

# REFRIGERATION PRODUCTS



**MUELLER**<sup>®</sup>  
REFRIGERATION PRODUCTS

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- Falling Film Chillers
- Tankless Falling Film Chillers
- Packaged Water Chillers
- Quad-Plate Chillers
- Bakery Chillers
- Condensing Units
- Fre-Heater®
- Brazed-Plate Heat Exchangers
- Accu-Therm® Semi-Welded Heat Exchangers



*We have cool products for all  
your refrigeration needs!*

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# MUELLER 3 X 5 FALLING FILM CHILLER

Mueller's 3 x 5 falling film chiller reduces chilling time, increases production, and brings a faster return on your investment.

Distribution pans are available with extra-low, low, and high flow rates, based on chilled water usage. Extra-low flow rates range from 4 to 10 gpm, low flow rates range from 8 to 15 gpm, and high flow rates range from 16 to 30 gpm (per evaporator).

## Benefits

- Easy to clean and inspect with virtually no downtime for maintenance.
- Mueller's patented Temp-Plate® design eliminates potential chiller freeze-up.
- Accepts incoming fluid temperatures in excess of 80°F without the need for a secondary heat exchanger.



3 X 5 CHILLER SIZING CHART						
Cabinet Size	No. of Plates		Dimensions L x W x H (in)	Maximum Shipping Weight (lbs)	Tank Capacity (gal)	Distribution Pan Connection Size
	Minimum	Maximum				
N	2	8	68 <sup>1</sup> / <sub>2</sub> x 39 <sup>1</sup> / <sub>8</sub> x 77 <sup>3</sup> / <sub>4</sub>	1,520	192	2" or 3"
O	2	8	68 <sup>1</sup> / <sub>2</sub> x 39 <sup>1</sup> / <sub>8</sub> x 99 <sup>1</sup> / <sub>4</sub>	1,720	400	2" or 3"

### Notes:

- Refrigerant inlet connection size per plate is 1<sup>1</sup>/<sub>8</sub>" tube and the outlet size is 1<sup>1</sup>/<sub>2</sub>" tube.
- Maximum weight is based on the maximum number of plates that a chiller will hold.
- Low flow/extra-low flow distribution pan connection is 2".
- High flow distribution pan connection is 3".

# MUELLER 4 X 8 FALLING FILM CHILLER



The 4 x 8 falling film chiller's fully enclosed design eliminates product contamination.

The Mueller 4 x 8 enclosed-type falling film chiller is fully enclosed to ensure your product is free from airborne particles. The unit is easily accessible through gasketed doors and is specifically designed for large-capacity chilling applications.

Distribution pans are available in extra-low, low, and high flow rates, based on chilled water usage. Extra-low flow rates range from 6 to 16 gpm, low flow rates range from 13 to 24 gpm, and high flow rates range from 25 to 48 gpm (per evaporator).

**4 X 8 CHILLER SIZING CHART**

Cabinet Size	No. of Plates		Dimensions L x W x H (in)	Maximum Shipping Weight (lbs)	Tank Capacity (gal)	Distribution Pan Connection Size
	Minimum	Maximum				
J	2	8	104 <sup>1</sup> / <sub>2</sub> x 39 <sup>1</sup> / <sub>8</sub> x 90 <sup>3</sup> / <sub>4</sub>	2,735	361	4" or 6"
K	2	16	104 <sup>1</sup> / <sub>2</sub> x 72 <sup>3</sup> / <sub>8</sub> x 90 <sup>3</sup> / <sub>4</sub>	5,220	706	(2) 4" or 6"
L	2	24	104 <sup>1</sup> / <sub>2</sub> x 105 <sup>7</sup> / <sub>8</sub> x 90 <sup>3</sup> / <sub>4</sub>	7,705	1,052	(3) 4" or 6"
M	2	32	104 <sup>1</sup> / <sub>2</sub> x 139 x 90 <sup>3</sup> / <sub>4</sub>	10,190	1,397	(4) 4" or 6"

**Notes:**

- Refrigerant inlet connection size per plate is 1<sup>1</sup>/<sub>8</sub>" tube and the outlet size is 2" pipe.
- Maximum weight is based on the maximum number of plates that a chiller will hold.
- Low flow and extra-low flow distribution pans have a 4" connection and high flow pans have a 6" connection.

# TANKLESS FALLING FILM CHILLER

**Versatility to match your specific storage needs.**

Mueller's tankless chiller is designed for applications where it is necessary to place the chiller over the top of an existing tank.

Tankless falling film chillers are available with either open- or enclosed-type cabinets.

Distribution pans are available in extra-low, low, and high flow.

Units are available in both 3 x 5 and 4 x 8 evaporators from 4- to 24-plate cabinets.



**TANKLESS CHILLER SIZING CHART**

Cabinet Size	L x W x H (in)	Weight with Plates (lbs)	Refrigeration Inlet*	Connection Size Outlet*	Water Pan Connection Size
4 - 3 x 5	70 x 27 x 47	—	1 <sup>1</sup> / <sub>8</sub> " Tube	1 <sup>1</sup> / <sub>2</sub> " Tube	2" or 3" MPT
8 - 3 x 5	70 x 43 x 47	990	1 <sup>1</sup> / <sub>8</sub> " Tube	1 <sup>1</sup> / <sub>2</sub> " Tube	2" or 3" MPT
4 - 4 x 8	108 x 29 x 62	—	1 <sup>1</sup> / <sub>8</sub> " Tube	2" Pipe	4" or 6" MPT
8 - 4 x 8	108 x 43 x 62	1,550	1 <sup>1</sup> / <sub>8</sub> " Tube	2" Pipe	4" or 6" MPT
16 - 4 x 8	108 x 67 x 62	2,980	1 <sup>1</sup> / <sub>8</sub> " Tube	2" Pipe	(2) 4" or 6" MPT
24 - 4 x 8	108 x 104 x 62	4,220	1 <sup>1</sup> / <sub>8</sub> " Tube	2" Pipe	(3) 4" or 6" MPT

Note:

\*Inlet and outlet connection sizes are per plate connection sizes.

# PACKAGED WATER CHILLER

## Standard Features

- Stainless steel brazed-plate evaporator with 1/2" insulation, secured in a steel bracket.
- Hermetic compressor with crankcase heater.
- Direct-drive condenser fan motor.
- Rust-resistant, high CFM aluminum condenser fan blade.
- Condenser(s): copper tube/aluminum fin.
- Suction accumulator.
- Water flow switch.
- Hot gas bypass capacity control.
- On/Off switch for control circuit operation.
- Manual compressor lead lag switch (dual circuit units).
- 24v control transformer.
- Return fluid sensing thermostat.
- High-pressure refrigerant control.
- Low-pressure refrigerant control with time delay.
- LED 24v thermometers on water inlet/outlet.
- Liquid line drier, sight glass, solenoid, TEV.
- Compressor motor contactor.
- Compressor and control circuit fusing.
- Compressor and hot gas valve time delays.
- "Hard Start" kit (single-phase units only).
- Painted galvanized steel sheet metal cabinet.
- 1/2" insulation on all water and refrigerant lines.
- Full refrigerant charge from factory.

## Available Options

- Low water flow indicator with dry contacts.
- Compressor run indicator.
- Power on indicator.
- Fault indicator with dry contacts.
- High temp indicator with dry contacts.
- Casters (factory mounted).
- Water temp freeze thermostat.
- Fused disconnect.
- Fan cycle control (+40°F) for 90S, 120S, and 240D units only.
- Variable fan speed control (+20°F).
- Flooded condenser with receiver/head pressure control (-20°F).
- Factory-installed heat tape freeze protection, thermostatically controlled.
- Special piping for de-ionized and reverse osmosis.
- Phase monitor.
- "Gold" finned condenser coil (coastal protection).
- Semi-hermetic compressor.
- Shell-and-tube chiller barrel.
- Water flow meter.
- Refrigerant suction/discharge gauge set.
- Fused stainless steel system process pump.
- Fused stainless steel system recirculation pump.
- Stainless steel storage tank with 1/2" insulation.
- Water-cooled coaxial steel/copper tube condenser.



*Mueller packaged chillers can be utilized for commercial, industrial, medical, and food process cooling.*

# QUAD-PLATE CHILLER

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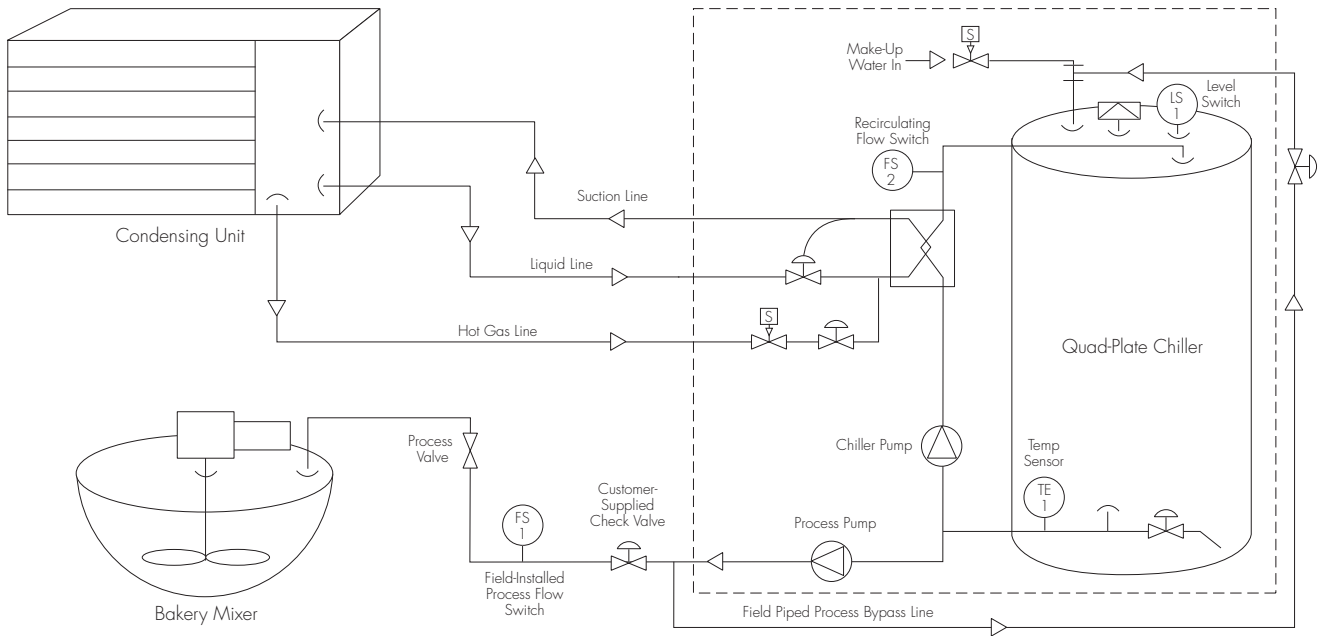
Providing automatic water temperature control for the modern baking industry.

## Standard Features

- Outlet temperatures down to 34°F.
- Provides up to 288 gallons/2,400 lbs. of chilled water per hour.
- 120-gallon storage capacity.
- Batch draw-off flow rates to 20 gallons per minute.
- Inlet temperatures up to 80°F.
- Process and recirculation pump standard.
- 5 to 15 hp remote condensing units available.
- Adjustable digital temperature control with °F or °C display.
- ETL-listed.



# QUAD PLATE CHILLER



## PERFORMANCE SPECIFICATIONS

Model No.	Batches Per Hour	Gal/lb Per Batch	Inlet Temp. (°F)	Outlet Temp. (°F)	Draw Off Flow Rate (gpm)	Refill Flow Rate (gpm)	HP	Control Voltage	Condensing Unit Voltage	Storage Tank Capacity (gal)
QPPK-005	4	28/234	70	34	20	20	5	208-230/60/1	208-230/60/1	120
QPPK-008	4	42/350	70	34	20	20	7.5	208-230/60/1	208-230/60/3	120
QPPK-008	8	21/175	70	34	20	20	7.5	208-230/60/1	208-230/60/3	120
QPPK-010	4	48/400	70	34	20	20	10	208-230/60/1	208-230/60/3	120
QPPK-010	8	24/200	70	34	20	20	10	208-230/60/1	208-230/60/3	120
QPPK-015	4	72/600	70	34	20	20	15	208-230/60/1	208-230/60/3	120
QPPK-015	8	36/300	70	34	20	20	15	208-230/60/1	208-230/60/3	120

## TECHNICAL SPECIFICATIONS - CHILLER SKID

Model	Length (in)	Width (in)	Height (in)	Approx. Shipping Wt. (lb)
QPPK-005	70	51	74	1,720
QPPK-008	70	51	74	1,825
QPPK-010	70	51	74	1,930
QPPK-015	70	51	74	2,035

## TECHNICAL SPECIFICATIONS - CONDENSING UNIT

Model	Unit Model No.	Length (in)	Width (in)	Height (in)	Approx. Shipping Wt. (lb)
QPPK-005	A51-OESE	40	30.5	31.5	750
QPPK-008	A753-OESE-A	121	40.25	42.5	860
QPPK-010	A103-OESE-A	121	40.25	42.5	900
QPPK-015	COL-1500H	121	40.25	40.5	1,440

**Note:**

All of the above units consist of a quad plate heat exchanger, storage tank, on/off and temperature controls, chiller circulation pump, building supply pump, water piping, and refrigeration controls — all pre-piped, wired, and mounted on a skid. The condensing units for the above chillers are all shipped loose for outdoor installation. The refrigeration piping and refrigerant charge must be supplied by others.

# BAKERY CHILLER

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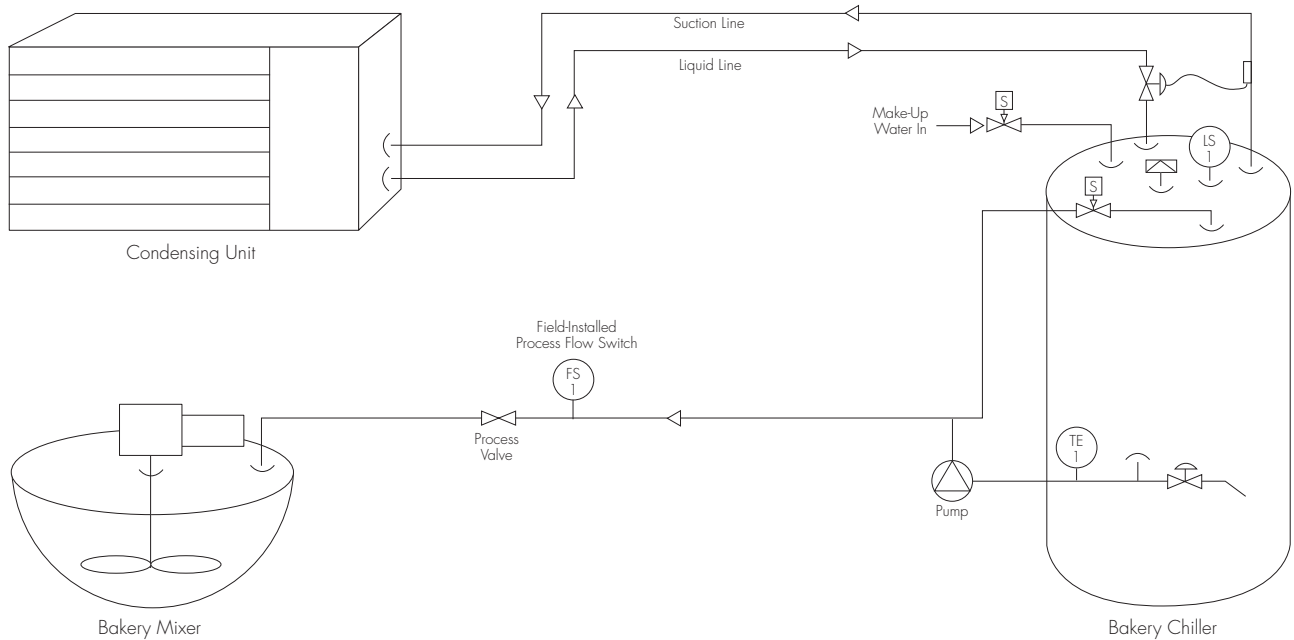
Providing automatic water temperature control for the modern baking industry.

## Standard Features

- Outlet temperatures down to 36°F.
- Provides up to 70 gallons of chilled water per hour.
- 50- and 120-gallon storage capacities available.
- Batch draw-off flow rates from 5 to 18 gallons per minute.
- Inlet temperatures up to 80°F.
- Process/recirculation pump standard.
- Remote condensing units.
- Adjustable digital temperature control with °F or °C display.
- ETL-listed.



# BAKERY CHILLER



## TECHNICAL SPECIFICATIONS

Model No.	GPH*	Lbs. Per Hour	Storage Capacity (gal)	Draw-Off Flow Rate (gpm)	Condensing Unit Type	Condensing Unit HP	Electrical Data	Estimated Shipping Weight (lbs)	Estimated Dimensions L x W x H (in)
PMC 40/50-RC	40	334	50	14	Outdoor	2	208-230/60/1	Skid-310	32 x 24 x 72
								CU-140	24 x 19 x 17
PMC 40/50-RS	40	334	50	14	None	—	208-230/60/1	310	32 x 24 x 72
PMC 70/120-RC	70	584	120	18	Outdoor	3.5	208-230/60/1	Skid-710	42 x 34 x 84
								CU-360	40 x 31 x 32
PMC 70/120-RS	70	584	120	18	None	—	208-230/60/1	710	42 x 34 x 84

## PERFORMANCE SPECIFICATIONS

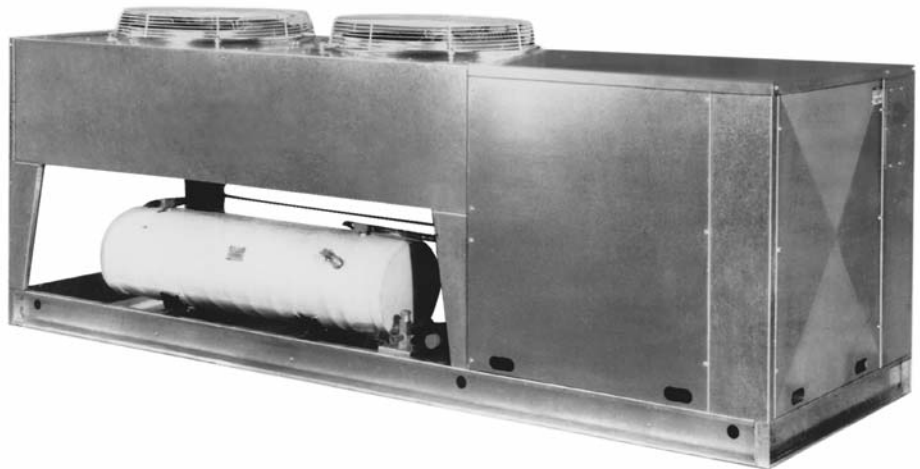
Inlet Temp.	Model No.	
	45/50 (gph*/storage)	70/120 (gph*/storage)
60°F	36°F	36°F
70°F	38°F	36°F

Note:

\*GPH capacities are based on a minimum water refill rate of at least 8 gpm, and on drawing evenly sized and spaced batches each hour.

# AIR-COOLED CONDENSING UNIT

Mueller air-cooled condensing units can be utilized for standard refrigeration applications; or by adding the modified options, you have a condensing unit that is designed specifically to work with Mueller chillers. Units are available in sizes from 5 thru 120 horsepower.

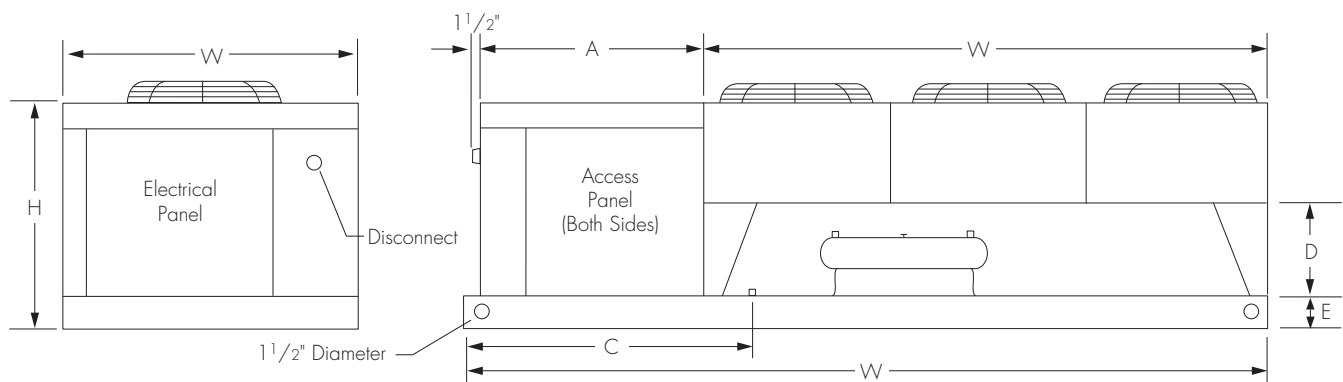


## Standard Unit Features

- Outdoor weather hood.
- Weatherproof control panel.
- Condenser with subcooling circuit.
- Semi-hermetic compressor with crankcase heater.
- Liquid receiver.
- Suction/discharge vibration absorbers.
- Head-pressure control valve.
- Liquid line filter drier and sight glass.
- Suction filter (replaceable core filter 15 hp and larger).
- Suction accumulator.
- Liquid and suction service valves.
- Non-fused disconnect.
- Compressor and condenser fuses (as required).
- Oil pressure control.
- High/low pressure control.
- Manual pump-down switch.
- Compressor contactor.
- Condenser fan contactors (as required).
- Fan-cycling thermostat.

## Modified Unit Features

- Standard features listed above.
- Accumulator with heat exchanger in lieu of standard suction accumulator.
- Hot-gas bypass valve (piped into accumulator) with hot-gas solenoid valve.
- Liquid injection valve (piped into accumulator) with liquid injection solenoid valve.
- Separate low-pressure control to activate hot-gas bypass and liquid injection solenoid valves.



# AIR-COOLED CONDENSING UNIT

DIMENSIONAL DATA										Estimated Shipping Weight (lbs)
Model No.	Condenser No. of Fans	L	W	Condensing Unit Dimensions (inches)						
				H	A	B	C	D	E	
COL-0500H	1	81	40.25	40.5	38	43	46	18	5	750
COL-0800H	2	121	40.25	40.5	38	83	46	18	5	860
COL-0900H	2	121	40.25	40.5	38	83	46	18	5	900
COL-1000H	2	121	40.25	40.5	38	83	46	18	5	900
COL-1500H	2	121	40.25	40.5	38	83	46	18	5	1,440
COL-2000H	2	176	48.00	53.5	55	109	63	21	6	1,560
COL-2500H	2	176	48.00	53.5	55	109	63	21	6	1,780
COL-3000H	2	176	48.00	53.5	55	109	63	21	6	1,870
COL-3500H	3	229	48.00	53.5	55	162	63	21	6	1,950
COL-4000H	3	229	48.00	53.5	55	162	63	21	6	1,960
COL-5000H	4	176	96.00	53.5	55	109	63	21	6	2,400
COL-6000H	4	176	96.00	53.5	55	109	63	21	6	2,680
COL-7000H	6	229	96.00	53.5	55	162	63	21	6	3,200
COL-8000H	6	229	96.00	53.5	55	162	63	21	6	3,500

CONDENSING UNIT CAPACITIES									
Model No.	HP	45	40	35	30	25	20	15	10
COL-0500	5	64,400	58,800	53,400	48,000	43,200	38,700	34,400	30,400
COL-0800	7.5	108,000	99,000	90,500	81,700	74,000	66,600	59,500	52,700
COL-1000	10	148,500	136,600	125,400	113,800	103,800	94,300	85,300	76,900
COL-1500	15	201,700	185,900	170,800	154,900	141,400	128,600	116,500	105,100
COL-2000	20	223,000	204,000	186,000	167,300	151,500	136,700	122,900	110,100
COL-2500	25	281,700	260,200	238,800	215,600	195,400	175,900	157,300	140,100
COL-3000	30	328,800	302,600	277,300	250,700	227,600	205,700	184,900	165,400
COL-3500	35	395,400	363,700	333,700	302,600	276,000	251,000	227,600	205,600
COL-4000	40	482,900	446,100	410,700	372,900	340,700	310,000	280,900	253,300
COL-5000	50	563,400	520,400	477,600	431,200	390,800	351,800	314,600	280,200
COL-6000	60	657,600	605,200	554,600	501,400	455,200	411,400	369,800	330,800
COL-7000	70	790,800	727,400	667,400	605,200	552,000	502,000	455,200	411,200
COL-8000	80	965,800	892,200	821,400	745,800	681,400	620,000	561,800	506,600

Note:  
Based on a 95°F ambient.

# MODEL "D" FRE-HEATER®

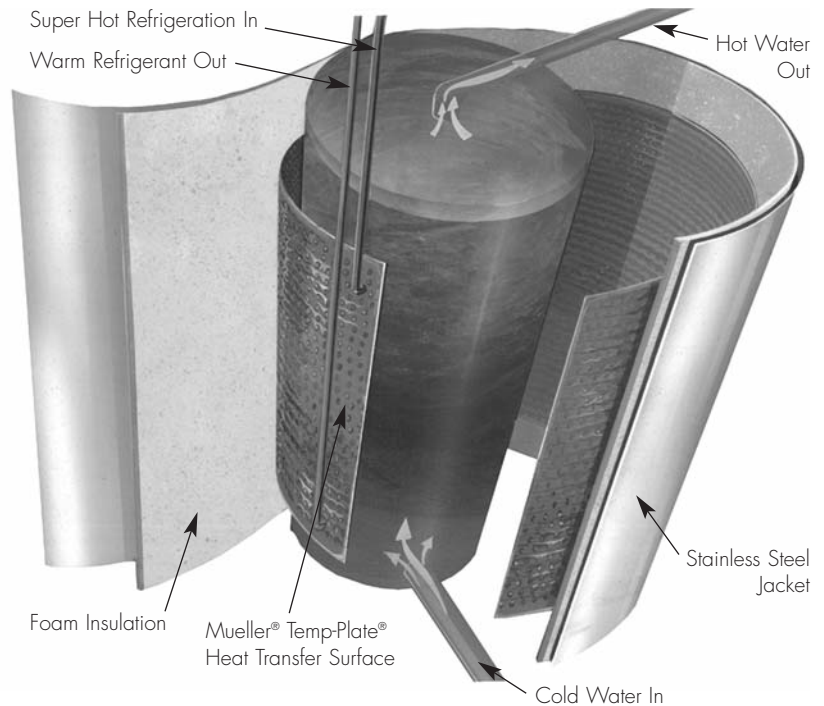
## Save Energy and Get FREE Hot Water!

Up to 60 percent of the normally wasted energy discarded from refrigeration and air-conditioning systems can be recovered with the Mueller Model "D" Fre-Heater.

By transferring the recovered heat energy to water, vast amounts of free hot water can be stored for use when and where the need arises.

The bottom line is the Fre-Heater pays for itself plus reduces your energy costs proportionately to your hot-water usage.

Walk-in coolers, freezers, commercial air-conditioning systems, ice machines, and other refrigeration systems all waste enough heat energy to produce hot water on a large scale. The Model "D" Fre-Heater enables a user to channel recovered energy from as many as six refrigeration sources into a single Fre-Heater unit, producing more than enough hot water to satisfy your needs.



## Benefits

- Designed for 426 psi maximum refrigerant working pressure and 150 psi maximum water working pressure.
- Available in 50-, 80-, and 119-gallon capacities.
- Heats and stores in one unit.
- Mueller's patented stainless steel Temp-Plate® is the heart of the Fre-Heater system. This highly efficient heat transfer surface is constructed of 100% stainless steel. Thoroughly tested; CSA and ISO 9001 compliant. Fre-Heaters meet all codes required for double-wall heat exchanger construction.
- The industrial-grade, glass-lined water storage tank resists rust and features two replaceable magnesium anodes for extra protection against natural water corrosion, increasing the life of the tank.
- Model "DE" Fre-Heaters offer all of the features of a standard Model "D" Fre-Heater with the addition of a 4,500-watt, 240-volt electric element. Available in 80- and 119-gallon sizes.



# MODEL "D" FRE-HEATER

FRE-HEATER MODEL "D" TECHNICAL SPECIFICATIONS											
Model No. <sup>1</sup>	Mueller Part No.	Water Connection Size	No. of Refrig. Circuits	Refrig. Connection Size	Refrig.	Per Circuit Application Capacity <sup>2</sup>	Dimensions		Approx. Shipping Wt. (lbs)	Approx. Loaded Wt. (lbs)	
							Height	Diameter			
D-50	8823750	.75" MPT	1	.625" ODM	R-22	.5 thru 4	54"	20"	220	600	
D2-50	8823751	.75" MPT	2	.625" ODM	R-22	.5 thru 4	54"	20"	220	600	
D-80	8823780	.75" MPT	2	.75" ODM	R-22	1 thru 5	59"	25"	300	940	
DE-80 <sup>3</sup>	8823781	.75" MPT	2	.75" ODM	R-22	1 thru 5	59"	25"	300	940	
DE-120 <sup>3</sup>	8823822	1.5" FPT	2	1.125" ODM	R-22	3 thru 15	62"	29"	430	1,300	
D-120	8823821	1.5" FPT	2	.75" ODM	R-22	1 thru 7.5	62"	29"	430	1,300	
D2-120	8823820	1.5" FPT	2	1.125" ODM	R-22	3 thru 15	62"	29"	430	1,300	
DH-120	8823823	1.5" FPT	2	1.625" ODM	R-22	7 thru 35	62"	29"	430	1,300	
DA-120	8823826	1.5" FPT	2	1" MPT	R-717	5 thru 25	62"	29"	430	1,300	
WT-120	8823824	1.5" FPT	Not applicable. See Note <sup>4</sup>					62"	29"	375	1,200

FRE-HEATER MODEL "DHS" TECHNICAL SPECIFICATIONS											
Model No.	Mueller Part No.	Water Connection Size	No. of Refrig. Circuits	Refrig. Connection Size	Refrig. Tonnage Capacity*	Element Voltage	Element Wattage	Dimensions		Water Tank Capacity (gal)	Approx. Shipping Weight (lbs)
								Height (in)	Diameter (in)		
DHS-120	8825141	1.25" FPT	1	1.625" ODM	14 thru 70	N/A	N/A	62	29.5	119	440
DHSE-120A4	8825142	1.25" FPT	1	1.625" ODM	14 thru 70	208-230	4,500	62	29.5	119	440
DHSE-120B4	8825143	1.25" FPT	1	1.625" ODM	14 thru 70	460	4,500	62	29.5	119	440
DHSE-120A6	8825213	1.25" FPT	1	1.625" ODM	14 thru 70	208-230	6,000	62	29.5	119	440
DHSE-120B6	8825214	1.25" FPT	1	1.625" ODM	14 thru 70	460	6,000	62	29.5	119	440

**Notes:**

<sup>1</sup> Nominal water tank capacity: D-50/50 U.S. gallons, D-80 and DE-80/80 U.S. gallons, and D-120/119 U.S. gallons.

<sup>2</sup> Refrigeration tonnage capacities are evaporator load tons, not heat-of-rejection tons. Conditions for these capacities are: 30°F, 110°F condensing temperature, and 50°F discharge gas superheat. Pressure drop through the Fre-Heater refrigeration circuits at the maximum rated tonnage will be approximately 15 psi. Pressure drop at the mid-range of the tonnage ratings will be approximately 5 to 7 psi. The best overall refrigeration/heat recovery system efficiency is usually obtained at the mid-range of the tonnage capacity ratings. When selecting a Fre-Heater for commercial refrigeration applications, the compressor discharge line size as well as the tonnage rating must be considered.

<sup>3</sup> Model "DE" Fre-Heaters have one 4,500-watt, 240-volt electrical element.

<sup>4</sup> Hot water storage only.

# BRAZED-PLATE HEAT EXCHANGER

## Top quality, high efficiency, and exceptional value.

When you design around a Mueller brazed-plate heat exchanger, you know what to expect in your finished product.

Mueller offers one of the world's largest range of brazed-plate heat exchangers and the program is constantly being expanded. Many of these units are available in stock and can be shipped the next day in most cases.

Many applications require small, efficient heat exchangers. The preferred choice is the brazed-plate heat exchanger (BPHE). A BPHE that is able to transfer 180,000 Btu/h weighs only 44 pounds and is less than two feet high.

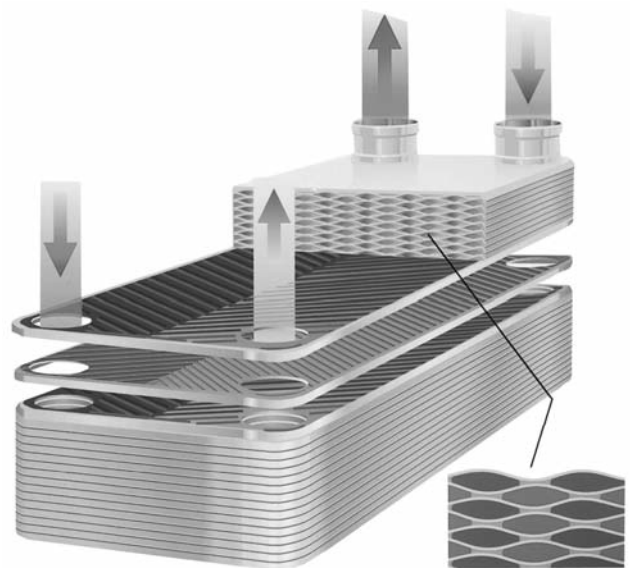
More than 90% of its mass constitutes highly efficient heat exchange surfaces which is why it is smaller in size. Compare almost any kind of heat exchanger technology with the BPHE and you will find the BPHE's efficiency is superior and the benefits are substantial. Mueller's brazed-plate heat exchanger contains up to 200 herringbone-pattern-embossed plates of stainless steel construction. Every other plate is turned 180°, causing the ridges of adjacent plates to intersect one another, thus forming a lattice of contact points.

When these points are subsequently brazed together, the resulting unit is a compact, pressure-resistant heat exchanger in which almost all material is involved in the heat transfer process.

The brazed plates form two separate channel systems. The two media assume a true counter-current flow, completely isolated from each other. This channel configuration is designed to produce high turbulence, promoting maximum heat transfer.

## Applications

- Condensers
- Evaporators
- Subcoolers
- Oil coolers
- Industrial processes
- Water heating
- Snow melting
- Heat pump, air conditioning, and chiller



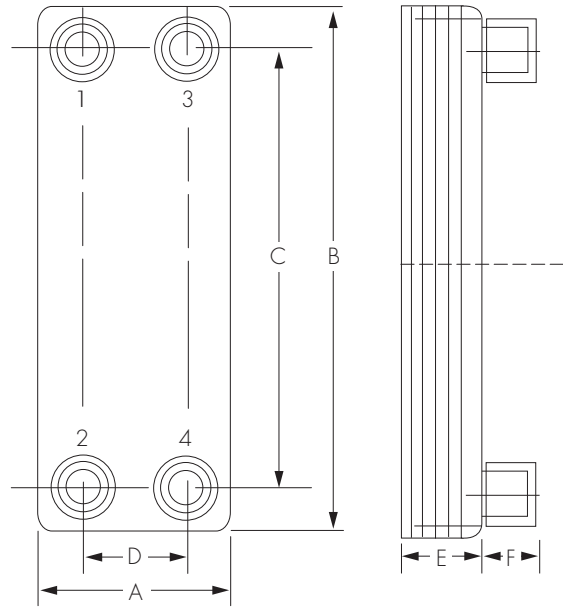
## Advantages

- Design more compact, engineered systems.
- Install a more cost effective, superior solution to your heat transfer applications.
- Reduce cooling media volume, further reducing the cost of fluid handling systems and energy consumption.
- Simplify maintenance and repair.

# BRAZED-PLATE HEAT EXCHANGER

## Standard Features

- A wide variety of solder and threaded connections are available.
- Plates are constructed of AISI 316 stainless steel and connections are AISI 316 stainless steel. Brazing is 99.9% copper, nickel alloy. Copper-free units are available.
- CE, UL, CUL, CSA.
- 450 psig maximum pressure. 383°F maximum temperature.



SPECIFICATIONS								
Type	Dimensions (inches)						Surface Plate (ft <sup>2</sup> )	Weight Empty (lbs)
	A	B	C	D	E	F		
WP1/NP1	2.88	8.00	6.56	1.63	0.47 + (0.095 x N)	0.79	0.150	1.65 + (0.11 x N)
WP2/NP2	3.50	9.06	7.19	1.69	0.47 + (0.095 x N)	0.79	0.193	2.42 + (0.13 x N)
WP22/NP22	3.50	12.80	10.98	1.69	0.47 + (0.095 x N)	0.79	0.274	3.14 + (0.13 x N)
WP24/NP24	3.50	18.15	16.34	1.69	0.47 + (0.095 x N)	0.79	0.366	4.20 + (0.33 x N)
WG24	3.50	18.15	16.34	1.69	0.47 + (0.112 x N)	0.79	0.366	4.20 + (0.33 x N)
WP3/NP3	4.88	6.73	4.72	2.88	0.47 + (0.095 x N)	0.79	0.189	2.64 + (0.13 x N)
WP4/NP4	4.88	13.07	11.06	2.88	0.47 + (0.095 x N)	0.79	0.377	3.52 + (0.26 x N)
WP5/AE5/NP5	4.88	20.83	18.81	2.88	0.47 + (0.095 x N)	0.79	0.634	4.40 + (0.53 x N)
DW5	4.88	20.83	18.81	2.88	0.47 + (0.095 x N)	0.79	0.634	4.40 + (0.53 x N)
WP7/AE7	10.59	20.83	18.11	7.88	0.47 + (0.095 x N)	3.74	1.453	12.13 + (1.32 x N)
WP8	10.59	20.83	16.57	6.34	0.47 + (0.095 x N)	2.44	1.400	16.54 + (1.54 x N)
WP9/AE9	10.59	31.41	27.16	6.34	0.47 + (0.095 x N)	2.44	2.150	21.15 + (1.76 x N)
WP10/AE10	15.08	34.25	28.46	9.33	0.88 + (0.095 x N)	NA	2.690	86.90 + (2.66 x N)

### Notes:

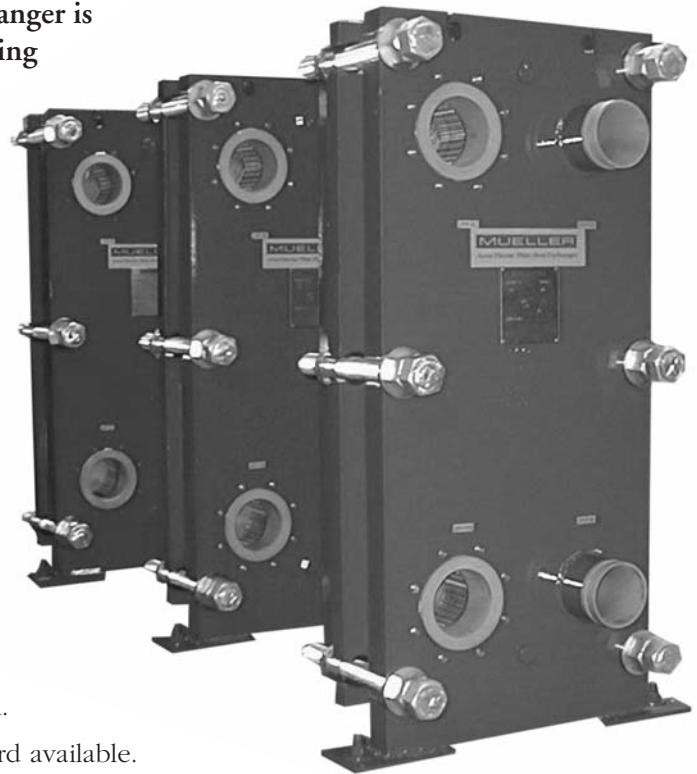
- WP = Copper Brazed
- WG = Wide Gap
- AE = Evaporator
- DW = Double Wall
- NP = Nickel Brazed
- N = Number of Plates

# ACCU-THERM® SEMI-WELDED HEAT EXCHANGER

Mueller's semi-welded Accu-Therm plate heat exchanger is ideal for solution chilling and refrigerant condensing in refrigeration applications.

The plate pack is built utilizing welded cassettes (two plates welded together). The refrigerant side is contained within the welded portion of the cassette to include welding of the solution port. Gaskets are used to seal the secondary side, which makes the plate pack easy to disassemble and clean.

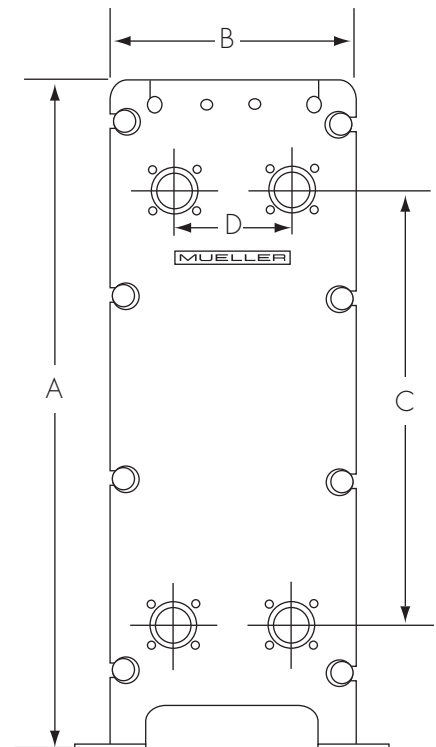
The welded cassettes are designed for optimum gasket sealing. Higher pressure improves the sealing of the gaskets.



## Standard Features

- Carbon steel, blue painted frame. (Optional stainless steel frame is available.)
- Plate material: 0.6 mm AISI (304 or 316) or titanium.
- 150 to 300 psig design pressure. ASME code standard available.
- Gaskets are available in Nitril®, EPDM, Viton®, Neoprene, or Chloroprene.
- Rubber lined, carbon steel, or metal lined (stainless steel or titanium) nozzles.
- Connections: Studded port, slip-on or weld neck flange, sanitary ferrule, or stub end.

ACCU-THERM SPECIFICATIONS (IN)						
Model No.	A	B	C	D	Port Size	Flow Rate (Maximum gpm)
AT-9W	34.9	13.2	22.2	4.9	1.5	120
AT-15W	45.2	13.2	32.5	4.9	1.5	120
AT-25W	49.8	21.7	30.5	10.1	4	800
AT-40W	67.4	18.7	47.5	8.3	3	450
AT-50W	68.7	21.7	49.4	10.1	4	800
AT-65W	68.9	28.7	45.4	12	8	3,200
AT-85W	90.2	28.7	66.7	12	8	3,200





**MUELLER**<sup>®</sup>

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