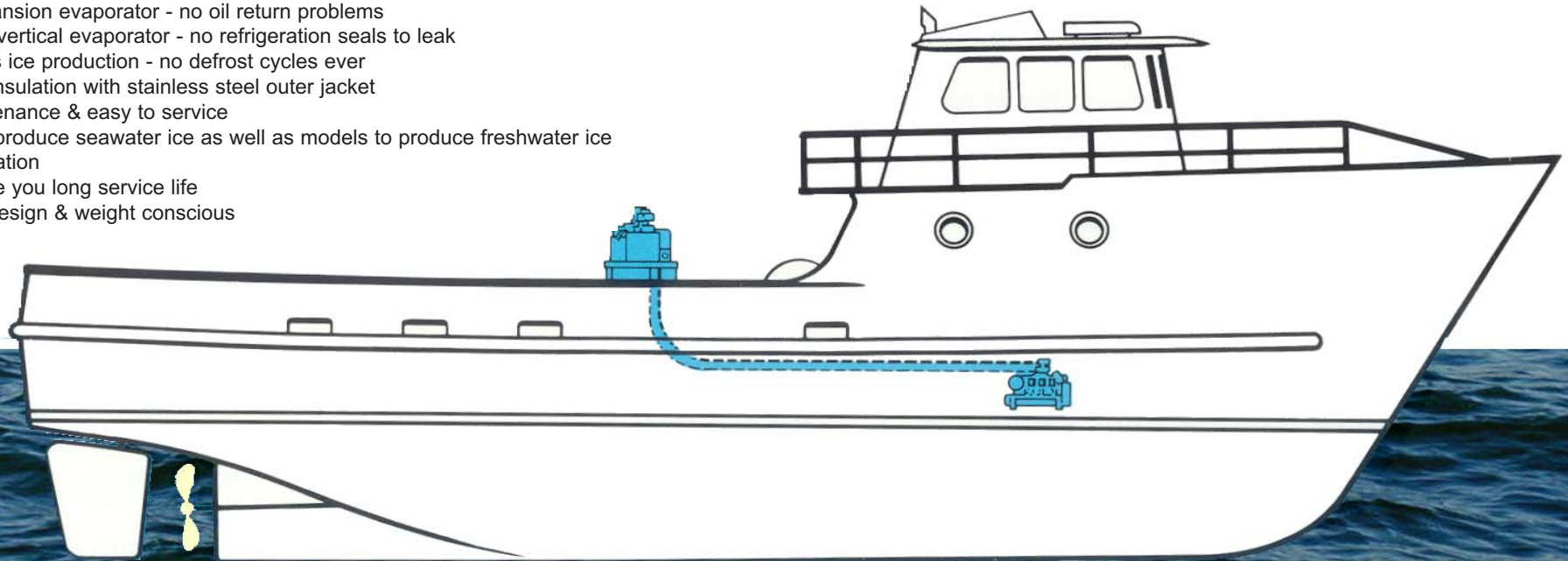


Making Seawater or Freshwater Ice Under Way

As an experienced fisherman you already know that "Flake Ice" chills your catch better because of its excellent surface contact. Flake ice protects your catch from bruises and injury because there are no sharp edges. Howe Shipboard ice flakers are designed for constant offshore duty. We have models designed for seawater ice as well as models to produce freshwater ice. Enjoy the economy and convenience of making ice while at sea. Consider a HOWE Ice Flaker and extend your fishing range.

Compare these HOWE features:

- Weatherproof TEFC Drive motors
- Weatherproof control panels & cabling
- Non-corroding materials no electrolysis problems
- Direct expansion evaporator - no oil return problems
- Stationary vertical evaporator - no refrigeration seals to leak
- Continuous ice production - no defrost cycles ever
- Urethane insulation with stainless steel outer jacket
- Low maintenance & easy to service
- Models to produce seawater ice as well as models to produce freshwater ice
- Quiet operation
- Built to give you long service life
- Compact design & weight conscious



Distributed By:

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Remote seawater ice flaker model 3000-RLS-404-230-P-SW designed for shipboard operation. Shipboard flakers now feature a remote sump.

Electric control panel is shipped loose, to be field mounted & wired. Includes drive motor contactor, solid state overload device for drive motor & off delay circuit for optimum protection.

Semi Hermetic water cooled R-404A condensing units for shipboard installation. Condenser fitted with Cupro-nickel tubes for seawater.

ICE FLAKERS FOR SHIPBOARD APPLICATIONS

Style	Model Number	Nominal (1) Capacity Tons Ice per 24 hr.	Nominal (2) Refrigeration Capacity BTU/HR	Drive Motor	Water Pump	Dimensions - Inches (3)			Shipping Weight Lbs.
						Depth	Width	Height	
Seawater Remote	2000-RLS-404-230-P-SB	1.0	17,000	1/3	1/15	28	32 1/2	34	525
	3000-RLS-404-230-P-SB	1.5	25,500	1/3	1/15	28	32 1/2	38 1/2	550
	4000-RLS-404-230-P-SB	2.0	34,000	1/3	1/15	32	36	40 1/2	680
	6000-RLS-404-230-P-SB	3.0	51,000	1/2	1/15	33	36	50	820
	51-RLS-404-230-P-SB	5.0	85,000	1	1/6	52	57	58	1950
Freshwater Remote	2000-RL-404-230-P-SB	1.0	17,050	1/3	1/15	28	32 1/2	34	525
	3000-RL-404-230-P-SB	1.5	25,575	1/3	1/15	28	32 1/2	38 1/2	550
	4000-RL-404-230-P-SB	2.0	34,100	1/3	1/15	32	36	40 1/2	680
	6000-RL-404-230-P-SB	3.0	51,150	1/2	1/15	33	36	50	820
	51-RL-404-230-P-SB	5.0	90,000	1	1/6	52	57	58	1950
Condensing Unit Seawater cooled				Condenser (4) Water GPM	Cond. Water Pipe size				
Seawater	MD2000-SW-R404A-1			5	1 1/4	42 1/2	30 3/8	39 1/4	415
	MD3000-SW-R404A-1			7	1 1/4	55 1/2	35 3/8	41 1/2	465
	MD4000-SW-R404A-1			10	1 1/4	55 1/2	35 3/8	41 1/2	715
	MD6000-SW-R404A-1			14	1 1/2	55 1/2	35 3/8	41 1/2	780
	MD51-SW-R404A-1 (5)			14	1 1/2	55 1/2	35 3/8	41 1/2	780
Freshwater	MD2000-FW-R404A-1			5	3/4	38 3/8	26 3/4	36 3/4	325
	MD3000-FW-R404A-1			7	3/4	38 3/8	26 3/4	36 3/4	340
	MD4000-FW-R404A-1			10	1 1/4	55 1/2	35 3/8	41 1/2	415
	MD6000-FW-R404A-1			14	1 1/2	55 1/2	35 3/8	41 1/2	465
	MD51-FW-R404A-1			14	1 1/2	55 1/2	35 3/8	41 1/2	780

- NOTES:**
- (1) Nominal capacity based on 70°F (21.1°C) seawater temperature.
 - (2) All seawater ice flakers **must** be operated at -30°F (-34.3°C) or lower evaporating temperature which corresponds to 9.9 PSIG, R-404A. Pressure to be measured at evaporator suction outlet. Select R-404A compressor to deliver required capacity at -35°F (-37°C) 7PSIG suction pressure to allow for line losses.
 - (3) Dimensions and weights are approximate and are not to be used for construction. Consult HOWE engineering department for exact dimensions.
 - (4) Approximate condenser water flow rate is based on 70°F seawater.
 - (5) MD51-SW-R404A-1 uses (2) MD6000-SW-R404A-1 condensing units parallel piped. Weights & dimensions are each.

HOWE manufactures shipboard ice flakers in 5 sizes, 1 ton, 1-1/2 tons, 2 tons, 3 tons & 5 tons of ice per 24 hours. These units are available in two styles, remote or split systems, for freshwater, or seawater ice. Remote units are intended to hook up to YOUR refrigeration system, the split systems features Semi Hermetic compressors with Cupro-nickel tube water-cooled condensers. Ice flakers are epoxy coated, piped, wired and tested at the Howe Plant.



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