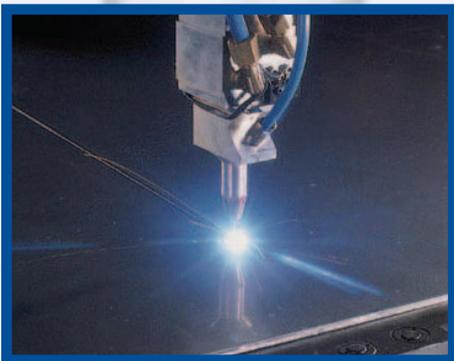


# FALLING FILM CHILLERS



# OMEGA

HEAT TRANSFER TECHNOLOGY

# FALLING FILM CHILLERS



## Filming Technology

The Omega Falling Film Chiller is designed for process cooling applications of all kinds. The rapid fluid cooling ability of filming technology allows fluids to be quickly cooled to temperatures near their freezing points. The Omega chiller is perfect for fluid cooling applications where product particulates might be present.

## Split Cabinet Design

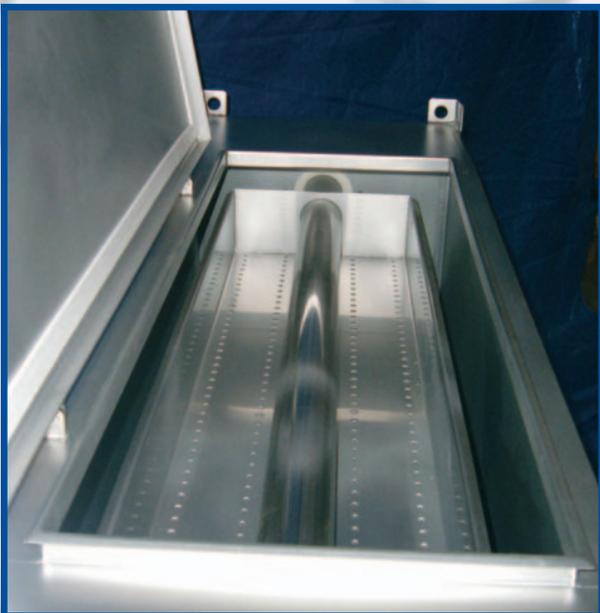
The Omega Chiller utilizes a two piece construction with a separate upper cabinet and lower fluid tank. This unique design allows customers the versatility of direct attachment designs. All Omega chillers and tanks are constructed of stainless steel and other FDA approved materials.

## Distribution System

Omega has developed an innovative distribution system that allows optimum filming of fluids over the evaporator plates. Integrated into this system is an overflow feature, allowing excess fluids to be bypassed through the chiller without disturbing the filming process.

## Clean Ability

All distribution systems come equipped with a removable plug for flushing large debris from the fluid pan.



## Laser Welded Plates

All Omega chillers come with high efficiency evaporator banks constructed with CNC *Laser Welded* plate technology. The CNC precision of *Laser Welding* has two major advantages over conventional resistance welding; 1) **Versatility** – Our CNC welder allows us to design our plates to best suit their application with no restraints on creativity, 2) **Consistency** – Programmed CNC *Laser Welding* insures that each plate is welded identical to the next, this provides optimal refrigerant distribution for achieving even performance within the plate bank.



## Manifolding

All manifolding is completed inside of the upper chiller. A single liquid and suction connection are located on the front of the upper chiller cabinet. Manifolding is available for DX, flooded, recirculated, and glycol applications. All evaporator banks are designed and built to meet ASHRAE 15 Standards.

## Accessibility

The Omega chiller design allows the interior components to be easily cleaned, with access doors located on top and in rear of cabinet. A removable distribution pan gives complete access to plate bank for future plate additions.



# TECHNICAL INFORMATION

## STANDARD UPPER CABINET SIZES

The following covers overall dimensions, weights, plate sizes, and capacities for standard upper cabinets. Cabinet dimensions given represent extreme measurements of cabinets. The dimensions below do not include processing piping.

PLATE SIZE	CABINET PLATE CAPACITY		CABINET DIMENSIONS (Inches)			CABINET WEIGHT (lbs.)
	MIN.	MAX.	WIDTH	LENGTH	HEIGHT	
3 X 5	1	2	12	72 5/8	46 1/8	235
3 X 5	2	4	25 1/8	72 3/4	52	306
3 X 5	2	8	37 1/8	72 3/4	52	371
4 X 8	2	8	37 1/8	111 7/8	67 5/8	598
4 X 8	2	12	49 1/8	111 7/8	67 5/8	681
4 X 8	4	16	68 1/2	111 7/8	67 5/8	1133
4 X 8	4	24	92 1/2	111 7/8	67 5/8	1348

All cabinets and tanks are constructed of 304s/s with 2B or glass bead finish, other material types and finishes are optional. For applications feeding two separate processes, divided cabinets and tanks are available.

## STANDARD LOWER TANK SIZES

The following charts contain the dimensional size and capacities of standards size tanks.

TANK CAPACITIES								
PLATE SIZE	PLATE CAPACITY		DIMENSIONS			EMPTY WEIGHT (LBS.)	FLUID VOLUME (GAL.)	FULL WEIGHT (LBS.)
	MIN	MAX	WIDTH	LENGTH	HEIGHT			
3 X 5	2	4	25 7/8"	73 7/16"	37 3/4"	418	160	1,753
3 X 5	2	8	37 7/8"	73 7/16"	37 3/4"	482	240	2,547
4 X 8	2	8	37 7/8"	112"	39"	792	370	3,881
4 X 8	2	12	49 7/8"	112"	39"	904	500	5,116

**A complete falling film chiller manual with technical information and drawings is available on our website.**



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