Sure Flow



- Easy System Design
- Saves Money
- Simple Installation and Balancing
- Fewer Moving Parts
- Cost Efficient Operation
- 200 to 2000 CFM

It is the responsibility of the end user to properly characterize and dispose of all waste materials according to applicable regulatory and legal entities. Where reasonable, safe, and compliant with local regulatory and legal requirements, IEC encourages recycling materials when disposing of its products.

International Environmental Corporation (IEC) works continually to improve its products. As a result, the design and specifications of each product may be changed without notice and may not be as described herein. Please contact IEC for information regarding current design and product specifications. Statements and other information contained herein are not express warranties and do not form the basis of any bargain between the parties but are merely IEC's opinion or commendation of its products. Manufacturer's standard limited warranty applies.



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#### IEC SureFlow<sup>®</sup> Fan Coil

SureFlow<sup>®</sup> units must be filled with clean water before operating the circulator. The circulator bearings are water lubricated and should not be allowed to operate dry. Filling the system properly will result in immediate lubrication of the bearings.

#### **Overview**

The SureFlow<sup>®</sup> System is a series circuit with compound pumping. Each SureFlow loop must be balanced for flow. Each individual fan coil has one or two integral circulators which are self-balancing.

The circulators must be primed with clean water and cannot run dry.

#### Preface

- 1) WARNING: ANY ATTEMPT TO INSPECT OR SERVICE THIS UNIT BY ANYONE OTHER THAN PROPERLY TRAINED AND QUALIFIED SERVICE TECHNICIANS COULD RESULT IN SERIOUS INJURY OR DEATH.
- 2) WARNING: BEFORE SERVICING THIS UNIT, ALL SOURCES OF ELECTRICAL POWER MUST BE DISCONNECTED TO PREVENT INJURY OR DEATH DUE TO ELECTRICAL SHOCK OR CONTACT WITH MOVING PARTS. SOME MODELS MAY HAVE MORE THAN ONE POWER SOURCE.
- 3) VERIFY THAT THE VOLTAGE RATING ON THE MOTOR NAME PLATE MATCHES THE POWER SUPPLY. All wiring should be in accordance with the National Electric Code and local building codes. Extension cords must not be used with this unit. Each unit must have a separate branch circuit protected by a fuse or breaker of proper size and type.
- 4) ALL LOCAL CODES AND ORDINANCES TAKE PRECEDENCE OVER RECOMMENDATIONS HEREIN, WHICH ARE PRESENTED TO ENCOURAGE PROFESSIONAL INSTALLATION AND ENSURE MAXIMUM OWNER BENEFIT.

- 5) Your equipment is protected under the manufacturer's standard warranty which is provided under the condition that the instructions outlined in this manual are followed in detail. This manual should be fully reviewed in advance of any actual work being done on the equipment. Should any questions arise, please contact your local sales representative or the factory BEFORE proceeding.
- 6) The equipment covered by this manual is available with a variety of options and accessories. Obtain and read the approved unit submittals, order acknowledgment, and product catalogs for details on the options and accessories provided. When in doubt, consult the factory or sales representative for more information.

### Installation Review – Runout Piping

#### System Inspection

The circulator selected for use within a particular SureFlow® fan coil will deliver water flow corresponding to the sum of all restrictions including the coil, isolation valves, and runout tubing or hoses. Review approved submittals and loop simulations to verify unit locations. For most applications up to two tons cooling and for all heating applications, all runout piping should be at least three-quarter inch nominal pipe size.

Connection to the main loop may be by standard tee fitting, or "Tee-Drill," or "Taco Twin Tee." Connections should be made to the main loop at the side or top of the pipe, never at the bottom (bottom connections will accumulate dirt from the passing water). Top connections will accumulate air bubbles more readily than side connections, and require special venting considerations. Connections should be 3-4 inches apart. Main piping must be at least one inch diameter. See approved piping plans for correct sizing.

Units installed higher than level of loop main will collect air. Installation of automatic air vents may be required.



#### **System Preparation**

- Prior to the water system start-up and balancing, the chilled/hot water systems should be flushed to clean out dirt and debris which may have collected in the piping during construction. During this procedure, all unit service valves must be in the closed position.
- 2) During system filling, air venting from the unit is accomplished by the use of the standard, manual air vent fitting, or the optional, automatic air vent fitting installed on the coil. Venting can be accomplished by depressing the needle valve core. Automatic air vents may be unscrewed one turn counterclockwise to speed initial venting, but should be screwed in for automatic venting after start-up operations.



3) CAUTION: The air vent provided on the unit
is not intended to replace the main system air
vents or expansion tanks and will not release
air trapped in other parts of the system.
Inspect the entire system for potential air
traps and vent those areas as required.

#### **Hydronic Coils**

- 1) CAUTION: Residues and loose particles resulting from manufacturing and field piping techniques, such as joint compounds, soldering flux, and metal shavings, may be present in the unit and the piping system. Special consideration must be given to system cleanliness. Strainers should be installed in the piping mains to prevent foreign material from entering the units during normal operation.
- The supply and return connections are marked on the circulator stub-outs or cabinet panels with "S" meaning supply or inlet and "R" meaning return or outlet indicating flow direction to and from the coil. Blue letters mark the chilled water connections, and red letters mark the hot water or steam connections.

- 3) Test the completed installation for leaks. Hydronic systems should be tested with water. Some components such as automatic air vents are not designed to hold pressure with a gas. Do not exceed the lower of 200 psig test pressure or the lowest test pressure of any component used in the system.
- Factory drip lips are factory or field installed and may be packaged separate from the unit. Integral cooling circulator packages will be arranged to locate as much of the package as possible over the drip lip.
- 5) All water lines should be continuously insulated to prevent condensate dripping outside the drain pan or drip lip extensions.
- 6) CAUTION: All water coils must be protected from freezing after initially filling with water. Even if the system is drained, drainable coils may still hold enough water to cause damage when exposed to temperatures below freezing.
- 7) If circulator package connections are to be made with a "sweat" or solder joint, care should be taken to assure that no components in the valve or circulator package are subjected to a high temperature which may damage seals or other materials.
- 8) If the valve or circulator package connection at the coil is made with a union, the coil side of the union must be prevented from twisting ("backed up") during tightening to prevent damage to the coil tubing. Over-tightening must be avoided.
- 9) Water and drain tubing should be adequately supported to prevent sag and to minimize stress on coil connections. Particular care should be observed when using flexible hoses that all unit water connections are adequately supported.



#### Venting

To assist in venting, runout piping should slope upward in the direction of flow at a rate of 1/8" per 10' of pipe run, with an air vent at the end of the run. Do not expect the water coil vent to remove air trapped in the runout piping.

To encourage venting and maintain positive suction head pressure at the pumps, the building pipe system should be equipped with a correctly sized expansion tank charged for an appropriate level of static pressure.

#### **Filling and Priming**

As important as proper venting is the need to properly fill and prime all piping prior to starting the circulator pump. The engineer should anticipate and plan the method to be used to prime each loop and SureFlow<sup>®</sup> unit circuit.

It is assumed that service isolation valves will be used to isolate the main water loop. The runout piping should be connected to the service valves and the SureFlow unit.

NOTICE: SureFlow<sup>®</sup> unit circulator pumps are not self-priming. These instructions must be followed before initial startup and following any major service is performed. Repeat the entire Filling and Priming sequence for both cooling and heating coils.

- Observe the direction of flow in the main loop, and verify proper connection of supply and return pipes to the appropriate connections on the main loop and the unit. The SureFlow unit supply connection must be to the upstream loop connection; the return connection must be to the downstream loop connection in the direction of flow.
- Close both supply and return ball valves. Remove the air vent cap and remove the vent valve core. Connect a rubber hose with a Schrader fitting to the air vent on the coil. Stick the other end in a bucket or sink.
- 3) Open the supply isolation valve, allowing static water pressure to purge the unit of air and fill the coil and circulator pump completely with water. When a steady stream of water flows through the hose, close the supply valve and open the return valve. When a steady stream of water flows through the hose, close both valves and remove the hose. Install the Schrader valve core in the air vent, and cap the vent.

- 4) Open both supply and return isolation valves completely.
- 5) Start the circulator pump and observe water flow through the coil. Any trapped air bubbles will accumulate at the top of the coil and may be purged through the coil air vent. It is possible that some air will remain trapped, requiring a more aggressive purging and venting cycle to completely remove air from the unit.
- 6) When the pump is sufficiently primed and started, it may be possible to hear water rush through the unit pushing the air bubbles through. Once all air is removed through the system, the circulator should be extremely quiet in operation.
- 7) SureFlow® units must be filled with water before operating the circulator. The circulator bearings are water lubricated and should not be allowed to operate dry. Filling the system will result in immediate lubrication of the bearings.
- Operate the circulator for 5 minutes immediately after filling the system to purge remaining air from the bearing chamber.
- 9) After the proper system operation is established, the appropriate system operating conditions such as various water temperatures and flow rates should be recorded in a convenient place for future reference such as the Equipment Start-up Check List, a copy of which is provided in the back of this manual. Contact the sales representative or the factory for additional copies of this sheet.



#### Valve, Circulator and Piping Maintenance

- No formal maintenance is required on the valve or circulator package components most commonly used with SureFlow® units other than a visual inspection for possible leaks in the course of other normal periodic maintenance.
- In the event that a valve or circulator should need replacement, protect the device from excessive heat during replacement.

#### **Replacing Circulator Motor Assembly**

- 1) Disconnect the electrical supply.
- 2) Isolate the circulator by closing the service valves.
- Reduce system pressure to 0 PSI and allow the system to return to room temperature. Remove body bolts and swing motor assembly away from the body.
- 4) Install the new motor, and reassemble the circulator using a new gasket and new stainless steel bolts.
- 5) Follow the "installation" procedure to start up the circulator.

#### **Replacing Circulator Cartridge Assembly**

- 1) Disconnect the electrical supply.
- 2) Isolate the circulator by closing the service valves.
- 3) Reduce the system pressure to 0 PSI and allow the system to return to room temperature.
- Remove body bolts and swing motor assembly away from the body. If necessary, remove additional mounting brackets.
- Pull the cartridge out of the motor housing and mounting brackets. Install the new cartridge, making sure that the cover plate is between the cartridge flange and motor.
- 6) Reassemble the circulator using a new gasket and new stainless steel bolts.
- 7) Follow the "installation" procedure to start up the circulator.

#### **Replacing Circulator Motor Capacitor**

- 1) Disconnect the electrical supply.
- 2) Replacement capacitor must have the same rating as originally furnished.

#### **Replacement Parts**

- Factory replacement parts should be used wherever possible to maintain the unit performance and operation characteristics. Replacement parts may be purchased through the local sales representative.
- Contact the local sales representative or the factory before attempting any unit modifications. Any modifications not authorized by the factory could result in personal injury and damage to the unit and could void all factory warranties.
- 3) When ordering parts, the following information must be supplied to ensure proper part identification:
  - a. Complete unit model number.
  - b. Unit serial number.
  - c. Unit hand connection (right or left hand) while facing into the air stream.
  - d. Complete part description including any numbers.
- 4) On warranty replacements, in addition to the information previously listed, the unit shipping code which appears on the upper right hand corner of the serial plate is required. Contact the factory for authorization to return any parts such as defective parts replaced in warranty. All shipments returned to the factory must be marked with a return authorization number which is provided by the factory.
- 5) All factory replacement parts are warranted for the remainder of the unit warranty or 30 days, whichever is greater.



#### Water Treatment

Proper water treatment is a specialized industry. IEC recommends consulting an expert in this field to analyze the water for compliance with the water quality parameters listed below, and to specify the appropriate water treatment regimen. The expert may recommend typical additives such as rust inhibitors, scaling preventative, antimicrobial growth agents, or algae preventatives. Anti-freeze solutions may also be used to lower the freezing point.

IEC water coil tubes and headers are constructed of pure copper. Multiple brass alloys may be present in the valve package, depending on unit configuration. It is the user's responsibility to ensure the tube and piping materials furnished by IEC, are compatible with the treated water.

# Failure to provide proper water quality will void the fan coil unit's warranty.

Water Containing	Required Concentration
Sulphate	Less than 200 ppm
рН	7.0 – 8.5
Chlorides	Less than 200 ppm
Nitrate	Less than 100 ppm
Iron	Less than 4.5 mg/l
Ammonia	Less than 2.0 mg/l
Manganese	Less than 0.1 mg/l
Dissolved Solids	Less than 1000 mg/l
CaCO3 Hardness	300 - 500 ppm
CaCO3 Alkalinity	300 - 500 ppm
Particulate Quantity	Less than 10 ppm
Particulate Size	800 micron max



### **Equipment Start-up Check List**

### **IMPORTANT**

SureFlow<sup>®</sup> units must be filled with water before operating the circulator. The circulator bearings are water lubricated and should not be allowed to operate dry. Filling the system properly will result in immediate lubrication of the bearings.

### **Receiving and Inspection**

- Unit received undamaged
- □ All services to unit in code compliance
- □ All shipping screws and braces removed
- □ Unit protected from dirt and foreign matter

### **Start-up Check list**

- Cooling/heating connections
- Connect field piping to unit
- Pressure test all piping for leaks
- Install drain line and traps as required
- □ Support and insulate all piping as required
- Install drip lip under piping as required
- Connect power supply
- Install and connect controls
- □ Check all wiring for secure connections
- Record electrical supply voltage
- General visual unit and system inspection
- □ Check for proper fan rotation

#### Start-up – Priming the SureFlow<sup>®</sup> Circulator

- Close all unit isolation valves
- Flush main water systems
- Balance water flow through mains and SureFlow<sup>®</sup> loops
- □ Fill coils and prime circulator pumps per detailed instructions on page 5-6
- Complete unit test and commissioning
- Verify all air is out of system
- Verify proper water treatment plan is implemented

### **Miscellaneous Start-up Items**

- □ All ductwork and grilles in place
- □ All unit panels and filters in place
- □ Start fans, pumps, chillers, etc.
- Check for overload condition of all units
- Check all ductwork and units for air leaks
- □ Balance air systems as required
- Record all final settings for future use
- **D** Check piping and ductwork for vibration
- Check all dampers for proper operation
- Verify proper cooling operation
- Verify proper heating operation



#### **TERMS AND CONDITIONS**

- Orders shall not be binding upon International Environmental Corporation, an Oklahoma corporation (hereinafter referred to as "IEC") unless accepted by an authorized representative of IEC at its office in Oklahoma City, Oklahoma. No distributor, sales representative or any other person or entity (except authorized employees of IEC at its office in Oklahoma City, Oklahoma) has any authority whatsoever to bind IEC to any representation or agreement of any kind.
- IEC does not build items to plans and specifications. IEC agrees to furnish only the items as described in IEC's acknowledgment unless IEC's office in Oklahoma City, Oklahoma has previously received and accepted, in writing, approved submittals from Purchaser.
- 3. Prices acknowledged are firm only if Purchaser releases the goods covered by this order for immediate production by IEC within sixty (60) days from the date of Purchaser's initial offer to purchase and for shipment by IEC within IEC's estimated shipping date, unless otherwise agreed to in writing by IEC at its office in Oklahoma City, Oklahoma. If Purchaser does not meet the terms and conditions of this paragraph, the prices are subject to escalation to those prices in effect at time of shipment without notice to Purchaser.
- All prices are F.O.B. IEC's factory, unless otherwise agreed by IEC in writing; and, all payments and prices shall be in U.S.A. dollars.
- 5. If goods are released for production but IEC is prevented by the Purchaser from shipping upon completion or by IEC's estimated shipping date, whichever is later, IEC may at its option, in addition to all other remedies, invoice Purchaser to be payable within thirty (30) days and store the goods at Purchaser's sole expense.
- 6. Title to and risk of loss to the goods passes to the Purchaser F.O.B. IEC's factory.

#### 7. Disclaimer

It is expressly understood that unless a statement is specifically identified as a warranty, statements made by IEC or its representatives relating to IEC's products, whether oral, written or contained in any sales literature, catalog or any other agreement, are not express warranties and ho not form a part of the basis of the bargain, but are merely IEC's opinion or commendation of IEC's products. EXCEPT AS SPECIFICALLY SET FORTH HEREIN, THERE IS NO EXPRESS WARRANTY AS TO ANY OF IEC'S PRODUCTS. IEC MAKES NO WARRANTY AGAINST LATENT DEFECTS. IEC MAKES NO WARRANTY OF MERCHANTABILITY OF THE GOODS OR OF THE FITNESS OF THE GOODS FOR ANY PARTICULAR PURPOSE.

#### 8. Grant of Limited Express Warranty

IEC warrants IEC products purchased and retained in the United States of America and Canada to be free from defects in material and workmanship under normal use and maintenance as follows: (1) All complete fan coil units built or sold by IEC for twelve (12) months from date of unit start up or eighteen (18) months from date of shipment (from factory), whichever comes first.

All parts must be returned to IEC's factory in Oklahoma City, Oklahoma, freight prepaid, no later than sixty (60) days after the date of the failure of the part; if IEC determines the part to be defective and within IEC's Limited Express Warranty, IEC shall, when such part has been either replaced or repaired, return such to a factory recognized contractor or service organization, F.O.B. IEC's factory, Oklahoma City, Oklahoma, freight prepaid. The warranty on any parts repaired or replaced under warranty expires at the end of the original warranty period. For information and warranty service contact:

International Environmental Corporation Customer Service 5000 West I-40 Oklahoma City, OK 73128 (405) 605-5000

This warranty does not cover and does not apply to: (1) Air filters, fuses, fluids; (2) Products relocated after initial installation; (3) Any portion or component of any system that is not supplied by IEC, regardless of the cause of the failure of such portion or component; (4) Products on which the unit identification tags or labels have been removed or defaced; (5) Products on which payment to IEC is or has been in default; (6) Products which have defects or damage which result from improper installation, wiring, electrical imbalance characteristics or maintenance; or are caused by accident, misuse or abuse, fire, flood, alteration or misapplication of the product; (7) Products which have defects or damage which result from a contaminated or corrosive air or liquid supply or operation at abnormal temperatures; (8) Mold, fungus or bacteria damages; (9) Products which have been subjected to corrosion or abrasion; (10) Products manufactured or supplied by others; (11) Products which have been subjected to misuse, negligence or accidents; (12) Products which have defects, damage or insufficient performance as a result of insufficient or incorrect system design or the improper application of IEC's printed instructions; or (13) Products which have defects, damage or insufficient performance as a result of insufficient or incorrect system

IEC is not responsible for: (1) The cost of any fluids or other system components, or associated labor to repair or replace the same, which is incurred as a result of a defective part covered by IEC's Limited Express Warranty; (2) The costs of labor, materials or service incurred in removal of the defective part, or in obtaining and replacing the new or repaired part; or, (3) Transportation costs of the defective part from the installation site to IEC or of the return of any part not covered by IEC's Limited Express Warranty.

Limitation: This Limited Express Warranty is given in lieu of all other warranties. If, notwithstanding the disclaimers contained herein, it is determined that other warranties exist, any such warranties, including without limitation any express warranties or any implied warranties of fitness for particular purpose and merchantability, shall be limited to the duration of the Limited Express Warranty.

Limitation of Remedies In the event of a breach of the Limited Express Warranty, IEC will only be obligated at IEC's option to repair the failed part or unit or to furnish a new or rebuilt part or unit in exchange for the part or unit which has failed. If after written notice to IEC's factory in Oklahoma City, Oklahoma of each defect, malfunction or other failure and a reasonable number of attempts by IEC to correct the defect, malfunction or other failure and the remedy fails of its essential purpose, IEC shahoma shall be the maximum liability of IEC\_THIS REMEDY IS THE SOLE AND EXCLUSIVE REMEDY OF THE BUYER OR THEIR PURCHASER AGAINST IEC FOR BREACH OF CONTRACT, FOR BREACH OF ANY WARRANTY OR FOR IEC'S NEGLIGENCE OR IN STRICT LIABILITY.

#### 10. Limitation of Liability

IEC shall have no liability for any damages if IEC's performance is delayed for any reason or is prevented to any extent by any event such as, but not limited to: any war, civil unrest, government restrictions or restraints, strikes, or work stoppages, fire, flood, accident, shortages of transportation, fuel, material or labor, acts of God or any other reason beyond the sole control of IEC. IEC EXPRESSLY DISCLAIMS AND EXCLUDES ANY LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGE IN CONTRACT, FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY, OR IN TORT, WHETHER FOR IEC's NEGLIGENCE OR AS STRICT LIABILITY.

- 11. IEC shall have no system design, application or maintenance responsibility or responsibility for mold, fungus or bacteria to Purchaser or any other third party.
- 12. All sales, goods and services, use, excise, value added, transportation, privilege, occupational consumption, storage, document, transaction or other taxes which may be levied by any taxing authority as a result of this transaction shall be paid by the Purchaser.
- 13. Unless otherwise agreed to in writing by IEC any technical data furnished in conjunction with this order and not obtainable from another source shall not be duplicated, used, or disclosed in whole or in part for any purpose other than to evaluate this order.
- 14. IEC shall have no liability or other obligation hereunder, if IEC's performance is delayed for any reason or is prevented to any extent by any event such as, but not limited to: any act of God, strike or work stoppage, fire, flood, accident, allocation, or other controls of Government authorities, shortages of transportation, fuel, material or labor, or any other cause beyond IEC's sole control. Any shipping date stated by IEC is IEC's best estimate but IEC makes no guarantee of shipment by any such date and shall have no liability or other obligation for failure to ship on such date, regardless of cause.
- 15. Payment terms are net thirty (30) days from date of shipment on approved credit. One and one half percent (1 1/2%) per month (18% annual rate) may be charged on past due accounts or the highest rate permitted by applicable law, whichever is lesser. In the event the account is placed for collection, Purchaser shall be responsible for all reasonable attorneys fees or costs on a solicitor and client basis, plus all other costs and expenses incurred by IEC in securing payment.
- 16. Purchaser shall not cancel the contract without prior written consent of an authorized representative of IEC at its offices in Oklahoma City, Oklahoma. In the event Purchaser cancels the contract with the prior written consent of IEC after the Purchaser's offer to purchase is received and acknowledged in writing, IEC shall be entitled to receive from Purchaser IEC's cost incurred to time of cancellation plus a reasonable allowance for overhead and profit.
- 17. Purchaser shall not assign any of its interest or rights under this agreement without written consent of IEC.
- 18. IEC will protect all its lien rights. IEC will not furnish lien waivers or releases until IEC receives payment, in full, at its office in Oklahoma City, Oklahoma from Purchaser for the goods covered by this order. There is no authorized retainage for any reason.
- 9. This Agreement shall be construed, and the rights and liabilities of the parties hereunder shall be determined in accordance with the laws of the State of Oklahoma. If it shall be found that any portion of this agreement violates any particular law of the United States or any state in the United States having jurisdiction or, if applicable, any law of Canada or any province or territory in Canada having jurisdiction, such portion of the agreement shall be of no force and effect in that political unit, division or sub-division in which they are illegal or unenforceable and the agreement shall be treated as if such portion or portions had not been inserted. In the event that any dispute or disagreement in Oklahoma. The statute of limitations on any claim of the Purchaser against the IEC shall be one (1) year from the date the cause of action acrues.
- 20. Without regard to any other agreement, all obligations of Purchaser to IEC shall become immediately due and payable if Purchaser becomes insolvent or if Purchaser does not make payments when due or breaches any other agreement or fails to perform any obligation.
- 21. All orders are expressly limited and made conditional upon acceptance by Purchaser of the terms and conditions set forth above without change. There shall be no understandings, agreements, or obligations (outside these terms and conditions) unless specifically set forth in writing and accepted by signature of an authorized representative of IEC in Oklahoma. City, Oklahoma.
- 22. The parties hereto have requested that these presents and all judicial proceedings relating thereto be drafted in English. Les parties aux présentes ont demandé à ce que les présentes et toutes procedures judiciaires y afférentes soient rédigées en anglais

Forms\IEC\Standard Forms\Word Files\IEC Terms and Conditions 1-Page 09-10.doc







Contact your local IEC Sales Representative for further details and pricing applicable to this product. Visit our website (iec-okc.com) to find your local IEC Sales Rep.

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