



Smith Brothers
Stores Limited

CELLAR COOLING

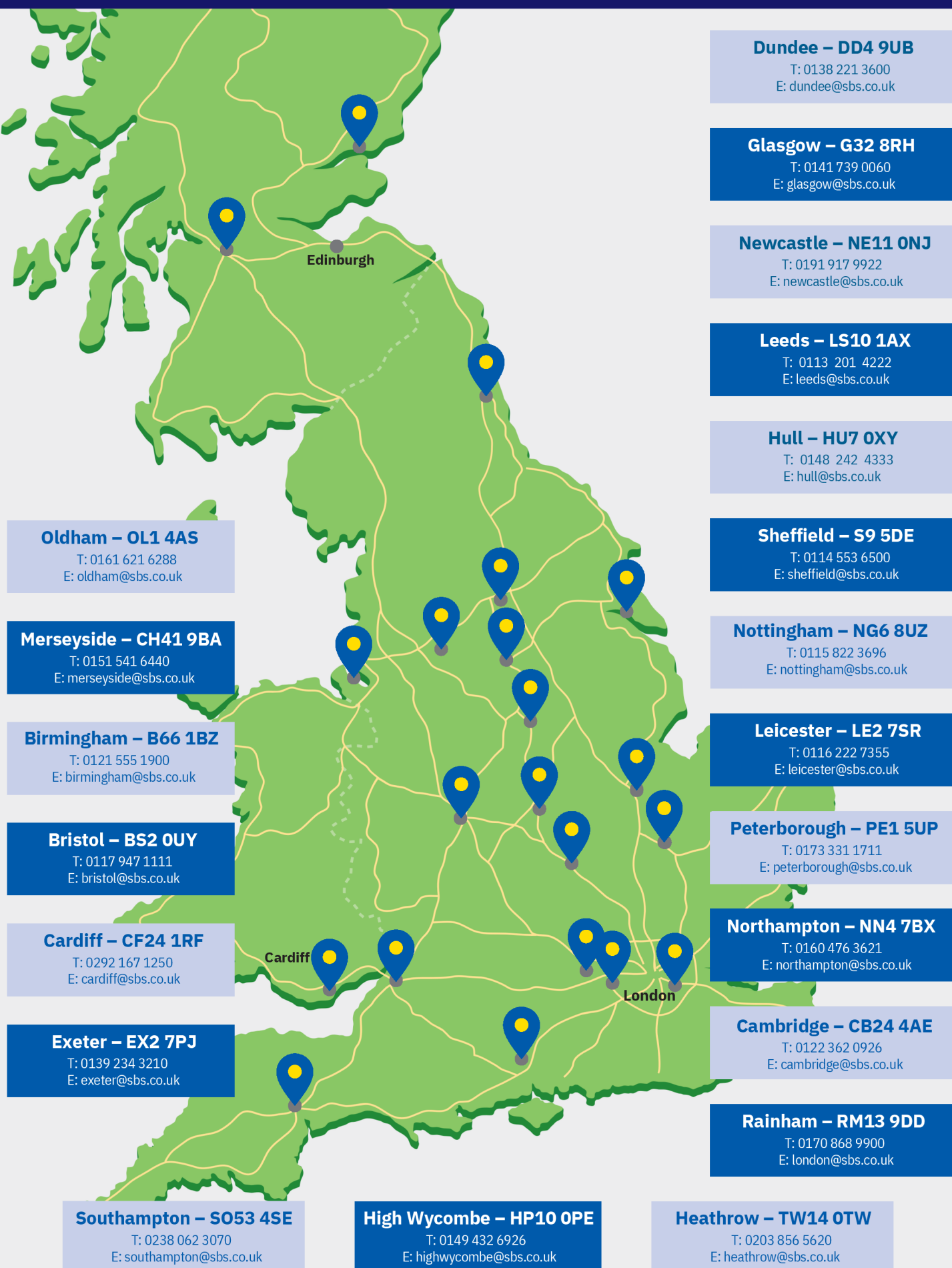
Product Range

Exclusive distributors for



ROCHELLE NORTHERN
LIMITED

NATIONAL DISTRIBUTION NETWORK



General Enquiries: rac@sbs.co.uk

PRODUCT RANGE

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

- **Cooling Range:** 2.57 - 7.26 kW at room temperature of 12.7°C
- **Refrigerants:** R448A or R449A
- **Temperature:** Range from 4°C to 18°C

Our cellar cooling systems offer high performance across a wide range of applications including Cellars, Flower Stores, Fresh Fruit and Veg and potential for many more.

Key Features

- All systems operate using R448A or R449A refrigerants
- Hermetic and scroll compressors equipped in acoustically padded outdoor units
- All systems have liquid receiver, auto HP & LP switches, crankcase heaters, expansion valves and much more!
- Acoustically encased compressor compartment to reduce noise
- Long life white powder coat finish
- The indoor unit has hinged side panels for easy access

APPLICATIONS INCLUDE

Pubs and Restaurants



Florists



Fruit & Vegetables



TECHNICAL INFORMATION

Performance Data (Gas R448A / R449A)

SBS Code	Cooling Capacity (kW) Ambient 32°C								Above Ground	Below Ground
	Room Temperature (°C)									
	4°C	6°C	8°C	10°C	12.7°C	14°C	16°C	18°C	M³	
CELLCOND22	1.79	1.95	2.12	2.30	2.57	2.70	2.92	3.10	34	42
CELLCOND31	2.55	2.79	3.04	3.30	3.69	3.88	4.20	4.50	46	56
CELLCOND40	3.34	3.65	3.98	4.33	4.83	5.08	5.50	5.70	60	94
CELLCOND48	3.99	4.33	4.70	5.09	5.65	5.95	6.41	6.60	68	107
CELLCOND62	5.18	5.52	6.08	6.57	7.28	7.65	8.23	8.50	122	158

Cooling capacity based on a standard pipe length of 7.6m.
Room temperature of 4°C only applies for pipe lengths of no more than 15m.

Technical Data

SBS Code	Nominal Cooling (kW)	Outdoor Indoor Unit Model	Airflow M³/hr Indoor	Airflow M³/hr Outdoor	Pipework (inch)		Max Pipe Run (m)	
					Liquid	Suction	Length	Rise
CELLCOND22	2.57	CELLCOND22	1525	1390	3/8"	5/8"	25	5
		CELLEVAP22						
CELLCOND31	3.69	CELLCOND31	1400	1440	3/8"	5/8"	25	5
		CELLEVAP31						
CELLCOND40	4.83	CELLCOND40	2400	1790	3/8"	7/8"	25	8
		CELLEVAP40						
CELLCOND48	5.65	CELLCOND48	3680	2610	1/2"	3/4"	25	8
		CELLEVAP48						
CELLCOND62	7.28	CELLCOND62	2800	3470	1/2"	3/4"	25	8
		CELLEVAP62						

Fan speed controller is recommended for any pipe length over 15m, and is available via the SBS branch network.

Part number: ACFP2094

TECHNICAL INFORMATION

Electrical Data

SBS Code	Power Supply	Power Input	FLA Amps	Noise Levels dB(A)	Interconnecting Cable	Fuse Rating (A)
CELLCOND22	230/1/50	1.14	5.38	30	3 core x 2.5mm	10
					3 core x 1mm	
CELLCOND31	230/1/50	1.49	7.32	30	3 core x 2.5mm	16
					3 core x 1mm	
CELLCOND40	230/1/50	2.04	8.97	31	3 core x 2.5mm	16
					3 core x 1mm	
CELLCOND48	230/1/50	1.75	8.12	31	3 core x 4mm	20
					3 core x 1mm	
CELLCOND62	230/1/50	2.38	12.10	33	3 core x 4mm	25
					3 core x 1mm	

The interconnecting cable between indoor and outdoor units must be 3 cores for the power supply and 2 cores for the control circuit connected to the high-pressure switch. Noise levels recorded at 10m.

Dimensions

SBS Code	Width (mm)	Depth (mm)	Height (mm)	Weight (kg)
CELLCOND22	875	485	610	75
CELLCOND31	925	485	710	85
CELLCOND40	925	485	710	85
CELLCOND48	1175	470	910	90
CELLCOND62	1175	470	910	95
CELLEVAP22	770	395	465	25
CELLEVAP31	870	395	560	30
CELLEVAP40	1370	395	560	35
CELLEVAP48	920	395	655	42
CELLEVAP62	920	395	655	45

Fan assembly depth is included within the above measurements.

Specifications

Selections should be made based on the following criteria:

- Rooms to be kept between +4°C to +18°C
- Room walls, ceilings and floors are recommended to be fully insulated with a thickness of 80mm
- Product load 65kg/M³, room holding temperature should not exceed 5k
- Designed operating temperature is 32°C ambient
- Normal air changes
- Refrigerant R448A / R449A

For different conditions, please contact a Smith Brothers representative.

Recommended System Charge

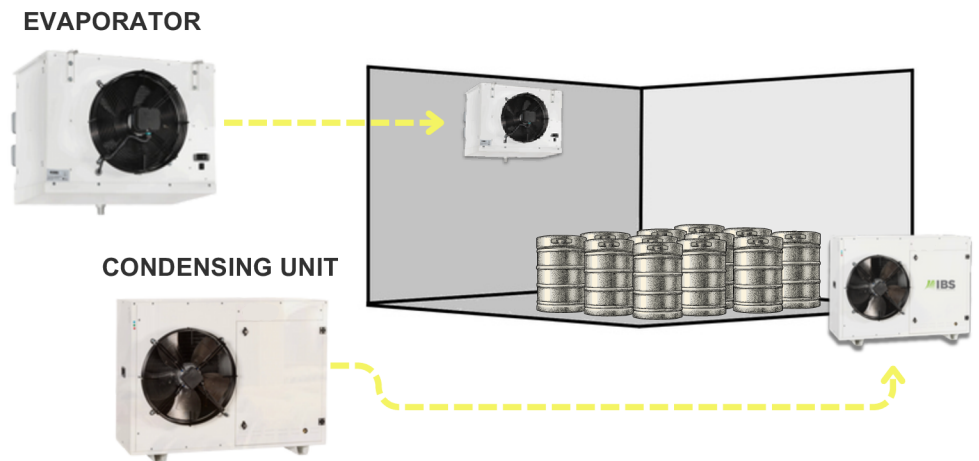
Outdoor Model	Pre-Charge (kg)
CELLCOND22	1.2
CELLCOND31	1.2
CELLCOND40	1.7
CELLCOND48	1.8
CELLCOND62	2.1

The system charge data is designed for a maximum pipe run distance of 25m.

TECHNICAL DIAGRAM

The cellar cooling range is an advanced solution designed for cooling systems, offering high efficiency and durability. Produced with modern engineering techniques, the cellar cooler units are developed to provide maximum performance in commercial applications.

- Factory tested
- Ready to install
- High performance at partial loads
- Ease of installation
- Easy service and maintenance
- All sizes are single phase
- Market-leading compressor brands



Protect your perishables with modern cellar cooling

Smith Brothers' low noise cellar cooling units allow you to cool multiple types of products by reducing the temperature of a room by up to 4°C and are electronically controlled for simple, accurate temperature adjustment.

All our cellar cooling units have the capacity to run up to 25 metres of pipe for total flexibility and use both R448A or R449A refrigerants.

The units are easy to install, keeping costs and installation time to a minimum.

Features & Benefits



Installer

- Quick & Easy Installation ✓
- Reduced Installation Complexity ✓
- Easy Access for Maintenance & Servicing ✓
- Built-in Features for Reduced Call Outs ✓

End User

- Reliability ✓
- Energy Performance ✓
- Low Noise Application from 30 dB(A) ✓
- Great Performance in Low & High Ambients ✓



OTHER PRODUCTS

**ADDITIONAL SYSTEM UPGRADES AVAILABLE WHERE REQUIRED.
PLEASE ASK YOUR LOCAL BRANCH FOR MORE INFORMATION.**

SCROLL & HERMETIC



A complete range of hermetic or scroll units in various frame sizes with multiple refrigerant options.

**MT: 2.5kW - 14.8kW
LT: 0.5kW - 14.6kW**

SEMI HERMETIC



A complete range of hermetic units in various frame sizes with multiple refrigerant options.

**MT: 16.4kW - 49kW
LT: 14.6kW - 49kW**

DIGITAL SCROLL



Scroll compressors ranging from 4hp to 16hp.

4.2kW - 16.8kW

INVERTER SCROLL



With the increasing demand for higher efficiency systems at part load, the Scroll Inverter model is an ideal solution.

2.5kW - 14.8kW

A2L CONDENSING UNIT



These units use low GWP refrigerants, specifically designed for A2L refrigerants.

1.7kW - 11.9kW



- **Range stocked and available for UK delivery**
- **Over 125 years experience within the HVAC industry**
- **Wide range of ACR ancillaries available from leading brands**

Our ACR Brand Partners



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