

ONE-PASS CHILLER



TYPICAL CHILLER SHOWN

APPLICATIONS

Photo Developing
Ingredient Make-up
Poultry Cooling
Bottling
Dispensers
Pharmaceuticals

Reverse Osmosis
Ice Machines
Spray Washes
Beverages
Eye Wash Water
Boiler Feed Samples

FEATURES

Energy Saving Design

Unlike most process chillers, compressor runs only as needed. Storage design provides close temperature control and safety from freeze-up without constant operation.

Complete Temperature Control

Temperature adjustable range of 40° to 90°F [5° to 32°C] and will hold temperature within ± 1.5°F [1°C] of setting.

Welded Stainless Steel Cooling Tank

Coolant sealed from the atmosphere, eliminates bacterial build-up and internal corrosion.

Uses HFC Refrigerant

Eliminates use of ozone-depleting refrigerant as per Montreal Protocol.

Unlimited Options

Design the perfect cooling system for any application. Over 50 options to meet almost any special need.

Refer to Bulletin O & A.

MODEL PC-200

DESCRIPTION

A completely packaged liquid chiller designed for applications where the liquid to be cooled passes through the chiller only once before either being added as an ingredient to a product or fouled by the product it is cooling. It is most important that a one-pass chiller be able to chill liquids at high and low flow rates without significant pressure drop or danger of freeze up, and yet have close, accurate temperature control.

Filtrine PC chillers are specifically designed for one-pass cooling. A high transfer immersion coil evaporator supplies maximum capacity at any flow rate with no pressure drop. Storage tank design permits close temperature control without short-cycling.

SPECIFICATIONS

COOLING CAPACITY @ 68°F discharge and 90°F ambient

MODEL	BTU/HR	WATTS	208-230/60/1	208-230/60/3	460/60/3
PC-200-24	24,000	7,032	FLA 21	FLA 14	FLA 6
PC-200-27	27,000	7,911	FLA 21	FLA 12	FLA 7
PC-200-30	30,000	8,790	FLA 21	FLA 12	FLA 7
PC-200-33	33,000	9,669	FLA 23	FLA 17	FLA 9

COMPRESSOR HP 2

Lifetime lubricated, welded hermetic type supplied with high/low pressure stat, anti-migration solenoid valve, thermostatic expansion valve, refrigerant sight glass and dehydrator.

STANDARD CONDENSERS [Designated by suffix]

- **A** Fan cooled condenser for indoor installation
- **AR** Remote Air cooled condenser furnished separately for mounting on roof
- **W** Water cooled condenser for hookup to city or tower water
- **A-WP** Weather-resistant for outdoor installation

COOLING TANK & EVAPORATOR

Capacity 16 gal [60 ltr]

Welded stainless steel shell and immersion coil evaporator.

Tank tested at 250# for 125# working pressure. Supplied with liquid level gauge and insulated with closed cell thermo-elastomer with an R factor of 3.7 and enclosed in rust-proof steel jacket.

THERMOSTAT: Adjustable Range 40° to 90°F [5° to 32°C]

Temperature Stability ± 1.5°F [1°C]

CABINET: Enameled aluminum panels with stainless steel corner legs and top. Panels removable for access to all components.

SUPPLY POWER: 208 or 230/60/1, 460/60/3

NOTE: FLA may vary depending on options. See MCA and MOP ratings on as-built unit.

PLUMBING CONNECTIONS IN & OUT 3/4" [19 mm] FPT

SHIPPING WEIGHT SEE CHART ON REVERSE

CHILLER DIMENSIONS and WEIGHTS

FILTRINE Model No.	W		D		H		SHIP WT	
	in	cm	in	cm	in	cm	lb	kg
PC-200-A	48	122	27	69	45	114	700	315
PC-200-W	48	122	27	69	45	114		
PC-200-AR	48	122	27	69	45	114		
PC-200-A-WP*	48	122	27	69	48	122		
PC-200-A-WP-LP**	CONSULT FACTORY FOR DIMENSIONS							
PC-200-A-SSD***	27	69	27	69	74	188		
PC-200-W-SSD***	27	69	24	61	72	183		
PC-200-AR-SSD***	27	69	24	61	72	183		

* Weather-resistant for rooftop mounting

** Low profile weather-resistant for rooftop mounting

*** Space Saving Design

NOTE: Chiller dimensions and shipping wts. may vary depending on options - confirm with factory.

LEGEND

- | | |
|----------------------|--------------------------------------|
| 1. Air Vent | 7. To Remote Condenser [AR Models] |
| 2. Fill Port | Condenser Water Out [W Models] |
| 3. Coolant Return | 8. From Remote Condenser [AR Models] |
| 4. Coolant Discharge | Condenser Water In [W Models] |
| 5. Control Panel | 9. Electrical Connection |
| 6. Gauges | 10. Channel Skids |

VENTILATION PANELS

Standard models: air intake at rear, air discharge at right end and front. Recommend 3 ft. clearance at front for service and 18 in. clear space opposite all ventilation panels.

REMOVABLE SERVICE PANELS

Front & rear on all models

CHANNEL SKIDS

Channel skids project 2" [5 cm] front and rear. Center of mounting holes located 6" [15 cm] from chiller end and 1" [2.5 cm] from chiller edge front and rear.

STANDARD OPERATING CONDITIONS

OUTDOOR AMBIENT
-20° to 100°F [-29° to 38°C]

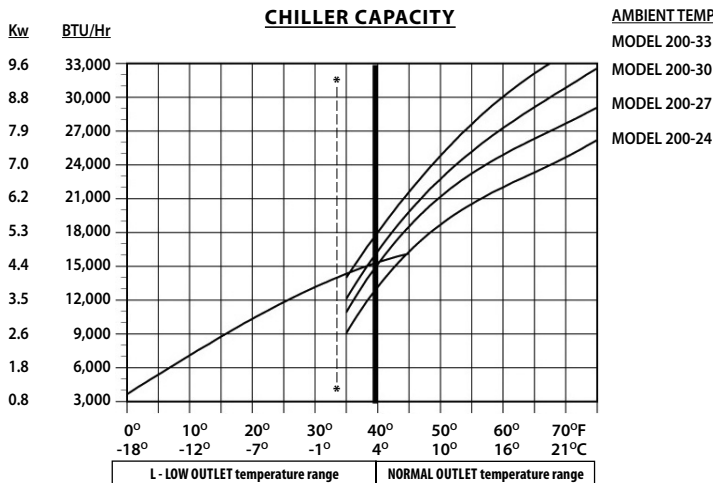
OPTIONAL OPERATING CONDITIONS

OUTDOOR AMBIENT
Up to 110°F [43°C]
Up to 120°F [49°C]
Down to -30°F [-34°C]

NOTE Higher ambient options may affect unit dimensions.

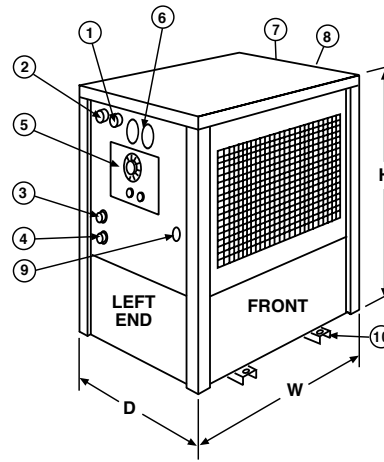
REMOTE CONDENSER

Use w/Standard or SSD Models - Furnished complete w/controls for operating in ambient temperatures to minus 20°F [-29°C]; consult factory for specs. Connections for remote condenser are at right end of chiller cabinet.



* For outlet temperatures below 34°F - use appropriate antifreeze

NOTE: Information given in this bulletin for general use only. Confirm exact specs with factory for your specific requirements.

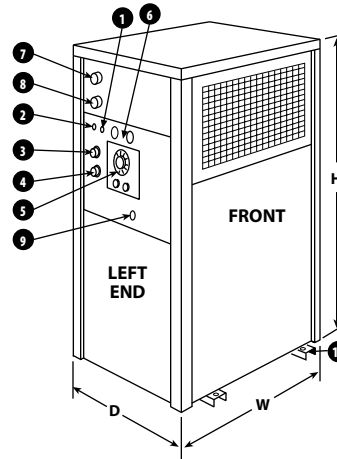


STANDARD MODELS: Suffix A, AR, and W

NOTE: Manufacturer recommends 36 inch clearance at front for service and 18 in. clear space opposite all ventilation panels.

NOTE: Allow an additional 4" to depth and 2" to height for channel skids.

NOTE: Drawings are composites of various models to demonstrate plumbing locations. Confirm footprint with factory.



SPACE SAVING DESIGN MODELS: Suffix SSD - A, AR & W

NOTE: Manufacturer recommends 36 inch clearance at front for service and 18 in. clear space opposite all ventilation panels.

NOTE: Allow an additional 4" to depth and 2" to height for channel skids.

NOTE: Drawings are composites of various models to demonstrate plumbing locations. Confirm footprint with factory.

CHILLER GPH COOLING CAPACITY

CHILLER MODEL NUMBER	MAKE UP WATER	CHANGE IN TEMPERATURE THROUGH CHILLER				
		5°F	10°F	20°F	30°F	40°F
PC-200-33	90°F	■	■	199	129	75
	80°F	868	398	193	100	54*
	70°F	771	386	151	72*	■
	60°F	651	301	108*	■	■
	50°F	506	217*	■	■	■
	40°F	337*	■	■	■	■
PC-200-30	90°F	■	■	187	108	69
	80°F	771	374	163	92	50*
	70°F	699	325	138	66*	■
	60°F	602	277	99*	■	■
	50°F	482	199*	■	■	■
40°F	265*	■	■	■	■	
PC-200-27	90°F	■	■	169	100	63
	80°F	699	337	151	84	45*
	70°F	627	301	127	60*	39*
	60°F	554	253	90*	52*	30*
	50°F	434	181*	78*	40*	21*
	40°F	265*	157*	60*	28*	12*
PC-200-24	90°F	■	■	151	88	57
	80°F	627	301	133	76	36*
	70°F	554	265	115	48*	■
	60°F	494	229	72*	■	■
	50°F	398	145*	■	■	■
	40°F	217*	■	■	■	■

* Agitation pump required