

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



Turn to the experts

## Product Data

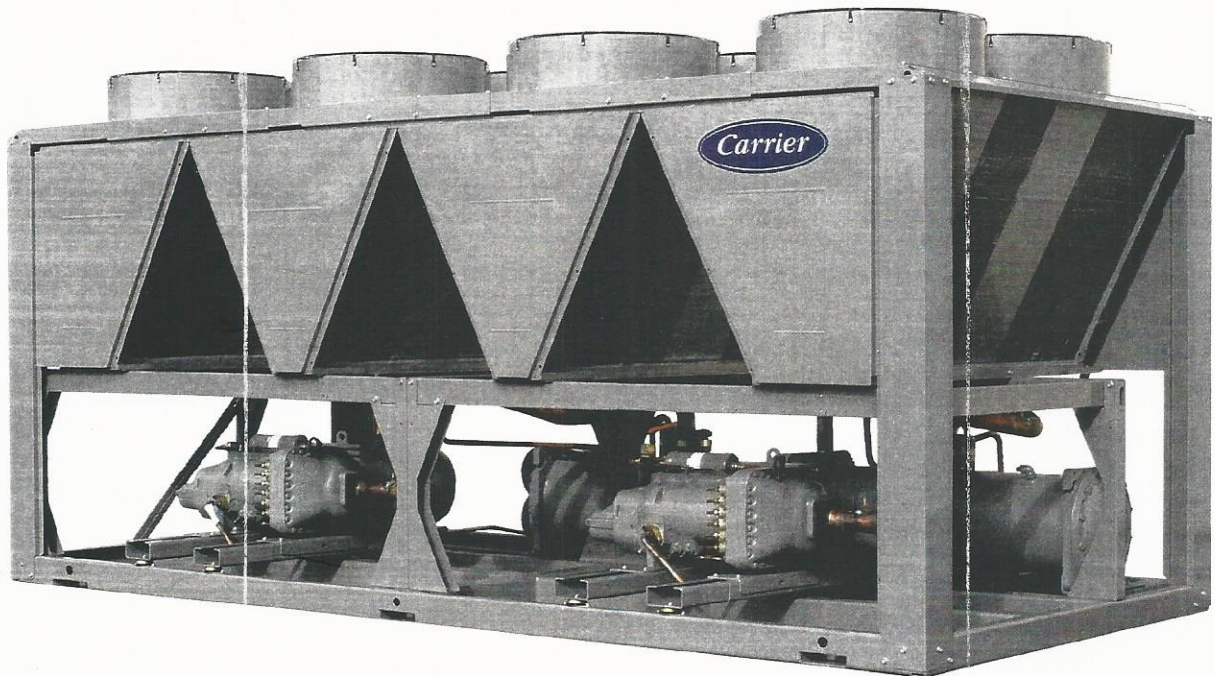
### AquaForce® Fixed Speed Air-Cooled Liquid Chillers

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

**AQUAEDGE** greenspeed

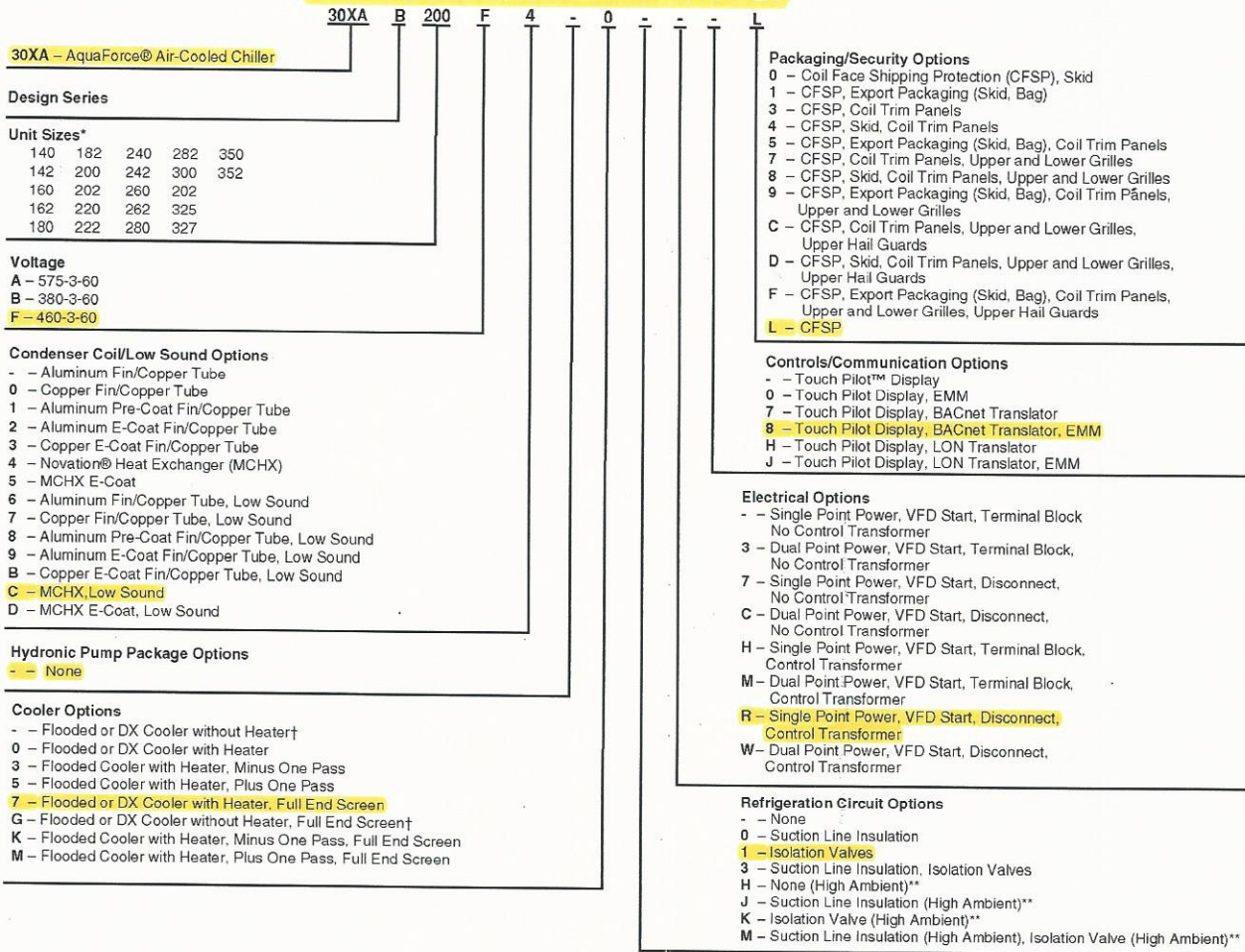
L: 31' 4"  
W: 7' 4"  
H: 7' 7"

Operating Weight: 17,834



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

# 30XA B 302 F C - 7 1 R 8 L1



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

**Design Series**

**Unit Sizes\***

140	182	240	282	350
142	200	242	300	352
160	202	260	202	
162	220	262	325	
180	222	280	327	

**Voltage**

- A – 575-3-60
- B – 380-3-60
- F – 460-3-60

**Condenser Coil/Low Sound Options**

- Aluminum Fin/Copper Tube
- 0 – Copper Fin/Copper Tube
- 1 – Aluminum Pre-Coat Fin/Copper Tube
- 2 – Aluminum E-Coat Fin/Copper Tube
- 3 – Copper E-Coat Fin/Copper Tube
- 4 – Novation® Heat Exchanger (MCHX)
- 5 – MCHX E-Coat
- 6 – Aluminum Fin/Copper Tube, Low Sound
- 7 – Copper Fin/Copper Tube, Low Sound
- 8 – Aluminum Pre-Coat Fin/Copper Tube, Low Sound
- 9 – Aluminum E-Coat Fin/Copper Tube, Low Sound
- B – Copper E-Coat Fin/Copper Tube, Low Sound
- C – MCHX, Low Sound
- D – MCHX E-Coat, Low Sound

**Hydronic Pump Package Options**

- None

**Cooler Options**

- Flooded or DX Cooler without Heater†
- 0 – Flooded or DX Cooler with Heater
- 3 – Flooded Cooler with Heater, Minus One Pass
- 5 – Flooded Cooler with Heater, Plus One Pass
- 7 – Flooded or DX Cooler with Heater, Full End Screen
- G – Flooded or DX 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

**Packaging/Security Options**

- 0 – Coil Face Shipping Protection (CFSP), Skid
- 1 – CFSP, Export Packaging (Skid, Bag)
- 3 – CFSP, Coil Trim Panels
- 4 – CFSP, Skid, Coil Trim Panels
- 5 – CFSP, Export Packaging (Skid, 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, Export Packaging (Skid, 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, Export Packaging (Skid, Bag), Coil Trim Panels, Upper and Lower Grilles, Upper Hail Guards
- L – CFSP

**Controls/Communication Options**

- Touch Pilot™ Display
- 0 – Touch Pilot Display, EMM
- 7 – Touch Pilot Display, BACnet Translator
- 8 – Touch Pilot Display, BACnet Translator, EMM
- H – Touch Pilot Display, LON Translator
- J – Touch Pilot Display, LON Translator, EMM

**Electrical Options**

- Single Point Power, VFD Start, Terminal Block, No Control Transformer
- 3 – Dual Point Power, VFD Start, Terminal Block, No Control Transformer
- 7 – Single Point Power, VFD Start, Disconnect, No Control Transformer
- C – Dual Point Power, VFD Start, Disconnect, No Control Transformer
- H – Single Point Power, VFD Start, Terminal Block, Control Transformer
- M – Dual Point Power, VFD Start, Terminal Block, Control Transformer
- R – Single Point Power, VFD Start, Disconnect, Control Transformer
- W – Dual Point Power, VFD Start, Disconnect, Control Transformer

**Refrigeration Circuit Options**

- None
- 0 – Suction Line Insulation
- 1 – Isolation Valves
- 3 – Suction Line Insulation, Isolation Valves
- 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)\*\*

**LEGEND**

- CFSP — Coil Face Shipping Protection
- EMM — Energy Management Module
- LON — Local Operating Network
- MCHX — Microchannel Heat Exchanger
- VFD — Variable Frequency Drive

\* Unit sizes ending in 0 or 5 have flooded coolers. Unit sizes ending in 2 or 7 have direct expansion (DX) coolers.

† Flooded cooler without heater available in Middle East only.

\*\* Available in Middle East only.

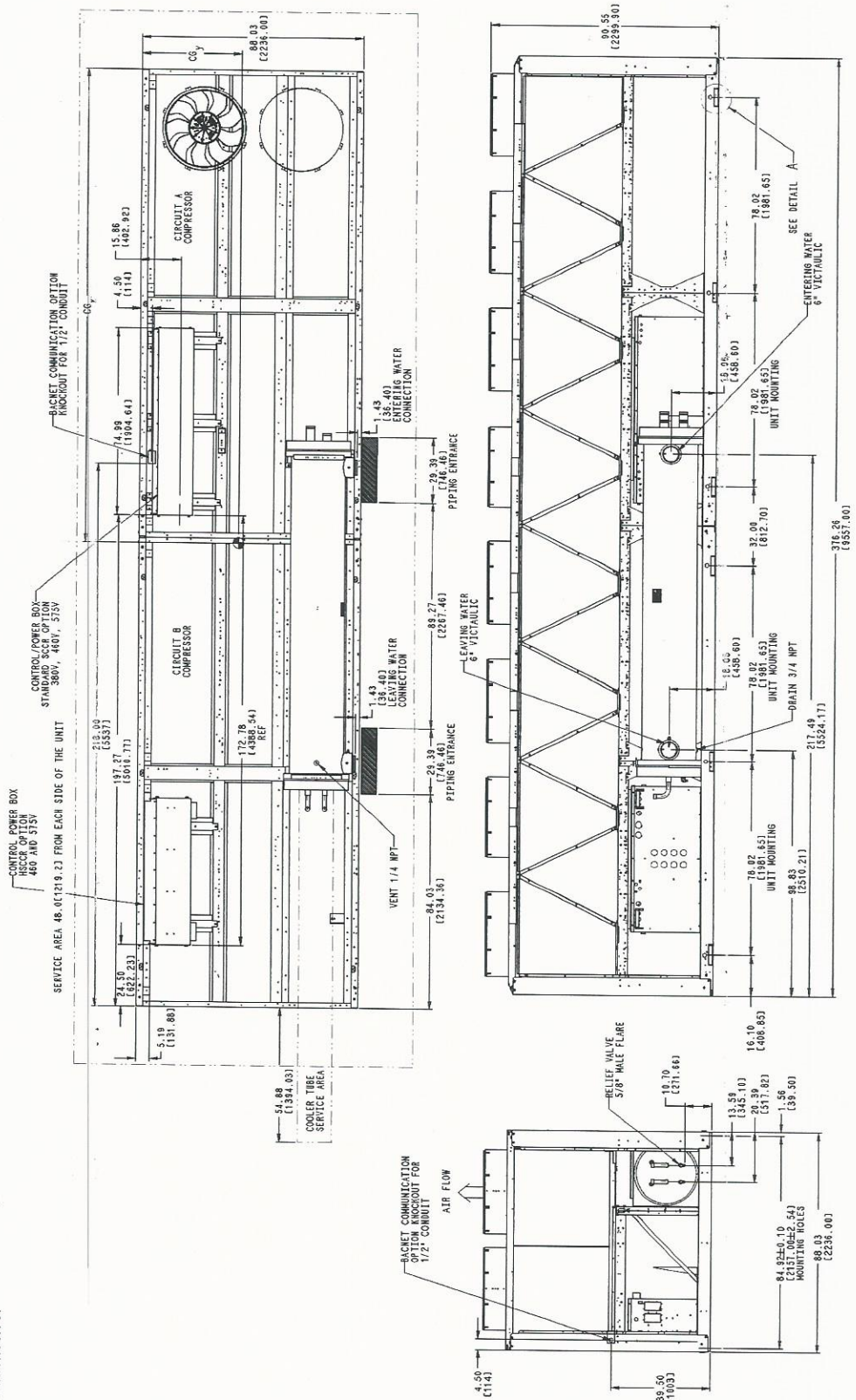
**Fig. 1 — AquaForce® Chiller with GreenSpeed® Intelligence Model Number Designation**

## 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  
 Temperature relief devices are located on liquid line and economizer assemblies and have 1/4-in. flare connection.  
 Pressure relief devices are located on the cooler (3/8-in. NPT male connector) and on each oil separator (3/8-in. flare connection).
- Dimensions are shown in inches. Dimensions in [ ] are in millimeters.



000CN500005100A D



### 30XA22-325 — 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/—	220.5/159.5/—	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	(1) 06TT-356	(1) 06TT-356	(1) 06TT-356
(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 (%)										
Standard	14	15	15	11	11	13	13	12	12	15
Optional	10	10	10	8	8	9	9	7	7	10
<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	6	6	6	6	6	6	6
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	10...6	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	33,200
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/—	490/385/—	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 (%)							
Standard	15	15	15	15	12	15	15
Optional	10	10	10	11	8	11	11
<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	6	6	6	6
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.