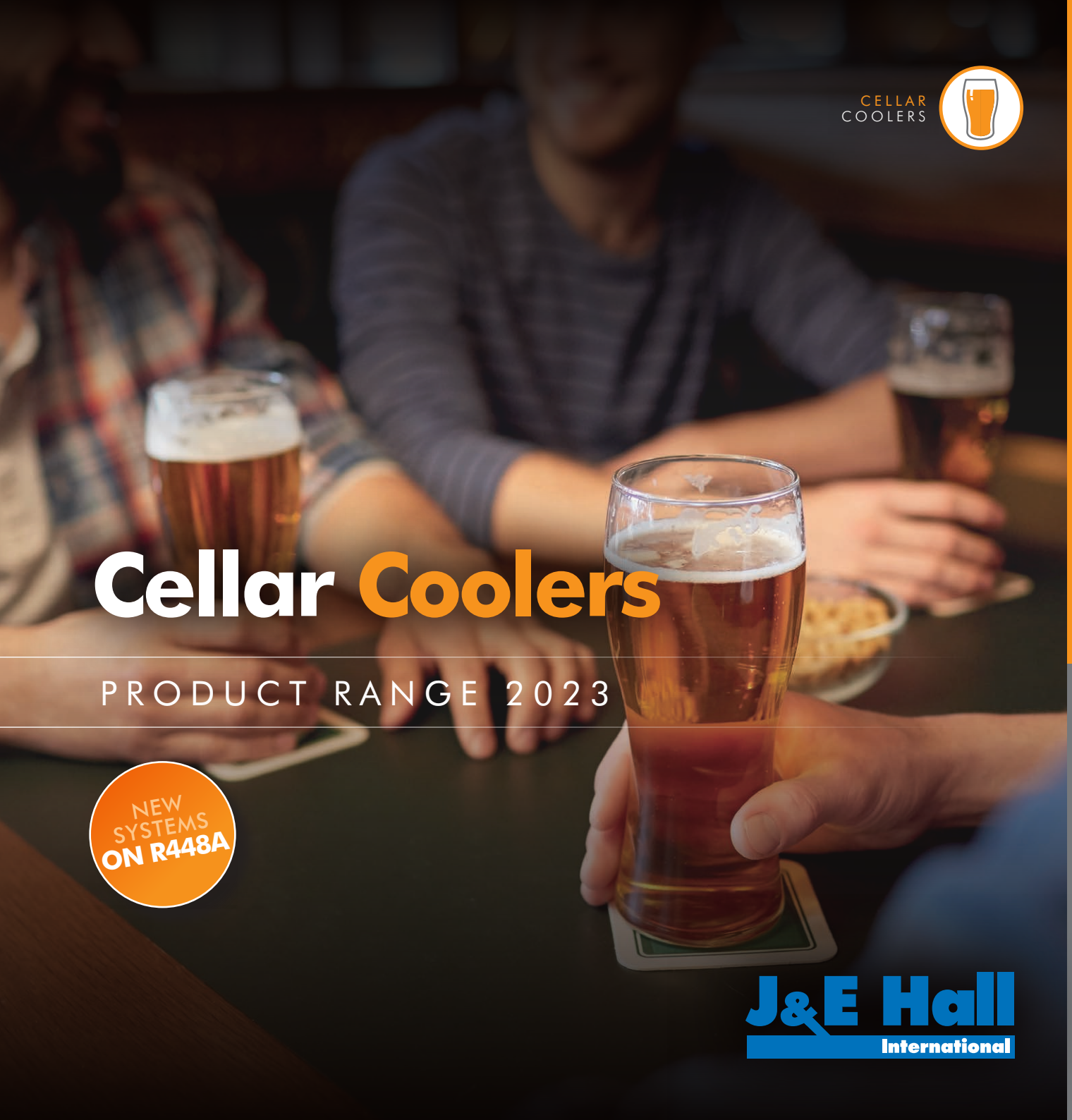


CELLAR
COOLERS

Cellar Coolers

PRODUCT RANGE 2023

NEW SYSTEMS ON R448A

J&E Hall International

Cellar Cooler Product Range

Ideal for beer cellars and other cooling applications down to 4°C room temperature

J & E Hall's complete range of cellar coolers provide a cost effective and reliable solution to maintain specific temperatures required for beer and wine cellars.

The indoor units, which can be wall or ceiling mounted to maximise space, utilise brewery specifications 6 fins per inch evaporator coils and are manufactured to the highest specifications to ensure long trouble free operation.

All systems operate using R448A or R449A

Three ranges of cellar cooler systems are available, the JCC range for smaller cellar cooling applications, Cellar+ and Twin Cellar+ ranges for larger capacity needs.

In addition to the refrigeration systems, we offer the JABC Ambient Beer Cooler which utilises cool outdoor ambient air to cool the cellar and so save energy costs by reducing the running time of the refrigeration systems.

Markets Served:

Pubs

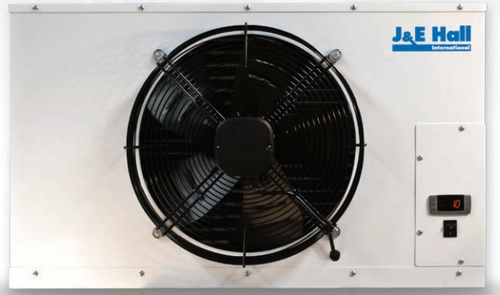
Florists

Fruit & Vegetables

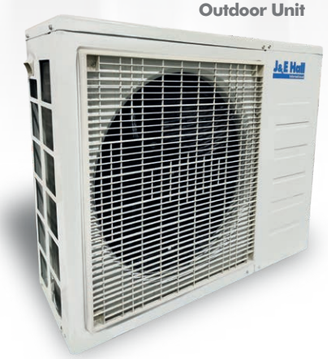
Dairy Products

JCC Cellar Coolers

Indoor Unit



Outdoor Unit



Our standard JCC range is designed to withstand the demands of everyday cellar cooling requirements.

An evaporator **Air Straightener Kit** is available as a retrofit item for indoor unit models. When fitted, it "concentrates" the discharge air and increases the airthrow distance.

Features & Benefits

- Up to 25m pipe run capability for total flexibility
- Ease of installation keeps costs and time to a minimum
- 3 years manufacturer's warranty gives total peace of mind
- Low noise suitable for residential areas
- Achieves room temperature down to 4°C* so can be used for many types of product cooling
- Operates with either R448A or R449A
- Electronic controller as standard giving accurate temperature control

*** Note**
For installations that exceed 15m pipe runs then minimum room temperature achievable is 6°C. Also it is recommended that in these applications a condenser fan speed controller should be fitted within the system (available from the wholesaler).

JCC Cellar Coolers

Quick Selection Guide

System	Indoor/Outdoor Unit	Quick Selection @ 12.7°C		Cooling Capacities kW @ 32°C Ambient					
		Above ground (max. room m³)	Below ground (max. room m³)	4°C	8°C	10°C	12°C	12.7°C	16°C
JCC3-25	JCC3-25E / J6LC26CV1	25	45	2.41	2.59	2.67	2.76	2.79	2.94
JCC3-40	JCC3-40E / J6LC41CV1	45	70	3.47	3.76	3.91	4.06	4.11	4.35
JCC3-55	JCC3-55E / J6LC56CV1	65	115	4.63	5.10	5.33	5.56	5.64	6.03

Above selection based on typical UK cellar construction: 32°C ambient (21°C for below ground)
Maximum product load of 16 l/m³ entering room at max temp of 21°C
Product cooling time 24 hours, plant running time of 18 hours a day

General Specifications

System	System Part Number	Nominal Cooling Capacity	Indoor/ Outdoor Unit Models	Airflow	Indoor Air Throw	Noise Level	System Pipe Sizes		Maximum Pipe Run		Power Supply	FLA	LRA	Power To…	Inter Connecting Cable	Fuse Rating
		kW		M³/h	m	dB(A)	Liquid	Suction	Length	Rise	(V/Ph/Hz)	(Amps)	(Amps)			(Amps)
JCC3-25	N04110105	2.79	JCC3 - 25E	2560	8	48	1/4"	1/2"	25m	5m	230/1/50	5.3	N/A	Indoor	5 Core	16
			J6LC26CV1	2070	n/a	26							30			
JCC3-40	N04110106	4.11	JCC3 - 40E	2270	8	48	1/4"	*1/2"	25m	8m	230/1/50	8.2	N/A	Indoor	5 Core	20
			J6LC41CV1	2225	n/a	26							36			
JCC3-55	N04110107	5.64	JCC3 - 55E	2475	8	45	*1/4"	*5/8"	25m	8m	230/1/50	10.2	N/A	Indoor	5 Core	25
			J6LC56CV1	2984	n/a	31							42			

*Reducer required at indoor unit connections (JCC3-40E: 5/8" X 1/2" C x C) (JCC3-55E: 3/8" X 1/4" C X C + 3/4" X 5/8" C x C)
Liquid line is the expansion line and as such requires insulating
Indoor air throws are based on a final velocity of 0.4 m/s
RLA = Rated Load Amps for system/LRA = Locked Rotor Amps for compressor

Weights & Dimensions

Indoor Model	Width ① (mm)	Depth ② (mm)	Height (mm)	Weight (Kg)
JCC3-25E	865	492	489	31
JCC3-40E	865	492	489	33
JCC3-55E	904	491	546	38

Outdoor Model	Width ① (mm)	Depth ② (mm)	Height (mm)	Weight (Kg)
J6LC26CV1	855	328	651	38
J6LC41CV1	855	328	651	42
J6LC56CV1	855	328	753	46

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

Chill Room Applications

J & E Hall cellar coolers can be used for varied applications where room temperatures down to 4°C are required.

Selections based on:

- Room temperature of +4°C
- 32°C ambient
- R448A/R449A
- Room construction 80mm panel to walls, ceiling and floor
- Average door usage
- Product loading based on maximum 64kg/m³ entering at no more than 5°C above room temperature

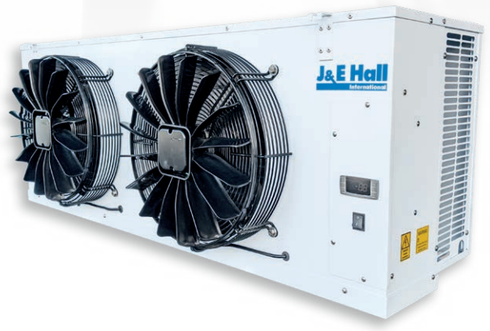
MODEL	ROOM SIZE
JCC3-25	20m³
JCC3-40	40m³
JCC3-55	55m³

Criteria

Criteria	System	System refrigerant requirements (base charge / additional)	TCO_2 Eq
• Noise levels are free field at 10m • Nominal cooling capacities shown @ 12.7°C / 32°C ambient • Systems require refrigerant base charge adding as shown for pipe runs up to 7.6m • The maximum pipe run must include the rise - the rise is not additional to the length	JCC3-25	1.30kg R448/9A - Additional charge 12g per metre	1.80
	JCC3-40	1.75kg R448/9A - Additional charge 6g per metre	2.43
	JCC3-55	2.20kg R448/9A - Additional charge 15g per metre	3.05

Important Note: Outdoor units do not come pre-charged with refrigerant

Cellar+ Systems



FOR LONGER PIPE RUNS & INCREASED CAPACITY APPLICATIONS

A powerful single indoor unit system giving exceptional cooling performance together with accurate temperature control, operating with low GWP refrigerants and capable of longer pipe runs. Ideal for the larger 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 or R449A
- Single and three phase outdoor unit option
- Expansion valve fitted
- Air straighteners fitted as standard for increased air throw
- 3 years manufacturer's warranty for total peace of mind
- All outdoor units with high quality Copeland scroll compressors
- Blue fin coating on outdoor coils for added protection

Quick Selection Guide

System	Indoor/ Outdoor Unit	Quick Selection @ 10°C		Cooling Capacities kW @ 32°C Ambient					
		Above ground (max. room m³)	Below ground (max. room m³)	4°C	6°C	8°C	10°C	12°C	12.7°C
Cellar Plus 70-S1/S3	JCC2-80EV / BSCU-30-M1/M3	100	155	5.5	6.0	6.4	6.9	7.4	7.5
Cellar Plus 80-S1/S3	JCC2-80EV / BSCU-35-M1/M3	120	180	6.7	7.1	7.5	7.9	8.4	8.5

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/m³ entering room at max temp of 21°C

General Specifications

System	Part Number	Evaporator Model	Power Supply V/Ph/Hz	FLC Amps	SFR Amps	Air Flow M³/h	Air Throw M	Noise Level @10m db(A)	Condensing Unit Model	Power Supply V/Ph/Hz	MCC Amps	LRC Amps	SFR Amps	Air Flow M³/h	Noise Level @10m dB(A)	Max Pipe Run
Cellar Plus 70-S1	N04110043	JCC2-80EV	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	N04110044	JCC2-80EV	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	N04110045	JCC2-80EV	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	N04110046	JCC2-80EV	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 piping
SFR - Suggested Fuse Rating (Motor Rated for Outdoor Unit)

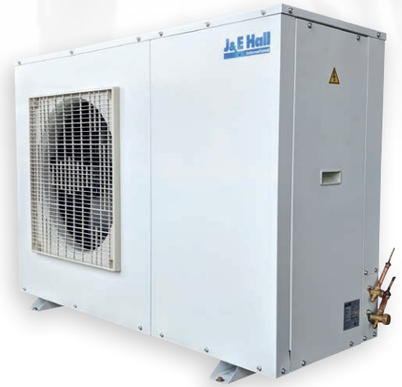
Weights & Dimensions

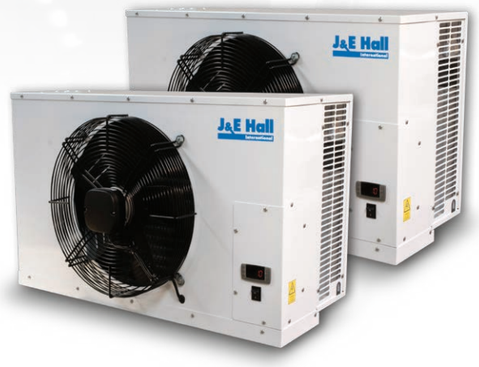
System	Indoor Model	Width (mm) *	Depth (mm)**	Height (mm)	Weight (kg)	Outdoor Model	Width (mm)	Depth (mm)	Height (mm)	Weight (kg)
Cellar Plus 70-S1/S3	JCC2-80EV	1437	505	557	63	BSCU-30-M1/M3	1108	478	649	77
Cellar Plus 80-S1/S3	JCC2-80EV	1437	505	557	63	BSCU-35-M1/M3	1334	530	864	97

* Indoor unit width excludes pipe services - add approximately 70mm

** Indoor unit depth includes fan motor with air straightener

Twin Cellar+ Systems





To expand the applications of the current cellar cooler range, three twin indoor unit systems using new outdoor units are also 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 flexibilty
- Ease of installation
- Air straighteners included for increased air throw
- Expansion valve fitted
- Room temperature down to 4°C
- Operates with either R448A or R449A refrigerant
- 3 years manufacturer's warranty for total peace of mind

Quick Selection Guide

System	Indoor/ Outdoor Unit	Quick Selection @ 10°C		Cooling Capacities in kW @ 32°C Ambient - R448A/R449A					
		Above ground (max. room m³)	Below ground (max. room m³)	4°C	6°C	8°C	10°C	12°C	12.7°C
Cellar Plus 70-T1/T3	(2x) JCC2-40EV / BSCU-30-M1/M3	100	155	6.3	6.6	6.9	7.2	7.5	7.6
Cellar Plus 80-T1/T3	(2x) JCC2-50EV / BSCU-35-M1/M3	120	180	6.7	7.1	7.5	7.9	8.4	8.5
Cellar Plus 90-T1/T3	(2x) JCC2-60EV / BSCU-40-M1/M3	145	210	8.0	8.4	8.8	9.2	9.6	9.7

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/m³ entering room at max temp of 21°C

General Specifications

System	Part Number	Evaporator Model (2x)	Power Supply V/Ph/Hz	FLC (2x) Amps	SFR Amps	Air Flow M³/h	Air Throw M	Noise Level @10m(2x) dB(A)	Condensing Unit Model	Power Supply V/Ph/Hz	MCC Amps	LRC Amps	SFR Amps	Air Flow M³/h	Noise Level @10m dB(A)	Max Pipe Run
Cellar Plus 70-T1	N04110047	JCC2-40EV	230/1/50	1.0	6	2270	10	48	BSCU-30-M1	230/1/50	21.5	82.0	25	2765	34	50
Cellar Plus 70-T3	N04110048	JCC2-40EV	230/1/50	1.0	6	2270	10	48	BSCU-30-M3	400/3/50	10.3	40.0	16	2765	34	50
Cellar Plus 80-T1	N04110049	JCC2-50EV	230/1/50	1.0	6	2680	10	47	BSCU-35-M1	230/1/50	25.0	97.0	32	3350	36	50
Cellar Plus 80-T3	N04110050	JCC2-50EV	230/1/50	1.0	6	2680	10	47	BSCU-35-M3	400/3/50	9.0	46.0	20	3350	36	50
Cellar Plus 90-T1	N04110051	JCC2-60EV	230/1/50	1.0	6	2560	10	47	BSCU-40-M1	230/1/50	28.0	114.0	40	4250	41	50
Cellar Plus 90-T3	N04110052	JCC2-60EV	230/1/50	1.0	6	2560	10	47	BSCU-40-M3	400/3/50	11.0	50.0	20	4250	41	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 piping
SFR - Suggested Fuse Rating (Motor Rated for Outdoor Unit)

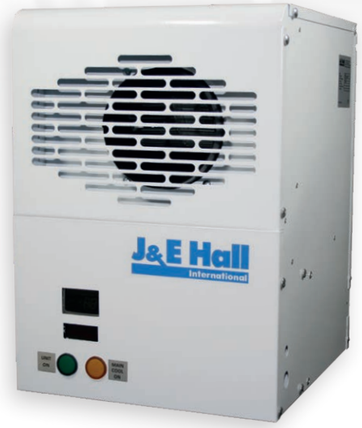
Weights & Dimensions

System	Indoor Model	Width (mm) *	Depth (mm)**	Height (mm)	Weight (kg)	Outdoor Model	Width (mm)	Depth (mm)	Height (mm)	Weight (kg)
Cellar Plus 70-T1/T3	JCC2-40EV	865	505	489	33	BSCU-30-M1/M3	1108	478	649	77
Cellar Plus 80-T1/T3	JCC2-50EV	904	505	546	36	BSCU-35-M1/M3	1334	530	864	97
Cellar Plus 90-T1/T3	JCC2-60EV	904	504	546	38	BSCU-40-M1/M3	1351	530	864	107

* Indoor unit width excludes pipe services - add approximately 70mm

** Indoor unit depth includes fan motor with air straightener

Ambient Beer Cooler



OFFERS UP TO 51% SAVINGS OVER 12 MONTHS

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. J & E Hall's ambient beer cooler has the answer.

When the outdoor temperature falls below 8°C, the J & E Hall ambient beer cooler uses the outdoor air to cool the cellar at a fraction of the cost.

Features & Benefits

- Energy efficient
- Can be integrated with any make of cellar cooler systems
- Can substantially reduce yearly cellar cooler running costs typically by 50%+
- Easy to Install

Other Commercial products available

We also supply a comprehensive range of **commercial condensing units**

FUSION & FUSION SCROLL

A full range of reciprocating or scroll condensing units in various casing sizes with multi refrigerant options.

MT: 0.5kW - 49.4kW
LT: 0.5kW - 14.6kW

DIGITAL SINGLE & TWIN SCROLL

A comprehensive range of single and twin digital scroll condensing units from 4HP to 16HP.

4.2kW - 46.1kW

INVERTER

With an increased demand for higher efficiency systems at part load, we introduce the first of our Fusion Scroll Inverter models.

1.5kW - 25.7kW

A2L

Using the latest low GWP refrigerants these new units are designed specifically for A2L refrigerants (BS EN 378).

0.6kW - 9.3kW

CELLAR
COOLERS

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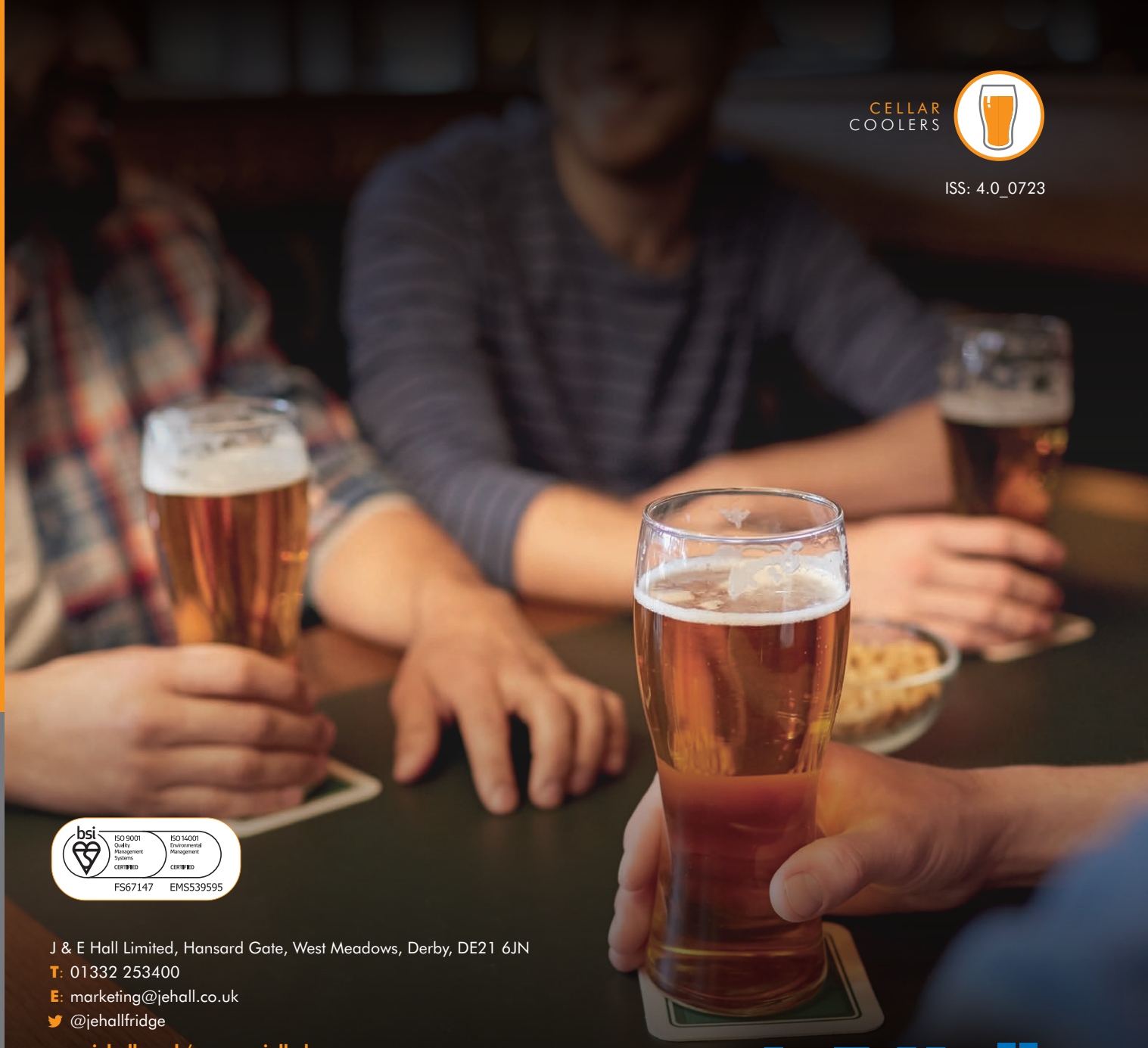

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