—	—
		72	TC	371.4	371.4	371.4	353.7	353.7	353.7	334.4	334.4	334.4	313.5	313.5	313.5	—	—	—
			SHC	156.3	216.8	277.3	150.1	210.5	271.0	143.4	203.9	264.3	136.2	196.6	257.0	—	—	—
76	TC	—	396.9	396.9	—	—	—	—	—	—	—	—	—	—	—	—		
	SHC	—	172.8	234.0	—	—	—	—	—	—	—	—	—	—	—	—		

LEGEND

EA (db) — Entering Air Temperature (dry bulb)
 EA (wb) — Entering Air Temperature (wet bulb)
 SHC — Sensible Cooling Capacity, Gross (1000 Btuh)
 TC — Total Cooling Capacity, Gross (1000 Btuh)

38AXQ28/40RLQ28 Stage 2 Cooling Combination Ratings

38AXQ28/40RLQ28				AMBIENT TEMPERATURE (°F)														
				85			95			105			115			125		
				EA (db)			EA (db)			EA (db)			EA (db)			EA (db)		
				75	80	85	75	80	85	75	80	85	75	80	85	75	80	85
6250 (cfm)	EA (wb)	58	TC	230.4	230.4	242.6	220.7	220.7	235.4	210.0	210.0	227.6	198.0	198.0	219.2	—	—	—
			SHC	183.0	212.8	242.6	176.8	206.1	235.4	170.1	198.9	227.6	162.9	191.0	219.2	—	—	—
		62	TC	243.5	243.5	243.5	232.1	232.1	232.1	219.5	219.5	222.1	206.3	206.3	212.6	—	—	—
			SHC	169.6	202.0	234.3	164.2	196.5	228.7	158.0	190.0	222.1	150.2	181.4	212.6	—	—	—
		67	TC	265.9	265.9	265.9	253.7	253.7	253.7	240.3	240.3	240.3	225.4	225.4	225.4	209.5	209.5	209.5
			SHC	145.0	177.6	210.2	139.9	172.5	205.1	134.3	166.9	199.5	128.2	160.8	193.3	121.8	154.3	186.9
		72	TC	289.4	289.4	289.4	276.3	276.3	276.3	261.8	261.8	261.8	245.8	245.8	245.8	228.8	228.8	228.8
			SHC	118.9	151.7	184.5	113.8	146.6	179.3	108.3	141.0	173.8	102.3	135.0	167.7	96.0	128.7	161.4
		76	TC	—	309.5	309.5	—	—	—	—	—	—	—	—	—	—	—	—
			SHC	—	130.1	163.6	—	—	—	—	—	—	—	—	—	—	—	—
7500 (cfm)	EA (wb)	58	TC	243.4	243.4	267.0	232.9	232.9	259.5	221.5	221.5	251.6	210.1	210.1	240.9	197.8	197.8	226.8
			SHC	200.3	233.7	267.0	193.9	226.7	259.5	187.2	219.4	251.6	179.2	210.1	240.9	168.7	197.8	226.8
		62	TC	253.2	253.2	258.6	242.2	242.2	250.5	230.0	230.0	241.7	216.6	216.6	232.3	202.0	202.0	222.3
			SHC	184.5	221.5	258.6	177.8	214.2	250.5	170.5	206.1	241.7	162.7	197.5	232.3	154.5	188.4	222.3
		67	TC	276.6	276.6	276.6	263.4	263.4	263.4	248.9	248.9	248.9	233.0	233.0	233.0	216.1	216.1	216.1
			SHC	157.0	195.6	234.3	151.6	190.2	228.8	145.7	184.3	222.9	139.3	177.8	216.4	132.6	171.0	209.4
		72	TC	301.1	301.1	301.1	286.9	286.9	286.9	271.4	271.4	271.4	—	—	—	—	—	—
			SHC	124.7	163.5	202.4	119.4	158.2	197.1	113.7	152.5	191.3	—	—	—	—	—	—
		76	TC	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
			SHC	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8750 (cfm)	EA (wb)	58	TC	254.2	254.2	291.0	244.7	244.7	279.9	233.6	233.6	267.2	221.2	221.2	253.1	208.0	208.0	237.9
			SHC	217.4	254.2	291.0	209.5	244.7	279.9	200.0	233.6	267.2	189.4	221.2	253.1	178.0	208.0	237.9
		62	TC	263.6	263.6	278.0	251.8	251.8	269.6	238.8	238.8	260.6	224.5	224.5	250.8	209.2	209.2	240.5
			SHC	196.7	237.3	278.0	189.8	229.7	269.6	182.3	221.4	260.6	174.2	212.5	250.8	165.9	203.2	240.5
		67	TC	284.2	284.2	284.2	270.3	270.3	270.3	255.1	255.1	255.1	238.4	238.4	238.4	220.9	220.9	229.1
			SHC	167.8	212.2	256.7	162.1	206.5	250.9	156.0	200.3	244.6	149.3	193.4	237.4	141.8	185.4	229.1
		72	TC	309.6	309.6	309.6	294.6	294.6	294.6	—	—	—	—	—	—	—	—	—
			SHC	129.7	174.4	219.1	124.2	168.9	213.7	—	—	—	—	—	—	—	—	—
		76	TC	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
			SHC	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10000 (cfm)	EA (wb)	58	TC	266.2	266.2	303.9	255.4	255.4	291.6	243.5	243.5	278.0	230.3	230.3	263.0	216.2	216.2	246.8
			SHC	228.4	266.2	303.9	219.2	255.4	291.6	209.0	243.5	278.0	197.7	230.3	263.0	185.5	216.2	246.8
		62	TC	271.8	271.8	296.6	259.4	259.4	288.0	245.9	245.9	278.7	231.0	231.0	268.9	216.4	216.4	256.0
			SHC	208.2	252.4	296.6	201.2	244.6	288.0	193.6	236.1	278.7	185.7	227.3	268.9	176.7	216.4	256.0
		67	TC	289.9	289.9	289.9	275.5	275.5	275.5	259.8	259.8	264.2	242.6	242.6	254.0	225.8	225.8	241.9
			SHC	177.7	227.7	277.6	171.8	221.6	271.4	165.2	214.7	264.2	157.0	205.5	254.0	147.9	194.9	241.9
		72	TC	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
			SHC	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		76	TC	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
			SHC	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11250 (cfm)	EA (wb)	58	TC	275.7	275.7	314.3	264.2	264.2	301.3	251.7	251.7	287.0	237.8	237.8	271.1	222.9	222.9	254.2
			SHC	237.0	275.7	314.3	227.2	264.2	301.3	216.5	251.7	287.0	204.5	237.8	271.1	191.7	222.9	254.2
		62	TC	278.6	278.6	314.5	265.8	265.8	305.6	252.0	252.0	296.1	238.0	238.0	281.2	223.1	223.1	263.6
			SHC	219.4	266.9	314.5	212.3	259.0	305.6	204.9	250.5	296.1	194.8	238.0	281.2	182.6	223.1	263.6
		67	TC	294.6	294.6	297.0	279.8	279.8	289.6	264.0	264.0	278.3	247.5	247.5	266.9	—	—	—
			SHC	186.7	241.9	297.0	180.2	234.9	289.6	171.7	225.0	278.3	163.1	215.0	266.9	—	—	—
		72	TC	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
			SHC	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		76	TC	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
			SHC	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

LEGEND

EA (db) — Entering Air Temperature (dry bulb)
 EA (wb) — Entering Air Temperature (wet bulb)
 SHC — Sensible Cooling Capacity, Gross (1000 Btu/h)
 TC — Total Cooling Capacity, Gross (1000 Btu/h)

38AXQ28/40RLQ28 Stage 1 Cooling Combination Ratings

38AXQ28/40RLQ28				AMBIENT TEMPERATURE (°F)														
				85			95			105			115			125		
				EA (db)			EA (db)			EA (db)			EA (db)			EA (db)		
				75	80	85	75	80	85	75	80	85	75	80	85	75	80	85
5000 (cfm)	EA (wb)	58	TC	115.5	115.5	130.9	110.1	110.1	124.9	104.4	104.4	118.4	98.2	98.2	111.3	91.0	91.0	103.2
			SHC	100.0	115.5	130.9	95.4	110.1	124.9	90.4	104.4	118.4	85.1	98.2	111.3	78.8	91.0	103.2
		62	TC	102.1	102.1	143.0	98.6	98.6	124.1	93.3	93.3	130.7	88.4	88.4	123.8	82.7	82.7	115.8
			SHC	61.3	102.1	143.0	56.7	90.4	124.1	56.0	93.3	130.7	53.0	88.4	123.8	49.6	82.7	115.8
		67	TC	104.4	104.4	141.2	100.0	100.0	135.2	95.3	95.3	128.8	90.2	90.2	121.9	83.9	83.9	113.5
			SHC	67.7	104.4	141.2	64.8	100.0	135.2	61.7	95.3	128.8	58.4	90.2	121.9	54.4	83.9	113.5
		72	TC	106.2	106.2	139.9	101.7	101.7	133.9	96.8	96.8	127.5	91.5	91.5	120.6	85.3	85.3	112.4
			SHC	72.5	106.2	139.9	69.4	101.7	133.9	66.1	96.8	127.5	62.5	91.5	120.6	58.2	85.3	112.4
		76	TC	—	109.4	138.1	—	104.6	132.1	—	99.4	125.5	—	93.8	118.5	—	86.6	109.4
			SHC	—	109.4	138.1	—	104.6	132.1	—	99.4	125.5	—	93.8	118.5	—	86.6	109.4
6000 (cfm)	EA (wb)	58	TC	114.7	114.7	134.6	109.5	109.5	128.5	103.8	103.8	121.8	97.5	97.5	114.5	90.3	90.3	106.0
			SHC	94.8	114.7	134.6	90.5	109.5	128.5	85.8	103.8	121.8	80.6	97.5	114.5	74.6	90.3	106.0
		62	TC	115.5	115.5	134.5	110.2	110.2	128.2	104.4	104.4	121.6	98.2	98.2	114.4	90.2	90.2	105.0
			SHC	96.5	115.5	134.5	92.1	110.2	128.2	87.3	104.4	121.6	82.1	98.2	114.4	75.4	90.2	105.0
		67	TC	107.8	107.8	132.9	102.4	102.4	130.7	96.7	96.7	128.1	90.7	90.7	125.1	84.2	84.2	121.4
			SHC	48.5	90.7	132.9	46.5	88.6	130.7	44.3	86.2	128.1	42.0	83.5	125.1	39.4	80.4	121.4
		72	TC	108.7	108.7	136.6	103.3	103.3	134.1	97.5	97.5	131.2	91.5	91.5	127.7	84.7	84.7	115.8
			SHC	54.7	95.7	136.6	52.6	93.4	134.1	50.3	90.8	131.2	47.9	87.8	127.7	44.0	79.9	115.8
		76	TC	—	109.5	139.7	—	104.0	136.9	—	98.2	133.4	—	92.4	121.4	—	85.7	110.7
			SHC	—	99.9	139.7	—	97.4	136.9	—	94.5	133.4	—	86.4	121.4	—	78.9	110.7
7000 (cfm)	EA (wb)	58	TC	113.9	113.9	142.3	108.7	108.7	135.9	103.1	103.1	128.9	97.0	97.0	121.2	89.8	89.8	112.2
			SHC	85.4	113.9	142.3	81.5	108.7	135.9	77.3	103.1	128.9	72.7	97.0	121.2	67.3	89.8	112.2
		62	TC	114.8	114.8	141.7	109.5	109.5	135.2	103.8	103.8	128.2	97.7	97.7	120.7	90.4	90.4	111.6
			SHC	87.8	114.8	141.7	83.8	109.5	135.2	79.4	103.8	128.2	74.8	97.7	120.7	69.1	90.4	111.6
		67	TC	115.5	115.5	141.2	110.2	110.2	134.7	104.5	104.5	127.7	98.1	98.1	119.9	90.8	90.8	111.0
			SHC	89.8	115.5	141.2	85.7	110.2	134.7	81.2	104.5	127.7	76.3	98.1	119.9	70.6	90.8	111.0
		72	TC	115.0	115.0	115.0	109.3	109.3	111.5	103.2	103.2	109.3	96.7	96.7	107.0	89.0	89.0	104.2
			SHC	34.1	73.9	113.6	32.1	71.8	111.5	29.9	69.6	109.3	27.7	67.3	107.0	25.0	64.6	104.2
		76	TC	—	116.3	116.3	—	110.5	113.4	—	104.2	111.2	—	97.5	108.9	—	89.8	106.1
			SHC	—	76.8	115.5	—	74.7	113.4	—	72.5	111.2	—	70.2	108.9	—	67.5	106.1
8000 (cfm)	EA (wb)	58	TC	119.9	119.9	120.3	113.6	113.6	118.4	106.9	106.9	116.3	99.4	99.4	113.9	91.3	91.3	110.8
			SHC	58.8	89.6	120.3	56.8	87.6	118.4	54.8	85.5	116.3	52.5	83.2	113.9	50.0	80.4	110.8
		62	TC	120.7	120.7	124.4	114.3	114.3	122.4	107.5	107.5	120.4	100.0	100.0	117.6	92.4	92.4	114.5
			SHC	64.6	94.5	124.4	62.7	92.6	122.4	60.8	90.6	120.4	58.5	88.0	117.6	56.1	85.3	114.5
		67	TC	121.0	121.0	126.5	114.6	114.6	124.6	107.7	107.7	122.4	100.3	100.3	119.4	91.5	91.5	115.4
			SHC	67.6	97.0	126.5	65.7	95.2	124.6	63.7	93.1	122.4	61.4	90.4	119.4	58.5	86.9	115.4
		72	TC	121.3	121.3	128.5	114.8	114.8	126.6	107.8	107.8	124.2	100.5	100.5	121.2	91.6	91.6	116.6
			SHC	70.3	99.4	128.5	68.5	97.5	126.6	66.5	95.3	124.2	64.1	92.7	121.2	61.0	88.8	116.6
		76	TC	—	121.3	121.3	—	115.2	115.2	—	108.7	108.7	—	101.5	101.5	—	93.4	93.4
			SHC	—	60.0	95.0	—	57.9	92.9	—	55.7	90.7	—	53.3	88.2	—	50.7	85.5
9000 (cfm)	EA (wb)	58	TC	130.9	130.9	130.9	124.1	124.1	124.1	117.0	117.0	117.0	108.8	108.8	108.8	100.4	100.4	100.4
			SHC	19.3	44.3	69.3	17.3	42.2	67.1	15.3	40.1	64.9	12.9	37.6	62.3	10.5	35.1	59.6
		62	TC	133.2	133.2	133.2	126.2	126.2	126.2	118.8	118.8	118.8	110.4	110.4	110.4	101.9	101.9	101.9
			SHC	18.6	42.8	67.1	16.6	40.7	64.9	14.5	38.5	62.6	12.2	36.1	60.1	9.8	33.6	57.4
		67	TC	134.8	134.8	134.8	127.6	127.6	127.6	120.1	120.1	120.1	111.8	111.8	111.8	102.8	102.8	102.8
			SHC	17.4	41.1	64.8	15.4	39.0	62.6	13.3	36.8	60.3	11.0	34.4	57.8	8.5	31.8	55.1
		72	TC	136.0	136.0	136.0	128.8	128.8	128.8	121.0	121.0	121.0	112.5	112.5	112.5	103.7	103.7	103.7
			SHC	15.7	39.0	62.4	13.7	36.9	60.1	11.6	34.7	57.8	9.3	32.3	55.3	6.9	29.8	52.7
		76	TC	—	136.5	136.5	—	129.2	129.2	—	121.4	121.4	—	112.9	112.9	—	104.0	104.0
			SHC	—	37.8	61.0	—	35.7	58.8	—	33.4	56.4	—	31.0	53.9	—	28.5	51.3

LEGEND

EA (db) — Entering Air Temperature (dry bulb)
 EA (wb) — Entering Air Temperature (wet bulb)
 SHC — Sensible Cooling Capacity, Gross (1000 Btuh)
 TC — Total Cooling Capacity, Gross (1000 Btuh)

38AXQ07 / 40RLQ07 Heating Combination Ratings

RETURN AIR (°F db)	STANDARD AIR (cfm)		TEMPERATURE AIR ENTERING OUTDOOR COIL (°F db at 70% rh)								
			-10	0	10	17	30	40	47	50	60
55	1800	TH	20.3	27.5	35.3	41.2	52.9	63.2	70.8	73.9	84.2
		THI	18.8	25.3	32.4	37.5	46.4	63.2	70.8	73.9	84.2
		kW	3.53	3.66	3.80	3.92	4.17	4.40	4.59	4.66	4.91
	2400	TH	20.9	28.1	35.9	41.8	52.9	64.0	71.7	74.2	84.8
		THI	19.3	25.8	32.9	38.1	46.3	64.0	71.7	74.2	84.8
		kW	3.55	3.65	3.76	3.85	4.06	4.23	4.38	4.43	4.61
	3000	TH	21.6	28.7	36.5	42.5	54.6	64.7	72.1	74.6	85.1
		THI	19.9	26.4	33.5	38.8	47.8	64.7	72.1	74.6	85.1
		kW	3.65	3.73	3.83	3.90	4.07	4.23	4.35	4.38	4.54
70	1800	TH	19.0	26.3	34.1	40.0	51.9	61.8	69.0	72.4	82.2
		THI	17.6	24.2	31.3	36.5	45.5	61.8	69.0	72.4	82.2
		kW	3.94	4.11	4.29	4.42	4.71	4.97	5.19	5.28	5.56
	2400	TH	19.7	27.0	34.9	40.9	52.9	63.0	70.5	73.7	83.5
		THI	18.2	24.8	32.1	37.3	46.4	63.0	70.5	73.7	83.5
		kW	3.98	4.11	4.25	4.36	4.58	4.79	4.96	5.02	5.22
	3000	TH	20.4	27.7	35.7	41.7	53.8	64.0	71.4	74.6	84.0
		THI	18.9	25.5	32.8	38.0	47.2	64.0	71.4	74.6	84.0
		kW	4.09	4.20	4.33	4.41	4.60	4.78	4.92	4.96	5.12
80	1800	TH	18.0	25.3	33.1	39.0	50.7	60.5	67.7	70.8	80.5
		THI	16.6	23.3	30.4	35.6	44.4	60.5	67.7	70.8	80.5
		kW	4.24	4.43	4.64	4.80	5.12	5.41	5.64	5.74	6.07
	2400	TH	18.7	26.1	34.0	40.0	52.0	62.0	69.2	72.6	82.2
		THI	17.3	24.0	31.2	36.5	45.5	62.0	69.2	72.6	82.2
		kW	4.28	4.44	4.61	4.73	4.98	5.21	5.39	5.47	5.69
	3000	TH	19.5	26.9	34.9	40.9	53.0	63.1	70.4	73.8	83.1
		THI	18.0	24.8	32.0	37.3	46.4	63.1	70.4	73.8	83.1
		kW	4.41	4.54	4.69	4.79	5.00	5.19	5.35	5.40	5.58

38AXQ08 / 40RLQ08 Heating Combination Ratings

RETURN AIR (°F db)	STANDARD AIR (cfm)		TEMPERATURE AIR ENTERING OUTDOOR COIL (°F db at 70% rh)								
			-10	0	10	17	30	40	47	50	60
55	2250	TH	28.8	37.6	48.6	55.6	69.5	83.6	93.0	96.1	109.7
		THI	26.7	34.6	44.6	50.7	60.9	83.6	93.0	96.1	109.7
		kW	4.40	4.60	4.90	5.00	5.40	5.80	6.10	6.20	6.50
	3000	TH	30.8	39.8	51.1	58.3	72.7	87.1	96.7	99.9	113.8
		THI	28.5	36.6	46.9	53.1	63.7	87.1	96.7	99.9	113.8
		kW	4.70	4.80	5.10	5.20	5.50	5.90	6.10	6.10	6.50
	3750	TH	33.1	42.3	53.7	61.0	75.7	90.3	99.9	103.2	117.3
		THI	30.6	38.9	49.3	55.6	66.3	90.3	99.9	103.2	117.3
		kW	5.10	5.30	5.50	5.70	5.90	6.30	6.40	6.50	6.80
70	2250	TH	22.5	31.4	42.8	49.8	63.8	77.9	87.0	90.3	103.3
		THI	20.8	28.9	39.3	45.4	55.9	77.9	87.0	90.3	103.3
		kW	4.90	5.20	5.50	5.70	6.10	6.60	6.90	7.00	7.40
	3000	TH	24.4	33.7	45.3	52.5	66.9	81.5	91.0	94.2	107.8
		THI	22.6	31.0	41.6	47.9	58.6	81.5	91.0	94.2	107.8
		kW	5.20	5.50	5.70	5.90	6.30	6.60	6.90	7.00	7.30
	3750	TH	26.8	36.2	48.0	55.4	70.1	84.9	94.4	97.7	111.4
		THI	24.8	33.3	44.1	50.5	61.4	84.9	94.4	97.7	111.4
		kW	5.80	6.00	6.20	6.40	6.70	7.00	7.30	7.30	7.60
80	2250	TH	18.2	27.2	38.8	45.8	59.6	73.9	82.6	86.1	98.8
		THI	16.8	25.0	35.6	41.7	52.2	73.9	82.6	86.1	98.8
		kW	5.40	5.70	6.00	6.30	6.70	7.20	7.50	7.70	8.10
	3000	TH	20.1	29.4	41.3	48.6	63.1	77.7	86.8	90.2	103.4
		THI	18.6	27.1	37.9	44.3	55.3	77.7	86.8	90.2	103.4
		kW	5.70	6.00	6.30	6.50	6.80	7.20	7.60	7.60	8.00
	3750	TH	22.5	32.0	44.1	51.5	66.2	81.0	90.5	93.8	107.3
		THI	20.8	29.4	40.5	46.9	58.0	81.0	90.5	93.8	107.3
		kW	6.20	6.50	6.80	6.90	7.30	7.60	7.90	8.00	8.30

LEGEND

TH — Total Heating Capacity, Gross (1000 Btuh)
THI — Integrated Heating Capacity, Gross (1000 Btuh)
kW — Total Power Motor Input

38AXQ12 / 40RLQ12 Heating Combination Ratings

RETURN AIR (°F db)	STANDARD AIR (cfm)		TEMPERATURE AIR ENTERING OUTDOOR COIL (°F db at 70% rh)								
			-10	0	10	17	30	40	47	50	60
55	3000	TH	—	51.5	62.8	71.1	88.0	102.3	116.0	119.8	138.3
		THI	—	47.3	57.6	64.8	77.1	102.3	116.0	119.8	138.3
		kW	—	5.99	6.33	6.59	7.21	7.74	8.18	8.33	8.96
	4000	TH	—	52.1	63.1	71.7	87.7	101.8	115.5	119.2	137.2
		THI	—	47.9	57.9	65.3	76.9	101.8	115.5	119.2	137.2
		kW	—	6.07	6.39	6.59	7.19	7.55	7.86	7.96	8.44
	5000	TH	—	53.4	64.0	71.7	87.9	100.6	113.6	117.3	135.2
		THI	—	49.1	58.8	65.4	77.0	100.6	113.6	117.3	135.2
		kW	—	6.40	6.73	6.98	7.39	7.69	7.95	8.04	8.44
70	3000	TH	—	52.6	64.0	72.1	88.8	102.6	115.3	118.9	135.7
		THI	—	48.4	58.8	65.8	77.8	102.6	115.3	118.9	135.7
		kW	—	6.82	7.24	7.53	8.30	8.96	9.48	9.62	10.32
	4000	TH	—	53.5	64.8	72.7	88.9	102.3	114.7	118.0	133.4
		THI	—	49.2	59.4	66.3	77.9	102.3	114.7	118.0	133.4
		kW	—	6.91	7.27	7.54	8.26	8.71	9.06	9.17	9.68
	5000	TH	—	55.0	66.1	73.8	89.4	101.4	112.4	115.5	129.9
		THI	—	50.6	60.6	67.3	78.3	101.4	112.4	115.5	129.9
		kW	—	7.26	7.60	7.88	8.48	8.83	9.12	9.21	9.63
80	3000	TH	—	53.1	64.6	72.6	89.0	102.3	114.5	117.9	133.8
		THI	—	48.9	59.3	66.2	78.0	102.3	114.5	117.9	133.8
		kW	—	7.43	7.91	8.23	9.09	9.84	10.46	10.61	11.37
	4000	TH	—	54.2	65.6	73.5	89.6	102.5	114.4	117.5	131.7
		THI	—	49.9	60.2	67.0	78.5	102.5	114.4	117.5	131.7
		kW	—	7.52	7.93	8.22	9.04	9.59	9.97	10.09	10.65
	5000	TH	—	55.9	67.2	74.9	90.4	102.5	112.7	115.5	128.4
		THI	—	51.4	61.7	68.3	79.2	102.5	112.7	115.5	128.4
		kW	—	7.88	8.25	8.54	9.31	9.70	10.03	10.12	10.58

38AXQ16 / 40RLQ16 Heating Combination Ratings

RETURN AIR (°F db)	STANDARD AIR (cfm)		TEMPERATURE AIR ENTERING OUTDOOR COIL (°F db at 70% rh)								
			-10	0	10	17	30	40	47	50	60
55	4500	TH	61.8	79.2	97.7	113.0	139.8	164.2	182.0	188.8	216.8
		THI	57.1	72.9	89.7	103.0	122.5	164.2	182.0	188.8	216.8
		kW	9.00	9.55	10.12	10.61	11.4	12.2	12.8	13.0	13.9
	6000	TH	64.8	82.6	101.6	115.6	144.9	169.0	186.9	194.1	222.1
		THI	59.9	76.0	93.2	105.4	126.9	169.0	186.9	194.1	222.1
		kW	9.34	9.81	10.29	10.65	11.4	11.9	12.8	12.5	13.2
	7500	TH	67.9	85.9	105.3	118.9	149.1	173.0	191.8	197.8	224.6
		THI	62.8	79.0	96.7	108.4	130.7	173.0	191.8	197.8	224.6
		kW	9.94	10.36	10.80	11.11	11.7	12.2	12.6	12.7	13.3
70	4500	TH	55.0	72.8	91.4	104.8	132.2	156.2	175.5	181.4	205.3
		THI	50.9	67.0	83.9	95.6	115.8	156.2	175.5	181.4	205.3
		kW	10.2	10.8	11.5	12.0	13.0	13.8	14.6	14.8	15.8
	6000	TH	58.3	76.0	94.9	109.0	137.6	162.4	181.7	187.4	215.3
		THI	53.9	69.9	87.1	99.4	120.5	162.4	181.7	187.4	215.3
		kW	10.5	11.1	11.6	12.1	12.9	13.6	14.1	14.3	15.1
	7500	TH	61.1	78.2	98.9	112.9	142.1	167.0	185.9	191.9	227.2
		THI	56.5	71.9	90.7	102.9	124.5	167.0	185.9	191.9	227.2
		kW	11.2	11.6	12.2	12.5	13.2	13.9	14.3	14.4	16.4
80	4500	TH	50.2	68.1	86.7	100.1	127.2	150.3	169.6	175.8	201.5
		THI	46.4	62.6	79.6	91.2	111.4	150.3	169.6	175.8	201.5
		kW	11.04	11.80	12.54	13.06	14.15	15.10	15.93	16.20	17.32
	6000	TH	53.6	71.6	90.7	104.5	132.9	156.7	176.5	182.8	208.4
		THI	49.5	65.9	83.2	95.3	116.4	156.7	176.5	182.8	208.4
		kW	11.44	12.07	12.70	13.13	14.05	14.80	15.45	15.63	16.47
	7500	TH	56.5	75.2	94.5	108.3	140.1	161.9	181.6	187.5	213.9
		THI	52.3	69.2	86.7	98.8	122.7	161.9	181.6	187.5	213.9
		kW	12.09	12.68	13.23	13.62	14.53	15.09	15.61	15.75	16.47

LEGEND

TH — Total Heating Capacity, Gross (1000 Btuh)
THI — Integrated Heating Capacity, Gross (1000 Btuh)
kW — Total Power Motor Input

38AXQ25 / 40RLQ25 Heating Combination Ratings

RETURN AIR (°F db)	STANDARD AIR (cfm)		TEMPERATURE AIR ENTERING OUTDOOR COIL (°F db at 70% rh)								
			-10	0	10	17	30	40	47	50	60
55	6000	TH	75.8	99.4	126.5	143.2	188.4	222.3	247.8	255.1	270.5
		THI	70.1	91.5	116.1	130.6	165.1	222.3	247.8	255.1	270.5
		KW	12.45	13.09	13.85	14.34	15.84	17.02	17.93	18.13	18.70
	8000	TH	80.1	99.9	129.0	149.1	193.2	226.3	251.9	259.9	270.9
		THI	74.1	92.0	118.4	135.9	169.2	226.3	251.9	259.9	270.9
		KW	13.50	14.03	14.19	14.69	15.88	16.90	17.62	17.84	17.98
	10000	TH	84.4	113.1	132.0	153.8	197.6	230.1	244.9	252.9	272.2
		THI	78.0	104.1	121.2	140.3	173.1	230.1	244.9	252.9	272.2
		KW	14.01	14.56	15.00	15.49	16.56	17.43	17.73	17.91	18.33
70	6000	TH	73.5	102.6	126.6	144.7	182.9	219.1	245.9	253.6	286.0
		THI	68.0	94.4	116.2	131.9	160.2	219.1	245.9	253.6	286.0
		KW	13.99	14.91	15.74	16.37	17.78	19.19	20.40	20.71	22.05
	8000	TH	77.9	102.1	130.0	146.5	191.3	223.7	251.2	259.1	284.2
		THI	72.0	94.0	119.3	133.5	167.6	223.7	251.2	259.1	284.2
		KW	14.66	15.36	16.12	16.60	17.96	19.03	20.00	20.24	20.89
	10000	TH	82.3	107.4	134.0	152.9	195.1	228.1	255.2	262.9	287.1
		THI	76.1	98.8	122.9	139.4	170.9	228.1	255.2	262.9	287.1
		KW	15.70	16.36	17.01	17.49	18.63	19.61	20.40	20.57	21.12
80	6000	TH	72.2	100.6	125.4	143.7	177.3	215.8	243.0	212.1	284.3
		THI	66.7	92.6	115.1	131.0	155.4	215.8	243.0	212.1	284.3
		KW	15.12	16.15	17.12	17.82	19.73	21.36	22.17	20.66	24.10
	8000	TH	75.7	104.3	131.1	147.1	184.3	222.0	248.6	257.8	292.0
		THI	70.0	95.9	120.3	134.1	161.5	222.0	248.6	257.8	292.0
		KW	15.82	16.70	18.06	18.10	19.34	20.63	21.71	22.07	23.21
	10000	TH	80.1	108.9	133.6	152.0	184.3	225.3	254.1	262.1	286.5
		THI	74.1	100.2	122.6	138.6	161.5	225.3	254.1	262.1	286.5
		KW	16.91	17.70	18.44	18.96	19.34	21.18	22.17	22.38	23.00

38AXQ28 / 40RLQ28 Heating Combination Ratings

RETURN AIR (°F db)	STANDARD AIR (cfm)		TEMPERATURE AIR ENTERING OUTDOOR COIL (°F db at 70% rh)								
			-10	0	10	17	30	40	47	50	60
55	6250	TH	95.5	126.6	160.4	185.5	235.7	275.5	309.1	322.4	367.7
		THI	88.3	116.5	147.2	169.2	206.5	275.5	309.1	322.4	367.7
		KW	17.10	17.90	18.70	19.40	20.90	22.20	23.20	23.70	25.30
	10000	TH	91.5	119.7	150.7	174.1	221.9	261.5	296.5	310.5	359.6
		THI	84.6	110.1	138.3	158.7	194.5	261.5	296.5	310.5	359.6
		KW	17.60	18.10	18.70	19.10	20.10	21.00	21.70	22.00	23.10
	12500	TH	93.4	120.7	150.5	173.3	219.3	259.4	294.6	308.7	358.6
		THI	86.4	111.0	138.1	158.0	192.2	259.4	294.6	308.7	358.6
		KW	18.60	19.10	19.60	20.00	20.90	21.60	22.20	22.40	23.40
70	6250	TH	112.4	143.2	176.4	201.0	249.1	286.8	317.8	330.1	371.0
		THI	103.9	131.8	161.9	183.3	218.3	286.8	317.8	330.1	371.0
		KW	20.00	20.90	21.80	22.60	24.30	25.70	26.70	27.20	28.90
	10000	TH	108.4	136.4	167.2	190.3	236.7	274.5	307.3	320.3	365.7
		THI	100.3	125.5	153.4	173.5	207.4	274.5	307.3	320.3	365.7
		KW	20.30	20.80	21.50	22.00	23.00	24.00	24.70	25.00	26.20
	12500	TH	110.4	137.9	167.5	189.9	235.1	273.1	306.3	319.4	365.9
		THI	102.1	126.9	153.8	173.1	206.0	273.1	306.3	319.4	365.9
		KW	21.30	21.80	22.40	22.80	23.70	24.50	25.10	25.40	26.50
80	6250	TH	122.9	153.5	186.2	210.1	256.5	293.1	322.1	333.8	371.9
		THI	113.6	141.3	170.9	191.6	224.7	293.1	322.1	333.8	371.9
		KW	22.20	23.30	24.40	25.20	26.90	28.40	29.50	30.00	31.70
	10000	TH	118.9	147.2	177.6	199.9	245.4	282.0	313.1	325.6	368.3
		THI	110.0	135.4	163.0	182.3	215.0	282.0	313.1	325.6	368.3
		KW	22.50	23.10	23.70	24.30	25.40	26.30	27.00	27.40	28.60
	12500	TH	121.2	148.7	177.8	200.0	244.6	281.2	312.9	325.4	369.3
		THI	112.1	136.8	163.2	182.3	214.4	281.2	312.9	325.4	369.3
		KW	23.50	24.00	24.60	25.00	26.00	26.80	27.40	27.70	28.80

LEGEND

TH — Total Heating Capacity, Gross (1000 Btuh)
THI — Integrated Heating Capacity, Gross (1000 Btuh)
KW — Total Power Motor Input

Electrical Data — 38AXQ*07-28 Units^{a,b}

UNIT	NOMINAL POWER SUPPLY ^{c,d}	VOLTAGE RANGE		COMPRESSOR				WITHOUT POWERED CONVENIENCE OUTLET					
				No. 1		No. 2		OFM (ea)		Power Supply		Disconnect Size	
	V-Ph-Hz	Min	Max	RLA	LRA	RLA	LRA	Qty	FLA	MCA ^e	Fuse or HACR Brkr	FLA	LRA
38AXQM/N07	208/230-3-60	187	253	19.2	162	—	—	2	1.5	28	45	26	170
	460-3-60	414	506	9.6	71	—	—	2	0.8	15	20	13	77
	575-3-60	518	633	6.6	58	—	—	2	0.7	11	15	10	64
38AXQM/N08	208/230-3-60	187	253	26.3	191	—	—	2	1.5	37	60	34	199
	460-3-60	414	506	10.9	95	—	—	2	0.8	16	25	15	101
	575-3-60	518	633	9.2	65	—	—	2	0.7	14	20	13	71
38AXQM/N12	208/230-3-60	187	253	26.6	255	—	—	2	1.5	37	60	35	263
	460-3-60	414	506	14.1	123	—	—	2	0.8	20	30	19	129
	575-3-60	518	633	11.5	94	—	—	2	0.7	17	25	15	100
38AXQT/U16	208/230-3-60	187	253	26.3	179	27.7	179	3	1.5	65/65	90/90	67/67	367/367
	460-3-60	414	506	10.9	95	11.5	103	3	0.8	28	35	29	204
	575-3-60	518	633	9.2	65	9.0	78	3	0.7	23	30	23	149
38AXQT/U25	208/230-3-60	187	253	28.3	255	35.6	255	4	1.5	79/79	100/100	80/80	522/522
	460-3-60	414	506	14.0	123	16.4	140	4	0.8	38	50	39	271
	575-3-60	518	633	12.3	94	13.8	108	4	0.7	32	45	33	210
38AXQT/U28	208/230-3-60	187	253	37.2	270	45.8	336	4	1.5	100/100	125/125	102/102	618/618
	460-3-60	414	506	19.7	147	20.5	141	4	0.8	48	60	50	296
	575-3-60	518	633	16.9	109	14.5	109	4	0.7	38	50	39	226

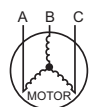
UNIT	NOMINAL POWER SUPPLY ^{c,d}	VOLTAGE RANGE		COMPRESSOR				WITH POWERED CONVENIENCE OUTLET					
				No. 1		No. 2		OFM (ea)		Power Supply		Disconnect Size	
	V-Ph-Hz	Min	Max	RLA	LRA	RLA	LRA	Qty	FLA	MCA ^e	Fuse or HACR Brkr	FLA	LRA
38AXQM/N07	208/230-3-60	187	253	19.2	162	—	—	2	1.5	33	50	32	175
	460-3-60	414	506	9.6	71	—	—	2	0.8	17	25	16	79
	575-3-60	518	633	6.6	58	—	—	2	0.7	12	15	12	66
38AXQM/N08	208/230-3-60	187	253	26.3	191	—	—	2	1.5	42	60	40	204
	460-3-60	414	506	10.9	95	—	—	2	0.8	18	25	17	103
	575-3-60	518	633	9.2	65	—	—	2	0.7	16	20	15	73
38AXQM/N12	208/230-3-60	187	253	26.6	255	—	—	2	1.5	42	60	40	268
	460-3-60	414	506	14.1	123	—	—	2	0.8	22	30	21	131
	575-3-60	518	633	11.5	94	—	—	2	0.7	19	25	17	102
38AXQT/U16	208/230-3-60	187	253	26.3	179	27.7	179	3	1.5	70/70	90/90	73/73	372/372
	460-3-60	414	506	10.9	95	11.5	103	3	0.8	30	40	31	206
	575-3-60	518	633	9.2	65	9.0	78	3	0.7	24	30	25	151
38AXQT/U25	208/230-3-60	187	253	28.3	255	35.6	255	4	1.5	84/84	100/100	86/86	527/527
	460-3-60	414	506	14.0	123	16.4	140	4	0.8	40	50	41	273
	575-3-60	518	633	12.3	94	13.8	108	4	0.7	34	45	35	212
38AXQT/U28	208/230-3-60	187	253	37.2	270	45.8	336	4	1.5	105/105	150/150	108/108	623/623
	460-3-60	414	506	19.7	147	20.5	141	4	0.8	51	60	52	298
	575-3-60	518	633	16.9	109	14.5	109	4	0.7	40	50	41	228

NOTE(S):

- In compliance with NEC requirements for multimotor and combination load equipment (refer to NEC Articles 430 and 440), the overcurrent protective device for the unit shall be fuse or HACR breaker. Canadian units may be fuse or circuit breaker.
- Motor RLA and LRA values are established in accordance with Underwriters Laboratories (UL) Standard 60335-2-40.
- The 575-v units are UL, Canada-listed only.
- Unbalanced 3-Phase Supply Voltage: Never operate motor where phase imbalance in supply voltage is greater than 2%. Use formula below to determine voltage imbalance percentage.
- The MCA values are calculated in accordance with NEC Article 440.

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

Example: Supply voltage is 230-3-60



AB = 224-v
BC = 231-v
AC = 226-v

$$\text{Average Voltage} = \frac{(224 + 231 + 226)}{3} = \frac{681}{3} = 227$$

Determine maximum deviation from average voltage.

(AB) 227-224 = 3-v

(BC) 231-227 = 4-v

(AC) 227-226 = 1-v

Maximum deviation is 4-v.

Determine percent of voltage imbalance.

$$\% \text{ Voltage Imbalance} = 100 \times \frac{4}{227} = 1.76\%$$

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.

LEGEND

- BRKR** — Circuit Breaker
- FLA** — Full Load Amps
- LRA** — Locked Rotor Amps
- MCA** — Minimum Circuit Amps Protection
- NEC** — National Electrical Code
- RLA** — Rated Load Amps

Refrigerant line sizing

Consider the length of the piping required between the outdoor and indoor units. The maximum allowable line length is 100 ft (30.5 m). See pages 8-10 for Piping Recommendation tables. Refrigerant vapor piping should be insulated.

IMPORTANT: A refrigerant receiver is not provided with the unit. Do not install a receiver.

Install filter drier(s) and moisture indicator(s)

Every unit **MUST** have a bi-directional filter drier in the liquid line. Locate the filter drier at the indoor unit, close to the evaporator coil thermal expansion valve (TXV) inlets.

38AXQ units include one (two on 16, 25, and 28 size models) Puron-duty filter drier, shipped in cartons attached to the unit base pan. Remove the filter drier and prepare to install in the liquid line at the evaporator coil. Do not remove connection fitting plugs until ready to connect and braze the filter drier into the liquid line position.

Installation of liquid line moisture indicating sight glass in each circuit is recommended. Locate the sight glass(es) between the outlet of the filter drier and the TXV inlet.

Refer to Refrigerant Specialties Part Numbers Table for recommendations on refrigeration specialties.

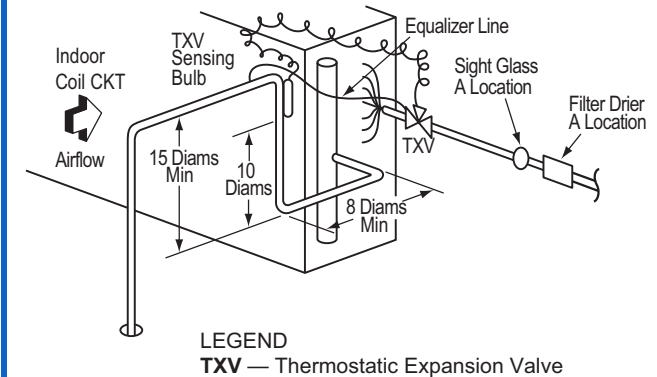
Select the filter drier for maximum unit capacity and minimum pressure drop. Complete the refrigerant piping from the indoor unit to the outdoor unit before opening the liquid and suction lines at the outdoor unit.

Install liquid line solenoid valve

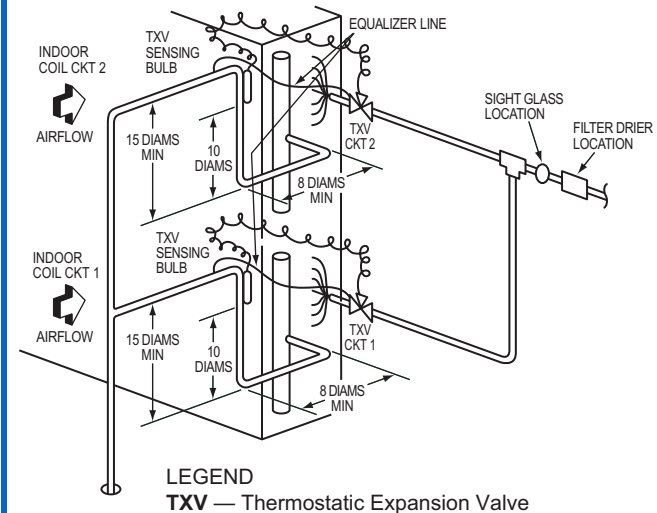
It is recommended that a bi-directional solenoid valve be placed in the main liquid line between the outdoor unit and the indoor coil. Locate the solenoid valve at the end of the liquid line, near the outdoor unit connections, with flow direction arrow pointed at the outdoor unit. Refer to Refrigerant Specialties Part Numbers Table below. (A liquid line solenoid valve is required when the liquid line length exceeds 75 ft [23 m].)

This valve prevents refrigerant migration (which causes oil dilution) to the compressor during the off cycle, at low outdoor ambient temperatures. Wire the solenoid according to the unit label diagram.

Location of Sight Glass(es) and Filter Driers (typical 38AXQ / 40RLQ size 07 and 08 system)



Location of Sight Glass(es) and Filter Driers (typical 38AXQ / 40RLQ size 12 system)



Refrigerant Specialties Part Numbers

LIQUID LINE SIZE (in.)	LIQUID LINE SOLENOID VALVE (LLSV)	SOLENOID COIL	SIGHT GLASS
3/8	EF680033 plus EF680039 biflow kit	EF680037	KM680008
1/2	EF680035 plus EF680039 biflow kit	EF680037	KM680004
5/8	EF680036 plus EF680039 biflow kit	EF680037	KM680005

Split System Heat Pump Outdoor Unit with Puron Advance™ Refrigerant HVAC Guide Specifications - Section 15678

Size Range: **6 to 25 Nominal Tons Cooling**

Carrier Model Numbers: **38AXQ07-28**

Part 1 — General

1.01 SYSTEM DESCRIPTION

- A. Outdoor-mounted, electrically controlled, air-cooled split system heat pump suitable for on-the-ground or rooftop installation. Unit shall consist of a scroll air-conditioning compressor assembly, an air-cooled coil, propeller-type condenser fans, and a control box. Unit shall discharge supply air upward as shown on contract drawings. Unit shall function as the outdoor component of an air to air electric heat pump system.
- B. Unit must be designed with a Puron Advance™ (R-454B) refrigerant circuit to match Packaged Heat Pump Air Handling Unit(s), 40RLQ for matched systems approved by the manufacturer.

1.02 QUALITY ASSURANCE

- A. Unit shall be rated in accordance with AHRI Standard 340/360.
- B. Unit construction shall comply with ANSI/ASHRAE 15 safety code latest revision and comply with NEC.
- C. Unit shall be constructed in accordance with UL 60335-1 and 60335-2-40 standard and shall carry the UL and UL, Canada label.
- D. Unit cabinet shall be capable of withstanding 500-hour salt spray exposure per ASTM B117 (scribed specimen).
- E. Air-cooled outdoor coils shall be leak tested at 150 psig and pressure tested at 650 psig and qualified to UL burst test at 1980 psig.
- F. Unit shall be manufactured in a facility registered to ISO 9001 manufacturing quality standard.

1.03 DELIVERY, STORAGE AND HANDLING

Unit shall be shipped as single package only, and shall be stored and handled according to unit manufacturer's recommendations.

1.04 WARRANTY (FOR INCLUSION BY SPECIFYING ENGINEER)

Part 2 — Products

2.01 EQUIPMENT

- A. General: Factory-assembled, single piece, air-cooled split system heat pump. Contained within the unit enclosure shall be all factory wiring, piping, controls, compressor, holding charge Puron Advance™ (R-454B), and special features required prior to field start-up.

B. Unit Cabinet:

- 1. Unit cabinet shall be constructed of galvanized steel, bonderized and coated with a pre-painted baked enamel finish.
- 2. A heavy-gauge roll-formed perimeter base rail with forklift slots and lifting holes shall be provided to facilitate rigging.

C. Fans:

- 1. Condenser fans shall be direct driven, propeller type, discharging air vertically upward.
- 2. Fan blades shall be balanced.
- 3. Condenser fan discharge openings shall be equipped with PVC coated steel wire safety guards.
- 4. Condenser fan and motor shaft shall be corrosion resistant.

D. Compressor:

- 1. Compressor shall be of the hermetic scroll type.
- 2. Compressor shall be mounted on rubber grommets.
- 3. Compressor shall include overload protection.
- 4. Compressors shall be equipped with a crank-case heater.
- 5. Compressor shall be equipped with internal high discharge temperature protection.

E. Coil:

- 1. Coil shall be air-cooled and circuited for sub cooling during cooling mode of operation.
- 2. Coil shall be constructed of aluminum fins (copper fins optional) mechanically bonded to internally grooved seamless copper tubes which are then cleaned, dehydrated, and sealed.

F. Refrigeration Components and Operation:

- 1. Refrigeration circuit components shall include liquid line service valve, suction line service valve, a full charge of compressor oil, holding charge of refrigerant, and loose shipped refrigerant filter drier (one per circuit).
- 2. Precision-sized suction line accumulator on each refrigerant circuit shall protect from oil being removed from the scroll compressor rotating orbiter and plate during the activation of the defrost mode and switching back and forth from cooling and heating operations.
- 3. Unit shall be capable of starting and running up to 125°F (52°C) and down to 35°F (2°C) ambient outdoor temperature.
- 4. Unit shall operate at $\pm 10\%$ from rated voltage.

G. Controls and Safeties:

1. Minimum control functions shall include:
 - a. Control wire terminal blocks.
 - b. Compressor lockout on auto-reset safety until reset from thermostat.
 - c. Each unit shall utilize the Comfort Alert™¹ Diagnostic Board that provides:
 - 1) System Pressure Trip fault code indication
 - 2) Short Cycling fault code indication
 - 3) Locked Rotor fault code indication
 - 4) Open Circuit fault code indication
 - 5) Reverse Phase 3 fault code indication
 - 6) Welded Contactor fault code indication
 - 7) Low Voltage fault code indication
 - 8) Anti-short cycle protection
 - 9) Phase reversal protection
2. Minimum safety devices which are equipped with automatic reset (after resetting first at thermostat), shall include:
 - a. High discharge pressure protection switch.
 - b. Loss-of-charge protection switch.

H. Electrical Requirements:

1. Unit electrical power shall be single-point connection.
2. Unit control circuit shall contain a 75VA - 24-v transformer for unit control.

I. Special Features:

1. Unit-Mounted, Non-Fused Disconnect Switch: (Not available when unit MOCP electrical rating exceeds 80 amps)
Switch shall be factory-installed and internally mounted. NEC and UL-approved non-fused switch shall provide unit power shutoff. Switch shall be accessible from outside the unit and shall provide power off lock-out capability.
2. Convenience Outlet:
 - a. Powered convenience outlet.
 - 1) Outlet shall be powered from main line power to the rooftop unit.
 - 2) Outlet shall be powered from line side or load side of disconnect by installing contractor, as required by code. If outlet is powered from load side of disconnect, unit electrical ratings shall be UL certified and rated for additional outlet amperage.
 - 3) Outlet shall be factory-installed and internally mounted with easily accessible 115-v female receptacle.
 - 4) Outlet shall include 15 amp GFI receptacles with independent fuse protection.

- 5) Voltage required to operate convenience outlet shall be provided by a factory-installed step-down transformer.
- 6) Outlet shall be accessible from outside the unit.
- 7) Outlet shall include a field-installed "Wet in Use" cover.

b. Non-Powered convenience outlet.

- 1) Outlet shall be powered from a separate 115/120v power source.
- 2) A transformer shall not be included.
- 3) Outlet shall be factory-installed and internally mounted with easily accessible 115-v female receptacle.
- 4) Outlet shall include 15 amp GFI receptacles with independent fuse protection.
- 5) Outlet shall be accessible from outside the unit.
- 6) Outlet shall include a field-installed "Wet in Use" cover.

3. Low-Ambient Temperature Control:

A low-ambient temperature control shall be available as a factory-installed option or as a field-installed accessory. This low-ambient control shall regulate speed of the condenser-fan motors in response to the saturated condensing temperature of the unit. The control shall maintain correct condensing pressure at outdoor temperatures down to -20°F (-29°C).

4. Optional Outdoor Coil Materials:

a. Pre-Coated Aluminum-Fin Coils:

Coils shall have a durable epoxy-phenolic coating to provide protection in mildly corrosive coastal environments. Coating shall be applied to the aluminum fin stock prior to the fin stamping process to create an inert barrier between the aluminum fin and copper tube. Epoxy-phenolic barrier shall minimize galvanic action between dissimilar metals.

b. E-Coated Aluminum-Fin Coils:

Coils shall have a flexible epoxy polymer coating uniformly applied to all coil surface areas without material bridging between fins. Coating process shall ensure complete coil encapsulation. Color shall be high gloss black with gloss requirements of 60° of 65 to 90% per ASTM D523-89. Uniform dry film thickness from 0.8 to 1.2 mil on all surface areas including fin edges. Superior hardness characteristics of 2H per ASTM D3363-92A and cross hatch adhesion of 4B-5B per ASTM D3359-93. Impact resistance shall be up to 160 in./lb (ASTM D2794-93). Humidity and water immersion resistance shall be up to a minimum of 1000 and 250 hours respectively

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(ASTM D2247-92 and ASTM D870-92). Corrosion durability shall be confirmed through testing to no less than 1000 hours salt spray per ASTM B117-90. Coil construction shall be aluminum fins mechanically bonded to copper tubes.

5. Thermostat Controls:

- a. Programmable multi-stage thermostat with 7-day clock, holiday scheduling, large backlit

display, remote sensor capability, and Title 24 compliance.

- b. Commercial electronic thermostat with 7-day time clock, auto-changeover, multistage capability, and large LCD temperature display.
6. Louvered Hail Guard Package:
- Louvered hail guard package shall protect coils against damage from hail and other flying debris.

