

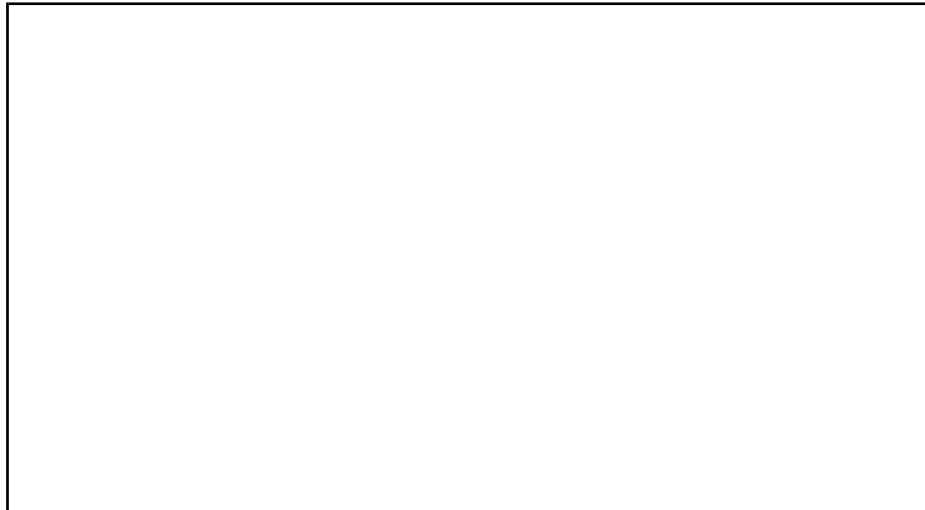


30HXA-3SB

30HXA076-271

CONDENSERLESS LIQUID CHILLER

- PERFORMANCE DATA**
- CERTIFIED DIMENSION PRINT**
- FIELD WIRING DIAGRAM**



Date:	Supersedes:	30HXA076-271 CONDENSERLESS LIQUID CHILLER	30HXA	Rev.: -3SB
JOB NAME:		LOCATION:		
BUYER:		BUYER P.O. #	CARRIER #	
UNIT NUMBER:		MODEL NUMBER:		
PERFORMANCE DATA CERTIFIED BY:			DATE:	

DESCRIPTION

Packaged condenserless liquid chillers are factory wired, piped, and charged with nitrogen holding charge.

FEATURES

Cooler is mechanically cleanable shell-and-tube type with removable heads. It is tested and stamped in accordance with ASME Code for a refrigerant working side pressure of 235 psig (1620 kPa) and a minimum water side pressure of 300 psig (2068 kPa) (250 psig [1720 kPa] in Canada).

Compressor is semi-hermetic twin screw design with refrigerant gas cooled motor and integral oil filter and discharge gas muffler. Complete thermal and electrical protection is provided.

Automatic compressor lead/lag.

Each refrigerant circuit includes oil separator, high side pressure relief device, liquid and discharge line shutoff valve, filter drier, moisture indicating sight glass, expansion valve.

Microprocessor control includes keypad, system status (including temperatures, pressures and % loading) and the alarm conditions.

Capacity control based on leaving chilled water temperature with return water temperature sensing.

7-day time scheduling of pump(s) and chiller.

PERFORMANCE DATA

<u>UNIT</u> Capacity _____ Compressor Input Power _____ kW Unit Input Power _____ kW Minimum Capacity % _____ % Total Heat Rejection _____ Tons Saturated Condensing Temperature _____ °F <u>COOLER</u> Cooler Fluid _____ Entering Fluid Temperature _____ Leaving Fluid Temperature _____ Flow Rate _____ Pressure Drop _____ Fouling Factor _____	<u>CONDENSER</u> Air-Cooled Model No.(s) Circuit #1 _____ Circuit #2 _____ See Drawing No.(s) _____ Entering Air Temperature _____ °F Total Fan Power Input _____ kW
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ELECTRICAL DATA

Power Supply to Unit _____ Volts _____ Ph _____ Hz	Control Circuit Fuse Amps _____ Amps
Power Supply to Control Circuit _____ Volts _____ Ph _____ Hz	Maximum Instantaneous Current Flow _____ Amps
Minimum Amps Circuit 1 _____ Amps	Minimum Amps Circuit 2 _____ Amps
Maximum Fuse Amps Circuit 1 _____ Amps	Maximum Fuse Amps Circuit 2 _____ Amps

OPTIONS

☐ _____ ☐ _____ ☐ _____ ☐ _____	☐ _____ ☐ _____ ☐ _____ ☐ _____
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CUT ALONG DOTTED LINE

CUT ALONG DOTTED LINE

CERTIFIED DIMENSION PRINT



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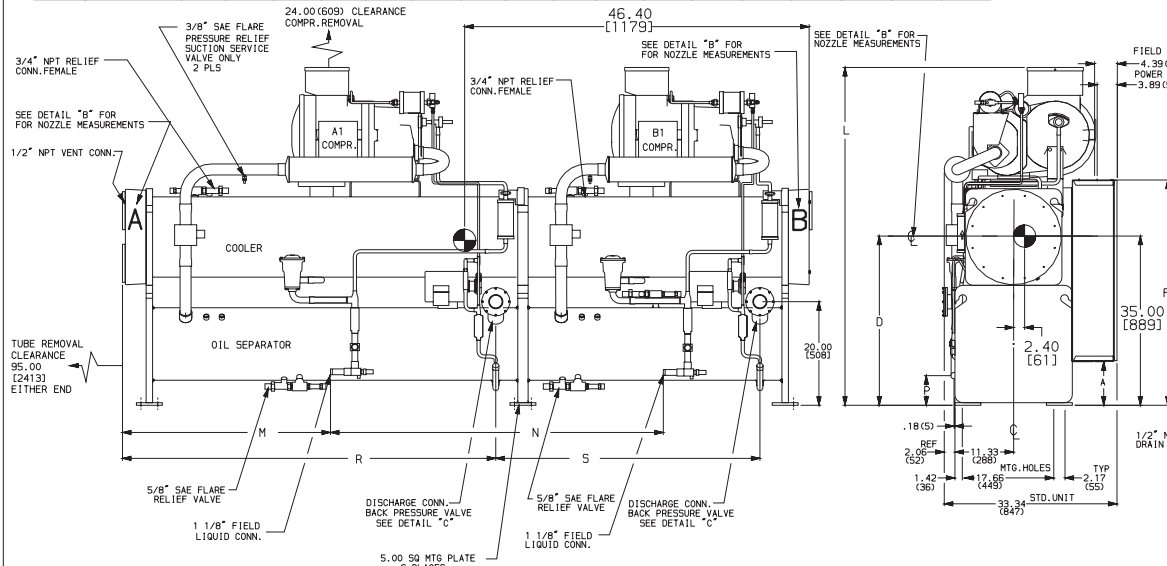
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30HXA

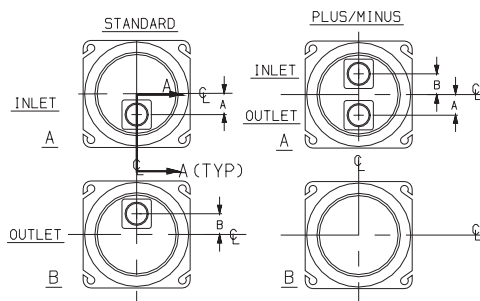
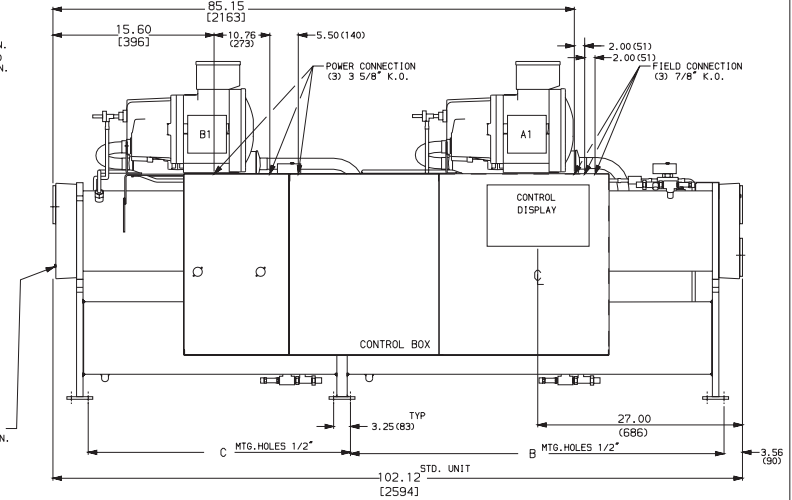
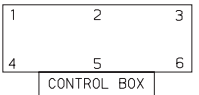
UNIT 30HXA	OPERATING WEIGHT lb (kg)	DIMENSIONS — in. (mm)												WGT. DISTRIBUTION AT EACH MTG. PLATE — lb (kg)					
		A	B	C	D	F	L	M	N	P	R	S	1	2	3	4	5	6	
076	4717 (2140)	8.48 (215)	45.87 (1165)	45.87 (1165)	32.50 (826)	43.50 (1109)	65.22 (1657)	13.93 (354)	59.48 (1511)	5.72 (145)	45.81 (1164)	46.25 (1175)	555 (252)	793 (360)	418 (190)	926 (420)	1326 (601)	699 (317)	
086	4744 (2152)	8.48 (215)	45.87 (1165)	45.87 (1165)	32.50 (826)	43.50 (1109)	65.22 (1657)	13.93 (354)	59.48 (1511)	5.72 (145)	45.81 (1164)	46.25 (1175)	555 (252)	798 (362)	418 (190)	928 (421)	1340 (608)	705 (320)	
096	4835 (2194)	8.48 (215)	54.12 (1375)	37.63 (956)	32.50 (826)	43.50 (1109)	65.22 (1657)	22.15 (563)	42.77 (1086)	5.72 (145)	54.06 (1373)	38.00 (965)	509 (231)	808 (367)	493 (224)	848 (385)	1350 (612)	827 (375)	
106	5151 (2337)	10.48 (266)	54.12 (1375)	37.63 (956)	33.50 (853)	45.50 (1156)	67.22 (1707)	22.15 (563)	42.77 (1086)	5.87 (149)	54.06 (1373)	38.00 (965)	555 (252)	869 (394)	541 (245)	896 (406)	1410 (640)	880 (399)	



NOTES:

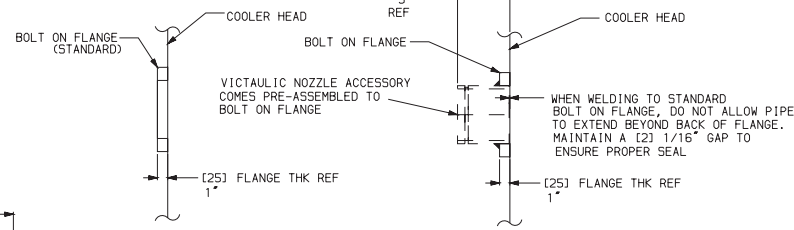
- Operating weight includes weight of water and refrigerant.
- Denotes center of gravity.
- Denotes accessory or factory-installed option.
- Dimensions are in inches (millimeters) and weights are in lb (kg).
- Recommended service clearance around machine — 36" (914.4).

WEIGHT DISTRIBUTION

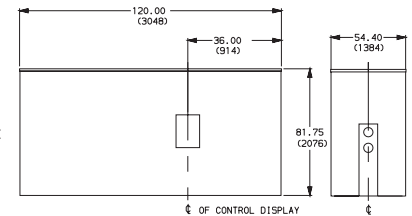
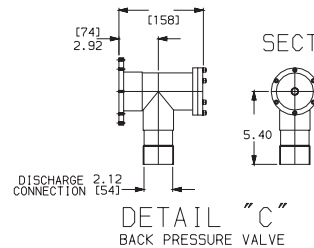


UNIT 30HXA		DIMENSIONS in. (mm)		NUMBER OF PASSES	CONNECTION SIZES
		A	B		
076,086,096	Std	4.68 (119)	4.68 (119)	3	4"
076,086,096	Minus	4.68 (119)	4.68 (119)	2	4"
076,086,096	Plus	4.68 (119)	4.68 (119)	4	4"
106	Std	5.14 (131)	5.14 (131)	3	5"
106	Minus	5.14 (131)	5.14 (131)	2	5"
106	Plus	5.14 (131)	5.14 (131)	4	5"

DETAIL "B"



ACCESSORY NOZZLE TYPICAL



LEAVE 36.00 (914) CLEARANCE AT SIDES OF SOUND ENCLOSURE FOR SERVICE. LEAVE POSTED CLEARANCE AT ENDS OF SOUND ENCLOSURE FOR TUBE REMOVAL.

UNIT WITH SOUND ENCLOSURE

(NOT TO SCALE)

DATE
6/23/98

SUPERSEDES
3/20/97

HERMETIC SCREW LIQUID CHILLING PACKAGE
30HXA 076,086,096,106

30HX509997

REV.
F

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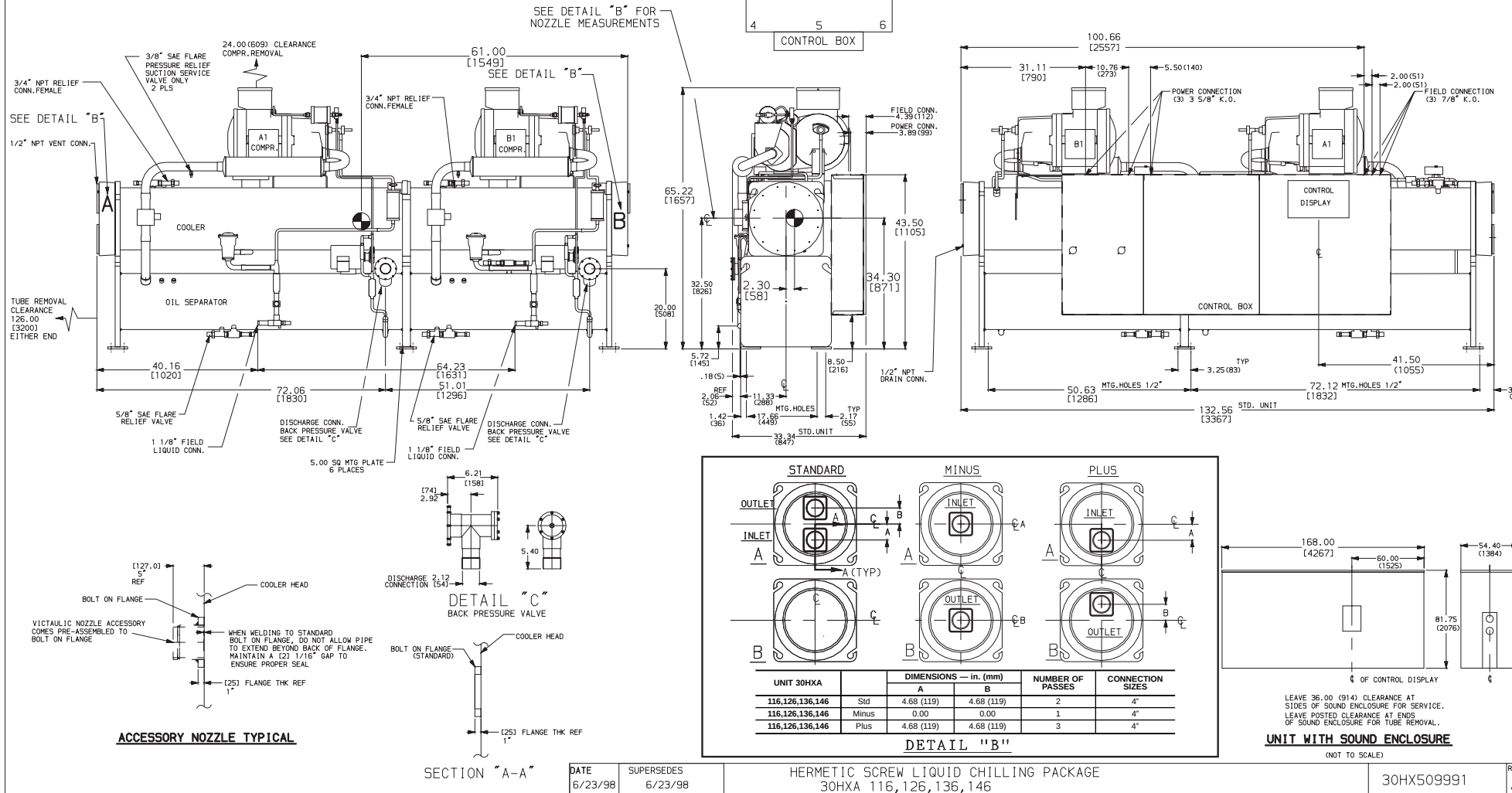
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30HXA

UNIT 30HXA	OPERATING WEIGHT lb (kg)	WGT. DISTRIBUTION AT EACH MTG. PLATE — lb (kg)					
		1	2	3	4	5	6
116	5163 (2342)	530 (240)	895 (406)	540 (245)	855 (388)	1456 (660)	887 (402)
126	5205 (2362)	540 (245)	905 (410)	541 (245)	864 (392)	1468 (666)	887 (402)
136	5309 (2408)	548 (249)	926 (420)	555 (252)	874 (396)	1498 (679)	908 (412)
146	5333 (2420)	551 (250)	930 (422)	555 (252)	883 (400)	1506 (683)	908 (412)

NOTES:

- Operating weight includes weight of water and refrigerant.
- Denotes center of gravity.
- Denotes accessory or factory-installed option.
- Dimensions are in inches (millimeters) and weights are in lb (kg).
- Recommended service clearance around machine — 36" (914.4).



DATE
6/23/98

SUPERSEDES
6/23/98

HERMETIC SCREW LIQUID CHILLING PACKAGE
30HXA 116,126,136,146

30HX509991

REV.
A

CUT ALONG DOTTED LINE

CUT ALONG DOTTED LINE

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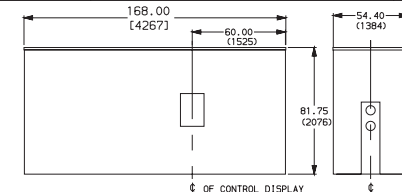
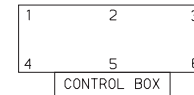
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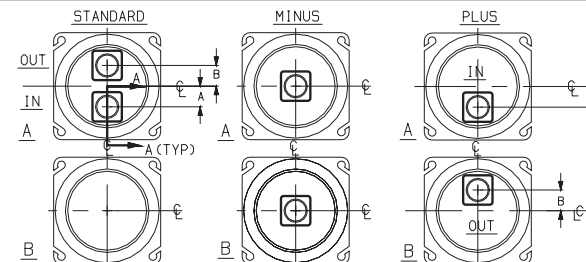
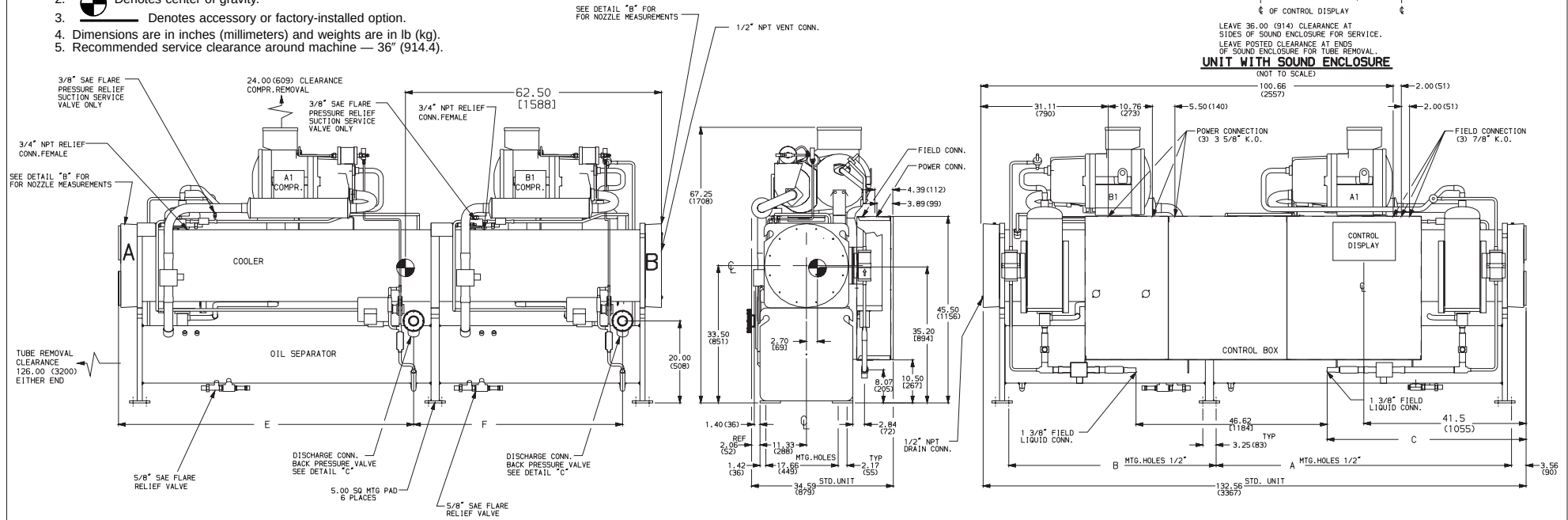
30HXA

UNIT 30HXA	OPERATING WEIGHT — lb (kg)	DIMENSIONS — in. (mm)						WGT. DISTRIBUTION AT EACH MTG. PLATE — lb (kg)					
		A	B	C	E	F		1	2	3	4	5	6
161	5752 (2610)	72.12 (1832)	50.63 (1286)	48.56 (1233)	72.06 (1830)	51.00 (1295)		560 (254)	965 (438)	598 (271)	954 (433)	1650 (748)	1025 (465)
171	5777 (2621)	61.37 (1559)	61.37 (1559)	43.25 (1099)	61.31 (1572)	61.75 (1568)		627 (284)	968 (439)	534 (242)	1072 (486)	1658 (752)	918 (416)
186	5946 (2698)	61.37 (1559)	61.37 (1559)	43.25 (1099)	61.31 (1572)	61.75 (1568)		648 (294)	1004 (455)	552 (114)	1110 (504)	1703 (772)	929 (426)

WEIGHT DISTRIBUTION

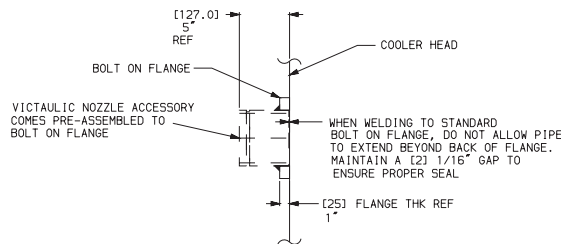


- NOTES:
- Operating weight includes weight of water and refrigerant.
 - Denotes center of gravity.
 - Denotes accessory or factory-installed option.
 - Dimensions are in inches (millimeters) and weights are in lb (kg).
 - Recommended service clearance around machine — 36" (914.4).

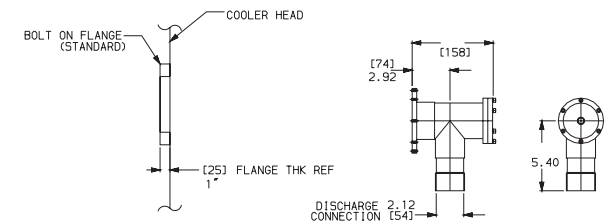


UNIT 30HXA		DIMENSIONS — in. (mm)		NUMBER OF PASSES	CONNECTION SIZES
		A	B		
161,171,186	Std	5.14 (131)	5.14 (131)	2	5"
161,171,186	Minus	0.00	0.00	1	5"
161,171,186	Plus	5.14 (131)	5.14 (131)	3	5"

DETAIL "B"



ACCESSORY NOZZLE TYPICAL



SECTION "A-A"

DETAIL "C"
BACK PRESSURE VALVE

DATE
7/13/98

SUPERSEDES
3/20/97

HERMETIC SCREW LIQUID CHILLING PACKAGE
30HXA161,171,186

30HX509998

REV.
E

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30HXA

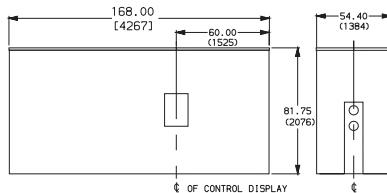
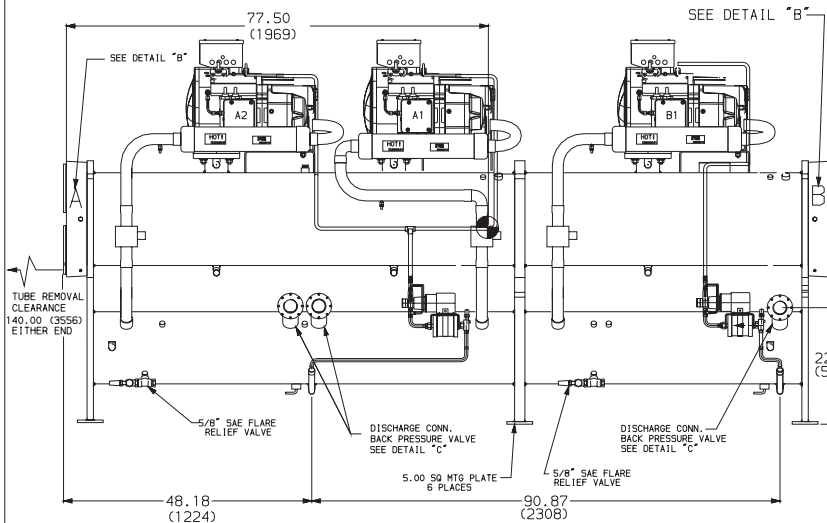
UNIT 30HXA	OPERATING WEIGHT — lb (kg)	WGT. DISTRIBUTION AT EACH MTG. PLATE — lb (kg)					
		1	2	3	4	5	6
206	7485 (3395)	671 (304)	1702 (772)	879 (399)	850 (385)	2216 (1005)	1167 (529)
246	7621 (3457)	681 (309)	1748 (793)	911 (413)	797 (362)	2276 (1032)	1209 (548)
261	7621 (3457)	681 (309)	1748 (793)	911 (413)	797 (362)	2276 (1032)	1209 (548)
271	7621 (3457)	681 (309)	1748 (793)	911 (413)	797 (362)	2276 (1032)	1209 (548)

NOTES:

- Operating weight includes weight of water and refrigerant.
- Denotes center of gravity.
- Denotes accessory or factory-installed option.
- Dimensions are in inches (millimeters) and weights are in lb (kg).
- Recommended service clearance around machine — 36" (914.4).

SEE DETAIL "B" FOR
NOZZLE MEASUREMENTS

SEE DETAIL "B"

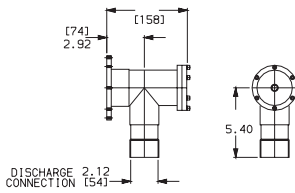
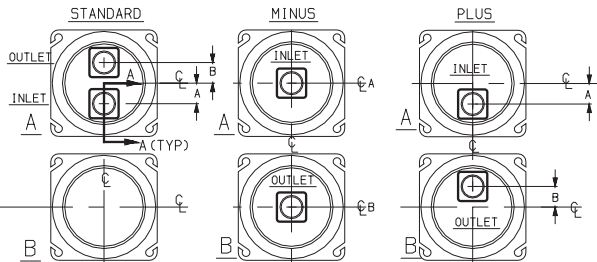
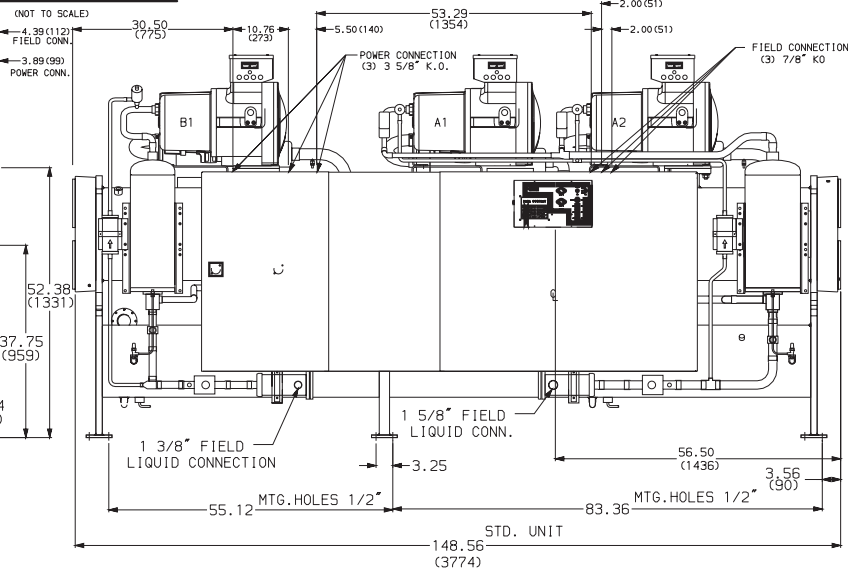


WEIGHT DISTRIBUTION

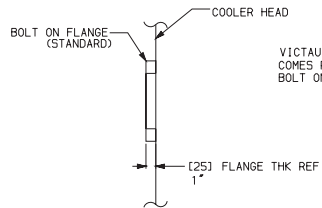
1	2	3
4	5	6

LEAVE 36.00 (914) CLEARANCE AT
SIDES OF SOUND ENCLOSURE FOR SERVICE.
LEAVE POSTED CLEARANCE AT ENDS
OF SOUND ENCLOSURE FOR TUBE REMOVAL.

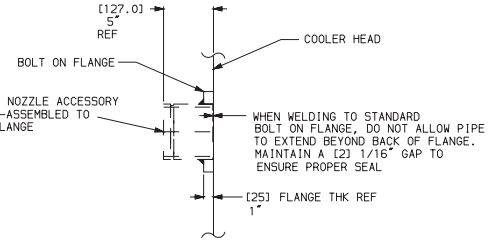
UNIT WITH SOUND ENCLOSURE



DETAIL "C"
BACK PRESSURE VALVE



SECTION "A-A"



ACCESSORY NOZZLE TYPICAL

UNIT 30HXA		DIMENSIONS — in. (mm)		NUMBER OF PASSES	CONNECTION SIZES
		A	B		
206,246,261,271	Std	5.53 (140)	5.53 (140)	2	5"
206,246,261,271	Minus	0.00	0.00	1	5"
206,246,261,271	Plus	5.53 (140)	5.53 (140)	3	5"

DETAIL "B"

DATE
03/04/99

SUPERSEDES
02/02/99

HERMETIC SCREW LIQUID CHILLING PACKAGE
30HXA 206,246,261,271

30HX509993

REV.
C

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FIELD WIRING DIAGRAM



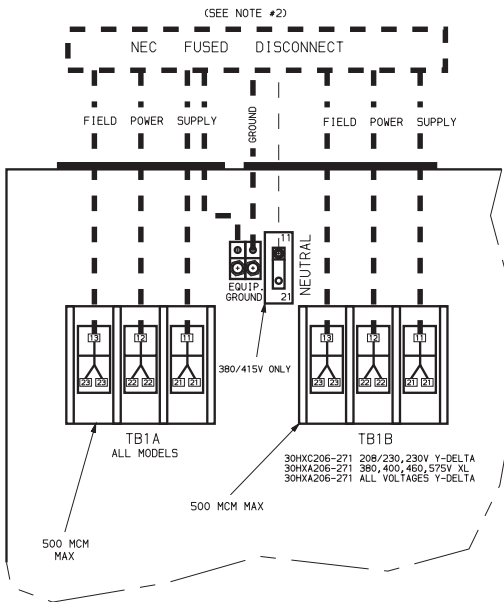
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STANDARD POWER



NON-FUSED DISCONNECT OPTION

