# CANCRETE

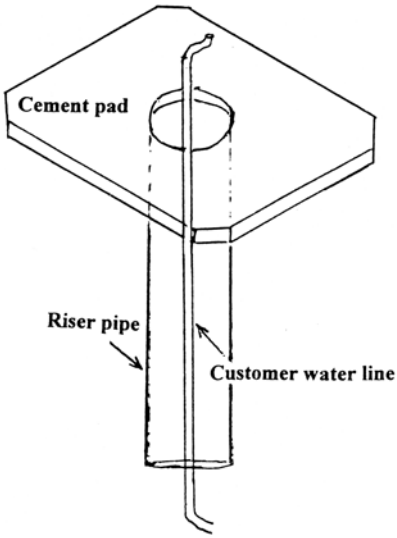
livestock waterer

Manufactured in U.S.A./Canada

# INSTRUCTION SHEET

This livestock watering bowl has a proper lifting procedure. “DO NOT” attempt to place bowl without proper lifter(s) part # C-Lft. Waterers can be lifted with a single chain attached lifter(s) which is inserted through the balance point of the waterer or the center hole in cattle trough, and secured with a heavy washer or nut. Models using 2 lifters need to be lifted using bale forks or teeth on bucket as a spreader bar so that it is lifted evenly on both sides.

It is recommended that all waterers be installed on a concrete platform. The waterer should be set on a bed of mortar on a clean, level platform. The mortar should be finished smooth around the outside of the waterer. If the platform is not completely level, shim the waterer to make it level and work mortar under waterer to seal out wind, cold and water, and to hold waterer in place. (Old platforms should be clean and dampened when applying new mortar). Store bottom side down. Warranty void if waterer placed on side. New installations can be supported on timbers or railroad ties for the first year and the area fixed and put in pad after the settling has taken place. A pad 4" thick with corners cut at 45 degrees either 8' x 8' so just the animal’s front feet end up on pad or 16' x 16' so the entire animal stands on the pad. For a riser pipe we suggest no less than 8" in diameter plastic pipe. Riser line should be cut off 2" above the cement pad to stop water from seeping under the bowl and down into the pipe.

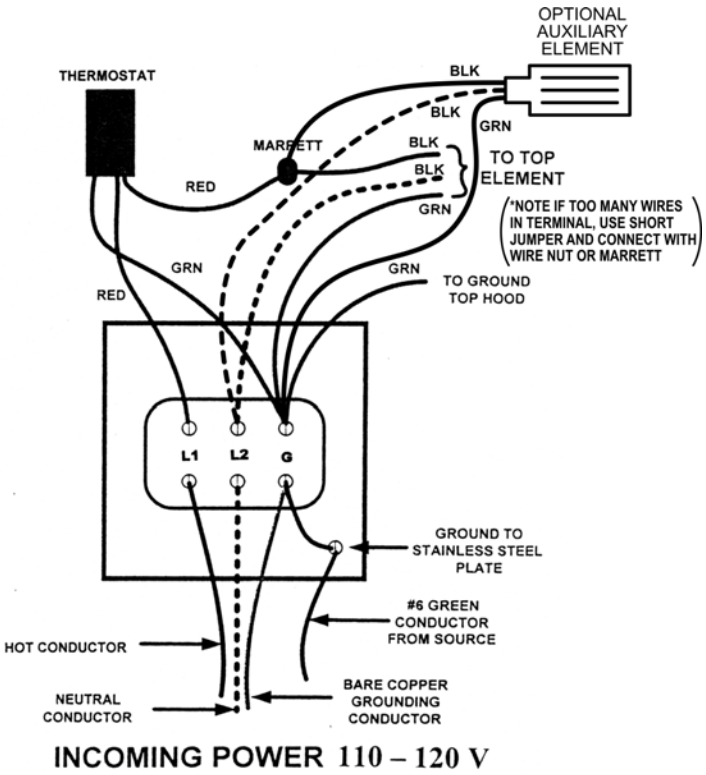


## WATER HOOKUP

This waterer has the hose hookup attached and after placement of the bowl, hook the incoming water line to the male thread hose fitting (Teflon tape may be used to ensure no leaking). The other end of the hose hookup is attached to the valve. Remove the threaded arm from the parts bag (attached to the aux element bracket) and attach one end to the stainless steel float ball and the other end to the valve arm. Loosen the wing nut on the valve to set the level of the float ball in the water bowl. Note: do not power up water bowl until full of water, as the thermostat may turn on elements and elements may split from sitting in open air.

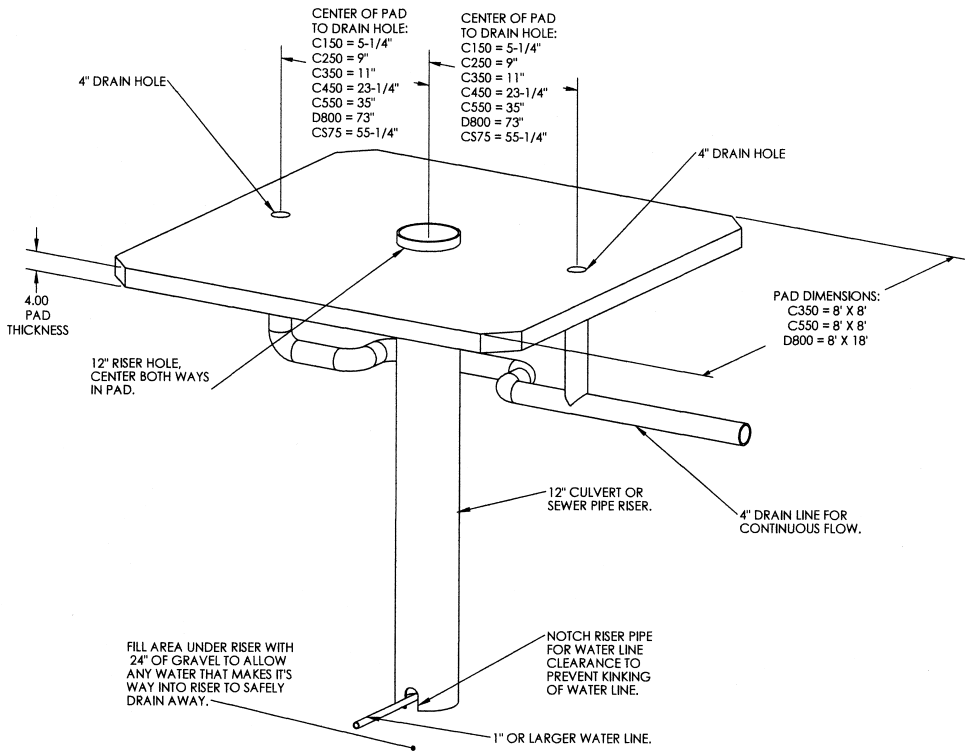
## ELECTRIC HEAT

When using electric heat, be sure to make provisions for grounding waterer before setting waterer over pit or tile. A ground rod is required, driven down inside the tile or pit. (Local electrical codes should be checked). The riser pipe in the waterer can be wrapped with a short heat tape. (Heat tapes not included with waterer). Heat tapes without thermostats may be hooked into thermostat on the waterer at time of electrical hookup. Auxiliary heaters are standard on all our waterers. Auxiliary heater should be located so as to “not” allow contact with insulation, electrical wiring, water line and set on concrete base in bracket. Always check voltage. Be sure wiring is installed to meet all safety requirements of local code. Use correct amp fuse or breaker. Caution: make sure waterer is grounded to meet requirements of local code.



# CANCRETE CONTINUOUS FLOW DRAIN LOCATIONS

(Note* if an end hood model measurement is correct from center of riser.)

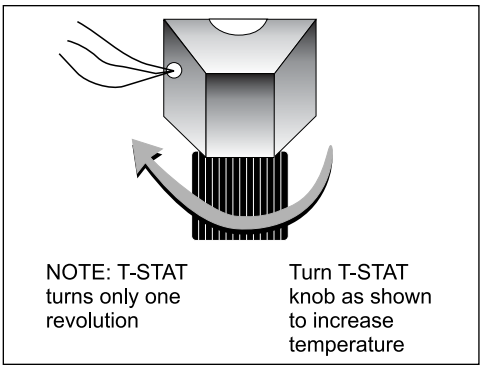



## AUTO CONTINUOUS FLOW

If you have purchased a Cancrete water bowl with “Auto Continuous Flow” you should be aware of a couple of maintenance items that will make this experience a good one! Most people are now using large diameter riser pipes, and these, in some Southern areas bring up a great deal of ground heat. The top sensor does not differentiate between ambient air temperature and ground heat so it may turn on and stay on when it shouldn’t be running. If this happens, turn off, the ball valve that is located under the top sensor or put a bit of insulation in the chimney to stop ground heat from coming up. This is typically not an issue until late February or Mid-March when temp sits around 38 - 40F. As always if any of the use of this system confuses you call our toll free number and we will walk you through the use of the system.

## ADJUSTMENTS AND MAINTENANCE

Thermostat - Thermostat is preset at full on position. Although during shipment and handling, the setting may become altered and must be reset. Caution should be taken when resetting, one complete turn of the adjusting cap on thermostat changes the temperature setting 60F degrees. There is a stop on the knob dial and forcing past the stop ruins the thermostat. To **raise the temperature** setting turn adjusting cap **counterclockwise** (as if removing a screw). To **lower temperature** setting turn **clockwise**.




If thermostat fails during freezing weather, water may be kept ice-free by wiring direct.

1. Disconnect electric power to waterer.

2. Disconnect thermostat.

3. Wire heater element direct.

4. Replace thermostat as soon as possible.

In the event the thermostat sticks or fails to function, which can occur after several years in service or after a period of non-use, turn adjusting cap 1/4 turn each way a few times. In many instances, this will activate the points and the thermostat will function properly. If after this procedure the thermostat still does not work, it will have to be replaced. **Caution:** thermostat is screwed into a 1/2" brass coupling and when replacing should be turned only a little more than hand tight. Counterclockwise raises temperature setting.

Electrical heater elements should be cleaned periodically to prevent lime and scale buildup, extending life of the heater and adding to greater heater efficiency. To test heater element remove marrette from thermostat wire connection and direct wire the element bypassing the thermostat. Heater will get hot if working correctly. Be sure that wiring is properly installed to meet all electrical code safety requirements.

Should you choose to clean manure or ice and snow off the water bowl pad with a front-end loader and subsequently hit your water bowl and collapse the side wall . . . there will be no warranty, so use caution.

## PRECAST CONCRETE CATTLE WATERER WARRANTY

Advanced Agri-Direct Inc. (hereafter referred to as the “supplier”) cattle waterer hulls are warranted against defects in the materials and workmanship, and will perform according to our specification provided that installation is proved to be satisfactory to the supplier.

In the event that the concrete hull proves defective, during the first 3 years, it will be replaced free of charge (F.O.B. our yard) to the original owner or repaired upon the supplier option. The remainder of the warranty period will provide to the original owner a rebate against the replacement of the waterer hull equal to 20% of the original cost of the hull. This rebate will only be applied to the cost of the replacement hull.

Permission to replace, alter, or repair must first be obtained from the supplier. Labor costs, transportation or any other extraneous costs will not be allowed.

This warranty does not include replacement of any materials lost through leakage, or damages arising therefrom.

The supplier does not assume liability for a hull damaged or made defective because of improper installation, improper usage, negligence, or for a hull damaged by any other cause. Furthermore, the supplier also assumes no liability for any consequential damage to persons, property or the environment due to discharge from a hull. we do not assume, nor do we authorize any other person to assume for us, any other responsibility to this purchase. The term “original owner” as used in this warranty is understood to mean the person who originally requested the installation of the tank on his property and the term “original installation” shall mean the first installation of such tank on such property. Warranty void if waterer is placed on side. Only store bottom down.

**Warning:** install on non-combustible surface.

## ELECTRONICS AND COMPONENTS WARRANTY

Advanced Agri-Direct Inc. (hereafter referred to as the “supplier”) warrants all COMPONENTS and electrical parts and workmanship to be free from manufacturing defects, for a period of 1 year from date of original installation.

At the option of the supplier, replacement parts may be sent to the original owner, and the installation of those replacement parts will be the responsibility of the original owner. Parts sent to the supplier for repair or replacement must be sent to the supplier shipping prepaid. parts will be returned shipping collect.

The supplier’s total obligation under this warranty shall be limited to the repair of defects or replacement of defective parts as outlined above. The supplier assumes no other responsibility whatsoever. If the failure of the parts is due to misuse, abuse, in transit or in process of installation, replacement becomes the responsibility of the original owner. There is no other warranty, written or verbal, pertaining to waterer COMPONENTS and parts.

**Note:** Top elements are immersion elements. If it splits, it has been out of water for a substantial amount of time. This is not a warrantable situation. An immersion element can also split if it develops a substantial amount of buildup on the element from exceptionally dirty water (dugout). This can be scraped off to stop this condition.

# CONCRETE WATERER TROUBLESHOOTING GUIDE

| PROBLEM | SOLUTION |
|---|---|
| ***Where does auxiliary element go?*** | On your pad under bowl (**DO NOT** put down riser pipe). If bowl is on timbers, set on block of wood. |
| ***Waterer freezing*** | Check the thermostat setting, turning it counterclockwise (left) increases temperature. If under bowl and 4" riser, heat with heat tape. |
| ***Element doesn't heat up after being off for a period of time*** | Turn thermostat back and forth (Note: only goes one full turn), this will loosen a stuck contact. |
| ***Cattle lapping water out making mess or ice around bowl*** | Turn temperature down. Cattle don't like hot water and will lap it out and wait for cold water to come in. (See excessive ice buildup also) |
| ***Water has excessive ice buildup in bowl in freezing temperatures*** | Lower water level to just above holes on hood in winter. It will stop this and save energy (less water to heat). Adjust thermostat in small increments. (See cattle lapping water also) |
| ***Valve freezing at elbow*** | Check if auxiliary element is hooked up and working under the bowl. This sends heat up through the chimney to the valve. |
| ***Elements not heating*** | Check power at bowl, (See item #2) bypass thermostat. If all else fails, put power to each side of element, if the element doesn't heat it needs to be replaced. Replace split or faulty elements. |
| ***Valve seeps causing bowl to overflow*** | Check float ball setting. If waterer has been in place for some time, take valve apart and clean. ALL water causes buildup on rubber seals. Replace if necessary. |
| ***How to move or lift waterer*** | Use a proper lifter. Lifter is a simple eyebolt 3/4" or larger with a flat plate 3" x 3" under bowl with a nut. Lift with chain and front end loader. |
| ***Clean-out plug leaks*** | Pound in with rubber mallet, dry hole first, to ensure proper seal. |
| ***Thread on hood bolts stripped or ruined*** | Replace with new studs. These are stainless, replaceable and almost impossible to re-thread. Vise grip will remove old one. If turned too far will break out the bowl concrete. |
| ***Plastic float ball heat damaged*** | Bowl has been drained of water, either power was off or supply problem. Using Kerick valve with min. 20 lb. pressure, you can't get enough cattle to drink it down. Replace plastic float ball with stainless steel. |
| ***Sealing bowl to pad*** | In most cases within one day the cattle bring mud and manure onto the pad and it seals. You can seal with cold application tar **BEFORE** setting bowl in place. |
| ***Power failure or burned out element, bowl is frozen*** | Do not use heavy object to break out ice to remove element (such as axe, sledge hammer, etc.), hulls are hollow and the bottom will break out or crack. Instead use an alternative heat source to melt the ice and then remove and replace element. |

# REORDER PARTS LIST

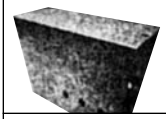
PT75LS
3/4" Valve

PT1000LS
1" Valve

TRI 250
250 WATT Element

TRI 700
700 WATT Element

TRI 1000
1000 WATT Element



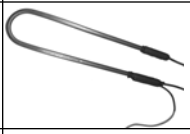
SSVHLG
Valve Cover
LARGE

H31436 3/4"
Complete Hose

H136 1"
Complete Hose

SSVHSM
Valve Cover
SMALL

AH-6SS
6" S/S Float



U300C
300 WATT
Element

SSVHSW
Valve Cover
SWEM

R10-35
R10-4
S/S Arm
3.5" & 4"

TRI 98
Auxiliary
Element

VPI25
3/4" Valve
with 3/8" Orifice

14130W
#15
Drain Plug

EBT8
Terminal
Block

SSDO
S/S Service
Door

14130J
#6
Lifter Plug

FM344
Thermostat

SSEBT
S/S Element
Bracket & Tab

LFT
Lifter Bolt
w/Nut

SYIN
Door Insert

SSEB
S/S Electrical
Bracket

SSFW38
S/S Flat Washer
3/8"

SSN38
S/S Nut
3/8"

SSB38X175
3/4" Bolts
B2238.34
1-3/4"

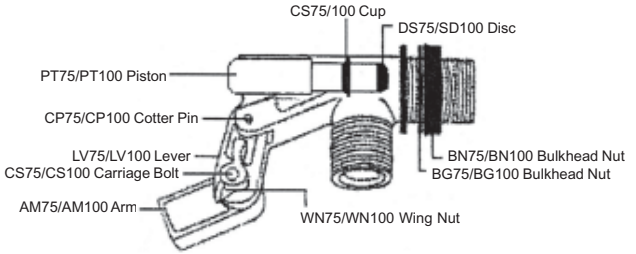
SS STUD
S/S/ Stud

EBAC
Complete
Electrical Box

SF75/CF100
Continuous
Flow Valve

SSVB S/S
Valve Bracket

## COMPLETE VALVE




PPT-55881
PPO-55881
Touch Up Coating
Teal/Orange

DAP00688
Repair Sealant

# AVAILABLE MODELS

CGSA50

CESA50

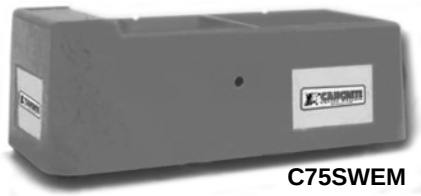
CDESA50

C150

C250

C350

C450



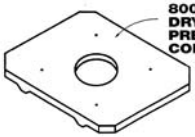
C75SWEM

C550 “The Bad Boy”

CS75

D800 Dairy and Big Feeder Bowl

# EASY PAD SPECS





| Model | No. of Head Feeder Cattle | No. of Head Cows | Dimensions | Weight |
|---|---|---|---|---|
| CGSA50 | N/A | 50 Goats or Small Animals | 21 ¼”L x 24 ¼”W x 14" H | 260 lbs |
| CESA50 | N/A | 50 Horses or Small Animals | 22"L x 24 7/8"W x 18" H | 320 lbs |
| CDESA50 | N/A | 60 Horses or Small Animals | 36"L x 27"W x 18" H | 460 lbs |
| C150 | 1 - 200 | 0 - 50 | 33"L x 36"W x 25"H | 800 lbs |
| C250 | 200 - 300 | 50 - 120 | 37"L x 36"W x 25"H | 1000 lbs |
| C350 | 300 - 400 | 120 - 220 | 43"L x 36"W x 25"H | 1100 lbs |
| CS75 | 400 - 500 | 220 - 350 | 78"L x 36"W x 25"H | 1400 lbs |
| C75SWEM | 400 - 500 | 220 - 350 | 78"L x 36"W x 25"H | 1400 lbs |
| C450 | 400 - 500 | 220 - 350 | 69"L x 36"W x 25"H | 1300 lbs |
| C550 | 500 - 600 | 350 - 500 | 93"L x 36"W x 25"H | 1850 lbs |
| D800 | 600 - 800 | 500 - 650 | 168"L x 36"W x 25"H | 3300 lbs |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