SYSTEMS IV® *the* CHILLTECH SERIES

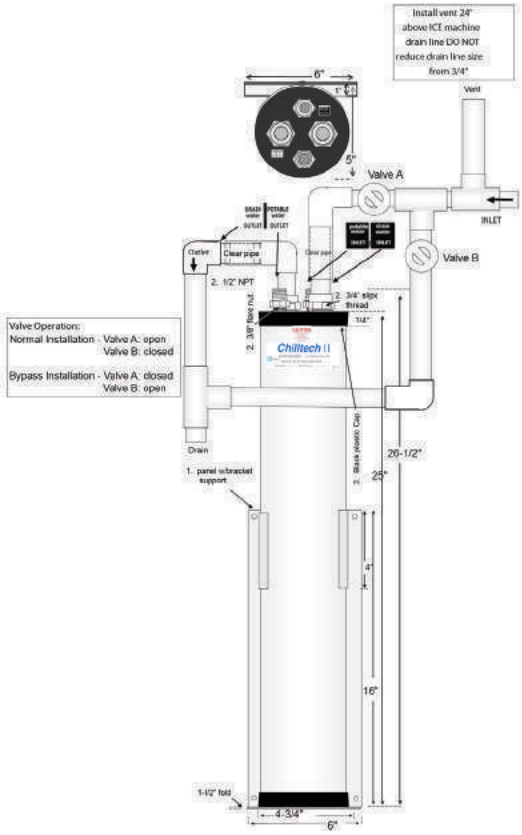
www.systemsiv.com

The **EXCLUSIVE** ChillTech Heat Exchange system lowers incoming water tempuratures to ice makers. This results in significantly reduced ice making cycle times, while lowering the kWh consumption by **20% or more** and **increasing ice making capacity by 20% 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" ABOVE ICE MACHINE DRAIN LINE – DO NOT REDUCE DRAIN LINE SIZE FROM 3/4"

Benefits

- *Increases ice production up to 20% or more!*
- *Lowers kWh consumption by up to 20%*
- *Stand alone product*
- *No electricity required*
- *Easily connects to cold water feed line*
- *2 year parts warranty*

MODELS

Model	Part #	Availability
ChillTech Slim	*CTSlim*	*In Stock*
ChillTech 1	*CTI*	*In Stock*
ChillTech 2	*CTII*	*In Stock*
ChillTech 3	*CTIII*	*In Stock*

Shipping ..... Same Day
Line Size ..... 1/2"

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.

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the CHILLTECH ADVANTAGE

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.

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.*

Temperature Reduction

We have found **ChillTech** *notonly 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 percent.*

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

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 Makers (Modular up to 600 lbs/day)*
- **ChillTech I –** *Up to 1,200 lbs/day cuber (Hoshizaki^ models up to 600 lbs/day)*
- **ChillTech II –** *Up to 2,400 lbs/day cuber (Hoshizaki^ models up to 1,800 lbs/day)*
- **ChillTech III –** *Over 2,400 lbs/day cuber (Hoshizaki^ models 2,000 to 2,400 lbs/day)*

"Reduce energy consumption by 20% or more and increase ice production by up to 30% or more while extending the life of your ice makers."

The ChillTech "Family"

CTI Cutaway

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.*

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.

How long will it take for the customer to know the 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 issue... This product is about as green as it gets!*

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 was by using **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 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 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 [ ] / *kWh Used* [ ] X [*Dailyice prod.* [ ] / *100* [ ]] *kWh per 100lbs x 0.3 x 365 = $* [ ]

[ ] *= 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.*

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** *bringsto the ice maker.*

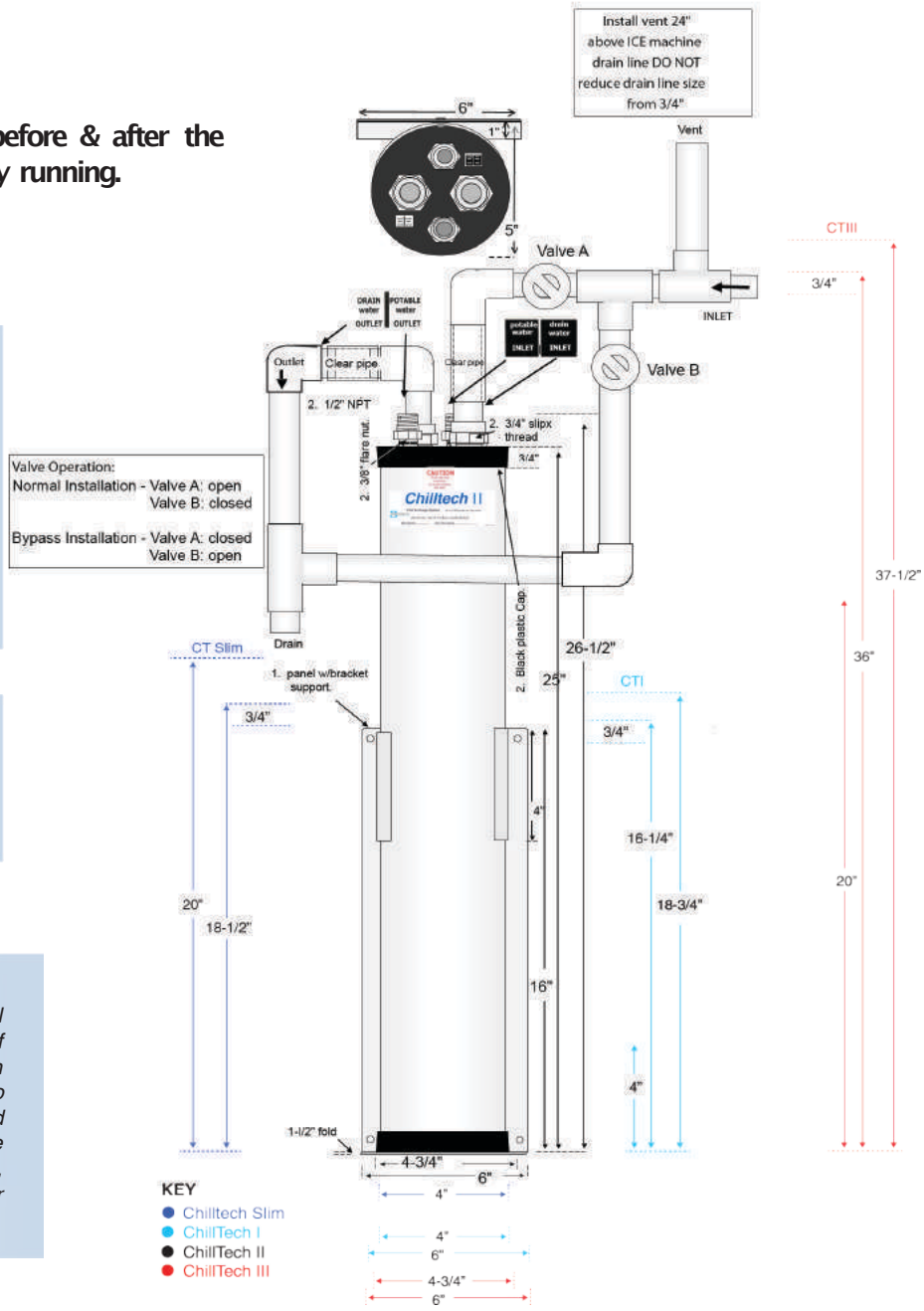
An ice maker installed with a **SystemsIV®ChillTech** *will reduce freeze times and increase ice making production. There are no electrical hook-ups. The unit is self cleaning, reduces water consumption, increases capacity, has no moving parts, is maintenance free and is simple to install to new or in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

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

Typical **ChillTech** *IceMaker 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** *modelsnow come from the factory with 2 pieces of clear tubing and the mounting bracket.*



LimitedWarranty: *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.*

2022 CHILLTECH PRICING

MODEL	DESCRIPTION	LIST
ChillTech Slim *w/bracket*	*Designed specifically for ALL Under Counter Ice Makers for horizontal install. (also up to 600lb/day Modular Ice Makers)*	**$741.05**
ChillTech I *(CTI) w/ bracket*	*Up to 1,200 lbs/day cuber (all Hoshizaki^ models up to 600 lbs/day)*	**$745.00**
ChillTech II *(CTII) w/bracket*	*Up to 2,400 lbs/day cuber (all Hoshizaki^ models up to 1,800 lbs/day)*	**$1,346.35**
ChillTech III *(CTIII) w/bracket*	*Over 2,400 lbs/day cuber (all Hoshizaki^ models 2,000 to 2,400 lbs/day)*	**$1,577.00**

*2022 Freight Policy: New inland freight policy effective 01/01/2022: Any order of $10,000 or more qualifies for free inland USA freight to the port of departure. Orders under $10,000 will not qualify for free inland freight and any freight costs will be added to the invoice for said purchase order.**

SHIPPING DIMENSIONS: *Dimensions and Weights are close approximations packages may be bigger or smaller once shipped*

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, is separate. It will be shipped in it's own individual box.*

Limited Warranty: Manufacturer warrants to the original purchaser that it's product is free from defects 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 Limited 5 Year Warranty certificate for all other terms and conditions

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REGIONAL AVERAGES
ICE MACHINE KWH EFFICIENCY

SYSTEMS IV CHILLTECH

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** Deleware, 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

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REGIONAL AVERAGES
ICE MACHINE KWH EFFICIENCY (CONT'D)

SYSTEMS IV CHILLTECH

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.

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