

BATCH DRAW WATER CHILLER

refills and chills, to be ready for the next batch draw.



FEATURES

- BATCH COOLING FOR BATCH MIXING Insures uniform dough year round
- WELDED STAINLESS STEEL COOLING TANK Provides storage required for batch draw operation without temperature swing
- COMPACT CHILLER Mounts on floor with minimum footprint
- USES HFC REFRIGERANT Eliminates ozone-depleting refrigerants per the Montreal Protocol

OPTIONS

FOOD GRADE MAKE-UP WATER

Pre-filtration reduces turbidity and improves UV efficiency. Purification removes organic odors and tastes. UV sterilization kills water-borne pathogens. No chemicals or harmful byproducts, easy to maintain.

PB-500: FOOD GRADE MAKE-UP WATER			
UV STERILIZER			
S-30			

STAINLESS STEEL EXTERIOR

CHILLER SELECTION

To properly size a cooler for batch mixing application, determine the amount of ingredient water needed per batch and the number of batches per hour.

	PB-500: CAPACITY TABLE*						
WATER	NUMBER OF BATCHES PER HOUR						
PER BATCH	1	2	3	4	5	6	7
gal/ltr	76/289	38/144	25/95	19/72	16/61	12/46	11/42
lb/kg	630/284	317/143	208/94	158/71	133/60	100/45	92/41
* Based on 80°F make-up water and 34°F ingredient water							

MODEL PB-500

DESCRIPTION A completely packaged water chiller designed for batch draw applications where a large volume of water is required intermittently. Filtrine PB chillers use a unique storage-type evaporator to chill water in batches thereby using less energy than continuous-draw water coolers. A large stainless steel cooling tank with internal evaporator automatically fills with water, which is constantly agitated and chilled to as cold as 34°F. When water is drawn off, a solenoid valve shuts off the make-up water, preventing the mixing of warm and chilled water, and ensuring a uniform batch temperature from first drop to last. After the batch is drawn, the cooling tank automatically

SPECIFICATIONS

COOLING CAPACITY:	See Table
Rating Conditions	
Water Discharge Temperature	34°F [1°C]
Ambient Temperature	90°F [32°C]
COMPRESSOR HP	5
Lifetime lubricated, welded hermetic type supplied w	vith condenser as
specified below, mounted on vibration absorbers an	nd provided with
internal overload, adjustable thermostat, freeze control	, expansion valve,
refrigerant sight glass and dehydrator.	
STANDARD CONDENSERS [Designated by suffix]	
- A Fan cooled, located inside chiller housing	
- AR Remote air cooled, for rooftop mounting	
- W Water cooled for hookup to city or tower water	

COOLING TANK & EVAPORATOR

Capacity..... 100 gal [380 ltr] Welded all stainless steel shell and immersion coil evaporator. Tank tested at 250# for 125# working pressure. Supplied with automatic air vent. Insulated with closed cell thermo-elastomer with an R factor of 3.7.

PUMP HP..... 1 1/2 Capacity...... 25 gpm @ 35 psi [95 lpm @ 2 Bar] Stainless steel centrifugal pump mounted on rubber pads over a stainless steel condensation tray. All piping Insulated with closed cell thermo-elastomer with an R factor of 3.7. Pump supplied with manual on/off switch, flow switch, make-up water solenoid valve and bypass for agitation. THERMOSTAT

Adjustable Range	34° to 90°F [1° to 32°C]
Temperature Stability	±1.5°F [±1°C]
CABINET	
White enameled aluminum nanals with	stainlass staal samar lags and

White enameled aluminum panels with stainless steel corner legs and top suitable for mounting on floor.

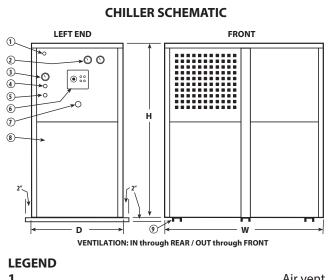
NOTE: Chiller weight and dimensions may vary due to condenser and options specified.

ENERGY SAVING OPTIONS

Reduce chiller energy consumption and lower operating costs. **Contact Filtrine for complete details.**



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Т.	Air vent
2.	Refrigerant gauges
	Make-up water
	Cold water out
6.	Control panel
7.	Electrical connection
8.	
	Channel skids - 3"W x 2"H

CHILLER DIMENSIONS							
MODEL	W		D		Н		
MODEL	in	cm	in	cm	in	cm	
PB-500-A	90	229	35	89	60	152	
PB-500-AR	90	229	30	76	60	152	
PB-500-W	90	229	30	76	60	152	

VENTILATION PANELS

Standard model air intake at right end and air discharge at rear. Allow 12" clearance opposite.

SERVICE PANELS

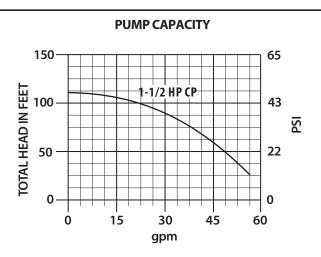
Removable - front and rear on all models. Allow 16" at left end and 22" at front for service.

OPTIONS and ACCESSORIES

- **DIAL THERMOMETER:** Specify for make-up and/or -DT discharge
- -PG PRESSURE GAUGE: Specify for make-up and/or discharge
- -WR WATER-RESISTANT DESIGN: Cabinet built as a water-resistant model; permits complete wash down
- -RFS REMOTE FLOW SWITCH: For closed loop operation
- -DUP DUAL PUMPS: Provide complete backup. Available with automatic switchover in case of failure
- -ADJ ADJUSTABLE LEGS: Stainless steel, up to 6" high
- -DISC FUSED DISCONNECT SWITCH: On power supply
- -SSC STAINLESS STEEL CABINET: Panel, corner legs and top constructed of #304 stainless steel

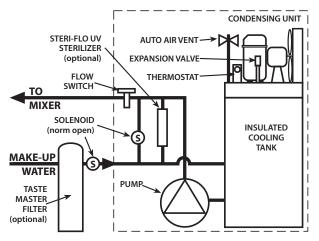
FOOD GRADE MAKE-UP WATER

See complete description on other side.



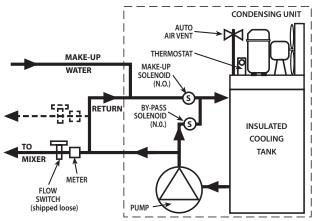
PLUMBING SCHEMATIC

Showing optional Taste Master® sediment/taste/odor filter and Steri Flo® UV Sterilizer.



OPTIONAL CLOSED LOOP SYSTEM

Where the mixer outlet[s] are a long distance from the chiller, a recirculating loop may be installed to keep the water in the piping cold. The flow switch[es] are shipped loose for installation at the meter[s].



WARRANTY

All parts are covered F.O.B. factory for 15 months from date of shipment.

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