PRODUCT DATA SHEET **TwinIce System**

Date: 06th June 2007
Issue No: 2

The TwinIce system enables dispense of a part frozen, part liquid beverage. This is dispensed through the special dual action tap.
TwinIce is a system and all parts are required for proper function. This means product pre-cooling to 0 to 2°c, cellar management equipment (distribution system or separates) and a link, whether hard wired or RF transmitter between the under counter cooler and the fob detector.

TwinIce Tap

Supplied fitted to font	
Flow rate:	30 sec / pint (1.1 litres/min)
Fixing:	Adaptor to 5/8" BSP
Action:	Piston type (x 2)
Finish: Handle	Chrome
Tap	Stainless and black plastic
Mini python:	Supplied with font

TwinIce Cooler

Performance	
Maximum ambient temperature:	32°C
System Draw Rate:	1 Drink/min at 32°C Ambient

Dimensions – Including inlet fittings and face plate	
Height:	260mm
Width:	650mm
Depth:	500mm
Weight: Dry	43kg
Packed	44kg
Operational	46kg

Electrical	
Mains supply:	230v 1ph 50Hz
Run current:	3.4amps
Start current:	19 amps
Fuse:	13 amps
Consumption: (Cooler alone, no python)	1.4kWh per 24h
Supply:	2m mains cable 3 pin UK Style plug or Euro plug
Dispense Solenoids:	12v DC

TwinIce Cooler (continued)

Refrigeration	
Compressor:	15cc
Compressor starting torque:	High starting torque
Compressor duty: (-5°C Glycol temp)	565 watts
Evaporator Type:	Copper Tube
Condenser type:	Air Cooled – Steel Construction
Expansion device:	TEV
Refrigerant type charge:	R134a – 230g

Fan Motor	
Speed:	2800 rpm
Direction:	Counter Clockwise (shaft end)
Protection:	Thermal Trip
Fan blade diameter:	150mm

Cooling System		
Type:	Liquid	Plate Heat Exchanger
	Frozen	Sealed Freeze Chamber

Heat Exchanger (pre-chill by python re-circulation)	
Coolant:	Glycol/Water 0 to -3°C
Coolant Flow Rate:	3.5 litres per minute

Ice Freeze Cylinder	
Capacity:	1.8 Litres
Pull Down Time – With product at 2°C maximum:	Approx 20mins from start up

Controls	
Control type:	Electronic control on Freeze Cylinder Compressor and Freeze Cylinder Motor
Defrost Timer:	Electronic, Variable
Defrost Factory Settings:	Unit on at 10 am Off at 16.00 pm (Defrost) On at 16.01 pm Unit Off 1.30 am
Pull Down From Defrost:	20mins Approx

Distribution System

It is recommended to use the distribution system to ensure consistent system parameters		
Fob detection:		Cellarbuoy II with reed switch wired to terminal block
Pressure regulation:		Secondary 0-45 Psi (0-3.1 bar)
Product pump:		Gas/Compressed air driven
Cleaning socket:		To suit product
Keg coupler:		To suit product
Connections:		Fully plumbed and tested
Dimensions:	Height	450mm
	Width	430mm
	Depth	150mm
Weight:	Dry	10kg
	Packed	10kg
	Operational	11kg

Radio Frequency (RF) kit

Fitted as an option if fixed cable not used	
Power supply:	Cellar- 230v 50Hz Cooler- plugged into cooler
Receiver:	Plugged into cooler
Transmitter:	Wired to CellarbuoyII reed switch

TwinIce System Requirements

Installation Specification
Product temperature pre-cooled to 0 to 2°C maximum at inlet to TwinIce cooler
Product lines from Cooler to Tap 3/16” tube for both liquid and frozen product
Under counter cooler to be sited no further than 1m from dispense tap
A connection whether hard wire or RF signal is required between the TwinIce cooler and fob detector

Compliance To Standards And Legislation

All coolers comply with Brewers Society Code of Practice for Electrical Safety in Beer Dispense in License Premises. Designed to EN60335 part1 (Safety of Household and Similar Electrical Appliances-General Requirements) Product coils are made from 316 stainless steel. Product complies with the current EMC Directive.

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