

FX BLAST CHILLER



Service Manual



ISO 14001



ISO 9001



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Environmental Management Policy for Service Manuals and Duets.

Product Support and Installation Contractors

Foster Refrigerator recognises that its activities, products and services can have an adverse impact upon the environment.

The organisation is committed to implementing systems and controls to manage, reduce and eliminate its adverse environmental impacts wherever possible, and has formulated an Environmental Policy outlining our core aims. A copy of the Environmental Policy is available to all contractors and suppliers upon request.

The organisation is committed to working with suppliers and contractors where their activities have the potential to impact upon the environment. To achieve the aims stated in the Environmental Policy we require that all suppliers and contractors operate in compliance with the law and are committed to best practice in environmental management.

Product Support and Installation contractors are required to:

1. Ensure that wherever possible waste is removed from the client's site, where arrangements are in place all waste should be returned to Foster Refrigerator's premises. In certain circumstances waste may be disposed of on the clients site; if permission is given, if the client has arrangements in place for the type of waste.
2. If arranging for the disposal of your waste, handle, store and dispose of it in such a way as to prevent its escape into the environment, harm to human health, and to ensure the compliance with the environmental law. Guidance is available from the Environment Agency on how to comply with the waste management 'duty of care'.
3. The following waste must be stored of separately from other wastes, as they are hazardous to the environment: refrigerants, polyurethane foam, oils.
4. When arranging for disposal of waste, ensure a waste transfer note or consignment note is completed as appropriate. Ensure that all waste is correctly described on the waste note and include the appropriate six-digit code from the European Waste Catalogue. Your waste contractor or Foster can provide further information if necessary.
5. Ensure that all waste is removed by a registered waste carrier, a carrier in possession of a waste management licence, or a carrier holding an appropriate exemption. Ensure the person receiving the waste at its ultimate destination is in receipt of a waste management licence or valid exemption.
6. Handle and store refrigerants in such a way as to prevent their emission to atmosphere, and ensure they are disposed of safely and in accordance with environmental law.
7. Make arrangements to ensure all staff who handle refrigerants do so at a level of competence consistent with the City Guilds 2078 Handling Refrigerants qualification or equivalent qualification.
8. Ensure all liquid substances are securely stored to prevent leaks and spill, and are **not** disposed of to storm drains, foul drain, surface water to soil.

DISPOSAL REQUIREMENTS

If not disposed of properly all refrigerators have components that can be harmful to the environment. All old refrigerators must be disposed of by appropriately registered and licensed waste contractors, and in accordance with national laws and regulations.

Cabinet Description

Controls located in the unit cover.

All of the cabinet range incorporates bottom mounted refrigeration systems with the evaporator located on the back wall.

The refrigerant used is R404a.

Door operated fan switches stop the fans when the door is opened.

FXBC10, FXBC 20, FXBC30 all 230/1/50Hz 13amp

FXBC40 230/1/50Hz 16amp.

The internal base is flat with drain connection in the centre to an external drain via a flexible hose. (Vaporisation tray with electric heater available as an option)

FXBC 10: Blast Chiller, 10kg capacity with three GN1/1 shelves.

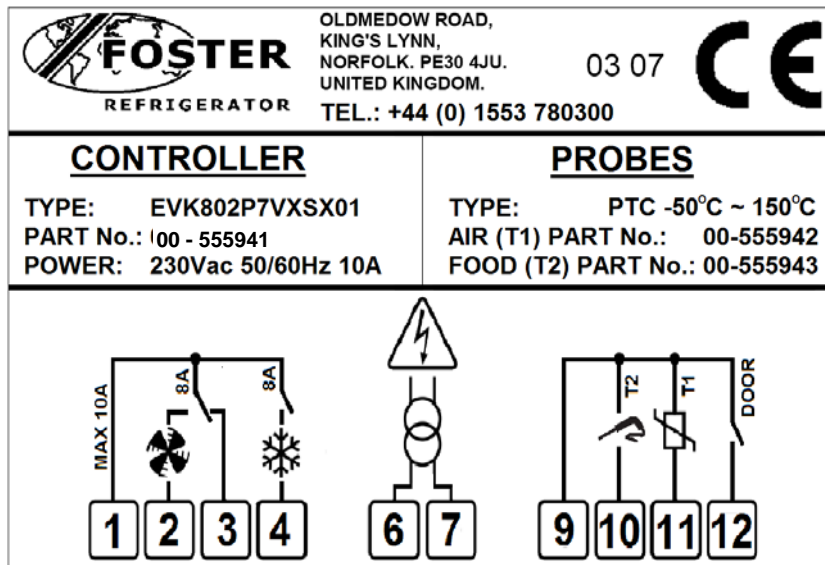
FXBC 20: Blast Chiller, 20kg capacity with five GN1/1 shelves.

FXBC 30: Blast Chiller, 30kg capacity with eight GN1/1 shelves.

FXBC 40: Blast Chiller, 40kg capacity with twelve GN1/1 shelves.

Controller Description

The controller is mains voltage 230-50/60-1



The device has the following operational states:

- 'ON' the controller is switched on and an operating cycle is running.
- 'stand-by' the controller is switched on but no operating cycle is running.
- 'off' the controller is switched off

If there is a power failure during a timed blast chilling operation, when the power is restored, chilling will continue from the point at which the interruption occurred.


If there is a power failure during a set temperature blast chilling operation, when power is restored, chilling will start from the beginning.



If there is a power failure during the storage operation, when power is restored the storage operation will be continue.



Controller operation






Prior to starting a chill operation ensure the controller is in the 'stand-by' mode.


Timed chill operation


To place the controller in 'stand-by' press  for 2 seconds, whilst in stand-by the cabinet internal air temperature will be displayed intermittently.



Press  'PoS' will be displayed and the Timed Chilling LED  will be flashing.

Press  to display the chilling time, set to 90 minutes as standard, if no change to the time is required press  to start the programme.

If changes to the chill time are required press  'PoS' will be displayed and the Timed Chilling LED  will be flashing, press  to display the chilling time followed by  to decrease the time or  to increase.

During chilling the display will show the time remaining with the Timed Chilling LED  on.

Once the chilling time is completed the controller switches to the storage mode with the display showing 'End' press any button to mute the alarm, press  to cancel the message.


Whilst the cabinet is in the storage mode the internal cabinet temperature will be displayed and the Timed Chilling LED  and Storage LED  will be illuminated.

To stop the programme press  for 2 seconds

NOTE:



If changes are made to the time settings on completion of the programme the time will revert back to the default setting of 90 minutes.






Temperature chill operation


Place the controller in 'stand-by' pressing  for 2 seconds.



Ensure that the food probe is inserted into the product prior to commencing the temperature chill programme.

Press  'PoS' will be displayed and the Timed Chilling LED  may be flashing, if it is Press  again to display Set-Temperature Chilling LED  flashing.

Press  the display will show the product end temperature, +3°C as standard, if no change to the temperature is required press  to start the programme.

If changes to the chill termination temperature are required press  'PoS' will be displayed and the Set-Temperature Chilling LED  will be flashing, press  to display the chilling temperature followed by  to decrease the temperature or  to increase.

Once the product temperature has been achieved the controller switches to storage mode with the display showing 'End' press any button to mute the alarm, press  to cancel the message.

Whilst the cabinet is in the storage mode the internal cabinet temperature will be displayed and the Set-Temperature Chilling LED  and Storage LED  will be illuminated.

To stop the programme press  for 2 seconds

NOTE:

If changes are made to the temperature settings on completion of the programme the temperature will revert back to the default setting of +3°C.

Defrost

Defrost will be initiated automatically in the hold mode at pre-set intervals.

To initiate a manual defrost during the hold mode press  for 5 seconds, defrost will start with **— d—** being displayed.

Alarm and Warnings

— d—	Defrost in operation
AL	Low Temperature Alarm
AH	High Temperature Alarm
PR1	Air Probe fault
PR2	Food Probe Fault


Parameter Setting and Adjustment



Setting the configuration parameters

The parameters are arranged on two levels

Access to the First Level

To access the parameters the controller must be in the stand-by mode.

To place the controller in 'stand-by' press  for 2 seconds, whilst in stand-by the cabinet internal air temperature will be displayed intermittently.

Press  and  for 4 seconds the display will show 'PA'.

Press  'r0' will be displayed.

Press  to display the value followed by  to decrease the value or  to increase the value.


Press  to return to the followed by  to  move to the next parameter.



On completion of the changes press  plus  to exit or wait 60 seconds

First Level Configuration Parameters						
Mnem.	Definition	Min.	Max	Default	Dim.	FXBC
r0	Parameter r7, r8, r9 and Ra hysteresis	0.1	15.0	2.0	°K	2.0
r1	Timed positive blast chilling duration	1	600	90	min.	90
r2	Timed negative blast chilling duration	1	600	240	min.	240
r3	Positive blast chill end point temperature (food probe)	-99.0	99.0	3.0	°C	3.0
r4	Negative blast chill end point temperature (food probe)	-99.0	99.0	-18.0	°C	-18.0
r5	Set temperature positive blast chilling duration	1	600	90	min.	90
r6	Set temperature negative blast chilling duration	1	600	240	min.	240
r7	Positive blast chilling setpoint (air temp.)	-99.0	99.0	0.0	°C	0.0
r8	Negative blast chilling setpoint (air temp.)	-99.0	99.0	-40.0	°C	-25.0
r9	Post positive blast chilling storage setpoint	-99.0	99.0	2.0	°C	2.0
rA	Post negative blast chilling storage setpoint	-99.0	99.0	-20.0	°C	-20.0

Access to the second level



To access the parameters the controller must be in the stand-by mode.

To place the controller in 'stand-by' press  for 2 seconds, whilst in stand-by the cabinet internal air temperature will be displayed intermittently.



Press  and  for 4 seconds the display will show 'PA'.

Press  '0' will be displayed, press  to change the setting to '-19'

Press  'PA' will be displayed.

Press  and  for 4 seconds the display will show 'CA1' the first parameter in the second level.

Press  to display the value followed by  to decrease the value or  to increase the value.

Press  to return to the followed by  to move to the next parameter.

On completion of the changes press  plus  to exit or wait 60 seconds

Second Level Configuration Parameters						
Mnem.	Definition	Min.	Max	Default	Dim.	Default
CA1	Air probe offset	-25	25	0	°K	0
CA2	Food probe offset	-25	25	0	°K	0
P0	Probe type (0 = PTC, 1 = NTC)	0	1	0	flag	0
P1	Decimal point active (0 = No, 1 = Yes)	0	1	1	flag	0
P2	Temperature unit (0 = °C, 1 = °F)	0	1	0	flag	0
P3	Food probe activation (0 = No, 1 = Yes)	0	1	1	flag	1
r0	Differential of parameters r7, r8, r9 and rA	0.1	15.0	2.0	°K	2.0
r1	Timed positive blast chilling duration	1	600	90	min.	90
r2	Timed negative blast chilling duration	1	600	240	min.	240
r3	Positive blast chill end point temperature (food probe)	-99.0	99.0	3.0	°C	3.0
r4	Negative blast chill end point temperature (food probe)	-99.0	99.0	-18.0	°C	-18.0
r5	Set temperature positive blast chilling duration	1	600	90	min.	90
r6	Set temperature negative blast chilling duration	1	600	240	min.	240
r7	Positive blast chilling setpoint (air temp.)	-99.0	99.0	0.0	°C	0.0
r8	Negative blast chilling setpoint (air temp.)	-99.0	99.0	-40.0	°C	-25.0
r9	Post positive blast chilling storage setpoint	-99.0	99.0	2.0	°C	2.0
rA	Post negative blast chilling storage setpoint	-99.0	99.0	-20.0	°C	-20.0
rb	Negative blast chilling and storage enabling	0 (NO)	1 (YES)	1	flag	0
rc	Test for food probe insertion differential (0 = no test)	0.0	99.0	5	°K	5
rd	Duration of probe insertion test	1	99	60	sec.	60
C0	Compressor start delay	0	240	0	min.	0
C1	Compressor interval between starts	0	240	5	min.	5
C2	Minimum compressor shut down time	0	240	3	min.	3
C3	Minimum compressor run time	0	240	0	sec.	0
C4	Compressor shut down with air probe error in hold (if 'C11' = 0)	0	240	10	min.	10
C5	Compressor shut down with air probe error in positive chill cycle (if 'C11' = 0)	0	240	10	min.	10
C6	Compressor shut down with air probe error in negative chill cycle (if 'C11' = 0)	0	240	20	min.	20
C11	Food probe operation with air probe failure	0	1	0	flag	0

d0	Defrost interval (0 = defrost not active)	0	99	8	hrs.	8
d3	Defrost duration (0 = defrost not active)	0	99	30	min.	20
d7	Drip time duration	0	15	2	min.	2
A1	Minimum temp alarm	0.0	99.0	10	°C	5
A2	Minimum temp alarm type (depends on 'r9' & 'rA' [or 'r9-A1' and 'rA-A1'])	0 (NO Alarm)	1	1	flag	1
A4	Maximum temp alarm	0.0	99.0	10	°C	5
A5	Maximum temp alarm type (depends on 'r9' & 'rA' [or 'r9+A4' and 'rA+A4'])	0 (NO Alarm)	1	1	flag	1
A6	Storage temp alarm delay (from start)	0	240	15	min.	15
A7	Temperature alarm delay	0	240	15	min.	15
A8	Drip time end high temperature alarm delay	0	240	15	min.	15
A9	Maximum high temperature alarm delay (only if i0 = 0 or 1)	0	240	15	min.	15
AA	Blast chill cycle completion alarm duration	0	240	5	sec.	20
F0	Evaporator fan operation during chilling (0 = off; 1 = on; 2 = with compressor)	0	2	2	flag	1
F2	Evaporator fan operation during hold (0 = off; 1 = on; 2 = with compressor)	0	2	1	flag	1
F8	Evaporator fan start up delay following defrost	0	99	0	min.	2
i0	Digital input operation (0 = Output a; 1 = output b; 2 = comp. protection)	0	2	1	flag	0
i1	Digital input contact type (0 = NO; 1 = NC; 2 = no input)	0	2	2	flag	1
i2	Digital input alarm delay (only if i0 = 0 or 1) [-1 = no alarm sound]	-1	120	30	min.	30
i3	Digital input effect duration (only if i0 = 0 or 1) [-1 = until input disabled]	-1	120	15	min.	-1
i7	Compressor protection deactivation delay (only if 'i0' = 2)	0	120	0	min.	0
u0	Relay K2 operation (0 = defrosting; 1 = evaporator fan)	0	1	1	flag	1
LA	Device address	1	247	1	flag	1
Lb	Baud rate (0 = 2.4k; 1 = 4.8k; 2 = 9.6k; 3 = 19.2k)	0	3	2	flag	2
LP	Parity (0 = none; 1 = odd; 2 = even)	0	2	2	flag	2
E9	Not used	0	1	1	exp.	1

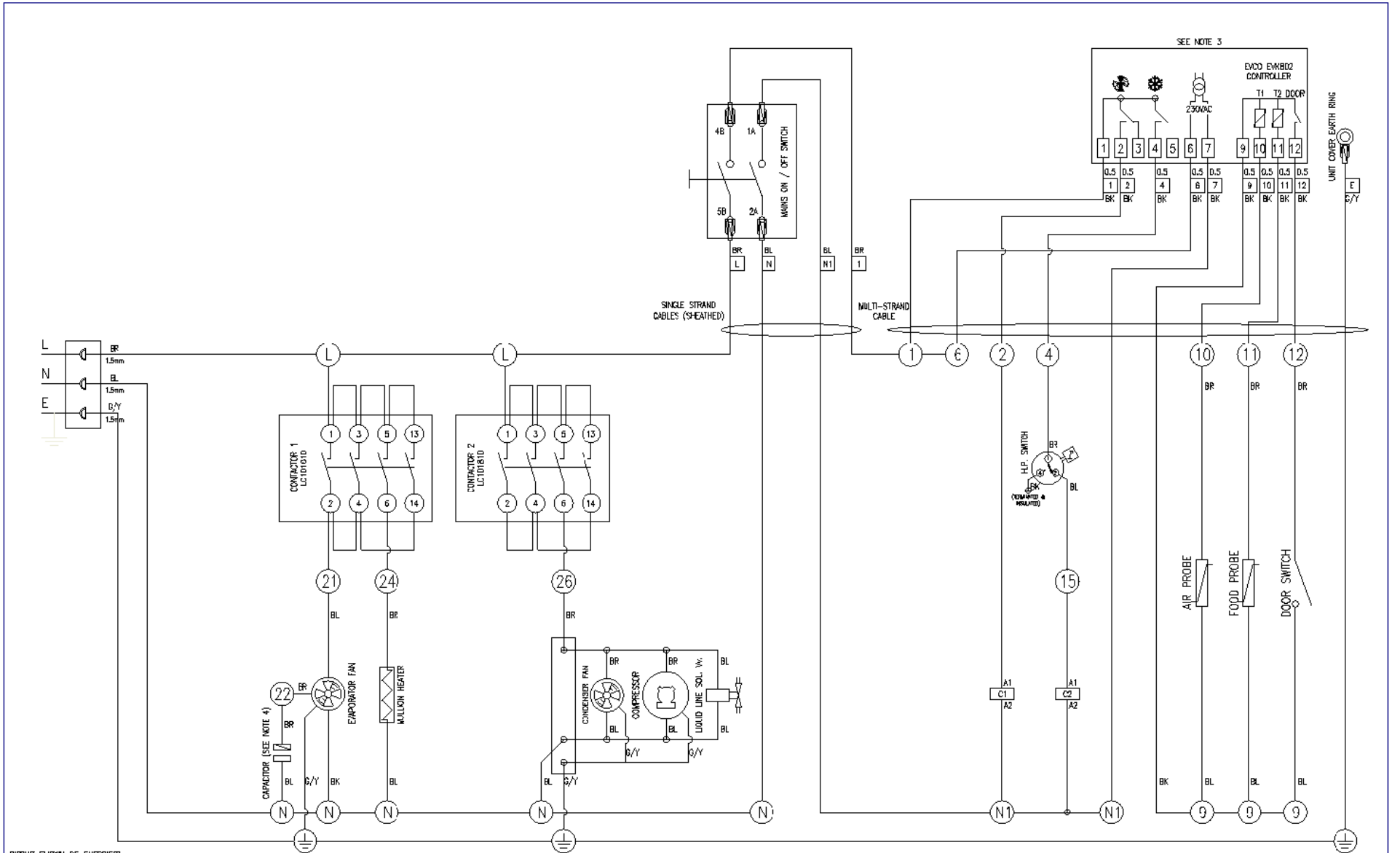
Technical Data

	FXBC10	FXBC 20	FXBC 30	FXBC 40
Nominal Chilling Capacity	10Kg	20Kg	30Kg	40Kg
Duty @ -15°C	826w	1182w		1909w
Fans	1	1	2	2
Defrost Load (amps)	N/A	N/A	N/A	N/A
Evaporating Temperature	-15°C	-15°C	-15°C	-15°C
Refrigerant Control	TEV	TEV	TEV	TEV
Refrigerant	R404a	R404a	R404a	R404a
Refrigerant Quantity	1300g	1500g	2700g	2700g
Electrical Supply	230/1/50 – 13amp	230/1/50 – 13amp	230/1/50 – 13amp	230/1/50 – 16amp
Power Consumption	Watts 738 Amps 3.44	Watts 1089 Amps 5.1		Watts 1994 Amps 9.05
Power absorbed W	730	1120		1990
Total Heat Rejection	1564w	2271w		3903w

Spare Parts List

ITEM	DESCRIPTION	PART NUMBER	MODEL
Controller	EVK802	00-555941	All Models
Air Probe	ECSND0112A	00-555942	All Models
Food Probe	ECSNDX0008	00-555943	All Models
Compressor	MX16TB	00-555674	FXBC10
Compressor	CAJ9513Z	00-554334	FXBC20
Compressor	MS26TB	00-555682	FXBC30
Compressor	MS34TB	00-555677	FXBC40
Condenser Fan Motor	Grid Mount 16W	15470027	FXBC10, FXBC20,
Condenser Fan Motor		00-555413	FXBC30, FXBC40
Condenser Coil	Coil 012504	00-878508-01	FXBC10
Condenser Coil	Coil 012654	00-554998	FXBC20
Condenser Coil	Coil 013521	00-555405	FXBC30, FXBC 40
Drier	DML 033S	00-555388	All Models
Solenoid Valve	EVR6	15451215	FXBC30, FXBC 40
Evaporator Coil	Coil 013584	00-555412	FXBC10
Evaporator Coil	Coil 013524	00-555410	FXBC20
Evaporator Coil	Coil 013475	00-555408	FXBC30, FXBC40
Evaporator Fan Motor		00-555374	FXBC10
Evaporator Fan Motor		00-555375	FXBC20, FXBC30, FXBC40
Expansion Valve Body	TES2-N 68Z3417/68	15450385	All Models
Orifice	00 68-20900/68-207	15451102	FXBC10, FXBC20,
Orifice	02 68-2092/68-2072	15451104	FXBC30, FXBC40
Expansion Valve Solder Adaptor		15450910	All Models
High Pressure Switch	(28 BAR)	00-555386	All Models
Low Pressure Switch	(4PSI)	00-555387	FXBC30, FXBC 40
Door Switch	Circular (Reed Type)	00-555829	All Models
Door Switch Magnet	Circular	00-555828	All Models
Door Gasket	Magnet 597.5x385	01-232996-01	FXBC10
Door Gasket	Magnet 597.5x551.5	01-232909-01	FXBC20
Door Gasket	Magnet 597.5x1151.5	01-232852-01	FXBC30
Door Gasket	Magnet 597.5x1151.5	01-232852-01	FXBC40

FXBC 10 Wiring Diagram



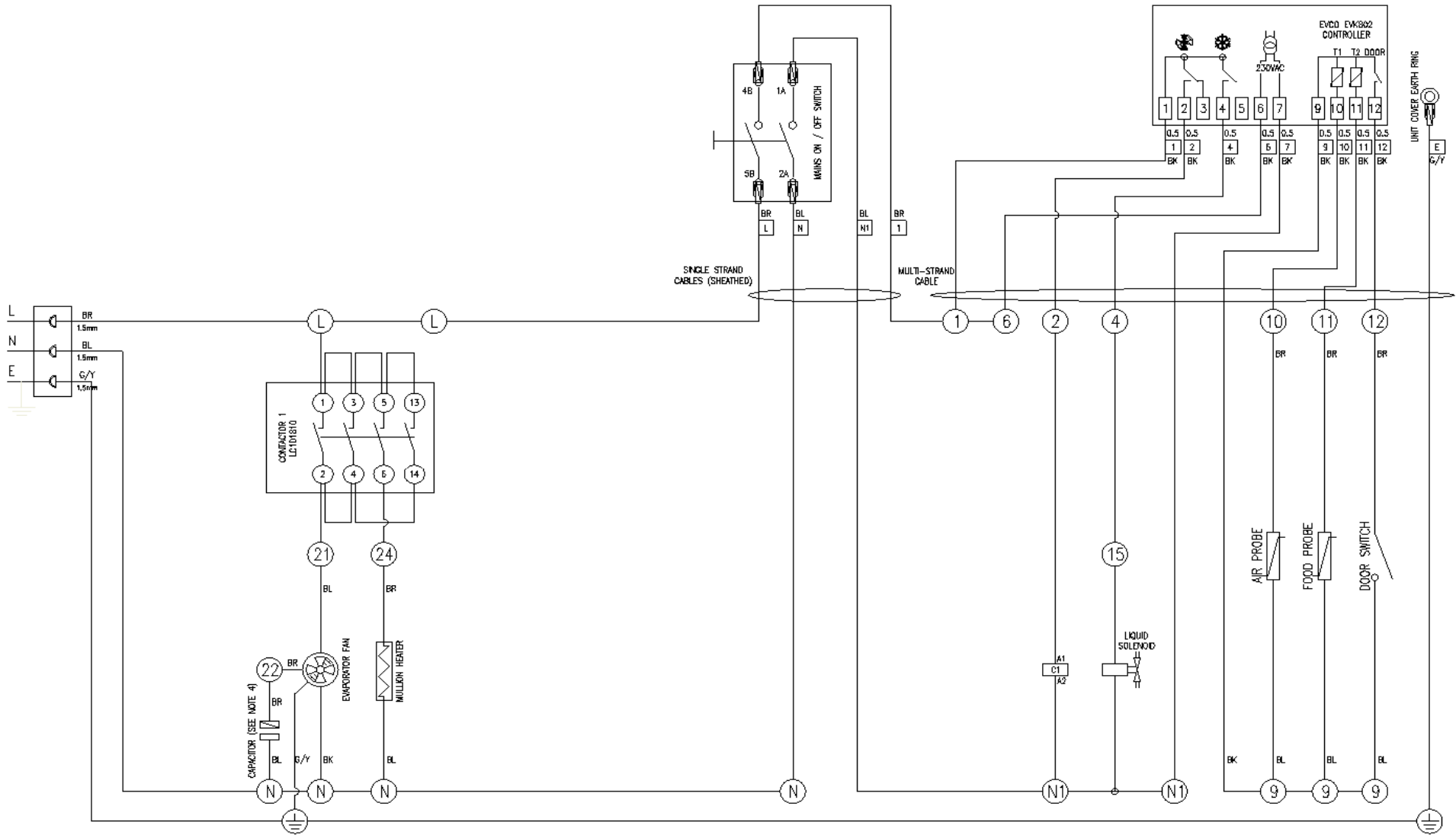
CIRCUIT 3-47MM DE-ENERGISED.
 FXBC 10 FITTED WITH 1.5µF EVAP. FAN CAPACITOR
 VAPORISER Klixon OC <65°C, OC>-72°C

ALL CABLES 1mm UNLESS STATED

BR - BROWN	BK - BLACK	PK - PINK
BL - BLUE	WH - WHITE	BG - BEIGE
G/Y - GREEN/YELLOW	GY - GREY	GR - GREEN
RD - RED	VT - VIOLET	CL - CLEAR
OR - ORANGE		

01.03	ndade	17/05/2007
REV	DESCRIPTION	BY DATE
	FOSTER EXTRA SERIES BLAST CHILLER	Drawing No. : 01-259324-00-01.03
	FXBC 10	Date : 08/05/2007 Drawn : rdade
		Approved :
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FXBC 10R Wiring Diagram



CIRCUIT SHOWN DE-ENERGISED.
 FXBC 10 FITTED WITH 1.5µF EVAP. FAN CAPACITOR
 VAPORISER KILN ON CC <65°C, OC >-72°C
 ALL CABLES 1mm UNLESS STATED

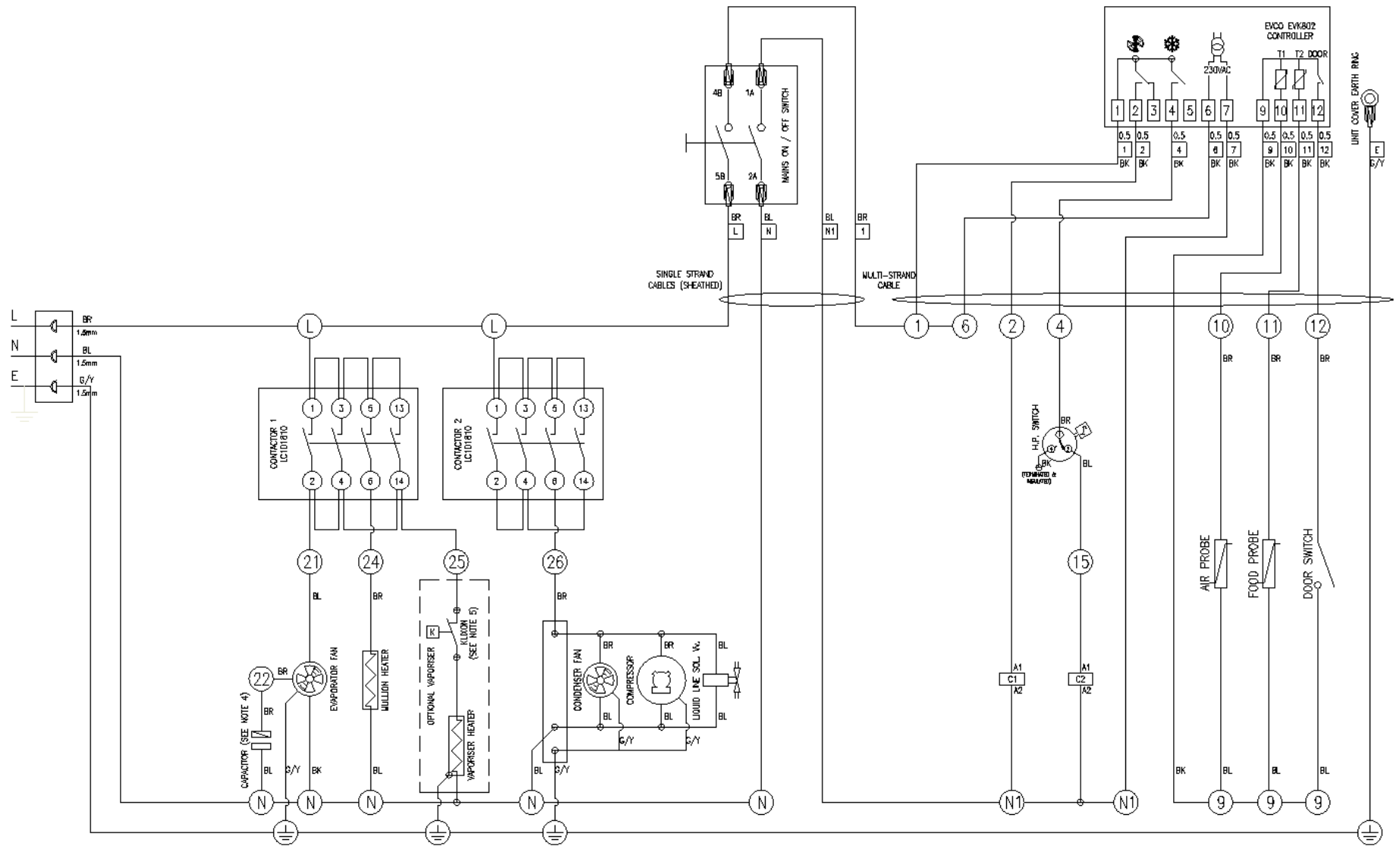
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BL - BLUE	WH - WHITE	BG - BEIGE
G/Y - GREEN/YELLOW	GR - GREEN	CL - CLEAR
RD - RED	VT - VIOLET	
OR - ORANGE		



01.02		ndade	08/05/2007
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		Approved :	
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FXBC 20R Wiring Diagram



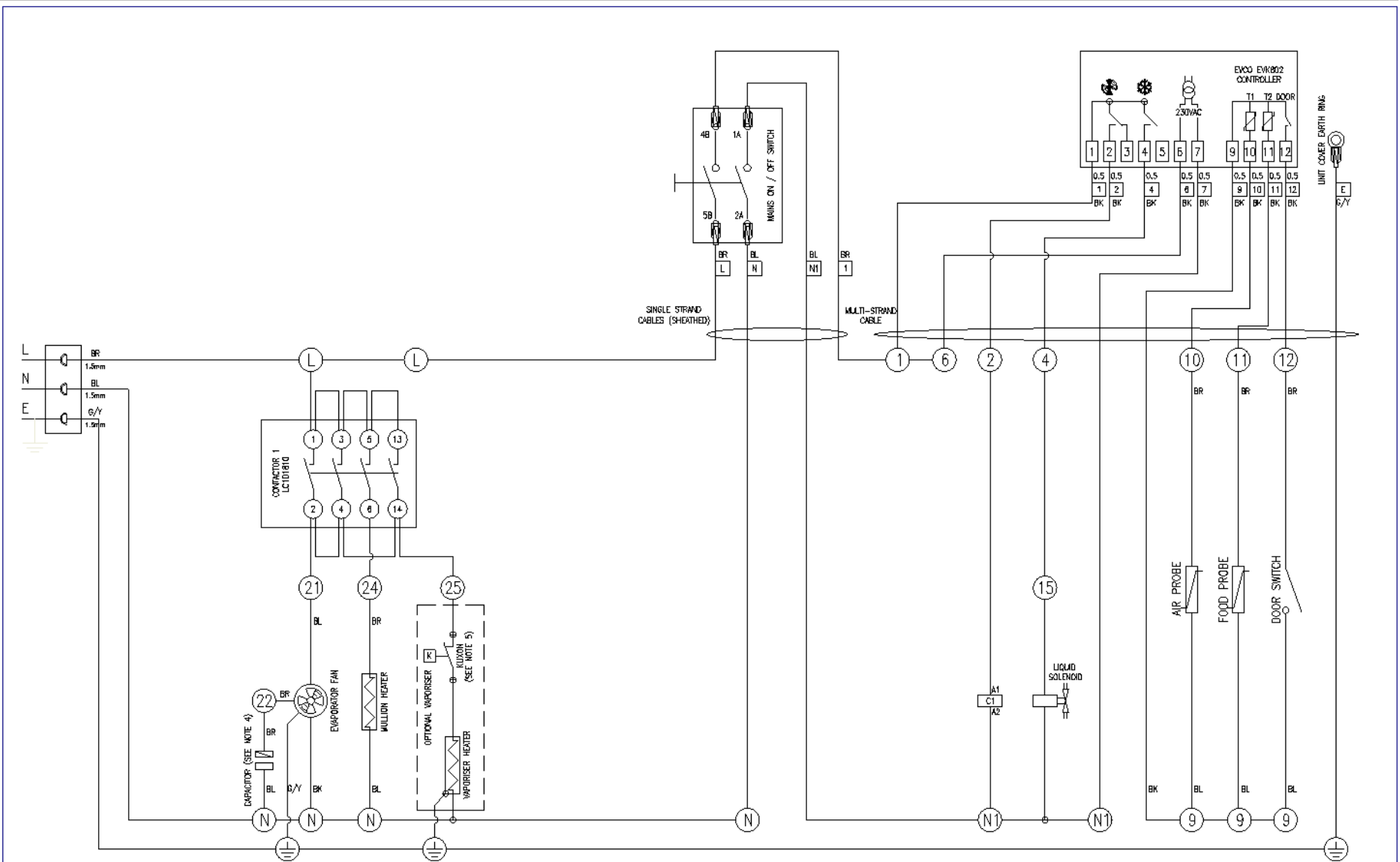
CIRCUIT SHOWN DE-ENERGISED.
 FXBC 20 FITTED WITH 4LF EVAP. FAN CAPACITOR
 VAPORISER KJXON DC <65°C, DC>=72°C

ALL CABLES 1mm UNLESS STATED

CABLE COLOUR CODE -
 BR - BROWN
 BL - BLUE
 G/Y - GREEN/YELLOW
 RD - RED
 OR - ORANGE
 BK - BLACK
 WH - WHITE
 GY - GREY
 VT - VIOLET
 PK - PINK
 BG - BEIGE
 GR - GREEN
 CL - CLEAR

01.02		ndode	08/05/2007
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			Drawn : ndode
			Approved :
	INTEGRAL MODEL		Sheet of

FXBC 20R Wiring Diagram



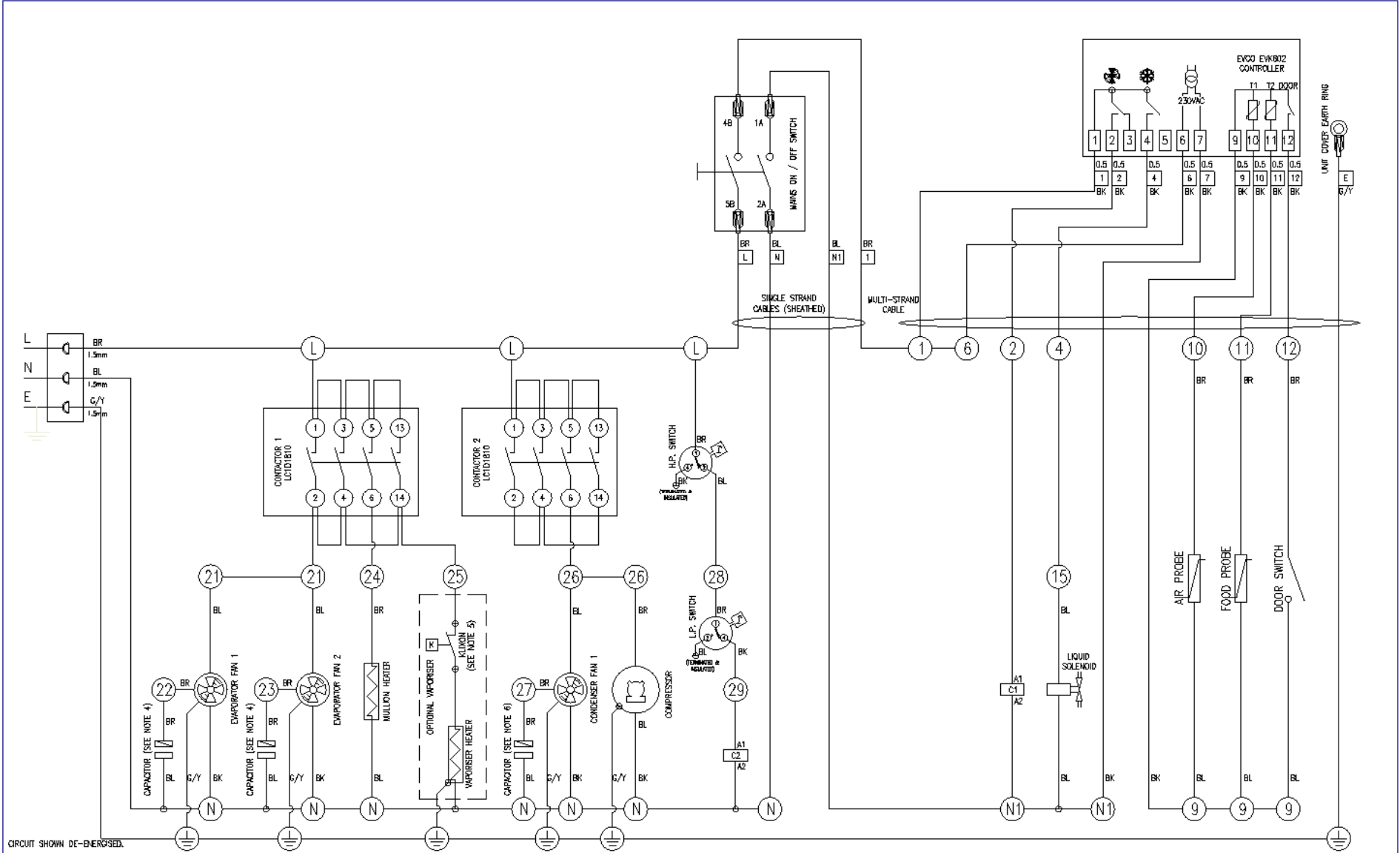
CIRCUIT SHOWN DE-ENERGISED.
 FXBC 20 FITTED WITH 4µF EVAP. FAN CAPACITOR
 VAPORISER KUXON CC <85°C, CC>=72°C
 ALL CABLES 1m UNLESS STATED

CABLE COLOUR CODE -

BR - BROWN	BK - BLACK	PK - PINK
BL - BLUE	WH - WHITE	IG - BEIGE
G/Y - GREEN/YELLOW	GY - GREY	GR - GREEN
RD - RED	VT - VIOLET	CL - CLEAR
OR - ORANGE		

01.02		ndode	08/05/2007
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	REMOTE MODEL	Date : 08/05/2007	Drawn : ndode
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FXBC 30 Wiring Diagram

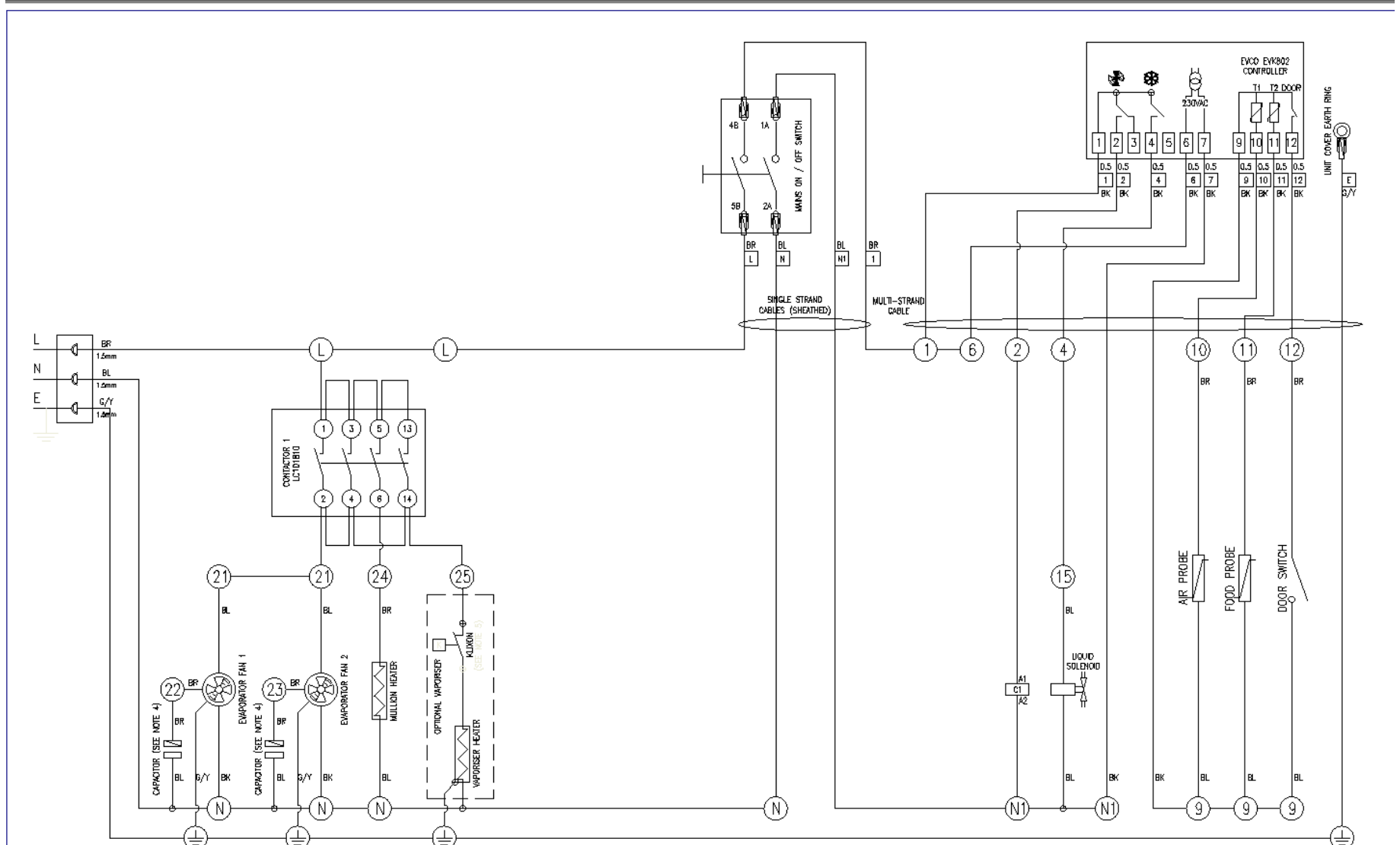


CIRCUIT SHOWN DE-ENERGISED.
 FXBC 30 FITTED WITH 4µF EVAP. FAN CAPACITOR
 VAPORISER Klixon CC <65°C, CC>=72°C
 FXBC 30 FITTED WITH 6µF COND. FAN CAPACITOR
 ALL CABLES 1mm UNLESS STATED

CABLE COLOUR CODE -
 BR - BROWN
 BL - BLUE
 G/Y - GREEN/YELLOW
 RD - RED
 OR - ORANGE
 BK - BLACK
 WH - WHITE
 GY - GREY
 GR - GREEN
 VT - VIOLET
 PK - PINK
 BG - BEIGE
 GR - GREEN
 CL - CLEAR

01.02		ndade	08/05/2007
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		Approved:	
	INTEGRAL MODEL	Sheet	of

FXBC 30R Wiring Diagram



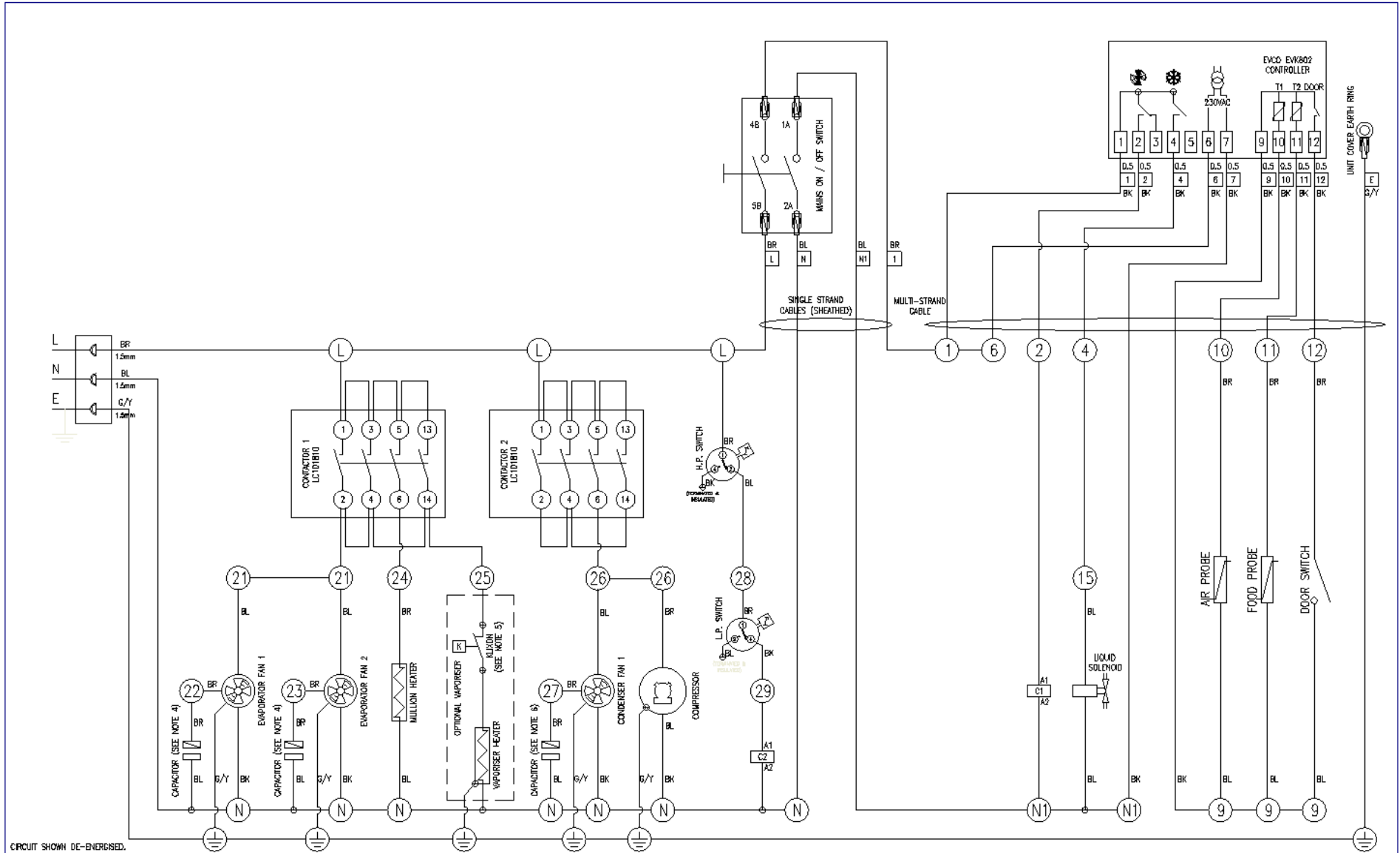
CIRCUIT SHOWN DE-ENERGISED.
 FXBC 30 FITTED WITH 4µF EVAP. FAN CAPACITOR
 VAPOURISER KLUXON CC <65°C, CC>=72°C
 FXBC 30 FITTED WITH 6µF COND. FAN CAPACITOR
 ALL CABLES 1mm UNLESS STATED

CABLE COLOUR CODE -
 BR - BROWN
 BL - BLUE
 G/Y - GREEN/YELLOW
 RD - RED
 OR - ORANGE
 BK - BLACK
 WH - WHITE
 GR - GREEN
 VT - VIOLET
 PK - PINK
 BG - BEIGE
 GR - GREEN
 CL - CLEAR



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		Date:	08/05/2007
		Drawn:	ndade
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FXBC 40 Wiring Diagram

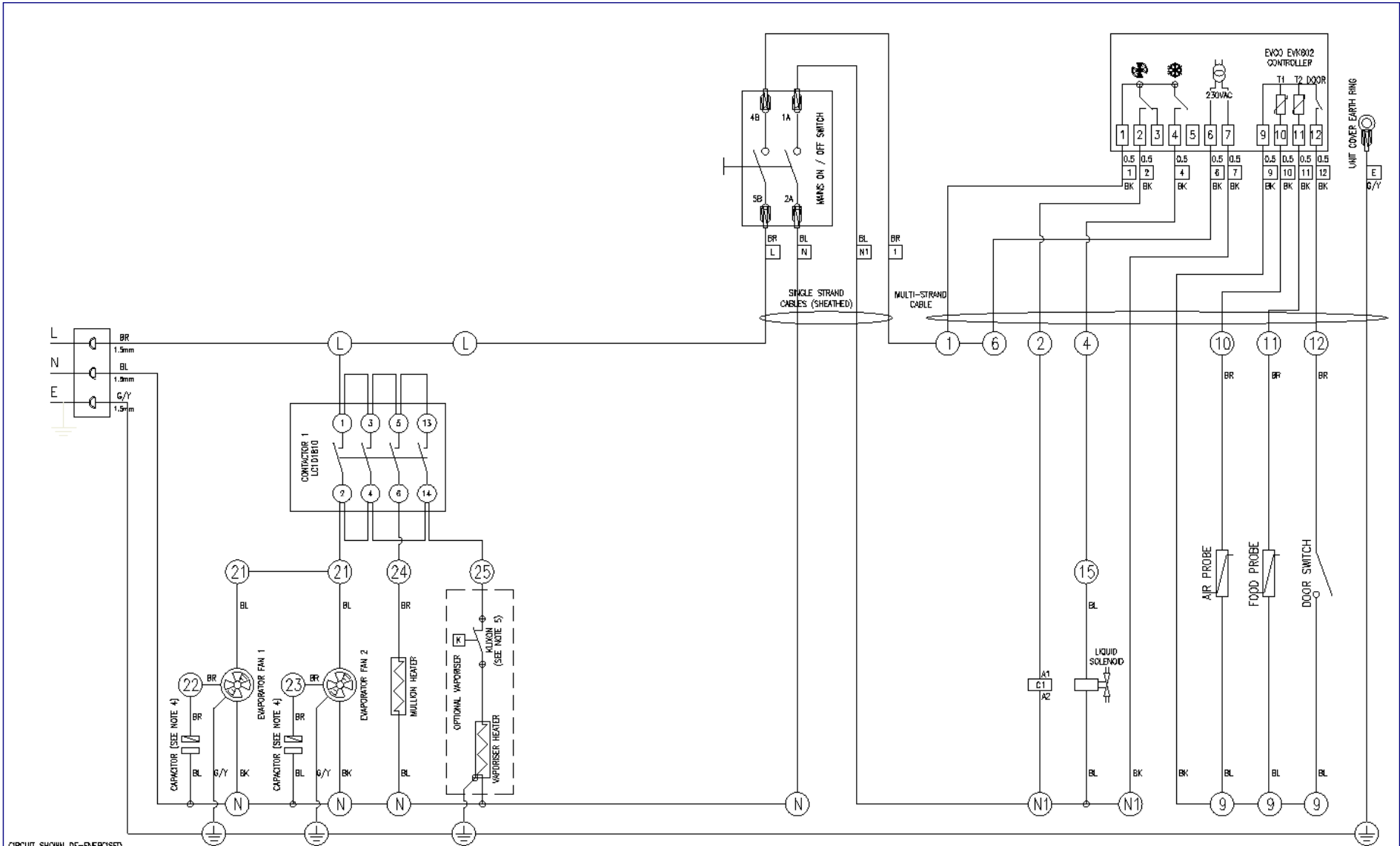


CIRCUIT SHOWN DE-ENERGISED.
 FXBC 40 FITTED WITH 4µF EVAP. FAN CAPACITOR
 VAPORISER MIXON DC <65°C, DC=>72°C
 FXBC 40 FITTED WITH 8µF COND. FAN CAPACITOR
 ALL CABLES 1mm UNLESS STATED

CABLE COLOUR CODE -
 BR - BROWN
 BL - BLUE
 G/Y - GREEN/YELLOW
 RD - RED
 OR - ORANGE
 BK - BLACK
 WH - WHITE
 GY - GREY
 VT - VIOLET
 PK - PINK
 JG - BEIGE
 GR - GREEN
 CL - CLEAR

01.02		ndade	08/05/2007
REV	DESCRIPTION	BY	DATE
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	FXBC 40	Drawing No.:	01-259331-00-01.02
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FXBC 40R Wiring Diagram



CIRCUIT SHOWN DE-ENERGISED.
 FXBC 40 FITTED WITH 4µF EVAP. FAN CAPACITOR
 VAPORISER MUXON CC <65°C, 0C>=72°C
 FXBC 40 FITTED WITH 6µF COND. FAN CAPACITOR
 ALL CABLES 1m UNLESS STATED

CABLE COLOUR CODE -

BR - BROWN	BK - BLACK	PK - PINK
BL - BLUE	WH - WHITE	BG - BEIGE
G/Y - GREEN/YELLOW	GY - GREY	GR - GREEN
RD - RED	VT - VIOLET	CL - CLEAR
OR - ORANGE		

01.02		ndade	08/05/2007
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	FOSTER EXTRA SERIES BLAST CHILLER		
	FXBC 40R	Drawing No. : 01-259332-00-01.02	
	REMOTE VERSION	Date : 08/05/2007	Drawn : ndade
		Approved :	
		Sheet	of



REFRIGERATOR

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Email: commercial@fosterfrance.com

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