



Product Data

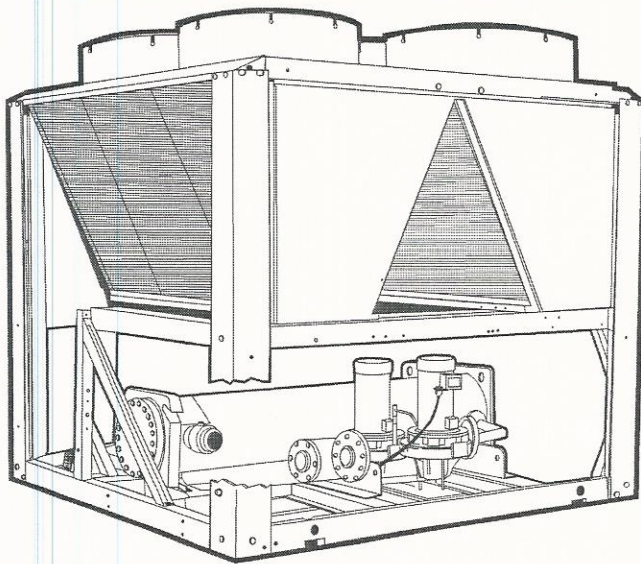
AquaSnap® 30RB060-390 Air-Cooled Chillers and 30RB080-390 Air-Cooled Chillers with Greenspeed® Intelligence

EPOXY COATED COND. COILS

60 to 390 Nominal Tons
(210 to 1370 kW)

MODEL #: 30RBX19065-5K--3
S/N: 0914Q90226
YR: 2014
140 TONS R-410A
460-3-60

greenspeed AQUASNAP



The AquaSnap chiller is an effective all-in-one package that is easy to install and easy to own. AquaSnap chillers cost less to purchase and install, and then operate quietly and efficiently. Value-added features include:

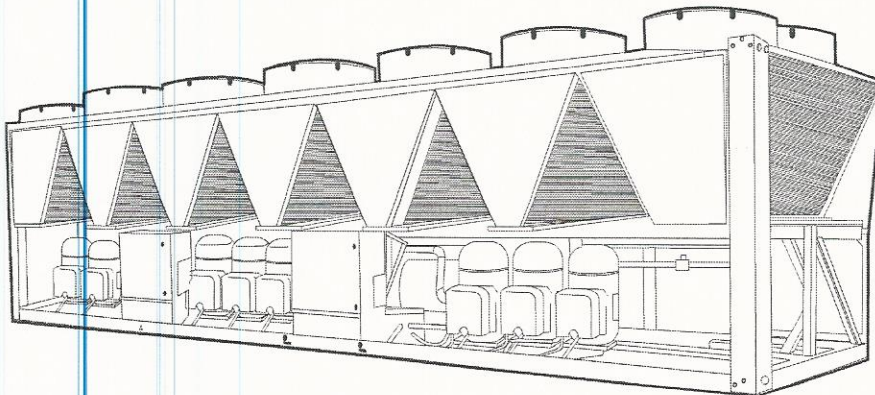
- Rotary scroll compression
- Puron® HFC refrigerant (R-410A)
- Quiet AeroAcoustic™ fan system
- Easy to use ComfortLink controls
- Optional full heat reclaim package
- Optional integrated hydronic pump package, available with variable frequency drive (VFD)
- Novation® heat exchanger technology with microchannel coil
- High-efficiency, variable-speed condenser fans (30RB080-390 with Greenspeed intelligence)

Features/Benefits

Carrier's superior chiller design provides savings at initial purchase, at installation, and for years afterward.

Costs less right from the start

Carrier's AquaSnap chillers feature a compact, all-in-one package design that installs quickly and easily on the ground or the rooftop. The optional pump and hydronic components are already built in; this costs less than buying and installing the components individually. The chiller's fully integrated and pre-assembled hydronic system installs in minutes. No other chiller in this class installs so easily and inexpensively. The preassembled and integrated hydronic module (available with VFD) uses top-quality components and pumps to ensure years of reliable operation. The AquaSnap unit's high efficiency keeps operating costs down.



Puron®

**ASHRAE
90.1
COMPLIANT**

SEISMICOMPLIANT*

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

Model number nomenclature



30RB x 190 6 5 8 0 5 K - - 3

30RB – Air-Cooled AquaSnap® Chiller

Design Series

Nominal Sizes

060	110	170	275	360*
070	120	190	300	390*
080	130	210	315*	
090	150	225	330*	
100	160	250	345*	

Voltage

1 – 575-3-60	5 – 208/230-3-60
2 – 380-3-60	6 – 460-3-60

Condenser Coil 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 – Microchannel (MCHX)
- 5 – E-Coat Microchannel (MCHX)

Hydronics Option

- – No Pump Installed
- 0 – Single Pump, 3 HP
- 1 – Single Pump, 5 HP
- 2 – Single Pump, 7.5 HP
- 3 – Single Pump, 10 HP
- 4 – Single Pump, 15 HP
- 6 – Dual Pump, 3 HP
- 7 – Dual Pump, 5 HP
- 8 – Dual Pump, 7.5 HP, Low Head
- 9 – Dual Pump, 7.5 HP, High Head
- B – Dual Pump, 10 HP
- C – Dual Pump, 15 HP
- F – Single Pump, 3 HP with VFD
- 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
- M – Dual Pump, 3 HP with VFD
- N – Dual Pump, 5 HP with VFD
- P – Dual Pump, 7.5 HP, Low Head with VFD
- T – Dual Pump, 7.5 HP, High Head with VFD
- Q – Dual Pump, 10 HP with VFD
- R – Dual Pump, 15 HP with VFD
- Z – Special order designation

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

Cooler Options

- – Integral Cooler, CRN (Canada)
- 0 – Integral Cooler, Cooler Heater, CRN (Canada)
- 4 – Integral Cooler, Microchannel (MCHX), CRN (Canada)
- 5 – Integral Cooler, Cooler Heater, Microchannel (MCHX), CRN (Canada)
- G – Integral Cooler, no CRN
- H – Integral Cooler, Cooler Heater, no CRN
- K – Integral Cooler, Microchannel (MCHX), no CRN
- L – Integral Cooler, Cooler Heater, Microchannel (MCHX), no CRN
- R – Integral Cooler, Microchannel (MCHX), Heat Recovery, no CRN
- S – Integral Cooler, Cooler Heater, Microchannel (MCHX), Heat Recovery, no CRN
- T – Integral Cooler, Microchannel (MCHX), Heat Recovery, CRN (Canada)
- V – Integral Cooler, Cooler Heater, Microchannel (MCHX), Heat Recovery, CRN (Canada)

LEGEND

- CRN – Canadian Registration Number
- EMM – Energy Management Module
- GFI-CO – Ground Fault Interrupting Convenience Outlet
- LON – Local Operating Network
- SCCR – Short Circuit Current Rating
- VFD – Variable Frequency Device
- XL – Across-the-Line Start

*Refer to the Unit Sizes and Modular Combinations table below.
NOTE: A "Z" in position 11 indicates a special order machine. Digits following do not correspond to tables.

Quality Assurance
Certified to ISO 9001

UNIT SIZES AND MODULAR COMBINATIONS

UNIT SIZE	NOMINAL TONS	NOMINAL kW	MODULE A	MODULE B
060	60	210	—	—
070	70	245	—	—
080	80	280	—	—
090	90	315	—	—
100	100	350	—	—
110	110	385	—	—
120	120	421	—	—
130	130	456	—	—
150	150	526	—	—
160	160	562	—	—
170	170	597	—	—

UNIT SIZE	NOMINAL TONS	NOMINAL kW	MODULE A	MODULE B
190	190	667	—	—
210	210	737	—	—
225	225	791	—	—
250	250	879	—	—
275	275	967	—	—
300	300	1055	—	—
315	315	1107	160	160
330	330	1160	170	160
345	345	1213	170	170
360	360	1266	190	170
390	390	1370	190	190

30RB F 190 6 - 8 0 - - - K - - 3 L

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

Refrigeration Circuit Options

- No Suction Line Insulation
- 0 - Suction Insulation
- 1 - Suction Service Valves
- 2 - Low Ambient Head Pressure Control Operation
- 3 - Suction Insulation, Suction Service Valves
- 4 - Suction Insulation, Low Ambient Head Pressure Control Operation
- 5 - Suction Service Valves, Low Ambient Head Pressure Control Operation
- 6 - Suction Insulation, Service Valves, Low Ambient Head Pressure Control Operation
- 7 - Minimum Load Control
- 8 - Suction Insulation, Minimum Load Control Operation
- 9 - Suction Service Valves, Minimum Load Control Operation
- B - Low Ambient Operation, Minimum Load Control Operation
- C - Suction Insulation, Suction Service Valves, Minimum Load Control Operation
- D - Suction Insulation, Low Ambient Head Pressure Control Operation, Minimum Load Control Operation
- F - Suction Service Valves, Low Ambient Head Pressure Control Operation, Minimum Load Control Operation
- G - Suction Insulation, Suction Service Valves, Low Ambient Head Pressure Control, Operation, Minimum Load Control Operation
- H - Suction Service Valves, High-Efficiency Variable Condenser Fans
- J - Suction Insulation, Suction Service Valve, High-Efficiency Variable Condenser Fans
- K - High-Efficiency Variable Condenser Fans
- L - Suction Insulation, High-Efficiency Variable Condenser Fans
- M - Suction Service Valves, High-Efficiency Variable Condenser Fans, Minimum Load Control Operation
- N - Suction Insulation, Suction Service Valve, High-Efficiency Variable Condenser Fans, Minimum Load Control Operation
- P - High-Efficiency Variable Condenser Fans, Minimum Load Control Operation
- Q - Suction Insulation, High-Efficiency Variable Condenser Fans, Minimum Load Control Operation

Packaging/Security Options

- L - No Packaging
- 0 - Skid
- 1 - Skid, Top Crate, Bag
- 3 - Coil Trim Panels
- 4 - Skid, Coil Trim Panels
- 5 - Skid, Top Crate, Bag, Coil Trim Panels
- 7 - Coil Trim Panels, Upper and Lower Grilles
- 8 - Skid, Coil Trim Panels, Upper and Lower Grilles
- 9 - Skid, Top Crate, Bag, Coil Trim Panels, Upper and Lower Grilles
- C - Trim Panels, Upper and Lower Grilles, Upper Hail Guards
- D - Skid, Trim Panels, Upper and Lower Grilles, Upper Hail Guards
- F - Skid, Top Crate, Bag, Trim Panels, Upper and Lower Grilles, Upper Hail Guards
- H - Skid, Full End Covers
- J - Skid, Top Crate, Bag, Full End Covers
- K - Full End Covers

Controls/Communication Options

- None
- 0 - EMM
- 1 - Remote Service Port, GFI-CO
- 2 - EMM, Remote Service Port, GFI-CO
- 3 - BACnet Communication
- 4 - BACnet Communication, EMM
- 5 - BACnet Communication, Remote Service Port, GFI-CO
- 6 - BACnet Communication, EMM, Remote Service Port, GFI-CO
- 7 - BACnet/Modbus Translator
- 8 - BACnet/Modbus Translator, EMM
- 9 - BACnet/Modbus Translator, Remote Service Port, GFI-CO
- B - BACnet/Modbus Translator, EMM, Remote Service Port, GFI-CO
- H - LON Translator
- J - LON Translator, EMM
- K - LON Translator, Remote Service Port, GFI-CO
- L - LON Translator, EMM, Remote Service Port, GFI-CO

Electrical/Low Sound/High SCCR Options

- Single Point Power Connections, XL, Terminal Block
- 0 - Single Point Power Connections, XL, Terminal Block, High SCCR
- 3 - Dual Point Power Connections, XL, Terminal Block
- 4 - Dual Point Power Connections, XL, Terminal Block, High SCCR
- 7 - Single Point Power Connections, XL, Non-Fused Disconnect
- 8 - Single Point Power Connections, XL, Non-Fused Disconnect, High SCCR
- C - Dual Point Power Connections, XL, Non-Fused Disconnect
- D - Dual Point Power Connections, XL, Non-Fused Disconnect, High SCCR
- G - Single Point Power Connections, XL, Terminal Block, Cmpr Blankets
- H - Single Point Power Connections, XL, Terminal Block, Cmpr Blankets, High SCCR
- J - Dual Point Power Connections, XL, Terminal Block, Cmpr Blankets
- K - Dual Point Power Connections, XL, Terminal Block, Cmpr Blankets, High SCCR
- L - Single Point Power Connections, XL, Non-Fused Disconnect, Cmpr Blankets
- M - Single Point Power Connections, XL, Non-Fused Disconnect, Cmpr Blankets, High SCCR
- N - Dual Point Power Connections, XL, Non-Fused Disconnect, Cmpr Blankets
- P - Dual Point Power Connections, XL, Non-Fused Disconnect, Cmpr Blankets, High SCCR
- Q - Single Point Power Connections, XL, Terminal Block, Cmpr Blankets, Cmpr Enclosures
- R - Single Point Power Connections, XL, Terminal Block, Cmpr Blankets, Cmpr Enclosures, High SCCR
- S - Dual Point Power Connections, XL, Terminal Block, Cmpr Blankets, Cmpr Enclosures
- T - Dual Point Power Connections, XL, Terminal Block, Cmpr Blankets, Cmpr Enclosures, High SCCR
- V - Single Point Power Connections, XL, Non-Fused Disconnect, Cmpr Blankets, Cmpr Enclosures
- W - Single Point Power Connections, XL, Non-Fused Disconnect, Cmpr Blankets, Cmpr Enclosures, High SCCR
- X - Dual Point Power Connections, XL, Non-Fused Disconnect, Cmpr Blankets, Cmpr Enclosures
- Y - Dual Point Power Connections, XL, Non-Fused Disconnect, Cmpr Blankets, Cmpr Enclosures, High SCCR

LEGEND

- CRN - Canadian Registration Number
- EMM - Energy Management Module
- GFI-CO - Ground Fault Interrupting Convenience Outlet
- LON - Local Operating Network
- SCCR - Short Circuit Current Rating
- VFD - Variable Frequency Device
- XL - Across-the-Line Start

*Refer to the Unit Sizes and Modular Combinations table on page 4.
NOTE: A "Z" in position 11 indicates a special order machine. Digits following do not correspond to tables.

30RB060-300 — ENGLISH (cont)

UNIT 30RB	160	170	190	210	225	250	275	300
OPERATING WEIGHT (lb)*								
Al-Cu Condenser Coil	10,266	10,601	12,013	13,734	14,067	15,468	16,915	18,306
Cu-Cu Condenser Coil	11,472	11,807	13,460	15,181	15,514	17,157	18,845	20,477
MCHX Condenser Coil	9,475	9,799	11,064	12,772	13,093	14,349	15,647	16,893
REFRIGERANT TYPE								
R-410A, EXV Controlled System								
Refrigerant Charge (lb)								
Std Coil, Ckt A/Ckt B/Ckt C	162/106/—	162/130/—	162/162/—	133/106/133	133/133/133	133/133/162	162/162/133	162/162/162
MCHX Coil, Ckt A/Ckt B/Ckt C	83/55/—	83/64/—	83/87/—	59/53/64	59/59/64	59/59/89	83/87/68	83/87/94
COMPRESSORS								
Scroll, Hermetic								
Quantity	7	7	8	9	9	10	11	12
Speed (rpm)					3500			
(Qty) Compressor Model Number Ckt A	(4) SH295	(4) SH295	(4) SH295	(3) SH295	(3) SH295	(3) SH295	(4) SH295	(4) SH295
(Qty) Compressor Model Number Ckt B	(3) SH240	(3) SH295	(4) SH295	(3) SH240	(3) SH295	(3) SH295	(4) SH295	(4) SH295
(Qty) Compressor Model Number Ckt C	N/A	N/A	N/A	(3) SH295	(3) SH295	(4) SH295	(3) SH295	(4) SH295
Oil Charge (Pt, Ckt A/Ckt B/Ckt C)	58.4/39.4/—	58.4/43.8/—	58.4/58.4/—	43.8/39.4/43.8	43.8/43.8/43.8	43.8/43.8/58.4	58.4/58.4/43.8	58.4/58.4/58.4
No. Capacity Steps								
Standard	7	7	8	9	9	10	11	12
Optional (Maximum)	8	8	9	10	10	11	12	13
Minimum Capacity Step (%)								
Standard	13	14	13	10	11	10	9	8
Optional	8	10	9	6	8	7	7	6
Capacity (%)								
Ckt A	62	57	50	36	33	30	36	33
Ckt B	38	43	50	28	33	30	36	33
Ckt C	N/A	N/A	N/A	36	33	40	28	33
COOLER								
Direct Expansion, Shell and Tube Type								
Weight (empty, lb)	1518	1518	1518	2382	2382	2382	2382	2382
Net Fluid Volume (gal)	73.5	73.5	73.5	86.6	86.6	86.6	86.6	86.6
Maximum Refrigerant Pressure (psig)	445	445	445	445	445	445	445	445
Maximum Water-Side Pressure without Pumps (psig)	300	300	300	300	300	300	300	300
Maximum Water-Side Pressure with Pumps (psig)	150	150	150	150	150	150	150	150
COOLER WATER CONNECTIONS (in.)								
Inlet and Outlet, Victaulic	6	6	6	6	6	6	6	6
Drain (NPT)	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
CONDENSER FANS								
Shrouded Axial Type, Vertical Discharge								
Standard/Low Noise Type								
Fan Speed (rpm) Standard	1140	1140	1140	1140	1140	1140	1140	1140
No. Blades...Diameter (in.)	9...30	9...30	9...30	9...30	9...30	9...30	9...30	9...30
No. Fans (Ckt A/Ckt B/Ckt C)	6/4/—	6/4/—	6/6/—	4/4/4	4/4/4	4/4/6	6/6/4	6/6/6
Total Airflow (cfm)	124,000	124,000	148,800	148,800	148,800	173,600	198,400	223,200
CONDENSER COILS								
No. Coils (Ckt A/Ckt B/Ckt C)	6/4/—	6/4/—	6/6/—	4/4/4	4/4/4	4/4/6	6/6/4	6/6/6
Total Face Area (sq ft)	235	235	282	282	282	328	375	422
Max Working Refrigerant Pressure (psig)	656	656	656	656	656	656	656	656
OPTIONAL HEAT RECOVERY CONDENSER								
Flooded, Shell and Tube Type								
Weight (lb) (empty)	1296	1296	1296	—	—	—	—	—
Net Fluid Volume (gal)	17.4	17.4	17.4	—	—	—	—	—
Maximum Refrigerant Pressure (psig)	656	656	656	—	—	—	—	—
Maximum Water-Side Pressure (psig)	300	300	300	—	—	—	—	—
Water Connections (in.)								
Inlet and Outlet, Victaulic	5	5	5	—	—	—	—	—
Drain (NPT)	3/8	3/8	3/8	—	—	—	—	—
HYDRONIC MODULE (Optional)								
Pump	Pump(s) with pressure/temperature taps and combination valve. Single or Dual, 1800 or 3600 rpm				Not available			
CHASSIS DIMENSIONS (ft-in.)								
Length	19-8			23-7		27-6	31-5	35-4
Width								
Height								

LEGEND

- Al-Cu — Aluminum Fin/Copper Tube Condenser Coil
- Cu-Cu — Copper Fin/Copper Tube Condenser Coil
- EXV — Electronic Expansion Valve
- MCHX — Microchannel Condenser Coil
- N/A — Not Applicable

*Operating weight does not include any options.

NOTES:

1. 30RB chillers with Greenspeed® intelligence are not available in unit sizes 060 and 070.
2. No pumps are available for unit sizes 210-300.

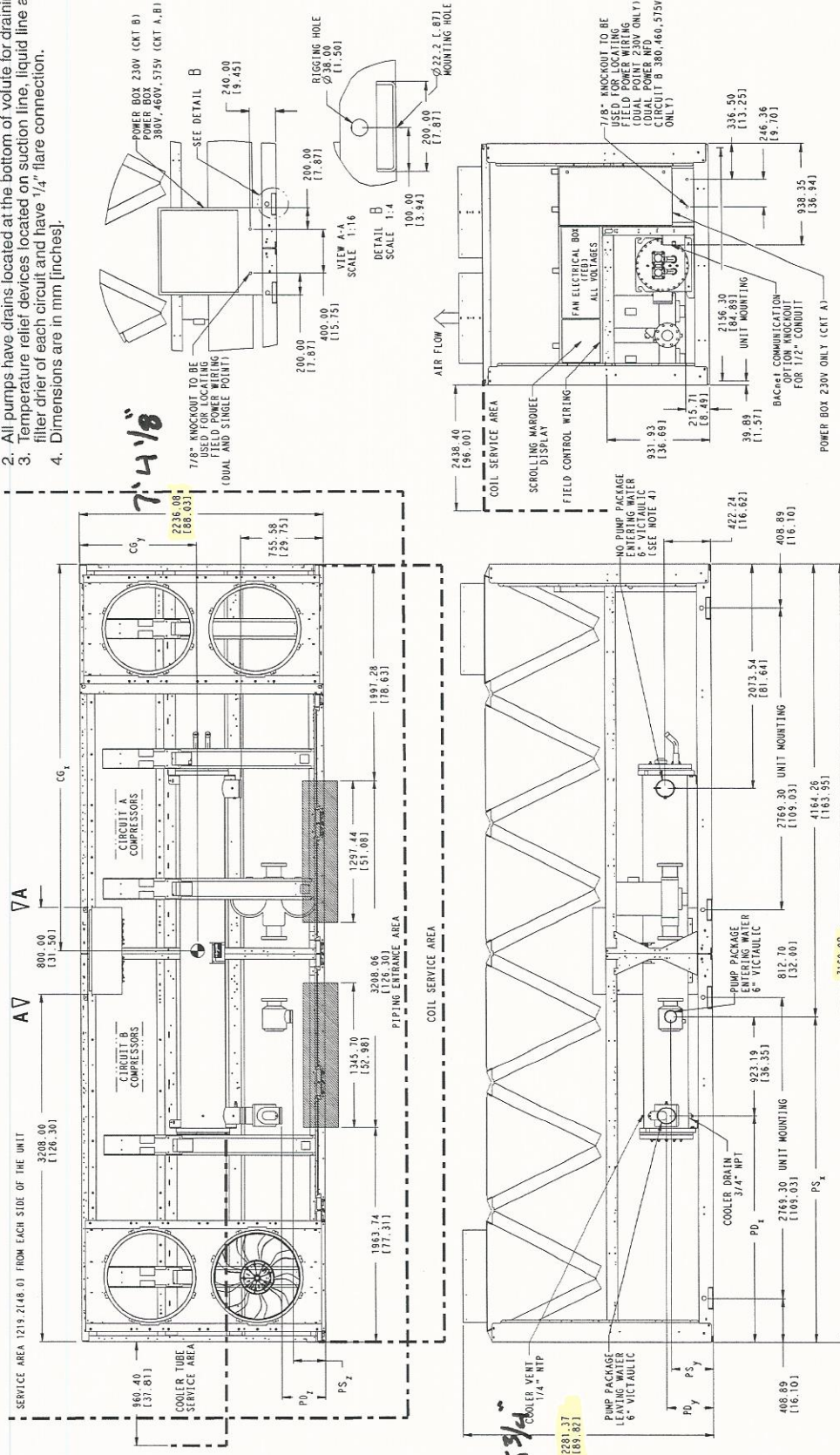
Dimensions (cont)



30RB190, 360A, 390A/B AIR-COOLED CHILLER

NOTES:
1. Unit must have clearances as follows:
Top — Do not restrict.
Sides and End — 6' (1.8 m) from solid surface.
Side — 8' (2.4 m) required for coil service area.

- All pumps have drains located at the bottom of volute for draining.
- Temperature relief devices located on suction line, liquid line and filter drier of each circuit and have 1/4" flare connection.
- Dimensions are in mm [inches].



25' 6 1/4"

WEIGHT	MAX WEIGHT	WEIGHT	MAX WEIGHT	WEIGHT	MAX WEIGHT	WEIGHT	MAX WEIGHT	WEIGHT	MAX WEIGHT	WEIGHT	MAX WEIGHT	WEIGHT	MAX WEIGHT	WEIGHT	MAX WEIGHT	WEIGHT	MAX WEIGHT
30RB190	10749	10749	10749	10749	10749	10749	10749	10749	10749	10749	10749	10749	10749	10749	10749	10749	10749
360A	10749	10749	10749	10749	10749	10749	10749	10749	10749	10749	10749	10749	10749	10749	10749	10749	10749
390A/B	10749	10749	10749	10749	10749	10749	10749	10749	10749	10749	10749	10749	10749	10749	10749	10749	10749

MCHX — Microchannel Condenser Coil