

TEMPTEK

Simple economics tells each processor that in order to increase profits . . . one must reduce costs and increase productivity. TempTek evaporative cooling tower cells are cost-attractive in price, reliable in construction and operation . . . the answer to producing efficient, economical process cooling by recycling and reusing water . . . reducing your costs and increasing your productivity . . .

TempTek cooling towers are offered in two styles of construction . . . metallic or fiberglass. Metallic shells are made of a carbon steel structural skeleton and skin, all coated with a heavy layer of galvanize. Fiberglass shells are built with a thick layer of reinforced resin, gel coated and UV stabilized. With either choice, long term corrosion resistance is ensured.

Energy savings are realized by the T.E.F.C. electric motor. Metallic and larger fiberglass cells use a V-belt assembly to drive the large volume prop fan. Other fiberglass models employ a direct drive fan and motor assembly. All motors can be thermostatically staged for proper temperature control. With the limited number of moving parts, TempTek towers are virtually trouble free and service/maintenance if required . . . is a breeze.

Water from process is supplied to the zero pressure basin on metallic cells. "Target" nozzles then gravity feed the water over the wet deck. Fiberglass cells use a pressurized PVC header system with large orifice, non-clogging nozzles to disperse the process water over the wet deck.

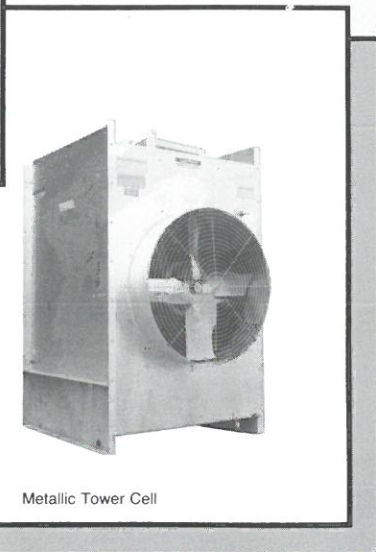
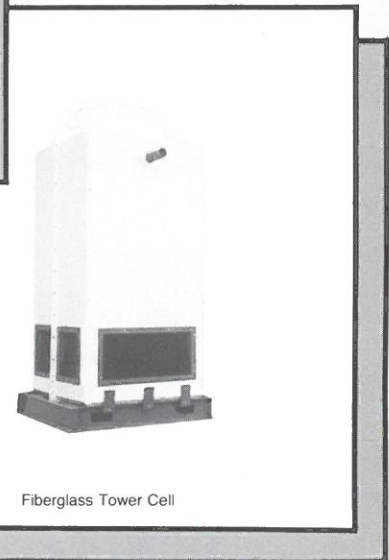
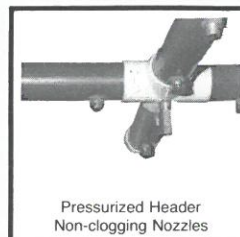
Both styles are equipped with a modular PVC wet deck construction. The zig-zagging honeycomb tunnels allow for a high level of surface contact between air and water for maximum evaporation and cooling. Since metallic cells induce a cross air flow, drift eliminators are built into the fill. On fiberglass cells, 4" of drift

is layered between the header and fan to prevent back drafting of water spray.

Oversized basins collect cooling water and gravity feeds it to the pump tank. When the TempTek tower cell is teamed with the TempTek pump tank, the combination results in the most cost-effective and productive plant wide distribution of cooling water . . . a matter of simple economics.

Metallic cells are available in capacities ranging from 10 tons to 200 tons. Fiberglass cells are available in sizes of 35, 75, and 120 tons. By parallel installation of fiberglass cells, capacities ranging from 150 to 480 tons can be achieved. Each cell requires 3 gpm/ton of capacity. All tower cells are rated for standard conditions of 78° F. wet bulb, 95° F. entering water temperature (EWT), 85° F. leaving water temperature (LWT). Generally, the capacities of tower cells increase as the wet bulb, ambient, and water temperatures decrease.

As a new/replacement system or the expansion of an existing system, TempTek tower cells are economical, efficient and reliable . . . the choice is yours! Consult your independent TempTek dealer or the TempTek corporate office for more information and sizing/selection assistance.



TEMPTEK®
"TEMPERATURE TECHNOLOGY"
FOR INDUSTRY

Box 1152 525 E. Stop 18 Road
Greenwood, IN 46142
317-887-6352 Fax 317-881-1277

®

TEMPTEK TEMPERATURE CONTROLLERS WATER & OIL

TempTek temperature controllers are built for economy in cost and reliability in operation. They are "at home" controlling temperature to the right degree for any process needing fluid stabilized temperatures.

Temperature controllers are available in both water and oil mediums. Water units are available in single or dual zone configurations controlling temperatures up to 250°F. Oil circulating units are available in single zones only and control up to 400° F temperatures.

On the outside . . . TempTek units are space efficient and esthetically attractive. Utilizing compact frames mounted on 2 1/2" castors, the temperature controller can easily be rolled close to the process. With an optional umbilical cord, the control instrument can be detached and remotely located near the operator.

Whether installed in a remote location or left on the machine, the controller interfaces with the operator through large, bright and easy to read digital temperature indicators and functional l.e.d.'s for power, pump, heat and cool. The microprocessor based instrument controls temperature by cycling the heating elements and cooling solenoid valve at precisely the right moments to achieve the desired process water/oil temperature.

On the inside . . . Water units employ a custom heater/tank assembly in 9 or 12 kw flange mounted directly into the pump. If a new heater is required, the entire heater/cylinder assembly is replaced . . . at a cost less than traditional heaters and with a clean start. Oil units come standard with either 12 or 18 kw heaters flanged mounted to the tank.

Open circuit water units reject unwanted heat by cycling a 3/8" solenoid valve. Oil units achieve cooling through natural heat dissipation, but can use the optional closed circuit kit to cool process oil through heat rejection.

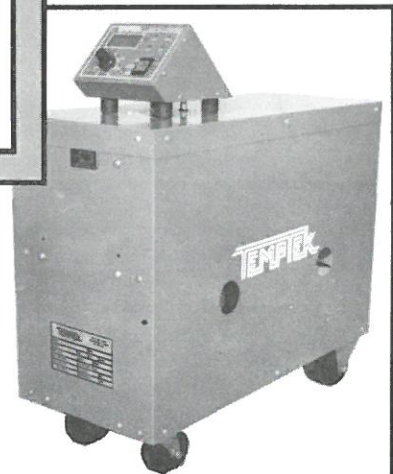
All temperature controllers utilize centrifugal pumps to generate high turbulent flow. Water units can use 3/4, 1 or 1.5 HP motors for 20 to 40 gpm at 30 psi. Oil units use 1 or 2 HP motors and are equipped with seal cooling to enhance the life of the pump seal. With the optional multizone manifold kits, higher flow/heating/cooling rates can be achieved by connecting in-line standard units.

Additionally, both water and oil units come standard with high temperature safeties to protect the operator and equipment. Pump motor overload protection is also provided on both styles. A 10 foot power cord is supplied to make installation of 230/460/3/60 voltages an easy process. Simply apply power to the unit, turn it on, set the desired temperature, and let the TempTek temperature controller do the rest . . . precision control from a unit that is economically cost-attractive, operator friendly and easy to maintain.

Whatever your process and temperature requirements, TempTek temperature controllers are the economical and reliable choice. Contact your independent TempTek dealer or the TempTek corporate office for additional information and sizing/selection assistance.



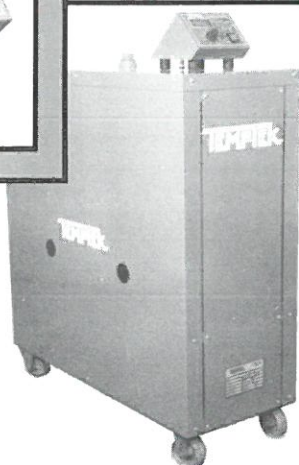
TC Series
Control Instrument



Water Temperature Controller



TCO Series
Control Instrument



Oil Temperature Controller

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TEMPTEK, INC. Box 1152 1760 Profit Dr.
Greenwood, IN 46142

317-887-6352

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MODEL 88EM PRESS SIDE GRANULATOR

8" x 8" HOPPER & CUTTING CHAMBER OPENING

MODEL 88EM, 3HP, 230-460V/3PH/60HZ, 1/4" or 5/16"screen..... \$4,100.00

HOPPER: Front feed type, mail chute design, hinged, easy opening for cleaning and service.

NOISE CONTROL: Engineered to meet 90 dba or less for most materials. Hopper is manufactured of a special sound deadened STEEL - PLASTIC - STEEL laminate which reduces resonant noise.

CUTTING CHAMBER: Tangential feed design. Heavy duty welded steel construction.

BEARINGS: Oversized, outboard mounted, self aligning, pillow block bearings. Separated from the cutting chamber to eliminate heat build-up, fouled bearings and grease contamination of granulate.

ROTOR: 3 blade open type with knives mounted at a steep angle and counter-angled to the bed knives to provide a precision scissor cut.

KNIVES: 3 rotor, 2 bed, manufactured of D2, high carbon/high chrome tool steel.

SCREEN: Choice of 1/4" or 5/16" diameter holes, reversible.

SCREEN CRADLE: Hinged, drops open for easy cleaning and servicing.

MATERIAL BIN: Metal bin, easy handling.

DRIVE: 3HP, ODP Motor, "V" belt drive.

ELECTRICAL CONTROLS: Magnetic starter with thermal overload, start/stop buttons, reduced voltage (120 volt) control circuit, NEMA 1 enclosure.

SAFETY FEATURES: Hopper and screen cradle are electrically and mechanically interlocked with a time delay safety bolt to prevent operation when machine is opened for service.

FLOOR SPACE: 30" x 19"

PAINT: Temptek Green

**HEIGHT TO
INFEEED TRAY:** 47"

**SHIPPING
WEIGHT:** Approximately 550 lbs.

PUMP TANKS & PROCESS PUMPS

TEMPTEK[®]

A reservoir tank for storing tower or chilled water is the only economical approach to properly distribute recycled water through out any process. TempTek has recognized the importance of utilizing the vertical dimension for water storage and has uniquely designed tanks that require less floor space . . . allowing more room for processors to increase their production capacities.

Field assembled from four kits (tank, pumps, starter and valve kits), the processor is able to reduce his capital investment and reap the benefits of a durable and dependable tank system.

TempTek tanks are constructed of 3/16" steel plates that are two pass welded and mounted on a tubular steel structural base. All interior wetted surfaces are epoxy/tar resin coated to prevent corrosion. A thick layer of primer is coated on all exterior surfaces before a final rust preventive enamel is applied. Space conscious and free of any connections or ports on three sides, tank sets are able to be placed in a corner or close to other objects.

Utilizing the vertical dimension for water storage, tanks

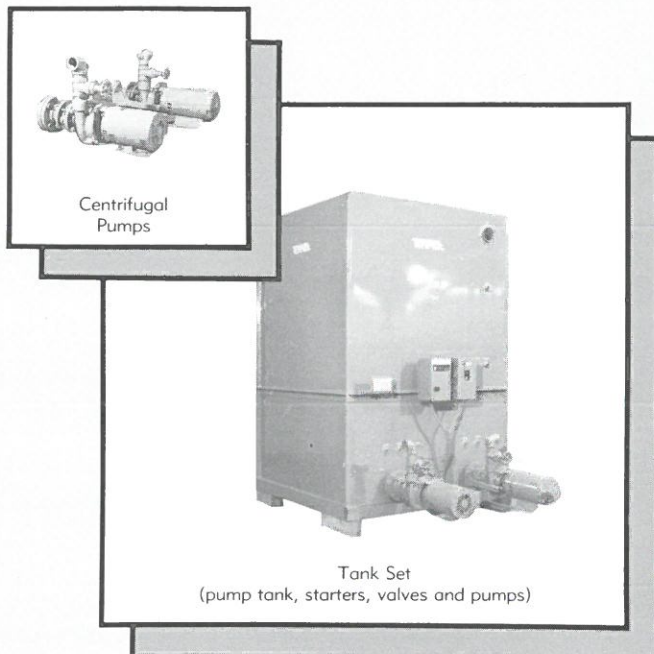
are available in overflow capacities of 250 to 1800 gallons. All tanks are equipped and ready for single or dual pump configurations. Flanged connections are provided for assembly of the process and recirculation pumps. Standardized connections for temperature and pressure sensors, water level control, overflow and drains make installation of the tank set a very simple procedure.

TempTek centrifugal pumps are selected for high reliability, ease of installation, and high turbulent flow for maximum heat transfer. Pumps ranging from 1 to 30 horsepower generating flow rates of 30 to 500 gpm at pressures of 30 to 69 psi. Recirculation pumps can be thermostatically staged to maintain proper temperature control upon demand. Pump selections depend on the process conditions, with single or dual pump configurations important items to consider.

TempTek tanks can be used in both tower or chilled water applications. Chilled water pump tanks include 1/2" insulation on all exterior surfaces to prevent condensation and heat gain. An optional hinged tank cover can also be included.

Tanks, pumps, starters, valve kits and any other accessories are all separate components to make the expansion of existing systems or installation of new systems a simple, easy process . . . and economically affordable!

TempTek tanks teamed with TempTek chilling modules or tower cells create the most economical, efficient and reliable plant-wide distribution of process cooling water. Contact your independent TempTek dealer or the TempTek corporate office for further information and sizing/selection assistance.



Centrifugal
Pumps

Tank Set
(pump tank, starters, valves and pumps)

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