



**IPC** INDUSTRIAL  
PROCESS  
COOLING

## **INDUSTRIAL CHILLERS**

1/2 TON - 200 TON

[CompressedAirSystems.com](http://CompressedAirSystems.com)

## Why a Chiller?

The real cost of water includes both its acquisition and disposal. If your manufacturing process utilizes cooling water, you will recognize savings immediately with a closed loop chiller.

Using a closed loop unit eliminates costs associated with increasingly stringent local and federal water regulations. Chillers completely eliminate the need for discharge water monitoring and annual permits.



Usage GPM	Annual Water & Sewage Cost		
	\$2.00 / 1,000 Gal	\$5.00 / 1,000 Gal	\$8.00 / 1,000 Gal
1	\$240	\$600	\$960
5	\$1,200	\$3,000	\$4,800
10	\$2,400	\$6,000	\$9,600
25	\$6,000	\$15,000	\$24,000
50	\$12,000	\$30,000	\$48,000
100	\$24,000	\$60,000	\$96,000

Based on 52 weeks @ 40 hours/week

## How Much Are You Spending on Water?

In the past, plants often connected process equipment to their incoming city water supply and never gave it a second thought. However, since the days of plentiful and cheap water are gone, and sewer charges are often substantial, self-contained water recirculators and chillers have become a popular option.



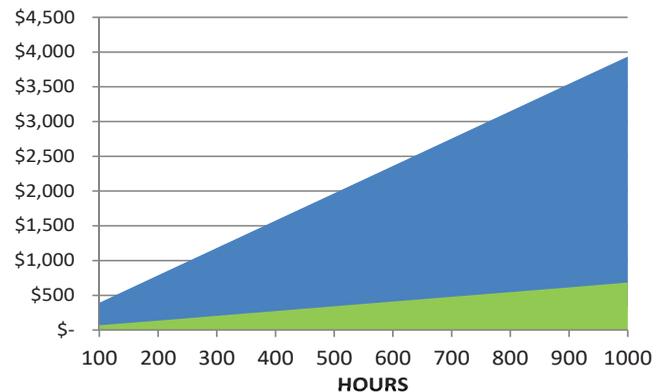
## CONSERVE WATER + CONSERVE CASH

With an immediate reduction in water use and a consistent cooling water temperature, chillers offer a significant improvement to the process and fast ROI.

- Wide variety of units in stock for immediate shipment
- Competitive pricing
- Excellent customer service
- Service & support available
- Replacement parts

### Cost Comparison - Water vs. Electricity

Typical 5 Ton Chiller - 460/3 @ 20 GPM



Water calculations based on 20 gpm @ \$0.003/gallon (blue).  
Electricity calculations based on continual operation @ \$0.10kW/hr (green).

# BENEFITS & ADVANTAGES



Industrial water chillers offer protection to your valuable process equipment - such as spot welders, injection molding equipment, and various other industrial applications. A chiller provides solid protection of your investment twenty-four hours a day, seven day a week during the chiller's lifetime.



01

## Improved Productivity

Experience reduced production cycle times and fewer interruptions. With precise water temperature control, industrial chillers reduce production cost by eliminating waste.

02

## Closed Circuit Operation

Extremely precise water temperature control ensures steady operating conditions and a quick response to any sudden load changes.

03

## Built for Industry

IPC perfectly matches the needs of a diverse range of industries - from machinery to pharmaceutical, and food and beverage to plastics and rubber.

04

## Personalized for Your Needs

An extensive range of accessories and upgrades are available making your chiller flexible and fully customizable.

## Our Team

With over 40 years of experience selling industrial water chillers, Industrial Process Cooling is recognized as a trusted source for these important but often overlooked process components.

Our industrial water chillers are top-of-the-line and come with superior customer service. Contact us today with your requirements and one of our service representatives will help you select the right product for your application.





# LINEUP

## 1/2 - 200 TON

Industrial Process Cooling offers various-sized compact water and oil chillers, as well as large cooling systems to fit industrial applications.

Visit our online catalog or contact one of our Sales Representatives today to find the right chiller for your needs.

We serve all types of industrial application, such as:

- Welding equipment
- Molding equipment
- Induction heating equipment
- Bakery
- Chemical operations
- Food processing
- Machine tools
- Boiler feed sampling
- Cement mixing
- Lasers
- Packaging machinery
- Computers
- Plasma cutting
- Film processing
- Electric generators



# cube

R134A



## COMPACT CHILLERS

- Refrigerant R134A
- Scroll compressors
- High-efficiency coaxial tube in tube evaporators
- Non ferrous water circuit
- Single phase and three-phase models
- Advanced digital controller with diagnostic & storage alarms

 MODELS **7**

 SIZES **3**

 CAPACITY **0.2-5 tons**

# flex

R410A



## FLEXIBLE CHILLERS

- Refrigerant R410A
- Scroll compressors
- High-efficiency shell & tube evaporators
- 460V/3ph/60Hz
- Free-cooling version available

 MODELS **12**

 SIZES **4**

 CAPACITY **5-45 tons**

# TITAN

R410A



## LARGE CAPACITY CHILLERS

- Refrigerant R410A
- Precise temperature control for any industrial application
- Electronic Expansion thermostatic valve
- Separated compressor compartment with removeable panels
- Refrigerant high and low pressure gauges

 MODELS **6**

 SIZES **3**

 CAPACITY **50-200 tons**

## Technical data

		Cooling Capacity		Fluid Connections	Flow, Nominal Gal/min	Head Pressure, Nominal psi	Reservoir Capacity gal	Voltage V	FLA	Dimensions (in.)			Weight (lbs)	
		Tons	BTU/Hr							L	W	H	Installed	Dry
IPC-0005	CUBE	0.5	6,484*	1/2" MPT	1.5	65	5.25	230/1/60	9.9	31	23	18	212	169
IPC-0009	CUBE	1	10,782*	1/2" MPT	2	65	5	230/1/60	14.7	31	23	18	220	176
IPC-0017	CUBE	1.7	20,745*	3/4" MPT	4	75	14.5	460/3/60	7.4	29	26	44	436	315
IPC-0021	CUBE	2.1	25,318*	3/4" MPT	5	75	14.5	460/3/60	8.6	29	26	44	447	326
IPC-0026	CUBE	2.6	31,528*	3/4" MPT	6	75	14.5	460/3/60	11.5	29	26	44	447	326
IPC-0031	CUBE	3.1	37,192*	1" MPT	8	70	21	460/3/60	12.0	39	30	51	682	507
IPC-0056	CUBE	5.6	66,639*	1" MPT	13	65	21	460/3/60	16.6	39	30	51	704	529
IPC-0062	FLEX	6.2	74,552	1-1/2" MPT	16	60	32	460/3/60	20.2	56	30	63	995	727
IPC-0076	FLEX	7.6	90,707	1-1/2" MPT	20	70	58	460/3/60	25.0	74	31	65	1,454	970
IPC-0092	FLEX	9	110,890	1-1/2" MPT	25	70	58	460/3/60	26.9	74	31	65	1,459	975
IPC-0117	FLEX	12	140,638	1-1/2" MPT	30	70	58	460/3/60	31.8	74	31	65	1,498	1,014
IPC-0141	FLEX	14.1	168,777	1-1/2" MPT	35	70	58	460/3/60	38.2	74	31	65	1,498	1,014
IPC-0178	FLEX	17.8	214,057	2" MPT	45	70	92	460/3/60	46.3	97	36	78	2,355	1,587
IPC-0201	FLEX	20.1	240,955	2" MPT	55	65	92	460/3/60	51.6	97	36	78	2,420	1,653
IPC-0229	FLEX	22.9	275,155	2" MPT	60	65	92	460/3/60	61.1	97	36	78	2,420	1,653
IPC-0282	FLEX	28.2	338,397	2" MPT	72	65	92	460/3/60	79.4	97	36	78	2,490	1,725
IPC-0353	FLEX	35.3	424,050	2-1/2" MPT	96	65	132	460/3/60	93.2	137	48	78	3,150	2,050
IPC-0395	FLEX	39.5	474,037	2-1/2" MPT	108	65	132	460/3/60	101.5	137	48	78	3,275	2,175
IPC-0450	FLEX	45	540,173	2-1/2" MPT	123	65	132	460/3/60	147.0	137	48	78	3,400	2,300
IPC-0532	TITAN	53.2	638,070	3" M Vic	125	40	132	460/3/60	196.0	124	87	95	6,846	5,747
IPC-0598	TITAN	59.8	717,480	3" M Vic	145	40	132	460/3/60	227.0	124	87	95	6,941	5,908
IPC-0756	TITAN	75.6	907,629	3" M Vic	180	40	132	460/3/60	257.0	124	87	95	7,061	6,029
IPC-0946	TITAN	94.6	1,135,901	4" M Vic	225	40	200	460/3/60	315.0	175	87	95	9,293	7,835
IPC-1060	TITAN	106	1,272,728	4" M Vic	250	40	200	460/3/60	365.0	175	87	95	9,393	7,935
TBD	TITAN	110+	Consult Factory When Available											

Capacity Ratings	Series		
	*CUBE	FLEX	TITAN
Fluid out / in	60F / 70F	45F / 55F	45F / 55F
Ambient	95F	95F	95F
Min fluid outlet	41F	41F	41F
Max fluid outlet	86F	86F	82F
Max ambient	113F	113F	113F

Correction Factors (FLEX and TITAN only)							
Water outlet temp (F)	30	35	40	45	50	55	60
	0.68	0.79	0.91	1	1.09	1.19	1.27
Ambient temp (F)	80	85	90	95	100	105	113
	1.11	1.08	1.04	1	0.93	0.91	0.83
Ethylene Glycol (%)	0	10	20	30	40	45	50
	1	0.99	0.98	0.97	0.96	0.95	0.94

# Sales & Service Across the Globe



Industrial Process Cooling is committed to providing exceptional customer service and support every step of the process. Learn how your plant can increase productivity, optimize performance, and reduce water costs with a closed circuit water cooling system.



## The Chiller Specialists at Your Service

With Industrial Process Cooling,  
you have access to a trained  
sales and service team.

To request more information about  
new, custom, or used machines,  
contact your chiller specialist today.

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