# JUNGLE MIST SYSTEM ANTI-DRIP™ Operating Instructions

110 VAC P/N 100071 230VAC P/N 100079

- □ Thank you for purchasing this Jungle Mist System Anti-Drip<sup>™</sup>
- As you will notice from the table of contents, the manual for your new pump is quite extensive. To guarantee perfect and successful work with this machine, please take time to read the manual carefully.
- Do not operate before changing oil cap!
- □ And finally, we believe you will enjoy many years of dependable, trouble free service if you properly install and maintain this powerful piece of machinery called the Jungle Mist System Anti-Drip™

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## 1. Equipment Supplied

□ Jungle Mist System Anti-Drip<sup>TM</sup> (110V P/N 100071; 230V P/N 100079 (Please see section 5.2 for a complete checklist.)

## 2. Accessories and Parts

- □ Universal DMX Relay 3 pin XLR, Heavy Duty (P/N 250042)
- □ Nozzle cleaner (8oz bottle P/N 600741; 1-gal bottle P/N 600742)
- □ Tubing (50ft roll P/N 600730; 100ft roll P/N 600731)
- □ Nozzles (0.008" nozzle P/N 600723; 0.012" nozzle P/N 600724)
- □ Please refer to parts list below for additional Jungle Mist System<sup>™</sup> parts

250042	Universal DMX Relay 3-pin XLR, Heavy Duty
600720	Filter Housing with Bracket Kit
600721	5-Micron Sediment Filter Cartridge
600722	1.5" Automatic Drain Valve
600723	.008 Nozzle with 10/24 Thread (fine)
600724	.012 Nozzle with 10/24 Thread (heavy)
600725	Push Connector Quick Device - Tee Only (included)
600726	Push Connector Quick Device - Tee with Fine Nozzles (.008)
600727	Push Connector Quick Device - Tee with Heavy Nozzles (.012)
600728	Nylon Tubing 3/8" (1cm) OD (price per foot)(30.5cm)
600729	Nylon Tubing 3/8" (1cm) OD (28" length) (included)(71.1cm)
600730	Nylon Tubing 3/8" (1cm) OD ((50' roll)(15.2m))
600731	Nylon Tubing 3/8" (1cm) OD ((100' roll)(30.5m))
600732	Tubing Cutter
600733	Push Connector Quick Device - Brass Hose Adapter
600734	Push Connector Quick Device - End Plug (included)
600735	Push Connector Quick Device - 3/8" MIP Adapter (included)
600736	Push Connector Quick Device - Brass 90 Elbow (included)
600737	Push Connector Quick Device - Three-way Tee (included)
600738	Push Connector Quick Device - 4-Way Cross
600739	½" Brass Nozzle Extension
600740	1½" Brass Nozzle Extension
600741	8 oz. Bottle of Nozzle Cleaner (240 ml)
600742	1 Gallon Bottle of Nozzle Cleaner (3.8 I)
600743	Anti-Drip Extension with .008 (fine nozzle)(included)
600744	Anti-Drip Extension with .012 (heavy nozzle)
600746	3/8" (1cm) Steel Clamp Vinyl-Coated Tie Wraps (included)
600747	10/24 Nozzle Plug
600748	.008 Nozzle O-Ring (Red) (included)
600749	.012 Nozzle O-Ring (Black)
600751	1/4" HP Solenoid Valve 110 N.O. with Setup
600752	Push Connector, coupling
600754	5-Nozzle Mist Pod without Nozzle
600755	Push-Connector Quick Device Brass Union
600756	2000 PSI Pressure Gauge
600758	Labor Pump Assembly
600759	10' Low-Pressure Tubing
600760	5' Low-Pressure Tubing with Hose Adapter (1.5m)
600761	3' Low-Pressure Tubing for Filter to Pump (90cm)
600762	2' Low-Pressure Tubing for Drain to Bucket (60cm)
600763	1 Gallon Bottle (Drain Container)
600764	Oil Plug with Warning Sign
600765	Jungle Mist Instruction Booklet and Price Sheet

600766	Set of 4 Wheels	
600768	600768 2X Push-Connector Auto Drain-down (anti-freeze)	
600770 Pump Water Seal Kit		
600771	6 Valve Rebuild Kit	
600780 5 head nozzle .008 w/ anti-drip adapter		
600781 5 head nozzle .012 w/ anti-drip adapter		
600782	Push-con Union	

## 3. Safety Information

#### 3.1 WARNING: Read through the entire instructions before attempting installation.

- Risk of electrical shock This pump is supplied with a grounding conductor. To reduce risk of electrical shock, connect only to a properly grounded, grounding type receptacle.
- Have a qualified electrician wire the pump to a dedicated, fused circuit.
- Install pump on a flat, level, solid foundation. This pump is non-submersible.

#### 3.2 CAUTIONS:

- Before operation replace non-vented oil reservoir cap with vented one which
  you will find shipped in the electrical junction box. Failure to replace this cap
  will void the warranty. Pump must be able to breathe. (See section 6.1 for more
  details.)
- Pump warranty is voided by failure to use factory- supplied filter on water supply! Water filter is installed on water INLET line! (See section 7.3 for more details.)
- To reduce risk of electric shock, disconnect power before servicing this pump.
- Maximum design pressure is 800 PSI (55 bar) continuous. Under no circumstances should the pressure be allowed to go higher than 1000 PSI (69 bar).
- This pump has been evaluated for use with water only. Do not use with any other liquids.
- To reduce risk of electric shock, install with all electrical components well-grounded and dry.

## 4. Grounding Instructions

- The pump should have a dedicated circuit
- The pump MUST BE GROUNDED! In the event of a malfunction or breakdown, grounding will reduce the risk of electric shock by providing a path of least resistance for the electric current. Install electrical hookup in accordance with all local codes and ordinances. Warning: Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician if you are in doubt whether the pump is properly grounded. Never use a two-prong outlet or cut off the third prong on the plug!

## 5. Receiving and Unpacking

#### 5.1 CHECKING FOR DAMAGE IN SHIPPING

• Carefully examine contents for signs of damage in shipping. Immediately notify the carrier if damage is detected that was not visible upon receipt of shipment.

## 5.2 CHECKING INVENTORY OF PARTS

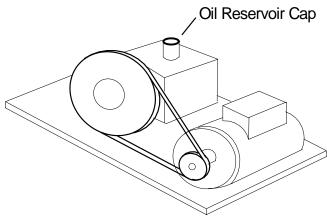
## Jungle Mist System Anti-Drip<sup>™</sup> (110V P/N 100071; 230V P/N 100079)

CITC			
ITEM#	QTY.	PART DESCRIPTION	Received
600791 1		JMS – 1 gpm 1hp 110VAC Pump Only (230VAC version P/N 600792)	
600720	1	Filter Housing with Bracket Kit	
600721	1	5-Micron Sediment Filter Cartridge	
600725	35	Push Connector Quick Device – Tee Only	
600729	35	Nylon Tubing 3/8" OD (28" Length)(71.1cm)	
600730	1	Nylon Tubing 3/8" OD (50' Roll)(15.2m)	
600732	1	Tubing Cutter	
600733 1 Push Connector Quick I Hose Adapter		Push Connector Quick Device – Brass Hose Adapter	
600734	4	Push Connector Quick Device – End Plug	
600736	3	Push Connector Quick Device – Brass 90 Elbow	
600737	3	Push Connector Quick Device – Three Way Tee	
600743	35	Anti-Drip Extension with .008 nozzle	
600746	75	3/8" Steel Clamp Vinyl Coated with Tie Wraps	
600759	6	Feet Low Pressure Tubing (drain tube)	
600764	1	Oil Plug with Warning Sign	
600738		4-way Tee Push Connector	
	1	Jungle Mist System Anti-Drip <sup>TM</sup> Instruction Booklet	

## 6. Pump Start-up Procedure

#### 6.1 OIL RESERVOIR CAP REPLACEMENT

- The unit is shipped with a non-vented oil reservoir cap. The unit has to be sealed in order to prevent leakage of the oil during shipping. In order to operate the unit, YOU MUST REPLACE THE NON-VENTED CAP WITH THE ENCLOSED VENTED OIL RESERVOIR CAP (BREATHER CAP).
- Operation of the machine without removing the plug and replacing it with the breather cap WILL VOID THE WARRANTY. Do not operate this unit until the breather cap has been installed. To replace the non-vented cap first find the breather cap, which is shipped in the electrical junction box.
- LOOSEN THE SCREWS ON THE COVER, REMOVING IT ENTIRELY. On top of the pump, next to the motor is a cap where the oil is added. Remove the cap, replacing it with the breather cap provided.
- Keep the non-vented cap where you can find it as you will need to install it again before sending the unit by freight. Replace the vented cap for any transport to prevent oil spillage.



#### 6.2 PUMP PREPARATION

- Check belt tension to insure belt has not loosened during shipping. It should not move more than ½" (13mm).
- Check oil level with dipstick and/or sight gauge. The proper level is ½ full on sight gauge. You may also use the dip stick on the breather valve. This is where you may add 30 wt. non-detergent oil when needed. Check the oil each 200 hours of operation.

## 7. Hooking up the Pump

#### 7.1 INSTALLATION OF PUMP

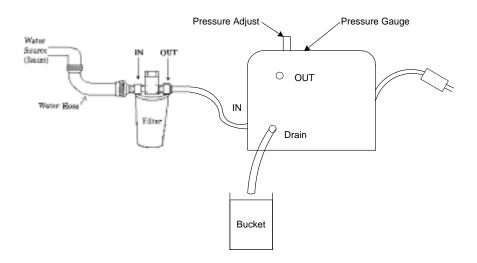
 The pump should be set inside a covered area on a level surface such as a stage or platform. Having the pump level will insure proper lubrication to the internal parts in the pump. Do not set it on a soft surface as the vibration will sink the unit.

#### 7.2 WATER SUPPLY

• Insure that the water source being used can supply enough water for the demand of the pump. Use a minimum ¾" hose (19 mm). This unit does not use suction to pull from a water source. Provide at least 40 PSI (2.8 bar) of clean water

#### 7.3 WATER FILTER INSTALLATION

NOTE! Use factory-supplied water filter in water supply to the pump.
 Contaminants in water can damage pump and plug nozzles if filter is not used!



- Connect the larger water supply line to the CITC filter assembly (mount near the pump, possibly on frame of a dolly or a wall if permanently installed). Simply connect the hose onto the filter.
- Before connecting to pump, run water through the hose, then the CITC filter for thirty seconds to flush the line and avoid any contaminants entering the pump, then connect the 3-foot long tubing from the filter to the "IN" connection on the pump.
- If using a new hose, rinse the hose for ½ hour to flush out odors.

#### 7.4 ANTI-DRIP EXTENSION

- The anti-drip feature stops drips from occurring when stopping and starting the Jungle Mist System Anti-Drip<sup>TM</sup>. Each time you stop the system, the auto-drain valve removes a slight amount of water to reduce pressure (1/4 cup) to drain into the bucket supplied. For testing, place a bucket at rear of pump under tube coming out of the machine in the back marked DRAIN. For permanent installation run a hose from the DRAIN outlet to a convenient sewer drain.
- When using the anti-drip system, do not install auto-drain valves (not supplied). (The auto-drain valves, used with the regular Jungle Mist System<sup>TM</sup>, are installed in line with the nozzles to drain the mist line for protection from freezing damage when not in use.)

## 8. Mist Line Layout Strategies

#### 8.1 LIGHT, MEDIUM OR HEAVY HAZE

- Light Use 35 fine nozzles (0.008")
- Medium Use 20 fine, 10 heavy nozzles (0.012"), alternating every 2 or 3 fine nozzles with a heavy nozzle for a total of 30 nozzles.
- Heavy Haze Mist Use 25 heavy nozzles (0.012") for thickest mist in low humidity areas.
- Note: the driest mist will be the light mist. Order heavy nozzles for medium or heavy haze (additional).

#### 8.2 INDOOR FOG CURTAINS

• Use 35 fine nozzles pointed straight down for the driest mist. If wetness is not a problem, mix for medium or heavy, being sure to point nozzles down from high position. Downdraft can pull in fog from fog machines adding another dimension.

#### 8.3 RAISE HUMIDITY TO KEEP DUST DOWN

Point nozzles away from anything close by - mist shoots away up to 6'-8' (1.8 - 2.4m) in cone shape of 18" (46cm) diameter. Alternate nozzles horizontally pointing opposite directions to reduce dust from the air. This added moisture removes dust by clinging to the dust and dragging it down out of the air, making the air smell fresh and clean.

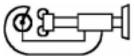
#### 8.4 PROJECT IMAGES AND LASERS

Hang nozzles in a straight line at 18' – 20' (5.1 – 6.1m) high, pointing downward.
The 35 fine nozzles will need to be closer together. Cut tubing 6" – 12" (15 – 30cm) shorter, testing thickness of screen necessary. Once in place, be sure all nozzles are pointed straight down without wind or air movement. Project from rear of water screen, being sure no other lights are illuminating the screen, unless for effect.

## 9. Mist Line Assembly

#### 9.1 TUBING CONNECTION

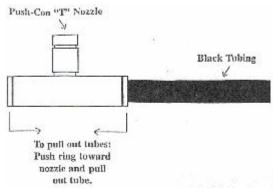
Use the supplied cutters to begin cutting the supplied high-pressure (black) tubing
to the required lengths (see recommended lengths below). Be sure to measure
the total length required for the mist line before cutting the tubing. Only cut what
is needed.



RECOMMENDED NOZZLE SEPARATION

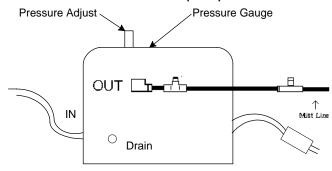
Mounting Height Nozzle Separation 8 – 10 ' (2.4-3m) 28" (71cm) 10-15' (3-4.5m) 24" (61cm)

Begin assembling the mist line by taking one of the supplied Push-Con "T" Nozzle
assemblies with the precut tubing and push the nylon tubing in to the next PushCon "T" with precut tubing, being sure to completely push into the fittings. Hold
the ring from moving and push again with a slight ¼ twist. Feel it seat completely.
Let loose of the ring then pull to test for tightness.



#### 9.2 PRE-INSTALLATION SYSTEM TEST

- Once the mist line is completely assembled, and before attempting to mount the mist line, the system should be flushed (section 4.3) and pressure tested.
- Insert an end plug into the last of the 35 Push-Con nozzle fittings. Connect the pump end of the mist line to the pump by inserting the tubing into the Push-Con "OUT" fitting marked on the side of the pump.



Plug the pump in with the grounded plug making sure of proper pressure (600-800 PSI) (42-55 bar). This will cause the tubing to expand from the fittings, eliminating any sagging once the mist line is mounted.

#### 9.3 Pressure Regulation

• The pressure regulator has been factory preset to 800 PSI (55 bar). If you hook up less than 35 heads or if the line voltage is out of spec, you may be outside the recommended operating pressure range of 600-800 PSI (42-55bar). If you reduce the number of nozzles, you will increase pressure. UNDER NO CIRCUMSTANCES SHOULD THE PRESSURE EXCEED 1000 PSI (69 bar), as this can rupture lines and cause damage to seals and pump. See section 10.1 to adjust the operating pressure.

#### 9.4 **Checking for Leaks**

- Check for leaks that may have occurred due to the tubing not being inserted beyond the o-ring seal. In case of a leak, turn the pump off and remove the leaking fitting. Then insert the tubing back into the fitting making sure the tubing inserts beyond the o-ring. When removing the Push-Con fitting, use a 3/8" openend wrench against the ring, holding the connector with your thumb.
- If you still have leaks, remove the tubing and touch the edge of the tubing for sharpness. If sharp, check the O-ring inside the push-conn fitting to see if it has been cut. Soften the edges of the tubing with a file and try again. Be sure to push in as you give a twist. Hold the outer ring of the push-conn fitting to seat the tubing securely.

#### 9.5 Adjusting the Fog Pattern

 As you retest, watch the flow of fog and how it shoots to help you determine the pattern you would like to see when you mount it in a different position. If you are doing several shapes or changes, use a 3/8" open-end wrench again to hold against the ring while you pull it apart.



Create light, medium, or heavy haze!



Form indoor fog curtains. Drip free system = Dry floors! Moisturizes singers voices!



#### 9.6 **Mounting the Mist Line**

- The mist line is now ready to be mounted. The mist line could be mounted to the underside (bottom) of the structure to be fogged or laid on the ground pointing up, or hung from a cable or a two inch pipe with tie-wraps, over rough terrain, or....wherever. When mounting, keep flexibility a key factor. You may want to change your mind. Note: When supporting this line of spray nozzles, tie a support on each side of the nozzle about 3" (8cm) back, allowing room for change later. Pull the mist line tight as you secure each strap. The unique Push-Con "T" design allows complete 360 degree adjustability of the spray from each nozzle independently. Once the pressure is off, the nozzle may be turned to any angle. To be sure turning doesn't affect the other nozzles, hold the tubing while you turn the direction of the nozzle.
- The next step is to run a feed line from the beginning of the mist line using the remainder of the flexible tubing supplied. Insert the feed line into the Push-con "out" fitting located on the end of the pump. Run the feed to the origination point of the mist line, securing the line every two feet (61cm) with the tubing straps. Be careful not to crimp or twist the line. Trim any excess feed line with the supplied tubing cutters and insert the feed line, usually 25 – 300ft (9 – 105m) into the first

- Push-Con "T" fitting on the mist line. If any elbows are required in your feed or mist line, connect them in the same manner as the "T" fittings.
- Note on permanent installations: when connecting pump to stainless or copper tubing install a flexible discharge hose between pump and tubing to reduce vibration to piping.

## 10. Maintenance procedures

#### 10.1 SYSTEM PRESSURE

Your pump includes a 2000 PSI (138 bar) high pressure glycerine-filled gauge and an adjustable unloader valve. Check the system pressure periodically during operation The operating pressure should be between 600-800 PSI (42-55 bar).
 DO NOT EXCEED 800 PSI (55 bar)! Note: an air bubble will be inside the pressure gauge. This is normal. To adjust pressure, turn the black knob on the top of the pump chassis while observing the gauge.

#### 10.2 CHANGING PUMP OIL

After an initial oil change after 50 hours of operation, the pump oil should be changed every 300 hours of operation (or every three months). To change the oil do the following:

- Run pump for 1 hour prior to changing the pump oil. This will heat the pump, causing the oil to flow better when removing from the pump.
- To avoid electrical shock, disconnect power supply and then continue by removing the pump cover.
- Remove the breather cap located on the topside of the pump.
- Locate the oil drain tube on the bottom side of the pump, remove the 1/8" drain cap and drain the oil into a container.
- After draining is completed, replace drain cap and fill pump with SAE 30 Non Detergent Pump Oil. The pump will take 14 ounces. Oil will show ½ way in sight window when pump is full.
- Replace breather cap (hand tight) and pump cover.

#### 10.3 EXTERNAL WATER FILTER INSPECTION

- Shut down water supply to pump before inspecting the filter element.
- To insure the long life of the pump the external filter element needs to be inspected and/or replaced every 6 months or as needed. The time in between replacements will vary with more use of the system and quality of water. If in an area of hard mineral water, change the filter more often.

#### 10.4 DRIVE BELT INSPECTION

- The belt should not loosen from vibration of the pump, however, when changing the oil, check the belt tension and inspect for cracks or abnormal wear.
- The belt should never be more loose than to allow a movement of ½" (13mm) in the center between the pulleys.

## 11. Troubleshooting

#### 11.1 Low Pressure

- Check number of nozzles too many will lower pressure and cause the pump to work too hard.
- Leak in line on discharge side: inspect all nozzles, lines and fittings for leaks.
- Insufficient supply of water: increase flow of supply line and check water filter.
- Fouled or dirty inlet or discharge valves: clean inlet and discharge valve assemblies.
- Worn inlet, discharge valve blocked or dirty: replace worn valves, valve seats and/or discharge hose.
- If nothing else works Unloader valve not properly adjusted: increase pressure by turning unloader clockwise.

#### 11.2 Water continues to run through pump after pump is turned off

- Contaminant lodged in solenoid valve: remove solenoid and plunger and dislodge any foreign matter. Disconnect power. Inlet solenoid valve is located near the inlet where water first comes into the unit. The first solenoid valve stops water from coming when the power is off.
- Remove the upper electrical magneto by sliding the C-clip sideways and lifting off
  the stem the entire unit. Tap on the solenoid lightly with a wrench. Disconnect
  the hose pressure and squirt water inside to remove dirt. Place magneto back on
  with C-clip and try again.

#### 11.3 Pump stops running

 Overloading the circuit: confirm that pump is plugged into a dedicated circuit and has sufficient amperage. Also be certain that sufficient water pressure is available. Use a minimum ¾" hose (19 mm) with at least 40 PSI (2.8 bar) of clean water.

#### 11.4 Oil leaking around pump

- Drain cap loosened: tighten drain cap with 9/16 wrench.
- Red dipstick loosened: tighten dipstick hand tight.
- Seals possibly leaking. No oil breather plug.

#### 11.5 Pulsation

- Valve stuck open: check all valves, remove foreign matter and reassemble.
- Belt slippage: tighten or replace, use correct belt.

#### 11.6 Water leakage from under manifold

 Worn packing, cracked plunger: install new packing or replace plungers. (Factory authorized dealer.)

#### 11.7 Water in crankcase (looks like bubbles, or milky color)

- May be caused by humid air condensing into water inside the crankcase: shorten oil-change intervals, replace O-rings.
- Be sure breather oil cap is being used.

## 12. Technical Data

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Jungle Mist System Anti-Drip <sup>™</sup>				
110VAC P/N 100071; 230V P/N 100079				
Case Dimensions	17" x 14" x 9.5"			
	(43.2cm x 34.9cm x 24.1cm)			
Overall Dimensions	22" x 13.75" x 12"			
(with hose connections)	(55.9cm x 34.9cm x 30.5cm)			
Weight	90 lbs (40.9 kg)			
Shipping Weight	95 lbs (43.2 kg)			
Shipping Dimensions	24" x 17" x 20"			
	(61cm x 43.2cm x 50.8cm)			
Pump	1 hp			
Electrical Power	120VAC, 10 A, 60 Hz,			
(single-phase)	230VAC, 5 A, 50 Hz,			
Maximum Pressure	800 PSI (55 bar)			
Maximum Inlet Pressure	40 - 125 PSI (no less than 40 PSI)			
	2.8 – 8.6 bar (no less than 2.8 bar)			
Oil Capacity	14 oz (410 ml)			
Oil Type	Non-detergent 30W			
Limited Warranty	One (1) year			
	Rev: 9/30/03			

## 13. Limited Warranty Conditions Jungle Mist System Anti-Drip™

- 1. Subject to the following conditions we will repair any defect or fault in the unit if it is caused by a proven factory fault and has been advised immediately after appearance and within 30 days of delivery to the end user. Insignificant deviations of the regular product quality does not guarantee replacement rights, nor do faults or defects caused by water, by generally abnormal environment conditions or Force Majeure.
- 2. A Limited One-Year Warranty will be done in the following way: Faulty parts will be repaired or replaced (our choice) with correct parts. Faulty units have to be shipped to us or sent to us at customer's expense. The RMA# has to come with the faulty, unit, obtained from CITC.
- 3. The customer looses all rights for Limited Warranty services, if any repairs or adjustments are done to the units by unauthorized persons and/or if spare parts are used, which are not approved by us. Also, non-compliance with the instructions in this manual or mistakes by incorrect handling/treating of the machine, any faults and damages caused by undue force will lead to a loss of limited warranty.
- 4. Freight costs to CITC when under the limited warranty services are the responsibility of the customer. CITC will pay freight upon return.
- 5. Limited warranty services do not cause an extension of the limited warranty time or the start of a new limited warranty time. The warranty of replaced parts ends with the limited warranty time of the whole unit.
- 6. If a defect/fault can not be repaired by us in a satisfactory time, we will, within 30 days after sale of the unit, our choice either:
  - Replace the whole unit for free or
  - Refund the lesser value or
  - Take back the whole unit and refund the purchase price, but not more than the usual market price at the time of refund.
- 7. Further claims, especially for damages, losses etc. outside the unit are excluded.

If you should send the unit for service, do not forget to replace the vented oil cap with the non-vented cap used for shipping the unit. Also drain water from system. Obtain your RMA # by calling CITC. Payment arrangements for repair must be made before receiving RMA # in case unit is not covered under Limited Warranty.

#### Send unit to:

CITC RMA # XXXXXXX 2100 196<sup>th</sup> Street SW Suite #138 Lynnwood, WA 98036 Tel: (888) 786-CITC or (425) 776-4950

Fax: (425) 776-5129 Website: www.citcfx.com E-mail: info@citcfx.com



2100 196<sup>th</sup> St. SW, #138, Lynnwood, WA 98036-7083 425-776-4950 ♦ FAX: 425-776-5129 www.citcfx.com ♦ info@citcfx.com

September 30, 2003