



Product Data

Commercial Split Systems Air Conditioning Condensing Units 21-88 kW (6 to 25 Tons), 50 Hz Units



38AUZ07,08,12,14 Shown

38AUZ, AUD 07-28 Single and Dual Circuit Condensing
Units with Puron® R-410A Refrigerant, 50 Hz

These dependable outdoor air cooled condensing units match Carrier's indoor-air handlers to meet a wide selection of cooling solutions.

Carrier's air-cooled air conditioning split systems:

- Provide a logical solution for commercial needs
- Have rugged, dependable construction
- Available with single or dual refrigerant circuits.
- Have cooling capability up to 52°C (125°F) ambient and down to 2°C (35°F) ambient standard

Constructed for long life

The 38AUZ single circuit and 38AUD dual circuit, air cooled condensing units are designed and built to last. The high efficient designed outdoor coil construction allows for a more efficient design in a smaller cabinet size that utilizes an overall reduction in refrigerant charge. Where conditions require, special coil coating coil protection option is available. Cabinets are constructed of pre-painted galvanized steel, delivering unparalleled protection from the environment. Inside and outside surfaces are protected to ensure long life, good looks, and reliable operation. Safety controls are used for enhanced system protection and reliability. Each unit utilizes the Comfort Alert™ diagnostic and troubleshooting control system. This protects the units operation and provides valuable diagnostic information when required.

Factory-installed options (FIOPs)

Certified and pre-engineered factory-installed options (FIOPs) allow units to be installed in less time, thereby reducing installed cost.

FIOPs include:

- low ambient controls which provide cooling operation down to -29°C (-20°F) ambient temperatures
- non-fused disconnect
- special coil coating coil protection
- louvered hail guard

Efficient operation

These air cooled condensing units will provide EERs up to 12.0 for 38AUD single circuit units and up to 12.8 for 38AUZ dual circuit units (tested in accordance with AHRI standard 340/360).

This high efficiency operation will help reduce overall operating cost and energy consumption.

Controls for performance dependability

The 38AU condensing units offer operating controls and components designed for performance dependability. The high efficiency hermetic scroll compressor is engineered for long life and durability. The compressors include vibration isolation for quiet operation. The high-pressure switch protects the entire refrigeration system from abnormally high operating pressures. A low-pressure switch protects the system from loss of charge. These units also include anti-short-cycling protection, which helps to protect 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. This 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 40RFA/40RUA packaged air handlers are custom matched to 38AUZ/D condensing units.

Information on matching 40RFA/40RUA DX packaged air handler follows for convenience. See separate product data for more details. The 40RFA/40RUA Series has excellent fan performance, efficient direct-expansion (DX) coils, a unique combination of indoor-air quality features, and is easy to install. Its versatility and state-of-the-art features help to ensure economical performance of the split system both now and in the future.

Indoor-air quality (IAQ) features

The unique combination of IAQ features in the 40RFA/40RUA Series air handlers help to ensure that only clean, fresh, conditioned air is delivered to the occupied space.

Direct-expansion 4 row cooling coils prevent the build-up of humidity in the room, even during part-load conditions.

Standard 51 mm (2 in.) disposable filters remove dust and airborne particles from the occupied space for cleaner air.

The pitched, non-corroding drain pan can be adjusted for a right-hand or left-hand connection to suit many applications and provide positive drainage and prevent standing condensate.

The economizer accessory precisely controls the blend of outdoor air and room air to achieve comfort levels. When the outside air is suitable, outside air dampers can fully open to provide "free" cooling. When used in conjunction with CO₂ sensors, the economizer admits fresh outdoor air to replace stale, recirculated indoor air.

Economy

The 40RFA/40RUA Series packaged air handlers provide reduced installation expense and energy-efficient performance.

Quick installation is ensured by the multi-position design. Units can be installed in either the horizontal or vertical (upflow) configuration without modifications.

Fan motors and contactors are pre-wired and thermostatic expansion valves (TXVs) are factory-installed on all 40RFA/40RUA models.

High efficiency, precision-balanced fans minimize air turbulence, surging,

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Features/Benefits (cont)



and unbalanced operation, cutting operation expenses.

The economizer accessory precisely controls the blend of outdoor air and room air to achieve comfort levels. When the outside air enthalpy is suitable, outside air dampers can fully open to provide “free” cooling without energizing mechanical cooling.

Rugged dependability

The 40RFA/40RUA series units are made to last. The die-formed galvanized steel panels ensure structural integrity under all operating conditions. Galvanized steel fan housings are securely mounted to a die-formed galvanized steel fan deck.

Rugged pillow-block bearings (40RU sizes 14-30) are securely fastened to the solid steel fan shaft with split collets and clamp locking devices. 40RF units (sizes 07-12) have spider-type bearings.

The accompanying air handling unit has thermal insulation containing an immobilized anti-microbial agent to inhibit the growth of bacteria and fungi on the insulation.

Coil flexibility

Model 40RFA/40RUA direct-expansion coils have galvanized steel casings; inlet and outlet connections are on the same end. The coils are designed for use with Puron (R-410A) refrigerant and have 3/8 in. diameter copper tubes mechanically bonded to aluminum sine-wave fins.

The coils include matched, factory-installed thermostatic expansion valves (TXVs) with matching distributor nozzles and offer a removable power element and extended connections.

Easier installation and service

The multi-position design and component layout ensures quick unit installation and operation. Units can be converted from horizontal to vertical operation by simply repositioning the unit. Drain pan connections are duplicated on both sides of the unit. The filters, motor, drive, TXVs, and coil connections are all easily accessed by removing a single side panel.

Model number nomenclature

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

Model Type

38AU = Carrier Condensing Unit
Puron® R-410A Refrigerant

Type of Coil

Z = Single Circuit, A/C Scroll Compressor
D = Dual Circuit, A/C Scroll Compressor

Refrigerant Options

D = Single Circuit / 2-Stage¹
E = Single Circuit / 2-Stage with Low Ambient¹
T = Dual Circuit / Three Cooling Stages²
U = Dual Circuit / Three Cooling Stages with Low Ambient²

Nominal Kilowatts (Tonnage)

07 = 18.3 kW (5.2 Tons)
08 = 23.2 kW (6.6 Tons)
12 = 29.1 kW (8.3 Tons)
14 = 35.2 kW (10.0 Tons)
16 = 45.8 kW (13.0 Tons)
25 = 59.2 kW (16.8 Tons)
28 = 67.9 kW (19.3 Tons)

Not Used

A = Not Used

Not Used

0 = Not Used

NOTE(S):

¹ 38AUZ 07/08 models only.

² 38AUD models only.

Packaging

0 = Standard
1 = LTL

Electrical Options

A = None
C = Non-Fused Disconnect

Service Options

0 = None

Not Used

A = Place Holder

Base Unit Controls

0 = Electro-Mechanical Controls

Design Rev

– = Factory Specified

Voltage

9 = 400-3-50

Coil Options (RTPF)

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

AHRI Capacity Ratings^{a,b}

UNIT	COOLING STAGES	NOMINAL CAPACITY (kW [tons])	NET COOLING CAPACITY (MBH)	TOTAL POWER (kW)	EER
38AUZ(D,E)07/40RF07	2	17.5 [5.0]	60.2	4.7	12.8
38AUZ(D,E)08/40RF08	2	22.2 [6.3]	79.9	6.9	11.6
38AUD(T,U)12/40RF12	3	29.2 [8.3]	100.9	8.4	12.0
38AUD(T,U)14/40RU14	3	36.6 [10.4]	117.3	10.1	11.6
38AUD(T,U)16/40RU16	3	44.0 [12.5]	166.3	14.2	11.7
38AUD(T,U)25/40RU25	3	58.7 [16.7]	208.6	18.4	11.4
38AUD(T,U)28/40RU28	3	87.9 [25.0]	243.0	22.8	10.7

NOTE(S):

a. Rated in accordance with AHRI Standard 340/360, as appropriate.

b. Ratings are based on: Cooling Standard: 27°C (80°F) db, 19°C (67°F) wb indoor air temp and 35°C (95°F) db outdoor air temp.

LEGEND

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



Sound Power Levels, dB

UNIT	COOLING STAGES	A-WEIGHT OCTAVE OUTDOOR SOUND (dB) ^a								
		TOTAL	63	125	250	500	1,000	2,000	4,000	8,000
38AUZ07	2	83.3	55.5	72.1	75.4	76.5	78.1	75.2	72.4	66.9
38AUZ08	2	83.3	55.5	72.1	75.4	76.5	78.1	75.2	72.4	66.9
38AUD12	3	80.1	49.8	63.8	71.2	74.2	75.6	71.0	68.8	65.3
38AUD14	3	79.1	50.3	66.1	69.4	72.0	74.7	72.6	66.6	59.7
38AUD16	3	82.6	60.5	65.1	70.3	77.2	78.0	75.4	71.2	63.9
38AUD25	3	85.2	64.8	68.9	71.4	82.8	79.0	74.2	69.0	61.9
38AUD28	3	88.2	67.8	71.9	74.4	85.8	82.0	77.2	72.0	64.9

NOTE(S):

a. Outdoor sound data is measured in accordance with AHRI standard 270-2008.

LEGEND

dB — Decibel

38AUZ*07-08 Single Circuit Models – Physical Data

UNIT	38AUZ(D,E)07	38AUZ(D,E)08
NOMINAL CAPACITY (kW [tons])	21 [6]	26 [7.5]
OPERATING WEIGHT (kg [lb])	176 [389]	195 [430]
Refrigeration System		
No. Circuits / No. Comp. / Type	1 / 1 / Scroll	1 / 1 / Scroll
Refrigerant Type	Puron® R-410A	Puron® R-410A
R-410A Shipping Charge A/B (kg [lb])	4.1 [9.0]	4.1 [9.0]
System Charge w/ Fan Coil (kg [lb]) ^a	6.4 [14.0]	8.6 [19.0]
Metering Device	TXV	TXV
High-press. Trip / Reset (kPa [psig])	4,344 / 3,482 [630 / 505]	4,344 / 3,482 [630 / 505]
Low-press. Trip / Reset (kPa [psig])	372 / 807 [54 / 117]	372 / 807 [54 / 117]
Compressor		
Oil Charge A/B (L [oz])	1.6 [56]	1.7 [58]
Speed (rps [rpm])	48 [2,900]	48 [2,900]
Condenser Coil		
Material	Al/Cu	Al/Cu
Coil type	RTPF	RTPF
Rows / FPI	2 / 17	2 / 17
Total Face Area (m ² [ft ²])	1.6 [17.5]	2.1 [23.0]
Condenser fan / motor		
Qty / Motor Drive Type	2 / direct	2 / direct
Motor HP / rps [rpm]	1/4 / 18 [1,100]	1/4 / 18 [1,100]
Fan Diameter (mm [in.])	559 [22]	559 [22]
Nominal Airflow (L/s [cfm])	2,832 [6,000]	2,832 [6,000]
Watts (total)	610	610
Piping Connections		
Qty / Suction (in. ODS)	1 / 1-1/8	1 / 1-1/8
Qty / Liquid (in. ODS)	1 / 3/8	1 / 1/2

NOTE(S):

- a. Approximate system charge with about 7.6 m (25 ft) piping of sizes indicated with matched 40RF.

38AUD*12-14 Two Circuit Models – Physical Data

UNIT	38AUD(T,U)12	38AUD(T,U)14
NOMINAL CAPACITY (kW [tons])	35 [10]	44 [12.5]
OPERATING WEIGHT (kg [lb])	234 [516]	297 [654]
Refrigeration System		
No. Circuits / No. Comp. / Type	2 / 2 / Scroll	2 / 2 / Scroll
Refrigerant Type	Puron® R-410A	Puron® R-410A
R-410A Shipping Charge A/B (kg [lb])	4.1 / 4.1 [9.0 / 9.0]	4.1 / 4.1 [9.0 / 9.0]
System Charge w/ Fan Coil (kg [lb]) ^a	5.4 / 5.9 [11.9 / 13.1]	7.4 / 7.3 [16.2 / 16.1]
Metering Device	TXV	TXV
High-press. Trip / Reset (kPa [psig])	4,344 / 3,482 [630 / 505]	4,344 / 3,482 [630 / 505]
Low-press. Trip / Reset (kPa [psig])	372 / 807 [54 / 117]	372 / 807 [54 / 117]
Compressor		
Oil Charge A/B (L [oz])	1.2 / 1.2 [42 / 42]	1.6 / 1.6 [56 / 56]
Speed (rps [rpm])	48 [2,900]	48 [2,900]
Condenser Coil		
Material	Al/Cu	Al/Cu
Coil type	RTPF	RTPF
Rows / FPI	2 / 17	3 / 17
Total Face Area (m ² [ft ²])	3.0 [31.8]	3.0 [31.8]
Condenser fan / motor		
Qty / Motor Drive Type	2 / direct	2 / direct
Motor HP / rps [rpm]	1/4 / 18 [1,100]	1/4 / 18 [1,100]
Fan Diameter (mm [in.])	559 [22]	559 [22]
Nominal Airflow (L/s [cfm])	2,832 [6,000]	2,832 [6,000]
Watts (total)	610	610
Piping Connections		
Qty / Suction (in. ODS)	2 / 1-1/8	2 / 1-3/8
Qty / Liquid (in. ODS)	2 / 3/8	2 / 1/2

NOTE(S):

- a. Approximate system charge with about 7.6 m (25 ft) piping of sizes indicated with matched 40RF or 40RU.

38AUD*16-28 Physical Data

UNIT	38AUD(T,U)16	38AUD(T,U)25	38AUD(T,U)28
NOMINAL CAPACITY (kW [tons])	53 [15]	70 [20]	88 [25]
OPERATING WEIGHT (kg [lb])	332 [731]	444 [978]	444 [978]
Refrigeration System			
No. Circuits / No. Comp. / Type	2 / 2 / Scroll	2 / 2 / Scroll	2 / 2 / Scroll
Refrigerant Type	Puron® R-410A	Puron® R-410A	Puron® R-410A
R-410A Shipping Charge A/B (kg [lb])	4.1 / 4.1 [9.0 / 9.0]	4.1 / 4.1 [9.0 / 9.0]	4.1 / 4.1 [9.0 / 9.0]
System Charge w/ Fan Coil (kg [lb]) ^a	9.3 / 10.2 [20.4 / 22.4]	9.5 / 9.3 [20.9 / 20.6]	11.0 / 11.7 [24.2 / 25.8]
Metering Device	TXV	TXV	TXV
High-press. Trip / Reset (kPa [psig])	4,344 / 3,482 [630 / 505]	4,344 / 3,482 [630 / 505]	4,344 / 3,482 [630 / 505]
Low-press. Trip / Reset (kPa [psig])	372 / 807 [54 / 117]	372 / 807 [54 / 117]	372 / 807 [54 / 117]
Compressor			
Oil Charge A/B (L [oz])	1.8 / 1.8 [60 / 60]	3.3 / 3.3 [110 / 110]	3.3 / 3.3 [110 / 110]
Speed (rps [rpm])	48 [2,900]	48 [2,900]	48 [2,900]
Condenser Coil			
Material	Al/Cu	Al/Cu	Al/Cu
Coil type	RTPF	RTPF	RTPF
Rows / FPI	2 / 17	2 / 17	2 / 17
Total Face Area (m ² [ft ²])	2.2 [23.5] x 2	2.3 [25.0] x 2	2.3 [25.0] x 2
Condenser fan / motor			
Qty / Motor Drive Type	3 / direct	4 / direct	4 / direct
Motor HP / rps [rpm]	1/4 / 18 [1,100]	1/4 / 18 [1,100]	1/4 / 18 [1,100]
Fan Diameter (mm [in.])	559 [22]	559 [22]	559 [22]
Nominal Airflow (L/s [cfm])	4,248 [9,000]	5,663 [12,000]	5,663 [12,000]
Watts (total)	970	1,150	1,150
Piping Connections			
Qty / Suction (in. ODS)	2 / 1-3/8	2 / 1-3/8	2 / 1-3/8
Qty / Liquid (in. ODS)	2 / 1/2	2 / 1/2	2 / 1/2

NOTE(S):

- a. Approximate system charge with about 7.6 m (25 ft) piping of sizes indicated with matched 40RU.

38AUZ Piping Recommendations (Single-Circuit)

MODEL and NOMINAL CAPACITY	LINEAR LINE (m [ft])	0 - 7.3 [0 - 24]		7.6 - 14.9 [25 - 49]		15.2 - 22.6 [50 - 74]		22.8 - 30.2 [75 - 99]		30.5 - 37.8 [100 - 124]		38.1 - 45.4 [125 - 149]		45.7 - 53.0 [150 - 174]		53.3 - 60.7 [175 - 200]	
	EQUIV. LINE (m [ft])	0 - 11.3 [0 - 37]		11.6 - 22.6 [38 - 74]		22.8 - 34.1 [75 - 112]		34.4 - 45.4 [113 - 149]		45.7 - 57.0 [150 - 187]		57.3 - 68.3 [188 - 224]		68.6 - 79.9 [225 - 262]		80.2 - 91.4 [263 - 300]	
38AUZ_07 TC 68.5, SC 3.1°C [5.57°F]	Liquid Line Size (in.)	3/8	3/8	1/2	1/2	5/8	1/2	5/8	1/2	5/8	1/2	5/8	1/2	5/8	1/2	5/8	
	Liquid PD (°C[°F])	1.1 [2.0]	2.2 [4.0]	0.4 [0.7]	0.6 [1.1]	0.2 [0.3]	0.8 [1.4]	0.2 [0.4]	1.0 [1.8]	0.3 [0.5]	1.2 [2.1]	0.3 [0.6]	1.4 [2.5]	0.4 [0.7]	1.6 [2.8]	0.4 [0.8]	
	Max Lift (m [ft])	5.5 [18]	2.1 [7]	10.4 [34]	9.4 [31]	11.9 [39]	13.4 [44]	17.4 [57]	12.5 [41]	17.4 [57]	10.7 [35]	16.5 [54]	9.4 [31]	16.2 [53]	8.2 [27]	15.8 [52]	
	Max Lift PD (°C[°F])	1.9 [3.5]	2.6 [4.6]	1.9 [3.5]	1.9 [3.5]	1.9 [3.5]	2.8 [5.0]	2.8 [5.0]	2.8 [5.0]	2.8 [5.0]	2.7 [4.9]	2.8 [5.0]	2.8 [5.0]	2.8 [5.0]	2.8 [5.0]	2.8 [5.0]	
	Suction Line Size (in.)	7/8	7/8	1-1/8	7/8	1-1/8	7/8	1-1/8	7/8	1-1/8	1-1/8		1-1/8		1-1/8		
	Suction Line PD (°C[°F])	0.5 [0.9]	1.0 [1.8]	0.3 [0.5]	1.5 [2.7]	0.4 [0.8]	2.0 [3.6]	0.6 [1.0]	2.5 [4.5]	0.7 [1.3]	0.9 [1.6]	—		1.0 [1.8]	—		
	Charge (kg [lb])	4.9 [10.8]	5.4 [11.8]	6.2 [13.7]	6.9 [15.2]	8.4 [18.5]	7.7 [16.9]	9.7 [21.3]	8.5 [18.7]	11.0 [24.2]	9.7 [21.4]	12.3 [27.1]	10.6 [23.4]	13.6 [30.0]	11.5 [25.3]	14.9 [32.8]	
	#/TR	1.90	2.07	2.41	2.67	3.25	2.97	3.74	3.28	4.25	3.8	4.75	4.1	5.26	4.4	5.75	
38AUZ(D,E) 08 TC 92.0, SC 6.3°C [11.3°F]	Liquid Line Size (in.)	1/2	1/2	5/8	1/2	5/8	1/2	5/8	1/2	5/8	1/2	5/8	1/2	5/8	1/2	5/8	
	Liquid PD (°C[°F])	0.3 [0.6]	0.7 [1.3]	0.2 [0.3]	1.1 [1.9]	0.3 [0.5]	1.4 [2.5]	0.4 [0.7]	1.8 [3.2]	0.5 [0.9]	2.1 [3.8]	0.6 [1.0]	2.4 [4.4]	0.7 [1.2]	2.8 [5.1]	0.8 [1.4]	
	Max Lift (m [ft])	7.6 [25]	15.2 [50]	15.2 [50]	22.9 [75]	22.9 [75]	30.5 [100]	30.5 [100]	29.6 [97]	29.6 [97]	27.5 [90]	27.5 [90]	25.0 [82]	36.9 [121]	22.5 [74]	36.3 [119]	
	Max Lift PD (°C[°F])	1.5 [2.7]	3.0 [5.4]	2.5 [4.5]	4.5 [8.1]	3.7 [6.7]	6.0 [10.8]	5.0 [9.0]	6.2 [11.2]	4.9 [8.9]	6.2 [11.2]	4.7 [8.5]	6.2 [11.2]	6.2 [11.2]	6.2 [11.2]	6.2 [11.2]	
	Suction Line Size (in.)	7/8	7/8	1-1/8	7/8	1-1/8	1-1/8		1-1/8	1-3/8	1-1/8	1-3/8	1-1/8	1-3/8	1-1/8	1-3/8	
	Suction Line PD (°C[°F])	0.8 [1.5]	1.7 [3.1]	0.4 [0.8]	2.6 [4.6]	0.7 [1.2]	0.9 [1.6]		1.2 [2.1]	0.4 [0.7]	1.4 [2.5]	1.4 [2.5]	0.4 [0.8]	1.6 [2.9]	0.6 [1.0]	1.8 [3.3]	
	Charge (kg [lb])	7.1 [15.6]	8.6 [19.0]	8.9 [19.7]	9.4 [20.8]	10.9 [24.1]	10.5 [23.1]	12.2 [26.9]	11.4 [25.1]	13.9 [30.7]	11.8 [26.0]	14.9 [32.8]	12.2 [27.0]	15.8 [34.8]	12.7 [27.9]	16.8 [37.1]	
	#/TR	2.08	2.53	2.63	2.77	3.21	3.08	3.59	3.35	4.09	3.47	4.37	3.60	4.64	3.73	4.95	

38AUD Piping Recommendations (Dual-Circuit)^a

MODEL and NOMINAL CAPACITY	LINEAR LINE (m [ft])	0 - 7.3 [0 - 24]	7.6 - 14.9 [25 - 49]	15.2 - 22.6 [50 - 74]		22.8 - 30.2 [75 - 99]		30.5 - 37.8 [100 - 124]		38.1 - 45.4 [125 - 149]		45.7 - 53.0 [150 - 174]		53.3 - 60.7 [175 - 200]		
	EQUIV. LINE (m [ft])	0 - 11.3 [0 - 37]	11.6 - 22.6 [38 - 74]	22.8 - 34.1 [75 - 112]		34.4 - 45.4 [113 - 149]		45.7 - 57.0 [150 - 187]		57.3 - 68.3 [188 - 224]		68.6 - 79.9 [225 - 262]		80.2 - 91.4 [263 - 300]		
38AUD_12 TC 55.9 Each, SC 7.1°C [12.7°F]	Liquid Line Size (in.)	3/8	3/8	3/8		3/8	1/2	3/8	1/2	3/8	1/2	3/8	1/2	5/8	1/2	5/8
	Liquid PD (°C[°F])	0.8 [1.4]	1.5 [2.7]	3.1 [5.5]		3.1 [5.5]	0.5 [0.9]	3.8 [6.9]	0.6 [1.1]	4.6 [8.2]	0.8 [1.4]	0.9 [1.6]	0.3 [0.5]	1.0 [1.8]	0.3 [0.5]	
	Max Lift (m [ft])	7.6 [25]	15.2 [50]	22.9 [75]		25 [82]	30.5 [100]	20.1 [66]	38.1 [125]	14.9 [49]	40.5 [133]	39.6 [130]	43.9 [144]	39.0 [128]	43.9 [144]	
	Max Lift PD (°C[°F])	1.9 [3.4]	3.8 [6.8]	5.7 [10.2]		6.7 [12.1]	5.0 [9.0]	6.7 [12.1]	6.2 [11.2]	6.7 [12.1]	6.7 [12.1]	6.7 [12.1]	6.7 [12.1]	6.7 [12.1]	6.7 [12.1]	
	Suction Line Size (in.)	3/4	7/8	7/8		7/8	1-1/8	7/8	1-1/8	1-1/8		1-1/8		1-1/8		
	Suction Line PD (°C[°F]) (Cap Red)	0.8 [1.4]	0.7 [1.2]	1.0 [1.8]		1.4 [2.5] (-0.8%)	0.4 [0.8]	1.7 [3.1] (-1.9%)	0.5 [0.9]	0.6 [1.1]		0.7 [1.3]		0.8 [1.5]		
	Charge (kg [lb])	4.1 [9.0]	4.5 [10.0]	5.0 [11.0]		5.5 [12.1]	7.1 [15.7]	5.9 [13.1]	8.0 [17.7]	6.8 [14.9]	8.9 [19.6]	9.8 [21.5]	12.8 [28.2]	10.7 [23.5]	14.1 [31.0]	
	#/TR	0.73	0.81	0.89		0.97	1.27	1.05	1.42	1.20	1.58	1.74	2.27	1.89	2.50	
38AUD_14 TC 69.8 Each, SC 7.9°C [14.2°F]	Liquid Line Size (in.)	3/8	3/8	3/8		3/8	1/2	3/8	1/2	1/2		1/2	5/8	1/2	5/8	
	Liquid PD (°C[°F])	1.2 [2.1]	2.3 [4.1]	3.4 [6.2]		4.6 [8.2]	0.8 [1.5]	5.7 [10.3]	1.0 [1.8]	1.2 [2.2]		1.4 [2.6]	0.4 [0.7]	1.6 [2.9]	0.4 [0.8]	
	Max Lift (m [ft])	7.6 [25]	15.2 [50]	22.9 [75]		21.0 [69]	47.5 [155]	12.8 [42]	38.1 [125]	44.2 [145]		42.7 [140]	49.7 [163]	41.1 [135]	49.4 [162]	
	Max Lift PD (°C[°F])	2.2 [4.0]	4.5 [8.1]	6.7 [12.1]		7.6 [13.6]	5.2 [9.4]	7.6 [13.6]	6.5 [11.7]	7.6 [13.6]		7.6 [13.6]	7.6 [13.6]	7.6 [13.6]	7.6 [13.6]	
	Suction Line Size (in.)	1-3/8 ^b	1-3/8 ^b	7/8	1-1/8	1-1/8		1-1/8		1-1/8		1-1/8		1-1/8		
	Suction Line PD (°C[°F]) (Cap Red)	0.2 [0.3]	0.3 [0.6]	1.6 [2.9] (-1.5%)	0.4 [0.8]	0.6 [1.1]		0.8 [1.4]		0.9 [1.6]		1.1 [1.9]		1.2 [2.2] (-0.3%)	0.4 [0.7]	
	Charge (kg [lb])	7.5 [16.5]	8.1 [17.9]	8.6 [19.0]	8.8 [19.5]	9.3 [20.6]	10.8 [23.7]	9.9 [21.8]	11.7 [25.7]	12.5 [27.6]		13.4 [29.5]	16.4 [36.2]	14.3 [31.5]	17.7 [39.0]	
	#/TR	1.44	1.56	1.52	1.56	1.65	1.90	1.74	2.05	2.21		2.36	2.89	2.52	3.12	
38AUD_16 TC 92.9 Each, SC 8.4°C [15.1°F]	Liquid Line size	3/8	3/8	3/8		1/2	1/2		1/2		1/2	5/8	1/2	5/8	1/2	5/8
	Liquid PD (°C[°F])	1.9 [3.4]	3.8 [6.9]	5.7 [10.3]		1.1 [1.9]	1.4 [2.6]		1.8 [3.2]		2.2 [3.9]	0.6 [1.0]	2.5 [4.5]	0.7 [1.2]	2.8 [5.1]	0.8 [1.4]
	Max Lift (m [ft])	7.6 [25]	15.2 [50]	9.8 [32]		22.9 [75]	43.9 [144]		38.1 [125]		38.7 [127]	45.7 [150]	36.9 [121]	48.5 [159]	34.1 [112]	47.9 [157]
	Max Lift PD (°C[°F])	3.1 [5.5]	6.2 [11.1]	7.2 [13.0]		4.6 [8.2]	6.1 [10.9]		7.6 [13.7]		8.1 [14.5]	7.6 [13.6]	8.1 [14.5]	8.1 [14.5]	8.1 [14.5]	8.1 [14.5]
	Suction Line size	1-3/8	1-3/8	1-1/8		1-1/8		1-1/8	1-3/8	1-1/8	1-3/8	1-1/8	1-3/8	1-1/8	1-3/8	1-1/8
	Suction Line PD (°C[°F]) (Cap Red)	0.3 [0.5]	0.6 [1.0]	0.7 [1.2]		0.9 [1.6]		1.1 [2.0] (-0.1%)	0.4 [0.7]	1.4 [2.5] (-0.8%)	0.4 [0.8]	1.6 [2.9] (-1.5%)	0.6 [1.0]	1.8 [3.3] (-2.2%)	0.6 [1.1]	0.6 [1.1]
	Charge (kg [lb])	10.3 [22.6]	10.8 [23.9]	8.8 [19.5]	9.9 [21.8]	10.8 [23.7]		11.7 [25.7]	12.1 [26.6]	12.5 [27.6]	15.6 [34.4]	13.4 [29.5]	17.0 [37.4]	14.3 [31.5]	18.4 [40.5]	18.4 [40.5]
	#/TR	1.42	1.50	1.55	1.73	1.89		2.04	2.11	2.19	2.73	2.35	2.97	2.50	3.22	3.22
38AUD_25 TC 121.2 Each, SC 5.9°C [10.6°F]	Liquid Line size	3/8	1/2	1/2	5/8	1/2	5/8	1/2	5/8	1/2	5/8	5/8		5/8	3/4	3/4
	Liquid PD (°C[°F])	3.1 [5.6]	1.2 [2.2]	1.8 [3.3]	0.5 [0.9]	2.4 [4.3]	0.7 [1.2]	3.0 [5.4]	0.8 [1.5]	3.6 [6.5]	1.0 [1.8]	1.2 [2.1]		1.3 [2.4]	0.7 [1.3]	0.7 [1.3]
	Max Lift (m [ft])	7.6 [25]	15.2 [50]	19.5 [64]	22.9 [75]	21.3 [70]	32.9 [108]	16.8 [55]	31.7 [104]	12.8 [42]	30.5 [100]	29.6 [97]		28.0 [92]	32.6 [107]	32.6 [107]
	Max Lift PD (°C[°F])	4.3 [7.7]	3.5 [6.3]	4.7 [8.5]	3.9 [7.1]	5.6 [10.0]	5.2 [9.4]	5.5 [9.9]	5.6 [10.0]	5.6 [10.0]	5.6 [10.0]	5.6 [10.0]		5.5 [9.9]	5.6 [10.0]	5.6 [10.0]
	Suction Line size	1-1/8	1-1/8	1-1/8	1-3/8	1-1/8	1-3/8	1-1/8	1-3/8	1-3/8		1-3/8		1-3/8		1-3/8
	Suction Line PD (°C[°F]) (Cap Red)	0.4 [0.7]	0.7 [1.3]	1.1 [2.0]	0.4 [0.7]	1.5 [2.7] (-1.2%)	0.6 [1.0]	1.9 [3.4] (-2.4%)	0.6 [1.2]	0.7 [1.4]		0.9 [1.7]		1.1 [1.9]		1.1 [1.9]
	Charge (kg [lb])	6.9 [15.2]	8.1 [17.9]	9.0 [19.8]	10.5 [23.2]	9.8 [21.7]	11.9 [26.2]	10.8 [23.7]	13.3 [29.3]	12.1 [26.7]	14.7 [32.4]	16.1 [35.4]		17.5 [38.5]	22.0 [48.5]	22.0 [48.5]
	#/TR	1.20	1.41	1.56	1.83	1.72	2.07	1.87	2.31	2.11	2.56	2.80		3.04	3.83	3.83

38AUD Piping Recommendations (Dual-Circuit)^a (cont)

MODEL and NOMINAL CAPACITY	LINEAR LINE (m [ft])	0 - 7.3 [0 - 24]	7.6 - 14.9 [25 - 49]	15.2 - 22.6 [50 - 74]	22.8 - 30.2 [75 - 99]	30.5 - 37.8 [100 - 124]	38.1 - 45.4 [125 - 149]	45.7 - 53.0 [150 - 174]	53.3 - 60.7 [175 - 200]							
	EQUIV. LINE (m [ft])	0 - 11.3 [0 - 37]	11.6 - 22.6 [38 - 74]	22.8 - 34.1 [75 - 112]	34.4 - 45.4 [113 - 149]	45.7 - 57.0 [150 - 187]	57.3 - 68.3 [188 - 224]	68.6 - 79.9 [225 - 262]	80.2 - 91.4 [263 - 300]							
38AUD_28 TC 281.9 Each, SC 7.7°C [13.9°F]	Liquid Line size	1/2	1/2 5/8	5/8 3/4	5/8 3/4	5/8 3/4	3/4 7/8	3/4 7/8	3/4 7/8							
	Liquid PD (°C[°F])	2.3 [4.2]	4.7 [8.5]	1.7 [3.0]	2.6 [4.6]	1.3 [2.4]	3.4 [6.1]	1.8 [3.2]	4.3 [7.7]	2.2 [4.0]	2.7 [4.8]	0.8 [1.5]	3.1 [5.6]	1.0 [1.8]	3.6 [6.4]	1.2 [2.1]
	Max Lift (m [ft])	7.6 [25]	4.3 [14]	15.2 [50]	14.6 [48]	22.9 [75]	12.8 [42]	24.0 [79]	7.0 [23]	21.0 [69]	18.0 [59]	30.2 [99]	14.9 [49]	29.3 [96]	11.9 [39]	28.3 [93]
	Max Lift PD (°C[°F])	3.5 [6.3]	5.3 [9.6]	3.9 [7.1]	4.7 [8.4]	4.7 [8.4]	5.3 [9.5]	5.3 [9.5]	5.3 [9.5]	5.3 [9.5]	5.3 [9.5]	5.3 [9.5]	5.3 [9.5]	5.3 [9.5]	5.3 [9.5]	5.3 [9.5]
	Suction Line size	1-1/8	1-3/8	1-5/8	1-3/8	1-5/8	1-5/8		1-5/8		1-5/8		1-5/8		2-1/8	
	Suction Line PD (°C[°F]) (Cap Red)	2.3 [4.2] (-4.0%)	1.6 [2.8] (-1.6%)	0.7 [1.2]	2.4 [4.3] (-4.2%)	1.0 [1.8]	1.3 [2.4]		1.7 [3.0] (-1.9%)		2.0 [3.6] (-2.9%)		2.3 [4.2] (-4.0%)		1.1 [1.9]	
	Charge (kg [lb])	11.7 [25.8]	12.7 [28.1]	13.8 [30.4]	15.3 [33.7]	17.7 [39.1]	17.8 [39.2]	20.0 [44.2]	19.5 [43.1]	22.4 [49.3]	24.7 [54.4]	28.7 [63.3]	27.0 [59.5]	31.7 [69.8]	29.3 [64.6]	34.7 [76.4]
	#/TR	1.10	1.20	1.30	1.44	1.67	1.67	1.88	1.83	2.10	2.32	2.69	2.53	2.97	2.75	3.25

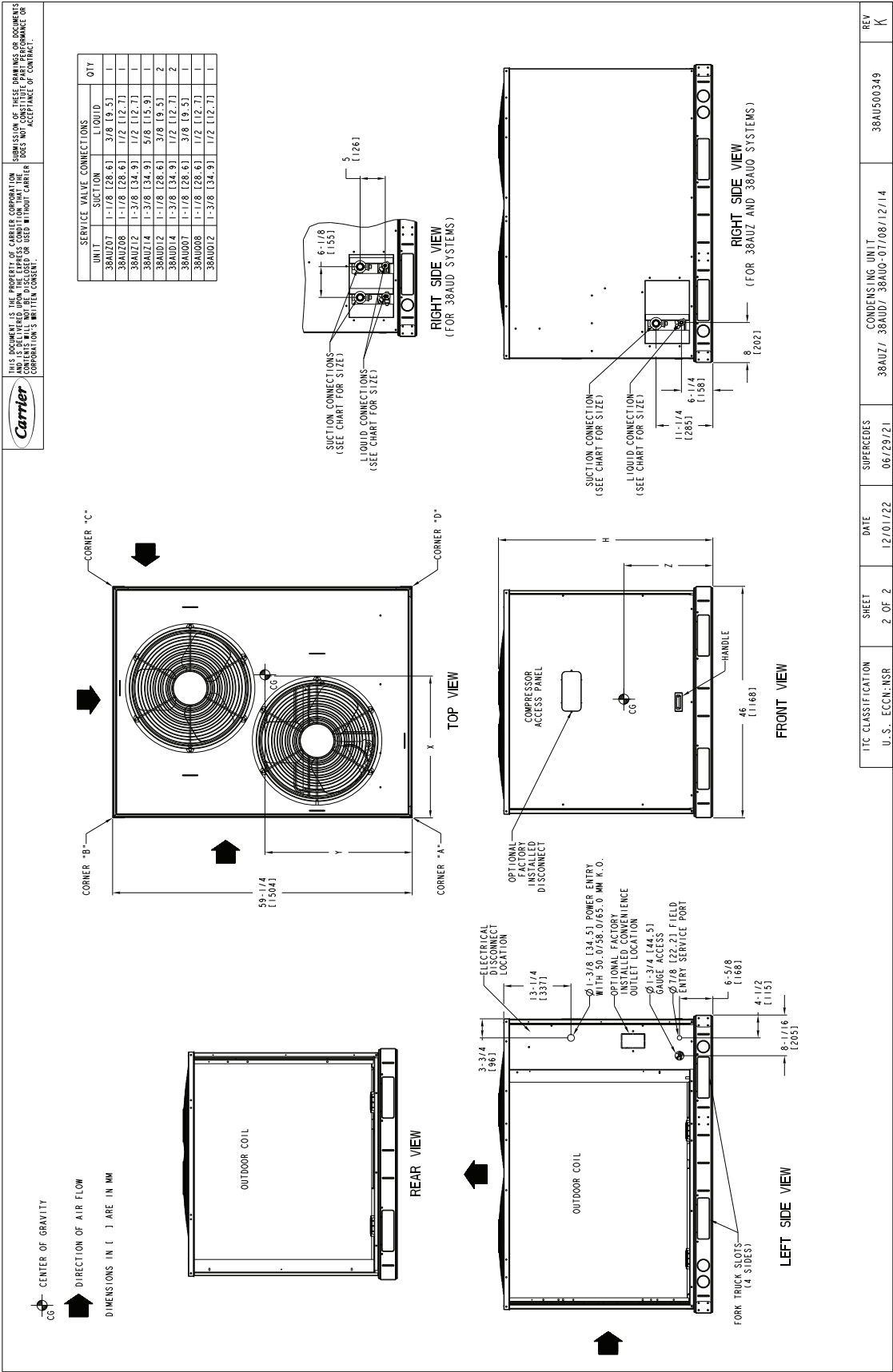
NOTE(S):

- 38AUD units require TWO sets of refrigeration piping.
- AHRI ratings as listed are only valid with the piping diameters specified.

LEGEND

#/TR	—	Charge to unit capacity ratio, lb per ton (at 7°C SST, 35°C ODA [45°F SST, 95°F ODA])
Cap Red	—	Capacity reduction caused by suction line pressure drop > 1°C (2°F)
Liquid PD (°C)	—	Liquid line pressure drop, saturated temperature, °C (°F)
Max Lift	—	Maximum liquid lift (Indoor unit ABOVE outdoor unit only), at maximum permitted pressure drop.
Max Lift PD (°C)	—	Pressure drop including Maximum liquid lift value
SC	—	Sub-cooling, °C (°F) (at liquid line valve)

38AUD/Z 07-14 Base Unit Dimensions

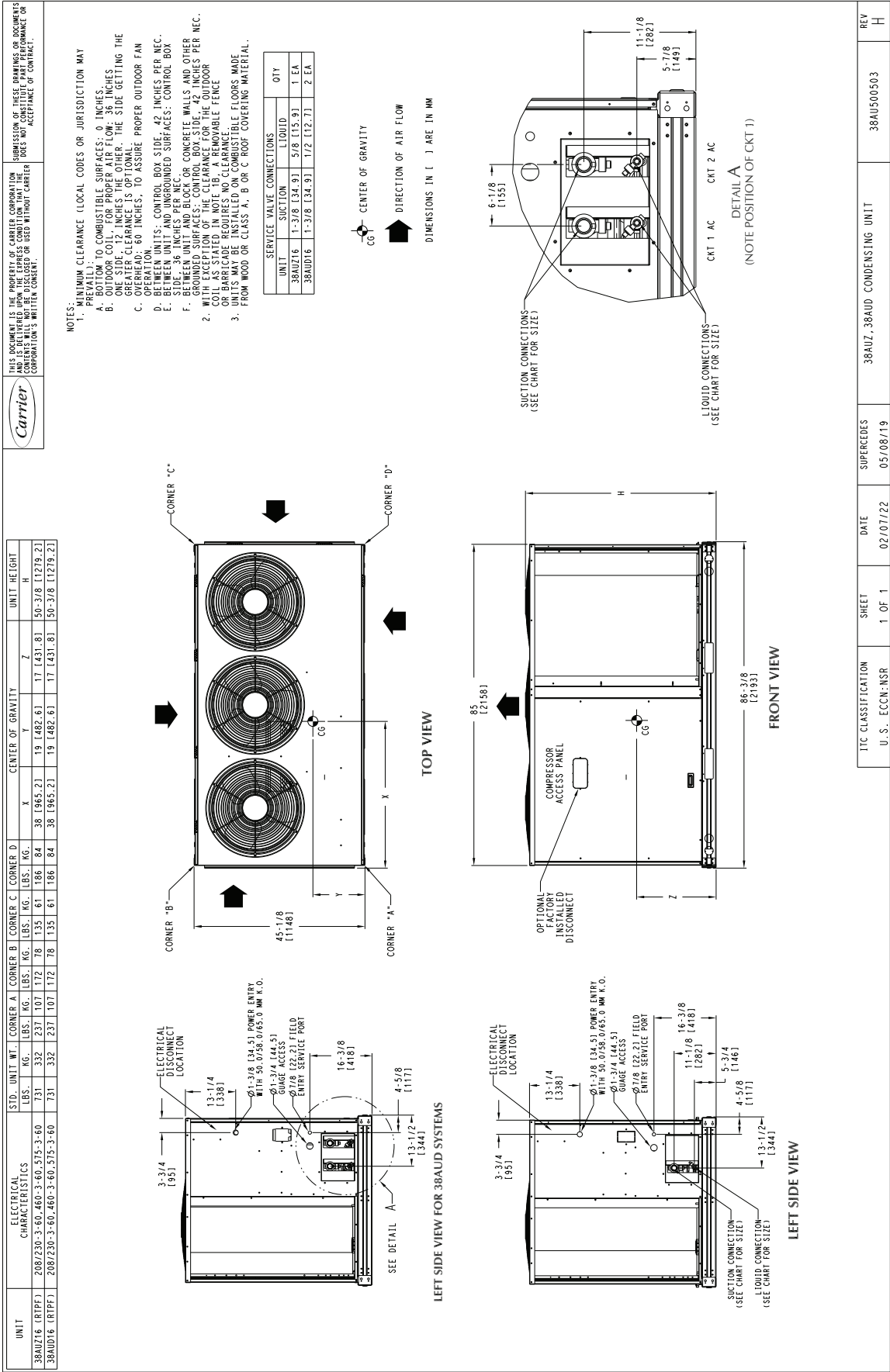


REV	CONDENSING UNIT	SUPERCEDES	DATE	SHEET	U.S. ECCN:NSR
K	38AUZ/ 38AUD/ 38AUO-07/08/12/14	06/29/21	12/01/22	2 OF 2	U.S. ECCN:NSR

Base unit dimensions (cont)



38AUD/Z 16 Base Unit Dimensions



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Carrier

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UNIT

UNIT	ELECTRICAL CHARACTERISTICS		STD. UNIT WT. LBS.	CORNER A				CORNER B				CORNER C				CORNER D				CENTER OF GRAVITY				UNIT HEIGHT
	LBS.	KG.		LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	X	Y	Z				
38AU225 (RTPF)	208	230.3	60.460	3-60	575	3-60	978	444	360	163	168	85	147	61	263	128	38	1965.2	23	1584.2	17	1431.8	50-3/8	11219.2
38AU225 (RTPF)	208	230.3	60.460	3-60	575	3-60	978	444	360	163	168	85	147	61	263	128	38	1965.2	23	1584.2	17	1431.8	50-3/8	11219.2
38AU228 (RTPF)	208	230.3	60.460	3-60	575	3-60	978	444	321	148	210	95	173	78	249	122	39	1990.6	26.25	1686.8	17	1431.8	50-3/8	11219.2

NOTES:

- MINIMUM CLEARANCE (LOCAL CODES OR JURISDICTION MAY PREVAIL):
 - A. BOTTOM TO COMBUSTIBLE SURFACES: 0 INCHES.
 - B. OUTDOOR COIL, FOR PROPER AIR FLOW: 36 INCHES ONE SIDE, 12 INCHES THE OTHER. THE SIDE GETTING THE GREASED SURFACES, OPTIMUM CLEARANCE IS 60 INCHES.
 - C. OUTDOOR COIL, FOR PROPER AIR FLOW: 36 INCHES ONE SIDE, 12 INCHES THE OTHER. THE SIDE GETTING THE GREASED SURFACES, OPTIMUM CLEARANCE IS 60 INCHES.
 - D. BETWEEN UNITS: CONTROL BOX SIDE, 42 INCHES PER NEC.
 - E. BETWEEN UNIT AND UNGROUND SURFACES: CONTROL BOX SIDE, 42 INCHES PER NEC.
 - F. BETWEEN UNIT AND BLOCK OR CONCRETE WALLS AND OTHER GROUNDED SURFACES: CONTROL BOX SIDE, 42 INCHES PER NEC.
- WITH EXCEPTION OF THE CLEARANCE FOR THE OUTDOOR COIL AS STATED IN NOTE B, A REMOVABLE FENCE OR BARRIER SHALL BE INSTALLED TO PREVENT ACCESS TO THE UNITS.
- UNITS MAY BE INSTALLED ON COMBUSTIBLE FLOORS MADE FROM WOOD OR CLASS A, B OR C ROOF COVERING MATERIAL.

LEFT SIDE VIEW FOR 38AUD SYSTEMS

SEE DETAIL A

TOP VIEW

CG

CORNER "A"

CORNER "B"

CORNER "C"

CORNER "D"

X

Y

Z

LEFT SIDE VIEW

SEE DETAIL A

FRONT VIEW

CG

OPTIONAL FACTORY INSTALLED DISCONNECT

COMPRESSOR ACCESS PANEL

HANDLE

FORK TRUCK SLOTS BOTH SIDES

86-3/8 (2193)

LEFT SIDE VIEW

SEE DETAIL A

FRONT VIEW

CG

OPTIONAL FACTORY INSTALLED DISCONNECT

COMPRESSOR ACCESS PANEL

HANDLE

FORK TRUCK SLOTS BOTH SIDES

86-3/8 (2193)

LEFT SIDE VIEW

SEE DETAIL A

FRONT VIEW

CG

OPTIONAL FACTORY INSTALLED DISCONNECT

COMPRESSOR ACCESS PANEL

HANDLE

FORK TRUCK SLOTS BOTH SIDES

86-3/8 (2193)

LEFT SIDE VIEW

SEE DETAIL A

FRONT VIEW

CG

OPTIONAL FACTORY INSTALLED DISCONNECT

COMPRESSOR ACCESS PANEL

HANDLE

FORK TRUCK SLOTS BOTH SIDES

86-3/8 (2193)

LEFT SIDE VIEW

SEE DETAIL A

FRONT VIEW

CG

OPTIONAL FACTORY INSTALLED DISCONNECT

COMPRESSOR ACCESS PANEL

HANDLE

FORK TRUCK SLOTS BOTH SIDES

86-3/8 (2193)

38AU*07-14 Corner Weights

UNIT	STD UNIT WEIGHT		A CORNER		B CORNER		C CORNER		D CORNER		CENTER OF GRAVITY						UNIT HEIGHT	
											X		Y		V			
	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	mm	in.	mm	in.	mm	in.	mm	in.
38AUZ(D,E)07	176	389	64	141	44	96	28	62	41	91	457	18	610	24	533	21	1,076	42-3/8
38AUZ(D,E)08	195	430	64	142	44	96	34	76	50	111	457	18	610	24	533	21	1,076	42-3/8
38AUD*12	234	516	84	185	53	117	38	83	59	131	483	19	584	23	610	24	1,280	50-3/8
38AUD*14	297	654	97	214	70	155	54	120	75	165	508	20	635	25	610	24	1,280	50-3/8

38AUZ/38AUD Factory-Installed Options

ITEM	OPTION ^a	ACCESSORY ^b
E-coated Aluminum-Fin Coils	X	
Pre-coated Coils	X	
Low-Ambient Temperature Kit (Motormaster I)	X	X
Louvered Hail Guard	X	X
Condenser Coil Grille		X
Non-fused Disconnect Switch ^c	X	
Thermostats		X

NOTE(S):

- a. Factory-installed option.
- b. Field-installed accessory.
- c. Non-fused disconnect switch cannot be used when unit MOCP electrical rating exceeds 80 amps.

E-coated Aluminum-Fin Coils

Have a flexible and durable epoxy coating uniformly applied to all coil surfaces. Unlike brittle phenolic dip and bake coatings, E-coating provides superior protection with unmatched flexibility, edge coverage, metal adhesion, thermal performance, and most importantly, corrosion resistance.

Pre-coated Coils

Provides protection in mild coastal environments.

Low-Ambient Temperature Kit (-29°C [-20°F])

Controls outdoor-fan motor operation to maintain the correct head pressure at low outdoor ambient temperatures.

Louvered Hail Guard

Protects coils against damage from flying debris and hail.

Non-Fused Disconnect Switch

Used to remove power locally at the condensing unit. This switch also includes a power lockout capability to protect the service person. This lockout switch saves the service person time and effort because there is no need to access a distant disconnect switch while servicing the unit.

NOTE: Non-fused disconnect switch cannot be used when unit MOCP electrical rating exceeds 80 amps.

38AUZ/D Field-Installed Accessories

Low-Ambient Temperature Kit (Motormaster® I) (-29°C [-20°F])

Controls outdoor-fan motor operation to maintain the correct head pressure at low outdoor ambient temperatures.

Louvered Hail Guard

Protects coils against damage from flying debris and hail.

Condenser Coil Grille

Protects condensing unit coil from impact by large objects and vandalism.

Thermostats

Provide both programmable and non-programmable capability with the new Carrier line of commercial programmable thermostats. The Commercial Electronic thermostats provide 7-day programmable capability for economical applications.

40RFA/40RUA Factory-Installed Options

ITEM	OPTION ^a	ACCESSORY ^b
Alternate Fan Motors	X	
Alternate Drives	X ^c	
CO ₂ Sensors		X
Condensate Drain Trap		X
Discharge Plenum		X
Economizer		X
Electric Heat		X
Hot Water Heating Coils		X
Overhead Suspension Package		X
Pre-painted Units	X	
Return Air Grille		X
Steam Heating Coil		X
Subbase		X

NOTE(S):

- a. Factory-installed option.
- b. Field-installed accessory.
- c. 40RUA only.

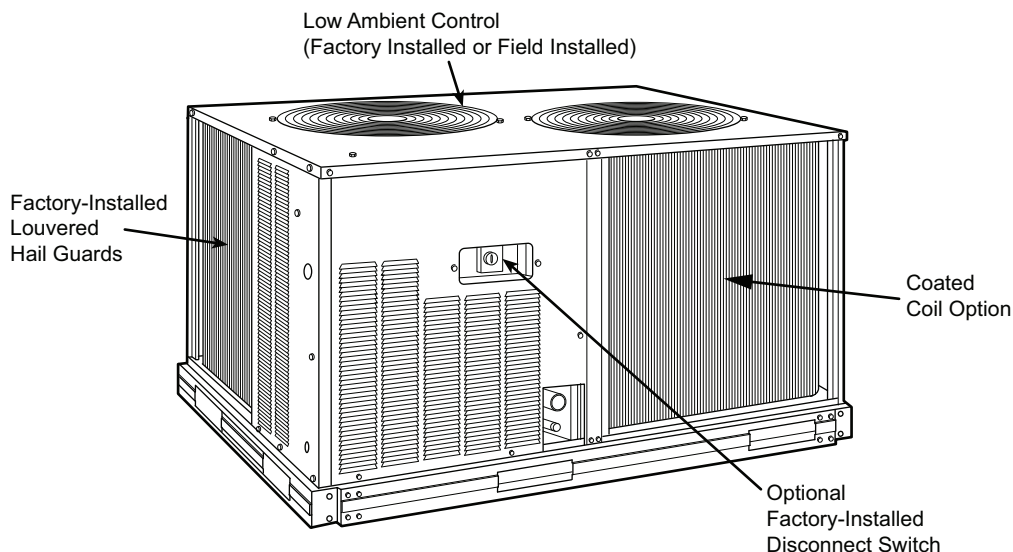
Alternate Fan Motors and Drives

Provide the widest possible range of performance.

Pre-painted Steel Constructed Units

Available from the factory for applications that require painted units. Unit color is American Sterling Gray.

38AUZ/38AUD Factory-Installed Options



40RFA/40RUA Field-Installed Accessories

Two-Row Hot Water Coils

The 5/8 in. diameter copper tubes are mechanically bonded to aluminum plate fins. Coils have non-ferrous headers.

One-Row Steam Coil

One inch (1 in.) OD copper tube and aluminum fins. The Inner Distributing Tube (IDT) design provides uniform temperatures across the coil face. The IDT steam coils are especially suited to applications where sub-freezing air enters the unit.

Electric Resistance Heat Coils

An open-wire design and are mounted in a rigid frame. Safety cutouts for high temperature conditions are standard.

Economizer

Provides ventilation air and provides “free” cooling if the outside ambient temperature and humidity are suitable. The economizer can also be used in conjunction with Carrier Comfort System thermostats and CO₂ sensors to help meet indoor air quality requirements. The economizer can be used in both vertical and horizontal positions.

Discharge Plenum

Directs the air discharge into the occupied space; integral horizontal and vertical louvers enable redirection of airflow. This accessory is available unpainted or painted.

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.

Subbase

A stable, raised platform and room for condensate drain connection for floor-mounted units. This accessory is available unpainted or painted. Overhead suspension package includes necessary brackets to support units in horizontal installations.

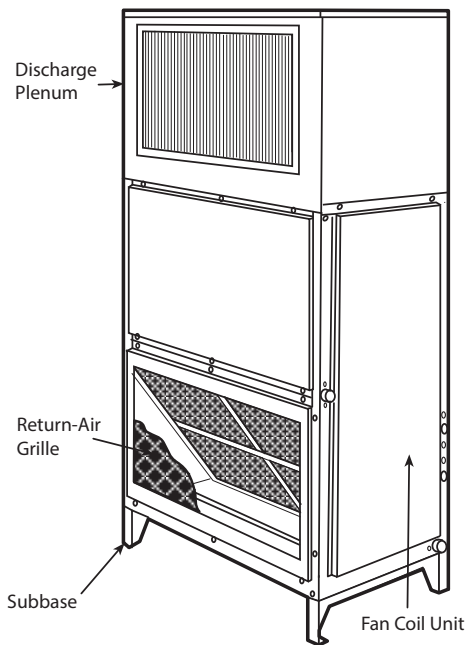
CO₂ Sensors

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 setpoint.

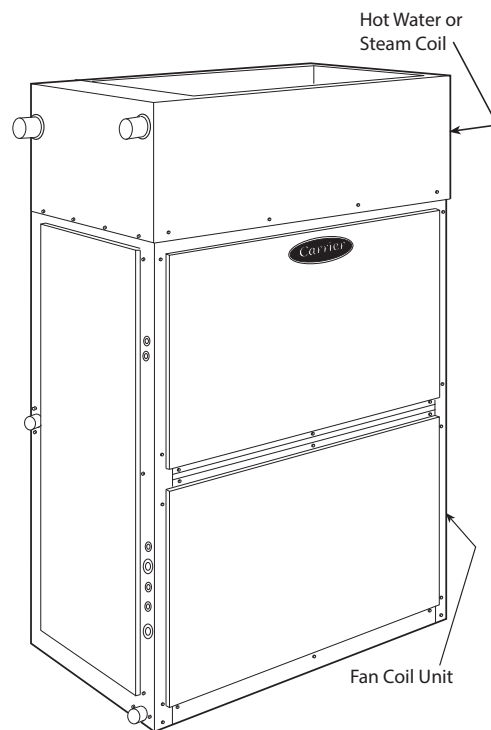
Condensate Drain Trap

Includes an overflow shutoff switch that can be wired to turn off the unit if the trap becomes plugged. The 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.

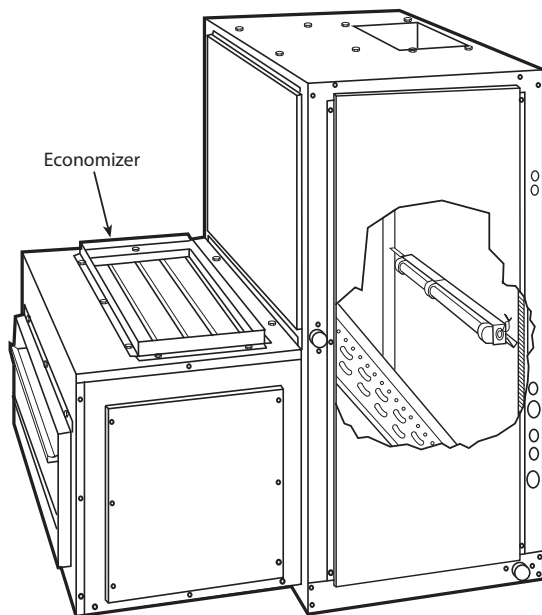
40RFA/40RUA with Discharge Plenum



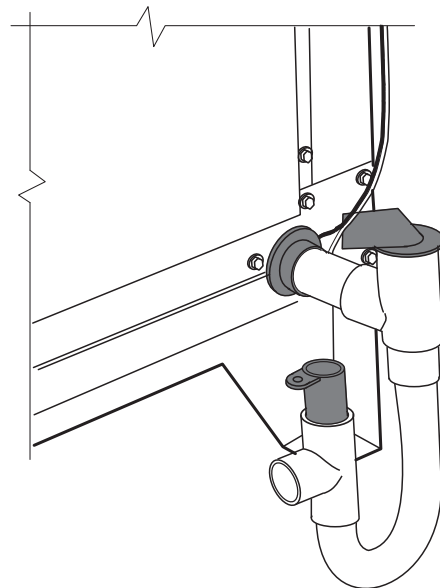
40RFA/40RUA with Hot Water or Steam Coil



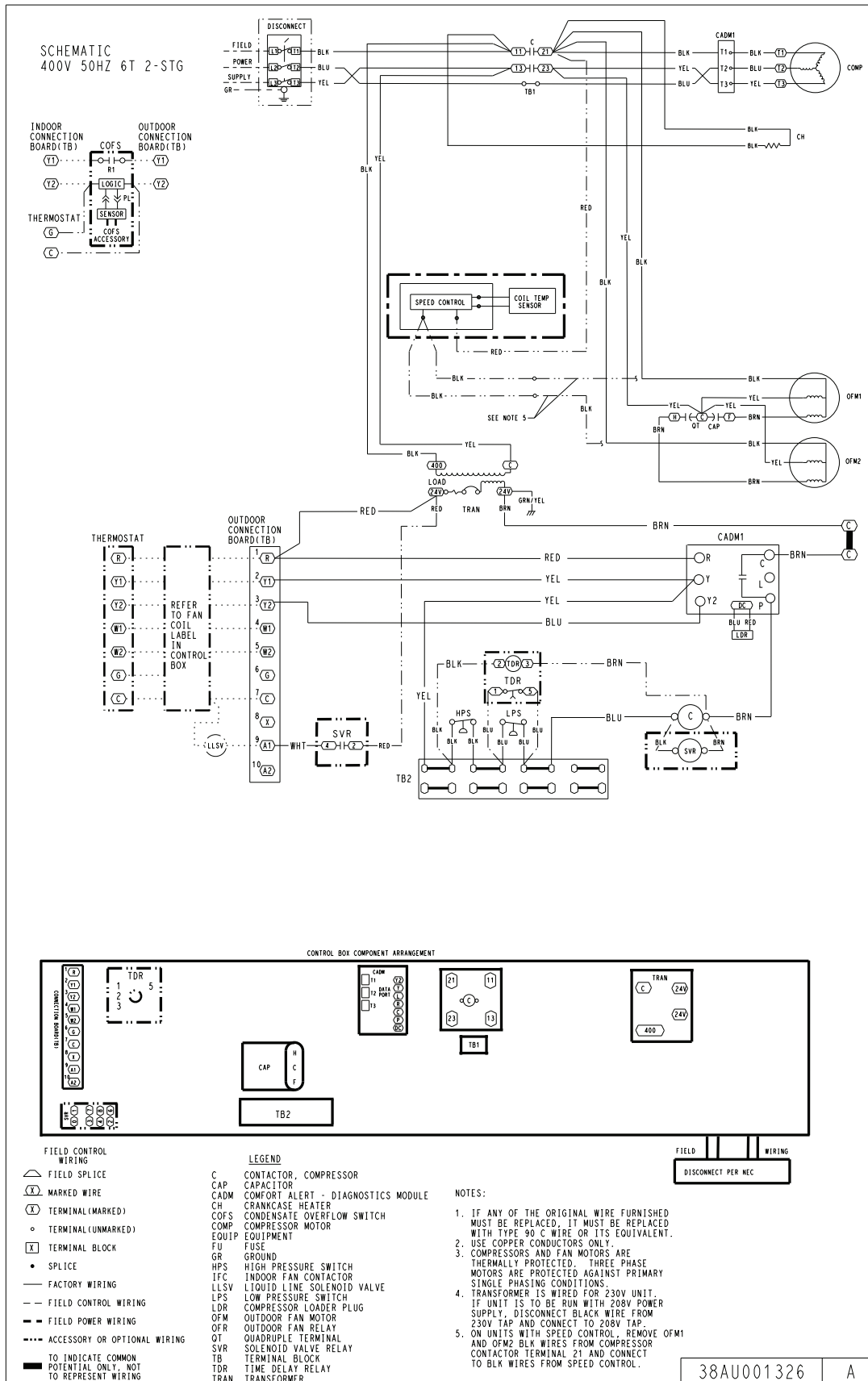
40RFA/40RUA with Economizer



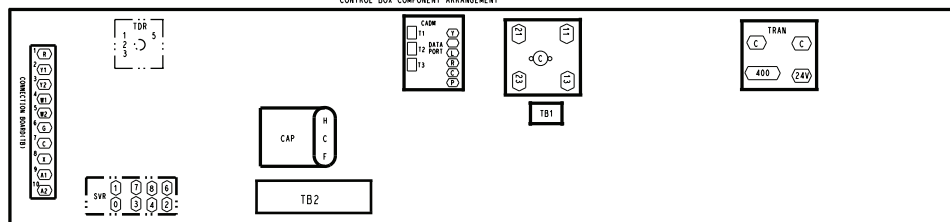
40RFA/40RUA with Condensate Trap



Typical Single Circuit/Two-Stage Wiring Diagram, 21 kW — 400-3-50 Units



SCHEMATIC
400V 50HZ 7.5T
SNGL, 2 STG



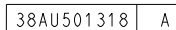
- | | | | |
|------------------------------|--|-------|------------------------------------|
| | | | LEGEND |
| FIELD CONTROL WIRING | | C | CONTACTOR, COMPRESSOR |
| | | CAP | CAPACITOR |
| | | CADM | COMFORT ALERT - DIAGNOSTICS MODULE |
| FIELD SPICE | | CH | CRANKCASE HEATER |
| | | COPS | CONDENSATE OVERFLOW SWITCH |
| MARKED WIRE | | COMP | COMPRESSOR MOTOR |
| | | CTD | CYCLE TIMER DEVICE |
| TERMINAL(MARKED) | | CTR | COMPRESSOR TIMERR RELAY |
| TERMINAL(UNMARKED) | | DGS | DIGITAL COMPRESSOR SOLENOID |
| | | EQUIP | EQUIP EQUIPMENT |
| TERMINAL BLOCK | | FUSE | FUSE |
| | | GR | GROUND |
| SPICE | | HPS | HIGH PRESSURE SWITCH |
| | | IFC | INDOOR FAN CONTACTOR |
| FACTORY WIRING | | LDR | COMPRESSOR LOADER PLUG |
| | | LLSV | LIQUID LINE SOLENOID VALVE |
| FIELD CONTROL WIRING | | LPS | LOW PRESSURE SWITCH |
| | | OFM | OUTDOOR FAN MOTOR |
| FIELD POWER WIRING | | OFR | OUTDOOR FAN RELAY |
| | | QT | QUADRUPLRE TERMINAL |
| ACCESSORY OR OPTIONAL WIRING | | SVR | SOLENOID VALVE RELAY |
| | | TB | TERMINAL BLOCK |
| TO INDICATE COMMON | | TOR | TIME DELAY RELAY |
| POTENTIAL ONLY, NOT | | TRAN | TRANSFORMER |
| TO REPRESENT WIRING | | | |

1. IF ANY OF THE ORIGINAL WIRE FURNISHED MUST BE REPLACED, IT MUST BE REPLACED WITH TYPE 90 C WIRE OR ITS EQUIVALENT.
2. USE COPPER CONDUCTORS ONLY.
3. COMPRESSORS AND FAN MOTORS ARE THERMALLY PROTECTED. THREE PHASE MOTORS ARE PROTECTED AGAINST PRIMARY SHORT CIRCUITING CONDITIONS.
4. TRANSFORMER IS WIRED FOR 230V UNIT. IF THE UNIT IS TO BE RUN WITH 208V POWER SUPPLY, DISCONNECT BLACK WIRE FROM 230V TAP AND CONNECT TO 208V TAP.
5. ON UNITS WITH SPEED CONTROL, REMOVE OPM AND BLK WIRE FROM WINDING MOTOR CONTACTOR TERMINAL 21 AND CONNECT TO BLK WIRES FROM SPEED CONTROL.

38AU001327

A

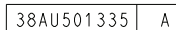
SCHEMATIC
10T-12.5T 400V 50HZ DUAL



SCHEMATIC
15T 400V 50HZ DUAL



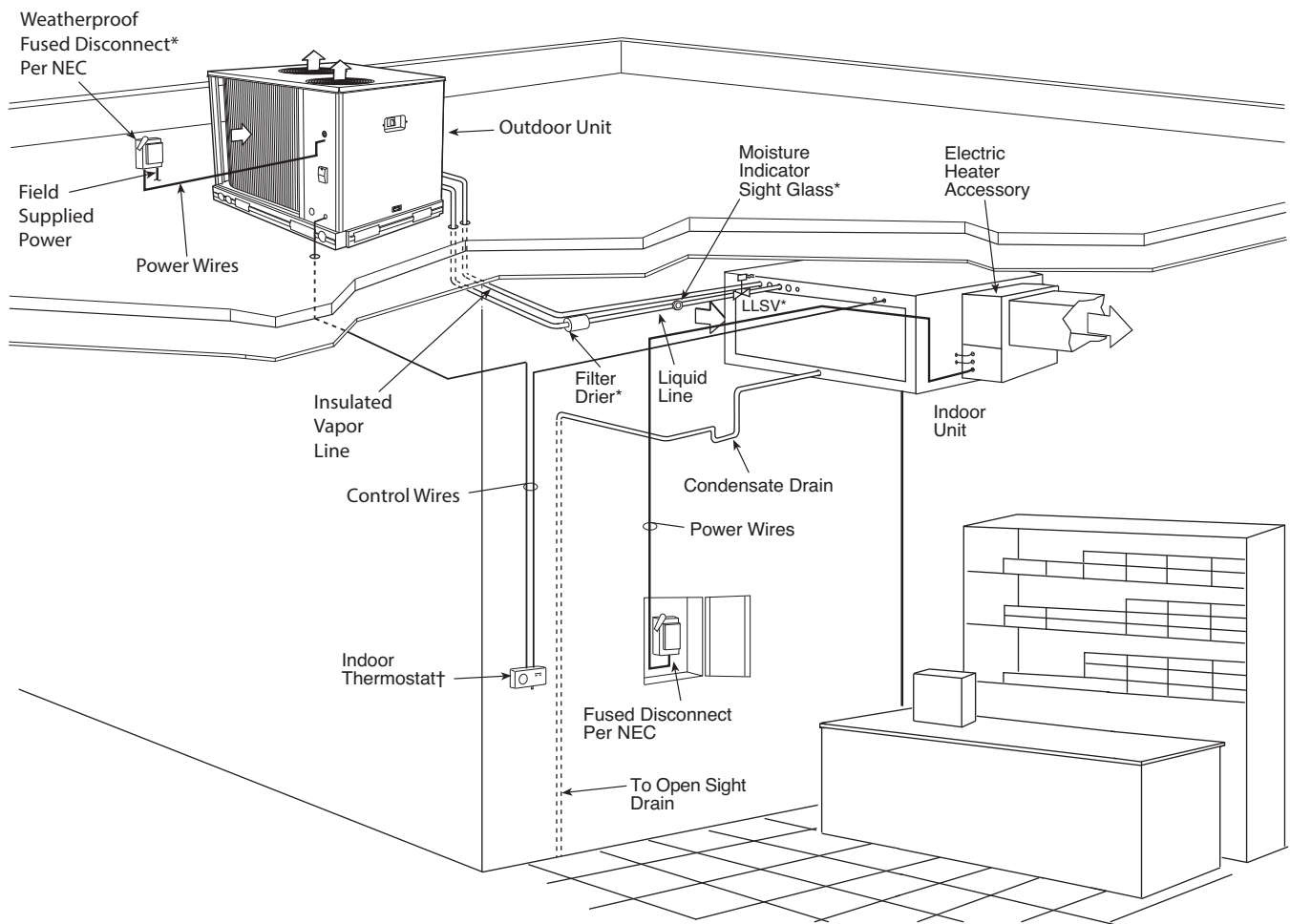
SCHEMATIC
20T 400V 50HZ DUAL



SCHEMATIC
25T 400V 50HZ DUAL



Roof Installation and Ceiling-Mounted Fan Coil



LEGEND

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

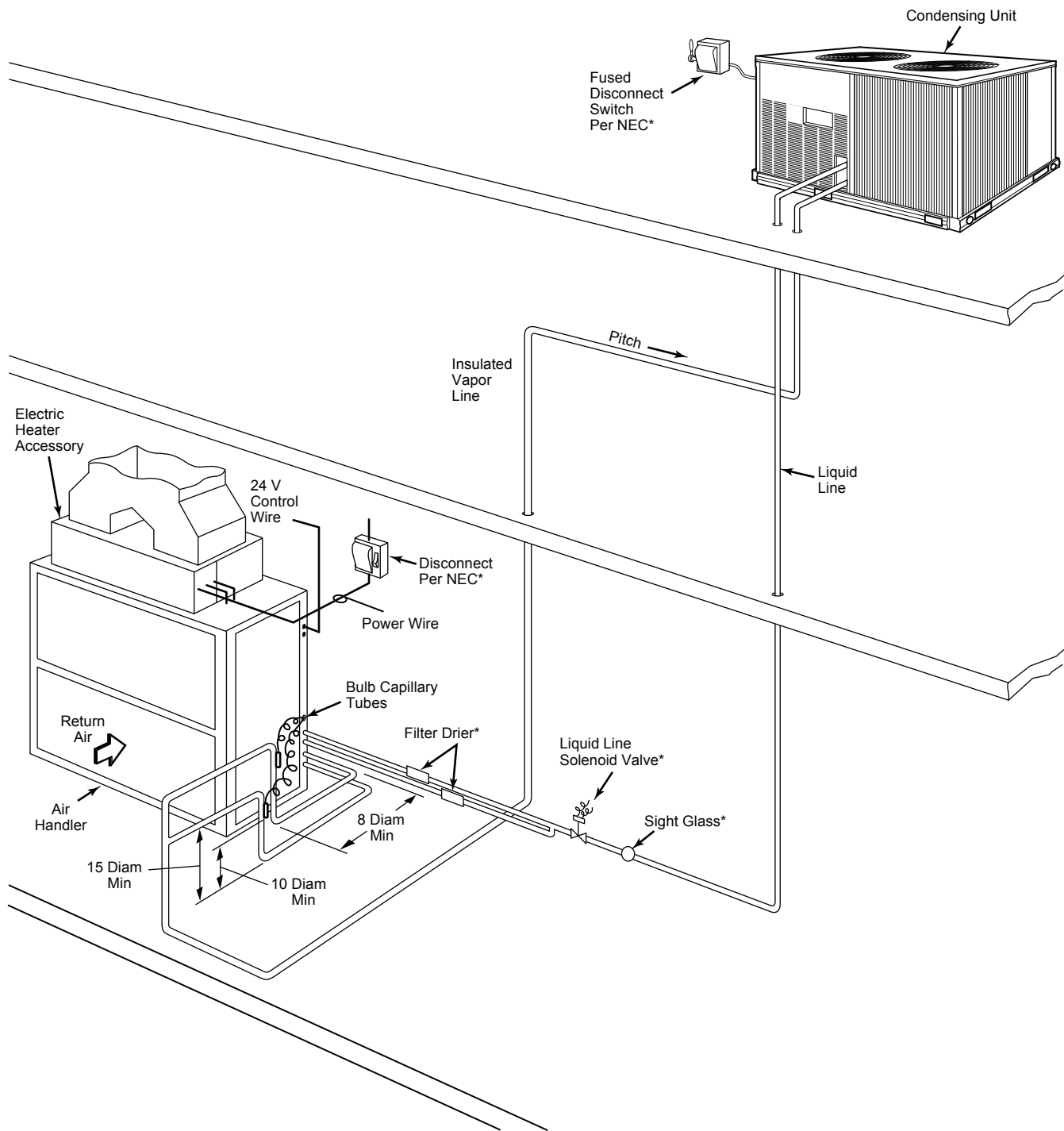
* Field-supplied.

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

NOTE(S):

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

Roof Installation and a Vertical Discharge Fan Coil



LEGEND

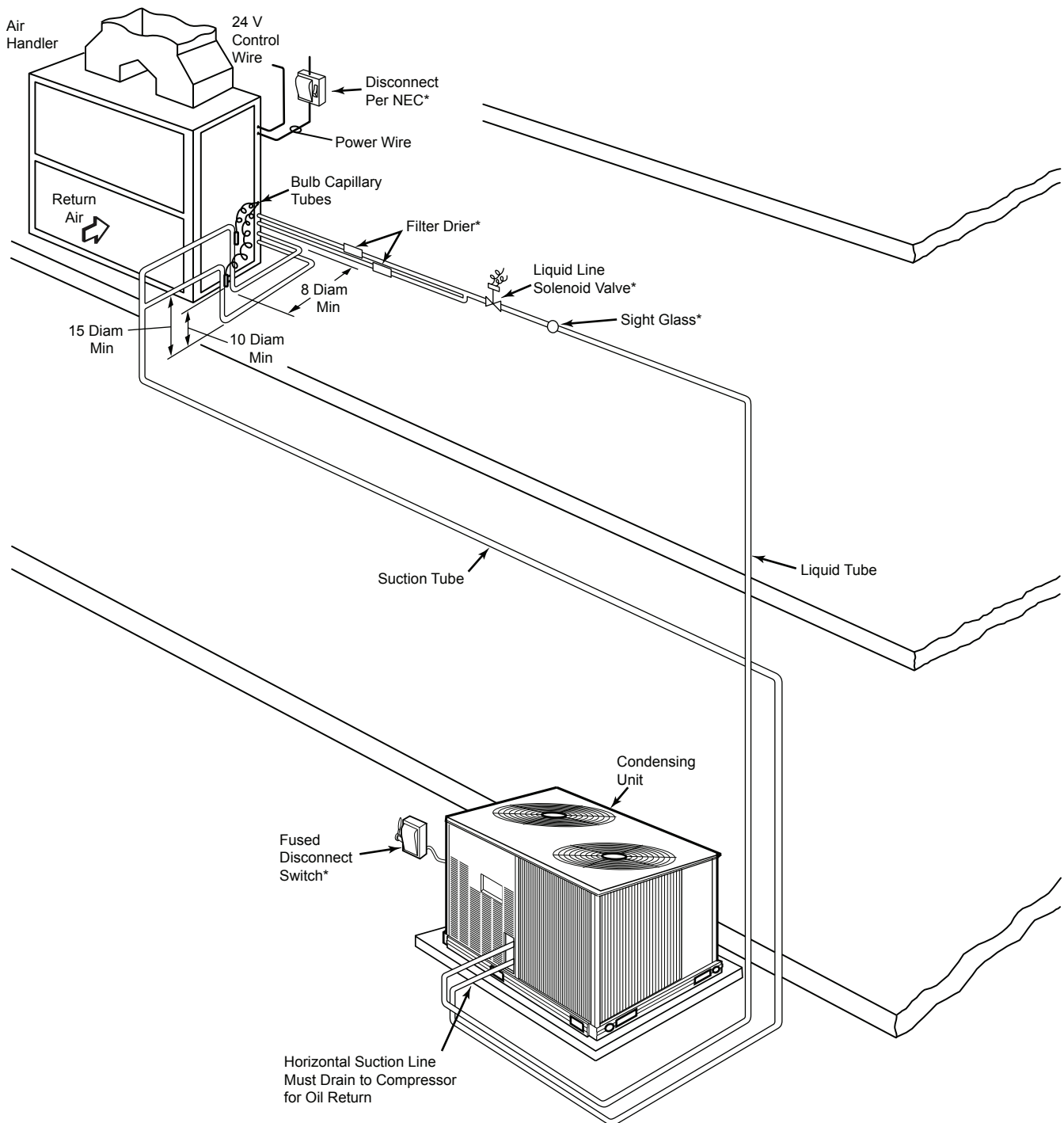
- DIAM** — Diameter
NEC — National Electrical Code
TXV — Thermostatic Expansion Valve
 Piping

*Field supplied.

NOTE(S):

1. All piping must follow standard refrigerant piping techniques. Refer to System Design Manual for details.
2. All wiring must comply with applicable local and national codes.
3. Wiring and piping shown are general points-of-connection guides only and are not intended for, or to include all details for, a specific installation.
4. Liquid line solenoid valve (solenoid drop control) is recommended to prevent refrigerant migration to the compressor on line links above 75 feet (23 meters).
5. Internal factory-supplied TXVs and check valves not shown.

Ground Installation and Vertical Discharge Fan Coil



LEGEND

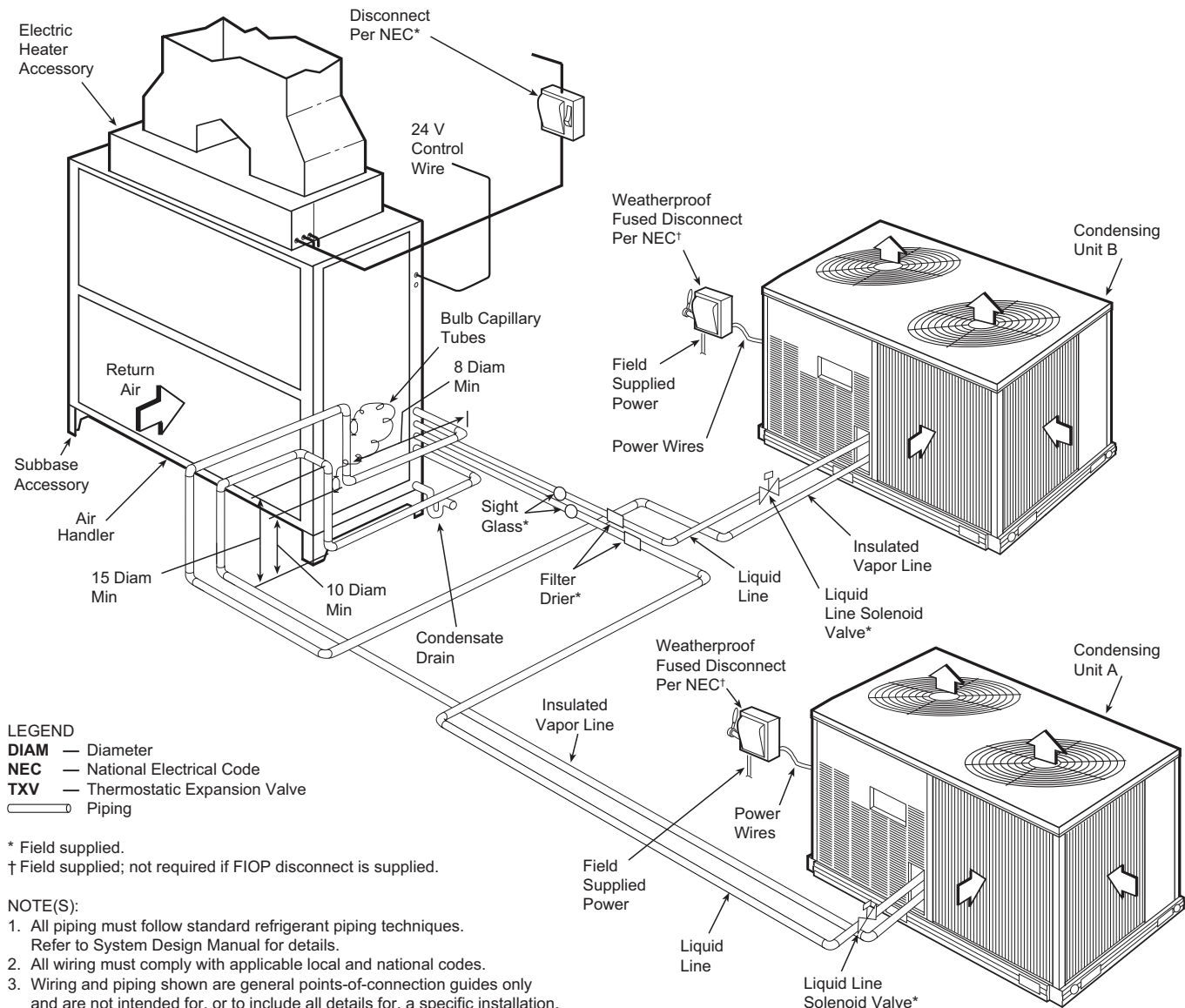
DIAM — Diameter
NEC — National Electrical Code
TXV — Thermostatic Expansion Valve
 Piping

*Field supplied.

NOTE(S):

1. All piping must follow standard refrigerant piping techniques. Refer to System Design Manual for details.
2. All wiring must comply with applicable local and national codes.
3. Wiring and piping shown are general points-of-connection guides only and are not intended for, or to include all details for, a specific installation.
4. Liquid line solenoid valve (solenoid drop control) is recommended to prevent refrigerant migration to the compressor on line links above 75 feet (23 meters).
5. Internal factory-supplied TXVs and check valves not shown.

Dual Condensing Units and a Dual Circuit Fan Coil



38AUZD07 Total Unit — Condenser Only Ratings — SI

38AUZD07 TOTAL UNIT 50 Hz							
SST (°C)		Air Temperature Entering Condenser (°C)					
		29	35	38	41	46	52
-7	TC	10.8	10.1	9.8	9.4	8.5	7.7
	kW	3.1	3.6	3.9	4.2	4.9	5.7
	SDT	37.8	43.3	46.0	48.8	54.3	59.9
-4	TC	12.1	11.3	10.9	10.5	9.6	8.7
	kW	3.2	3.6	3.9	4.2	4.9	5.7
	SDT	38.5	44.0	46.7	49.4	55.0	60.5
-1	TC	13.4	12.5	12.1	11.7	10.7	9.7
	kW	3.2	3.7	4.0	4.3	4.9	5.7
	SDT	39.3	44.7	47.4	50.1	55.6	61.1
2	TC	14.8	13.9	13.4	12.9	11.9	10.9
	kW	3.2	3.7	4.0	4.3	5.0	5.8
	SDT	40.1	45.4	48.1	50.8	56.3	61.7
4	TC	16.3	15.4	14.8	14.3	13.2	12.1
	kW	3.3	3.8	4.1	4.4	5.0	5.8
	SDT	40.9	46.2	48.9	51.6	56.9	62.3
7	TC	18.0	16.9	16.4	15.8	14.7	13.5
	kW	3.4	3.9	4.1	4.4	5.1	5.9
	SDT	41.8	47.1	49.7	52.4	57.7	62.9
10	TC	19.8	18.6	18.0	17.4	16.2	14.9
	kW	3.4	3.9	4.2	4.5	5.2	5.9
	SDT	42.7	47.9	50.5	53.2	58.4	63.6

LEGEND

kW	—	Compressor Motor Power Input
SDT	—	Saturated Discharge Temperature (°C)
SST	—	Saturated Suction Temperature
TC	—	Total Capacity (kW) gross

38AUZD07 Total Unit — Condenser Only Ratings — English

38AUZD07 TOTAL UNIT 50 Hz							
SST (°F)		Air Temperature Entering Condenser (°F)					
		85	95	100	105	115	125
20	TC	37.0	34.6	33.3	31.9	29.1	26.2
	kW	3.1	3.6	3.9	4.2	4.9	5.7
	SDT	100.1	109.9	114.8	119.8	129.8	139.8
25	TC	41.2	38.5	37.1	35.7	32.7	29.6
	kW	3.2	3.6	3.9	4.2	4.9	5.7
	SDT	101.4	111.1	116.0	121.0	130.9	140.9
30	TC	45.7	42.8	41.3	39.8	36.6	33.2
	kW	3.2	3.7	4.0	4.3	4.9	5.7
	SDT	102.7	112.4	117.3	122.2	132.1	141.9
35	TC	50.5	47.4	45.8	44.1	40.7	37.1
	kW	3.2	3.7	4.0	4.3	5.0	5.8
	SDT	104.2	113.8	118.6	123.5	133.3	143.0
40	TC	55.8	52.4	50.7	48.9	45.2	41.4
	kW	3.3	3.8	4.1	4.4	5.0	5.8
	SDT	105.7	115.2	120.0	124.8	134.5	144.1
45	TC	61.5	57.8	55.9	54.0	50.0	45.9
	kW	3.4	3.9	4.1	4.4	5.1	5.9
	SDT	107.3	116.7	121.5	126.2	135.8	145.3
50	TC	67.5	63.5	61.5	59.4	55.2	50.8
	kW	3.4	3.9	4.2	4.5	5.2	5.9
	SDT	108.9	118.3	123.0	127.7	137.1	146.4

LEGEND

kW	—	Compressor Motor Power Input
SDT	—	Saturated Discharge Temperature (°F)
SST	—	Saturated Suction Temperature
TC	—	Total Capacity (1000 Btuh) gross

38AUZD08 Total Unit — Condenser Only Ratings — SI

38AUZD08 TOTAL UNIT 50 Hz							
SST (°C)		Air Temperature Entering Condenser (°C)					
		29	35	38	41	46	52
-7	TC	14.8	13.7	13.2	12.7	11.6	10.5
	kW	4.4	4.9	5.2	5.6	6.3	7.1
	SDT	36.1	41.2	43.8	46.3	51.3	56.4
-4	TC	16.4	15.3	14.7	14.1	12.9	11.7
	kW	4.4	5.0	5.3	5.6	6.4	7.2
	SDT	36.8	41.8	44.4	46.9	51.9	56.8
-1	TC	18.2	17.0	16.3	15.7	14.4	13.1
	kW	4.5	5.1	5.4	5.7	6.4	7.2
	SDT	37.5	42.5	45.0	47.5	52.5	57.4
2	TC	20.1	18.8	18.1	17.4	16.0	14.5
	kW	4.6	5.1	5.5	5.8	6.5	7.3
	SDT	38.2	43.2	45.7	48.2	53.1	57.9
4	TC	22.2	20.7	19.9	19.2	17.6	16.0
	kW	4.6	5.2	5.5	5.9	6.6	7.4
	SDT	39.0	44.0	46.4	48.8	53.7	58.5
7	TC	24.3	22.7	21.9	21.1	19.4	17.7
	kW	4.7	5.3	5.6	5.9	6.7	7.5
	SDT	39.9	44.7	47.2	49.6	54.4	59.1
10	TC	26.6	24.9	24.0	23.1	21.3	19.4
	kW	4.8	5.4	5.7	6.0	6.8	7.6
	SDT	40.8	45.6	48.0	50.3	55.1	59.7

LEGEND

kW	—	Compressor Motor Power Input
SDT	—	Saturated Discharge Temperature (°C)
SST	—	Saturated Suction Temperature
TC	—	Total Capacity (kW) gross

38AUZD08 Total Unit — Condenser Only Ratings — English

38AUZD08 TOTAL UNIT 50 Hz							
SST (°F)		Air Temperature entering Condenser (°F)					
		85	95	100	105	115	125
20	TC	50.5	46.9	45.1	43.2	39.5	35.7
	kW	4.4	4.9	5.2	5.6	6.3	7.1
	SDT	97.0	106.2	110.8	115.3	124.4	133.5
25	TC	56.1	52.2	50.2	48.2	44.1	40.0
	kW	4.4	5.0	5.3	5.6	6.4	7.2
	SDT	98.2	107.3	111.9	116.4	125.4	134.3
30	TC	62.2	57.9	55.7	53.6	49.1	44.6
	kW	4.5	5.1	5.4	5.7	6.4	7.2
	SDT	99.5	108.5	113.0	117.5	126.4	135.2
35	TC	68.7	64.0	61.7	59.3	54.4	49.5
	kW	4.6	5.1	5.5	5.8	6.5	7.3
	SDT	100.8	109.8	114.2	118.7	127.5	136.2
40	TC	75.6	70.6	68.0	65.4	60.1	54.7
	kW	4.6	5.2	5.5	5.9	6.6	7.4
	SDT	102.3	111.1	115.5	119.9	128.6	137.2
45	TC	83.0	77.5	74.7	71.9	66.2	60.2
	kW	4.7	5.3	5.6	5.9	6.7	7.5
	SDT	103.8	112.5	116.9	121.2	129.8	138.3
50	TC	90.8	84.9	81.9	78.8	72.5	66.1
	kW	4.8	5.4	5.7	6.0	6.8	7.6
	SDT	105.4	114.0	118.3	122.6	131.1	139.4

LEGEND

kW	—	Compressor Motor Power Input
SDT	—	Saturated Discharge Temperature (°F)
SST	—	Saturated Suction Temperature
TC	—	Total Capacity (1000 Btuh) gross

38AUDT12 Circuit A and B Unit — Condenser Only Ratings — SI

38AUDT12 TOTAL UNIT 50 Hz							
SST (°C)		Air Temperature Entering Condenser (°C)					
		29	35	38	41	46	52
-7	TC	18.3	17.0	16.4	15.7	14.3	12.8
	kW	5.5	6.3	6.7	7.1	8.0	9.1
	SDT	36.6	41.7	44.2	46.7	51.7	56.6
-4	TC	20.3	19.0	18.3	17.6	16.0	14.4
	kW	5.6	6.3	6.7	7.2	8.1	9.2
	SDT	37.4	42.4	44.9	47.4	52.3	57.2
-1	TC	22.6	21.1	20.3	19.5	17.9	16.2
	kW	5.7	6.4	6.8	7.3	8.2	9.3
	SDT	38.2	43.2	45.7	48.2	53.1	57.8
2	TC	25.0	23.4	22.5	21.7	19.9	18.0
	kW	5.8	6.5	6.9	7.4	8.3	9.4
	SDT	39.1	44.0	46.5	48.9	53.7	58.5
4	TC	27.5	25.7	24.8	23.9	22.0	20.0
	kW	5.9	6.6	7.1	7.5	8.4	9.5
	SDT	40.1	44.9	47.4	49.8	54.5	59.2
7	TC	30.2	28.3	27.3	26.3	24.2	22.0
	kW	6.0	6.8	7.2	7.6	8.5	9.6
	SDT	41.1	45.9	48.3	50.7	55.3	59.9
10	TC	33.1	30.9	29.9	28.8	26.5	24.1
	kW	6.2	6.9	7.3	7.7	8.7	9.7
	SDT	42.2	46.9	49.3	51.6	56.2	60.7

LEGEND

kW	—	Compressor Motor Power Input
SDT	—	Saturated Discharge Temperature (°C)
SST	—	Saturated Suction Temperature
TC	—	Total Capacity (kW) gross

38AUDT12 Circuit A and B Unit — Condenser Only Ratings — English

38AUDT12 TOTAL UNIT 50 Hz							
SST (°F)		Air Temperature Entering Condenser (°F)					
		85	95	100	105	115	125
20	TC	62.3	58.1	55.8	53.5	48.7	43.6
	kW	5.5	6.3	6.7	7.1	8.0	9.1
	SDT	97.8	107.0	111.5	116.1	125.0	133.9
25	TC	69.4	64.8	62.4	59.9	54.7	49.3
	kW	5.6	6.3	6.7	7.2	8.1	9.2
	SDT	99.2	108.3	112.8	117.3	126.2	135.0
30	TC	77.0	72.0	69.4	66.7	61.1	55.2
	kW	5.7	6.4	6.8	7.3	8.2	9.3
	SDT	100.8	109.8	114.2	118.7	127.5	136.1
35	TC	85.2	79.7	76.8	73.9	67.9	61.5
	kW	5.8	6.5	6.9	7.4	8.3	9.4
	SDT	102.4	111.3	115.7	120.0	128.7	137.3
40	TC	93.9	87.8	84.8	81.6	75.0	68.1
	kW	5.9	6.6	7.1	7.5	8.4	9.5
	SDT	104.1	112.9	117.3	121.6	130.1	138.6
45	TC	103.0	96.5	93.1	89.7	82.5	75.0
	kW	6.0	6.8	7.2	7.6	8.5	9.6
	SDT	105.9	114.6	118.9	123.2	131.6	139.9
50	TC	112.8	105.6	101.9	98.2	90.5	82.1
	kW	6.2	6.9	7.3	7.7	8.7	9.7
	SDT	107.9	116.4	120.7	124.9	133.2	141.2

LEGEND

kW	—	Compressor Motor Power Input
SDT	—	Saturated Discharge Temperature (°F)
SST	—	Saturated Suction Temperature
TC	—	Total Capacity (1000 Btuh) gross

38AUDT14 Circuit A and B Unit — Condenser Only Ratings — SI

38AUDT14 TOTAL UNIT 50 Hz							
SST (°C)		Air Temperature Entering Condenser (°C)					
		29	35	38	41	46	52
-7	TC	21.3	19.8	19.0	18.1	16.4	14.5
	kW	6.6	7.5	8.0	8.6	9.7	11.1
	SDT	37.0	42.1	44.6	47.1	52.1	56.9
-4	TC	23.7	22.0	21.2	20.3	18.4	16.4
	kW	6.7	7.6	8.1	8.7	9.8	11.2
	SDT	37.7	42.8	45.3	47.8	52.7	57.5
-1	TC	26.3	24.5	23.6	22.6	20.7	18.6
	kW	6.8	7.7	8.2	8.8	10.0	11.3
	SDT	38.6	43.6	46.1	48.6	53.4	58.2
2	TC	29.0	27.2	26.2	25.1	23.0	20.8
	kW	6.9	7.8	8.3	8.9	10.1	11.4
	SDT	39.4	44.4	46.9	49.3	54.2	58.9
4	TC	32.0	30.0	28.9	27.8	25.5	23.3
	kW	7.0	7.9	8.5	9.0	10.2	11.5
	SDT	40.3	45.3	47.8	50.2	54.9	59.6
7	TC	35.1	32.9	31.8	30.6	28.2	25.7
	kW	7.1	8.1	8.6	9.1	10.3	11.6
	SDT	41.3	46.2	48.7	51.1	55.8	60.4
10	TC	38.4	36.0	34.8	33.6	31.1	28.3
	kW	7.3	8.2	8.7	9.3	10.5	11.8
	SDT	42.3	47.2	49.6	52.0	56.6	61.1

LEGEND

kW	—	Compressor Motor Power Input
SDT	—	Saturated Discharge Temperature (°C)
SST	—	Saturated Suction Temperature
TC	—	Total Capacity (kW) gross

38AUDT14 Circuit A and B Unit — Condenser Only Ratings — English

38AUDT14 TOTAL UNIT 50 Hz							
SST (°F)		Air Temperature Entering Condenser (°F)					
		85	95	100	105	115	125
20	TC	72.7	67.5	64.8	61.9	55.8	49.5
	kW	6.6	7.5	8.0	8.6	9.7	11.1
	SDT	98.6	107.7	112.3	116.8	125.7	134.4
25	TC	80.9	75.2	72.3	69.3	62.9	56.1
	kW	6.7	7.6	8.1	8.7	9.8	11.2
	SDT	99.9	109.1	113.6	118.1	126.9	135.6
30	TC	89.7	83.7	80.5	77.3	70.5	63.3
	kW	6.8	7.7	8.2	8.8	10.0	11.3
	SDT	101.4	110.5	115.0	119.4	128.2	136.7
35	TC	99.1	92.7	89.3	85.8	78.6	71.0
	kW	6.9	7.8	8.3	8.9	10.1	11.4
	SDT	103.0	112.0	116.4	120.8	129.5	138.0
40	TC	109.2	102.2	98.6	94.9	87.1	79.4
	kW	7.0	7.9	8.5	9.0	10.2	11.5
	SDT	104.6	113.5	118.0	122.3	130.9	139.3
45	TC	119.6	112.3	108.5	104.6	96.4	87.8
	kW	7.1	8.1	8.6	9.1	10.3	11.6
	SDT	106.3	115.2	119.6	123.9	132.4	140.6
50	TC	131.1	123.0	118.9	114.7	106.0	96.5
	kW	7.3	8.2	8.7	9.3	10.5	11.8
	SDT	108.2	117.0	121.2	125.6	133.9	142.0

LEGEND

kW	—	Compressor Motor Power Input
SDT	—	Saturated Discharge Temperature (°F)
SST	—	Saturated Suction Temperature
TC	—	Total Capacity (1000 Btuh) gross

38AUDT16 Circuit A and B Unit — Condenser Only Ratings — SI

38AUDT16 TOTAL UNIT 50 Hz							
SST (°C)		Air Temperature Entering Condenser (°C)					
		29	35	38	41	46	52
-7	TC	30.3	28.2	27.2	26.1	24.0	21.9
	kW	8.8	9.9	10.5	11.2	12.7	14.3
	SDT	37.2	42.4	44.9	47.5	52.6	57.6
-4	TC	33.4	31.2	30.1	29.0	26.7	24.4
	kW	8.9	10.1	10.7	11.4	12.9	14.5
	SDT	38.1	43.2	45.7	48.2	53.3	58.3
-1	TC	36.9	34.5	33.3	32.0	29.5	27.0
	kW	9.1	10.3	10.9	11.6	13.1	14.8
	SDT	38.9	44.0	46.5	49.0	54.0	58.9
2	TC	40.6	38.0	36.6	35.3	32.6	29.8
	kW	9.3	10.5	11.2	11.9	13.4	15.0
	SDT	39.9	44.9	47.4	49.9	54.8	59.7
4	TC	44.5	41.7	40.2	38.8	35.8	32.8
	kW	9.6	10.8	11.4	12.1	13.6	15.3
	SDT	40.8	45.8	48.3	50.8	55.7	60.4
7	TC	48.7	45.6	44.1	42.5	39.3	36.0
	kW	9.8	11.0	11.7	12.4	13.9	15.5
	SDT	41.9	46.8	49.3	51.7	56.5	61.3
10	TC	53.2	49.8	48.1	46.4	42.9	39.4
	kW	10.1	11.3	12.0	12.7	14.2	15.8
	SDT	43.0	47.9	50.3	52.7	57.5	62.1

LEGEND

kW	—	Compressor Motor Power Input
SDT	—	Saturated Discharge Temperature (°C)
SST	—	Saturated Suction Temperature
TC	—	Total Capacity (kW) gross

38AUDT16 Circuit A and B Unit — Condenser Only Ratings — English

38AUDT16 TOTAL UNIT 50 Hz							
SST (°F)		Air Temperature entering Condenser (°F)					
		85	95	100	105	115	125
20	TC	103.2	96.2	92.7	89.1	81.9	74.7
	kW	8.8	9.9	10.5	11.2	12.7	14.3
	SDT	99.0	108.3	112.9	117.5	126.6	135.7
25	TC	114.1	106.6	102.7	98.8	91.0	83.1
	kW	8.9	10.1	10.7	11.4	12.9	14.5
	SDT	100.5	109.7	114.3	118.8	127.9	136.9
30	TC	125.8	117.6	113.5	109.3	100.7	92.1
	kW	9.1	10.3	10.9	11.6	13.1	14.8
	SDT	102.1	111.2	115.7	120.2	129.2	138.1
35	TC	138.4	129.5	125.0	120.4	111.1	101.8
	kW	9.3	10.5	11.2	11.9	13.4	15.0
	SDT	103.7	112.8	117.3	121.8	130.7	139.4
40	TC	151.8	142.2	137.3	132.3	122.3	112.0
	kW	9.6	10.8	11.4	12.1	13.6	15.3
	SDT	105.5	114.5	118.9	123.4	132.2	140.8
45	TC	166.1	155.7	150.4	145.0	134.0	122.9
	kW	9.8	11.0	11.7	12.4	13.9	15.5
	SDT	107.4	116.3	120.7	125.1	133.8	142.3
50	TC	181.4	170.1	164.3	158.4	146.5	134.3
	kW	10.1	11.3	12.0	12.7	14.2	15.8
	SDT	109.4	118.2	122.6	126.9	135.5	143.8

LEGEND

kW	—	Compressor Motor Power Input
SDT	—	Saturated Discharge Temperature (°F)
SST	—	Saturated Suction Temperature
TC	—	Total Capacity (1000 Btuh) gross

38AUDT25 Circuit A and B Unit — Condenser Only Ratings — SI

38AUDT25 TOTAL UNIT 50 Hz							
SST (°C)		Air Temperature Entering Condenser (°C)					
		29	35	38	41	46	52
-7	TC	39.3	37.0	35.8	34.6	32.0	29.2
	kW	10.9	12.2	12.9	13.7	15.3	17.1
	SDT	36.7	41.8	44.3	46.9	51.9	56.9
-4	TC	43.3	40.8	39.5	38.1	35.3	32.3
	kW	11.2	12.4	13.2	13.9	15.5	17.3
	SDT	37.4	42.5	45.0	47.5	52.5	57.4
-1	TC	47.6	44.8	43.4	41.9	38.8	35.4
	kW	11.4	12.7	13.4	14.2	15.8	17.6
	SDT	38.3	43.2	45.7	48.2	53.1	58.0
2	TC	52.2	49.2	47.6	45.9	42.5	38.8
	kW	11.7	13.0	13.7	14.4	16.1	17.9
	SDT	39.1	44.1	46.5	49.0	53.8	58.6
4	TC	57.1	53.7	52.0	50.2	46.4	42.4
	kW	11.9	13.2	13.9	14.7	16.3	18.1
	SDT	40.0	44.9	47.4	49.8	54.6	59.2
7	TC	62.3	58.6	56.6	54.6	50.5	46.0
	kW	12.3	13.5	14.2	15.0	16.6	18.4
	SDT	41.0	45.9	48.3	50.6	55.3	59.9
10	TC	67.7	63.6	61.5	59.3	54.7	49.8
	kW	12.6	13.9	14.6	15.3	16.9	18.7
	SDT	42.1	46.8	49.2	51.5	56.2	60.6

LEGEND

kW	—	Compressor Motor Power Input
SDT	—	Saturated Discharge Temperature (°C)
SST	—	Saturated Suction Temperature
TC	—	Total Capacity (kW) gross

38AUDT25 Circuit A and B Unit — Condenser Only Ratings — English

38AUDT25 TOTAL UNIT 50 Hz							
SST (°F)		Air Temperature Entering Condenser (°F)					
		85	95	100	105	115	125
20	TC	134.1	126.3	122.2	118.0	109.1	99.7
	kW	10.9	12.2	12.9	13.7	15.3	17.1
	SDT	98.0	107.2	111.8	116.3	125.4	134.3
25	TC	147.8	139.2	134.7	130.1	120.4	110.1
	kW	11.2	12.4	13.2	13.9	15.5	17.3
	SDT	99.4	108.5	113.0	117.5	126.5	135.4
30	TC	162.5	153.0	148.1	143.0	132.4	121.0
	kW	11.4	12.7	13.4	14.2	15.8	17.6
	SDT	100.9	109.8	114.3	118.8	127.7	136.4
35	TC	178.2	167.8	162.3	156.8	145.0	132.5
	kW	11.7	13.0	13.7	14.4	16.1	17.9
	SDT	102.5	111.3	115.7	120.2	128.9	137.5
40	TC	194.8	183.4	177.4	171.3	158.3	144.5
	kW	11.9	13.2	13.9	14.7	16.3	18.1
	SDT	104.1	112.9	117.3	121.6	130.2	138.6
45	TC	212.5	199.8	193.2	186.4	172.2	157.0
	kW	12.3	13.5	14.2	15.0	16.6	18.4
	SDT	105.9	114.6	118.9	123.2	131.6	139.9
50	TC	231.0	217.0	209.7	202.2	186.5	169.8
	kW	12.6	13.9	14.6	15.3	16.9	18.7
	SDT	107.8	116.3	120.6	124.8	133.1	141.2

LEGEND

kW	—	Compressor Motor Power Input
SDT	—	Saturated Discharge Temperature (°F)
SST	—	Saturated Suction Temperature
TC	—	Total Capacity (1000 Btuh) gross

38AUDT28 Circuit A and B Unit — Condenser Only Ratings — SI

38AUDT28 TOTAL UNIT 50 Hz							
SST (°C)		Air Temperature Entering Condenser (°C)					
		29	35	38	41	46	52
-7	TC	47.7	44.8	43.2	41.6	38.1	34.4
	kW	14.0	15.7	16.5	17.4	19.4	21.6
	SDT	38.3	43.3	45.7	48.2	53.0	57.8
-4	TC	52.6	49.3	47.6	45.9	42.2	38.2
	kW	14.4	16.0	16.9	17.8	19.8	22.0
	SDT	39.2	44.1	46.6	49.0	53.8	58.5
-1	TC	57.7	54.2	52.3	50.4	46.4	42.1
	kW	14.7	16.4	17.3	18.2	20.2	22.4
	SDT	40.2	45.1	47.5	49.9	54.6	59.2
2	TC	63.2	59.3	57.3	55.2	50.9	46.2
	kW	15.1	16.7	17.6	18.6	20.6	22.8
	SDT	41.3	46.0	48.4	50.8	55.5	60.0
4	TC	68.9	64.7	62.5	60.2	55.4	50.4
	kW	15.5	17.2	18.1	19.0	21.1	23.3
	SDT	42.4	47.1	49.4	51.8	56.3	60.8
7	TC	75.0	70.3	67.9	65.4	60.2	54.6
	kW	16.0	17.6	18.5	19.5	21.5	23.7
	SDT	43.6	48.2	50.5	52.8	57.3	61.6
10	TC	81.3	76.1	73.4	70.7	64.9	58.9
	kW	16.5	18.1	19.0	20.0	22.0	24.2
	SDT	44.8	49.4	51.6	53.8	58.2	62.4

LEGEND

kW	—	Compressor Motor Power Input
SDT	—	Saturated Discharge Temperature (°C)
SST	—	Saturated Suction Temperature
TC	—	Total Capacity (kW) gross

38AUDT28 Circuit A and B Unit — Condenser Only Ratings — English

38AUDT28 TOTAL UNIT 50 Hz							
SST (°F)		Air Temperature Entering Condenser (°F)					
		85	95	100	105	115	125
20	TC	162.9	152.8	147.4	141.9	130.1	117.4
	kW	14.0	15.7	16.5	17.4	19.4	21.6
	SDT	100.9	109.9	114.3	118.7	127.5	136.1
25	TC	179.4	168.4	162.6	156.6	143.9	130.3
	kW	14.4	16.0	16.9	17.8	19.8	22.0
	SDT	102.6	111.4	115.8	120.2	128.9	137.3
30	TC	196.9	184.9	178.6	172.1	158.4	143.7
	kW	14.7	16.4	17.3	18.2	20.2	22.4
	SDT	104.4	113.1	117.4	121.8	130.3	138.6
35	TC	215.6	202.3	195.5	188.4	173.5	157.6
	kW	15.1	16.7	17.6	18.6	20.6	22.8
	SDT	106.3	114.9	119.2	123.4	131.8	140.0
40	TC	235.2	220.7	213.2	205.4	189.2	171.9
	kW	15.5	17.2	18.1	19.0	21.1	23.3
	SDT	108.3	116.8	121.0	125.2	133.4	141.4
45	TC	255.8	239.9	231.6	223.1	205.3	186.4
	kW	16.0	17.6	18.5	19.5	21.5	23.7
	SDT	110.4	118.7	122.9	127.0	135.1	142.9
50	TC	277.3	259.7	250.5	241.1	221.6	200.8
	kW	16.5	18.1	19.0	20.0	22.0	24.2
	SDT	112.7	120.8	124.9	128.9	136.8	144.4

LEGEND

kW	—	Compressor Motor Power Input
SDT	—	Saturated Discharge Temperature (°F)
SST	—	Saturated Suction Temperature
TC	—	Total Capacity (1000 Btuh) gross

38AUZD07/40RFAA07 Combination Ratings — 50 Hz — SI

38AUZD07-40RFAA07				AMBIENT TEMPERATURE (°C)														
				29			35			41			46			52		
				EA (db)			EA (db)			EA (db)			EA (db)			EA (db)		
				24	27	29	24	27	29	24	27	29	24	27	29	24	27	29
850 L/S	EA (wb)	14	THC	16.0	16.0	18.1	15.5	15.5	17.5	14.9	14.9	16.8	14.3	14.3	16.1	13.5	13.5	15.3
			SHC	14.0	16.0	18.1	13.5	15.5	17.5	13.0	14.9	16.8	12.5	14.3	16.1	11.8	13.5	15.3
		17	THC	16.7	16.7	17.5	15.9	15.9	17.0	15.2	15.2	16.7	14.5	14.5	16.3	13.7	13.7	15.6
			SHC	12.7	15.1	17.5	12.3	14.7	17.0	12.0	14.4	16.7	11.7	14.0	16.3	11.1	13.3	15.6
		19	THC	18.2	18.2	18.2	17.4	17.4	17.4	16.6	16.6	16.6	15.7	15.7	15.7	14.8	14.8	14.8
			SHC	10.3	12.7	15.0	10.0	12.4	14.7	9.7	12.0	14.4	9.3	11.7	14.0	8.9	11.3	13.7
		22	THC	19.9	19.9	19.9	19.0	19.0	19.0	18.1	18.1	18.1	17.2	17.2	17.2	16.1	16.1	16.1
			SHC	8.0	10.2	12.5	7.6	9.9	12.2	7.3	9.6	11.9	6.9	9.3	11.6	6.6	8.9	11.2
		24	THC	—	21.4	21.4	—	20.5	20.5	—	19.5	19.5	—	18.5	18.5	—	17.3	17.3
			SHC	—	8.1	11.0	—	7.9	10.8	—	7.6	9.6	—	7.3	9.4	—	6.9	9.2
991 L/S	EA (wb)	14	THC	16.8	16.8	19.0	16.2	16.2	18.3	15.6	15.6	17.6	14.9	14.9	16.8	14.1	14.1	15.9
			SHC	14.7	16.8	19.0	14.2	16.2	18.3	13.6	15.6	17.6	13.0	14.9	16.8	12.3	14.1	15.9
		17	THC	17.1	17.1	18.8	16.4	16.4	18.5	15.8	15.8	17.6	15.1	15.1	16.7	14.3	14.3	15.9
			SHC	13.5	16.2	18.8	13.2	15.9	18.5	12.6	15.1	17.6	12.0	14.3	16.7	11.4	13.7	15.9
		19	THC	18.7	18.7	18.7	17.8	17.8	17.8	17.0	17.0	17.0	16.0	16.0	16.0	15.1	15.1	15.1
			SHC	10.9	13.6	16.3	10.6	13.2	15.9	10.2	12.9	15.6	9.9	12.5	15.2	9.5	12.2	14.9
		22	THC	20.3	20.3	20.3	19.4	19.4	19.4	18.5	18.5	18.5	17.5	17.5	17.5	16.4	16.4	16.4
			SHC	8.1	10.8	13.4	7.8	10.4	13.1	7.5	10.1	12.8	7.1	9.8	12.5	6.7	9.4	12.1
		24	THC	—	21.8	21.8	—	20.9	20.9	—	19.9	19.9	—	18.8	18.8	—	17.6	17.6
			SHC	—	8.5	10.7	—	8.2	10.6	—	7.9	10.4	—	7.5	10.1	—	7.2	9.8
1133 L/S	EA (wb)	14	THC	17.4	17.4	19.7	16.8	16.8	19.0	16.1	16.1	18.2	15.4	15.4	17.3	14.6	14.6	16.4
			SHC	15.2	17.4	19.7	14.7	16.8	19.0	14.0	16.1	18.2	13.4	15.4	17.3	12.7	14.6	16.4
		17	THC	17.6	17.6	20.0	16.8	16.8	19.7	16.1	16.1	18.9	15.4	15.4	18.0	14.5	14.5	17.1
			SHC	14.2	17.1	20.0	13.9	16.8	19.7	13.4	16.1	18.9	12.7	15.4	18.0	11.9	14.5	17.1
		19	THC	19.0	19.0	19.0	18.1	18.1	18.1	17.2	17.2	17.2	16.3	16.3	16.4	15.3	15.3	16.0
			SHC	11.4	14.4	17.4	11.1	14.1	17.1	10.7	13.7	16.7	10.4	13.4	16.4	10.0	13.0	16.0
		22	THC	20.6	20.6	20.6	19.8	19.8	19.8	18.8	18.8	18.8	17.8	17.8	17.8	16.6	16.6	16.6
			SHC	8.3	11.3	14.2	8.0	11.0	13.9	7.6	10.6	13.6	7.3	10.3	13.3	6.9	9.9	12.9
		24	THC	—	22.2	22.2	—	21.2	21.2	—	20.2	20.2	—	19.0	19.0	—	17.8	17.8
			SHC	—	8.7	11.5	—	8.4	11.3	—	8.1	11.0	—	7.8	10.7	—	7.4	10.4
1274 L/S	EA (wb)	14	THC	17.9	17.9	20.2	17.3	17.3	19.5	16.6	16.6	18.7	15.8	15.8	17.8	14.9	14.9	16.9
			SHC	15.6	17.9	20.2	15.1	17.3	19.5	14.4	16.6	18.7	13.7	15.8	17.8	13.0	14.9	16.9
		17	THC	18.3	18.3	19.8	17.3	17.3	20.2	16.6	16.6	19.4	15.8	15.8	18.5	14.9	14.9	17.5
			SHC	14.3	17.1	19.8	14.3	17.3	20.2	13.7	16.6	19.4	13.1	15.8	18.5	12.4	14.9	17.5
		19	THC	19.2	19.2	19.2	18.4	18.4	18.4	17.5	17.5	17.8	16.5	16.5	17.4	15.9	15.9	15.9
			SHC	11.9	15.2	18.5	11.6	14.9	18.2	11.2	14.5	17.8	10.9	14.2	17.4	9.9	12.8	15.8
		22	THC	20.9	20.9	20.9	20.0	20.0	20.0	19.0	19.0	19.0	18.0	18.0	18.0	16.8	16.8	16.8
			SHC	8.5	11.8	15.0	8.1	11.4	14.7	7.8	11.1	14.4	7.4	10.8	14.0	7.1	10.3	13.7
		24	THC	—	22.4	22.4	—	21.5	21.5	—	20.4	20.4	—	19.3	19.3	—	18.0	18.0
			SHC	—	8.9	12.1	—	8.6	11.8	—	8.3	11.5	—	8.0	11.2	—	7.6	10.9
1416 L/S	EA (wb)	14	THC	18.4	18.4	20.7	17.7	17.7	19.9	16.9	16.9	19.1	16.1	16.1	18.2	15.2	15.2	17.2
			SHC	16.0	18.4	20.7	15.4	17.7	19.9	14.8	16.9	19.1	14.0	16.1	18.2	13.3	15.2	17.2
		17	THC	18.6	18.6	20.3	17.8	17.8	20.0	16.9	16.9	19.8	16.1	16.1	18.9	15.2	15.2	17.8
			SHC	14.7	17.5	20.3	14.3	17.2	20.0	14.0	16.9	19.8	13.4	16.1	18.9	12.6	15.2	17.8
		19	THC	19.5	19.5	19.6	18.6	18.6	19.2	17.6	17.6	18.8	17.1	17.1	17.1	15.6	15.6	18.0
			SHC	12.4	16.0	19.6	12.0	15.6	19.2	11.7	15.3	18.8	10.7	13.8	17.0	10.9	14.4	18.0
		22	THC	21.2	21.2	21.2	20.2	20.2	20.2	19.2	19.2	19.2	18.1	18.1	18.1	17.0	17.0	17.0
			SHC	8.6	12.2	15.8	8.3	11.9	15.5	7.9	11.5	15.2	7.6	11.2	14.8	7.2	10.8	14.4
		24	THC	—	22.7	22.7	—	21.7	21.7	—	20.6	20.6	—	19.4	19.4	—	18.2	18.2
			SHC	—	9.1	12.6	—	8.8	12.3	—	8.5	12.0	—	8.1	11.7	—	7.8	11.4

LEGEND

db	—	dry bulb
EA	—	Entering Air (°C)
SHC	—	Sensible Heat Capacity (kW) gross
THC	—	Total Capacity (kW) gross
wb	—	wet bulb

38AUZD07/40RFAA07 Combination Ratings — 50 Hz — English

38AUZD07-40RFAA07				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
1,800 cfm	EA (wb)	58	THC	54.7	54.7	61.7	53.0	53.0	59.7	50.9	50.9	57.4	48.7	48.7	54.9	46.2	46.2	52.1
			SHC	47.7	54.7	61.7	46.2	53.0	59.7	44.4	50.9	57.4	42.5	48.7	54.9	40.3	46.2	52.1
		62	THC	57.0	57.0	59.6	54.3	54.3	57.9	51.9	51.9	56.9	49.4	49.4	55.6	46.6	46.6	53.1
			SHC	43.5	51.6	59.6	42.0	50.0	57.9	41.0	49.0	56.9	39.8	47.7	55.6	37.9	45.5	53.1
		67	THC	62.2	62.2	62.2	59.5	59.5	59.5	56.6	56.6	56.6	53.6	53.6	53.6	50.4	50.4	50.4
			SHC	35.3	43.3	51.2	34.2	42.2	50.2	33.1	41.1	49.0	31.8	39.9	47.9	30.5	38.6	46.6
		72	THC	67.9	67.9	67.9	65.0	65.0	65.0	61.8	61.8	61.8	58.7	58.7	58.7	55.0	55.0	55.0
			SHC	27.2	34.9	42.6	26.0	33.9	41.7	24.9	32.7	40.5	23.7	31.6	39.5	22.4	30.4	38.3
		76	THC	—	73.1	73.1	—	69.9	69.9	—	66.5	66.5	—	63.0	63.0	—	59.1	59.1
			SHC	—	27.8	37.7	—	26.9	36.8	—	25.9	32.7	—	24.9	32.2	—	23.7	31.3
2,100 cfm	EA (wb)	58	THC	57.3	57.3	64.7	55.3	55.3	62.4	53.1	53.1	59.9	50.7	50.7	57.2	48.1	48.1	54.3
			SHC	50.0	57.3	64.7	48.3	55.3	62.4	46.3	53.1	59.9	44.2	50.7	57.2	42.0	48.1	54.3
		62	THC	58.4	58.4	64.2	56.0	56.0	63.0	53.8	53.8	59.9	51.4	51.4	56.9	48.7	48.7	54.4
			SHC	46.2	55.2	64.2	45.1	54.1	63.0	43.0	51.4	59.9	40.9	48.9	56.9	39.0	46.7	54.4
		67	THC	63.7	63.7	63.7	60.9	60.9	60.9	57.9	57.9	57.9	54.7	54.7	54.7	51.4	51.4	51.4
			SHC	37.2	46.4	55.5	36.1	45.2	54.3	34.9	44.0	53.2	33.7	42.8	52.0	32.4	41.5	50.7
		72	THC	69.3	69.3	69.3	66.3	66.3	66.3	63.2	63.2	63.2	59.6	59.6	59.6	56.0	56.0	56.0
			SHC	27.8	36.7	45.6	26.7	35.6	44.6	25.5	34.6	43.6	24.3	33.4	42.5	23.0	32.1	41.3
		76	THC	—	74.5	74.5	—	71.3	71.3	—	67.8	67.8	—	64.1	64.1	—	60.2	60.2
			SHC	—	28.9	36.6	—	27.9	36.1	—	26.9	35.4	—	25.7	34.5	—	24.5	33.5
2,400 cfm	EA (wb)	58	THC	59.5	59.5	67.1	57.3	57.3	64.7	55.0	55.0	62.0	52.4	52.4	59.1	49.7	49.7	56.0
			SHC	51.9	59.5	67.1	50.0	57.3	64.7	47.9	55.0	62.0	45.7	52.4	59.1	43.3	49.7	56.0
		62	THC	59.9	59.9	68.1	57.3	57.3	67.1	55.0	55.0	64.4	52.4	52.4	61.4	49.4	49.4	58.3
			SHC	48.6	58.3	68.1	47.5	57.3	67.1	45.6	55.0	64.4	43.5	52.4	61.4	40.5	49.4	58.3
		67	THC	64.8	64.8	64.8	61.8	61.8	61.8	58.8	58.8	58.8	55.6	55.6	55.9	52.1	52.1	54.5
			SHC	39.0	49.2	59.4	37.8	48.0	58.2	36.6	46.9	57.1	35.4	45.6	55.9	34.1	44.3	54.5
		72	THC	70.4	70.4	70.4	67.4	67.4	67.4	64.1	64.1	64.1	60.6	60.6	60.6	56.8	56.8	56.8
			SHC	28.3	38.4	48.5	27.3	37.4	47.5	26.1	36.3	46.4	24.9	35.1	45.3	23.6	33.8	44.0
		76	THC	—	75.8	75.8	—	72.4	72.4	—	68.8	68.8	—	65.0	65.0	—	60.9	60.9
			SHC	—	29.8	39.2	—	28.8	38.4	—	27.7	37.5	—	26.5	36.5	—	25.3	35.4
2,700 cfm	EA (wb)	58	THC	61.2	61.2	69.0	58.9	58.9	66.5	56.5	56.5	63.7	53.8	53.8	60.7	50.9	50.9	57.5
			SHC	53.3	61.2	69.0	51.4	58.9	66.5	49.2	56.5	63.7	46.9	53.8	60.7	44.4	50.9	57.5
		62	THC	62.4	62.4	67.7	58.9	58.9	69.0	56.5	56.5	66.2	53.8	53.8	63.0	51.0	51.0	59.7
			SHC	48.9	58.3	67.7	48.9	58.9	69.0	46.8	56.5	66.2	44.6	53.8	63.0	42.2	51.0	59.7
		67	THC	65.6	65.6	65.6	62.7	62.7	62.7	59.6	59.6	60.8	56.2	56.2	59.5	54.2	54.2	54.2
			SHC	40.6	51.9	63.1	39.5	50.7	62.0	38.3	49.6	60.8	37.1	48.3	59.5	33.8	43.8	53.8
		72	THC	71.4	71.4	71.4	68.2	68.2	68.2	64.9	64.9	64.9	61.3	61.3	61.3	57.4	57.4	57.4
			SHC	28.9	40.1	51.2	27.8	39.0	50.2	26.6	37.9	49.1	25.4	36.7	47.9	24.1	35.3	46.6
		76	THC	—	76.6	76.6	—	73.3	73.3	—	69.6	69.6	—	65.7	65.7	—	61.5	61.5
			SHC	—	30.5	41.2	—	29.5	40.3	—	28.4	39.4	—	27.2	38.3	—	25.9	37.1
3,000 cfm	EA (wb)	58	THC	62.7	62.7	70.7	60.3	60.3	68.0	57.8	57.8	65.2	55.0	55.0	62.0	52.0	52.0	58.7
			SHC	54.6	62.7	70.7	52.6	60.3	68.0	50.4	57.8	65.2	47.9	55.0	62.0	45.3	52.0	58.7
		62	THC	63.6	63.6	69.4	60.8	60.8	68.4	57.8	57.8	67.7	55.0	55.0	64.4	52.0	52.0	60.9
			SHC	50.0	59.7	69.4	48.9	58.7	68.4	47.9	57.8	67.7	45.6	55.0	64.4	43.1	52.0	60.9
		67	THC	66.4	66.4	66.8	63.4	63.4	65.6	60.2	60.2	64.3	58.4	58.4	58.4	53.3	53.3	61.3
			SHC	42.3	54.5	66.8	41.1	53.4	65.6	39.9	52.1	64.3	36.4	47.2	58.1	37.2	49.2	61.3
		72	THC	72.2	72.2	72.2	69.0	69.0	69.0	65.6	65.6	65.6	61.9	61.9	61.9	57.9	57.9	57.9
			SHC	29.4	41.6	53.8	28.3	40.5	52.8	27.1	39.4	51.7	25.9	38.2	50.4	24.6	36.8	49.1
		76	THC	—	77.4	77.4	—	74.0	74.0	—	70.3	70.3	—	66.3	66.3	—	62.0	62.0
			SHC	—	31.1	43.0	—	30.1	42.1	—	29.0	41.1	—	27.8	40.0	—	26.5	38.8

LEGEND

db	—	dry bulb
EA	—	Entering Air (°F)
SHC	—	Sensible Heat Capacity (1000 Btuh) gross
THC	—	Total Capacity (1000 Btuh) gross
wb	—	wet bulb

38AUZ08/40RFA08 Combination Ratings — 50 Hz — SI

38AUZ08-40RFA08				AMBIENT TEMPERATURE (°C)														
				29			35			41			46			52		
				EA (db)			EA (db)			EA (db)			EA (db)			EA (db)		
				24	27	29	24	27	29	24	27	29	24	27	29	24	27	29
1062 L/S	EA (wb)	14	THC	21.5	21.5	24.3	20.6	20.6	23.3	19.8	19.8	22.4	18.8	18.8	21.3	17.8	17.8	20.2
			SHC	18.7	21.5	24.3	17.9	20.6	23.3	17.2	19.8	22.4	16.4	18.8	21.3	15.5	17.8	20.2
		17	THC	22.3	22.3	23.4	21.3	21.3	22.9	20.2	20.2	22.4	19.0	19.0	21.7	17.9	17.9	21.0
			SHC	16.9	20.2	23.4	16.5	19.7	22.9	16.0	19.2	22.4	15.4	18.6	21.7	14.7	17.8	21.0
		19	THC	24.5	24.5	24.5	23.3	23.3	23.3	22.1	22.1	22.1	20.8	20.8	20.8	19.4	19.4	19.4
			SHC	13.7	16.9	20.0	13.2	16.4	19.6	12.7	15.9	19.1	12.2	15.4	18.6	11.7	14.9	18.1
		22	THC	26.8	26.8	26.8	25.6	25.6	25.6	24.2	24.2	24.2	22.9	22.9	22.9	21.4	21.4	21.4
			SHC	10.4	13.5	16.6	9.9	13.0	16.2	9.4	12.6	15.7	8.9	12.1	15.2	8.4	11.5	14.7
		24	THC	—	28.9	28.9	—	27.5	27.5	—	26.1	26.1	—	24.5	24.5	—	22.9	22.9
			SHC	—	10.8	14.4	—	10.3	13.0	—	9.9	12.8	—	9.4	12.4	—	8.9	12.0
1251 L/S	EA (wb)	14	THC	22.7	22.7	25.6	21.7	21.7	24.6	20.8	20.8	23.5	19.8	19.8	22.3	18.7	18.7	21.1
			SHC	19.7	22.7	25.6	18.9	21.7	24.6	18.1	20.8	23.5	17.2	19.8	22.3	16.3	18.7	21.1
		17	THC	23.0	23.0	25.7	22.0	22.0	25.1	21.0	21.0	24.1	20.3	20.3	21.8	18.7	18.7	22.0
			SHC	18.3	22.0	25.7	17.8	21.4	25.1	17.0	20.5	24.1	15.7	18.7	21.8	15.5	18.7	22.0
		19	THC	25.2	25.2	25.2	23.9	23.9	23.9	22.7	22.7	22.7	21.3	21.3	21.3	19.9	19.9	19.9
			SHC	14.5	18.2	21.9	14.0	17.7	21.4	13.6	17.3	21.0	13.0	16.8	20.5	12.5	16.2	19.9
		22	THC	27.6	27.6	27.6	26.2	26.2	26.2	24.8	24.8	24.8	23.3	23.3	23.3	21.8	21.8	21.8
			SHC	10.7	14.3	18.0	10.2	13.9	17.5	9.7	13.4	17.0	9.2	12.8	16.5	8.6	12.3	16.0
		24	THC	—	29.6	29.6	—	28.2	28.2	—	26.6	26.6	—	25.1	25.1	—	23.4	23.4
			SHC	—	11.2	14.5	—	10.7	14.2	—	10.2	13.7	—	9.7	13.3	—	9.2	12.8
1416 L/S	EA (wb)	14	THC	23.5	23.5	26.5	22.5	22.5	25.5	21.5	21.5	24.3	20.5	20.5	23.1	19.3	19.3	21.8
			SHC	20.4	23.5	26.5	19.6	22.5	25.5	18.8	21.5	24.3	17.8	20.5	23.1	16.8	19.3	21.8
		17	THC	23.6	23.6	27.2	22.7	22.7	26.0	21.8	21.8	24.2	20.5	20.5	24.0	19.3	19.3	22.7
			SHC	19.3	23.2	27.2	18.4	22.2	26.0	17.3	20.8	24.2	16.9	20.5	24.0	16.0	19.3	22.7
		19	THC	25.6	25.6	25.6	24.4	24.4	24.4	23.0	23.0	23.0	21.6	21.6	22.0	20.2	20.2	21.4
			SHC	15.2	19.4	23.5	14.8	18.9	23.0	14.3	18.4	22.5	13.7	17.9	22.0	13.2	17.3	21.4
		22	THC	28.0	28.0	28.0	26.6	26.6	26.6	25.2	25.2	25.2	23.7	23.7	23.7	22.1	22.1	22.1
			SHC	10.9	15.0	19.0	10.4	14.5	18.6	9.9	14.0	18.1	9.4	13.5	17.6	8.9	13.0	17.1
		24	THC	—	30.1	30.1	—	28.6	28.6	—	27.0	27.0	—	25.4	25.4	—	23.7	23.7
			SHC	—	11.5	15.3	—	11.0	14.9	—	10.5	14.5	—	10.0	14.0	—	9.4	13.5
1605 L/S	EA (wb)	14	THC	24.3	24.3	27.5	23.3	23.3	26.3	22.2	22.2	25.1	21.1	21.1	23.8	19.9	19.9	22.5
			SHC	21.2	24.3	27.5	20.3	23.3	26.3	19.3	22.2	25.1	18.3	21.1	23.8	17.3	19.9	22.5
		17	THC	24.5	24.5	27.8	23.3	23.3	27.3	22.2	22.2	26.1	21.1	21.1	24.7	19.9	19.9	23.3
			SHC	19.8	23.8	27.8	19.3	23.3	27.3	18.4	22.2	26.1	17.4	21.1	24.7	16.4	19.9	23.3
		19	THC	26.1	26.1	26.1	24.8	24.8	24.8	23.4	23.4	24.2	22.3	22.3	22.7	20.5	20.5	23.2
			SHC	16.0	20.6	25.2	15.6	20.2	24.7	15.1	19.7	24.2	14.1	18.4	22.7	14.2	18.7	23.2
		22	THC	28.5	28.5	28.5	27.0	27.0	27.0	25.6	25.6	25.6	24.0	24.0	24.0	22.4	22.4	22.4
			SHC	11.1	15.7	20.3	10.7	15.2	19.8	10.2	14.7	19.3	9.6	14.2	18.7	9.1	13.7	18.2
		24	THC	—	30.5	30.5	—	28.9	28.9	—	27.3	27.3	—	25.6	25.6	—	23.9	23.9
			SHC	—	11.7	16.1	—	11.2	15.6	—	10.7	15.2	—	10.2	14.7	—	9.7	14.2
1770 L/S	EA (wb)	14	THC	24.9	24.9	28.1	23.8	23.8	26.9	22.7	22.7	25.6	21.5	21.5	24.4	20.3	20.3	22.9
			SHC	21.7	24.9	28.1	20.7	23.8	26.9	19.8	22.7	25.6	18.8	21.5	24.4	17.7	20.3	22.9
		17	THC	25.1	25.1	28.4	23.9	23.9	28.0	22.8	22.8	26.7	21.5	21.5	25.3	20.3	20.3	23.9
			SHC	20.2	24.3	28.4	19.7	23.9	28.0	18.8	22.8	26.7	17.8	21.5	25.3	16.8	20.3	23.9
		19	THC	26.4	26.4	26.7	25.1	25.1	26.2	23.7	23.7	25.4	22.5	22.5	23.4	20.7	20.7	24.4
			SHC	16.7	21.7	26.7	16.2	21.2	26.2	15.5	20.5	25.4	14.3	18.8	23.4	14.6	19.5	24.4
		22	THC	28.8	28.8	28.8	27.3	27.3	27.3	25.8	25.8	25.8	24.2	24.2	24.2	22.6	22.6	22.6
			SHC	11.3	16.3	21.2	10.8	15.8	20.7	10.3	15.3	20.3	9.8	14.7	19.7	9.3	14.2	19.1
		24	THC	—	30.7	30.7	—	29.2	29.2	—	27.6	27.6	—	25.8	25.8	—	24.0	24.0
			SHC	—	11.9	16.7	—	11.4	16.3	—	10.9	15.8	—	10.4	15.2	—	9.8	14.7

LEGEND

db	—	dry bulb
EA	—	Entering Air (°C)
SHC	—	Sensible Heat Capacity (kW) gross
THC	—	Total Capacity (kW) gross
wb	—	wet bulb

38AUZ08/40RFA08 Combination Ratings — 50 Hz — English

38AUZ08 – 40RFAA08				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
2,250 cfm	EA (wb)	58	THC	73.3	73.3	82.8	70.4	70.4	79.6	67.5	67.5	76.3	64.2	64.2	72.6	60.9	60.9	68.8
			SHC	63.7	73.3	82.8	61.2	70.4	79.6	58.7	67.5	76.3	55.9	64.2	72.6	52.9	60.9	68.8
		62	THC	76.2	76.2	79.7	72.7	72.7	78.1	68.9	68.9	76.3	65.0	65.0	74.1	61.0	61.0	71.5
			SHC	57.8	68.8	79.7	56.2	67.2	78.1	54.5	65.4	76.3	52.5	63.3	74.1	50.3	60.9	71.5
		67	THC	83.6	83.6	83.6	79.6	79.6	79.6	75.4	75.4	75.4	71.0	71.0	71.0	66.3	66.3	66.3
			SHC	46.6	57.5	68.4	45.0	55.9	66.8	43.3	54.2	65.1	41.6	52.5	63.5	39.8	50.7	61.6
		72	THC	91.6	91.6	91.6	87.3	87.3	87.3	82.7	82.7	82.7	78.0	78.0	78.0	72.9	72.9	72.9
			SHC	35.5	46.1	56.7	33.8	44.5	55.2	32.1	42.9	53.6	30.4	41.2	52.0	28.6	39.4	50.2
		76	THC	—	98.6	98.6	—	94.0	94.0	—	89.2	89.2	—	83.7	83.7	—	78.3	78.3
			SHC	—	36.7	49.0	—	35.2	44.5	—	33.7	43.7	—	32.0	42.3	—	30.3	40.8
2,625 cfm	EA (wb)	58	THC	77.3	77.3	87.4	74.2	74.2	83.8	71.0	71.0	80.3	67.4	67.4	76.2	63.8	63.8	72.1
			SHC	67.3	77.3	87.4	64.5	74.2	83.8	61.8	71.0	80.3	58.6	67.4	76.2	55.5	63.8	72.1
		62	THC	78.6	78.6	87.6	75.0	75.0	85.5	71.5	71.5	82.1	69.4	69.4	74.3	63.8	63.8	74.9
			SHC	62.5	75.0	87.6	60.6	73.0	85.5	58.1	70.1	82.1	53.5	63.9	74.3	52.8	63.8	74.9
		67	THC	85.9	85.9	85.9	81.6	81.6	81.6	77.3	77.3	77.3	72.8	72.8	72.8	68.0	68.0	68.0
			SHC	49.6	62.2	74.8	47.9	60.5	73.1	46.3	58.9	71.5	44.5	57.2	69.8	42.7	55.3	67.9
		72	THC	94.2	94.2	94.2	89.5	89.5	89.5	84.6	84.6	84.6	79.6	79.6	79.6	74.4	74.4	74.4
			SHC	36.6	48.9	61.3	34.8	47.3	59.7	33.1	45.6	58.0	31.4	43.8	56.3	29.5	42.1	54.6
		76	THC	—	101.0	101.0	—	96.1	96.1	—	90.9	90.9	—	85.5	85.5	—	79.7	79.7
			SHC	—	38.1	49.5	—	36.5	48.3	—	34.9	46.9	—	33.2	45.4	—	31.4	43.7
3,000 cfm	EA (wb)	58	THC	80.1	80.1	90.5	76.9	76.9	86.9	73.5	73.5	83.0	69.8	69.8	78.8	65.8	65.8	74.3
			SHC	69.7	80.1	90.5	67.0	76.9	86.9	64.0	73.5	83.0	60.7	69.8	78.8	57.2	65.8	74.3
		62	THC	80.6	80.6	92.7	77.5	77.5	88.8	74.5	74.5	82.7	69.8	69.8	81.8	65.9	65.9	77.3
			SHC	65.7	79.2	92.7	62.9	75.9	88.8	59.1	70.9	82.7	57.7	69.8	81.8	54.5	65.9	77.3
		67	THC	87.4	87.4	87.4	83.2	83.2	83.2	78.6	78.6	78.6	73.8	73.8	75.1	68.8	68.8	73.1
			SHC	52.0	66.1	80.1	50.4	64.5	78.5	48.7	62.7	76.8	46.9	61.0	75.1	45.1	59.1	73.1
		72	THC	95.6	95.6	95.6	90.9	90.9	90.9	85.9	85.9	85.9	80.9	80.9	80.9	75.4	75.4	75.4
			SHC	37.2	51.1	65.0	35.6	49.5	63.4	33.9	47.8	61.7	32.1	46.1	60.0	30.3	44.2	58.2
		76	THC	—	102.6	102.6	—	97.5	97.5	—	92.2	92.2	—	86.6	86.6	—	80.7	80.7
			SHC	—	39.1	52.2	—	37.4	50.8	—	35.8	49.4	—	34.0	47.7	—	32.2	45.9
3,375 cfm	EA (wb)	58	THC	83.0	83.0	93.7	79.4	79.4	89.7	75.7	75.7	85.5	71.9	71.9	81.2	67.9	67.9	76.7
			SHC	72.2	83.0	93.7	69.1	79.4	89.7	65.9	75.7	85.5	62.6	71.9	81.2	59.1	67.9	76.7
		62	THC	83.6	83.6	94.9	79.5	79.5	93.2	75.8	75.8	88.9	71.9	71.9	84.4	67.8	67.8	79.5
			SHC	67.5	81.2	94.9	65.7	79.5	93.2	62.7	75.8	88.9	59.5	71.9	84.4	56.1	67.8	79.5
		67	THC	88.9	88.9	88.9	84.5	84.5	84.5	79.9	79.9	82.7	76.0	76.0	77.5	69.8	69.8	79.2
			SHC	54.7	70.4	86.0	53.1	68.8	84.4	51.4	67.1	82.7	48.1	62.8	77.5	48.3	63.7	79.2
		72	THC	97.1	97.1	97.1	92.2	92.2	92.2	87.2	87.2	87.2	81.9	81.9	81.9	76.4	76.4	76.4
			SHC	38.0	53.6	69.1	36.4	51.9	67.4	34.7	50.2	65.7	32.9	48.4	63.9	31.1	46.6	62.1
		76	THC	—	104.2	104.2	—	98.7	98.7	—	93.3	93.3	—	87.5	87.5	—	81.5	81.5
			SHC	—	40.0	55.0	—	38.3	53.4	—	36.6	51.9	—	34.8	50.1	—	33.0	48.3
3,750 cfm	EA (wb)	58	THC	84.9	84.9	95.9	81.3	81.3	91.8	77.5	77.5	87.5	73.5	73.5	83.1	69.3	69.3	78.3
			SHC	73.9	84.9	95.9	70.8	81.3	91.8	67.5	77.5	87.5	64.0	73.5	83.1	60.4	69.3	78.3
		62	THC	85.7	85.7	96.9	81.4	81.4	95.4	77.7	77.7	91.1	73.5	73.5	86.2	69.4	69.4	81.4
			SHC	68.9	82.9	96.9	67.3	81.4	95.4	64.3	77.7	91.1	60.8	73.5	86.2	57.4	69.4	81.4
		67	THC	90.0	90.0	91.0	85.5	85.5	89.4	80.7	80.7	86.8	76.9	76.9	79.7	70.5	70.5	83.1
			SHC	57.0	74.0	91.0	55.4	72.4	89.4	52.8	69.8	86.8	48.7	64.2	79.7	49.7	66.4	83.1
		72	THC	98.1	98.1	98.1	93.2	93.2	93.2	88.1	88.1	88.1	82.5	82.5	82.5	77.0	77.0	77.0
			SHC	38.6	55.5	72.4	37.0	53.8	70.7	35.3	52.2	69.1	33.5	50.3	67.2	31.7	48.5	65.3
		76	THC	—	104.9	104.9	—	99.6	99.6	—	94.2	94.2	—	88.1	88.1	—	81.9	81.9
			SHC	—	40.6	57.0	—	38.9	55.5	—	37.3	53.8	—	35.4	52.0	—	33.5	50.0

LEGEND

db	—	dry bulb
EA	—	Entering Air (°C)
SHC	—	Sensible Heat Capacity (kW) gross
THC	—	Total Capacity (kW) gross
wb	—	wet bulb

38AUD12/40RFA12 Combination Ratings — 50 Hz — SI

38AUD12-40RFA12				AMBIENT TEMPERATURE (°C)														
				29			35			41			46			52		
				EA (db)			EA (db)			EA (db)			EA (db)			EA (db)		
				24	27	29	24	27	29	24	27	29	24	27	29	24	27	29
1416 L/S	EA (wb)	14	THC	26.3	26.3	29.9	25.3	25.3	28.8	24.2	24.2	27.6	23.0	23.0	26.2	21.8	21.8	24.8
			SHC	22.6	26.3	29.9	21.7	25.3	28.8	20.8	24.2	27.6	19.8	23.0	26.2	18.8	21.8	24.8
		17	THC	27.3	27.3	29.3	26.0	26.0	28.6	24.6	24.6	28.0	23.3	23.3	26.9	21.9	21.9	25.6
			SHC	20.6	25.0	29.3	20.0	24.4	28.6	19.4	23.7	28.0	18.6	22.7	26.9	17.7	21.7	25.6
		19	THC	30.3	30.3	30.3	28.9	28.9	28.9	27.4	27.4	27.4	25.7	25.7	25.7	23.9	23.9	23.9
			SHC	16.6	20.9	25.2	16.1	20.4	24.7	15.5	19.8	24.1	14.9	19.2	23.5	14.2	18.6	22.9
		22	THC	33.8	33.8	33.8	32.1	32.1	32.1	30.5	30.5	30.5	28.7	28.7	28.7	26.7	26.7	26.7
			SHC	12.6	16.8	21.0	12.0	16.2	20.5	11.4	15.7	19.9	10.8	15.1	19.4	10.1	14.4	18.7
		24	THC	—	36.8	36.8	—	35.0	35.0	—	33.2	33.2	—	31.2	31.2	—	29.1	29.1
			SHC	—	13.4	17.0	—	12.9	16.8	—	12.3	16.4	—	11.8	15.9	—	11.1	15.3
1652 L/S	EA (wb)	14	THC	27.8	27.8	31.7	26.8	26.8	30.4	25.6	25.6	29.1	24.3	24.3	27.7	23.0	23.0	26.1
			SHC	24.0	27.8	31.7	23.1	26.8	30.4	22.1	25.6	29.1	21.0	24.3	27.7	19.8	23.0	26.1
		17	THC	28.3	28.3	32.1	26.9	26.9	31.3	25.6	25.6	30.3	24.5	24.5	28.5	23.0	23.0	27.2
			SHC	22.4	27.3	32.1	21.7	26.5	31.3	21.0	25.6	30.3	19.8	24.1	28.5	18.8	23.0	27.2
		19	THC	31.2	31.2	31.2	29.7	29.7	29.7	28.0	28.0	28.0	26.3	26.3	26.3	24.5	24.5	25.3
			SHC	17.8	22.8	27.8	17.3	22.2	27.2	16.7	21.7	26.6	16.1	21.0	26.0	15.4	20.3	25.3
		22	THC	34.7	34.7	34.7	33.0	33.0	33.0	31.2	31.2	31.2	29.3	29.3	29.3	27.3	27.3	27.3
			SHC	13.1	18.0	22.9	12.5	17.4	22.3	11.9	16.8	21.7	11.3	16.2	21.2	10.6	15.6	20.5
		24	THC	—	37.7	37.7	—	35.8	35.8	—	33.9	33.9	—	31.8	31.8	—	29.6	29.6
			SHC	—	14.1	18.6	—	13.5	18.2	—	13.0	17.7	—	12.3	17.1	—	11.7	16.5
1888 L/S	EA (wb)	14	THC	29.1	29.1	33.1	28.0	28.0	31.8	26.7	26.7	30.4	25.4	25.4	28.9	23.9	23.9	27.2
			SHC	25.1	29.1	33.1	24.2	28.0	31.8	23.1	26.7	30.4	22.0	25.4	28.9	20.7	23.9	27.2
		17	THC	29.2	29.2	34.3	28.1	28.1	32.8	26.8	26.8	31.7	25.4	25.4	30.0	23.9	23.9	28.3
			SHC	23.8	29.1	34.3	22.8	27.8	32.8	22.0	26.8	31.7	20.8	25.4	30.0	19.6	23.9	28.3
		19	THC	31.9	31.9	31.9	30.3	30.3	30.3	28.7	28.7	29.0	26.9	26.9	28.3	25.0	25.0	27.5
			SHC	19.0	24.6	30.2	18.4	24.0	29.6	17.8	23.4	29.0	17.2	22.7	28.3	16.5	22.0	27.5
		22	THC	35.3	35.3	35.3	33.6	33.6	33.6	31.8	31.8	31.8	29.8	29.8	29.8	27.8	27.8	27.8
			SHC	13.6	19.1	24.6	13.0	18.5	24.0	12.4	17.9	23.4	11.8	17.3	22.9	11.1	16.6	22.2
		24	THC	—	38.3	38.3	—	36.4	36.4	—	34.4	34.4	—	32.3	32.3	—	30.0	30.0
			SHC	—	14.6	19.9	—	14.1	19.4	—	13.5	18.9	—	12.8	18.3	—	12.2	17.6
2124 L/S	EA (wb)	14	THC	30.2	30.2	34.3	29.0	29.0	32.9	27.7	27.7	31.4	26.3	26.3	29.8	24.7	24.7	28.1
			SHC	26.2	30.2	34.3	25.1	29.0	32.9	23.9	27.7	31.4	22.7	26.3	29.8	21.4	24.7	28.1
		17	THC	30.5	30.5	34.8	29.1	29.1	34.3	27.7	27.7	32.7	26.3	26.3	31.0	24.8	24.8	29.2
			SHC	24.4	29.6	34.8	23.8	29.1	34.3	22.7	27.7	32.7	21.6	26.3	31.0	20.3	24.8	29.2
		19	THC	32.5	32.5	32.5	30.8	30.8	31.8	29.1	29.1	31.2	27.3	27.3	30.4	25.4	25.4	29.6
			SHC	20.1	26.3	32.5	19.5	25.7	31.8	18.9	25.0	31.2	18.2	24.3	30.4	17.5	23.6	29.6
		22	THC	35.9	35.9	35.9	34.1	34.1	34.1	32.3	32.3	32.3	30.2	30.2	30.2	28.1	28.1	28.1
			SHC	14.0	20.1	26.3	13.4	19.5	25.7	12.8	19.0	25.1	12.2	18.3	24.5	11.5	17.6	23.8
		24	THC	—	38.9	38.9	—	36.9	36.9	—	34.8	34.8	—	32.7	32.7	—	30.3	30.3
			SHC	—	15.1	21.1	—	14.5	20.5	—	14.0	20.0	—	13.3	19.4	—	12.6	18.7
2360 L/S	EA (wb)	14	THC	31.2	31.2	35.3	29.9	29.9	33.9	28.5	28.5	32.3	27.0	27.0	30.7	25.4	25.4	28.8
			SHC	27.0	31.2	35.3	25.9	29.9	33.9	24.7	28.5	32.3	23.4	27.0	30.7	22.0	25.4	28.8
		17	THC	31.2	31.2	36.8	29.9	29.9	35.3	28.5	28.5	33.6	27.1	27.1	31.9	25.4	25.4	30.0
			SHC	25.6	31.2	36.8	24.6	29.9	35.3	23.4	28.5	33.6	22.2	27.1	31.9	20.9	25.4	30.0
		19	THC	32.9	32.9	34.6	31.2	31.2	34.0	29.5	29.5	33.2	27.7	27.7	32.4	25.9	25.9	31.4
			SHC	21.1	27.9	34.6	20.5	27.2	34.0	19.9	26.6	33.2	19.2	25.8	32.4	18.4	24.9	31.4
		22	THC	36.4	36.4	36.4	34.5	34.5	34.5	32.6	32.6	32.6	30.6	30.6	30.6	28.4	28.4	28.4
			SHC	14.4	21.1	27.8	13.8	20.5	27.3	13.2	19.9	26.7	12.5	19.3	26.0	11.8	18.6	25.3
		24	THC	—	39.3	39.3	—	37.3	37.3	—	35.2	35.2	—	33.0	33.0	—	30.6	30.6
			SHC	—	15.6	22.2	—	15.0	21.6	—	14.4	21.0	—	13.7	20.4	—	13.0	19.7

LEGEND

db	—	dry bulb
EA	—	Entering Air (°C)
SHC	—	Sensible Heat Capacity (kW) gross
THC	—	Total Capacity (kW) gross
wb	—	wet bulb

38AUD12/40RFA12 Combination Ratings — 50 Hz — English

38AUDT12-40RFAA12				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
3,000 cfm	EA (wb)	58	THC	89.6	89.6	102.0	86.2	86.2	98.2	82.6	82.6	94.1	78.6	78.6	89.5	74.3	74.3	84.6
			SHC	77.1	89.6	102.0	74.2	86.2	98.2	71.1	82.6	94.1	67.7	78.6	89.5	64.0	74.3	84.6
		62	THC	93.0	93.0	99.9	88.6	88.6	97.7	84.0	84.0	95.4	79.4	79.4	91.7	74.7	74.7	87.5
			SHC	70.4	85.2	99.9	68.4	83.1	97.7	66.3	80.8	95.4	63.4	77.6	91.7	60.3	73.9	87.5
		67	THC	103.4	103.4	103.4	98.5	98.5	98.5	93.4	93.4	93.4	87.7	87.7	87.7	81.7	81.7	81.7
			SHC	56.7	71.4	86.1	54.8	69.5	84.3	52.9	67.6	82.4	50.8	65.5	80.3	48.5	63.3	78.0
		72	THC	115.3	115.3	115.3	109.7	109.7	109.7	104.0	104.0	104.0	97.9	97.9	97.9	91.1	91.1	91.1
			SHC	42.9	57.3	71.7	40.9	55.4	69.9	38.9	53.5	68.0	36.8	51.5	66.1	34.6	49.2	63.9
		76	THC	—	125.5	125.5	—	119.5	119.5	—	113.2	113.2	—	106.5	106.5	—	99.2	99.2
			SHC	—	45.7	58.0	—	44.0	57.2	—	42.1	55.8	—	40.1	54.1	—	37.9	52.2
3,500 cfm	EA (wb)	58	THC	95.0	95.0	108.0	91.3	91.3	103.8	87.3	87.3	99.3	83.0	83.0	94.4	78.4	78.4	89.2
			SHC	81.9	95.0	108.0	78.7	91.3	103.8	75.3	87.3	99.3	71.6	83.0	94.4	67.6	78.4	89.2
		62	THC	96.4	96.4	109.6	91.8	91.8	106.9	87.5	87.5	103.5	83.6	83.6	97.4	78.5	78.5	92.8
			SHC	76.4	93.0	109.6	74.1	90.5	106.9	71.5	87.5	103.5	67.5	82.4	97.4	64.1	78.5	92.8
		67	THC	106.5	106.5	106.5	101.3	101.3	101.3	95.7	95.7	95.7	89.9	89.9	89.9	83.6	83.6	86.3
			SHC	60.9	77.9	94.8	59.0	75.9	92.9	56.9	73.9	90.8	54.8	71.8	88.7	52.5	69.4	86.3
		72	THC	118.3	118.3	118.3	112.5	112.5	112.5	106.5	106.5	106.5	100.1	100.1	100.1	93.1	93.1	93.1
			SHC	44.7	61.3	78.0	42.7	59.4	76.1	40.7	57.4	74.2	38.5	55.3	72.2	36.3	53.1	70.0
		76	THC	—	128.6	128.6	—	122.3	122.3	—	115.7	115.7	—	108.6	108.6	—	101.1	101.1
			SHC	—	48.0	63.6	—	46.1	62.1	—	44.2	60.4	—	42.1	58.5	—	39.8	56.4
4,000 cfm	EA (wb)	58	THC	99.4	99.4	112.9	95.5	95.5	108.5	91.2	91.2	103.7	86.7	86.7	98.5	81.6	81.6	92.7
			SHC	85.8	99.4	112.9	82.5	95.5	108.5	78.8	91.2	103.7	74.9	86.7	98.5	70.5	81.6	92.7
		62	THC	99.6	99.6	117.2	96.0	96.0	111.8	91.4	91.4	108.0	86.7	86.7	102.4	81.7	81.7	96.5
			SHC	81.3	99.3	117.2	77.8	94.8	111.8	74.9	91.4	108.0	71.0	86.7	102.4	66.9	81.7	96.5
		67	THC	108.8	108.8	108.8	103.5	103.5	103.5	97.8	97.8	98.9	91.7	91.7	96.5	85.2	85.2	94.0
			SHC	64.9	83.9	103.0	62.9	82.0	101.0	60.9	79.9	98.9	58.6	77.5	96.5	56.2	75.1	94.0
		72	THC	120.6	120.6	120.6	114.7	114.7	114.7	108.4	108.4	108.4	101.8	101.8	101.8	94.7	94.7	94.7
			SHC	46.3	65.1	83.9	44.3	63.2	82.0	42.2	61.1	80.0	40.1	59.0	78.0	37.8	56.7	75.7
		76	THC	—	130.8	130.8	—	124.3	124.3	—	117.5	117.5	—	110.3	110.3	—	102.5	102.5
			SHC	—	49.9	68.0	—	48.0	66.3	—	46.0	64.4	—	43.8	62.4	—	41.6	60.2
4,500 cfm	EA (wb)	58	THC	103.2	103.2	117.1	99.1	99.1	112.4	94.5	94.5	107.2	89.6	89.6	101.7	84.4	84.4	95.8
			SHC	89.3	103.2	117.1	85.7	99.1	112.4	81.7	94.5	107.2	77.5	89.6	101.7	73.0	84.4	95.8
		62	THC	104.1	104.1	118.9	99.2	99.2	117.0	94.6	94.6	111.6	89.7	89.7	105.8	84.5	84.5	99.6
			SHC	83.3	101.1	118.9	81.3	99.2	117.0	77.6	94.6	111.6	73.6	89.7	105.8	69.3	84.5	99.6
		67	THC	110.9	110.9	111.0	105.1	105.1	108.6	99.4	99.4	106.3	93.2	93.2	103.8	86.6	86.6	101.1
			SHC	68.7	89.8	111.0	66.5	87.6	108.6	64.4	85.4	106.3	62.1	83.0	103.8	59.7	80.4	101.1
		72	THC	122.5	122.5	122.5	116.4	116.4	116.4	110.1	110.1	110.1	103.2	103.2	103.2	95.9	95.9	95.9
			SHC	47.7	68.6	89.6	45.7	66.7	87.7	43.7	64.7	85.7	41.5	62.5	83.5	39.1	60.1	81.1
		76	THC	—	132.6	132.6	—	126.0	126.0	—	118.9	118.9	—	111.6	111.6	—	103.5	103.5
			SHC	—	51.6	71.9	—	49.6	70.1	—	47.6	68.2	—	45.4	66.1	—	43.1	63.8
5,000 cfm	EA (wb)	58	THC	106.4	106.4	120.6	102.0	102.0	115.7	97.3	97.3	110.3	92.2	92.2	104.6	86.8	86.8	98.4
			SHC	92.1	106.4	120.6	88.3	102.0	115.7	84.2	97.3	110.3	79.9	92.2	104.6	75.1	86.8	98.4
		62	THC	106.6	106.6	125.6	102.1	102.1	120.3	97.3	97.3	114.7	92.4	92.4	108.9	86.8	86.8	102.3
			SHC	87.5	106.6	125.6	83.8	102.1	120.3	79.9	97.3	114.7	75.9	92.4	108.9	71.3	86.8	102.3
		67	THC	112.4	112.4	118.1	106.6	106.6	115.9	100.7	100.7	113.4	94.5	94.5	110.6	88.3	88.3	107.0
			SHC	72.1	95.1	118.1	70.0	92.9	115.9	67.8	90.6	113.4	65.4	88.0	110.6	62.7	84.9	107.0
		72	THC	124.1	124.1	124.1	117.8	117.8	117.8	111.3	111.3	111.3	104.3	104.3	104.3	96.8	96.8	96.8
			SHC	49.0	72.0	95.0	47.0	70.1	93.1	45.0	68.0	91.0	42.8	65.8	88.8	40.4	63.4	86.4
		76	THC	—	134.1	134.1	—	127.4	127.4	—	120.2	120.2	—	112.6	112.6	—	104.5	104.5
			SHC	—	53.1	75.6	—	51.2	73.7	—	49.1	71.7	—	46.8	69.5	—	44.5	67.2

LEGEND

db	—	dry bulb
EA	—	Entering Air (°F)
SHC	—	Sensible Heat Capacity (1000 Btuh) gross
THC	—	Total Capacity (1000 Btuh) gross
wb	—	wet bulb

38AUD14/40RUA14 Combination Ratings — 50 Hz — SI

38AUD14–40RUA14				AMBIENT TEMPERATURE (°C)														
				29			35			41			46			52		
				EA (db)			EA (db)			EA (db)			EA (db)			EA (db)		
				24	27	29	24	27	29	24	27	29	24	27	29	24	27	29
1770 L/S	EA (wb)	14	THC	31.5	31.5	36.0	30.3	30.3	34.6	29.0	29.0	33.2	27.7	27.7	31.6	26.1	26.1	29.9
			SHC	27.0	31.5	36.0	26.0	30.3	34.6	24.9	29.0	33.2	23.7	27.7	31.6	22.4	26.1	29.9
		17	THC	32.3	32.3	36.1	30.8	30.8	35.3	29.2	29.2	34.3	27.9	27.9	32.6	26.2	26.2	31.2
			SHC	25.0	30.5	36.1	24.3	29.8	35.3	23.4	28.9	34.3	22.3	27.4	32.6	21.2	26.2	31.2
		19	THC	36.1	36.1	36.1	34.4	34.4	34.4	32.6	32.6	32.6	30.6	30.6	30.6	28.5	28.5	28.5
			SHC	19.8	25.4	31.0	19.2	24.8	30.4	18.5	24.1	29.7	17.8	23.4	29.0	17.1	22.7	28.3
		22	THC	40.3	40.3	40.3	38.4	38.4	38.4	36.4	36.4	36.4	34.3	34.3	34.3	32.1	32.1	32.1
			SHC	14.6	20.1	25.6	14.0	19.5	25.0	13.3	18.8	24.4	12.6	18.2	23.7	11.9	17.4	23.0
		24	THC	—	43.8	43.8	—	41.8	41.8	—	39.7	39.7	—	37.5	37.5	—	35.1	35.1
			SHC	—	15.8	20.9	—	15.2	20.4	—	14.6	19.9	—	14.0	19.3	—	13.2	18.6
2077 L/S	EA (wb)	14	THC	33.5	33.5	38.2	32.2	32.2	36.8	30.9	30.9	35.2	29.3	29.3	33.5	27.7	27.7	31.6
			SHC	28.8	33.5	38.2	27.7	32.2	36.8	26.5	30.9	35.2	25.2	29.3	33.5	23.8	27.7	31.6
		17	THC	33.8	33.8	39.3	32.4	32.4	38.0	30.9	30.9	36.7	29.4	29.4	34.9	27.7	27.7	32.9
			SHC	27.1	33.2	39.3	26.1	32.1	38.0	25.1	30.9	36.7	23.9	29.4	34.9	22.6	27.7	32.9
		19	THC	37.2	37.2	37.2	36.0	36.0	36.0	33.5	33.5	33.5	31.4	31.4	32.4	30.1	30.1	30.1
			SHC	21.5	28.0	34.4	20.7	26.7	32.7	20.2	26.6	33.1	19.5	25.9	32.4	18.0	23.9	29.8
		22	THC	41.3	41.3	41.3	39.4	39.4	39.4	37.4	37.4	37.4	35.2	35.2	35.2	32.8	32.8	32.8
			SHC	15.3	21.7	28.1	14.7	21.1	27.5	14.0	20.4	26.8	13.3	19.7	26.1	12.5	19.0	25.4
		24	THC	—	44.9	44.9	—	42.8	42.8	—	40.6	40.6	—	38.3	38.3	—	35.8	35.8
			SHC	—	16.6	22.7	—	16.0	22.2	—	15.4	21.6	—	14.7	21.0	—	14.0	20.3
2360 L/S	EA (wb)	14	THC	35.1	35.1	39.9	33.7	33.7	38.4	32.2	32.2	36.7	30.6	30.6	34.9	28.9	28.9	32.9
			SHC	30.2	35.1	39.9	29.0	33.7	38.4	27.8	32.2	36.7	26.4	30.6	34.9	24.9	28.9	32.9
		17	THC	35.1	35.1	41.6	33.7	33.7	40.0	32.3	32.3	38.2	30.7	30.7	36.3	28.9	28.9	34.3
			SHC	28.6	35.1	41.6	27.5	33.7	40.0	26.3	32.3	38.2	25.0	30.7	36.3	23.6	28.9	34.3
		19	THC	38.5	38.5	38.5	36.1	36.1	36.8	34.1	34.1	36.1	32.7	32.7	33.7	29.8	29.8	34.5
			SHC	22.7	29.6	36.5	22.3	29.6	36.8	21.6	28.9	36.1	20.2	27.0	33.7	20.1	27.3	34.5
		22	THC	42.1	42.1	42.1	40.1	40.1	40.1	38.0	38.0	38.0	35.8	35.8	35.8	33.3	33.3	33.3
			SHC	15.9	23.1	30.3	15.3	22.4	29.7	14.6	21.8	29.0	13.9	21.1	28.3	13.1	20.3	27.5
		24	THC	—	45.7	45.7	—	43.6	43.6	—	41.3	41.3	—	38.9	38.9	—	36.3	36.3
			SHC	—	17.3	24.3	—	16.7	23.7	—	16.1	23.1	—	15.4	22.4	—	14.6	21.7
2667 L/S	EA (wb)	14	THC	36.5	36.5	41.5	35.0	35.0	39.8	33.5	33.5	38.0	31.8	31.8	36.1	29.9	29.9	34.0
			SHC	31.4	36.5	41.5	30.2	35.0	39.8	28.9	33.5	38.0	27.4	31.8	36.1	25.8	29.9	34.0
		17	THC	36.5	36.5	43.2	35.1	35.1	41.4	33.5	33.5	39.6	31.8	31.8	37.6	30.0	30.0	35.4
			SHC	29.8	36.5	43.2	28.6	35.1	41.4	27.4	33.5	39.6	26.0	31.8	37.6	24.5	30.0	35.4
		19	THC	38.6	38.6	40.6	37.4	37.4	38.2	34.7	34.7	39.2	32.6	32.6	38.4	30.6	30.6	36.2
			SHC	24.5	32.6	40.6	23.1	30.6	38.2	23.1	31.2	39.2	22.4	30.4	38.4	21.1	28.6	36.2
		22	THC	42.8	42.8	42.8	40.8	40.8	40.8	38.6	38.6	38.6	36.3	36.3	36.3	33.7	33.7	33.7
			SHC	16.5	24.5	32.6	15.8	23.9	31.9	15.2	23.2	31.2	14.4	22.4	30.5	13.7	21.7	29.7
		24	THC	—	46.3	46.3	—	44.2	44.2	—	41.9	41.9	—	39.4	39.4	—	36.7	36.7
			SHC	—	18.0	25.8	—	17.3	25.2	—	16.7	24.6	—	15.9	23.9	—	15.2	23.1
2950 L/S	EA (wb)	14	THC	37.5	37.5	42.7	36.0	36.0	41.0	34.4	34.4	39.1	32.7	32.7	37.1	30.7	30.7	34.9
			SHC	32.4	37.5	42.7	31.1	36.0	41.0	29.7	34.4	39.1	28.2	32.7	37.1	26.6	30.7	34.9
		17	THC	37.6	37.6	44.4	36.1	36.1	42.6	34.5	34.5	40.7	32.7	32.7	38.6	30.8	30.8	36.4
			SHC	30.8	37.6	44.4	29.5	36.1	42.6	28.2	34.5	40.7	26.8	32.7	38.6	25.2	30.8	36.4
		19	THC	39.7	39.7	41.9	37.2	37.2	42.6	35.1	35.1	41.9	33.0	33.0	40.7	30.9	30.9	38.6
			SHC	25.1	33.5	41.9	25.1	33.9	42.6	24.4	33.1	41.9	23.5	32.1	40.7	22.2	30.5	38.6
		22	THC	43.3	43.3	43.3	41.2	41.2	41.2	39.0	39.0	39.0	36.6	36.6	36.6	34.1	34.1	34.1
			SHC	16.9	25.8	34.6	16.3	25.1	33.9	15.6	24.4	33.2	14.9	23.7	32.5	14.1	22.9	31.7
		24	THC	—	46.8	46.8	—	44.6	44.6	—	42.3	42.3	—	39.7	39.7	—	37.0	37.0
			SHC	—	18.5	27.1	—	17.8	26.5	—	17.2	25.8	—	16.4	25.1	—	15.6	24.3

LEGEND

db	—	dry bulb
EA	—	Entering Air (°C)
SHC	—	Sensible Heat Capacity (kW) gross
THC	—	Total Capacity (kW) gross
wb	—	wet bulb

38AUD14/40RUA14 Combination Ratings — 50 Hz — English

38AUDT14-40RUA14				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
3,750 cfm	EA (wb)	58	THC	107.4	107.4	122.7	103.4	103.4	118.1	99.1	99.1	113.2	94.4	94.4	107.8	89.2	89.2	101.9
			SHC	92.1	107.4	122.7	88.7	103.4	118.1	85.0	99.1	113.2	80.9	94.4	107.8	76.5	89.2	101.9
		62	THC	110.1	110.1	123.2	105.0	105.0	120.6	99.7	99.7	117.2	95.1	95.1	111.2	89.3	89.3	106.3
			SHC	85.2	104.2	123.2	82.8	101.7	120.6	80.0	98.6	117.2	76.0	93.6	111.2	72.4	89.3	106.3
		67	THC	123.1	123.1	123.1	117.4	117.4	117.4	111.2	111.2	111.2	104.5	104.5	104.5	97.3	97.3	97.3
			SHC	67.6	86.6	105.7	65.5	84.5	103.6	63.2	82.3	101.3	60.8	79.9	98.9	58.3	77.3	96.4
		72	THC	137.4	137.4	137.4	131.1	131.1	131.1	124.3	124.3	124.3	117.2	117.2	117.2	109.4	109.4	109.4
			SHC	49.9	68.6	87.3	47.8	66.5	85.3	45.5	64.3	83.2	43.1	62.0	80.9	40.6	59.5	78.4
		76	THC	—	149.5	149.5	—	142.7	142.7	—	135.5	135.5	—	127.9	127.9	—	119.6	119.6
			SHC	—	54.0	71.3	—	52.0	69.7	—	49.8	67.9	—	47.6	65.9	—	45.1	63.6
4,400 cfm	EA (wb)	58	THC	114.4	114.4	130.4	110.0	110.0	125.4	105.3	105.3	120.0	100.1	100.1	114.2	94.5	94.5	107.8
			SHC	98.4	114.4	130.4	94.6	110.0	125.4	90.5	105.3	120.0	86.1	100.1	114.2	81.3	94.5	107.8
		62	THC	115.2	115.2	134.2	110.5	110.5	129.7	105.4	105.4	125.1	100.3	100.3	119.0	94.6	94.6	112.3
			SHC	92.4	113.3	134.2	89.1	109.4	129.7	85.7	105.4	125.1	81.6	100.3	119.0	77.0	94.6	112.3
		67	THC	126.8	126.8	126.8	122.9	122.9	122.9	114.2	114.2	114.2	107.3	107.3	110.5	102.6	102.6	102.6
			SHC	73.4	95.4	117.4	70.7	91.1	111.6	68.9	90.9	112.9	66.4	88.5	110.5	61.4	81.6	101.7
		72	THC	141.0	141.0	141.0	134.5	134.5	134.5	127.5	127.5	127.5	120.0	120.0	120.0	111.9	111.9	111.9
			SHC	52.3	74.1	95.8	50.1	71.9	93.8	47.8	69.7	91.6	45.4	67.3	89.2	42.8	64.7	86.6
		76	THC	—	153.2	153.2	—	146.2	146.2	—	138.7	138.7	—	130.7	130.7	—	122.0	122.0
			SHC	—	56.8	77.6	—	54.7	75.8	—	52.5	73.8	—	50.2	71.6	—	47.7	69.2
5,000 cfm	EA (wb)	58	THC	119.7	119.7	136.2	115.0	115.0	130.9	109.9	109.9	125.2	104.5	104.5	119.0	98.5	98.5	112.2
			SHC	103.1	119.7	136.2	99.0	115.0	130.9	94.7	109.9	125.2	90.0	104.5	119.0	84.9	98.5	112.2
		62	THC	119.8	119.8	141.9	115.1	115.1	136.4	110.1	110.1	130.4	104.6	104.6	123.9	98.7	98.7	116.9
			SHC	97.7	119.8	141.9	93.9	115.1	136.4	89.8	110.1	130.4	85.3	104.6	123.9	80.5	98.7	116.9
		67	THC	131.4	131.4	131.4	123.2	123.2	125.6	116.5	116.5	123.2	111.7	111.7	115.1	101.6	101.6	117.7
			SHC	77.6	101.0	124.4	76.2	100.9	125.6	73.8	98.5	123.2	69.0	92.1	115.1	68.6	93.1	117.7
		72	THC	143.7	143.7	143.7	136.9	136.9	136.9	129.7	129.7	129.7	122.0	122.0	122.0	113.6	113.6	113.6
			SHC	54.3	78.8	103.3	52.1	76.6	101.2	49.8	74.3	98.9	47.3	71.9	96.5	44.7	69.3	93.9
		76	THC	—	155.9	155.9	—	148.6	148.6	—	140.9	140.9	—	132.6	132.6	—	123.8	123.8
			SHC	—	59.1	82.9	—	57.0	80.9	—	54.8	78.8	—	52.4	76.5	—	49.8	74.0
5,650 cfm	EA (wb)	58	THC	124.4	124.4	141.5	119.4	119.4	135.8	114.2	114.2	129.8	108.4	108.4	123.3	102.1	102.1	116.1
			SHC	107.3	124.4	141.5	103.0	119.4	135.8	98.5	114.2	129.8	93.5	108.4	123.3	88.1	102.1	116.1
		62	THC	124.5	124.5	147.3	119.6	119.6	141.4	114.3	114.3	135.2	108.5	108.5	128.3	102.2	102.2	120.9
			SHC	101.8	124.5	147.3	97.7	119.6	141.4	93.4	114.3	135.2	88.7	108.5	128.3	83.5	102.2	120.9
		67	THC	131.7	131.7	138.7	127.6	127.6	130.3	118.3	118.3	133.8	111.2	111.2	130.9	104.4	104.4	123.6
			SHC	83.6	111.2	138.7	78.8	104.5	130.3	78.9	106.3	133.8	76.3	103.6	130.9	71.9	97.7	123.6
		72	THC	146.0	146.0	146.0	139.1	139.1	139.1	131.6	131.6	131.6	123.7	123.7	123.7	115.1	115.1	115.1
			SHC	56.2	83.6	111.1	54.0	81.4	108.9	51.7	79.1	106.6	49.2	76.6	104.1	46.6	74.0	101.4
		76	THC	—	158.1	158.1	—	150.7	150.7	—	142.8	142.8	—	134.3	134.3	—	125.1	125.1
			SHC	—	61.3	88.1	—	59.2	86.0	—	56.9	83.8	—	54.4	81.4	—	51.8	78.7
6,250 cfm	EA (wb)	58	THC	128.1	128.1	145.6	123.0	123.0	139.8	117.5	117.5	133.5	111.5	111.5	126.6	104.9	104.9	119.2
			SHC	110.7	128.1	145.6	106.2	123.0	139.8	101.5	117.5	133.5	96.3	111.5	126.6	90.6	104.9	119.2
		62	THC	128.2	128.2	151.5	123.1	123.1	145.5	117.6	117.6	138.9	111.6	111.6	131.8	105.0	105.0	124.1
			SHC	105.0	128.2	151.5	100.8	123.1	145.5	96.3	117.6	138.9	91.3	111.6	131.8	86.0	105.0	124.1
		67	THC	135.5	135.5	142.9	126.8	126.8	145.5	119.9	119.9	142.8	112.7	112.7	139.0	105.6	105.6	131.8
			SHC	85.7	114.3	142.9	85.7	115.6	145.5	83.3	113.0	142.8	80.3	109.7	139.0	75.9	103.9	131.8
		72	THC	147.7	147.7	147.7	140.6	140.6	140.6	133.1	133.1	133.1	125.0	125.0	125.0	116.3	116.3	116.3
			SHC	57.8	87.9	117.9	55.6	85.7	115.7	53.3	83.3	113.3	50.8	80.8	110.8	48.2	78.2	108.1
		76	THC	—	159.8	159.8	—	152.2	152.2	—	144.2	144.2	—	135.5	135.5	—	126.3	126.3
			SHC	—	63.1	92.5	—	60.9	90.4	—	58.6	88.1	—	56.1	85.6	—	53.4	82.9

LEGEND

db	—	dry bulb
EA	—	Entering Air (°F)
SHC	—	Sensible Heat Capacity (1000 Btuh) gross
THC	—	Total Capacity (1000 Btuh) gross
wb	—	wet bulb

38AUD16/40RUA16 Combination Ratings — 50 Hz — SI

38AUD16-40RUA16				AMBIENT TEMPERATURE (°C)														
				29			35			41			46			52		
				EA (db)			EA (db)			EA (db)			EA (db)			EA (db)		
				24	27	29	24	27	29	24	27	29	24	27	29	24	27	29
2124 L/S	EA (wb)	14	THC	44.1	44.1	49.9	42.5	42.5	48.0	40.7	40.7	46.1	38.9	38.9	44.0	37.0	37.0	41.8
			SHC	38.3	44.1	49.9	36.9	42.5	48.0	35.4	40.7	46.1	33.8	38.9	44.0	32.1	37.0	41.8
		17	THC	45.9	45.9	48.2	43.8	43.8	47.2	41.6	41.6	46.1	39.3	39.3	44.8	37.5	37.5	41.7
			SHC	34.9	41.5	48.2	33.9	40.6	47.2	32.9	39.5	46.1	31.7	38.3	44.8	29.7	35.7	41.7
		19	THC	50.5	50.5	50.5	48.2	48.2	48.2	45.8	45.8	45.8	43.2	43.2	43.2	40.6	40.6	40.6
			SHC	28.2	34.8	41.4	27.3	33.9	40.6	26.3	33.0	39.7	25.4	32.1	38.7	24.4	31.0	37.7
		22	THC	55.7	55.7	55.7	53.2	53.2	53.2	50.5	50.5	50.5	47.7	47.7	47.7	44.8	44.8	44.8
			SHC	21.5	28.0	34.5	20.6	27.1	33.7	19.6	26.2	32.8	18.6	25.3	31.9	17.6	24.3	30.9
		24	THC	—	60.2	60.2	—	57.5	57.5	—	54.6	54.6	—	51.6	51.6	—	48.5	48.5
			SHC	—	22.4	28.8	—	21.6	27.4	—	20.7	26.8	—	19.7	26.1	—	18.8	25.2
2478 L/S	EA (wb)	14	THC	46.5	46.5	52.5	44.7	44.7	50.6	42.8	42.8	48.4	40.9	40.9	46.2	38.8	38.8	43.8
			SHC	40.4	46.5	52.5	38.9	44.7	50.6	37.2	42.8	48.4	35.5	40.9	46.2	33.7	38.8	43.8
		17	THC	47.4	47.4	52.7	45.2	45.2	51.3	43.1	43.1	49.7	41.0	41.0	47.7	38.8	38.8	45.5
			SHC	37.6	45.2	52.7	36.5	43.9	51.3	35.2	42.4	49.7	33.6	40.6	47.7	32.1	38.8	45.5
		19	THC	51.8	51.8	51.8	49.4	49.4	49.4	46.9	46.9	46.9	44.3	44.3	44.3	41.9	41.9	41.9
			SHC	30.0	37.7	45.3	29.1	36.8	44.4	28.1	35.8	43.5	27.1	34.8	42.5	26.5	34.1	41.6
		22	THC	57.1	57.1	57.1	54.5	54.5	54.5	51.7	51.7	51.7	48.8	48.8	48.8	45.7	45.7	45.7
			SHC	22.2	29.8	37.3	21.3	28.9	36.5	20.3	27.9	35.6	19.3	27.0	34.6	18.3	25.9	33.6
		24	THC	—	61.7	61.7	—	58.8	58.8	—	55.8	55.8	—	52.7	52.7	—	49.4	49.4
			SHC	—	23.3	30.3	—	22.4	29.6	—	21.5	28.9	—	20.5	28.0	—	19.5	27.1
2832 L/S	EA (wb)	14	THC	48.4	48.4	54.7	46.6	46.6	52.6	44.6	44.6	50.4	42.5	42.5	48.0	40.2	40.2	45.5
			SHC	42.1	48.4	54.7	40.5	46.6	52.6	38.8	44.6	50.4	37.0	42.5	48.0	35.0	40.2	45.5
		17	THC	48.9	48.9	55.4	47.0	47.0	53.4	44.8	44.8	51.7	42.5	42.5	49.9	40.3	40.3	47.3
			SHC	39.4	47.4	55.4	38.0	45.7	53.4	36.6	44.2	51.7	35.1	42.5	49.9	33.3	40.3	47.3
		19	THC	52.9	52.9	52.9	50.4	50.4	50.4	48.6	48.6	48.6	45.8	45.8	45.8	42.2	42.2	45.1
			SHC	31.7	40.4	49.0	30.8	39.5	48.1	29.1	37.2	45.2	28.3	36.4	44.5	27.8	36.5	45.1
		22	THC	58.2	58.2	58.2	55.5	55.5	55.5	52.6	52.6	52.6	49.6	49.6	49.6	46.4	46.4	46.4
			SHC	22.8	31.4	40.0	21.9	30.5	39.1	20.9	29.5	38.2	19.9	28.5	37.2	18.8	27.5	36.2
		24	THC	—	62.7	62.7	—	59.8	59.8	—	56.8	56.8	—	53.5	53.5	—	50.1	50.1
			SHC	—	24.1	32.3	—	23.2	31.5	—	22.2	30.7	—	21.3	29.8	—	20.3	28.8
3186 L/S	EA (wb)	14	THC	50.1	50.1	56.6	48.2	48.2	54.4	46.0	46.0	52.0	43.8	43.8	49.5	41.5	41.5	46.9
			SHC	43.6	50.1	56.6	41.9	48.2	54.4	40.1	46.0	52.0	38.1	43.8	49.5	36.1	41.5	46.9
		17	THC	50.2	50.2	58.6	48.2	48.2	56.3	46.1	46.1	54.1	43.9	43.9	51.5	41.5	41.5	48.7
			SHC	41.4	50.0	58.6	39.7	48.0	56.3	38.1	46.1	54.1	36.3	43.9	51.5	34.3	41.5	48.7
		19	THC	54.2	54.2	54.2	51.6	51.6	51.6	49.9	49.9	49.9	45.7	45.7	49.7	42.8	42.8	48.5
			SHC	33.5	42.8	52.1	32.4	41.6	51.0	30.4	38.9	47.3	30.5	40.1	49.7	29.4	38.9	48.5
		22	THC	59.1	59.1	59.1	56.2	56.2	56.2	53.3	53.3	53.3	50.2	50.2	50.2	47.0	47.0	47.0
			SHC	23.4	33.0	42.6	22.4	32.0	41.6	21.5	31.1	40.7	20.5	30.1	39.7	19.4	29.0	38.7
		24	THC	—	63.7	63.7	—	60.7	60.7	—	57.5	57.5	—	54.1	54.1	—	50.6	50.6
			SHC	—	24.8	34.1	—	23.9	33.3	—	22.9	32.4	—	21.9	31.4	—	20.9	30.4
3540 L/S	EA (wb)	14	THC	51.6	51.6	58.2	49.5	49.5	55.9	47.3	47.3	53.4	45.0	45.0	50.8	42.6	42.6	48.1
			SHC	44.9	51.6	58.2	43.1	49.5	55.9	41.1	47.3	53.4	39.2	45.0	50.8	37.0	42.6	48.1
		17	THC	51.6	51.6	60.5	49.5	49.5	58.1	47.3	47.3	55.5	45.0	45.0	52.8	42.6	42.6	49.9
			SHC	42.7	51.6	60.5	41.0	49.5	58.1	39.2	47.3	55.5	37.2	45.0	52.8	35.3	42.6	49.9
		19	THC	55.6	55.6	55.6	52.9	52.9	52.9	49.1	49.1	54.1	46.2	46.2	52.9	43.3	43.3	51.4
			SHC	34.4	44.1	53.8	33.2	42.9	52.6	33.1	43.6	54.1	32.0	42.4	52.9	30.8	41.1	51.4
		22	THC	59.8	59.8	59.8	56.9	56.9	56.9	53.9	53.9	53.9	50.7	50.7	50.7	47.4	47.4	47.4
			SHC	23.9	34.5	45.0	22.9	33.5	44.1	22.0	32.6	43.1	21.0	31.6	42.1	19.9	30.5	41.1
		24	THC	—	64.4	64.4	—	61.3	61.3	—	58.1	58.1	—	54.7	54.7	—	51.1	51.1
			SHC	—	25.4	35.7	—	24.5	34.9	—	23.5	34.0	—	22.5	33.0	—	21.4	31.9

LEGEND

db	—	dry bulb
EA	—	Entering Air (°C)
SHC	—	Sensible Heat Capacity (kW) gross
THC	—	Total Capacity (kW) gross
wb	—	wet bulb

38AUD16/40RUA16 Combination Ratings — 50 Hz — English

38AUDT16-40RUA16				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
4,500 cfm	EA (wb)	58	THC	150.4	150.4	170.1	144.9	144.9	163.8	139.0	139.0	157.2	132.8	132.8	150.1	126.2	126.2	142.7
			SHC	130.8	150.4	170.1	126.0	144.9	163.8	120.9	139.0	157.2	115.4	132.8	150.1	109.7	126.2	142.7
		62	THC	156.6	156.6	164.3	149.5	149.5	161.1	141.9	141.9	157.3	134.2	134.2	152.9	128.1	128.1	142.2
			SHC	119.0	141.6	164.3	115.8	138.4	161.1	112.3	134.8	157.3	108.3	130.6	152.9	101.4	121.8	142.2
		67	THC	172.4	172.4	172.4	164.5	164.5	164.5	156.2	156.2	156.2	147.5	147.5	147.5	138.4	138.4	138.4
			SHC	96.2	118.8	141.4	93.2	115.8	138.5	89.9	112.6	135.3	86.6	109.4	132.1	83.1	105.9	128.7
		72	THC	190.0	190.0	190.0	181.4	181.4	181.4	172.4	172.4	172.4	162.9	162.9	162.9	152.9	152.9	152.9
			SHC	73.5	95.6	117.7	70.3	92.6	114.9	67.0	89.5	111.9	63.6	86.2	108.8	60.1	82.8	105.5
		76	THC	—	205.4	205.4	—	196.2	196.2	—	186.4	186.4	—	176.1	176.1	—	165.4	165.4
			SHC	—	76.5	98.1	—	73.6	93.4	—	70.6	91.5	—	67.3	88.9	—	64.0	86.0
5,250 cfm	EA (wb)	58	THC	158.6	158.6	179.2	152.6	152.6	172.5	146.2	146.2	165.3	139.4	139.4	157.6	132.3	132.3	149.5
			SHC	137.9	158.6	179.2	132.7	152.6	172.5	127.1	146.2	165.3	121.3	139.4	157.6	115.0	132.3	149.5
		62	THC	161.6	161.6	179.9	154.3	154.3	175.2	147.1	147.1	169.7	139.9	139.9	162.7	132.4	132.4	155.4
			SHC	128.3	154.1	179.9	124.4	149.8	175.2	120.0	144.8	169.7	114.8	138.7	162.7	109.4	132.4	155.4
		67	THC	176.9	176.9	176.9	168.7	168.7	168.7	160.1	160.1	160.1	151.0	151.0	151.0	142.8	142.8	142.8
			SHC	102.4	128.5	154.6	99.3	125.5	151.6	96.0	122.2	148.4	92.6	118.8	145.1	90.4	116.2	141.9
		72	THC	194.9	194.9	194.9	185.9	185.9	185.9	176.4	176.4	176.4	166.4	166.4	166.4	156.0	156.0	156.0
			SHC	75.8	101.6	127.4	72.6	98.5	124.5	69.3	95.3	121.4	65.9	92.0	118.2	62.3	88.5	114.7
		76	THC	—	210.4	210.4	—	200.7	200.7	—	190.5	190.5	—	179.8	179.8	—	168.7	168.7
			SHC	—	79.6	103.5	—	76.6	101.1	—	73.4	98.5	—	70.1	95.5	—	66.7	92.4
6,000 cfm	EA (wb)	58	THC	165.3	165.3	186.8	158.9	158.9	179.6	152.1	152.1	171.9	144.9	144.9	163.7	137.3	137.3	155.2
			SHC	143.8	165.3	186.8	138.2	158.9	179.6	132.3	152.1	171.9	126.1	144.9	163.7	119.5	137.3	155.2
		62	THC	166.8	166.8	189.1	160.5	160.5	182.3	152.8	152.8	176.5	145.1	145.1	170.2	137.5	137.5	161.3
			SHC	134.4	161.7	189.1	129.5	155.9	182.3	124.9	150.7	176.5	119.9	145.1	170.2	113.7	137.5	161.3
		67	THC	180.5	180.5	180.5	172.1	172.1	172.1	165.8	165.8	165.8	156.2	156.2	156.2	144.0	144.0	153.9
			SHC	108.2	137.7	167.2	105.1	134.7	164.2	99.4	126.8	154.2	96.5	124.2	151.9	94.9	124.4	153.9
		72	THC	198.6	198.6	198.6	189.3	189.3	189.3	179.4	179.4	179.4	169.1	169.1	169.1	158.4	158.4	158.4
			SHC	77.9	107.2	136.5	74.7	104.1	133.5	71.3	100.8	130.3	67.9	97.4	126.9	64.3	93.9	123.4
		76	THC	—	214.1	214.1	—	204.2	204.2	—	193.7	193.7	—	182.6	182.6	—	171.0	171.0
			SHC	—	82.2	110.2	—	79.1	107.5	—	75.9	104.7	—	72.6	101.6	—	69.1	98.2
6,750 cfm	EA (wb)	58	THC	171.0	171.0	193.2	164.3	164.3	185.6	157.1	157.1	177.5	149.5	149.5	168.9	141.6	141.6	160.0
			SHC	148.8	171.0	193.2	142.9	164.3	185.6	136.7	157.1	177.5	130.1	149.5	168.9	123.2	141.6	160.0
		62	THC	171.3	171.3	200.0	164.6	164.6	192.1	157.3	157.3	184.5	149.7	149.7	175.6	141.7	141.7	166.2
			SHC	141.2	170.6	200.0	135.6	163.8	192.1	130.1	157.3	184.5	123.8	149.7	175.6	117.2	141.7	166.2
		67	THC	185.0	185.0	185.0	176.2	176.2	176.2	170.3	170.3	170.3	156.0	156.0	169.5	145.9	145.9	165.4
			SHC	114.3	146.1	177.9	110.4	142.1	173.9	103.6	132.6	161.5	104.0	136.7	169.5	100.2	132.8	165.4
		72	THC	201.5	201.5	201.5	191.9	191.9	191.9	181.8	181.8	181.8	171.3	171.3	171.3	160.3	160.3	160.3
			SHC	79.8	112.5	145.2	76.6	109.3	142.1	73.2	106.0	138.9	69.8	102.6	135.5	66.2	99.1	131.9
		76	THC	—	217.2	217.2	—	207.0	207.0	—	196.2	196.2	—	184.7	184.7	—	172.8	172.8
			SHC	—	84.6	116.3	—	81.5	113.5	—	78.2	110.5	—	74.8	107.2	—	71.2	103.7
7,500 cfm	EA (wb)	58	THC	175.9	175.9	198.7	168.8	168.8	190.7	161.3	161.3	182.2	153.5	153.5	173.3	145.2	145.2	164.0
			SHC	153.1	175.9	198.7	146.9	168.8	190.7	140.4	161.3	182.2	133.6	153.5	173.3	126.4	145.2	164.0
		62	THC	176.0	176.0	206.4	169.0	169.0	198.1	161.5	161.5	189.3	153.6	153.6	180.1	145.4	145.4	170.4
			SHC	145.6	176.0	206.4	139.8	169.0	198.1	133.6	161.5	189.3	127.1	153.6	180.1	120.3	145.4	170.4
		67	THC	189.7	189.7	189.7	180.5	180.5	180.5	167.6	167.6	184.6	157.7	157.7	180.5	147.7	147.7	175.5
			SHC	117.5	150.5	183.6	113.4	146.5	179.6	112.8	148.7	184.6	109.1	144.8	180.5	105.1	140.3	175.5
		72	THC	203.9	203.9	203.9	194.2	194.2	194.2	183.9	183.9	183.9	173.1	173.1	173.1	161.9	161.9	161.9
			SHC	81.6	117.6	153.6	78.3	114.4	150.5	75.0	111.1	147.2	71.6	107.7	143.7	68.0	104.1	140.2
		76	THC	—	219.7	219.7	—	209.2	209.2	—	198.2	198.2	—	186.5	186.5	—	174.5	174.5
			SHC	—	86.7	121.9	—	83.5	119.0	—	80.2	115.9	—	76.8	112.5	—	73.1	108.9

LEGEND

db	—	dry bulb
EA	—	Entering Air (°F)
SHC	—	Sensible Heat Capacity (1000 Btuh) gross
THC	—	Total Capacity (1000 Btuh) gross
wb	—	wet bulb

38AUD25/40RUA25 Combination Ratings — 50 Hz — SI

38AUD25-40RUA25				AMBIENT TEMPERATURE (°C)														
				29			35			41			46			52		
				EA (db)			EA (db)			EA (db)			EA (db)			EA (db)		
				24	27	29	24	27	29	24	27	29	24	27	29	24	27	29
2832 L/S	EA (wb)	14	THC	57.5	57.5	65.0	55.4	55.4	62.7	53.2	53.2	60.1	50.7	50.7	57.2	47.9	47.9	54.1
			SHC	50.1	57.5	65.0	48.2	55.4	62.7	46.2	53.2	60.1	44.1	50.7	57.2	41.6	47.9	54.1
		17	THC	59.3	59.3	63.6	56.6	56.6	62.2	53.9	53.9	60.8	51.0	51.0	58.7	48.2	48.2	55.3
			SHC	45.8	54.7	63.6	44.6	53.4	62.2	43.3	52.1	60.8	41.6	50.2	58.7	39.2	47.3	55.3
		19	THC	64.7	64.7	64.7	61.8	61.8	61.8	58.7	58.7	58.7	55.4	55.4	55.4	51.7	51.7	51.7
			SHC	36.6	45.4	54.3	35.5	44.3	53.2	34.2	43.1	52.0	33.0	41.9	50.7	31.6	40.4	49.3
		22	THC	70.9	70.9	70.9	67.9	67.9	67.9	64.3	64.3	64.3	60.7	60.7	60.7	56.6	56.6	56.6
			SHC	27.4	36.0	44.7	26.3	35.0	43.7	25.0	33.7	42.5	23.7	32.5	41.3	22.3	31.1	39.9
		24	THC	—	76.4	76.4	—	73.0	73.0	—	69.1	69.1	—	65.2	65.2	—	60.8	60.8
			SHC	—	28.4	35.9	—	27.3	35.3	—	26.1	34.4	—	24.9	33.4	—	23.5	32.1
3304 L/S	EA (wb)	14	THC	60.2	60.2	68.1	58.0	58.0	65.5	55.6	55.6	62.8	52.9	52.9	59.8	49.9	49.9	56.4
			SHC	52.4	60.2	68.1	50.5	58.0	65.5	48.4	55.6	62.8	46.0	52.9	59.8	43.5	49.9	56.4
		17	THC	60.8	60.8	69.3	58.3	58.3	67.5	55.9	55.9	64.2	53.0	53.0	61.9	50.0	50.0	58.6
			SHC	49.2	59.3	69.3	47.7	57.6	67.5	45.5	54.8	64.2	43.7	52.8	61.9	41.4	50.0	58.6
		19	THC	66.3	66.3	66.3	63.3	63.3	63.3	60.0	60.0	60.0	56.5	56.5	56.5	52.7	52.7	54.2
			SHC	38.8	49.0	59.2	37.7	47.9	58.1	36.5	46.7	56.9	35.2	45.4	55.6	33.8	44.0	54.2
		22	THC	72.5	72.5	72.5	69.2	69.2	69.2	65.6	65.6	65.6	61.8	61.8	61.8	57.6	57.6	57.6
			SHC	28.1	38.2	48.2	26.9	37.0	47.1	25.7	35.8	46.0	24.4	34.6	44.7	23.0	33.2	43.3
		24	THC	—	77.9	77.9	—	74.3	74.3	—	70.4	70.4	—	66.4	66.4	—	61.8	61.8
			SHC	—	29.3	38.7	—	28.2	37.8	—	27.0	36.8	—	25.8	35.6	—	24.4	34.3
3776 L/S	EA (wb)	14	THC	62.5	62.5	70.6	60.1	60.1	67.9	57.5	57.5	65.0	54.8	54.8	61.9	51.6	51.6	58.3
			SHC	54.4	62.5	70.6	52.3	60.1	67.9	50.1	57.5	65.0	47.7	54.8	61.9	44.9	51.6	58.3
		17	THC	62.7	62.7	73.0	60.4	60.4	69.6	57.6	57.6	67.5	54.7	54.7	64.2	51.6	51.6	60.5
			SHC	51.6	62.3	73.0	49.3	59.4	69.6	47.6	57.6	67.5	45.3	54.7	64.2	42.7	51.6	60.5
		19	THC	67.4	67.4	67.4	64.3	64.3	64.3	61.0	61.0	61.6	57.4	57.4	60.3	53.4	53.4	58.9
			SHC	41.0	52.5	63.9	39.9	51.3	62.8	38.6	50.1	61.6	37.4	48.9	60.3	36.0	47.4	58.9
		22	THC	73.7	73.7	73.7	70.4	70.4	70.4	66.6	66.6	66.6	62.7	62.7	62.7	58.4	58.4	58.4
			SHC	28.8	40.2	51.5	27.6	39.0	50.5	26.3	37.8	49.2	25.1	36.5	48.0	23.7	35.1	46.6
		24	THC	—	79.1	79.1	—	75.4	75.4	—	71.6	71.6	—	67.3	67.3	—	62.6	62.6
			SHC	—	30.1	41.1	—	29.0	40.0	—	27.8	38.9	—	26.5	37.7	—	25.1	36.4
4248 L/S	EA (wb)	14	THC	64.4	64.4	72.7	62.0	62.0	70.0	59.3	59.3	67.0	56.2	56.2	63.5	53.0	53.0	59.8
			SHC	56.0	64.4	72.7	54.0	62.0	70.0	51.6	59.3	67.0	48.9	56.2	63.5	46.1	53.0	59.8
		17	THC	64.7	64.7	74.8	62.0	62.0	72.7	59.2	59.2	69.5	56.2	56.2	65.9	53.0	53.0	62.2
			SHC	52.9	63.9	74.8	51.3	62.0	72.7	49.0	59.2	69.5	46.5	56.2	65.9	43.9	53.0	62.2
		19	THC	68.4	68.4	68.6	65.2	65.2	67.5	61.8	61.8	66.3	58.0	58.0	64.8	54.0	54.0	63.2
			SHC	43.1	55.9	68.6	42.0	54.7	67.5	40.8	53.5	66.3	39.4	52.1	64.8	38.0	50.6	63.2
		22	THC	74.7	74.7	74.7	71.2	71.2	71.2	67.5	67.5	67.5	63.3	63.3	63.3	58.9	58.9	58.9
			SHC	29.3	42.0	54.7	28.2	40.9	53.6	27.0	39.7	52.4	25.6	38.4	51.1	24.3	37.0	49.7
		24	THC	—	80.2	80.2	—	76.5	76.5	—	72.4	72.4	—	67.8	67.8	—	63.2	63.2
			SHC	—	30.8	43.1	—	29.7	42.1	—	28.5	40.9	—	27.1	39.6	—	25.7	38.3
4719 L/S	EA (wb)	14	THC	66.1	66.1	74.7	63.6	63.6	71.8	60.7	60.7	68.6	57.6	57.6	65.1	54.1	54.1	61.2
			SHC	57.6	66.1	74.7	55.3	63.6	71.8	52.8	60.7	68.6	50.1	57.6	65.1	47.1	54.1	61.2
		17	THC	66.1	66.1	77.5	63.6	63.6	74.6	60.7	60.7	71.1	57.6	57.6	67.6	54.2	54.2	63.5
			SHC	54.7	66.1	77.5	52.6	63.6	74.6	50.2	60.7	71.1	47.7	57.6	67.6	44.8	54.2	63.5
		19	THC	69.2	69.2	73.2	66.0	66.0	72.0	62.3	62.3	70.5	58.5	58.5	69.0	54.6	54.6	66.9
			SHC	45.2	59.1	73.2	44.0	58.0	72.0	42.7	56.6	70.5	41.4	55.2	69.0	39.7	53.3	66.9
		22	THC	75.5	75.5	75.5	72.0	72.0	72.0	68.0	68.0	68.0	63.8	63.8	63.8	59.4	59.4	59.4
			SHC	29.9	43.8	57.8	28.8	42.7	56.7	27.5	41.5	55.4	26.2	40.2	54.2	24.8	38.8	52.8
		24	THC	—	81.1	81.1	—	77.0	77.0	—	73.0	73.0	—	68.5	68.5	—	63.7	63.7
			SHC	—	31.4	45.0	—	30.2	43.9	—	29.0	42.8	—	27.7	41.5	—	26.3	40.1

LEGEND

db	—	dry bulb
EA	—	Entering Air (°C)
SHC	—	Sensible Heat Capacity (kW) gross
THC	—	Total Capacity (kW) gross
wb	—	wet bulb

38AUD25/40RUA25 Combination Ratings — 50 Hz — English

38AUDT25-40RUA25				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
6,000 cfm	EA (wb)	58	THC	196.3	196.3	221.8	189.2	189.2	213.8	181.4	181.4	205.0	172.9	172.9	195.3	163.4	163.4	184.6
			SHC	170.8	196.3	221.8	164.6	189.2	213.8	157.8	181.4	205.0	150.4	172.9	195.3	142.1	163.4	184.6
		62	THC	202.3	202.3	216.9	193.1	193.1	212.4	183.8	183.8	207.6	174.0	174.0	200.4	164.5	164.5	188.8
			SHC	156.4	186.6	216.9	152.1	182.3	212.4	147.7	177.7	207.6	141.9	171.2	200.4	133.8	161.3	188.8
		67	THC	220.9	220.9	220.9	210.9	210.9	210.9	200.3	200.3	200.3	189.0	189.0	189.0	176.4	176.4	176.4
			SHC	124.9	155.0	185.2	121.0	151.2	181.4	116.8	147.1	177.3	112.6	142.8	173.1	107.8	138.0	168.3
		72	THC	241.9	241.9	241.9	231.6	231.6	231.6	219.4	219.4	219.4	207.1	207.1	207.1	193.2	193.2	193.2
			SHC	93.4	122.9	152.5	89.6	119.3	149.0	85.3	115.1	144.9	80.9	110.9	140.9	76.1	106.2	136.3
		76	THC	—	260.8	260.8	—	249.2	249.2	—	235.9	235.9	—	222.4	222.4	—	207.4	207.4
			SHC	—	97.0	122.5	—	93.3	120.5	—	89.2	117.3	—	85.0	113.8	—	80.3	109.5
7,000 cfm	EA (wb)	58	THC	205.5	205.5	232.2	197.8	197.8	223.5	189.7	189.7	214.3	180.5	180.5	204.0	170.4	170.4	192.5
			SHC	178.8	205.5	232.2	172.2	197.8	223.5	165.1	189.7	214.3	157.1	180.5	204.0	148.3	170.4	192.5
		62	THC	207.6	207.6	236.4	198.8	198.8	230.3	190.7	190.7	219.0	181.0	181.0	211.3	170.5	170.5	200.0
			SHC	167.9	202.2	236.4	162.9	196.6	230.3	155.2	187.1	219.0	149.2	180.2	211.3	141.1	170.5	200.0
		67	THC	226.1	226.1	226.1	216.1	216.1	216.1	204.6	204.6	204.6	192.9	192.9	192.9	179.7	179.7	184.9
			SHC	132.5	167.3	202.0	128.8	163.6	198.3	124.5	159.3	194.1	120.1	154.9	189.7	115.4	150.2	184.9
		72	THC	247.5	247.5	247.5	236.0	236.0	236.0	223.8	223.8	223.8	211.0	211.0	211.0	196.6	196.6	196.6
			SHC	95.9	130.2	164.5	91.9	126.3	160.7	87.7	122.2	156.8	83.4	117.9	152.5	78.5	113.2	147.8
		76	THC	—	265.9	265.9	—	253.6	253.6	—	240.3	240.3	—	226.4	226.4	—	210.9	210.9
			SHC	—	100.1	132.2	—	96.3	129.1	—	92.2	125.4	—	87.9	121.6	—	83.2	117.2
8,000 cfm	EA (wb)	58	THC	213.2	213.2	240.9	205.1	205.1	231.7	196.3	196.3	221.7	186.9	186.9	211.1	176.1	176.1	198.9
			SHC	185.5	213.2	240.9	178.5	205.1	231.7	170.8	196.3	221.7	162.6	186.9	211.1	153.2	176.1	198.9
		62	THC	214.1	214.1	249.0	206.2	206.2	237.4	196.4	196.4	230.3	186.7	186.7	218.9	176.2	176.2	206.6
			SHC	176.0	212.5	249.0	168.2	202.8	237.4	162.5	196.4	230.3	154.5	186.7	218.9	145.8	176.2	206.6
		67	THC	230.1	230.1	230.1	219.5	219.5	219.5	208.0	208.0	210.2	195.8	195.8	205.9	182.2	182.2	200.9
			SHC	139.9	179.0	218.2	136.0	175.2	214.4	131.8	171.0	210.2	127.5	166.7	205.9	122.7	161.8	200.9
		72	THC	251.5	251.5	251.5	240.3	240.3	240.3	227.3	227.3	227.3	214.0	214.0	214.0	199.1	199.1	199.1
			SHC	98.1	137.0	175.8	94.3	133.2	172.2	89.9	129.0	168.0	85.6	124.7	163.8	80.7	119.9	159.0
		76	THC	—	270.0	270.0	—	257.4	257.4	—	244.2	244.2	—	229.5	229.5	—	213.5	213.5
			SHC	—	102.8	140.1	—	98.9	136.6	—	94.9	132.9	—	90.5	128.8	—	85.7	124.2
9,000 cfm	EA (wb)	58	THC	219.7	219.7	248.2	211.5	211.5	238.9	202.2	202.2	228.5	191.7	191.7	216.6	180.8	180.8	204.2
			SHC	191.2	219.7	248.2	184.1	211.5	238.9	176.0	202.2	228.5	166.9	191.7	216.6	157.3	180.8	204.2
		62	THC	220.8	220.8	255.2	211.4	211.4	247.9	202.1	202.1	237.0	191.9	191.9	225.0	180.9	180.9	212.1
			SHC	180.6	217.9	255.2	174.9	211.4	247.9	167.2	202.1	237.0	158.8	191.9	225.0	149.7	180.9	212.1
		67	THC	233.4	233.4	234.1	222.5	222.5	230.2	211.0	211.0	226.2	198.0	198.0	221.2	184.3	184.3	215.6
			SHC	147.1	190.6	234.1	143.2	186.7	230.2	139.2	182.7	226.2	134.6	177.9	221.2	129.5	172.5	215.6
		72	THC	254.9	254.9	254.9	242.9	242.9	242.9	230.4	230.4	230.4	215.9	215.9	215.9	201.1	201.1	201.1
			SHC	100.1	143.4	186.7	96.1	139.5	182.9	92.1	135.5	178.9	87.4	130.9	174.4	82.8	126.2	169.7
		76	THC	—	273.7	273.7	—	261.0	261.0	—	247.0	247.0	—	231.4	231.4	—	215.6	215.6
			SHC	—	105.1	147.1	—	101.3	143.6	—	97.1	139.7	—	92.5	135.2	—	87.8	130.7
10,000 cfm	EA (wb)	58	THC	225.7	225.7	255.0	216.9	216.9	245.0	207.1	207.1	234.0	196.5	196.5	222.0	184.7	184.7	208.7
			SHC	196.4	225.7	255.0	188.7	216.9	245.0	180.3	207.1	234.0	171.0	196.5	222.0	160.8	184.7	208.7
		62	THC	225.5	225.5	264.5	216.9	216.9	254.4	207.0	207.0	242.7	196.6	196.6	230.5	184.9	184.9	216.7
			SHC	186.6	225.5	264.5	179.5	216.9	254.4	171.3	207.0	242.7	162.7	196.6	230.5	153.0	184.9	216.7
		67	THC	236.1	236.1	249.6	225.2	225.2	245.7	212.6	212.6	240.5	199.7	199.7	235.3	186.2	186.2	228.3
			SHC	154.1	201.8	249.6	150.3	198.0	245.7	145.7	193.1	240.5	141.1	188.2	235.3	135.6	182.0	228.3
		72	THC	257.6	257.6	257.6	245.8	245.8	245.8	232.1	232.1	232.1	217.7	217.7	217.7	202.7	202.7	202.7
			SHC	101.9	149.5	197.2	98.1	145.8	193.5	93.8	141.5	189.2	89.3	137.0	184.8	84.7	132.4	180.1
		76	THC	—	276.8	276.8	—	262.9	262.9	—	249.1	249.1	—	233.7	233.7	—	217.2	217.2
			SHC	—	107.1	153.6	—	103.0	149.8	—	99.0	145.9	—	94.5	141.5	—	89.6	136.7

LEGEND

db	—	dry bulb
EA	—	Entering Air (°F)
SHC	—	Sensible Heat Capacity (1000 Btuh) gross
THC	—	Total Capacity (1000 Btuh) gross
wb	—	wet bulb

38AUD28/40RUA28 Combination Ratings — 50 Hz — SI

38AUD28–40RUA28				AMBIENT TEMPERATURE (°C)														
				29			35			41			46			52		
				EA (db)			EA (db)			EA (db)			EA (db)			EA (db)		
				24	27	29	24	27	29	24	27	29	24	27	29	24	27	29
3540 L/S	EA (wb)	14	THC	67.2	67.2	76.0	64.7	64.7	73.2	62.0	62.0	70.1	58.9	58.9	66.6	55.7	55.7	63.0
			SHC	58.3	67.2	76.0	56.2	64.7	73.2	53.8	62.0	70.1	51.1	58.9	66.6	48.4	55.7	63.0
		17	THC	70.2	70.2	72.4	66.2	66.2	72.1	62.8	62.8	70.5	59.6	59.6	68.0	56.0	56.0	64.2
			SHC	52.5	62.5	72.4	51.6	61.8	72.1	50.1	60.3	70.5	48.1	58.1	68.0	45.3	54.7	64.2
		19	THC	75.6	75.6	75.6	72.2	72.2	72.2	68.5	68.5	68.5	64.4	64.4	64.4	60.2	60.2	60.2
			SHC	42.4	52.7	63.0	41.1	51.4	61.7	39.6	50.0	60.3	38.1	48.5	58.8	36.5	46.9	57.2
		22	THC	82.6	82.6	82.6	78.8	78.8	78.8	74.7	74.7	74.7	70.3	70.3	70.3	65.6	65.6	65.6
			SHC	31.7	41.8	51.8	30.3	40.4	50.6	28.8	39.0	49.3	27.3	37.5	47.8	25.7	36.0	46.2
		24	THC	—	88.5	88.5	—	84.6	84.6	—	80.1	80.1	—	75.5	75.5	—	70.3	70.3
			SHC	—	32.8	41.4	—	31.6	40.9	—	30.2	39.9	—	28.9	38.8	—	27.3	37.4
4130 L/S	EA (wb)	14	THC	70.3	70.3	79.5	67.6	67.6	76.5	64.6	64.6	73.1	61.5	61.5	69.6	58.0	58.0	65.6
			SHC	61.0	70.3	79.5	58.7	67.6	76.5	56.1	64.6	73.1	53.4	61.5	69.6	50.4	58.0	65.6
		17	THC	71.1	71.1	79.9	68.0	68.0	78.1	64.7	64.7	76.1	61.9	61.9	70.4	58.2	58.2	67.2
			SHC	56.7	68.3	79.9	55.2	66.6	78.1	53.4	64.7	76.1	49.8	60.1	70.4	47.4	57.3	67.2
		19	THC	77.3	77.3	77.3	73.7	73.7	73.7	69.9	69.9	69.9	65.7	65.7	65.7	61.3	61.3	62.6
			SHC	44.9	56.8	68.6	43.6	55.4	67.3	42.1	54.0	65.9	40.6	52.4	64.3	38.9	50.8	62.6
		22	THC	84.3	84.3	84.3	80.3	80.3	80.3	76.1	76.1	76.1	71.5	71.5	71.5	66.7	66.7	66.7
			SHC	32.5	44.1	55.8	31.1	42.8	54.5	29.7	41.4	53.1	28.1	39.9	51.6	26.5	38.2	50.0
		24	THC	—	90.2	90.2	—	86.0	86.0	—	81.6	81.6	—	76.7	76.7	—	71.4	71.4
			SHC	—	33.9	44.9	—	32.7	43.9	—	31.3	42.7	—	29.8	41.4	—	28.2	39.9
4719 L/S	EA (wb)	14	THC	72.7	72.7	82.2	70.0	70.0	79.2	66.8	66.8	75.6	63.5	63.5	71.8	59.8	59.8	67.7
			SHC	63.2	72.7	82.2	60.8	70.0	79.2	58.1	66.8	75.6	55.2	63.5	71.8	52.0	59.8	67.7
		17	THC	73.8	73.8	83.1	70.5	70.5	80.3	66.9	66.9	78.6	63.8	63.8	73.4	59.8	59.8	70.3
			SHC	58.9	71.0	83.1	56.8	68.5	80.3	55.3	66.9	78.6	51.8	62.7	73.4	49.4	59.8	70.3
		19	THC	78.7	78.7	78.7	75.0	75.0	75.0	71.1	71.1	71.1	66.6	66.6	69.5	62.1	62.1	67.7
			SHC	47.3	60.6	73.9	46.0	59.3	72.6	44.5	57.8	71.1	42.9	56.2	69.5	41.3	54.5	67.7
		22	THC	85.6	85.6	85.6	81.5	81.5	81.5	77.2	77.2	77.2	72.5	72.5	72.5	67.6	67.6	67.6
			SHC	33.2	46.3	59.5	31.8	45.0	58.1	30.4	43.6	56.7	28.8	42.0	55.2	27.2	40.4	53.6
		24	THC	—	91.8	91.8	—	87.5	87.5	—	82.7	82.7	—	77.5	77.5	—	72.2	72.2
			SHC	—	34.9	47.6	—	33.6	46.5	—	32.2	45.2	—	30.6	43.7	—	29.0	42.2
5309 L/S	EA (wb)	14	THC	74.8	74.8	84.6	71.9	71.9	81.3	68.7	68.7	77.7	65.2	65.2	73.8	61.3	61.3	69.3
			SHC	65.0	74.8	84.6	62.5	71.9	81.3	59.7	68.7	77.7	56.7	65.2	73.8	53.3	61.3	69.3
		17	THC	75.3	75.3	85.9	72.0	72.0	84.6	69.0	69.0	79.2	65.2	65.2	76.6	61.4	61.4	72.1
			SHC	60.8	73.3	85.9	59.5	72.0	84.6	55.9	67.6	79.2	53.9	65.2	76.6	50.7	61.4	72.1
		19	THC	79.7	79.7	79.7	75.9	75.9	77.6	71.8	71.8	76.1	67.5	67.5	74.5	62.8	62.8	72.4
			SHC	49.6	64.4	79.0	48.3	63.0	77.6	46.8	61.4	76.1	45.3	59.9	74.5	43.4	57.9	72.4
		22	THC	86.7	86.7	86.7	82.5	82.5	82.5	78.2	78.2	78.2	73.4	73.4	73.4	68.2	68.2	68.2
			SHC	33.8	48.4	63.0	32.5	47.1	61.6	31.1	45.7	60.3	29.5	44.1	58.7	27.9	42.5	57.1
		24	THC	—	92.7	92.7	—	88.3	88.3	—	83.4	83.4	—	78.4	78.4	—	72.9	72.9
			SHC	—	35.7	49.9	—	34.4	48.7	—	32.9	47.3	—	31.4	45.9	—	29.8	44.3
5899 L/S	EA (wb)	14	THC	76.7	76.7	86.7	73.7	73.7	83.3	70.3	70.3	79.5	66.6	66.6	75.4	62.6	62.6	70.8
			SHC	66.6	76.7	86.7	64.0	73.7	83.3	61.1	70.3	79.5	57.9	66.6	75.4	54.4	62.6	70.8
		17	THC	76.7	76.7	90.1	73.9	73.9	86.1	70.3	70.3	82.5	66.7	66.7	78.3	62.6	62.6	73.5
			SHC	63.4	76.7	90.1	60.6	73.4	86.1	58.0	70.3	82.5	55.1	66.7	78.3	51.7	62.6	73.5
		19	THC	80.6	80.6	84.0	76.7	76.7	82.5	72.5	72.5	80.9	68.2	68.2	79.0	63.4	63.4	76.1
			SHC	51.9	67.9	84.0	50.5	66.5	82.5	49.0	64.9	80.9	47.3	63.2	79.0	45.3	60.7	76.1
		22	THC	87.5	87.5	87.5	83.3	83.3	83.3	78.7	78.7	78.7	73.9	73.9	73.9	68.8	68.8	68.8
			SHC	34.4	50.4	66.4	33.1	49.0	65.0	31.6	47.6	63.5	30.1	46.0	62.0	28.5	44.4	60.4
		24	THC	—	93.6	93.6	—	89.0	89.0	—	84.2	84.2	—	79.0	79.0	—	73.5	73.5
			SHC	—	36.3	52.0	—	35.0	50.8	—	33.6	49.4	—	32.0	47.9	—	30.4	46.2

LEGEND

db	—	dry bulb
EA	—	Entering Air (°C)
SHC	—	Sensible Heat Capacity (kW) gross
THC	—	Total Capacity (kW) gross
wb	—	wet bulb

38AUD28/40RUA28 Combination Ratings — 50 Hz — English

38AUDT28-40RUA28				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
7,500 cfm	EA (wb)	58	THC	229.2	229.2	259.4	220.7	220.7	249.8	211.4	211.4	239.2	201.0	201.0	227.4	190.0	190.0	215.0
			SHC	199.0	229.2	259.4	191.7	220.7	249.8	183.6	211.4	239.2	174.5	201.0	227.4	165.0	190.0	215.0
		62	THC	239.5	239.5	247.2	225.8	225.8	246.1	214.4	214.4	240.5	203.2	203.2	232.1	191.0	191.0	218.9
			SHC	179.1	213.1	247.2	175.9	211.0	246.1	170.8	205.6	240.5	164.1	198.1	232.1	154.6	186.7	218.9
		67	THC	258.0	258.0	258.0	246.3	246.3	246.3	233.6	233.6	233.6	219.9	219.9	219.9	205.3	205.3	205.3
			SHC	144.7	179.9	215.1	140.1	175.4	210.6	135.2	170.5	205.9	130.0	165.4	200.7	124.5	159.9	195.2
		72	THC	281.7	281.7	281.7	268.8	268.8	268.8	254.8	254.8	254.8	239.9	239.9	239.9	224.0	224.0	224.0
			SHC	108.1	142.5	176.9	103.4	138.0	172.6	98.4	133.2	168.1	93.2	128.1	163.1	87.7	122.7	157.8
		76	THC	—	301.9	301.9	—	288.6	288.6	—	273.2	273.2	—	257.7	257.7	—	239.9	239.9
			SHC	—	111.9	141.3	—	107.9	139.6	—	103.2	136.2	—	98.5	132.3	—	93.0	127.5
8,750 cfm	EA (wb)	58	THC	239.8	239.8	271.3	230.6	230.6	261.0	220.4	220.4	249.4	209.8	209.8	237.4	197.9	197.9	223.9
			SHC	208.3	239.8	271.3	200.3	230.6	261.0	191.4	220.4	249.4	182.3	209.8	237.4	171.9	197.9	223.9
		62	THC	242.5	242.5	272.8	231.9	231.9	266.6	220.9	220.9	259.5	211.2	211.2	240.1	198.7	198.7	229.3
			SHC	193.5	233.1	272.8	188.3	227.4	266.6	182.3	220.9	259.5	170.0	205.0	240.1	161.7	195.5	229.3
		67	THC	263.9	263.9	263.9	251.6	251.6	251.6	238.5	238.5	238.5	224.2	224.2	224.2	209.1	209.1	213.7
			SHC	153.3	193.7	234.1	148.7	189.1	229.5	143.8	184.3	224.7	138.5	178.9	219.3	132.9	173.3	213.7
		72	THC	287.5	287.5	287.5	274.0	274.0	274.0	259.7	259.7	259.7	244.1	244.1	244.1	227.6	227.6	227.6
			SHC	110.8	150.6	190.4	106.1	146.0	185.9	101.2	141.2	181.2	95.8	136.0	176.1	90.4	130.5	170.7
		76	THC	—	307.8	307.8	—	293.6	293.6	—	278.6	278.6	—	261.7	261.7	—	243.5	243.5
			SHC	—	115.8	153.2	—	111.5	149.7	—	106.9	145.8	—	101.8	141.2	—	96.3	136.1
10,000 cfm	EA (wb)	58	THC	248.1	248.1	280.6	238.8	238.8	270.1	228.0	228.0	257.9	216.6	216.6	245.0	204.1	204.1	230.9
			SHC	215.5	248.1	280.6	207.5	238.8	270.1	198.1	228.0	257.9	188.2	216.6	245.0	177.3	204.1	230.9
		62	THC	251.7	251.7	283.4	240.6	240.6	273.9	228.4	228.4	268.3	217.8	217.8	250.6	204.2	204.2	239.9
			SHC	201.1	242.3	283.4	193.9	233.9	273.9	188.6	228.4	268.3	176.9	213.8	250.6	168.6	204.2	239.9
		67	THC	268.4	268.4	268.4	255.8	255.8	255.8	242.6	242.6	242.7	227.4	227.4	237.0	211.8	211.8	230.9
			SHC	161.5	206.8	252.1	156.9	202.3	247.7	152.0	197.3	242.7	146.5	191.8	237.0	140.8	185.9	230.9
		72	THC	292.0	292.0	292.0	278.2	278.2	278.2	263.4	263.4	263.4	247.4	247.4	247.4	230.6	230.6	230.6
			SHC	113.3	158.1	203.0	108.6	153.5	198.4	103.6	148.6	193.6	98.3	143.3	188.4	92.8	137.9	183.0
		76	THC	—	313.3	313.3	—	298.4	298.4	—	282.3	282.3	—	264.3	264.3	—	246.5	246.5
			SHC	—	119.2	162.4	—	114.8	158.5	—	109.9	154.1	—	104.5	149.1	—	99.1	143.9
11,250 cfm	EA (wb)	58	THC	255.3	255.3	288.8	245.3	245.3	277.4	234.3	234.3	265.0	222.5	222.5	251.7	209.2	209.2	236.6
			SHC	221.9	255.3	288.8	213.1	245.3	277.4	203.6	234.3	265.0	193.3	222.5	251.7	181.7	209.2	236.6
		62	THC	257.0	257.0	293.0	245.8	245.8	288.6	235.3	235.3	270.1	222.6	222.6	261.4	209.4	209.4	245.9
			SHC	207.4	250.2	293.0	202.9	245.8	288.6	190.9	230.5	270.1	183.8	222.6	261.4	172.9	209.4	245.9
		67	THC	272.1	272.1	272.1	259.1	259.1	264.9	245.0	245.0	259.6	230.4	230.4	254.1	214.3	214.3	247.0
			SHC	169.4	219.6	269.7	164.7	214.8	264.9	159.6	209.6	259.6	154.5	204.3	254.1	148.2	197.6	247.0
		72	THC	295.7	295.7	295.7	281.5	281.5	281.5	266.8	266.8	266.8	250.5	250.5	250.5	232.8	232.8	232.8
			SHC	115.5	165.2	214.9	110.8	160.6	210.3	106.0	155.8	205.6	100.7	150.5	200.3	95.1	144.9	194.7
		76	THC	—	316.4	316.4	—	301.3	301.3	—	284.7	284.7	—	267.5	267.5	—	248.9	248.9
			SHC	—	121.8	170.3	—	117.3	166.2	—	112.3	161.5	—	107.2	156.6	—	101.6	151.0
12,500 cfm	EA (wb)	58	THC	261.6	261.6	295.9	251.5	251.5	284.4	239.9	239.9	271.3	227.4	227.4	257.2	213.7	213.7	241.7
			SHC	227.4	261.6	295.9	218.5	251.5	284.4	208.5	239.9	271.3	197.6	227.4	257.2	185.7	213.7	241.7
		62	THC	261.8	261.8	307.4	252.1	252.1	293.7	239.8	239.8	281.5	227.5	227.5	267.2	213.7	213.7	250.9
			SHC	216.2	261.8	307.4	206.9	250.3	293.7	198.0	239.8	281.5	187.9	227.5	267.2	176.5	213.7	250.9
		67	THC	275.1	275.1	286.5	261.6	261.6	281.5	247.4	247.4	276.0	232.6	232.6	269.4	216.5	216.5	259.6
			SHC	177.0	231.8	286.5	172.2	226.9	281.5	167.2	221.6	276.0	161.5	215.5	269.4	154.5	207.0	259.6
		72	THC	298.7	298.7	298.7	284.2	284.2	284.2	268.7	268.7	268.7	252.2	252.2	252.2	234.6	234.6	234.6
			SHC	117.5	171.9	226.4	112.8	167.3	221.8	107.8	162.3	216.7	102.7	157.1	211.6	97.2	151.6	206.0
		76	THC	—	319.3	319.3	—	303.8	303.8	—	287.3	287.3	—	269.6	269.6	—	250.7	250.7
			SHC	—	124.0	177.5	—	119.4	173.2	—	114.5	168.5	—	109.2	163.3	—	103.6	157.5

LEGEND

db	—	dry bulb
EA	—	Entering Air (°F)
SHC	—	Sensible Heat Capacity (1000 Btuh) gross
THC	—	Total Capacity (1000 Btuh) gross
wb	—	wet bulb

38AUZ-07-08

UNIT SIZE	NUMBER OF STAGES	NOMINAL POWER SUPPLY	VOLTAGE RANGE		COMPRESSOR NO. 1		COMPRESSOR NO. 2		OFM		POWER SUPPLY		DISCONNECT SIZE	
		V-Ph-Hz	Min	Max	RLA	LRA	RLA	LRA	Qty	FLA (ea)	MCA	Fuse or HACR Breaker	FLA	LRA
07	2	400-3-50	360	440	8.4	66	—	—	2	0.7	12.0	20	11	70
08	2	400-3-50	360	440	12.6	100	—	—	2	0.7	18.0	25	16	104

38AUD-12-14

UNIT SIZE	NUMBER OF STAGES	NOMINAL POWER SUPPLY	VOLTAGE RANGE		COMPRESSOR No. 1		COMPRESSOR No. 2		OFM		POWER SUPPLY		DISCONNECT SIZE	
		V-Ph-Hz	Min	Max	RLA	LRA	RLA	LRA	Qty	FLA (ea)	MCA	Fuse or HACR Breaker	FLA	LRA
12	3	400-3-50	360	440	6.8	55	7.8	52	2	0.7	18.0	25	18	111
14	3	400-3-50	360	440	8.4	66	8.0	67	2	0.7	20.0	25	20	137

38AUD-16-28

UNIT SIZE	NUMBER OF STAGES	NOMINAL POWER SUPPLY	VOLTAGE RANGE		COMPRESSOR No. 1		COMPRESSOR No. 2		OFM		POWER SUPPLY		DISCONNECT SIZE	
		V-Ph-Hz	Min	Max	RLA	LRA	RLA	LRA	Qty	FLA (ea)	MCA	Fuse or HACR Breaker	FLA	LRA
16	3	400-3-50	360	440	12.0	94	12.2	100	3	0.7	29.4	40	30	200
25	3	400-3-50	360	440	14.8	130	14.7	130	4	0.7	36.0	50	37	268
28	3	400-3-50	360	440	17.0	140	19.0	125	4	0.7	43.6	60	45	273

LEGEND

HACR	— Heating, Air Conditioning and Refrigeration
FLA	— Full Load Amps
LRA	— Locked Rotor Amps
MCA	— Minimum Circuit Amps
OFM	— Outdoor Fan Motor
RLA	— Rated Load Amps

Operating Limits

Maximum outdoor temperature..... 51.6°C (125°F)

Minimum return-air temperature
(40RFA/40RUA) 12.8°C (55°F)

Maximum return-air temperature
(40RFA/40RUA) 35.0°C (95°F)

Range of acceptable saturation
suction temperature -6.6 to 10°C (20 to 50°F)

Maximum discharge temperature 135°C (275°F)

Minimum discharge superheat..... 15.5°C (60°F)

1. Select air handler at no less than 300 cfm/ton (nominal condensing unit capacity).
2. Total combined draw of the field-supplied liquid line solenoid valve and air handler fan contactor must not exceed 22 va. If the specified va must be exceeded, use a remote relay to control the load.

Minimum Outdoor-Air Operating Temperature

UNIT 38AU	MAXIMUM OUTDOOR TEMP (°C)	
	Std	With Low Ambient Control ^a
Z07	2	-29°C
Z08	2	
D12	2	
D14	2	
D16	2	
D25	2	
D28	2	

NOTE(S):

- a. Wind baffles (field-supplied and field-installed) are recommended for all units with Low Ambient control. Refer to Low Ambient Temperature Control Installation Instructions for additional information.

Refrigerant Piping

IMPORTANT: Do not bury refrigerant piping underground.

It is recommended that the refrigerant piping for all commercial split systems include a liquid line solenoid valve, a liquid line filter drier and a sight glass.

For refrigerant lines longer than 22.9 lineal meters (75 lineal feet), a liquid line solenoid valve installed at the indoor unit and a suction accumulator are required. Refer to the Refrigerant Specialties Part Numbers table.

Refrigerant Specialties Part Numbers

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

Commercial Air-Cooled Condensing Units HVAC Guide Specifications

Size Range: **21 to 88 kW (6 to 25 Tons)**

Carrier Model Numbers: **38AUZ, Single Circuit (07-08 Models) 38AUD, Dual Circuit (12-28 Models)**

Part 1 — GENERAL

1.01 SYSTEM DESCRIPTION

Outdoor-mounted, air-cooled condensing unit suitable for on-the-ground or rooftop installation. Unit shall consist of a hermetic scroll air-conditioning compressor(s) 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 be used in a refrigeration circuit matched with a packaged air-handling unit.

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 1995 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 condenser coils for hermetic scroll compressor units 38AUZ and 38AUD shall be leak tested at 1034 kPa (150 psig), and pressure tested at 4482 kPa (650 psig).
- F. Unit shall be manufactured in a facility registered to ISO 9001:2015 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 condensing unit. Contained within the unit enclosure shall be all factory wiring, piping, controls, compressor, holding charge, 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. Condenser 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. Compressors shall include overload protection.
- 4. Compressors shall be equipped with a crank-case heater.
- 5. Compressor shall be equipped with internal high pressure and high temperature protection.

E. Condenser Coils:

- 1. Standard Aluminum-fin Copper Tube Coils:
 - a. Standard evaporator and condenser coils shall have aluminum lanced plate fins mechanically bonded to seamless internally grooved copper tubes with all joints brazed.
 - b. Evaporator coils shall be leak tested to 1034 kPa (150 psig), pressure tested to 3103 kPa (450 psig), and qualified to UL 1995 burst test at 12,238 kPa (1,775 psig).
 - c. Condenser coils shall be leak tested to 1034 kPa (150 psig), pressure tested to 4482 kPa (650 psig), and qualified to UL 1995 burst test at 13,652 kPa (1,980 psig).
- 2. Optional copper-fin evaporator and condenser coils:
 - a. Shall be constructed of copper fins mechanically bonded to copper tubes and copper tube sheets.
 - b. Galvanized steel tube sheets shall not be acceptable.
 - c. A polymer strip shall prevent coil assembly from contacting the sheet metal coil pan to minimize potential for galvanic corrosion between coil and pan.
- 3. Optional e-coated aluminum-fin evaporator and condenser coils:
 - a. Shall have a flexible epoxy polymer coating uniformly applied to all coil surface areas without material bridging between fins.
 - b. Coating process shall ensure complete coil encapsulation of tubes, fins and headers.
 - c. Color shall be high gloss black with gloss per ASTM D523-89.
 - d. Uniform dry film thickness from 0.8 to 1.2 mil on all surface areas including fin edges.

- e. Superior hardness characteristics of 2H per ASTM D3363-92A and cross-hatch adhesion of 4B-5B per ASTM D3359-93.
 - f. Impact resistance shall be up to 18.1 Nm (160 in.-lb) (ASTM D2794-93).
 - g. Humidity and water immersion resistance shall be up to minimum 1,000 and 250 hours respectively (ASTM D2247-92 and ASTM D870-92).
 - h. Corrosion durability shall be confirmed through testing to be no less than 1,000 hours salt spray per ASTM B117-90.
4. Optional E-coated aluminum-fin, aluminum tube condenser coils:
- a. Shall have a flexible epoxy polymer coating uniformly applied to all coil external surface areas without material bridging between fins or louvers.
 - b. Coating process shall ensure complete coil encapsulation, including all exposed fin edges.
 - c. E-coat thickness of 0.8 to 1.2 mil with top coat having a uniform dry film thickness from 1.0 to 2.0 mil on all external coil surface areas, including fin edges, shall be provided.
 - d. Shall have superior hardness characteristics of 2H per ASTM D3363-00 and crosshatch adhesion of 4B-5B per ASTM D3359-02.
 - e. Shall have superior impact resistance with no cracking, chipping or peeling per NSF/ANSI 51-2002 Method 10.2.

F. Refrigeration Components:

Refrigeration circuit components shall include liquid line service valve, suction line service valve, a full charge of compressor oil, and a partial holding charge of refrigerant.

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™ 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

- d. Minimum safety devices which are equipped with automatic reset (after resetting first at thermostat), shall include:
 - 1) High discharge pressure cutout.
 - 2) Low pressure cutout.

H. Operating Characteristics:

1. The capacity of the condensing unit shall meet or exceed _____ Btuh at a suction temperature of _____ °C/F. The power consumption at full load shall not exceed _____ kW.
2. The combination of the condensing unit and the evaporator or fan coil unit shall have a total net cooling capacity of _____ Btuh or greater at conditions of _____ L/s (cfm) entering-air temperature at the evaporator at _____ °C/F wet bulb and _____ °C/F dry bulb, and air entering the condensing unit at _____ °C/F.
3. The system shall have an EER of _____ Btuh/Watt or greater at standard AHRI conditions.
4. Standard unit shall be capable to operate up to 52°C (125°F) and down to 4°C (40°F).

I. Electrical Requirements:

1. Nominal unit electrical characteristics shall be _____ v, 3-ph, _____ Hz. The unit shall be capable of satisfactory operation within voltage limits of _____ v to _____ v.
2. Unit electrical power shall be single-point connection.
3. Unit control circuit shall contain a 24-v transformer for unit control.

J. Special Features:

1. 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 -29°C (-20°F).
2. Unit-Mounted, Non-Fused Disconnect Switch:
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 lockout capability. Non-fused disconnect cannot be used when unit MOCP electrical rating exceeds 80 amps.
3. Thermostat Controls:
 - a. Programmable multi-stage thermostat shall have 7-day clock, holiday scheduling, large backlit display, remote sensor capability, and Title 24 compliance.

Guide specifications (cont)

- b. Commercial Electronic Thermostat shall have 7-day time clock, auto-changeover, multi-stage capability, and large LCD (liquid crystal display) temperature display.
- 4. Louvered Hail Guard Package:
Louvered hail guard package shall protect coils against damage from hail and other flying debris.

- 5. Condenser Coil Grille:
Grille shall add decorative appearance to unit and protect condenser coil from large objects and vandalism.