



THE HEART OF FRESHNESS

Water cooled (Marine version)

SHELL AND TUBE CONDENSERS STCA_B/CRF SERIES CROSS TABLE

CRC-0041-01

Design Safety

Bitzer ASME condensers are manufactured in accordance with the latest edition of ASME Code are designed for use in Air conditioning and refrigeration applications. CRN is available on majority of models. Consult factory for PED (CE) availability.



Design Features

- Refrigerants**
 - Suitable for use for (H)CFC / HFC / HFO refrigerants, including but not limited to: R22, R134a, R407C, R450A R404A, R507, R538, R407A, R448, and others. Consult factory regarding application of refrigerants not listed here within.
- Standard Maximum Operating Pressure/ Temperature**
 - Refrigerant side, 435 psi @ -20 to 200°F
 - Water side, 145 psi @ -20 to 200°F
- Tubes**
 - Internally & externally enhanced high-performance copper nickel tube
 - Refer to special options for alternate material
- Tubesheets**
 - Precisely machined from stainless steel
 - Internal grooves for premium sealing
 - Refer to special options for alternate material
- Heads**
 - Precisely machined from stainless steel
 - Deep pocket for minimum pressure drop and erosion
 - Optimum flow distribution
 - Detachable to allow mechanical cleaning
- Shells**
 - Steel ASME pipe or rolled shell sand blasted prior to assembly
- Connections**
 - Refrigerant side, steel IDS connections to fit copper tubing
 - Water side, steel G threads or ASME flange depending on the size
 - Safety and auxiliary connections on all models
- Accessories/Options**
 - Sightglass
 - Safety valve can be supplied upon request
- Special Versions & Options**
 - Alternate material for tube (copper nickel), Tubesheet (stainless steel/copper nickel) and head (stainless steel/cast bronze)
 - Higher/Lower pressure and temperature rating
 - Custom design for higher capacity
 - Additional drain and vent

Explanation of Model Number

S T C A 0 3 0 S X S - X X 2 F

Model designation

STCA = Shell and tube condenser

S T C A 0 3 0 S X S - X X 2 F

Nominal Capacity

S T C A 0 3 0 S X S - X X 2 F

Tube length configuration

S = Short
M = Middle
L = Long

S T C A 0 3 0 S X S - X X 2 F

Bracket & feet configuration

X = No feet
N = Bottom feet

S T C A 0 3 0 S X B - X X 2 F

Version

B = Marine version (CuNi tube)

S T C A 0 3 0 S X S - X X 2 F

Connection types

XX= Standard connections
XG= Addition of 1-1/4" rotalock sight glass

S T C A 0 3 0 S X S - X X 2 F

Pass number

2 = 2-pass
4 = 4-pass

S T C A 0 3 0 S X S - X X 2 F

Head configuration

F = Flat head



2-PASS MODEL		4-PASS MODEL	
BITZER US MODEL	ALFA LAVAL MODEL	BITZER US MODEL	ALFA LAVAL MODEL
STCA025SNB-XX2F	CRM162-5-2P,STW,FH	STCA025SNB-XX4F	CRM162-5-4P,STW,FH
STCA025MNB-XX2F	CRM162-6-2P,STW,FH	STCA025MNB-XX4F	CRM162-6-4P,STW,FH
STCA025LNB-XX2F	CRM162-7-2P,STW,FH	STCA025LNB-XX4F	CRM162-7-4P,STW,FH
STCA030SNB-XX2F	CRM163-5-2P,STW,FH	STCA030SNB-XX4F	CRM163-5-4P,STW,FH
STCA030MNB-XX2F	CRM163-6-2P,STW,FH	STCA030MNB-XX4F	CRM163-6-4P,STW,FH
STCA030LNB-XX2F	CRM163-7-2P,STW,FH	STCA030LNB-XX4F	CRM163-7-4P,STW,FH
STCA035SNB-XX2F	CRM164-5-2P,STW,FH	STCA035SNB-XX4F	CRM164-5-4P,STW,FH
STCA035MNB-XX2F	CRM164-6-2P,STW,FH	STCA035MNB-XX4F	CRM164-6-4P,STW,FH
STCA035LNB-XX2F	CRM164-7-2P,STW,FH	STCA035LNB-XX4F	CRM164-7-4P,STW,FH
STCA040SNB-XX2F	CRM211-5-2P,STW,FH	STCA040SNB-XX4F	CRM211-5-4P,STW,FH
STCA040MNB-XX2F	CRM211-6-2P,STW,FH	STCA040MNB-XX4F	CRM211-6-4P,STW,FH
STCA040LNB-XX2F	CRM211-7-2P,STW,FH	STCA040LNB-XX4F	CRM211-7-4P,STW,FH
STCA050SNB-XX2F	CRM212-5-2P,STW,FH	STCA050SNB-XX4F	CRM212-5-4P,STW,FH
STCA050MNB-XX2F	CRM212-6-2P,STW,FH	STCA050MNB-XX4F	CRM212-6-4P,STW,FH
STCA050LNB-XX2F	CRM212-7-2P,STW,FH	STCA050LNB-XX4F	CRM212-7-4P,STW,FH
STCA055SNB-XX2F	CRM213-5-2P,STW,FH	STCA055SNB-XX4F	CRM213-5-4P,STW,FH
STCA055MNB-XX2F	CRM213-6-2P,STW,FH	STCA055MNB-XX4F	CRM213-6-4P,STW,FH
STCA055LNB-XX2F	CRM213-7-2P,STW,FH	STCA055LNB-XX4F	CRM213-7-4P,STW,FH
STCA060SNB-XX2F	CRM214-5-2P,STW,FH	STCA060SNB-XX4F	CRM214-5-4P,STW,FH
STCA060MNB-XX2F	CRM214-6-2P,STW,FH	STCA060MNB-XX4F	CRM214-6-4P,STW,FH
STCA060LNB-XX2F	CRM214-7-2P,STW,FH	STCA060LNB-XX4F	CRM214-7-4P,STW,FH
STCA070SNB-XX2F	CRM271-5-2P,STW,FH	STCA070SNB-XX4F	CRM271-5-4P,STW,FH
STCA070MNB-XX2F	CRM271-6-2P,STW,FH	STCA070MNB-XX4F	CRM271-6-4P,STW,FH
STCA070LNB-XX2F	CRM271-7-2P,STW,FH	STCA070LNB-XX4F	CRM271-7-4P,STW,FH
STCA080SNB-XX2F	CRM272-5-2P,STW,FH	STCA080SNB-XX4F	CRM272-5-4P,STW,FH
STCA080MNB-XX2F	CRM272-6-2P,STW,FH	STCA080MNB-XX4F	CRM272-6-4P,STW,FH
STCA080LNB-XX2F	CRM272-7-2P,STW,FH	STCA080LNB-XX4F	CRM272-7-4P,STW,FH
STCA090SNB-XX2F	CRM273-5-2P,STW,FH	STCA090SNB-XX4F	CRM273-5-4P,STW,FH
STCA090MNB-XX2F	CRM273-6-2P,STW,FH	STCA090MNB-XX4F	CRM273-6-4P,STW,FH
STCA090LNB-XX2F	CRM273-7-2P,STW,FH	STCA090LNB-XX4F	CRM273-7-4P,STW,FH
STCA105SNB-XX2F	CRM274-5-2P,STW,FH	STCA105SNB-XX4F	CRM274-5-4P,STW,FH
STCA105MNB-XX2F	CRM274-6-2P,STW,FH	STCA105MNB-XX4F	CRM274-6-4P,STW,FH
STCA105LNB-XX2F	CRM274-7-2P,STW,FH	STCA105LNB-XX4F	CRM274-7-4P,STW,FH



2-PASS MODEL (continued)		2-PASS MODEL (continued)	
BITZER US MODEL	ALFA LAVAL MODEL	BITZER US MODEL	ALFA LAVAL MODEL
STCA125SNB-XX2F	CRM322-5-2P,STW,FH	STCA125SNB-XX4F	CRM322-5-4P,STW,FH
STCA125MNB-XX2F	CRM322-6-2P,STW,FH	STCA125MNB-XX4F	CRM322-6-4P,STW,FH
STCA125LNB-XX2F	CRM322-7-2P,STW,FH	STCA125LNB-XX4F	CRM322-7-4P,STW,FH
STCA140SNB-XX2F	CRM323-5-2P,STW,FH	STCA140SNB-XX4F	CRM323-5-4P,STW,FH
STCA140MNB-XX2F	CRM323-6-2P,STW,FH	STCA140MNB-XX4F	CRM323-6-4P,STW,FH
STCA140LNB-XX2F	CRM323-7-2P,STW,FH	STCA140LNB-XX4F	CRM323-7-4P,STW,FH
STCA160SNB-XX2F	CRM324-5-2P,STW,FH	STCA160SNB-XX4F	CRM324-5-4P,STW,FH
STCA160MNB-XX2F	CRM324-6-2P,STW,FH	STCA160MNB-XX4F	CRM324-6-4P,STW,FH
STCA160LNB-XX2F	CRM324-7-2P,STW,FH	STCA160LNB-XX4F	CRM324-7-4P,STW,FH
STCA180SNB-XX2F	CRM401-5-2P,STW,FH	STCA180SNB-XX4F	CRM401-5-4P,STW,FH
STCA180MNB-XX2F	CRM401-6-2P,STW,FH	STCA180MNB-XX4F	CRM401-6-4P,STW,FH
STCA180LNB-XX2F	CRM401-7-2P,STW,FH	STCA180LNB-XX4F	CRM401-7-4P,STW,FH
STCA200SNB-XX2F	CRM402-5-2P,STW,FH	STCA200SNB-XX4F	CRM402-5-4P,STW,FH
STCA200MNB-XX2F	CRM402-6-2P,STW,FH	STCA200MNB-XX4F	CRM402-6-4P,STW,FH
STCA200LNB-XX2F	CRM402-7-2P,STW,FH	STCA200LNB-XX4F	CRM402-7-4P,STW,FH
STCA220SNB-XX2F	CRM403-5-2P,STW,FH	STCA220SNB-XX4F	CRM403-5-4P,STW,FH
STCA220MNB-XX2F	CRM403-6-2P,STW,FH	STCA220MNB-XX4F	CRM403-6-4P,STW,FH
STCA220LNB-XX2F	CRM403-7-2P,STW,FH	STCA220LNB-XX4F	CRM403-7-4P,STW,FH
STCA250SNB-XX2F	CRM404-5-2P,STW,FH	STCA250SNB-XX4F	CRM404-5-4P,STW,FH
STCA250MNB-XX2F	CRM404-6-2P,STW,FH	STCA250MNB-XX4F	CRM404-6-4P,STW,FH
STCA250LNB-XX2F	CRM404-7-2P,STW,FH	STCA250LNB-XX4F	CRM404-7-4P,STW,FH
STCA275SNB-XX2F	CRM452-5-2P,STW,FH	STCA275SNB-XX4F	CRM452-5-4P,STW,FH
STCA275MNB-XX2F	CRM452-6-2P,STW,FH	STCA275MNB-XX4F	CRM452-6-4P,STW,FH
STCA275LNB-XX2F	CRM452-7-2P,STW,FH	STCA275LNB-XX4F	CRM452-7-4P,STW,FH
STCA295SNB-XX2F	CRM453-5-2P,STW,FH	STCA295SNB-XX4F	CRM453-5-4P,STW,FH
STCA295MNB-XX2F	CRM453-6-2P,STW,FH	STCA295MNB-XX4F	CRM453-6-4P,STW,FH
STCA295LNB-XX2F	CRM453-7-2P,STW,FH	STCA295LNB-XX4F	CRM453-7-4P,STW,FH
STCA320SNB-XX2F	CRM454-5-2P,STW,FH	STCA320SNB-XX4F	CRM454-5-4P,STW,FH
STCA320MNB-XX2F	CRM454-6-2P,STW,FH	STCA320MNB-XX4F	CRM454-6-4P,STW,FH
STCA320LNB-XX2F	CRM454-7-2P,STW,FH	STCA320LNB-XX4F	CRM454-7-4P,STW,FH

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