

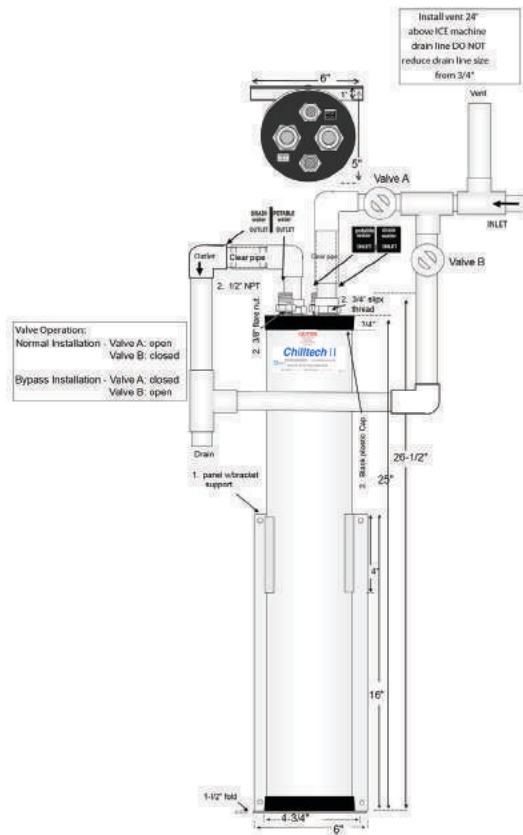
The **EXCLUSIVE** ChillTech Heat Exchange system lowers incoming water temperatures to ice makers. This results in significantly reduced ice making cycle times, while lowering the kWh consumption by **30% or more** and increasing ice making capacity by **30% or more!**

Bypass Installation.

Valve operation:

Normal Installation: Valve A: **open**
Valve B: **closed**

Bypass Installation: Valve A: **closed**
Valve B: **open**



Install vent 24 in. Above ice Machine drain line - DO NOT Reduce drain line size from 3/4 in.



Benefits.

- Increases ice production up to 30%!
- Lowers kWh consumption by up to 30%
- Stand alone product
- No electricity required
- Easily connects to cold water feed line
- 5 year parts warranty

MODELS.

MODEL	PART NO.	AVAILABILITY
ChillTech Slim	1012-1002	IN STOCK
ChillTech I	1015-1001	IN STOCK
ChillTech II	1015-2001	IN STOCK
ChillTech III	1015-3001	IN STOCK

ACCESSORIES.

ScaleGone 1



Inhibits limescale build-up by dispensing controlled amount of Citryne compound, ideal for heat exchange equipment. Consider ScaleGone 1 for all equipment that heats or cools water in areas that even has low levels of hardness.



the **ChillTech Advantage**



the **ChillTech Series** by: SYSTEMS IV®

The Marketplace is full of poor performing Commercial ice machines. Most buyers purchase what they need at the time, and nothing more. Most businesses grow, and of course, the ice machine does not grow with them. Purchasing ice is expensive to say the least.

Performance on all ice machines is measured by ambient air temperature and incoming water temperature. Years ago a restaurant owner told us he loved his ice machine except that it didn't make enough ice in the summer and made too much ice in the winter. We heard this over and over.

Temperature Reduction.

We have found ChillTech not only reduces freeze times but also increased harvest weight which in turn reduces the amount of water purged at the cycles end. This means a highly reduced kWh consumption per 100 pounds of ice and a reduction in gallons of water used per pounds of ice harvested.

The exclusive ChillTech system will significantly reduce water temperature to incoming ice makers. This will reduce ice maker cycle times while increasing the ice making capacity of the ice maker **by up to 30%**.

Less kWh cost to the consumer results in a lower electric bill... This results in the **ChillTech's** ability to pay for itself in less than a year and in many cases in 6 months or less.

SystemsIV® has developed **ChillTech** to be a very simple add on to existing or new ice machines. Designed to sit on the floor or attached via a simple mounting bracket that can be attached to the wall or the side of the bin for additional support.



The **ChillTech** catches that wonderful free energy and transfers the cold left over water to the incoming warmer water in it's system to bring the temperature down **by up to 30%**. The result is an ice maker that makes much more ice in the days and months and even years to come on **FREE** energy.

The **ChillTech** attaches to the existing drain line, and is very fast to install. **MAINTENANCE FREE.**

Significant Reduction in Ice Maker cycle times.

ChillTech Slim.

ALL Under counter Cubers
(Modular up to 600lbs/day)

ChillTech I.

Cubers **up to** 1,200lbs/day
(Hoshizaki™ up to 600lbs/day)

ChillTech II.

Cubers **up to** 2,400lbs/day
(Hoshizaki™ up to 1,800lbs/day)

ChillTech III.

Cubers **over to** 2,400lbs/day
(Hoshizaki™ up to 2,000 to 2,400lbs/day)

"Reduce energy consumption by up to 30% and increase ice production by up to 30% or more while extending the life of your ice makers."



The ChillTech "Family"

We developed the ChillTech to be simple...

Installation requires nothing more than taking the existing drain tubing from the ice maker itself and installing it to the inlet line and then installing the continuation drain line to the drain. The inlet potable water line to the ice maker needs to be routed to the marked flare fitting and the continuation to the ice maker from the flare fittings. It would be advisable, although not necessary to wrap the continuing water line to the ice maker with insulation. This would maintain the cold temperatures the **ChillTech** brings to the ice maker. An ice maker installed with a **SystemsIV® ChillTech** will reduce freeze times.

How long will it take for the customer to know their ChillTech is working?

Almost immediately... The moment the customer has the ChillTech installed; it is working. There is no BREAK-IN period.

The essence of simplicity is generally what works! Today **GREEN** is the standard... This product is about as **green** as it gets!



CTI Cutaway

Cooler temperatures mean less heat. Heat is wear. So, the customer can expect to find lower temperatures surrounding the ice maker - the condenser if air-cooled will discharge a slightly cooler air since it has less heat to remove due to lighter load or temperature of the water. All the components will last longer as they are now operating for a shorter period of time.

Words from Larry...

"We have found that not only did we reduce freeze times, we increased harvest weight which in turn reduces the amount of water purged at the cycles end. This means a reduced KWH consumption per 100 pounds of ice, and a reduction in gallons of water used per pounds of ice harvested."

Your customers will benefit in many ways by using the **ChillTech!**

Remember, there are no electrical hook ups, the unit is self cleaning, reduces water consumption, increases capacity, has no moving parts, is maintenance free and is simple to install to new or, in particular, existing installations."



ChillTech I
Horizontal Install

the ChillTech Advantage calculator

Ice Maker Capacity (lbs/day)	400	600	800	1000	1200	1800	2400
Actual Daily Production using mfg's 90-70 specs (lbs/day)**	330	460	700	820	1,075	1,350	1,875
Annual Ice Production (lbs)	120,450	167,900	255,500	299,300	392,375	492,750	634,375

Increase Ice production by up to 30%

Extra Ice Production (lbs/day)	99	138	210	246	322.5	405	562.5
Increased Ice Production (lbs/year)	36,135	50,370	76,650	89,790	117,713	147,825	205,313
Value of Additional Ice @ \$0.01 /lb	\$361.35	\$503.70	\$766.50	\$897.90	\$1,177.13	\$1,478.25	\$2,053.13

Current Daily Ice Production

x 0.3 x 365 =

 LBS

Save on Electricity by up to 30%

Typical kWh to produce 100lbs of Ice	8.5	8.3	6.1	5.9	5.7	6.1	5.6
kWh usage per day (daily production/100)	28.05	38.18	42.7	48.38	61.275	82.35	105
*kWh per 100	\$1,023.83	\$1,393.57	\$1,558.55	\$1,765.87	\$2,236.54	\$3,005.78	\$3,832.50
Annual Savings of 30%	\$307.15	\$418.07	\$467.57	\$529.76	\$670.96	\$901.73	\$1,149.75

Total Electric Bill

X

Daily ice prod.

kWh

per 100lbs x 0.3 x 365 = \$

kWh Used

100

= values to be inserted for your calculation

* Check your electric bill - Divide total cost by kWh costs. Stated Rate does not include misc. costs and fees
 ** Ice productions are general manufacturers ranges. Check yours. Field conditions, Air & Water temp determine actual production increases. Check each manufacturers kWh specs for actual numbers - Divide 24 hour production by 100.

the ChillTech Advantage

installation guide

Installation requires nothing more than taking the existing drain tubing from the ice maker itself (wastewater) and installing it to the inlet of the 3/4" slip (marked inlet) and then installing the continuation drain marked 3/4" slip (outlet) to the drain. 1/2" male thread pipe for potable water.

The Inlet potable water line to the ice maker needs to be routed to the marked (inlet) NPT fitting and the continuation to the ice maker from the (outlet) 1/2" NPT fitting. It would be advisable, although not necessary, to wrap the continuing water line to the ice maker with insulation. This would maintain the cold temperatures the ChillTech brings to the ice maker.

An ice maker installed with a SystemsIV@ChillTech will reduce freeze times and increase ice making production. There are no electrical hook-ups. The unit is self cleaning, reduces water consumption, increases capacity, has no moving parts, is maintenance free and is simple to install to new or in particular to an existing installation.

We recommend using clear pipe sections before & after ChillTech to ensure that water is not constantly running.

Typical ChillTech Ice Maker Installation

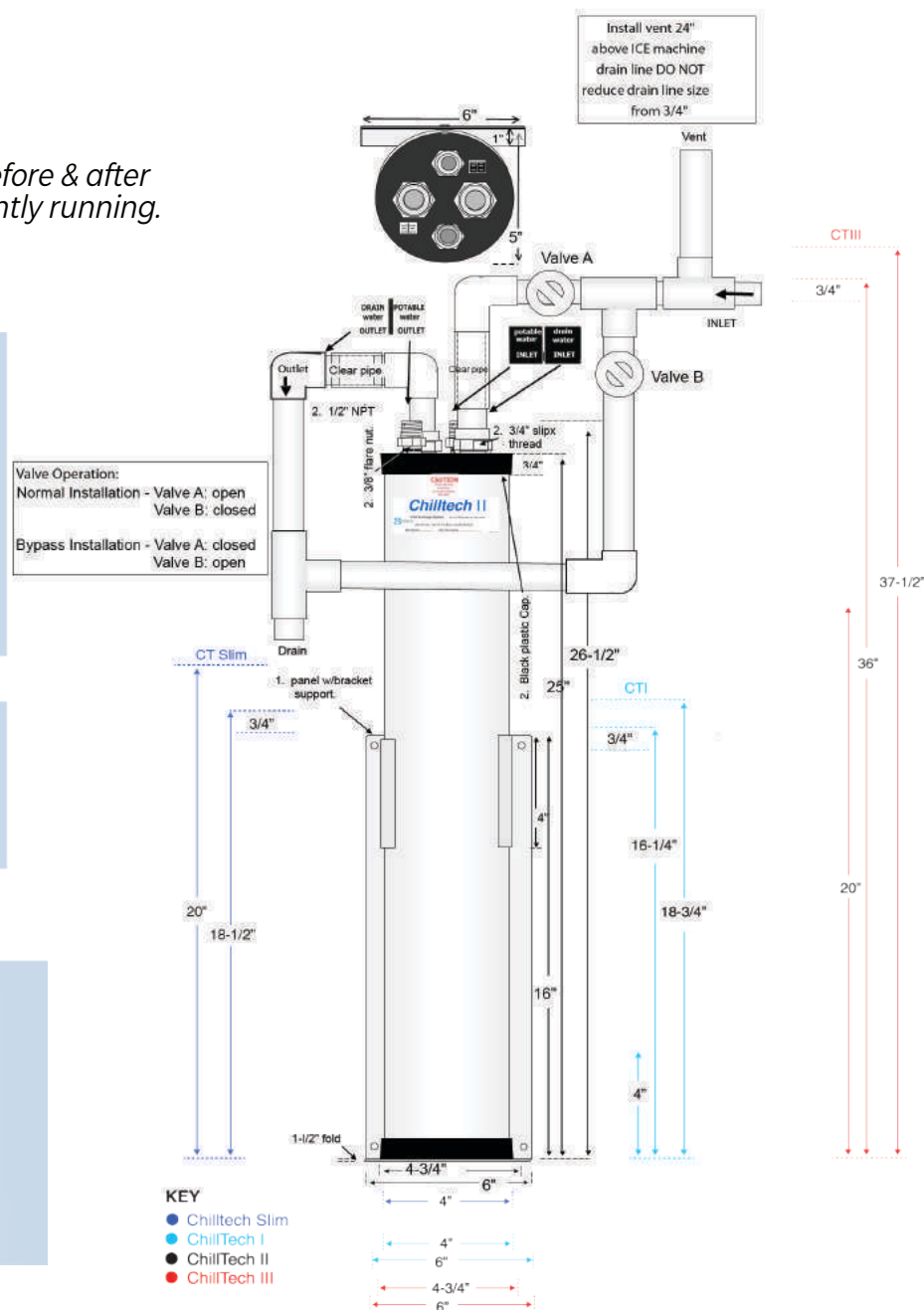
MATERIAL LIST:

- 10 ft. - 3/4" SCH 40 PVC pipe
- 3 ea. - 3/4" SCH 40 PVC slip tee
- 4ea. - 3/4" SCH 40 PVC slip 90° elbow
- 2 ea. - 1" x 8" clear pipe (included)
- 2 ea. - 3/4" PVC slip valve

Note:

All ChillTech models now come from the factory with 2 pieces of clear tubing and a mounting bracket.

Limited Warranty: Manufacturer warrants to the original purchaser that its product is free from defects in material and workmanship for a period of 2 years from the date of purchase, if the product is installed in accordance with the manufacturer's instructions. This warranty is limited to materials only. Installation and labor costs are excluded from the warranty. This warranty does not include damage caused by accident, abuse, misuse, neglect, freezing, alterations, misapplication or the use of anything other than potable water.



2024 ChillTech Series Pricing

ChillTech III

MODEL	DESCRIPTION	LIST PRICE
ChillTech Slim with mounting bracket 1012-1002	<i>Designed specifically for ALL Under Counter Ice Makers Horizontal Mount (also up to 600lb/day Modular Ice Makers)</i>	\$822.00
ChillTech I (CTI) with mounting bracket 1015-1001	ChillTech II <i>Up to 1,200 lbs/day cuber (all Hoshizaki^ models up to 600 lbs/day)</i>	\$870.00
ChillTech II (CTII) with mounting bracket 1015-2001	<i>Up to 2,400 lbs/day cuber (all Hoshizaki^ models up to 1,800 lbs/day)</i>	\$1,543.00
ChillTech III (CTIII) with mounting bracket 1015-3001	<i>Over 2,400 lbs/day cuber (all Hoshizaki^ models 2,000 to 2,400 lbs/day)</i>	\$1,671.00
Add on water treatment:		
1091-1011 - ScaleGone 1 (SG1)	Limescale inhibitor cartridge with Citryne®	\$366.45
1091-0011 - ScaleFree Booster (SFB)	Limescale inhibitor cartridge with Citryne®, up to 2,400lb/day cuber.	\$502.00
1091-0021 - ScaleFree Booster-R (SFB-R)	Replacement Cartridge for SFB	\$414.00

SHIPPING DIMENSIONS:

Dimensions and Weights are close approximations, packaging sometimes changes and may be larger or smaller.

Shipping F.O.B.: Bloomfield, NY or Chandler, AZ

2022 Freight Policy: Effective 01.01.2022, Any order under \$12,000 USD will not qualify for free inland freight. Customers will be charged any and all freight costs for orders under this amount. All orders over \$12,000 USD will qualify for freight allowed inland to your US location or inland port of departure for international shipments. Any international freight thereafter will need to be organized and paid for by the purchaser.

MODEL	DIMENSIONS	WEIGHT
ChillTech Slim	25x5x5	7 lbs.
ChillTech I	22x6x6	10 lbs.
ChillTech II	33x7x7	14 lbs.
ChillTech III	43x7x7	17 lbs.
*ChillTech Bracket	16x9x9	2 lbs.

** The ChillTech Bracket, if needed, may be shipped in a separate box.*

ChillTech Slim



Limited Warranty: The manufacturer (Systems IV®) warrants the original purchaser, that its product is free from defect in material and workmanship for a period of five-years from the date of purchase, if the product is installed in accordance with the manufacturer's instructions.

This warranty covers materials only. All labor costs are excluded from the warranty. This warranty excludes the costs of installation.

**Please refer to the ChillTech 5 Year Limited Warranty certificate for all other terms and conditions.

REGIONAL AVERAGES

ICE MACHINE KWH EFFICIENCY



AVERAGE ICE MACHINE MODELS		400	600	800	1000	1200	1800	2400
ESTIMATED KWH PER 24 HOURS IE: 8.5 X 3.30 =28.05		28.05	38.18	42.70	48.38	61.275	82.35	105
AVERAGE CYCLE DECREASE WITH CHILL TECH INSTALLED		20%	20%	20%	20%	20%	20%	20%
	AVG. KWH COST	NEW ENGLAND Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont						
ESTIMATED ANNUAL USAGE [RESIDENTIAL]	\$0.1968	\$2,014.888	\$2,742.546	\$3,067.226	\$3,475.232	\$4,401.506	\$5,915.365	\$7,542.360
ESTIMATED ANNUAL KWH SAVINGS W/CHILLTECH [RESIDENTIAL]		\$402.98	\$548.51	\$613.45	\$695.05	\$880.30	\$1183.07	\$1508.47
ESTIMATED ANNUAL USAGE [COMMERCIAL]	\$0.1530	\$1,566.452	\$2,132.162	\$2,384.582	\$2,701.781	\$3,421.902	\$4,598.836	\$5,863.725
ESTIMATED ANNUAL KWH SAVINGS W/CHILLTECH [COMMERCIAL]		\$313.29	\$426.43	\$476.92	\$540.36	\$684.38	\$919.77	\$1172.75
	AVG. KWH COST	MIDDLE ATLANTIC New Jersey, New York, Pennsylvania						
ESTIMATED ANNUAL USAGE [RESIDENTIAL]	\$0.1543	\$1,579.762	\$2,150.279	\$2,404.843	\$2,724.737	\$3,450.977	\$4,637.911	\$5,913.548
ESTIMATED ANNUAL KWH SAVINGS W/CHILLTECH [RESIDENTIAL]		\$315.952	\$430.056	\$480.969	\$544.947	\$690.195	\$927.582	\$1,182.710
ESTIMATED ANNUAL USAGE [COMMERCIAL]	\$0.1208	\$1,236.781	\$1,683.433	\$1,882.728	\$2,133.171	\$2,701.737	\$3,630.976	\$4,629.660
ESTIMATED ANNUAL KWH SAVINGS W/CHILLTECH [COMMERCIAL]		\$247.356	\$336.687	\$376.546	\$426.634	\$540.347	\$726.195	\$925.932
	AVG. KWH COST	EAST NORTH CENTRAL Illinois, Indiana, Michigan, Ohio, Wisconsin						
ESTIMATED ANNUAL USAGE [RESIDENTIAL]	\$0.1294	\$1,324.830	\$1,803.280	\$2,016.764	\$2,285.036	\$2,894.080	\$3,889.473	\$4,959.255
ESTIMATED ANNUAL KWH SAVINGS W/CHILLTECH [RESIDENTIAL]		\$264.966	\$360.656	\$403.353	\$457.007	\$578.816	\$777.895	\$991.851
ESTIMATED ANNUAL USAGE [COMMERCIAL]	\$0.0973	\$996.182	\$1,355.944	\$1,516.469	\$1,718.192	\$2,176.151	\$2,924.619	\$3,729.023
ESTIMATED ANNUAL KWH SAVINGS W/CHILLTECH [COMMERCIAL]		\$199.236	\$271.189	\$303.294	\$343.638	\$435.230	\$584.924	\$745.805
	AVG. KWH COST	WEST NORTH CENTRAL Iowa, Kansas, Minnesota, Missouri, Nebraska, N. Dakota, S. Dakota						
ESTIMATED ANNUAL USAGE [RESIDENTIAL]	\$0.1116	\$1,142.589	\$1,555.224	\$1,739.342	\$1,970.711	\$2,495.976	\$3,354.445	\$4,277.070
ESTIMATED ANNUAL KWH SAVINGS W/CHILLTECH [RESIDENTIAL]		\$228.518	\$311.045	\$347.868	\$394.142	\$499.195	\$670.889	\$855.414
ESTIMATED ANNUAL USAGE [COMMERCIAL]	\$0.0895	\$916.323	\$1,247.245	\$1,394.902	\$1,580.454	\$2,001.701	\$2,690.169	\$3,430.088
ESTIMATED ANNUAL KWH SAVINGS W/CHILLTECH [COMMERCIAL]		\$183.265	\$249.449	\$278.980	\$316.091	\$400.340	\$538.034	\$686.018
	AVG. KWH COST	SOUTH ATLANTIC Delaware, D.C., Florida, Georgia, Maryland, N. Carolina, S. Carolina, Virginia, W. Virginia						
ESTIMATED ANNUAL USAGE [RESIDENTIAL]	\$0.1172	\$1,199.923	\$1,633.264	\$1,826.621	\$2,069.600	\$2,621.222	\$3,522.768	\$4,491.690
ESTIMATED ANNUAL KWH SAVINGS W/CHILLTECH [RESIDENTIAL]		\$239.985	\$326.653	\$365.324	\$413.920	\$524.244	\$704.554	\$898.338
ESTIMATED ANNUAL USAGE [COMMERCIAL]	\$0.0926	\$948.062	\$1,290.446	\$1,443.217	\$1,635.196	\$2,071.034	\$2,783.348	\$3,548.895
ESTIMATED ANNUAL KWH SAVINGS W/CHILLTECH [COMMERCIAL]		\$189.612	\$258.089	\$288.643	\$327.039	\$414.207	\$556.670	\$709.779

REGIONAL AVERAGES

ICE MACHINE KWH EFFICIENCY (cont'd)



AVERAGE ICE MACHINE MODELS		400	600	800	1000	1200	1800	2400
	AVG. KWH COST	EAST SOUTH CENTRAL Alabama, Kentucky, Mississippi, Tennessee						
ESTIMATED ANNUAL USAGE [RESIDENTIAL]	\$0.1068	\$1,093.445	\$1,488.333	\$1,664.531	\$1,885.949	\$2,388.622	\$3,210.168	\$4,093.110
ESTIMATED ANNUAL KWH SAVINGS W/CHILLTECH [RESIDENTIAL]		\$218.689	\$297.667	\$332.906	\$377.190	\$477.724	\$642.034	\$818.622
ESTIMATED ANNUAL USAGE [COMMERCIAL]	\$0.1004	\$1,027.920	\$1,399.144	\$1,564.784	\$1,772.933	\$2,245.484	\$3,017.798	\$3,847.830
ESTIMATED ANNUAL KWH SAVINGS W/CHILLTECH [COMMERCIAL]		\$205.584	\$279.829	\$312.957	\$354.587	\$449.097	\$603.560	\$769.566
	AVG. KWH COST	WEST SOUTH CENTRAL Arkansas, Louisiana, Oklahoma, Texas						
ESTIMATED ANNUAL USAGE [RESIDENTIAL]	\$0.1068	\$1,093.445	\$1,488.333	\$1,664.531	\$1,885.949	\$2,388.622	\$3,210.168	\$4,093.110
ESTIMATED ANNUAL KWH SAVINGS W/CHILLTECH [RESIDENTIAL]		\$218.689	\$297.667	\$332.906	\$377.190	\$477.724	\$642.034	\$818.622
ESTIMATED ANNUAL USAGE [COMMERCIAL]	\$0.0765	\$783.226	\$1,066.081	\$1,192.291	\$1,350.891	\$1,710.951	\$2,299.418	\$2,931.863
ESTIMATED ANNUAL KWH SAVINGS W/CHILLTECH [COMMERCIAL]		\$156.645	\$213.216	\$238.458	\$270.178	\$342.190	\$459.884	\$586.373
	AVG. KWH COST	MOUNTAIN Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming						
ESTIMATED ANNUAL USAGE [RESIDENTIAL]	\$0.1130	\$1,156.922	\$1,574.734	\$1,761.162	\$1,995.433	\$2,527.287	\$3,396.526	\$4,330.725
ESTIMATED ANNUAL KWH SAVINGS W/CHILLTECH [RESIDENTIAL]		\$231.384	\$314.947	\$352.232	\$399.087	\$505.457	\$679.305	\$866.145
ESTIMATED ANNUAL USAGE [COMMERCIAL]	\$0.0909	\$930.657	\$1,266.755	\$1,416.722	\$1,605.176	\$2,033.013	\$2,732.249	\$3,483.743
ESTIMATED ANNUAL KWH SAVINGS W/CHILLTECH [COMMERCIAL]		\$186.131	\$253.351	\$283.344	\$321.035	\$406.603	\$546.450	\$696.749
	AVG. KWH COST	PACIFIC CONTIGUOUS California, Oregon, Washington						
ESTIMATED ANNUAL USAGE [RESIDENTIAL]	\$0.1416	\$1,449.736	\$1,973.295	\$2,206.907	\$2,500.472	\$3,166.937	\$4,256.177	\$5,426.820
ESTIMATED ANNUAL KWH SAVINGS W/CHILLTECH [RESIDENTIAL]		\$289.947	\$394.659	\$441.381	\$500.094	\$633.387	\$851.235	\$1,085.364
ESTIMATED ANNUAL USAGE [COMMERCIAL]	\$0.1233	\$1,262.376	\$1,718.272	\$1,921.692	\$2,177.318	\$2,757.651	\$3,706.121	\$4,725.473
ESTIMATED ANNUAL KWH SAVINGS W/CHILLTECH [COMMERCIAL]		\$252.475	\$343.654	\$384.338	\$435.464	\$551.530	\$741.224	\$945.095
	AVG. KWH COST	PACIFIC NON-CONTIGUOUS Alaska, Hawaii						
ESTIMATED ANNUAL USAGE [RESIDENTIAL]	\$0.2396	\$2,453.085	\$3,338.994	\$3,734.286	\$4,231.025	\$5,358.744	\$7,201.837	\$9,182.670
ESTIMATED ANNUAL KWH SAVINGS W/CHILLTECH [RESIDENTIAL]		\$490.617	\$667.799	\$746.857	\$846.205	\$1,071.749	\$1,440.367	\$1,836.534
ESTIMATED ANNUAL USAGE [COMMERCIAL]	\$0.2089	\$2,138.770	\$2,911.168	\$3,255.811	\$3,688.902	\$4,672.127	\$6,279.064	\$8,006.093
ESTIMATED ANNUAL KWH SAVINGS W/CHILLTECH [COMMERCIAL]		\$427.754	\$582.234	\$651.162	\$737.780	\$934.425	\$1,255.813	\$1,601.219

Ice productions are "general manufacturers ranges". Please check the ranges for your specific machine. Field conditions, air and water determine actual production increases. Check each manufacturers KWH specs for actual numbers Divide 24 hour production by 100.

As incoming water temperature increases, efficiency and savings of the ChillTech is also increased thus providing the "return on investment" much faster.