

DELIVER QUALITY!



IMS HATCH MOUNT BLAST FREEZERS

"The buyer's inspector stated that the blast frozen fish in my hold were the finest fish he had seen all year."

—Dave Fee
FIV Star Polaris



SMOKIN' COLD!

**DROP IT IN.
PLUG IT IN.
FREEZE FISH.**



"Never bought fish this cold,"
said the Japanese

broker when purchasing -40°F blast frozen albacore from the **FIV Evolution**. Owner and skipper **John McMillan** equipped his tanked vessel with an IMS Hatch Mount Blast Freezer for easy seasonal conversion to the albacore fishery.



**CONTACT IMS TODAY—
WE HAVE THE SYSTEM
YOU NEED!**




Integrated Marine Systems Inc.

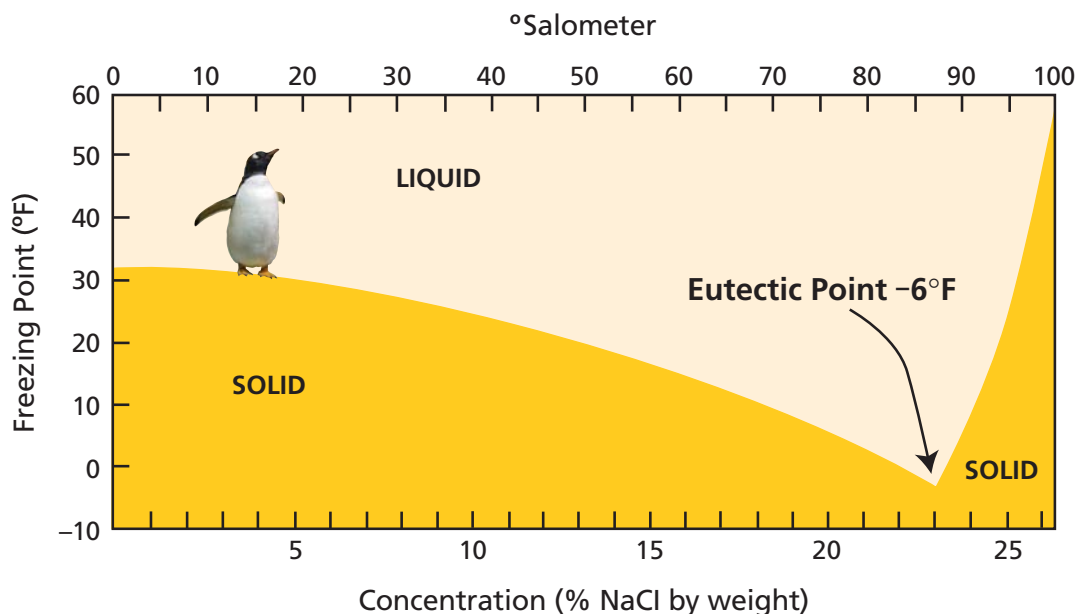
"Making Refrigeration Simple"

P.O. Box 2028, 775 Haines Place, Port Townsend, WA 98368
FAX 360.385.3410 info@IMSpacific.com www.IMSpacific.com

800.999.0765 360.385.0077

Getting your salt content right for brine freezing is critical for quality product and trouble-free operation ...

FREEZING POINT OF SALT BRINE MIXTURES



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 Additional information: <http://seagrant.oregonstate.edu/sgps/onlinepubs/onlinepubs/h99002.pdf>

SODIUM CHLORIDE BRINE TABLES FOR BRINE AT 60°F

| Salometer Degrees | Freezing Point Deg. F* | Percent Sodium Chloride by Wt. | Pounds Salt Per Gallon of Water | Pounds per Gallon of Brine | | Gallon Water Per Gallon of Brine | Specific Gravity | Salometer Degrees |
|-------------------|------------------------|--------------------------------|---------------------------------|----------------------------|-------|----------------------------------|------------------|-------------------|
| | | | | NaCl | Water | | | |
| 62 | +9.9 | 16.365 | 1.629 | 1.529 | 7.815 | .938 | 1.122 | 62 |
| 64 | +8.9 | 16.893 | 1.692 | 1.584 | 7.794 | .936 | 1.126 | 64 |
| 66 | +7.9 | 17.421 | 1.756 | 1.639 | 7.772 | .933 | 1.130 | 66 |
| 68 | +6.8 | 17.949 | 1.822 | 1.697 | 7.755 | .931 | 1.135 | 68 |
| 70 | +5.7 | 18.477 | 1.888 | 1.753 | 7.733 | .929 | 1.139 | 70 |
| 72 | +4.6 | 19.004 | 1.954 | 1.809 | 7.710 | .926 | 1.143 | 72 |
| 74 | +3.4 | 19.532 | 2.022 | 1.866 | 7.686 | .923 | 1.147 | 74 |
| 76 | +2.2 | 20.060 | 2.091 | 1.925 | 7.669 | .921 | 1.152 | 76 |
| 78 | +1.0 | 20.588 | 2.159 | 1.982 | 7.645 | .918 | 1.156 | 78 |
| 80 | -.4 | 21.116 | 2.229 | 2.040 | 7.620 | .915 | 1.160 | 80 |
| 82 | -1.6 | 21.644 | 2.300 | 2.098 | 7.596 | .912 | 1.164 | 82 |
| 84 | -3.0 | 22.172 | 2.372 | 2.158 | 7.577 | .910 | 1.169 | 84 |
| 86 | -4.4 | 22.700 | 2.446 | 2.218 | 7.551 | .907 | 1.173 | 86 |
| 88 | -5.8 | 23.228 | 2.520 | 2.279 | 7.531 | .904 | 1.178 | 88 |
| 88.3 ¹ | -6.0 ¹ | 23.307 | 2.531 | 2.288 | 7.528 | .904 | 1.179 | 88.3 ¹ |
| 90 | -1.1 | 23.756 | 2.594 | 2.338 | 7.506 | .901 | 1.182 | 90 |
| 92 | +4.8 | 24.283 | 2.670 | 2.398 | 7.479 | .898 | 1.186 | 92 |
| 94 | +11.1 | 24.811 | 2.745 | 2.459 | 7.460 | .896 | 1.191 | 94 |
| 95 | +14.4 | 25.075 | 2.787 | 2.491 | 7.444 | .894 | 1.193 | 95 |
| 96 | +18.0 | 25.339 | 2.827 | 2.522 | 7.430 | .892 | 1.195 | 96 |
| 97 | +21.6 | 25.603 | 2.865 | 2.552 | 7.417 | .891 | 1.197 | 97 |
| 98 | +25.5 | 25.867 | 2.906 | 2.585 | 7.409 | .890 | 1.200 | 98 |

*Approximate salinity range for seawater.

¹ Eutectic point. For brines stronger than eutectic, the temperatures shown are the saturation temperatures for sodium chloride dihydrate. Brines stronger than eutectic deposit excess sodium chloride as dihydrate when cooled, and freeze at eutectic.