

Model #: 30XAB302FC-71R8L1  
Serial #: 4816Q95254



Turn to the experts

## Product Data

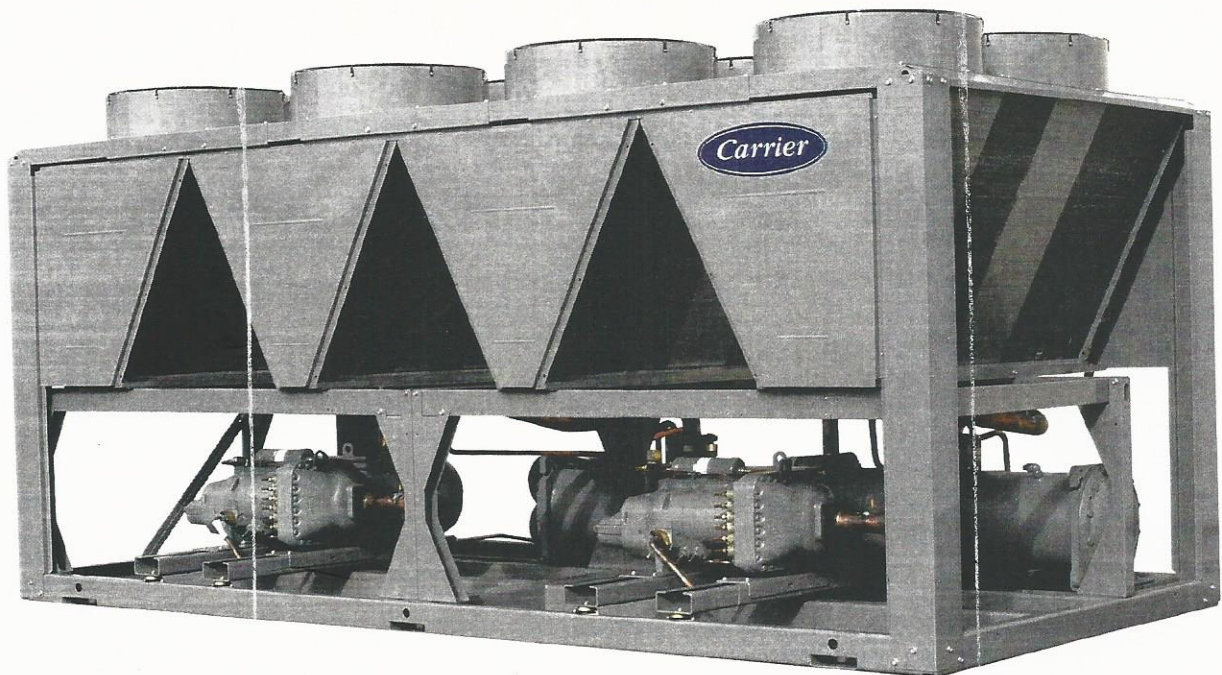
### AquaForce® Fixed Speed Air-Cooled Liquid Chillers

80 to 500 Nominal Tons  
(265 to 1740 Nominal kW)

**AQUAEDGE** greenspeed 

L: 31' 4"  
W: 7' 4"  
H: 7' 7"

Operating Weight: 17,834



30XA080-501  
Fixed Speed Air-Cooled Liquid Chillers  
with Optional Integrated Hydronic Pump Package



# Model number nomenclature

30XA B 302 FC- 71R8 L1

30XA 3 200 6 T - 0 - H - 3

**30XA – AquaForce® Air-Cooled Chiller**

**Design Series**

30XA							
3							
200							
6							

**Unit Sizes\***

080	102	140	192	240	282	350	501†
082	110	142	200	242	300	352	
090	112	160	202	260	302	401	
092	120	162	220	262	325	451	
100	122	180	222	280	327	476	

**Voltage**

1 – 575-3-60	6 – 460-3-60
2 – 380-3-60	7 – 200-3-60
4 – 230-3-60	

**SEE NEXT PAGE FOR REMAINDER OF MODEL NUMBER NOMENCLATURE**

- Condenser Coil/Ambient/Low Sound Options**
- Aluminum Fin/Copper Tube, High Ambient Temperature
  - 0 – Copper Fin/Copper Tube, High Ambient Temperature
  - 1 – Aluminum Pre-Coat Fin/Copper Tube, High Ambient Temperature
  - 2 – Aluminum E-Coat Fin/Copper Tube, High Ambient Temperature
  - 3 – Copper E-Coat Fin/Copper Tube, High Ambient Temperature
  - 4 – Novation® Heat Exchanger (MCHX), High Ambient Temperature
  - 5 – MCHX E-Coat, High Ambient Temperature
  - 6 – Aluminum Fin/Copper Tube, High Ambient Temperature, Low Sound
  - 7 – Copper Fin/Copper Tube, High Ambient Temperature, Low Sound
  - 8 – Aluminum Pre-Coat Fin/Copper Tube, High Ambient Temperature, Low Sound
  - 9 – Aluminum E-Coat Fin/Copper Tube, High Ambient Temperature, Low Sound
  - B – Copper E-Coat Fin/Copper Tube, High Ambient Temperature, Low Sound
  - C – MCHX, High Ambient Temperature, Low Sound
  - D – MCHX E-Coat, High Ambient Temperature, Low Sound
  - F – Aluminum Fin/Copper Tube, Standard Ambient Temperature, Low Sound
  - G – Copper Fin/Copper Tube, Standard Ambient Temperature, Low Sound
  - H – Aluminum Pre-Coat Fin/Copper Tube, Standard Ambient Temperature, Low Sound
  - J – Aluminum E-Coated Fin/Copper Tube, Standard Ambient Temperature, Low Sound
  - K – Copper E-Coat Fin/Copper Tube, Standard Ambient Temperature, Low Sound
  - L – MCHX, Standard Ambient Temperature, Low Sound
  - M – MCHX E-Coat, Standard Ambient Temperature, Low Sound
  - N – Aluminum Fin/Copper Tube, Standard Ambient Temperature
  - P – Copper Fin/Copper Tube, Standard Ambient Temperature
  - Q – Aluminum Pre-Coat Fin/Copper Tube, Standard Ambient Temperature
  - R – Aluminum E-Coat Fin/Copper Tube, Standard Ambient Temperature
  - S – Copper E-Coat Fin/Copper Tube, Standard Ambient Temperature
  - T – MCHX, Standard Ambient Temperature
  - V – MCHX E-Coat, Standard Ambient Temperature

- Cooler Options**
- Cooler without Heater
  - 0 – Cooler (flooded or DX) with Heater
  - 1 – DX Cooler with Heater, Hydronic Package
  - 3 – Flooded Cooler with Heater, Minus One Pass
  - 5 – Flooded Cooler with Heater, Plus One Pass
  - 6 – DX Cooler without Heater, Hydronic Package
  - 7 – Cooler with Heater, Full End Screen
  - 8 – DX Cooler with Heater, Hydronic Package, Full End Screen
  - F – DX Cooler without Heater, Hydronic Package, Full End Screen
  - G – Cooler without Heater, Full End Screen
  - K – Flooded Cooler with Heater, Minus One Pass, Full End Screen
  - M – Flooded Cooler with Heater, Plus One Pass, Full End Screen

- Hydronic Pump Package Options**
- None
  - 1 – Single Pump, 5 HP
  - 2 – Single Pump, 7.5 HP
  - 3 – Single Pump, 10 HP
  - 4 – Single Pump, 15 HP
  - 7 – Dual Pump, 5 HP
  - 8 – Dual Pump, 7.5 HP
  - B – Dual Pump, 10 HP
  - C – Dual Pump, 15 HP
  - G – Single Pump, 5 HP with VFD
  - H – Single Pump, 7.5 HP with VFD
  - J – Single Pump, 10 HP with VFD
  - K – Single Pump, 15 HP with VFD
  - N – Dual Pump, 5 HP with VFD
  - T – Dual Pump, 7.5 HP with VFD
  - Q – Dual Pump, 10 HP with VFD
  - R – Dual Pump, 15 HP with VFD

**LEGEND**

- CFSP – Coil Face Shipping Protection
- DX – Direct Expansion
- EMM – Energy Management Module
- LON – Local Operating Network
- SCCR – Short Circuit Current Rating
- VFD – Variable Frequency Drive
- XL – Across-the-Line Starter

\* xx0, xx1, xx5, and xx6 size units contain flooded style evaporators.  
 xx2 and xx7 size units contain direct expansion (DX) style evaporators.  
 † 30XA-501 is shipped in 2 modules and requires assembly in the field.



**Well exceeds ASHRAE 90.1 Standards.**



## SEISMICOMPLIANT\*

\* Meets IBC 2006, ASCE-7-05, CBC 2007, and OSHPD seismic requirements.

### Quality Assurance

ISO 9001:2015 certified processes



71R8

30XA 3 200 6 I - 0 - H - 3

SEE PREVIOUS PAGE FOR REMAINDER OF MODEL NUMBER NOMENCLATURE

Refrigeration Circuit Options

- None
0 - Suction Line Insulation
1 - Isolation Valves
2 - Low Ambient Head Pressure Control
3 - Suction Line Insulation, Isolation Valves
4 - Suction Line Insulation, Low Ambient Head Pressure Control
5 - Isolation Valves, Low Ambient Head Pressure Control
6 - Suction Line Insulation, Isolation Valves, Head Pressure Control
7 - Minimum Load Control
8 - Suction Line Insulation, Minimum Load Control
9 - Isolation Valves, Minimum Load Control
B - Low Ambient Head Pressure Control Operation, Minimum Load Control
C - Suction Line Insulation, Isolation Valves, Minimum Load Control
D - Suction Line Insulation, Head Pressure Control, Minimum Load Control
F - Isolation Valves, Head Pressure Control, Minimum Load Control
G - Suction Line Insulation, Isolation Valves, Head Pressure Control, Minimum Load Control
H - None (High Ambient)\*\*
J - Suction Line Insulation (High Ambient)\*\*
K - Isolation Valve (High Ambient)\*\*
M - Suction Line Insulation (High Ambient), Isolation Valve (High Ambient)\*\*
R - Minimum Load Control (High Ambient Valve Config Option)\*\*
S - Suction Line Insulation, Minimum Load Control (High Ambient Valve Config Option)\*\*
T - Isolation Valve, Minimum Load Control (High Ambient Valve Config Option)\*\*
W - Suction Line Insulation, Minimum Load Control (High Ambient), Isolation Valve (High Ambient Valve Config Option)\*\*

Electrical Options

- Single Point Power, XL, Terminal Block, No Control Transformer
0 - Single Point Power, Wye-Delta, Terminal Block, No Control Transformer
3 - Dual Point Power, XL, Terminal Block, No Control Transformer
4 - Dual Point Power, Wye-Delta, Terminal Block, No Control Transformer
7 - Single Point Power, XL, Disconnect, No Control Transformer
8 - Single Point Power, Wye-Delta, Disconnect, No Control Transformer
C - Dual Point Power, XL, Disconnect, No Control Transformer
D - Dual Point Power, Wye-Delta, Disconnect, No Control Transformer
H - Single Point Power, XL, Terminal Block, Control Transformer
J - Single Point Power, Wye-Delta, Terminal Block, Control Transformer
M - Dual Point Power, XL, Terminal Block, Control Transformer
N - Dual Point Power, Wye-Delta, Terminal Block, Control Transformer
R - Single Point Power, XL, Disconnect, Control Transformer
S - Single Point Power, Wye-Delta, Disconnect, Control Transformer
W - Dual Point Power, XL, Disconnect, Control Transformer
X - Dual Point Power, Wye-Delta, Disconnect, Control Transformer

Packaging/Security/High SCCR Options

- 0 - Coil Face Shipping Protection (CFSP), Skid
1 - CFSP, Skid, Top Crate, Bag
3 - CFSP, Coil Trim Panels
4 - CFSP, Skid, Coil Trim Panels
5 - CFSP, Skid, Top Crate, Bag, Coil Trim Panels
7 - CFSP, Coil Trim Panels, Upper and Lower Grilles
8 - CFSP, Skid, Coil Trim Panels, Upper and Lower Grilles
9 - CFSP, Skid, Top Crate, Bag, Coil Trim Panels, Upper and Lower Grilles
C - CFSP, Coil Trim Panels, Upper and Lower Grilles, Upper Hail Guards
D - CFSP, Skid, Coil Trim Panels, Upper and Lower Grilles, Upper Hail Guards
F - CFSP, Skid, Top Crate, Bag, Coil Trim Panels, Upper and Lower Grilles, Upper Hail Guards
H - Coil Face Shipping Protection (CFSP), Skid, High SCCR
J - CFSP, Export packaging, (Skid + Bag), High SCCR
K - CFSP, High SCCR
L - CFSP
M - CFSP, Coil Trim Panels, High SCCR
N - CFSP, Skid, Coil Trim Panels, High SCCR
P - CFSP, Export packaging, (Skid + Bag), Coil Trim Panels, High SCCR
R - CFSP, Coil Trim Panels, Upper & Lower Grilles, High SCCR
S - CFSP, Skid, Coil Trim Panels, Upper & Lower Grilles, High SCCR
T - CFSP, Export packaging, (Skid + Bag), Coil Trim Panels, Upper and Lower Grilles, High SCCR
W - CFSP, Coil Trim Panels, Upper & Lower Grilles, Upper Hail Guards, High SCCR
X - CFSP, Skid, Coil Trim Panels, Upper & Lower Grilles, Upper Hail Guards, High SCCR
Y - CFSP, Export packaging, (Skid + Bag), Coil Trim Panels, Upper and Lower Grilles, Upper Hail Guards, High SCCR

Controls/Communication Options

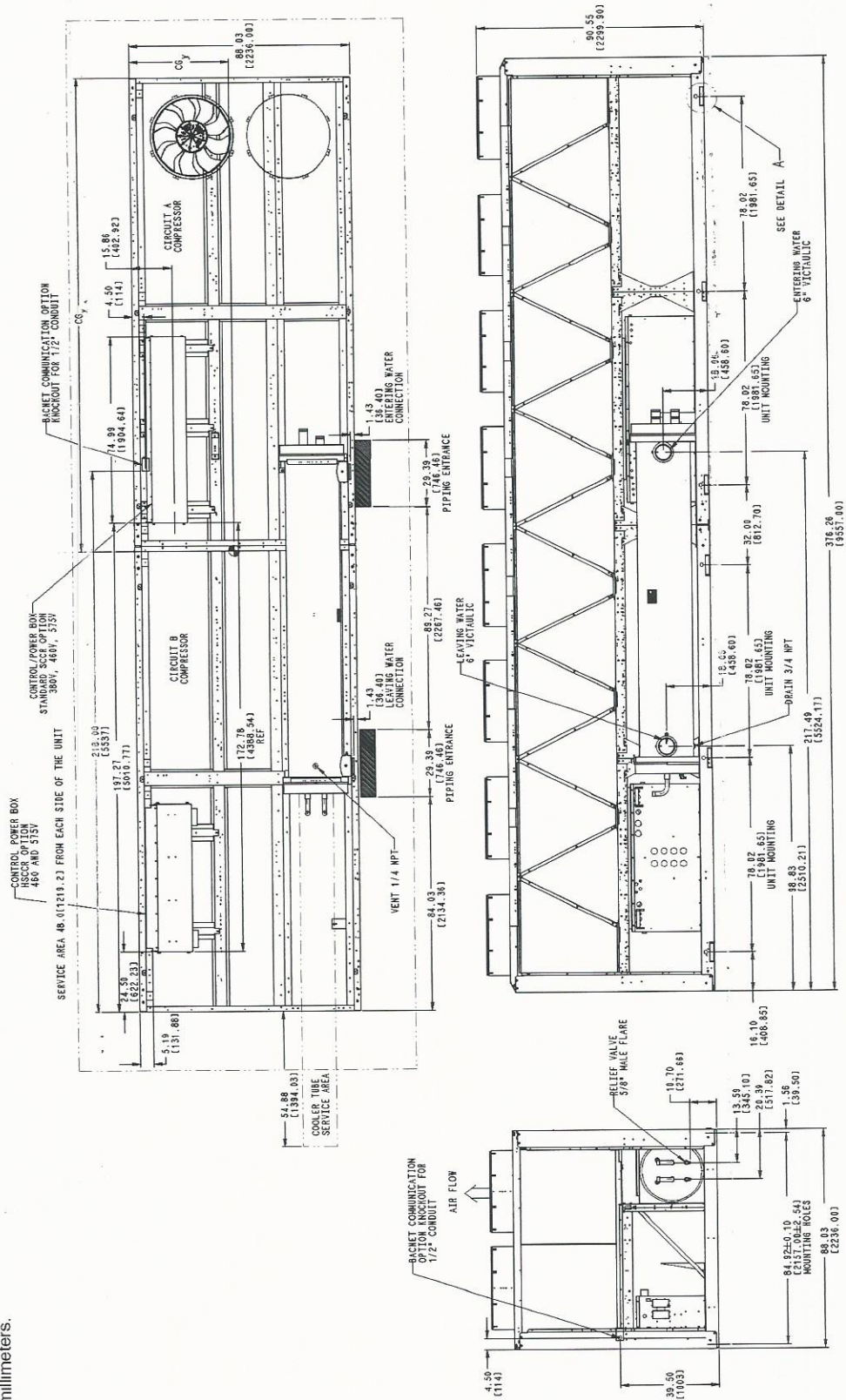
- Navigator™ Display
0 - Navigator, EMM
1 - Navigator, Service Option
3 - Touch Pilot™ Display
4 - Touch Pilot EMM
5 - Touch Pilot Service Option
6 - Touch Pilot EMM, Service Option
7 - Navigator, BACnet Translator
8 - Navigator, BACnet Translator, EMM
9 - Navigator, BACnet Translator, Service Option
B - Navigator, BACnet Translator, EMM, Service Option
C - Touch Pilot BACnet Translator
D - Touch Pilot BACnet Translator, EMM
F - Touch Pilot BACnet Translator, Service Option
G - Touch Pilot BACnet Translator, EMM, Service Option
H - Navigator, LON Translator
J - Navigator, LON Translator, EMM
K - Navigator, LON Translator, Service Option
L - Navigator, LON Translator, EMM, Service Option
M - Touch Pilot LON Translator
N - Touch Pilot LON Translator, EMM
P - Touch Pilot LON Translator, Service Option
Q - Touch Pilot LON Translator, EMM, Service Option
R - Navigator, BACnet Communication
S - Navigator, BACnet Communication, EMM
T - Navigator, BACnet Communication, Service Option
V - Navigator, BACnet Communication, EMM, Service Option
W - Touch Pilot BACnet Communication
X - Touch Pilot BACnet Communication, EMM
Y - Touch Pilot BACnet Communication, Service Option
Z - Touch Pilot BACnet Communication, EMM, Service Option

## 30XA302 (DX COOLER)

30XA UNIT	CGx	CGy
302	160.08 [4066]	44.32 [1126]

**NOTES:**

- Unit must have clearances as follows:  
 Top — Do not restrict  
 Sides and end — 6 ft (1.8 m) from solid surface  
 Airflow side — 8 ft (2.4 m) required for coil service area  
 2. Temperature relief devices are located on liquid line and economizer assemblies and have 1/4-in. flare connection.  
 3. Pressure relief devices are located on the cooler (3/8-in. NPT male connector) and on each oil separator (3/8-in. flare connection).  
 4. Dimensions are shown in inches. Dimensions in [ ] are in millimeters.



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### 30XA222-325 — ENGLISH

UNIT 30XA	222	240	242	260	262	280	282	300	302	325
<b>OPERATING WEIGHT (lb)*</b>										
Al-Cu Condenser Coils	15,071	14,887	15,231	16,853	17,055	17,022	17,224	17,362	17,834	18,834
Cu-Cu Condenser Coils	16,639	16,455	16,799	18,662	18,864	18,831	19,033	19,292	19,764	21,005
MCHX Condenser Coils	14,092	13,897	14,241	15,720	15,922	15,878	16,080	16,141	16,613	17,467
<b>REFRIGERANT TYPE</b>	R-134a, EXV Controlled System									
Refrigerant Charge (lb) Ckt A/Ckt B/Ckt C (RTPF)	246/198/—	270/270/—	246/246/—	375/220/—	330/206/—	375/270/—	330/256/—	415/270/—	386/261/—	375/375/—
Refrigerant Charge (lb) Ckt A/Ckt B/Ckt C (MCHX)	135/125/—	159.5/159/—	135/135/—	233.5/156/—	188/142/—	226.5/159.5/—	181/145/—	230/161/—	201/152/—	226.5/226.5/—
<b>COMPRESSORS</b>	Semi-Hermetic Twin Rotary Screws									
Quantity	2	2	2	2	2	2	2	2	2	2
Speed (rpm)	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500
(Qty) Compressor Model Number Ckt A	(1) 06TT-356	(1) 06TT-356	(1) 06TT-356	(1) 06TU-483	(1) 06TU-483	(1) 06TU-483	(1) 06TU-483	(1) 06TU-554	(1) 06TU-554	(1) 06TU-483
(Qty) Compressor Model Number Ckt B	(1) 06TT-301	(1) 06TT-356	(1) 06TT-356	(1) 06TT-301	(1) 06TT-301	(1) 06TT-356	(1) 06TT-356	N/A	(1) 06TT-356	(1) 06TU-483
(Qty) Compressor Model Number Ckt C	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Oil Charge (gal), Ckt A/Ckt B/Ckt C	6.75/6.25/—	6.75/6.75/—	6.75/6.75/—	7.5/6.75/—	7.5/6.75/—	7.5/6.75/—	7.5/6.75/—	7.5/6.75/—	7.5/6.75/—	7.5/7.5/—
Minimum Capacity Step (%)	14	15	15	11	11	13	13	12	12	15
Standard	10	10	10	8	8	9	9	7	7	10
Optional										
<b>COOLER</b>	Direct Expansion Cooler	Flooded, Shell and Tube Type	Direct Expansion Cooler	Flooded, Shell and Tube Type	Direct Expansion Cooler	Flooded, Shell and Tube Type	Direct Expansion Cooler	Flooded, Shell and Tube Type	Direct Expansion Cooler	Flooded, Shell and Tube Type
Net Fluid Volume (gal.)	71.0	39.0	71.0	42.0	82.8	44.0	82.8	48.5	108.0	50.5
Maximum Refrigerant Pressure (psig)	220	220	220	220	220	220	220	220	220	220
Maximum Water-Side Pressure without Pumps (psig)	300	300	300	300	300	300	300	300	300	300
Maximum Water-Side Pressure with Pumps (psig)	—	—	—	—	—	—	—	—	—	—
<b>WATER CONNECTIONS</b>										
Drain (NPT, in.)	3/4	3/8	3/4	3/8	3/4	3/8	3/4	3/8	3/4	3/8
Standard, Inlet and Outlet, Victaulic (in.)	6	6	6	8	6	6	6	6	6	8
Number of Passes	—	2	—	2	—	2	—	2	—	2
Minus 1 Pass, Inlet and Outlet, Victaulic (in.)	—	8	—	8	—	8	—	8	—	8
Number of Passes	—	1	—	1	—	1	—	1	—	1
Plus 1 Pass, Inlet and Outlet, Victaulic (in.)	—	6	—	8	—	8	—	8	—	8
Number of Passes	—	3	—	3	—	3	—	3	—	3
<b>CONDENSER FANS</b>	Shrouded Axial Type, Vertical Discharge									
Fan Speed (rpm) Standard/High Ambient**	850/1140	850/1140	850/1140	850/1140	850/1140	850/1140	850/1140	850/1140	850/1140	850/1140
No. Blades...Diameter (in.)	9...30	9...30	9...30	9...30	9...30	9...30	9...30	9...30	9...30	9...30
No. Fans (Ckt A/Ckt B/Ckt C)	7/6/—	7/6/—	7/6/—	9/6/—	9/6/—	9/7/—	9/7/—	10/6/—	10/6/—	9/9/—
Total Airflow (cfm) 850 rpm	120,900	120,900	120,900	139,500	139,500	148,800	148,800	148,800	148,800	167,400
Total Airflow (cfm) 1140 rpm	161,200	161,200	161,200	186,000	186,000	198,400	198,400	198,400	198,400	223,200
<b>CONDENSER COILS</b>										
No. Coils (Ckt A/Ckt B/Ckt C)	7/6/—	7/6/—	7/6/—	9/6/—	9/6/—	9/7/—	9/7/—	10/6/—	10/6/—	9/9/—
Total Face Area (sq ft)	305	305	305	352	352	375	375	375	375	422
<b>HYDRONIC MODULE (Optional)</b>	N/A									
<b>CHASSIS DIMENSIONS (in.)</b>										
Length	329	329	329	376	376	376	376	376	376	423
Width	88	88	88	88	88	88	88	88	88	88
Height	91	91	91	91	91	91	91	91	91	91

### 30XA327-501 — ENGLISH

UNIT 30XA	327	350	352	401	451	476	501
<b>OPERATING WEIGHT (lb)*</b>							
Al-Cu Condenser Coils	19,306	19,040	19,512	22,688	23,423	27,518	29,882
Cu-Cu Condenser Coils	21,477	21,211	21,683	25,100	26,074	30,175	33,020
MCHX Condenser Coils	17,939	17,659	18,131	20,785	21,737	25,362	27,403
<b>REFRIGERANT TYPE</b>	R-134a, EXV Controlled System						
Refrigerant Charge (lb) Ckt A/Ckt B/Ckt C (RTPF)	344/344/—	415/375/—	384/344/—	440/385/—	530/385/—	475/465/—	560/495/—
Refrigerant Charge (lb) Ckt A/Ckt B/Ckt C (MCHX)	195/195/—	231.5/226.5/—	200/195/—	275/225/—	290/225/—	285/280/—	300/290/—
<b>COMPRESSORS</b>	Semi-Hermetic Twin Rotary Screws						
Quantity	2	2	2	2	2	2	2
Speed (rpm)	3500	3500	3500	3500	3500	3500	3500
(Qty) Compressor Model Number Ckt A	(1) 06TU-483	(1) 06TU-554	(1) 06TU-554	(1) 06TV-680	(1) 06TV-819	(1) 06TV-753	(1) 06TV-819
(Qty) Compressor Model Number Ckt B	(1) 06TU-483	(1) 06TU-483	(1) 06TU-483	(1) 06TU-554	(1) 06TU-554	(1) 06TV-680	(1) 06TV-753
(Qty) Compressor Model Number Ckt C	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Oil Charge (gal), Ckt A/Ckt B/Ckt C	7.5/7.5/—	7.5/7.5/—	7.5/7.5/—	7.5/7.5/—	7.5/7.5/—	7.5/7.5/—	7.5/7.5/—
Minimum Capacity Step (%)	15	15	15	15	12	15	15
Standard	10	10	10	11	8	11	11
Optional							
<b>COOLER</b>	Direct Expansion Cooler	Flooded, Shell and Tube Type	Direct Expansion Cooler	Flooded, Shell and Tube Type			
Net Fluid Volume (gal.)	108.0	53.4	108.0	64.5	64.5	81.8	81.8
Maximum Refrigerant Pressure (psig)	220	220	220	220	220	220	220
Maximum Water-Side Pressure without Pumps (psig)	300	300	300	300	300	300	300
Maximum Water-Side Pressure with Pumps (psig)	—	—	—	—	—	—	—
<b>WATER CONNECTIONS</b>							
Drain (NPT, in.)	3/4	3/8	3/4	3/8	3/8	3/8	3/8
Standard, Inlet and Outlet, Victaulic (in.)	6	6	6	8	8	8	8
Number of Passes	—	2	—	2	2	2	2
Minus 1 Pass, Inlet and Outlet, Victaulic (in.)	—	8	—	8	8	8	8
Number of Passes	—	1	—	1	1	1	1
Plus 1 Pass, Inlet and Outlet, Victaulic (in.)	—	8	—	—	—	—	—
Number of Passes	—	3	—	—	—	—	—
<b>CONDENSER FANS</b>	Shrouded Axial Type, Vertical Discharge						
Fan Speed (rpm) Standard/High Ambient**	850/1140	850/1140	850/1140	—/1140	—/1140	—/1140	—/1140
No. Blades...Diameter (in.)	9...30	9...30	9...30	9...30	9...30	9...30	9...30
No. Fans (Ckt A/Ckt B/Ckt C)	9/9/—	9/9/—	9/9/—	11/9/—	13/9/—	11/11/—	14/12/—
Total Airflow (cfm) 850 rpm	167,400	167,400	167,400	—	—	—	—
Total Airflow (cfm) 1140 rpm	223,200	223,200	223,200	248,000	272,800	272,800	322,400
<b>CONDENSER COILS</b>							
No. Coils (Ckt A/Ckt B/Ckt C)	9/9/—	9/9/—	9/9/—	11/9/—	13/9/—	11/11/—	14/12/—
Total Face Area (sq ft)	422	422	422	469	516	516	608
<b>HYDRONIC MODULE (Optional)</b>	N/A						
<b>CHASSIS DIMENSIONS (in.)</b>							
Length	423	423	423	470	517	517	611
Width	88	88	88	88	88	88	88
Height	91	91	91	91	91	91	91

**LEGEND**

- Cu — Copper
- Al — Aluminum
- EXV — Electronic Expansion Valve
- MCHX — Microchannel Heat Exchanger
- N/A — Not Applicable

\* Operating weight includes 2 pumps on models 30XA090-162. No pumps are available on 30XA080, 30XA082, or 30XA180-501. All weights include coil trim panels. See pages 10-24 for mounting weights for units without pumps and units with single pump packages.

† 30XA080,082 units do not have an economizer.  
 \*\* The standard ambient temperature option is not available on 30XA401, 451, 476, and 501 units. The high ambient temperature option is not available on 30XA080-122 units.