

CHILLER TANK SYSTEMS



CTS Chiller Tank and Pump Systems

ICE CTS Series Chiller Pump Tank Systems deliver superior performance to your central chilled water system. Designed to operate compatibly with any central chiller module, this unit integrates a chilled water reservoir factory-piped and matched by Budzar Engineers to your process operation on demands.

CTS units are capable of handling chiller capacities from 25 to 200 nominal tons.

Budzar also designs and manufactures specialized equipment for non-standard applications. Our engineers have extensive experience in process chilling and heating applications for such industries as: rubber, paper, plastics, chemical, food, and metal working. We take the time to understand your current and future needs and design a solution targeted at high quality and fast payback.



Bulletin #41

engineering
PRECISION

EXCELLENT RETURN ON INVESTMENT

- Each Budzar unit is designed to maximize the productivity of your process. Budzar quality and reliability provide excellent value for each dollar invested.
- Optional stand-by pumps eliminate down time and keep your process running.

LOW-COST, SIMPLE OPERATION AND MAINTENANCE

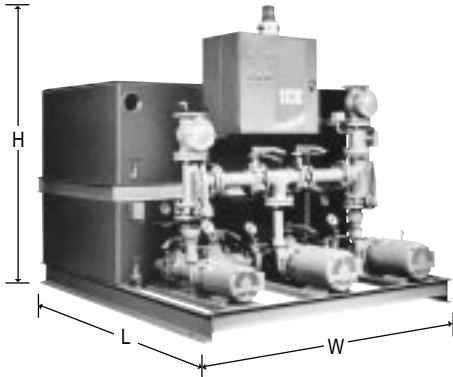
- Console-mounted high temperature, low pressure audible and visual alarms for process fluid supply allow you to attain peak process performance at all times.
- Insulated dual well reservoir is constructed of heavy gauge, epoxy coated mild steel or optional stainless steel.
- Close-coupled, centrifugal pumps with mechanical seals are selected for non-overloading conditions. Long-coupled, base-mounted pumps are optional.
- All pumps include lug-type isolation valves that remain stationary to permit complete pump removal without the inconvenience of water or fluid spillage.

QUICK AND EASY INSTALLATION

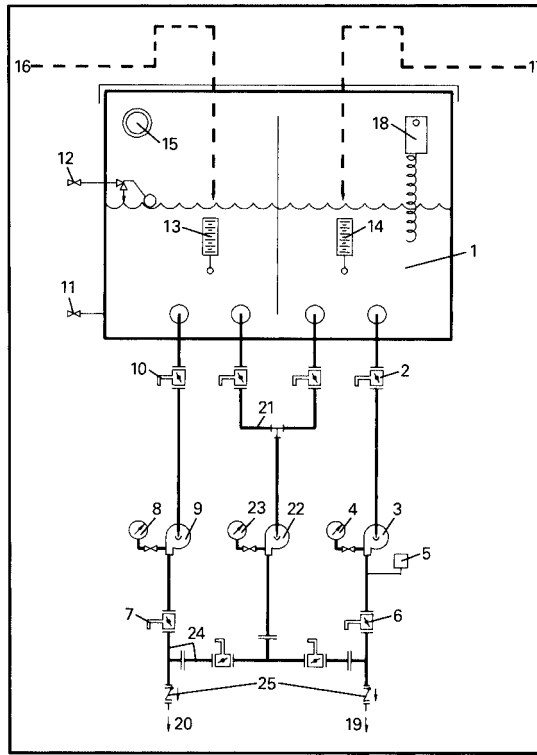
- Completely factory-assembled pump decks on a common skid minimize the time needed for field set-up – simply connect supply and return water mains electrical power.
- All units are factory tested prior to shipment.



process
TEMPERATURE
control



Model CTS-075DH with optional stand-by pump and manifolding. Unit shown with high temperature/low pressure alarm light with horn. Insulation is a standard feature.



1. Insulated Reservoir, Baffle, with Cover
2. Suction Shut-Off Valve
3. Process Pump
4. Process Water Pressure Gauge
5. Low Pressure Alarm Switch
6. Process Water Flow Control/Shut-Off Valve
7. Chiller Water Flow Control/Shut-Off Valve
8. Chiller Water Pressure Gauge
9. Chiller Pump
10. Suction Shut-Off Valve
11. Drain Valve
12. Make-Up Water Float Valve with Shut-Off Valve
13. Return Water Thermometer
14. Supply Water Thermometer
15. Overflow Port
16. Return from Process
17. Return from Chiller
18. High Temperature Alarm Thermostat
19. Supply to Process
20. Supply to Chiller

Options As Shown

21. Standby Pump Suction Manifold
22. Standby Pump
23. Standby Pump Pressure Gauge
24. Standby Pump Discharge Manifold
25. Discharge Check Valve

CTS DUAL PUMP HIGH FLOW CHILLER TANK

(Minimizes Δ T at your Process)

MODEL CTS		CTS-025DH	CTS-050DH	CTS-075DH	CTS-100DH	CTS-150DH	CTS-200DH
Nominal Duty -	TONS	25	50	75	100	150	200
Tank Size L x W x H -	FEET	2.5 x 5 x 3	4 x 5 x 4	4 x 6 x 6	4 x 6 x 6	5 x 7 x 6	6.5 x 7.5 x 7
Tank Capacity - Overflow -	GALLONS	220	500	950	950	1,400	2,250
Operating -	GALLONS	140	300	600	600	900	1,400
Chiller Pump - Flow -	GPM / PSI	60 / 23	120 / 19	180 / 24	240 / 27	360 / 24	480 / 25
Pump Motor -	HP	1.5	3	5	7.5	10	15
Discharge Connection -	INCHES	2 NPT	2.5 - 125#	3 - 125#	4 - 125#	6 - 125#	6 - 125#
Process Pump - Flow @ 60 PSIG -	GPM	120	240	360	480	720	960
Pump Motor -	HP	7.5	15	20	25	40	60
Discharge Connection -	INCHES	2.5 - FLG	4 - FLG	6 - FLG	6 - FLG	6 - FLG	8 - FLG
Nameplate Amps @ 460 / 3 / 60 -		13.6	25.8	34.6	45.0	66.0	98.0
230 / 3 / 60 -		27.2	51.6	69.2	90.0	132.0	196.0
Connections (NPT) Overflow -	INCHES	2	3	4	4	4	4
Makeup -	INCHES	1/2	1/2	1/2	1/2	1/2	1/2
Drain -	INCHES	1 1/2	1 1/2	2	2	2	2
Shipping Weight (Approx.) -	LBS	950	1,700	2,000	2,400	4,200	7,100
Operating Weight (Approx.) -	LBS	2,800	5,900	10,000	10,500	15,900	25,800
Dimensions (Approx.) WxLxH -	INCHES	64x76x60	64x92x75	64x100x82	76x102x82	88x122x82	94x142x94

NOTE: Standby pumps are available for all models, (mounted, piped and wired) as a recommended option. Standby pumps available to match chiller pump, process pump, or both.

CTS EQUAL FLOW DUAL PUMP CHILLER TANK SYSTEMS

MODEL CTS		CTS-025DE	CTS-050DE	CTS-081DE	CTS-125DE	CTS-187DE	CTS-250DE	CTS-356DE
Chiller Pump - Flow -	GPM / PSI	60/23	120/19	195/20	300/23	450/22	600/26	855/26
Pump Motor -	HP	1.5	3	5	7.5	10	15	20
Process Pump - Flow @ 60 PSIG -	GPM	60	120	195	300	450	600	855
Pump Motor -	HP	5	7.5	10	15	25	30	40
Nameplate Amps @ 460 / 3 / 60 -		10.2	15.8	21.6	32	48	61	79
230 / 3 / 60 -		20.4	31.6	43.2	64	96	122	158

NOTE: Standby pump is available for all models, (mounted, piped and wired) as a recommended option. Standby pump is identical to Process pump.

CTS SINGLE PUMP CHILLER TANK SYSTEMS

MODEL CTS		CTS-025S	CTS-050S	CTS-081S	CTS-125S	CTS-187S	CTS-250S	CTS-356S
Process/Chiller Pump - Flow @ 60 PSIG -	GPM	60	120	195	300	450	600	855
Pump Motor -	HP	5	7.5	10	15	25	30	40
Nameplate Amps @ 460 / 3 / 60 -		7.6	11	14	21	34	40	52
230 / 3 / 60 -		15.2	22	28	42	68	80	104

NOTE: Standby pump is available for all models, (mounted, piped and wired) as a recommended option. Standby pump is identical to Process/Chiller pump.

Budzar Industries reserves the right to discontinue or change specifications without notice, consistent with sound engineering practice and current industrial standards.



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