





## **Key Design Objectives**



- Improved Reliability
- Energy Efficient
- Lower Cost Servicing
- Focus on Total Life Cost
- Reduced down time
- Increased fault diagnosis & 'solve at source' capability
- Improved beverage quality & consistency





#### Lift Out Pump Deck / Coil Deck

- Modular manufacturing
- Lower cost servicing
- Designed for remanufacture





#### **Installation & Service**

- Improved python manifold arrangement
- Improved manifold stability and strength
- Nut & Nipple connections as standard
- Two stage overflow & Condensate collection tray
- Spare screws
- Hi-Torque type fasteners to eliminate issues with thread wear and need for shake proof washers.
- One tool access to all critical components by removing three screws.
- Self prime soda circuit





#### Agitator & Condenser Fan Motor

- Electronically commutated motor
- Low Energy consumption
- Very Low running temperature compared to traditional motors (improves fridge performance)
- Improved reliability
- Stainless steel Condenser Fan shroud
  (Improved fridge performance)



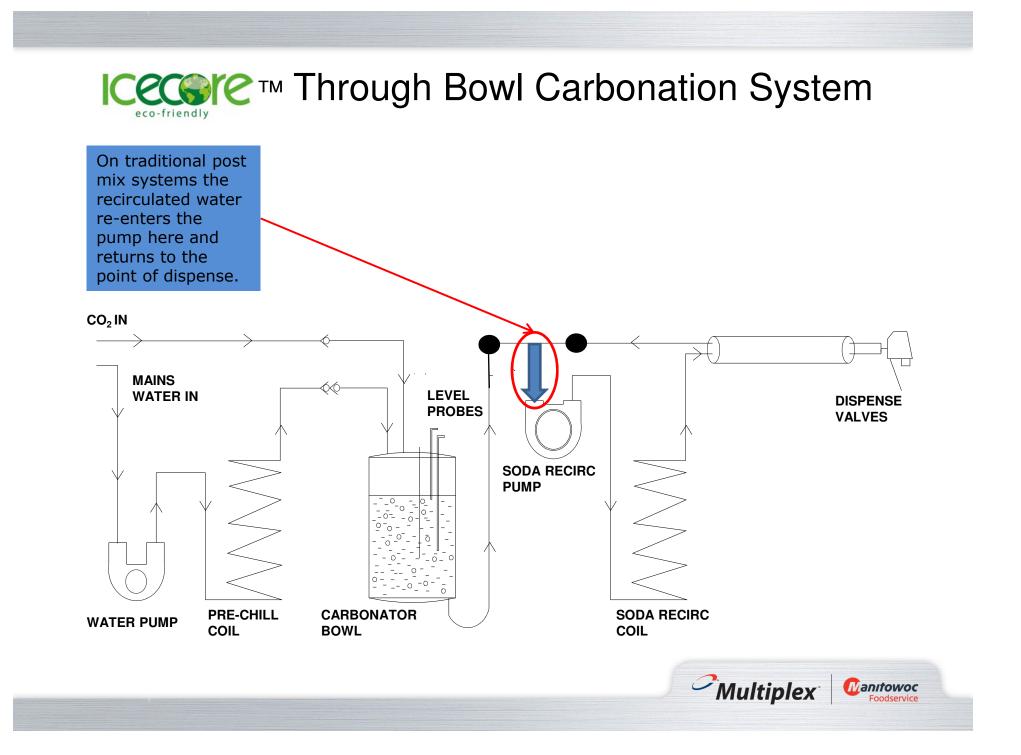




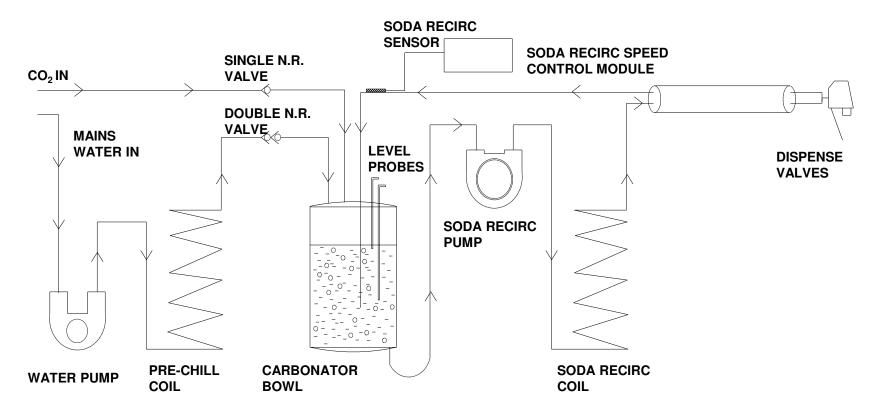
#### **Soda Recirculation**

- Magnetically coupled soda pump.
- Temperature controlled variable speed (500-3500rpm) Energy efficient & increased reliability
- Through Bowl Carbonation (Self-prime, improved beverage consistency & quality)
- Motor windings resin sealed and protected from condensation & leakage from pump failures
- Longer bearing & motor life resulting from lower running temperatures
- Reduced refrigeration cycle times









Recirculating through the carbonator bowl ensures greater product consistency & self priming capability.





## Electronic Control System

- Multi-lingual
- Easy access control panel
- Real time temperature display (Recirc return temperature and bath temperature)
- Adjustable parameters page (password protected)
- Component on/off page
- Lockable screen. Allows pages to be viewed as read only.
- On screen fault diagnostics
  - High Recirc Temperature
  - Clean Condenser
  - High Fridge Temperature
  - Low water pressure (Option)
  - Over Ice
  - High Bath Temperature
  - Carb Time Out
  - Compressor Time Out (18 hours)
  - Carb Over Temperature (Option)
  - Still water boost control. Pressure or electronic (Option)



## **Energy Savings**

Validated energy saving between a standard R134a and R290 Eco Unit on pull down and recovery.

An intelligent control/soda recirc delivers further energy saving over a standard electro-mechanical thermostat/control system.

Trials conducted in the UK have shown as much as a 65% saving over competitor/MBS R134A equivalent.





# **Key Design Objectives**

Requirement	Achieved	How
Reliability Improvement		Improved Refrigeration Balancing EC motors for Agitator, Pumps & Fan.
Ease of Service	6	Modular Build, Removable coil Deck, Single tool Servicing, easy access to critical/exchangeable parts.
Improved Performance		Through Bowl carbonation, Closed Loop Control System, Temperature Controlled Soda Pump, bath insulation and condenser fan motor shroud.
Improved Energy Efficiency		Increased Water Bath Insulation EC Motors, Improved Refrigeration System, Temperature Controlled Soda Recirculation.
Lower Cost of Ownership		All The Above



### Basic & Eco Pack Specifications

Feature	Icecore Basic	Icecore Eco-Pac	Benefit
EC Agitator *		•	Reliability / Energy Reduction / Warranty
EC Condenser Fan *		•	Reliability / Energy Reduction / Warranty
TMFR Recirculation Motor Mag Drive Pump *		•	Reliability / Energy Reduction / Warranty
Smart Electronic Control + Digital Backlit Display	•	•	Energy Reduction / Additional Functionality
Increased Tank Insulation	•	•	Energy Reduction / Performance Improvement
Water Bath Drain	•	•	Installation / Service
Carb Bowl Recirc	•	•	Performance Improvement
Secondary Overflow	•	•	Installation / Service
Energy Reduction **	10% - 15%	60% - 70%	Energy Reduction

Note 1 : \* Forms part of the Eco-Pac and qualifies for a 36 month warranty. Icecore Basic will qualify for a 12 month warranty (in both cases warranty is parts only or back to base).

Note 2 : \*\* Energy reductions confirmed via independent field testing





Feature	Icecore 15 R290 (Benchmark)	Icecore 30 R290
Ice Bank Capacity (kg)	15	30 (+100%)
Dispense Capacity (DPM) *	176	352 (+100%)
Compressor Swept Volume	12cc	14cc (+21%)
Refrigeration Duty (Watts)	800	1040Watts (+30%)
Carbonator Bowl Capacity	1.8Lts	5.2Lts (+188%)

\* Drinks Capacity based on 340ml Drink @ 4.0 Dec C or below.



## **Specification Options**

- Gas Type (R134A/R290)
- Pump Protection (Thermal or pressure)
- Number/Type of coils (Syrup/still/beer)
- Flood Protection Solenoid
- Transformer for valve/lamp supplies (100va/200va)
- CO2 Low Pressure Warning
- CO2 Low Pressure Switch (Valve 24V)
- Still Water Boost (Electric/Pressure drop)
- Unit mounting (Castors/Rubber Feet)
- Outer casing (Silver clad/stainless steel)
- Recirculation pump isolation valves
- Telemetry
- Fitting Kit
- Basic/ECO Pack







