



Brewfitt

FUTURE OF DISPENSE

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— 2°
FLOW+
SUB ZERO ICE

ICE BANK
SOLUTION

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FUTURE OF DISPENSE





Revolutionary New Cooling Solution

Providing extra cold, super chilled drinks

A specialist liquid coolant with an accurate range of freeze point temperatures available (-2°C, -3°C, -4°C, etc).

Provides a uniform, crystalline ice store with excellent energy reserves.

Superior thermal & heat transfer properties.

Reduces Cooler energy consumption.

A non-toxic, non-corrosive, stable liquid on all metals.

A pre-mixed solution available in various containers.

Available in Concentrate for high volume requests.



Advantages of 2Flow

Freezes at -2°C (enabling the formation of an ice bank reserve)

More cost effective

Ice bank reserve means peak trading doesn't require more coolers
Uses existing coolers

Doesn't need expensive heavy duty pumps

Far less viscous than glycol (flow rates almost matching that of water)

Excellent thermal and heat transfer properties partly due to flow rates)

Can be transferred into all standard coolers

Non disruptive installation

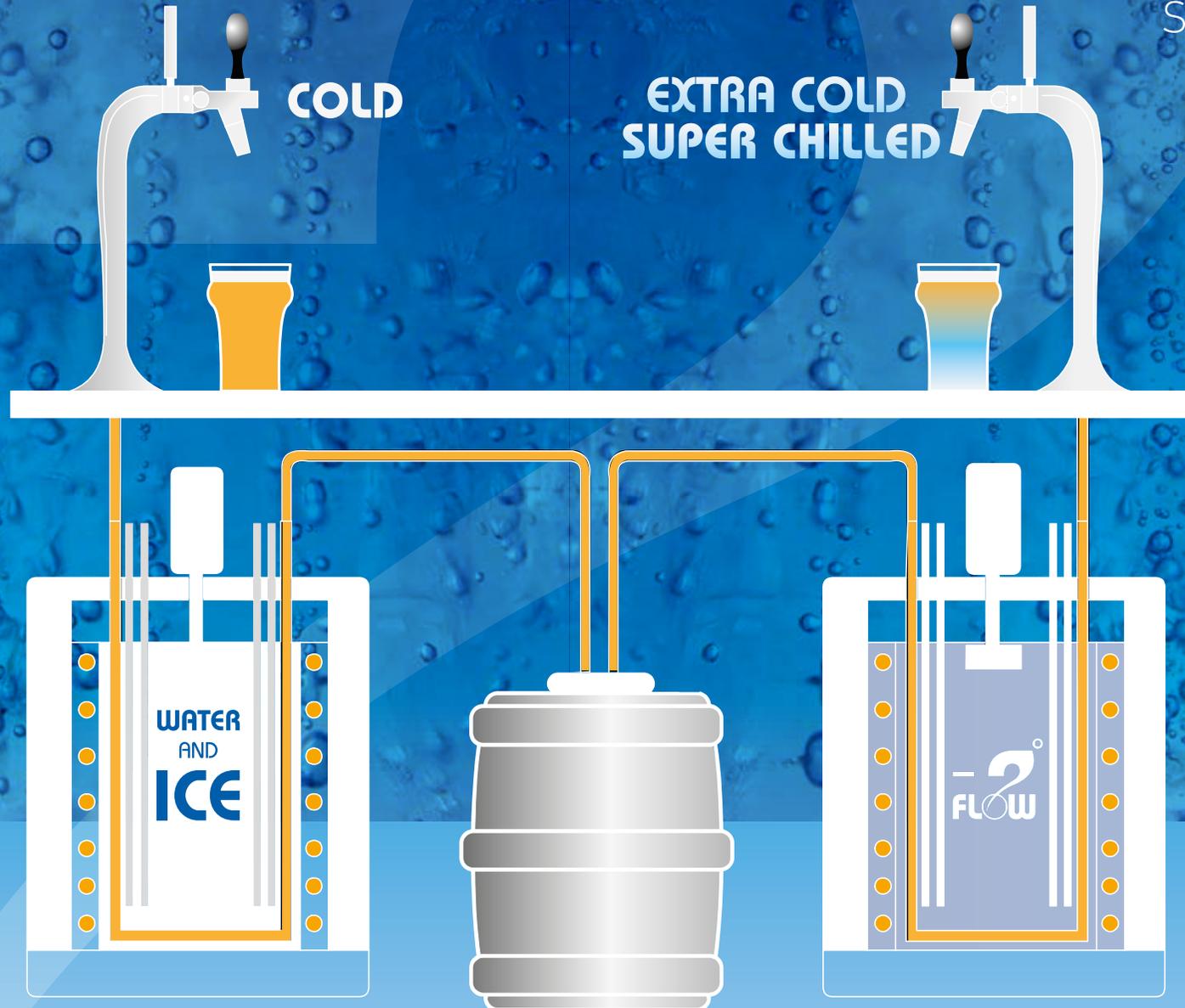
Non corrosive and is not harmful or toxic to the environment

2Flow is 20% more efficient than dilute glycol



The 2Flow Solution

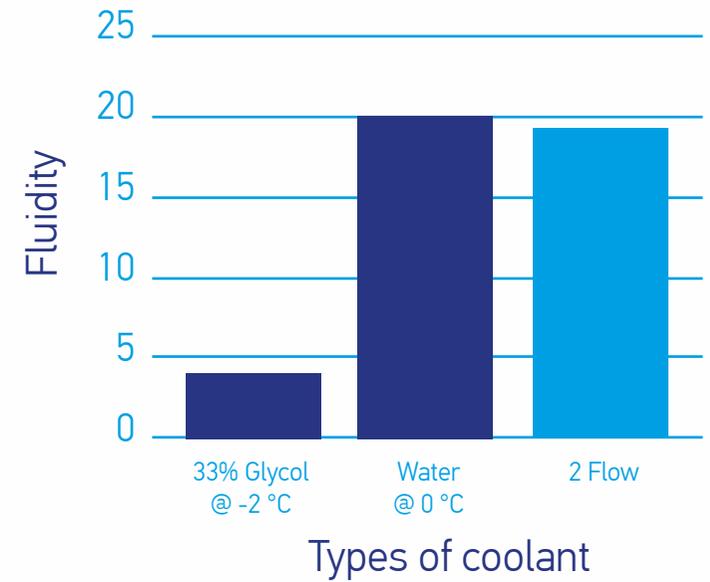
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Viscosity Tests

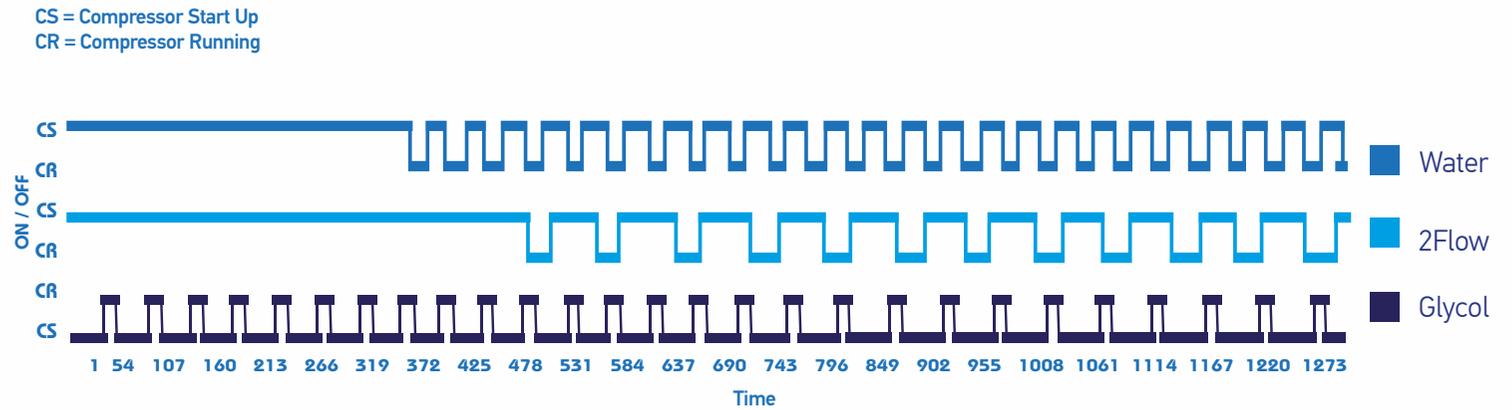
Glycol Disadvantages

- High Viscosity
- Low flow rate
- Less heat transfer
- Stronger pump needed
- More cost



Energy Levels Compressor Usage

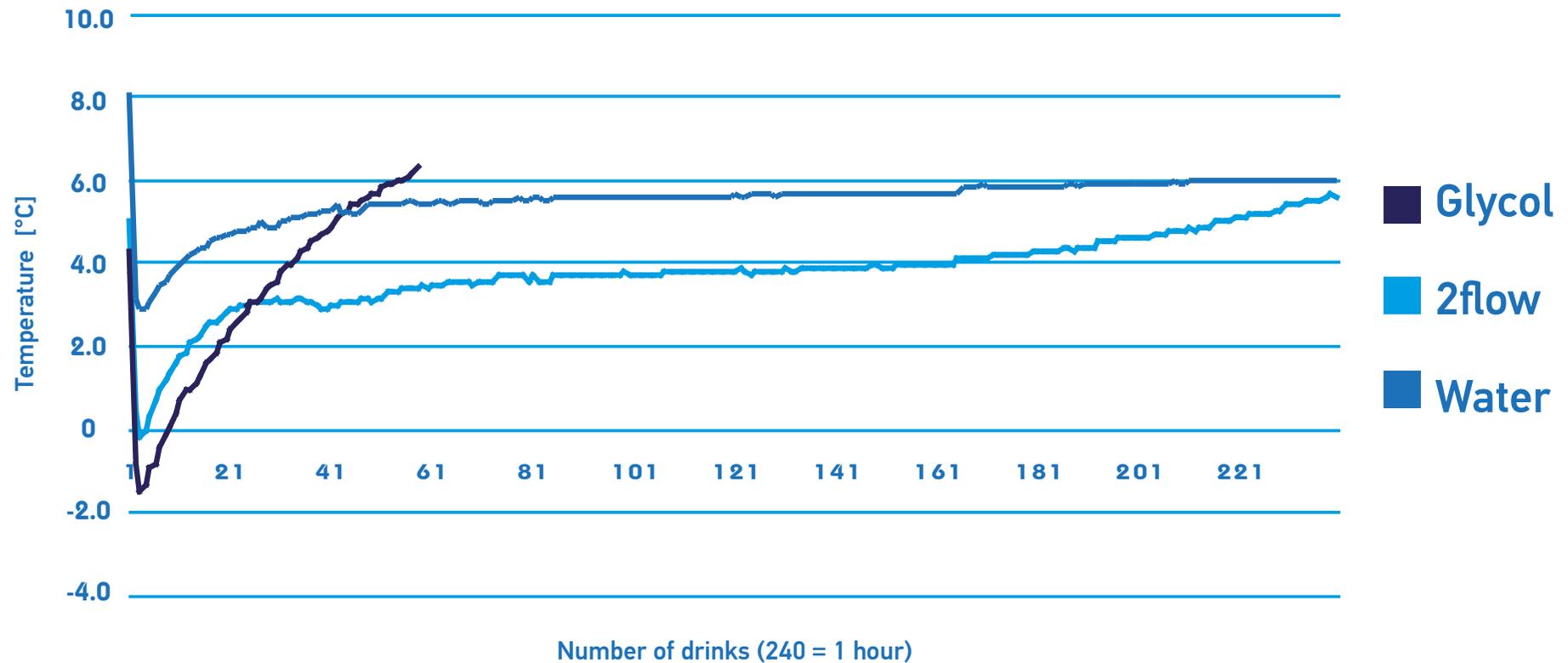
Glycol mixtures cut in far more often than 2Flow & water, leading to an increase in potential maintenance problems and energy usage.



Test Results

TE 25 draw test

$T_{inlet} = 12^{\circ}\text{C}$; Python 15m insulation 19mm; 1 drink = 1 pint; flow rate = 1 pint / 9,5 sec; 4 pint / minute. 2flow and water with 8kg ice bank, glycol without ice bank.



Trade Trial UK

In line temps before and after



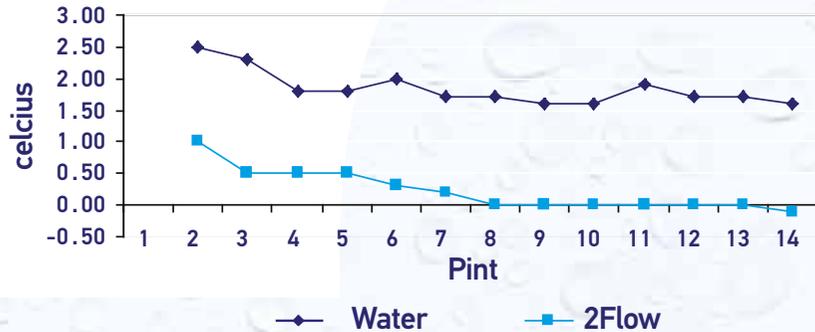
European Trade Trial



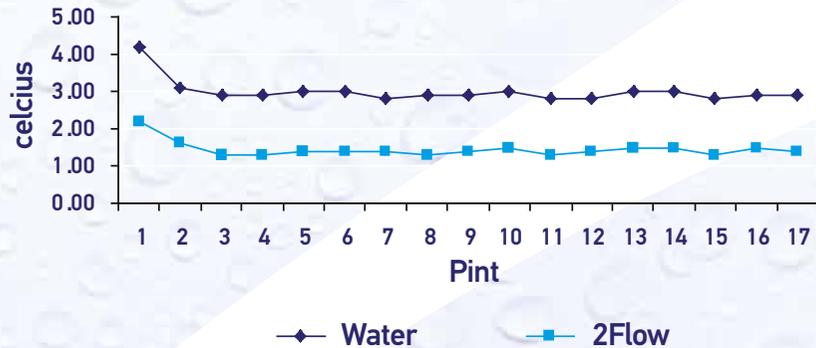
Purpose:

To compare the temperature performance of Brewfitt's 2flow against the temperature performance of a regular cooler.

2Flow Vs Standard Waterbath Coldroom Keg



2Flow Vs Standard Waterbath Store Keg



Day 1

Water bath	Celsius	-0.01	-1.70	
Pint	Standard	2 flow	difference Celsius	
1	2.50	1.00	1.50	
2	2.30	0.50	1.80	
3	1.80	0.50	1.30	
4	1.80	0.50	1.30	
5	2.00	0.30	1.70	
6	1.70	0.20	1.50	
7	1.70	0.00	1.70	
8	1.60	0.00	1.60	
9	1.60	0.00	1.60	
10	1.90	0.00	1.90	
11	1.70	0.00	1.70	
12	1.70	0.00	1.70	
13	1.60	-0.10	1.70	
Average	1.84	0.22	1.62	

Day 2

Water bath	Celsius	0.50	-1.10	
Pint	Standard	2 flow	difference Celsius	
1	4.20	2.20	2.00	
2	3.10	1.60	1.50	
3	2.90	1.30	1.60	
4	2.90	1.30	1.60	
5	3.00	1.40	1.60	
6	3.00	1.40	1.60	
7	2.80	1.40	1.40	
8	2.90	1.30	1.60	
9	2.90	1.40	1.50	
10	3.00	1.50	1.50	
11	2.80	1.30	1.50	
12	2.80	1.40	1.40	
13	3.00	1.50	1.50	
14	3.00	1.50	1.56	
15	2.80	1.30	1.53	
16	2.90	1.50	1.53	
17	2.90	1.40	1.52	
Average	2.99	1.45	1.56	

Method:

Two Calypso 9 coolers were set up under counter one with 2Flow in the water bath and the other with water in the water bath.

The 2Flow cooler had a special thermostat fitted.

Each cooler was allowed 24 hrs to build ice.

The trial was done on kegs from a cold room at 6 °c and from a store at 25 °c.

Conclusion:

- 2flow will give on average 1.5 degrees of a temperature reduction over the standard water bath.
- Recommend on trade trials.

European Trade Trial 2

Results:

Super-Bock Beer
(Continuous taping)

3 Flow

Volume Taping (Liters)	tt (min)	3 Flow Liquid Temperature (°C)	Beer Temperature (°C)	Ice-bank formed
0		-2.9	-2.2	Yes
2.7		-0.3	0.3	Yes
5.4		0.2	1.2	Yes
8.1		2.5	1.4	Yes
10.8		2.8	1.8	Yes
13.5		3.6	2	Yes
16.2		4.2	2.3	Yes
18.9		4.2	2.6	Yes
21.6		4.2	5	Yes
24.3		4.1	5.2	Yes
27		4.1	5.3	Yes
29	~12	4.2	5.4	Yes

Super-Bock Beer
(Taping after every 5 min)

3 Flow

Volume Taping (Liters)	tt (min)	3 Flow Liquid Temperature (°C)	Beer Temperature (°C)	Ice-bank formed
0	0	-2.9	-2.2	Yes
2	5	-2.8	-2.1	Yes
4	10	-2.6	-2.0	Yes
6	15	-2.5	-1.9	Yes
8	20	-2.4	-1.9	Yes
10	25	-2.4	-1.8	Yes
12	30	-2.5	-1.9	Yes
14	35	-2.4	-1.8	Yes
16	40	-2.3	-1.6	Yes
18	45	-2.3	-1.6	Yes
20	50	-2.3	-1.6	Yes
22	55	-2.3	-1.6	Yes
24	60	-2.3	-1.7	Yes
26	65	-2.3	-1.6	Yes

Data:

Congelation point (3 Flow) = -3 °C

Temperature set-point = - 4 °C

Beer :

Super Bock Beer (Alc.(v/v) = 4,8 and CO2 (g/l) = 5,1)

Congelation point (Super-Bock Beer) = -2,2 and -2,5 °C

Temperature ambient (keg temp.) = 20 °C

Beer flow = 2,44 Lts/min

Conclusions:

For continuous taping, the beer temperature ranged between -2,2 and 5,4 °C.

For taping with stops (5 min), the beer temperature ranged between -2,2 and -1,6 °C.

For the same temperature and when we have a continuous taping beer the 3flow efficiency decreases.

Ultra Cool Liquid Innovations

2Flow is the perfect solution

for all ice bank and glycol beer coolers!



A dynamic splash of clear blue water against a white background, with numerous bubbles and droplets visible. The water is splashing from the right side of the frame.

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Canada



USA



Chile



Mexico



UK



Ireland



France



Spain



Portugal



Italy



Netherlands



Poland



Greece



Cyprus



Croatia



Austria



South Africa



UAE



Indonesia



Singapore



China



Japan



Hong Kong



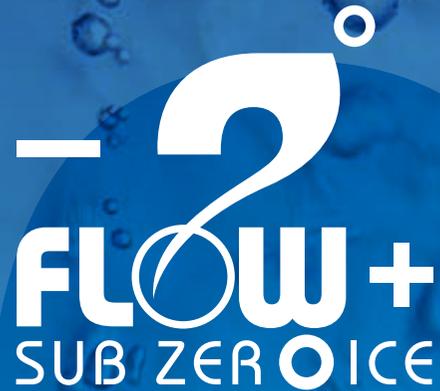
Pacific Islands



Australia



New Zealand



For more information about 2Flow
get in touch today.

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