

ALL CHILLED
CELLAR COOLING INSTALLATIONS

Cellar Cooler Product Range

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

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.

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

In addition to refrigeration systems we have the Ambient Beer Cooler which utilises outdoor ambient air to cool the cellar and save energy costs.

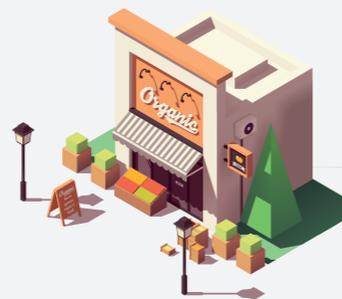
Markets Served:



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 pushes more air forwards and increases the athrow 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
- ▶ Operates down to 4°C* and can be used for many types of product cooling
- ▶ Condensing unit comes pre-charged (7.6m equivalent)
- ▶ 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	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	12.7°C	16°C
JCC 25	25	45	2.36	2.60	2.74	2.86	3.06
JCC 40	48	70	3.70	3.96	4.09	4.27	4.53
JCC 50	56	90	4.47	4.59	4.65	4.74	4.84
JCC 60	70	120	5.34	5.61	5.72	5.96	6.17

General Specifications

System	Model	Nominal Cooling Capacity kW	Unit Airflow M³/h	Noise Level dB(A)	System Pipe Sizes		Maximum Pipe Run		Power Supply (V/Ph/Hz)	FLA (Amps)	LRA (Amps)	Power To... (Amps)	Inter Connecting Cable	Fuse Rating (Amps)
					Liquid	Suction	Length	Rise						
JCC 25	JCC2 25E	2.86	2560	48	1/4"	1/2"	25m	5m	230/1/50	5.3	N/A	Indoor	3 Core	16
	J5LC15FV1		1573	27										
JCC 40	JCC2 40E	4.27	2270	48	1/4"	*1/2"	25m	8m	230/1/50	7.1	N/A	Indoor	3 Core	20
	J5LC20CV1		2225	32										
JCC 50	JCC2 50E	4.74	2680	47	1/4"	5/8"	25m	8m	230/1/50	8.2	N/A	Indoor	3 Core	25
	J5LC25CV1		2480	32										
JCC 60	JCC2 60E	5.96	2560	47	3/8"	*5/8"	25m	8m	230/1/50	13.3	N/A	Indoor	3 Core	32
	J5LC28CV1		2984	33										

*Reducer required on indoor unit. Liquid line is the expansion line and as such requires insulating

Weights & Dimensions

Model Indoor	Width (mm)	Depth (mm)	Height (mm)	Weight (Kg)
JCC2 25E	865	372	489	31
JCC2 40E	865	372	489	33
JCC2 50E	904	370	546	36
JCC2 60E	904	370	546	38

Model Outdoor	Width (mm)	Depth (mm)	Height (mm)	Weight (Kg)
J5LC15FV1	658	273	550	26
J5LC20CV1	855	328	651	47
J5LC25CV1	855	328	753	50
J5LC28CV1	855	328	753	57

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
- ▶ 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
JCC 25E	20m³
JCC 40E	40m³
JCC 50E	50m³
JCC 60E	70m³

Criteria

• Noise levels are free field at 10m	JCC 25	Pre-charged with 0.57kg R410A Additional charge 18g per metre
• Nominal cooling capacities quoted @ 12.7°Cdb / 10°Cwb internal, 32°C ambient	JCC 40	Pre-charged with 1.45kg R410A Additional charge 19g per metre
• Condensing units are pre-charged for up to 7.6m pipe run	JCC 50	Pre-charged with 1.54kg R410A Additional charge 21g per metre
• The maximum pipe run must include the rise - the rise is not additional to the length	JCC 60	Pre-charged with 1.80kg R410A Additional charge 28g per metre



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 kit included
- ▶ 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

Cellar+ Systems



Quick Selection Guide

System	Indoor/ Outdoor Unit	Quick Selection @ 10°C		Cooling Capacities kW @ 32°C Ambient					
		Above ground (max. room m ³)	Below ground (max. room m ³)	4°C	6°C	8°C	10°C	12°C	12.7°C
Cellar Plus 70-S1/S3	JCC2-80E / BSCU-30-M1/M3	100	155	5.5	6.0	6.4	6.9	7.4	7.5
Cellar Plus 80-S1/S3	JCC2-80E / 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 M ³ /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 M ³ /h	Noise Level @10m dB(A)	Max Pipe Run
Cellar Plus 70-S1	N04110043	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	N04110044	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	N04110045	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	N04110046	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 (Room 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	JCC2-80E	1437	505	557	63	BSCU-30-M1/M3	1108	478	649	77
Cellar Plus 80-S1/S3	JCC2-80E	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 flexibility
- ▶ Ease of installation
- ▶ Air straighteners included for increased air throw
- ▶ Expansion valve kit included
- ▶ Room temperature down to 4°C
- ▶ Operates with either R448A or R449A refrigerant
- ▶ 3 years manufacturer's warranty for total peace of mind

Twin Cellar+ Systems



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) JCC2-40E / BSCU-30-M1/M3	100	155	6.3	6.6	6.9	7.2	7.5	7.6
Cellar Plus 80-T1/T3	(2x) JCC2-50E / BSCU-35-M1/M3	120	180	6.7	7.1	7.5	7.9	8.4	8.5
Cellar Plus 90-T1/T3	(2x) JCC2-60E / 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	JCC2-40E	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	JCC2-40E	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	JCC2-50E	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	JCC2-50E	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	JCC2-60E	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	JCC2-60E	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	JCC2-40E	865	505	489	33	BSCU-30-M1/M3	1108	478	649	77
Cellar Plus 80-T1/T3	JCC2-50E	904	505	546	36	BSCU-35-M1/M3	1334	530	864	97
Cellar Plus 90-T1/T3	JCC2-60E	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 - 8.5kW

