



# CELLAR COOLING SYSTEMS, ICE MACHINE SPARES & WATER FILTERS

---



T  
SECTION

## J&E Hall JCC Packaged Cellar Cooling Systems

The system consists of two matching units, the JCC2 indoor unit and the J5LC outdoor condensing unit. Galvanised mild steel casing with polyester powder coating. 6 fins per inch brewery specification evaporator coils. Condensing unit fitted with rotary compressor. Low pressure switch fitted to all indoor models. The indoor unit is suitable for wall or ceiling mounting without the use of additional brackets. R410A refrigerant.

**J&E Hall**  
International



### JCC Cellar Cooling System\*

| CODE | DESCRIPTION |
|------|-------------|
| T450 | JCC2 25E    |
| T452 | JCC2 40E    |
| T454 | JCC2 50E    |
| T456 | JCC2 60E    |

\*FSW part number consists of both indoor and outdoor units



### JCC Cellar Cooling System Quick Selection:

**At following conditions:** Based on typical cellar construction. Insulation factor 1.40 w/m<sup>2</sup>. Typical fresh air infiltration, 1.5 air change/hr and lighting loads of 10 w/m<sup>2</sup>. Assumed plant running time 18 hrs/day and product load 16 litres/m<sup>3</sup> and no other mechanical thermal loads.

| MODEL    | ABOVE GROUND<br>(max. room m <sup>3</sup> ) | BELOW GROUND<br>(max. room m <sup>3</sup> ) | COOLING CAPACITIES @ 32°C AMBIENT |      |      |       |      |
|----------|---|---|-----------------------------------|------|------|-------|------|
|          |   |   | 4C                                | 8C   | 10C  | 12.7C | 16C  |
| JCC2 25E | 25  | 45  | 2.70                              | 2.78 | 2.82 | 2.87  | 2.94 |
| JCC2 40E | 48  | 70  | 3.78                              | 4.02 | 4.14 | 4.31  | 4.53 |
| JCC2 50E | 56  | 90  | 4.19                              | 4.45 | 4.59 | 4.78  | 5.02 |
| JCC2 60E | 70  | 120   | 5.29                              | 5.53 | 5.65 | 5.82  | 6.03 |

32°C Ambient, (21°C below ground). Max product load 16 l/m<sup>3</sup> entering at 21°C. System running 18 hours per day.

## JCC Cellar Cooling Systems Specification

### General Specification

| MODEL                | MAX PIPE RUN / RISE** | AIRFLOW M <sup>3</sup> /S | COND UNIT PRE-CHARGE | NOISE LEVEL NR (DB (A)) | PIPE SIZES |        |
|----------------------|-----------------------|---------------------------|----------------------|-------------------------|------------|--------|
|                      |                       |                           |                      |                         | SUCTION    | LIQUID |
| JCC2 25E<br>J5LC 15C | 25m / 5m              | 0.71<br>0.45              | 7.6m                 | 48<br>29                | 1/2"       | 1/4"   |
| JCC2 40E<br>J5LC 20C | 25m / 8m              | 0.63<br>0.61              | 7.6m                 | 48<br>29                | * 1/2"     | 1/4"   |
| JCC2 50E<br>J5LC 25C | 25m / 8m              | 0.74<br>0.69              | 7.6m                 | 47<br>32                | 5/8"       | 1/4"   |
| JCC2 60E<br>J5LC 28C | 25m / 8m              | 0.71<br>0.69              | 7.6m                 | 47<br>34                | * 5/8"     | 3/8"   |

\* Reducer required on indoor unit. Liquid line is the expansion line and requires insulating  
\*\* For pipe runs between 15M and 25M an additional fan speed controller is required please use FSW Code E526

### Weights and Dimensions

| MODEL                | DIMENSIONS (mm) |            |            | WEIGHT KGS |
|----------------------|-----------------|------------|------------|------------|
|                      | W               | D          | H          |            |
| JCC2 25E<br>J5LC 15C | 865<br>700      | 372<br>250 | 489<br>540 | 31<br>34   |
| JCC2 40E<br>J5LC 20C | 865<br>855      | 372<br>328 | 489<br>654 | 34<br>57   |
| JCC2 50E<br>J5LC 25C | 902<br>855      | 370<br>328 | 545<br>756 | 36<br>60   |
| JCC2 60E<br>J5LC 28C | 902<br>855      | 370<br>328 | 545<br>756 | 38<br>65   |

## J&E Hall Cellar+ Packaged Cellar Cooling Systems

Introducing the all new 7kW & 8kW Cellar+ systems from J&E Hall. With increased capacity and longer pipe runs, the new systems are an ideal solution for larger cellar cooler applications

### FEATURES & BENEFITS

- Up to 50m pipe run capability for total flexibility\*
- Ease of installation
- Room temperature down to 4°C
- Operates with either R448A and R449A refrigerant
- Air straighteners fitted as standard for increased air throw
- Expansion valve kit included
- 3 years manufacturer's warranty for total peace of mind
- Single phase and three phase outdoor unit option
- Outdoor units with high quality Copeland scroll compressors



### Cellar+ Cooling System

| CODE | DESCRIPTION       | VOLTAGE |
|------|-------------------|---------|
| T510 | Cellar Plus 70-S1 | 1ph     |
| T512 | Cellar Plus 70-S3 | 3ph     |
| T518 | Cellar Plus 80-S1 | 1ph     |
| T520 | Cellar Plus 80-S3 | 3ph     |

## Cellar+ Cooling System Quick Selection:

**At following conditions:** Based on typical cellar construction. Insulation factor 1.40 w/m<sup>2</sup>. Typical fresh air infiltration, 1.5 air change/hr and lighting loads of 10 w/m<sup>2</sup>. Assumed plant running time 18 hrs/day and product load 16 litres/m<sup>3</sup> and no other mechanical thermal loads.

| MODEL                | ABOVE GROUND<br>(max. room m <sup>3</sup> ) | BELOW GROUND<br>(max. room m <sup>3</sup> ) | COOLING CAPACITIES @ 32°C AMBIENT |     |     |       |     |
|----------------------|---|---|-----------------------------------|-----|-----|-------|-----|
|                      |   |   | 4C                                | 8C  | 10C | 12.7C | 16C |
| Cellar Plus 70-S1/S3 | 100   | 155   | 5.5                               | 6.4 | 6.9 | 7.5   | 8.2 |
| Cellar Plus 80-S1/S3 | 120   | 180   | 6.7                               | 7.5 | 7.9 | 8.5   | 9.1 |

32°C Ambient, (21°C below ground). Max product load 16 l/m<sup>3</sup> entering at 21C. System running 18 hours per day.

## Cellar+ Cellar Cooling Systems

### General Specification

| System            | EVAP MODEL | POWER SUPPLY | FLC | SFR | AIR FLOW | AIR FLOW | NOISE LEVEL @10M | COND UNIT MODEL | POWER SUPPLY | MCC  | LRC  | SFR | AIR FLOW | NOISE LEVEL @ 10M | MAX PIPE RUN |
|-------------------|------------|--------------|-----|-----|----------|----------|------------------|-----------------|--------------|------|------|-----|----------|-------------------|--------------|
|                   |            |              |     |     |          |          |                  |                 |              |      |      |     |          |                   |              |
| Cellar Plus 70-S1 | JCC2-80E   | 230/1/50     | 1.9 | 6   | 4070     | 10       | 50               | BSCU-30-M1      | 230/1/50     | 21.5 | 82.0 | 25  | 2765     | 34                | 50           |
| Cellar Plus 70-S3 | JCC2-80E   | 230/1/50     | 1.9 | 6   | 4070     | 10       | 50               | BSCU-30-M3      | 400/3/50     | 10.3 | 40.0 | 16  | 2765     | 34                | 50           |
| Cellar Plus 80-S1 | JCC2-80E   | 230/1/50     | 1.9 | 6   | 4070     | 10       | 50               | BSCU-35-M1      | 230/1/50     | 25.0 | 97.0 | 32  | 3350     | 36                | 50           |
| Cellar Plus 80-S3 | JCC2-80E   | 230/1/50     | 1.9 | 6   | 4070     | 10       | 50               | BSCU-35-M3      | 400/3/50     | 9.0  | 46.0 | 20  | 3350     | 36                | 50           |

Noise levels are measured in an anechoic chamber at nominal test conditions (Troom 10°C / 32°C Ta)  
Air throws are based on a final velocity of 0.4m/s

Maximum pipe run is total equivalent length of all piping  
SFR ~ Suggested Fuse Rating (Motor Rated for Outdoor Unit)

### Weights and Dimensions

| MODEL                | INDOOR MODEL | WIDTH (MM) ① | DEPTH (MM) ② | HEIGHT (MM) | WEIGHT (KG) | OUTDOOR MODEL | WIDTH (MM) | DEPTH (MM) | HEIGHT (MM) | WEIGHT (KG) |
|----------------------|--------------|--------------|--------------|-------------|-------------|---------------|------------|------------|-------------|-------------|
| Cellar Plus 70-S1/S3 | JCC2-80E     | 1437         | 505          | 557         | 63          | BSCU-30-M1/M3 | 1108       | 478        | 650         | 77          |
| Cellar Plus 80-S1/S3 | JCC2-80E     | 1437         | 505          | 557         | 63          | BSCU-35-M1/M3 | 1334       | 530        | 864         | 97          |

① Indoor unit width excludes pipe services - add approximately 70mm ② Indoor unit depth includes fan motor

### Installation Piping Guide

| SYSTEM              | CONDENSING UNIT MODEL | EVAPORATOR MODELS | TEV Model | Pipe Sizing: 10°C Cellar R448A/R449A |         |        |         |        |         |
|---------------------|-----------------------|-------------------|-----------|--------------------------------------|---------|--------|---------|--------|---------|
|                     |                       |                   |           | 10m                                  |         | 20m    |         | 30m    |         |
|                     |                       |                   |           | Liquid                               | Suction | Liquid | Suction | Liquid | Suction |
| CellarPlus 70-S1/S3 | BSCU-30-M1/M3         | 1x JCC2-80E       | 1x TE2-03 | 3/8"                                 | 3/4"    | 3/8"   | 7/8"    | 3/8"   | 7/8"    |
| CellarPlus 80-S1/S3 | BSCU-35-M1/M3         | 1x JCC2-80E       | 1x TE2-04 | 1/2"                                 | 7/8"    | 1/2"   | 7/8"    | 1/2"   | 7/8"    |

\*For pipe runs between 30-50m please contact the FSW Tech Dept

# J&E Hall Twin Cellar+ Systems

To expand the application of the current cellar cooler range, three new twin systems using new outdoor units are now available.

They offer lower GWP refrigerant options and longer pipe runs.

## Outdoor Unit

- Single phase and three phase option
- High quality Copeland scroll compressors
- Blue Fin coating on condenser coils for added protection

## Features & Benefits

- Up to 50m pipe run capability for total flexibility\*
- Ease of installation
- Air straighteners included for increased air flow
- Expansion valve kits included
- Room temperature down to 4°C
- Operates with either R448A and R449A refrigerant

## Twin Cellar+ Cooling System

| CODE | DESCRIPTION       | VOLTAGE |
|------|-------------------|---------|
| T514 | Cellar Plus 70-T1 | 1ph     |
| T516 | Cellar Plus 70-T3 | 3ph     |
| T522 | Cellar Plus 80-T1 | 1ph     |
| T524 | Cellar Plus 80-T3 | 3ph     |
| T526 | Cellar Plus 90-T1 | 1ph     |
| T528 | Cellar Plus 90-T3 | 3ph     |



## Twin Cellar+ Cooling System Quick Selection:

At following conditions: Based on typical cellar construction. Insulation factor 1.40 w/m<sup>2</sup>. Typical fresh air infiltration, 1.5 air change/hr and lighting loads of 10 w/m<sup>2</sup>. Assumed plant running time 18 hrs/day and product load 16 litres/m<sup>3</sup> and no other mechanical thermal loads.

| MODEL                | ABOVE GROUND<br>(max. room m3) | BELOW GROUND<br>(max. room m3) | COOLING CAPACITIES @ 32°C AMBIENT |     |     |       |      |
|----------------------|--------------------------------|--------------------------------|-----------------------------------|-----|-----|-------|------|
|                      |                                |                                | 4C                                | 8C  | 10C | 12.7C | 16C  |
| Cellar Plus 70-T1/T3 | 100                            | 155                            | 6.3                               | 6.9 | 7.2 | 7.6   | 8.0  |
| Cellar Plus 80-T1/T3 | 120                            | 180                            | 6.7                               | 7.5 | 7.9 | 8.5   | 9.2  |
| Cellar Plus 90-T1/T3 | 145                            | 210                            | 8.0                               | 8.8 | 9.2 | 9.7   | 10.3 |

32°C Ambient, (21°C below ground). Max product load 16 l/m<sup>3</sup> entering at 21°C. System running 18 hours per day.

## General Specification

| System            | EVAP MODEL (2x) | POWER SUPPLY | FLC | SFR | AIR FLOW | AIR FLOW | NOISE LEVEL @10M | COND UNIT MODEL | POWER SUPPLY | MCC  | LRC   | SFR | AIR FLOW | NOISE LEVEL @ 10M | MAX PIPE RUN |
|-------------------|-----------------|--------------|-----|-----|----------|----------|------------------|-----------------|--------------|------|-------|-----|----------|-------------------|--------------|
|                   |                 |              |     |     |          |          |                  |                 |              |      |       |     |          |                   |              |
| Cellar Plus 70-T1 | JCC2-40E        | 230/1/50     | 1.0 | 6   | 2270     | 8        | 48               | BSCU-30-M1      | 230/1/50     | 21.5 | 82.0  | 25  | 2765     | 34                | 50           |
| Cellar Plus 70-T3 | JCC2-40E        | 230/1/50     | 1.0 | 6   | 2270     | 8        | 48               | BSCU-30-M3      | 400/3/50     | 10.3 | 40.0  | 16  | 2765     | 34                | 50           |
| Cellar Plus 80-T1 | JCC2-50E        | 230/1/50     | 1.0 | 6   | 2680     | 8        | 47               | BSCU-35-M1      | 230/1/50     | 25.0 | 97.0  | 32  | 3350     | 36                | 50           |
| Cellar Plus 80-T3 | JCC2-50E        | 230/1/50     | 1.0 | 6   | 2680     | 8        | 47               | BSCU-35-M3      | 400/3/50     | 9.0  | 46.0  | 20  | 3350     | 36                | 50           |
| Cellar Plus 90-T1 | JCC2-60E        | 230/1/50     | 1.0 | 6   | 2560     | 8        | 47               | BSCU-40-M1      | 230/1/50     | 28.0 | 114.0 | 40  | 4250     | 41                | 50           |
| Cellar Plus 90-T3 | JCC2-60E        | 230/1/50     | 1.0 | 6   | 2560     | 8        | 47               | BSCU-40-M3      | 400/3/50     | 9.0  | 50.0  | 20  | 4250     | 41                | 50           |

Above selections based on typical UK cellar construction: 32°C ambient (21°C for below ground)  
Product cooling time 24 hours, plant running time of 18 hours a day

Maximum product load of 16 l/m<sup>3</sup> entering room at max temp of 21°C

## Weights and Dimensions

| MODEL                | INDOOR MODEL | WIDTH (MM) ① | DEPTH (MM) ② | HEIGHT (MM) | WEIGHT (KG) | OUTDOOR MODEL | WIDTH (MM) | DEPTH (MM) | HEIGHT (MM) | WEIGHT (KG) |
|----------------------|--------------|--------------|--------------|-------------|-------------|---------------|------------|------------|-------------|-------------|
| Cellar Plus 70-T1/T3 | JCC2-40E     | 155          | 155          | 155         | 33          | BSCU-30-M1/M3 | 1108       | 478        | 650         | 77          |
| Cellar Plus 80-T1/T3 | JCC2-50E     | 180          | 180          | 180         | 36          | BSCU-35-M1/M3 | 1334       | 530        | 864         | 97          |
| Cellar Plus 90-T1/T3 | JCC2-60E     | 210          | 210          | 210         | 38          | BSCU-40-M1/M3 | 1351       | 530        | 864         | 107         |

① Indoor unit width excludes pipe services - add approximately 70mm ② Indoor unit depth includes fan motor

## Installation Piping Guide

| SYSTEM              | CONDENSING UNIT MODEL | EVAPORATOR MODELS | TEV Model | Pipe Sizing: 10°C Cellar R448A/R449A |                           |                           |                           |                           |                             |
|---------------------|-----------------------|-------------------|-----------|--------------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|-----------------------------|
|                     |                       |                   |           | 10m                                  |                           | 20m                       |                           | 30m                       |                             |
|                     |                       |                   |           | Liquid                               | Suction                   | Liquid                    | Suction                   | Liquid                    | Suction                     |
| CellarPlus 70-T1/T3 | BSCU-30-M1/M3         | 2x JCC2-40E       | 2x TE2-03 | <b>3/8"</b><br>(2 x 3/8")            | <b>3/4"</b><br>(2 x 5/8") | <b>3/8"</b><br>(2 x 3/8") | <b>7/8"</b><br>(2 x 5/8") | <b>3/8"</b><br>(2 x 3/8") | <b>7/8"</b><br>(2 x 5/8")   |
| CellarPlus 80-T1/T3 | BSCU-35-M1/M3         | 2x JCC2-50E       | 2x TE2-04 | <b>1/2"</b><br>(2 x 3/8")            | <b>7/8"</b><br>(2 x 5/8") | <b>1/2"</b><br>(2 x 3/8") | <b>7/8"</b><br>(2 x 5/8") | <b>1/2"</b><br>(2 x 3/8") | <b>7/8"</b><br>(2 x 5/8")   |
| CellarPlus 90-T1/T3 | BSCU-40-M1/M3         | 2x JCC2-60E       | 2x TE2-03 | <b>1/2"</b><br>(2 x 3/8")            | <b>7/8"</b><br>(2 x 3/4") | <b>1/2"</b><br>(2 x 3/8") | <b>7/8"</b><br>(2 x 3/4") | <b>1/2"</b><br>(2 x 3/8") | <b>1-1/8"</b><br>(2 x 3/4") |

- The pipe sizes indicated in bold are from condensing unit to 'T' piece. - The pipe sizes indicated in brackets are from the 'T' piece to each evaporator.  
- The pipe sizes indicated in brackets are from the 'T' piece to each evaporator. \*For pipe runs between 30-50m please contact the FSW Tech Dept

## J&E Hall Ambient Beer Cooler

It is estimated that up to a quarter of a pub's energy bill can be accounted for by its cellar cooling requirements, so publicans and breweries are often looking for a more cost effective way to cool their cellars. The J & E Hall ambient beer cooler provides the answer.

Most beer cellars are kept at 10°C and the UK temperature between October and April often falls below that figure. When the outdoor temperature falls to 8°C Or below, the J & E Hall ambient beer cooler uses the cold outdoor air to cool your cellar at a fraction of the cost.

The ambient beer cooler is a fan module that, when the outside temperature is low enough, brings cold air into the cellar to reduce the temperature. Typical annual savings can be up to 40%.

**J&E Hall**  
International



| CODE | DESCRIPTION         |
|------|---------------------|
| T468 | Ambient Beer Cooler |
| T472 | Installation Kit    |

## Installation

The J & E Hall ambient beer cooler is easy to mount via simple "keyhole" fixings and is compatible with any make of new and existing refrigeration cellar cooling system.

The unit is fitted to an internal cellar wall and connected to the outside via a rigid 150mm circular duct.

It is then electrically connected to a mains supply and the refrigeration cellar cooler system.

The J & E Hall ambient beer cooler will sense if the outdoor ambient temperature is low enough to provide cooling to the cellar and will switch off the refrigeration cellar cooler system while it can draw in cold air from the outside.

If the outdoor temperature rises above 8°C the ambient beer cooler will turn itself off and revert back to the refrigeration cellar cooler system.

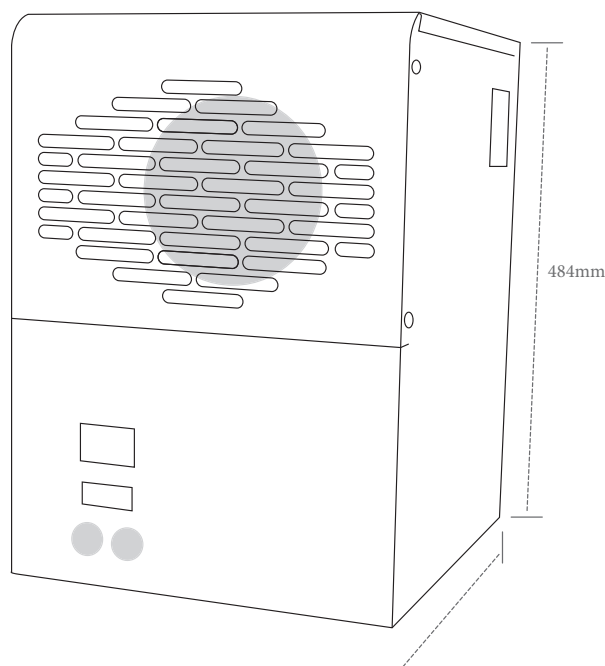
| Unit Weight | Supply Voltage | Suggested Fuse rating |
|-------------|----------------|-----------------------|
| 12kgs       | 230/1/50hz     | 6A                    |

### Ambient Beer Cooler supplied with...

- ▶ Fresh air entry duct (rear or base entry)
- ▶ Ambient air temperature sensor
- ▶ Cellar temperature sensor
- ▶ Washable air filter
- ▶ 2m mains lead
- ▶ Instruction manual

### Installation Kit supplied with...

- ▶ Outside wall grille
- ▶ 2 internal door relief grilles
- ▶ 1 x 500mm length of 150mm ø plastic ducting

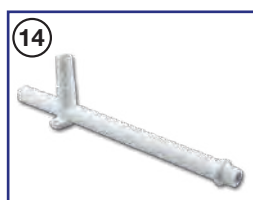
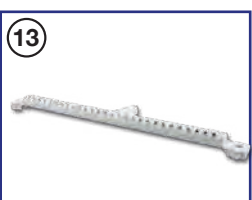
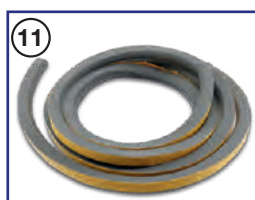
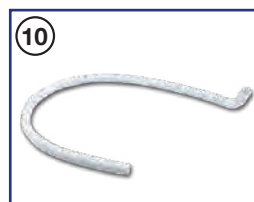
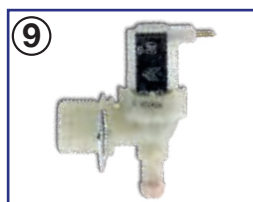
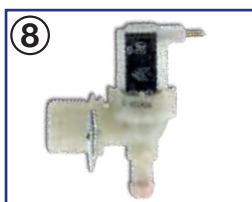
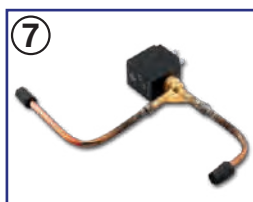
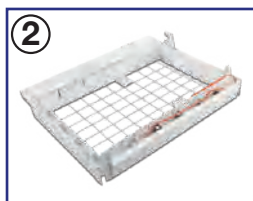
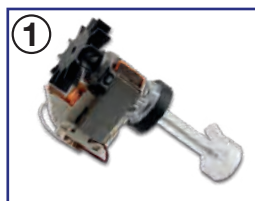


**J&E Hall**  
International

## Ice Machine Spares K20 & K40

For Philips, Whirlpool and Ignis ice machines. Spares for other makes are available to order.

| CODE | MODEL | DESCRIPTION                       | IMAGE NUMBER |
|------|-------|-----------------------------------|--------------|
| T250 |       | Water Pump (See Note Below)       | 1            |
| T252 |       | Cutting Grid                      | 2            |
| T254 |       | Bin Thermostat                    | 3            |
| T256 |       | Thickness Thermostat              | 4            |
| T258 |       | Hot Gas Coil (Large)              | 5            |
| T260 |       | Hot Gas Valve Coil Only (ODE) New | 6            |
| T261 |       | Hot Gas Valve (Complete)          | 7            |
| T265 |       | Inlet Valve for K20               | 8            |
| T266 |       | Inlet Valve for K40               | 9            |
| T267 |       | Drain Hose                        | 10           |
| T248 |       | K20/40 Gasket Seal                | 11           |
| T249 |       | K40 Microswitch Arm               | 12           |
| T268 |       | K20/40 Spray Bar                  | 13           |
| T269 |       | K20/40 Drain Tee (Internal)       | 14           |
| T270 |       | K20/40 Green Switch               | 15           |



Note: The twelve month warranty on this pump will be invalid if it becomes seized due to cleaning maintenance not being carried out on a regular basis.

## Everpure Water Filters

The Everpure "H" series filters have been designed for use with ice machines, hot drink and coffee machines where the appliances are susceptible to scale formation. The filters remove all impurities as small as 0.5 micron and eliminates all off-tastes and odours such as chlorine.

| CODE | DESCRIPTION | RATED FLOW            |
|------|-------------|-----------------------|
| T282 | 4H Filter   | 1.9 l/min (5768 ltr)  |
| T284 | MH Filter   | 6.3 l/min (34000 ltr) |

