



By Appointment to  
Her Majesty Queen Elizabeth II  
Suppliers of Commercial Refrigeration  
Foster Refrigerator, King's Lynn

# Blast Chillers & Freezers

## Cabinet & Modular Models

FC1-11 Touchpad Controller

English



Feb 2013 Version 1



A Division of ITW Ltd  
Foster Refrigerator,  
Oldmedow Road,  
King's Lynn,  
Norfolk, PE30 4JU  
United Kingdom

Call: +44 (0)843 216 8800

Fax: +44 (0)843 216 4700

Email: [support@foster-uk.com](mailto:support@foster-uk.com)

[www.fosterrefrigerator.co.uk](http://www.fosterrefrigerator.co.uk)

## Contents

Wiring Diagram – BCT11/ BCFT11 (Integral)	2
Wiring Diagram – BCT11/ BCFT11 (Remote)	3
Wiring Diagram – BCT21 (Integral)	4
Wiring Diagram – BCT21/ BCFT21 (Remote)	5
Wiring Diagram – BCFT21 (Integral)	6
Wiring Diagram – BCT36 13a (Integral)	7
Wiring Diagram – BCT36 (Integral)	8
Wiring Diagram – BCT36/ BCFT51 (Remote)	9
Wiring Diagram – BCT51 (Integral)	10
Wiring Diagram – BCFT36/ BCFT51 (Integral)	11
Wiring Diagram – BCFT36/ BCFT51 (Remote)	12
Wiring Diagram – BCCFT RI1 (Remote)	13
Wiring Diagram – MCBT75/ MBCT100/ MBCT150 (Remote)	14 to 15
Wiring Diagram – MBCFT75/ MBCFT100/ MBCFT150 (Remote)	16 to 17
Wiring Diagram – MBCT250 (Remote)	18 to 19
Wiring Diagram – MBCFT250 (Remote)	20 to 21
Air & Evaporator Probe Details /Diagram	22

### Manual Information:

The products and all information in this manual are subject to change without prior notice. We assume by the information given that the person(s) working on these refrigeration units are fully trained and skilled in all aspects of their workings. Also that they will use the appropriate safety equipment and take or meet precautions where required. This diagrams manual does not cover information on every variation of this unit; neither does it cover the installation or every possible operating or maintenance instruction for the units.

### General Electrical Safety

Foster Refrigerator recommends that the equipment is electrically connected via a Residual Current Device; such as a Residual Current Circuit Breaker (RCCB) type socket, or through a Residual Current Circuit Breaker with Overload Protection (RCBO) supplied circuit.

## Health & Safety Warnings and Information



Make sure the power supply is turned off before making any electrical repairs.



To minimise shock and fire hazards, please do not plug or unplug the unit with wet hands.



During maintenance and cleaning, please unplug the unit where required.



Care must be taken when handling or working on the unit as sharp edges may cause personal injury, we recommend the wearing of suitable PPE.



Ensure the correct moving and lifting procedures are used when relocating a unit.



Do NOT use abrasive cleaning products, only those that are recommended. Never scour any parts of the refrigerator. Scouring pads or chemicals may cause damage by scratching or dulling polished surface finishes.



Failure to keep the condenser clean may cause premature failure of the motor/compressor which will NOT be covered under warranty policy.

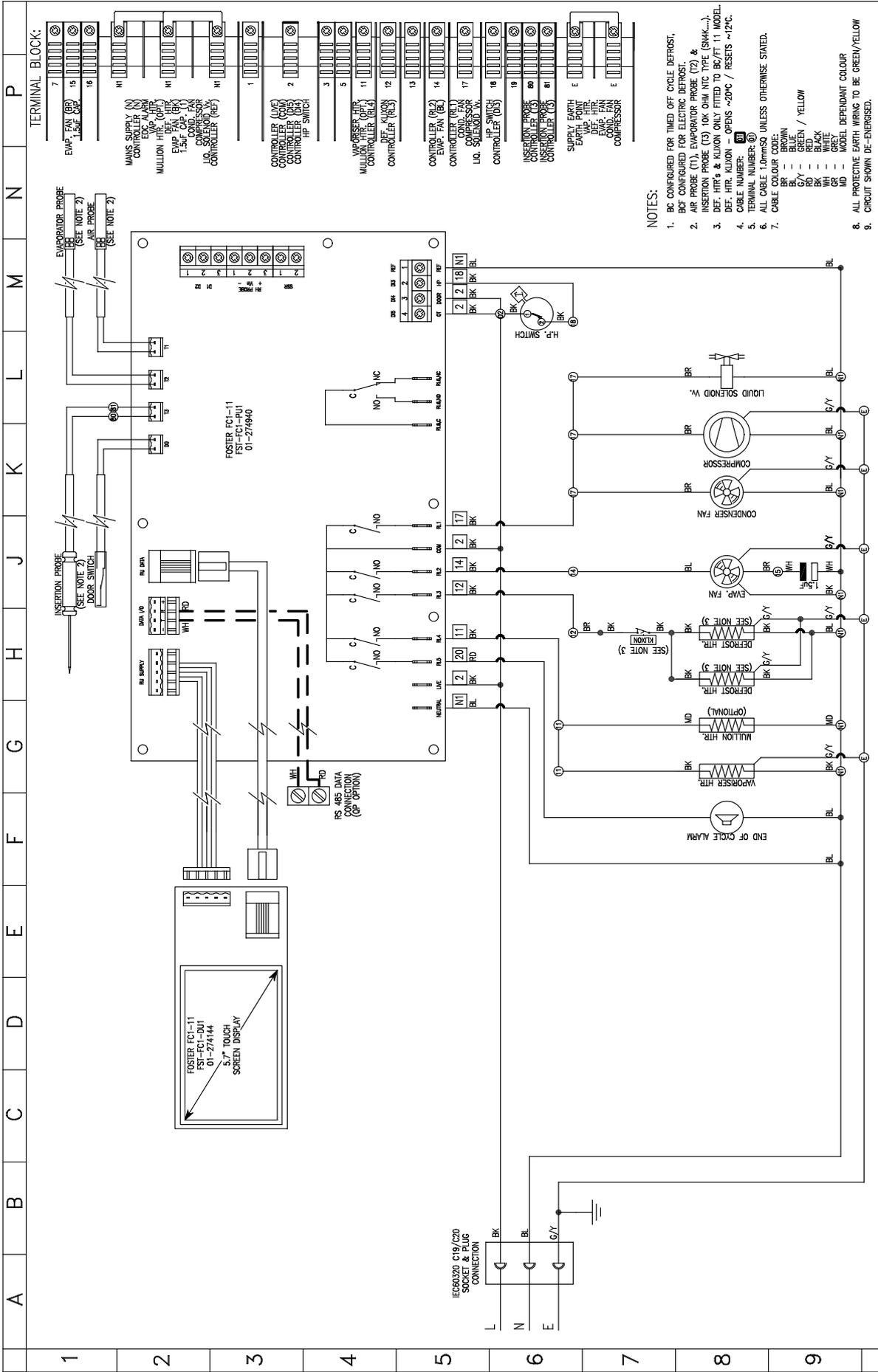


Do NOT touch the cold surfaces in the freezer compartment. Particularly when hands are damp or wet, skin may adhere to these extremely cold surfaces and cause frostbite.



Please ensure the appropriate use of safety aids or Personnel Protective Equipment (PPE) are used for you own safety.

Wiring Diagram – BCT11 & BCFT11 (Integral)



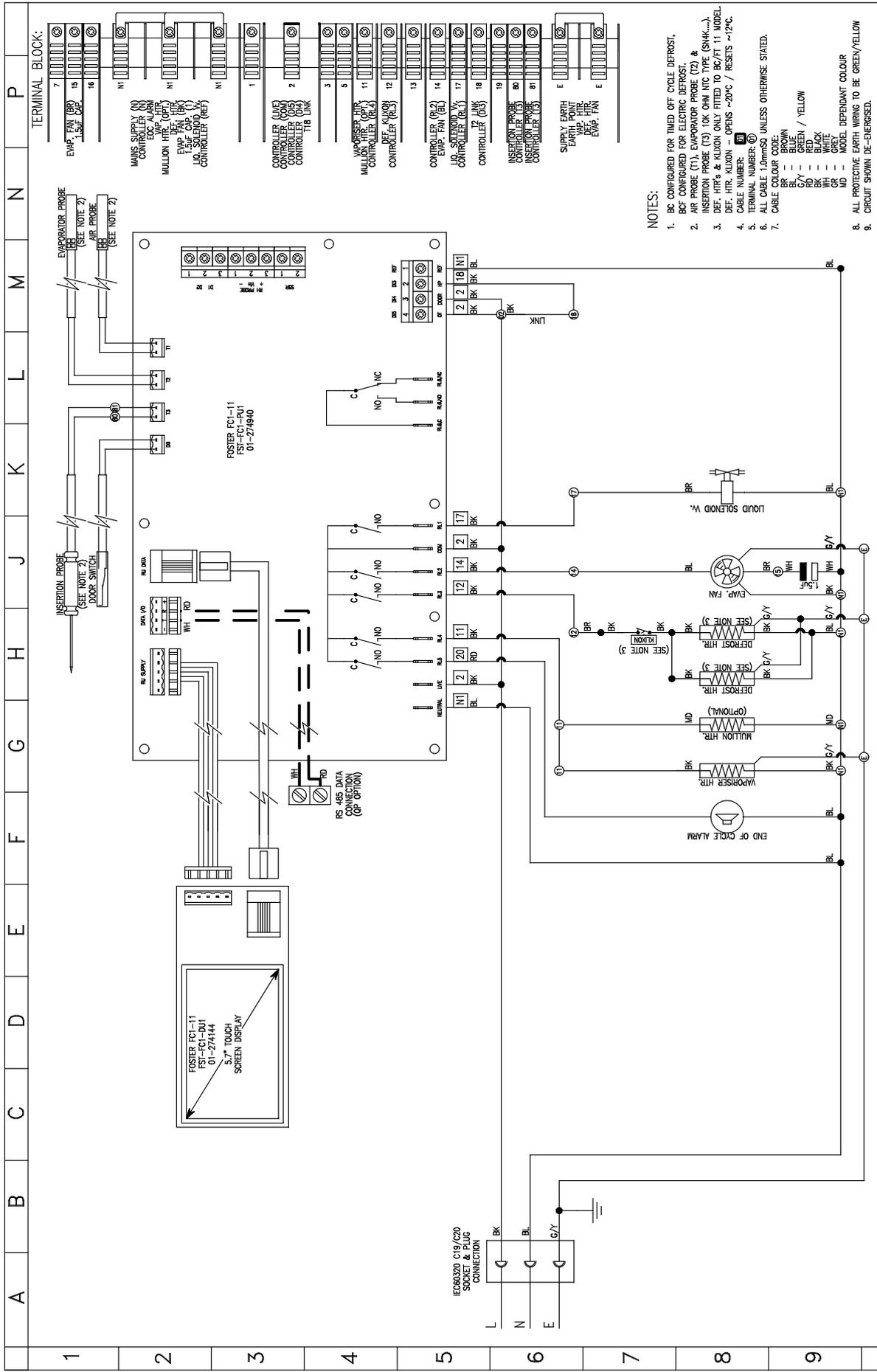
NOTES:

1. BC CONFIGURED FOR TIMED OF CYCLE DEFROST. BCF CONFIGURED FOR ELECTRIC DEFROST.
2. AIR PROBE (I1), EVAPORATOR PROBE (I2) & INSERTION PROBE (I3) 10K OHM NTC TYPE (S/NK...).
3. DEF. HTR. & KLIXON - OPENS ONLY FITTED TO BC/FT 11 MODEL.
4. CABLE NUMBER: (C)
5. TERMINAL NUMBER: (E)
6. CABLE COLOUR CODE:
  - BR - BROWN
  - BL - BLUE
  - G/Y - GREEN / YELLOW
  - W - WHITE
  - WH - WHITE
  - BLK - BLACK
  - RD - RED
  - GR - GREEN
  - MD - MODEL DEPENDANT COLOUR
7. ALL CABLE 1.0mm<sup>2</sup> UNLESS OTHERWISE STATED.
8. ALL PROTECTIVE EARTH WIRING TO BE GREEN/YELLOW
9. CIRCUIT SHOWN DE-ENERGISED.

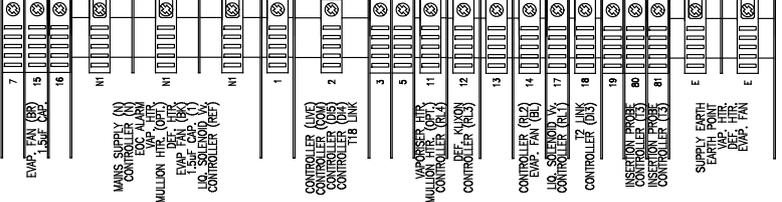
10	<p>REV: 02 TRS 485 OPTION DETAIL ADDED MJD DATE</p> <p>DESCRIPTION: FOSTER BCT11 / BCFT11</p> <p>DRAWN: MJD DATE: 01/06/12</p> <p>CHECKED: MJD DATE: 01/06/12</p> <p>CREATED IN ACCORDANCE WITH: 01-PP-001-1 FORM REV. 1</p>									
9	<p>WIRING NO. 01-275646-00-02</p> <p>SHEET 1 OF 1</p> <p>DRAWN: MJD DATE: 01/06/12</p> <p>CHECKED: MJD DATE: 01/06/12</p> <p>CREATED IN ACCORDANCE WITH: 01-PP-001-1 FORM REV. 1</p>									
8	<p>FOSTER REFRIGERATOR (U.K.) LTD</p> <p>OLDMEADOW ROAD KING'S LYNN NORFOLK PE30 4JU</p> <p>FOSTER</p>									
7	<p>FOSTER REFRIGERATOR (U.K.) LTD</p> <p>FOSTER BCT11 / BCFT11</p> <p>BLAST CHILLER / FREEZER MODELS</p> <p>FCI-11 CONTROLLER VERSION</p> <p>INTEGRAL CONFIGURATION</p>									
6	<p>FOSTER REFRIGERATOR (U.K.) LTD</p> <p>FOSTER BCT11 / BCFT11</p> <p>BLAST CHILLER / FREEZER MODELS</p> <p>FCI-11 CONTROLLER VERSION</p> <p>INTEGRAL CONFIGURATION</p>									
5	<p>FOSTER REFRIGERATOR (U.K.) LTD</p> <p>FOSTER BCT11 / BCFT11</p> <p>BLAST CHILLER / FREEZER MODELS</p> <p>FCI-11 CONTROLLER VERSION</p> <p>INTEGRAL CONFIGURATION</p>									
4	<p>FOSTER REFRIGERATOR (U.K.) LTD</p> <p>FOSTER BCT11 / BCFT11</p> <p>BLAST CHILLER / FREEZER MODELS</p> <p>FCI-11 CONTROLLER VERSION</p> <p>INTEGRAL CONFIGURATION</p>									
3	<p>FOSTER REFRIGERATOR (U.K.) LTD</p> <p>FOSTER BCT11 / BCFT11</p> <p>BLAST CHILLER / FREEZER MODELS</p> <p>FCI-11 CONTROLLER VERSION</p> <p>INTEGRAL CONFIGURATION</p>									
2	<p>FOSTER REFRIGERATOR (U.K.) LTD</p> <p>FOSTER BCT11 / BCFT11</p> <p>BLAST CHILLER / FREEZER MODELS</p> <p>FCI-11 CONTROLLER VERSION</p> <p>INTEGRAL CONFIGURATION</p>									
1	<p>FOSTER REFRIGERATOR (U.K.) LTD</p> <p>FOSTER BCT11 / BCFT11</p> <p>BLAST CHILLER / FREEZER MODELS</p> <p>FCI-11 CONTROLLER VERSION</p> <p>INTEGRAL CONFIGURATION</p>									

**CUSTOMER COPY**

Wiring Diagram – BCT11 & BCFT11 (Remote)



TERMINAL BLOCK:

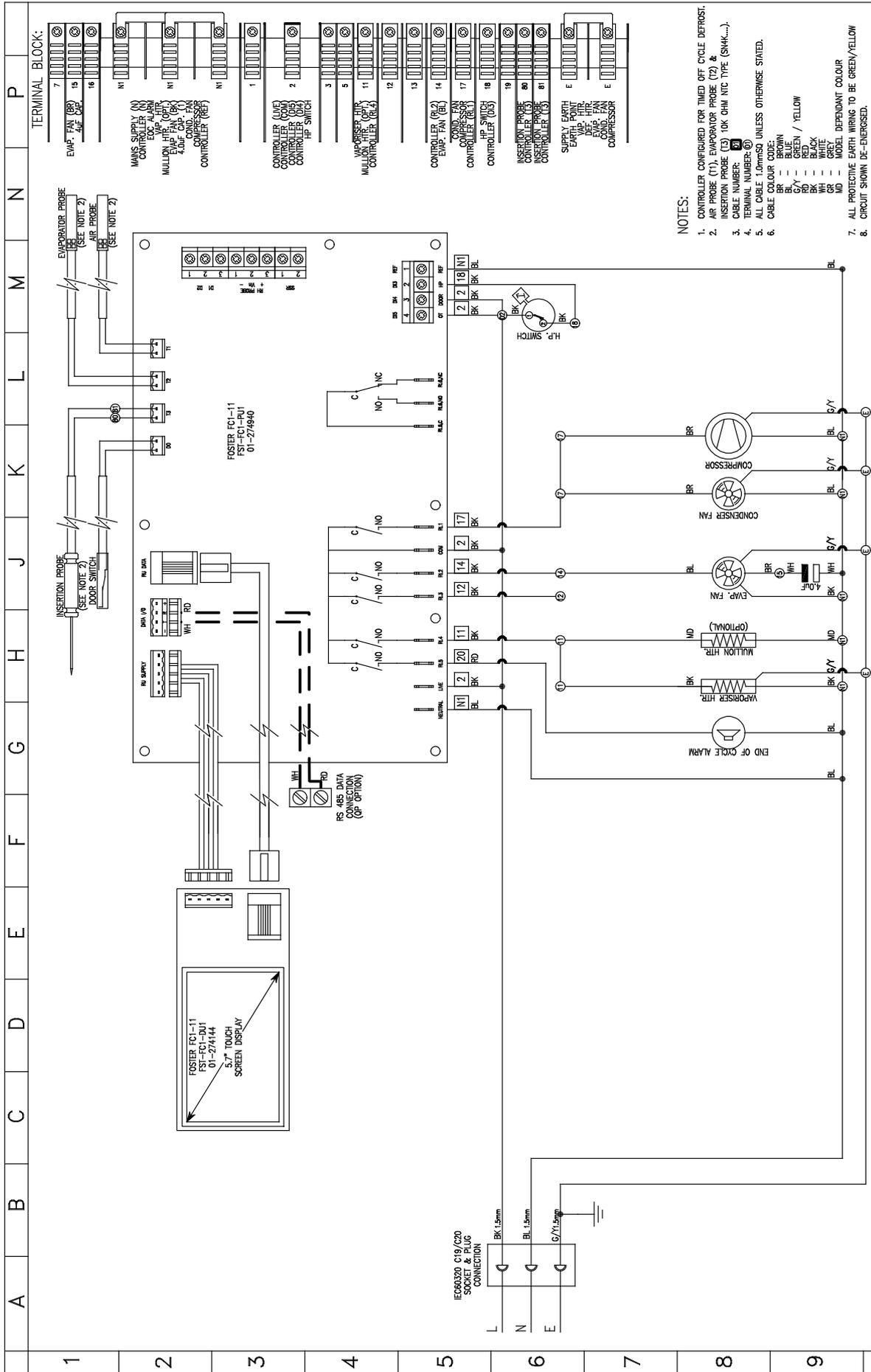


- NOTES:
- BC CONFIGURED FOR TIMED OFF CYCLE DEFROST.
  - BCF CONFIGURED FOR ELECTRIC DEFROST.
  - AIR PROBE (T1), EVAPORATOR PROBE (T2) & INSERTION PROBE (T3) 10K OHM NTC TYPE (SHK...).
  - DEF. HTR'S & KUXON ONLY FITTED TO BC/FT 11 MODEL.
  - DEF. HTR. KUXON - OPENS +/-20°C / RESETS +/-2°C.
  - CABLE NUMBER: 01
  - TERMINAL NUMBER: 01
  - ALL CABLE 1.0mmSQ UNLESS OTHERWISE STATED.
  - CABLE COLOUR CODE:
    - BR - BROWN
    - BL - BLUE
    - G/Y - GREEN / YELLOW
    - RD - RED
    - WH - WHITE
    - CR - GREY
    - MD - MODEL DEPENDANT COLOUR
  - ALL PROTECTIVE EARTH WIRING TO BE GREEN/YELLOW
  - CIRCUIT SHOWN DE-ENERGISED.

02	RS-485 OPTION	NO INCA	BY DATE
REV	DESCRIPTION	ISSUE NO.	BY DATE
TITLE - WIRING DIAGRAM FOSTER BCT11 / BCFT11 BLAST CHILLER / FREEZER MODELS KING'S LYNN NORFOLK PE80 4TU FOSTER OLDMEADOW ROAD KING'S LYNN NORFOLK PE80 4TU FOSTER REFRIGERATOR (U.K) LTD FOSTER BCT11 / BCFT11 BLAST CHILLER / FREEZER MODELS FCI-11 CONTROLLER VERSION REMOTE CONFIGURATION			
01-275547-00-02		SHEET 1 OF 1	
SCALE 1:1		DATE 07/06/12	
DRAWN NAD		CHECKED IN ACCORDANCE WITH 01-00-SERVICE FORM INC. 100 -	

**CUSTOMER COPY**

Wiring Diagram – BCT21 (Integral)



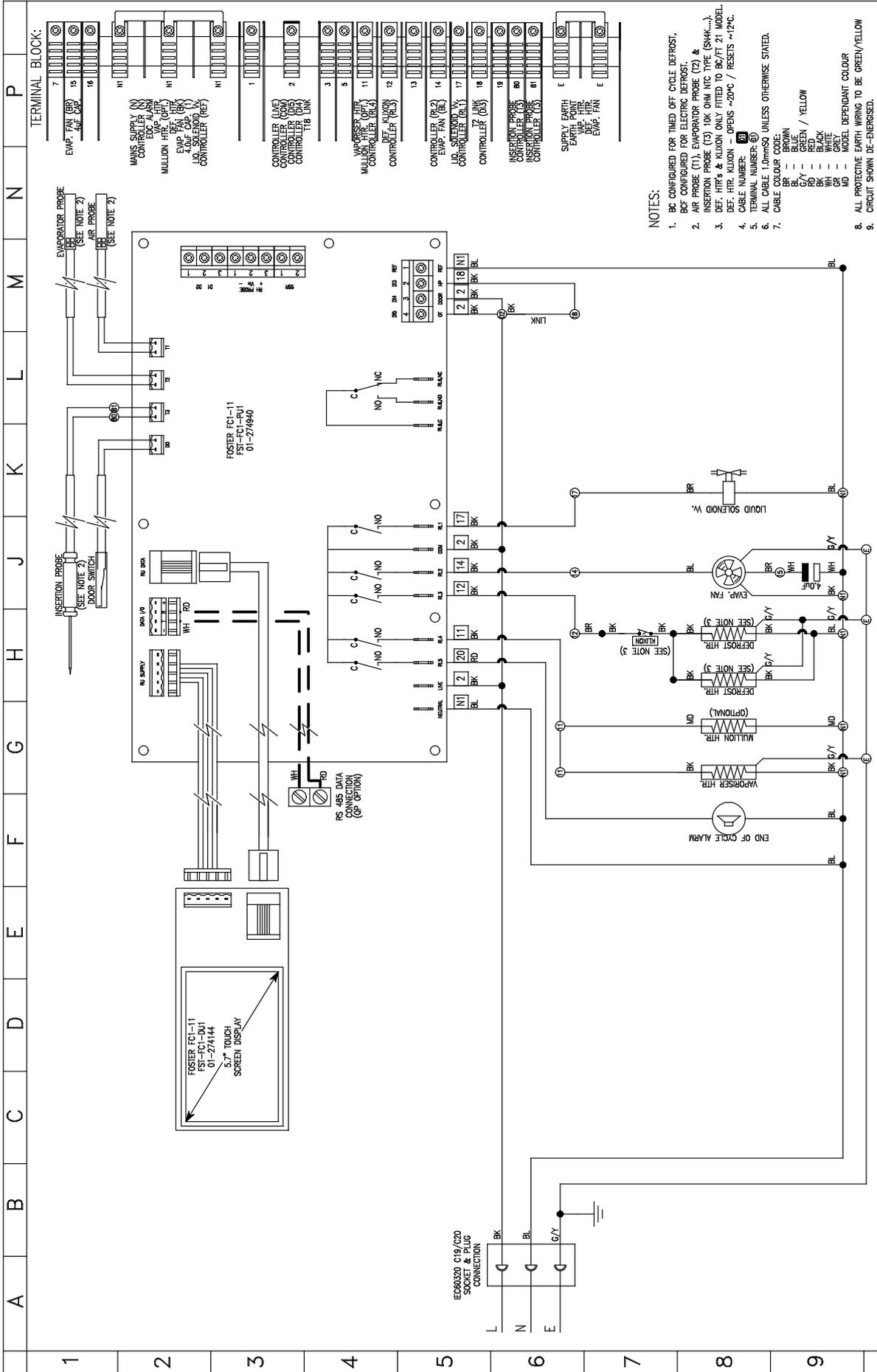
- NOTES:**
1. CONTROLLER CONFIGURED FOR TUNED OFF CYCLE DEFROST.
  2. AIR PROBE (1); EVAPORATOR PROBE (12) & INSERTION PROBE (2) FOR OHM TIC TYPE (SNK....).
  3. CABLE NUMBER (3) FOR OHM TIC TYPE (SNK....).
  4. TERMINAL NUMBER (3)
  5. ALL CABLE 1.0mm<sup>2</sup> UNLESS OTHERWISE STATED.
  6. CABLE COLOUR CODE:  
BR --- BROWN  
BL --- BLUE  
GY --- GREEN / YELLOW  
BK --- BLACK  
WH --- WHITE  
RD --- RED  
MD --- MODEL DEPENDANT COLOUR
  7. ALL PROTECTIVE EARTH WIRING TO BE GREEN/YELLOW
  8. CIRCUIT SHOWN DE-ENERGISED.

REV	DESCRIPTION	NO.	BY	DATE
02	RS-485 OPTION DETAIL ADDED	NAD	MSW/21	
WIRING DIAGRAM FOSTER BCT21 BLAST CHILLER MODEL FCI-11 CONTROLLER VERSION INTEGRAL CONFIGURATION				
SHEET NO. 1 OF 1 DRAWN NTS CHECKED IN ACCORDANCE WITH 01-27/5548-00-02 07/06/12 01-07-014-E FORM NO. 100 -				

**CUSTOMER COPY**

**FOSTER REFRIGERATOR (U.K) LTD**  
 OLDMEADOW ROAD KING'S LYNN NORFOLK PE30 4JU

Wiring Diagram – BCT21/ BCFT21 (Remote)



TERMINAL BLOCK:

7	15	EVAP. FAN (FR)
16	16	4.0µF CAP. (FR)
17	17	EVAP. FAN (OP)
18	18	4.0µF CAP. (OP)
19	19	EVAP. FAN (REF)
20	20	4.0µF CAP. (REF)
21	21	MAN'S SUPPLY (N)
22	22	CONTROL (N)
23	23	EVAP. FAN (N)
24	24	MULLION HTR. (OP)
25	25	EVAP. FAN (OP)
26	26	4.0µF CAP. (OP)
27	27	CONTROL (OP)
28	28	LINK
29	29	CONTROL (LINE)
30	30	CONTROL (COM)
31	31	CONTROL (OP)
32	32	CONTROL (T8 LINK)
33	33	VAPORISER HTR. (OP)
34	34	MULLION HTR. (OP)
35	35	CONTROL (R/L)
36	36	CONTROL (R/S)
37	37	CONTROL (R/L)
38	38	CONTROL (R/S)
39	39	CONTROL (R/L)
40	40	CONTROL (R/S)
41	41	CONTROL (R/L)
42	42	CONTROL (R/S)
43	43	CONTROL (R/L)
44	44	CONTROL (R/S)
45	45	CONTROL (R/L)
46	46	CONTROL (R/S)
47	47	CONTROL (R/L)
48	48	CONTROL (R/S)
49	49	CONTROL (R/L)
50	50	CONTROL (R/S)
51	51	CONTROL (R/L)
52	52	CONTROL (R/S)
53	53	CONTROL (R/L)
54	54	CONTROL (R/S)
55	55	CONTROL (R/L)
56	56	CONTROL (R/S)
57	57	CONTROL (R/L)
58	58	CONTROL (R/S)
59	59	CONTROL (R/L)
60	60	CONTROL (R/S)
61	61	CONTROL (R/L)
62	62	CONTROL (R/S)
63	63	CONTROL (R/L)
64	64	CONTROL (R/S)
65	65	CONTROL (R/L)
66	66	CONTROL (R/S)
67	67	CONTROL (R/L)
68	68	CONTROL (R/S)
69	69	CONTROL (R/L)
70	70	CONTROL (R/S)
71	71	CONTROL (R/L)
72	72	CONTROL (R/S)
73	73	CONTROL (R/L)
74	74	CONTROL (R/S)
75	75	CONTROL (R/L)
76	76	CONTROL (R/S)
77	77	CONTROL (R/L)
78	78	CONTROL (R/S)
79	79	CONTROL (R/L)
80	80	CONTROL (R/S)
81	81	CONTROL (R/L)
82	82	CONTROL (R/S)
83	83	CONTROL (R/L)
84	84	CONTROL (R/S)
85	85	CONTROL (R/L)
86	86	CONTROL (R/S)
87	87	CONTROL (R/L)
88	88	CONTROL (R/S)
89	89	CONTROL (R/L)
90	90	CONTROL (R/S)
91	91	CONTROL (R/L)
92	92	CONTROL (R/S)
93	93	CONTROL (R/L)
94	94	CONTROL (R/S)
95	95	CONTROL (R/L)
96	96	CONTROL (R/S)
97	97	CONTROL (R/L)
98	98	CONTROL (R/S)
99	99	CONTROL (R/L)
100	100	CONTROL (R/S)

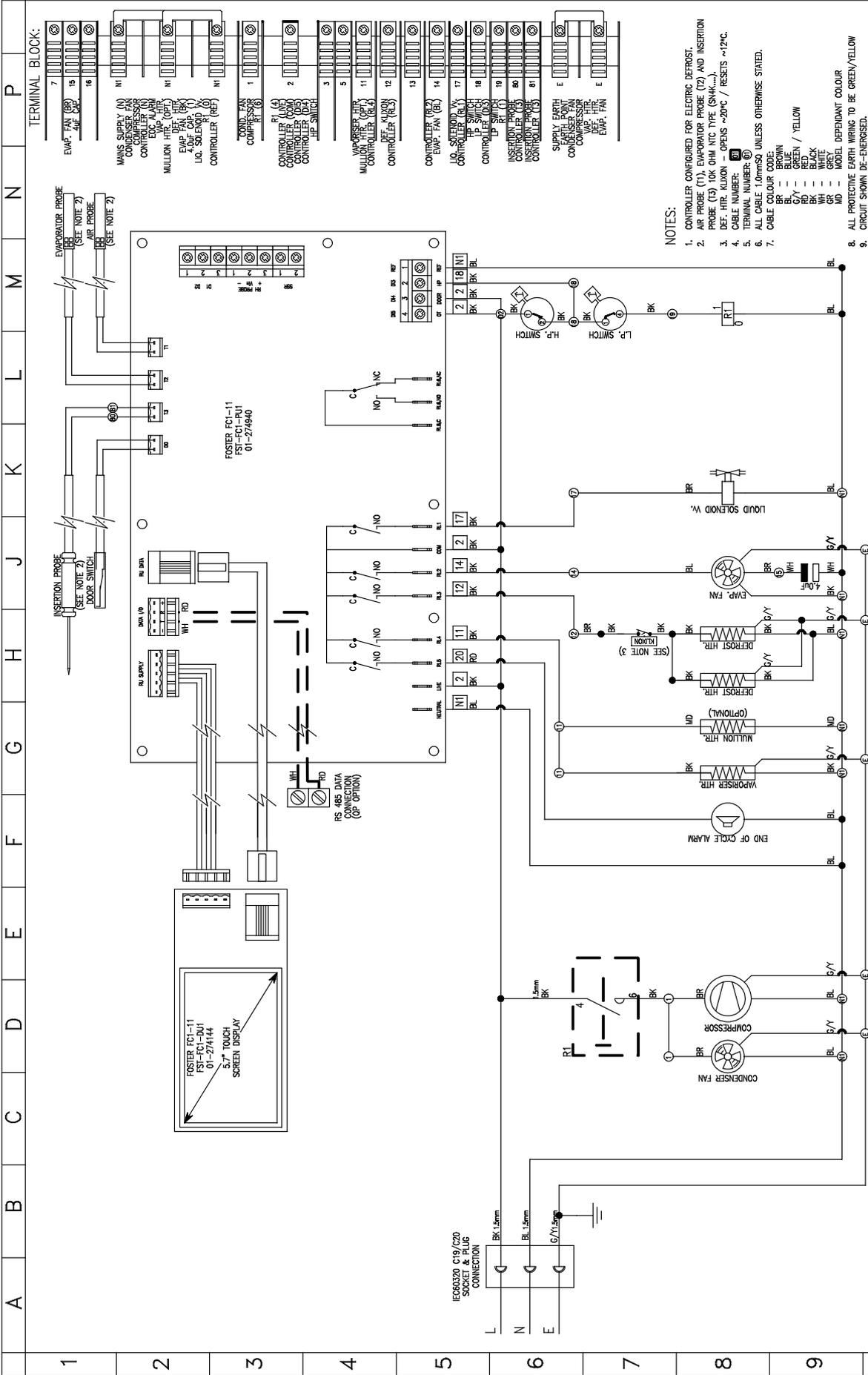
- NOTES:
- BC CONFIGURED FOR TIMED OFF CYCLE DEFROST.
  - BCF CONFIGURED FOR ELECTRIC DEFROST.
  - AR PROBE (T1), EVAPORATOR PROBE (T2) & INSERTION PROBE (T3) 10K OHM NTC TYPE (SNAK...).
  - DEF. HTR. & KLIXON - OPENS ~20°C / RESETS ~12°C.
  - CABLE NUMBER: 31
  - TERMINAL NUMBER: 61
  - CABLE COLOUR CODE:
    - BR - BROWN
    - BL - BLACK
    - C/Y - GREEN / YELLOW
    - RD - RED
    - WH - WHITE
    - GR - GREY
    - MD - MODEL DEFENDANT COLOUR
  - ALL PROTECTIVE EARTH WIRING TO BE GREEN/YELLOW
  - CIRCUIT SHOWN DE-ENERGISED.

02	RS-485 OPTION DETAIL ADDED	MD	MD/20	BY	DATE
WIRING DIAGRAM					
FOSTER BCT21 / BCFT21					
BLAST CHILLER / FREEZER MODELS					
FCI-11 CONTROLLER VERSION					
REMOTE CONFIGURATION					

FOSTER REFRIGERATOR (U.K) LTD  
 OLDMEDDOW ROAD KING'S LYNN NORFOLK PE30 4TU

**CUSTOMER COPY**

Wiring Diagram – BCFT21 (Integral)



- NOTES:**
1. CONTROLLER CONFIGURED FOR ELECTRIC DEFROST.
  2. AIR PROBE (T1), EVAPORATOR PROBE (T2) AND INSERTION PROBE (T3) 10K OHM NTC TYPE (SMAK...).
  3. DEF. HTR. ALUXON - OPENS ~20°C / RESETS ~12°C.
  4. CABLE NUMBER: 6
  5. TERMINAL NUMBER: 6
  6. ALL CABLE 1.0mm<sup>2</sup> UNLESS OTHERWISE STATED.
  7. CABLE COLOUR CODE:  
BR - BROWN  
CY - GREEN / YELLOW  
RD - RED  
BK - BLACK  
WH - WHITE  
GR - GREY  
MD - MODEL DEPENDANT COLOUR
  8. ALL PROTECTIVE EARTH WIRING TO BE GREEN/YELLOW
  9. CIRCUIT SHOWN DE-ENERGISED.

10	REV	DESCRIPTION	DATE
	01	RS 485 OPTION DETAIL ADDED	10/06/12

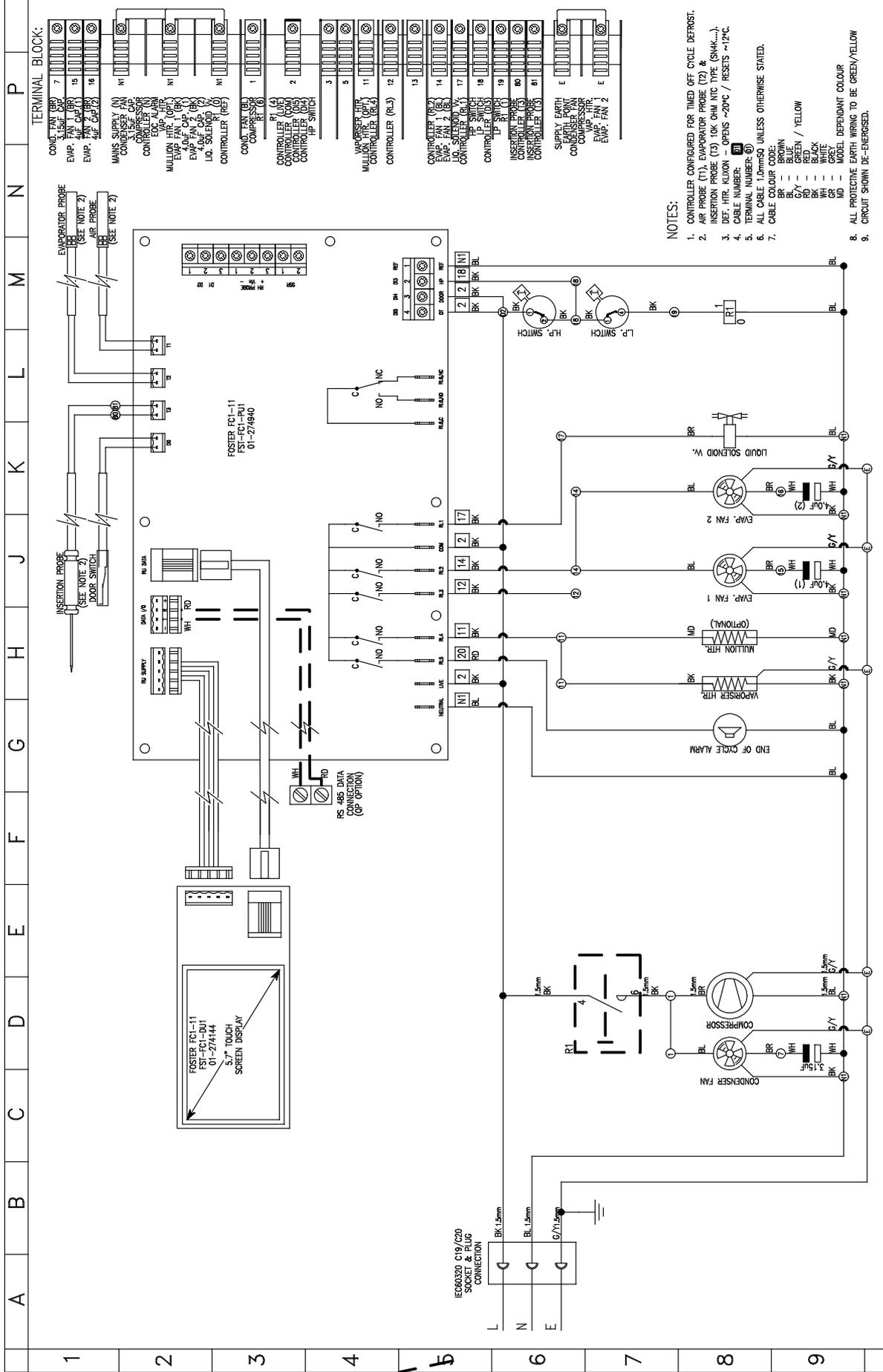
  

WIRING NO. -	01-275550-00-02
SHEET 1 OF 1	
SCALE -	1:1
DRAWN -	NAD
CHECKED IN ACCORDANCE WITH	NIS
DATE	07/06/12
BY	

TITLE	FOSTER REFRIGERATOR (U.K) LTD
WIRING DIAGRAM	FOSTER BCFT21
BLAST CHILLER / FREEZER MODEL	FCI-11 CONTROLLER VERSION
INTEGRAL CONFIGURATION	PE930 4TU
FOSTER	OLDMEADOW ROAD KING'S LYNN NORFOLK PE30 4TU

**CUSTOMER COPY**



- NOTES:**
- CONTROLLER CONFIGURED FOR TIMED OFF CYCLE DEFROST.
  - AIR PROBE (T1), EVAPORATOR PROBE (T2) & INSERTION PROBE (T3) 10K OHM NTC TYPE (SMAK...).
  - DEF. HTR. Klixon - OPENS -20°C / RESETS ~12°C.
  - CABLE NUMBER: 01
  - TERMINAL NUMBER: 01
  - ALL CABLE 1.0mmSQ UNLESS OTHERWISE STATED.
  - CABLE COLOUR CODE:  
 BK - BROWN  
 GRN - GREEN  
 RD - RED  
 WH - WHITE  
 BK - BLACK  
 GR - GREY  
 MD - MODEL DEPENDANT COLOUR
  - ALL PROTECTIVE EARTH WIRING TO BE GREEN/YELLOW
  - CIRCUIT SHOWN DE-ENERGISED.

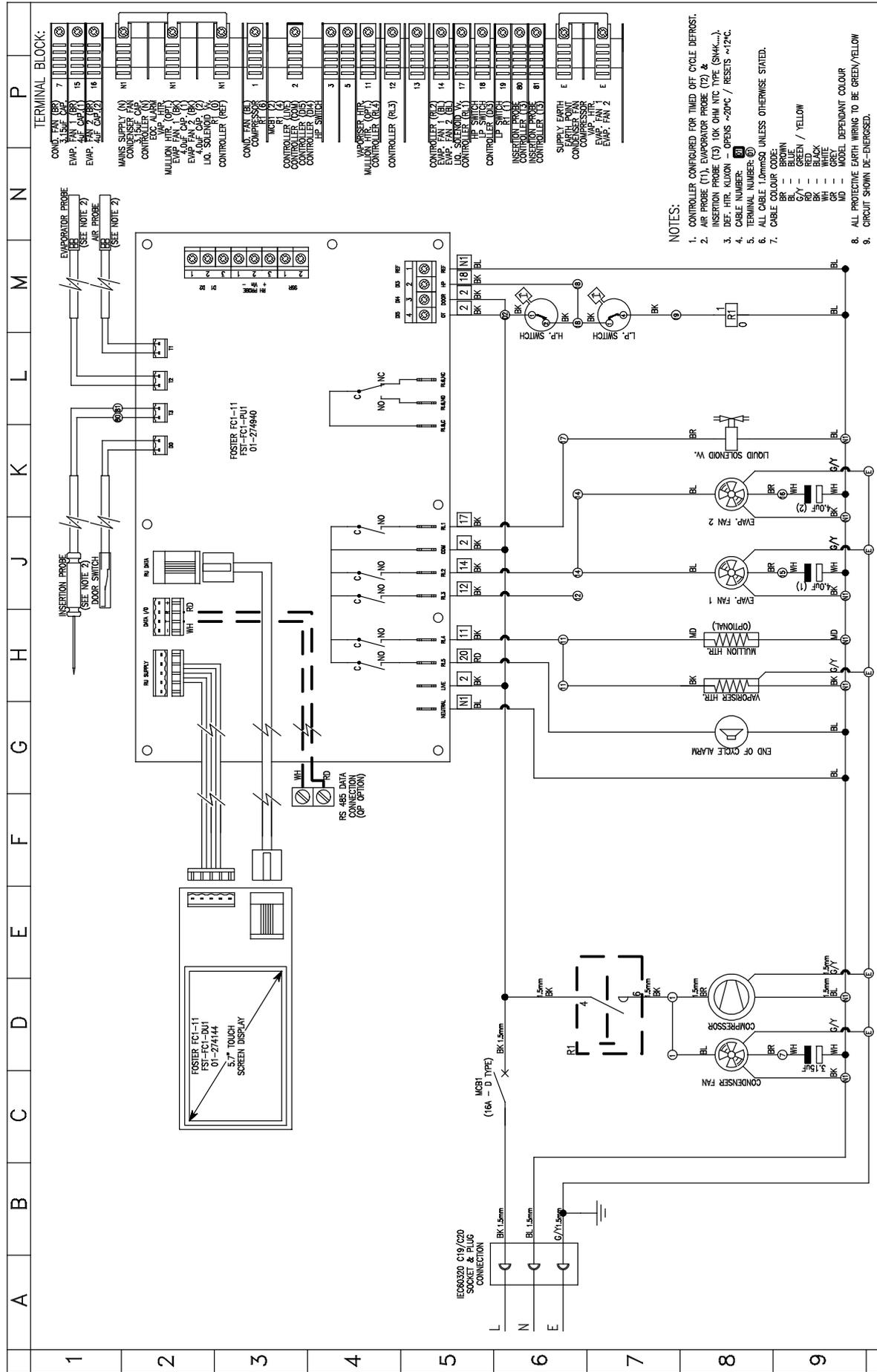
02	RS 485 OPTION DETAIL ADDED	1/10/2014
REV	DESCRIPTION	BY DATE

DRAWING NO. 01-275551-00-02  
 SHEET 1 OF 1  
 DRAWN: MAD NTS DATE: 07/06/12  
 CHECKED: GRS DATE: 07/06/12  
 CIP-070-001-E (FORM NO. 108)

**FOSTER REFRIGERATOR (U.K) LTD**  
 OLDMEADOW ROAD KING'S LYNN NORFOLK PE30 4JU

**FOSTER**  
 FOSTER REFRIGERATOR (U.K) LTD  
 BCT36 13a (13a)  
 BLAST CHILLER MODEL  
 FCI-11 CONTROLLER VERSION  
 INTEGRAL CONFIGURATION

**CUSTOMER COPY**



REV	DESCRIPTION	ADD. DRAWING	BY	DATE
02	RS 485 OPTION DETAIL ADDED			

DRAWING NO. -		SHEET 1 OF 1	
01-275552-00-02			
REV	DATE	REV	DATE
1	01/06/12	1	01/06/12

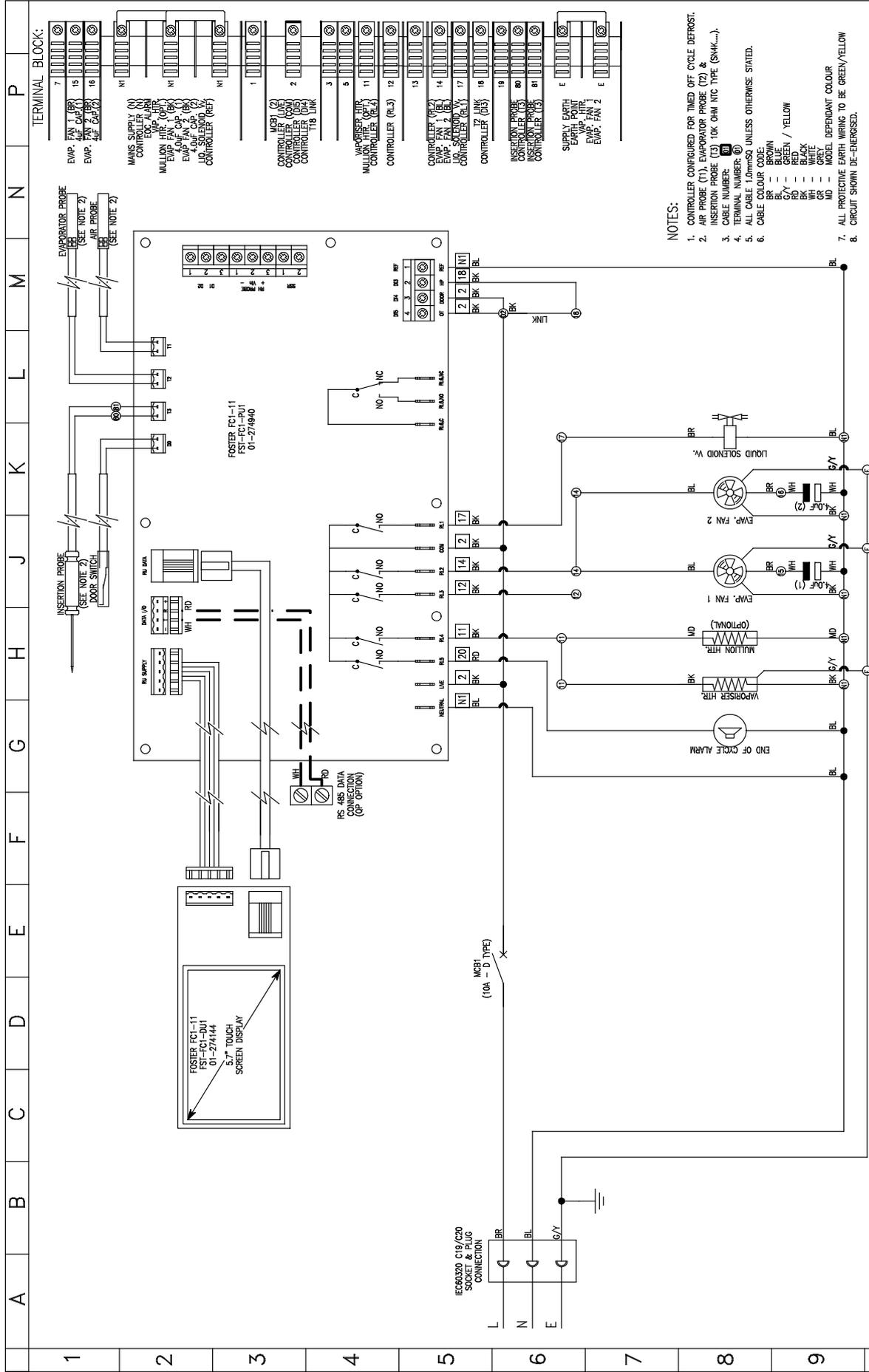
TITLE		DRAWING NO. -	
WIRING DIAGRAM		01-275552-00-02	
FOSTER BCT36			
BLAST CHILLER MODEL			
FCI-11 CONTROLLER VERSION			
INTEGRAL CONFIGURATION			

FOSTER  
 OLDMEADOW ROAD KING'S LYNN NORFOLK PE30 4JT

**CUSTOMER COPY**

Wiring Diagram – BCT36/ BCT51 (Remote)



- NOTES:**
1. CONTROLLER CONFIGURED FOR TIMED OFF CYCLE DEFROST.
  2. AIR PROBE (T1), EVAPORATOR PROBE (T2) & INSERTION PROBE (T3) 10K OHM NTC TYPE (SMAK...).
  3. CABLE NUMBER: 01
  4. TERMINAL NUMBER: 01
  5. ALL CABLE 1.0mm<sup>2</sup> UNLESS OTHERWISE STATED.
  6. CABLE COLOUR CODE:  
 BR – BROWN  
 BK – BLACK  
 WH – WHITE  
 RD – RED  
 BL – BLUE  
 G/Y – GREEN / YELLOW
  7. ALL PROTECTIVE EARTH WIRING TO BE GREEN/YELLOW
  8. CIRCUIT SHOWN DE-ENERGISED.

REV	DESCRIPTION	DATE
01	RS-485 OPTION DETAIL ADDED	01/08/12

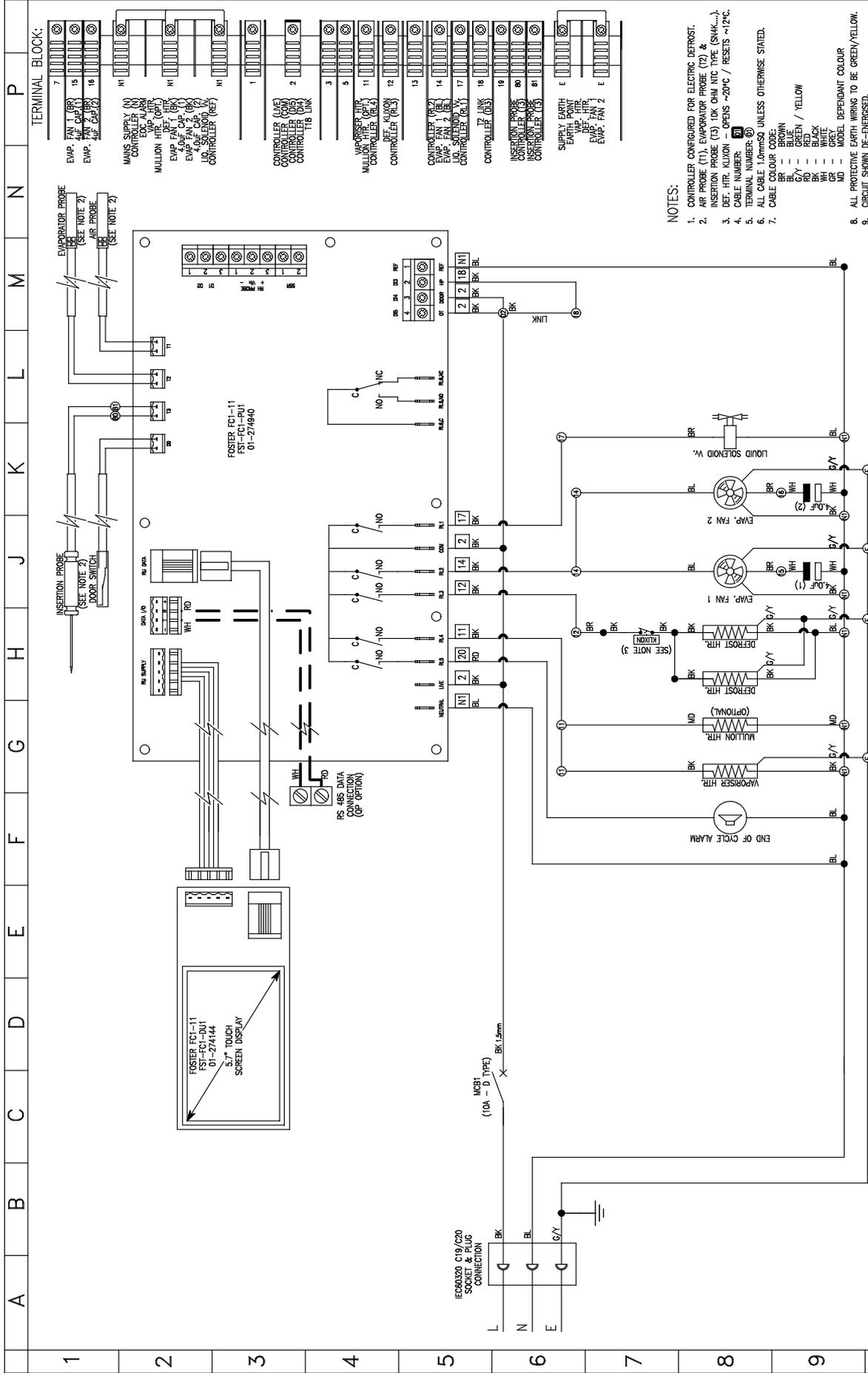
TITLE	DRAWING NO.
WIRING DIAGRAM	01-275553-00-02
FOSTER BCT36, BCT51	SHEET 1 OF 1
BLAST CHILLER MODELS	DATE
FCI-11 CONTROLLER VERSION	01/08/12
REMOTE CONFIGURATION	CHECKED BY
	01-275553-00-02

**FOSTER**  
 FOSTER REFRIGERATOR (U.K) LTD  
 OLDMEADOW ROAD KING'S LYNN NORFOLK PERGO 4JU

CUSTOMER COPY







TERMINAL BLOCK:

7	EMV. FAN 1 (BR)
15	EMV. FAN 2 (BR)
16	EMV. FAN 2 (BK)
18	EMV. FAN 2 (BK)
M1	MAINS SUPPLY (N)
M2	CONTROL (N)
M3	ECC ALARM (N)
M4	MULTIION HTR (OPT)
M5	EMV. FAN 1 (BK)
M6	EMV. FAN 2 (BK)
M7	EMV. FAN 2 (BK)
M8	EMV. FAN 2 (BK)
M9	EMV. FAN 2 (BK)
M10	EMV. FAN 2 (BK)
M11	EMV. FAN 2 (BK)
M12	EMV. FAN 2 (BK)
M13	EMV. FAN 2 (BK)
M14	EMV. FAN 2 (BK)
M15	EMV. FAN 2 (BK)
M16	EMV. FAN 2 (BK)
M17	EMV. FAN 2 (BK)
M18	EMV. FAN 2 (BK)
M19	EMV. FAN 2 (BK)
1	CONTROL (LIVE)
2	CONTROL (COM)
3	CONTROL (ON)
4	CONTROL (ON)
5	CONTROL (ON)
11	VAPORISER HTR (OPT)
12	MULTIION HTR (OPT)
13	DEF. HTR (BK)
14	DEF. HTR (BK)
15	DEF. HTR (BK)
16	DEF. HTR (BK)
17	DEF. HTR (BK)
18	DEF. HTR (BK)
19	DEF. HTR (BK)
20	DEF. HTR (BK)
21	DEF. HTR (BK)
22	DEF. HTR (BK)
23	DEF. HTR (BK)
24	DEF. HTR (BK)
25	DEF. HTR (BK)
26	DEF. HTR (BK)
27	DEF. HTR (BK)
28	DEF. HTR (BK)
29	DEF. HTR (BK)
30	DEF. HTR (BK)
31	DEF. HTR (BK)
32	DEF. HTR (BK)
33	DEF. HTR (BK)
34	DEF. HTR (BK)
35	DEF. HTR (BK)
36	DEF. HTR (BK)
37	DEF. HTR (BK)
38	DEF. HTR (BK)
39	DEF. HTR (BK)
40	DEF. HTR (BK)
41	DEF. HTR (BK)
42	DEF. HTR (BK)
43	DEF. HTR (BK)
44	DEF. HTR (BK)
45	DEF. HTR (BK)
46	DEF. HTR (BK)
47	DEF. HTR (BK)
48	DEF. HTR (BK)
49	DEF. HTR (BK)
50	DEF. HTR (BK)
51	DEF. HTR (BK)
52	DEF. HTR (BK)
53	DEF. HTR (BK)
54	DEF. HTR (BK)
55	DEF. HTR (BK)
56	DEF. HTR (BK)
57	DEF. HTR (BK)
58	DEF. HTR (BK)
59	DEF. HTR (BK)
60	DEF. HTR (BK)
61	DEF. HTR (BK)
62	DEF. HTR (BK)
63	DEF. HTR (BK)
64	DEF. HTR (BK)
65	DEF. HTR (BK)
66	DEF. HTR (BK)
67	DEF. HTR (BK)
68	DEF. HTR (BK)
69	DEF. HTR (BK)
70	DEF. HTR (BK)
71	DEF. HTR (BK)
72	DEF. HTR (BK)
73	DEF. HTR (BK)
74	DEF. HTR (BK)
75	DEF. HTR (BK)
76	DEF. HTR (BK)
77	DEF. HTR (BK)
78	DEF. HTR (BK)
79	DEF. HTR (BK)
80	DEF. HTR (BK)
81	DEF. HTR (BK)
82	DEF. HTR (BK)
83	DEF. HTR (BK)
84	DEF. HTR (BK)
85	DEF. HTR (BK)
86	DEF. HTR (BK)
87	DEF. HTR (BK)
88	DEF. HTR (BK)
89	DEF. HTR (BK)
90	DEF. HTR (BK)
91	DEF. HTR (BK)
92	DEF. HTR (BK)
93	DEF. HTR (BK)
94	DEF. HTR (BK)
95	DEF. HTR (BK)
96	DEF. HTR (BK)
97	DEF. HTR (BK)
98	DEF. HTR (BK)
99	DEF. HTR (BK)
100	DEF. HTR (BK)

- NOTES:
1. CONTROLLER CONFIGURED FOR ELECTRIC DEFROST.
  2. AIR PROBE (T1), EVAPORATOR PROBE (T2) & INSERTION PROBE (T3) OK CHM NTC TYPE (SNAK.).
  3. DEF. HTR FLUXION - OPENS ~20°C / RESETS ~12°C.
  4. CABLE NUMBERS
  5. TERMINAL NUMBERS
  6. ALL CABLE LOOPS UNLESS OTHERWISE STATED.
  7. CABLE COLOUR CODE:  
BR - BROWN  
BL - BLUE  
RD - RED  
GY - GREEN / YELLOW  
BK - BLACK  
WH - WHITE  
CY - CYAN  
MD - MODEL DEPENDANT COLOUR
  8. ALL PROTECTIVE EARTH WIRING TO BE GREEN/YELLOW.
  9. CIRCUIT SHOWN DE-ENERGISED.

REV. 01

REV.	RS-485 OPTION	DETAIL	ADDED	MD	REVISED	BY	DATE
01	RS-485 OPTION	ADDED	MD	REVISED	BY	DATE	

WIRING DIAGRAM  
FOSTER BCF136 / BCF151  
BLAST CHILLER / FREEZER MODELS  
FC1-11 CONTROLLER VERSION  
REMOTE CONFIGURATION

FOSTER REFRIGERATOR (U.K) LTD  
OLDMEADOW ROAD KING'S LYNN NORFOLK PE30 4TU

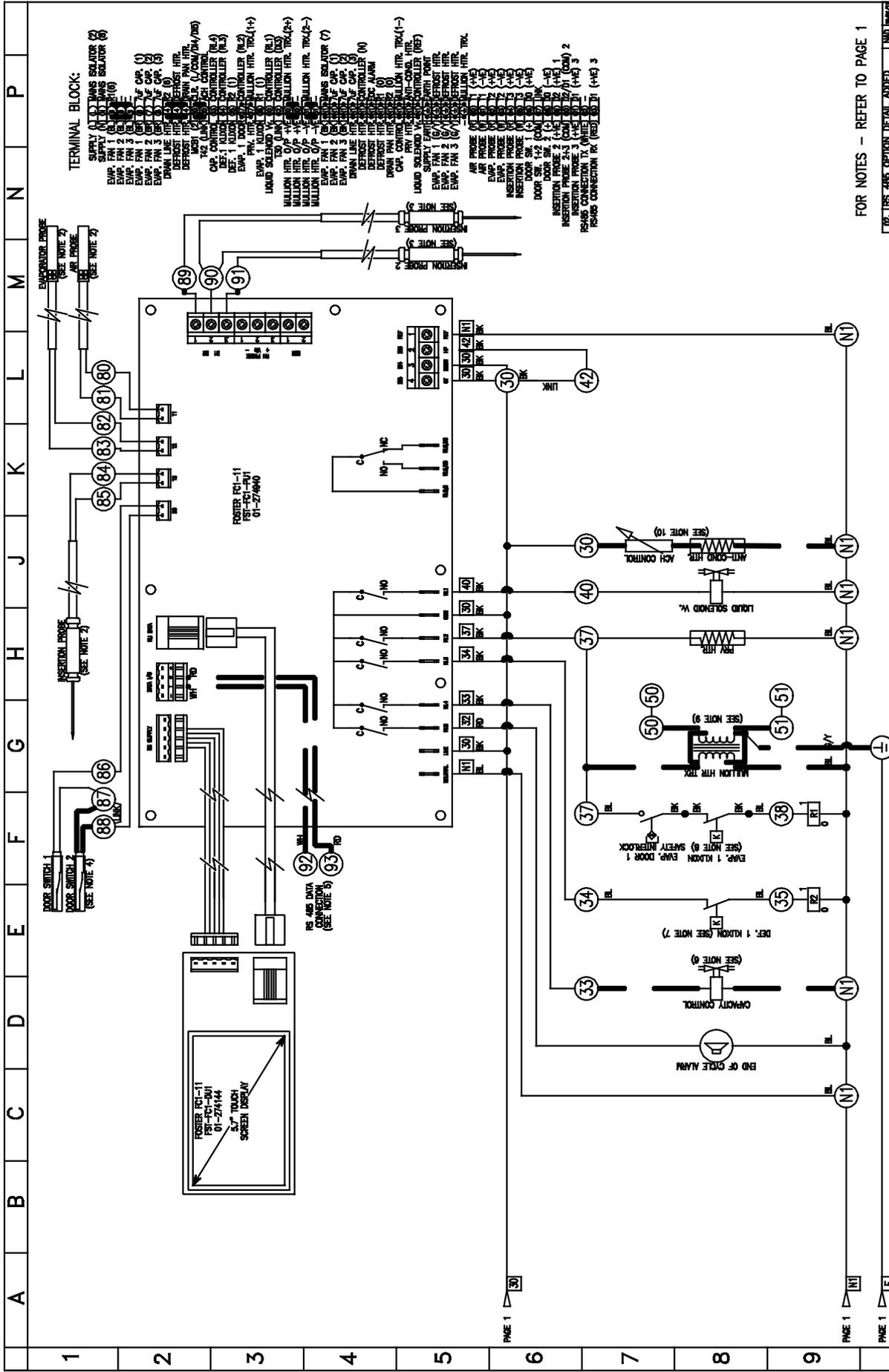
**CUSTOMER COPY**











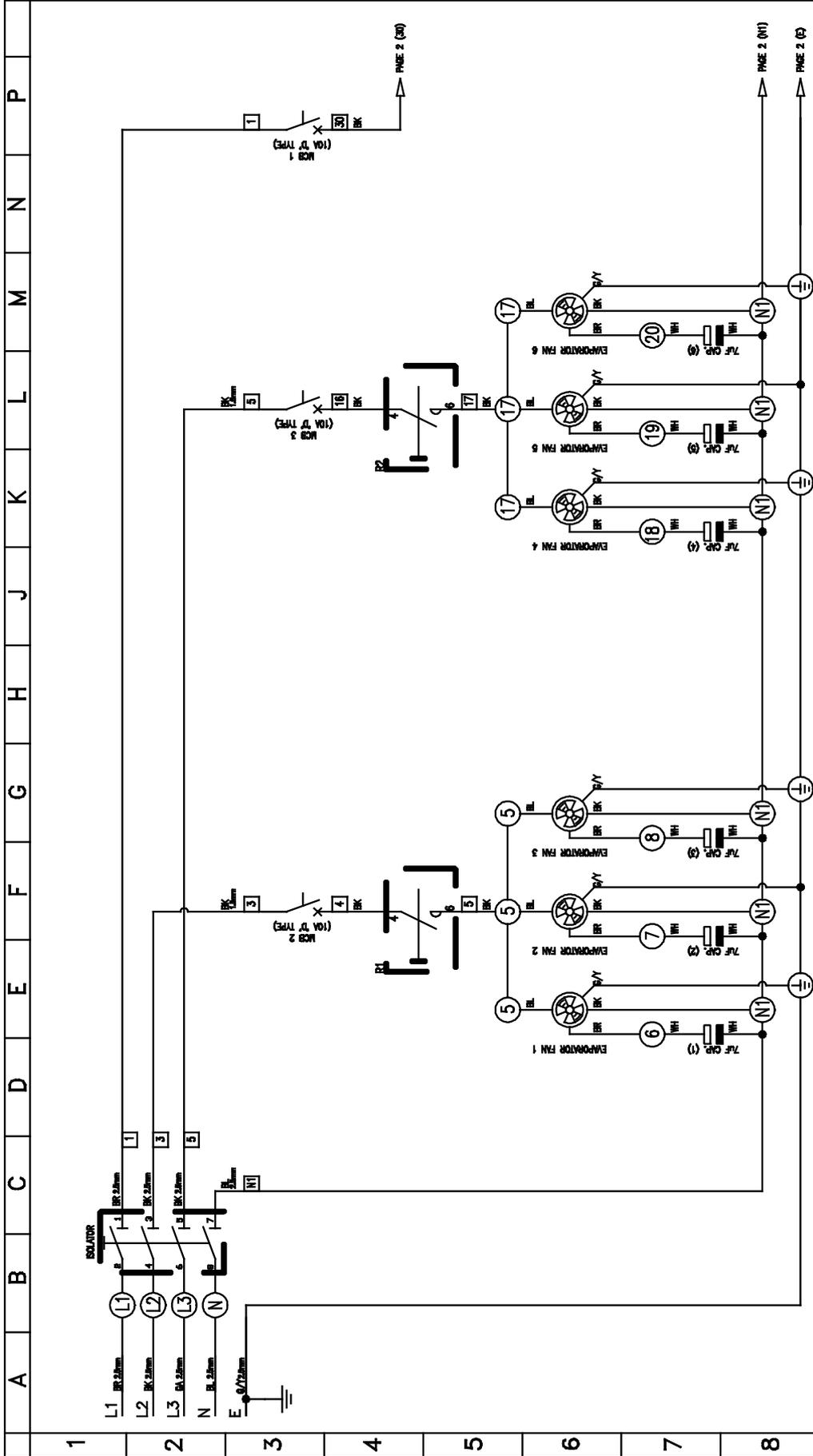
FOR NOTES - REFER TO PAGE 1

REV	DESCRIPTION	ADD. INFO	BY	DATE
01	TRF. 485. OPTION DETAIL			
02				

**FOSTER**  
 WIRING DIAGRAM  
 FOSTER MBCFT75/100/150  
 BLAST CHILLER / FREEZER MODELS  
 FCI-11 CONTROLLER VERSION  
 REMOTE CONFIGURATION

**CUSTOMER COPY**

Wiring Diagram – MBCT250 (Remote) (1 of 2)



NOTES:

1. CONTROLLER CONFIGURED FOR THER OFF CYCLE DEFROST.
2. PH PHASE (T1), BLUE WINDING PHASE (T2) & PHASE (T3).
3. OPTIONAL INSERTION (T1 PHASES 2 AND 3) (T2 PHASE).
4. DOOR SWITCH 2 (ONLY FITTED ON "WALL THRU" MODELS).
5. LINK BETWEEN T07 / T08 REMOVED.
6. RS 485 DATA CONNECTION – T02 (N1) TX / T03 (N0) RX.
7. CAPACITY CONTROL OPTION CONFIGURED IN PARAMETERS.

8. EMP. SAFETY MOUNT 1 & 2 – OPENS –60°C / RESETS +35°C.
9. OPTIONAL MOUNT WITH TRANSFORMER SPECS TO APPLICATION.
10. APPLICATION (NORMALLY CALLED PHEN. ROOM ENVIRONMENT).
11. CABLE NUMBER: 00.
12. ALL CABLE LITERS UNLESS OTHERWISE STATED.
13. CIRCUIT SHOWN DE-ENERGISED.

14. CABLE COLOUR CODE:  
 BK – BLACK  
 BK/Y – BLACK / YELLOW  
 GR – GREEN  
 GR/Y – GREEN / YELLOW  
 WH – WHITE  
 WH/Y – WHITE / YELLOW  
 LD – MODEL DEPENDANT COLOUR
15. ALL PROTECTIVE EARTH WIRING TO BE GREEN/YELLOW.

FOR TERMINAL BLOCK – REFER TO PAGE 2

REV	DESCRIPTION	BY	DATE
01	RS 485 OPTION DETAIL ADDED		06/07/12

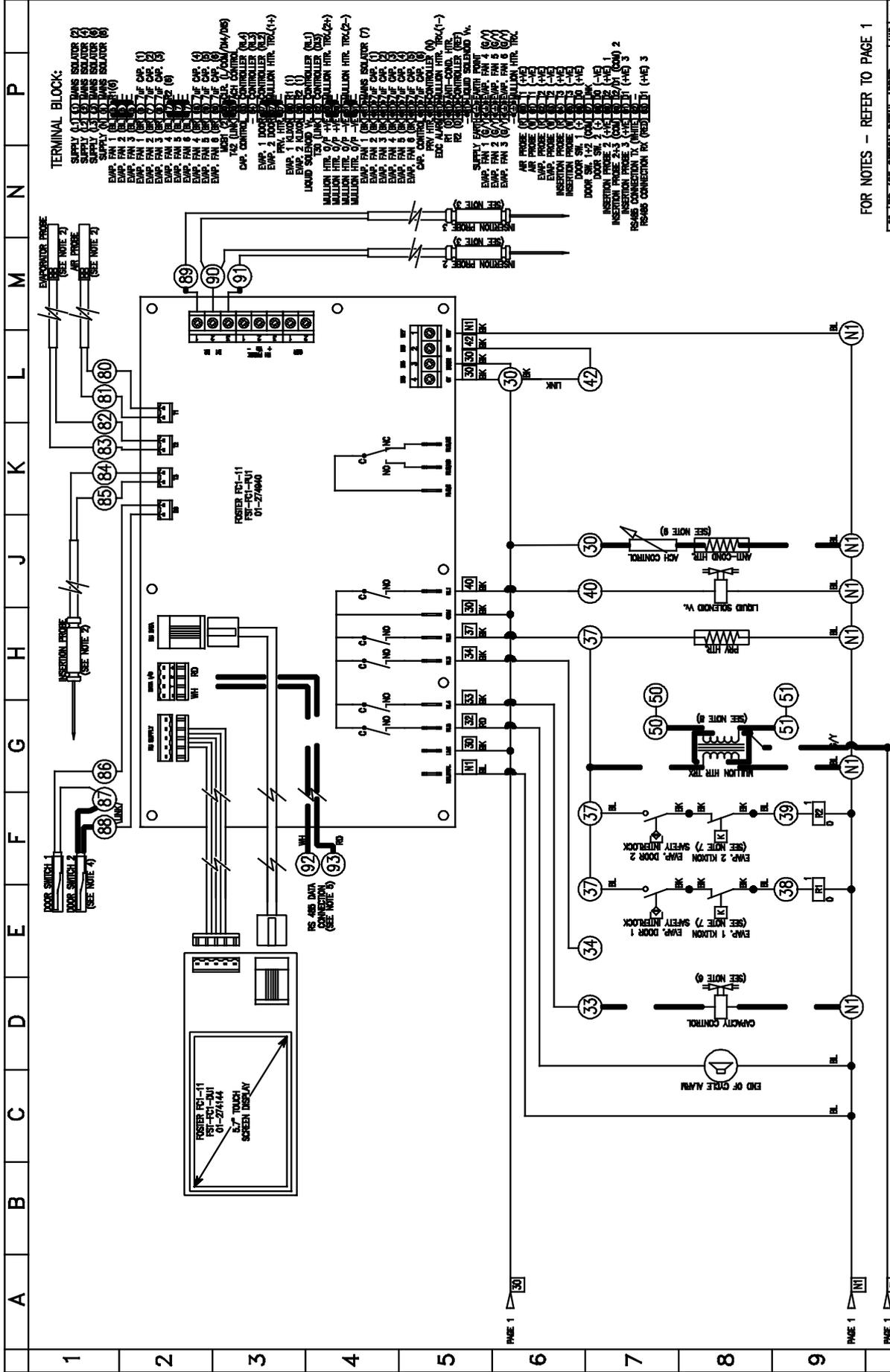
**FOSTER REFRIGERATOR (U.K) LTD**  
 CHASWOOD ROAD KING'S LYNN NORFOLK PE30 4JY

DRAWING NUMBER <b>FOSTER MECT 250</b> BLAST CHILLER MODEL	01-275560-00-02 SHEET 1 OF 2 DATE: 07/06/12 DRAWN BY: JMS
---	--

REMOTE CONFIGURATION  
 CHASWOOD ROAD KING'S LYNN NORFOLK PE30 4JY

CUSTOMER COPY

Wiring Diagram – MBCT250 (Remote) (2 of 2)



- TERMINAL BLOCK:**
- SUPPLY (1) TRANS ISOLATOR (2)
  - SUPPLY (3) TRANS ISOLATOR (4)
  - SUPPLY (5) TRANS ISOLATOR (6)
  - SUPPLY (7) TRANS ISOLATOR (8)
  - SUPPLY (9) TRANS ISOLATOR (10)
  - EMV. FAN 1 (11) CAP (12)
  - EMV. FAN 2 (13) CAP (14)
  - EMV. FAN 3 (15) CAP (16)
  - EMV. FAN 4 (17) CAP (18)
  - EMV. FAN 5 (19) CAP (20)
  - EMV. FAN 6 (21) CAP (22)
  - EMV. FAN 7 (23) CAP (24)
  - EMV. FAN 8 (25) CAP (26)
  - EMV. FAN 9 (27) CAP (28)
  - EMV. FAN 10 (29) CAP (30)
  - EMV. FAN 11 (31) CAP (32)
  - EMV. FAN 12 (33) CAP (34)
  - EMV. FAN 13 (35) CAP (36)
  - EMV. FAN 14 (37) CAP (38)
  - EMV. FAN 15 (39) CAP (40)
  - EMV. FAN 16 (41) CAP (42)
  - EMV. FAN 17 (43) CAP (44)
  - EMV. FAN 18 (45) CAP (46)
  - EMV. FAN 19 (47) CAP (48)
  - EMV. FAN 20 (49) CAP (50)
  - EMV. FAN 21 (51) CAP (52)
  - EMV. FAN 22 (53) CAP (54)
  - EMV. FAN 23 (55) CAP (56)
  - EMV. FAN 24 (57) CAP (58)
  - EMV. FAN 25 (59) CAP (60)
  - EMV. FAN 26 (61) CAP (62)
  - EMV. FAN 27 (63) CAP (64)
  - EMV. FAN 28 (65) CAP (66)
  - EMV. FAN 29 (67) CAP (68)
  - EMV. FAN 30 (69) CAP (70)
  - EMV. FAN 31 (71) CAP (72)
  - EMV. FAN 32 (73) CAP (74)
  - EMV. FAN 33 (75) CAP (76)
  - EMV. FAN 34 (77) CAP (78)
  - EMV. FAN 35 (79) CAP (80)
  - EMV. FAN 36 (81) CAP (82)
  - EMV. FAN 37 (83) CAP (84)
  - EMV. FAN 38 (85) CAP (86)
  - EMV. FAN 39 (87) CAP (88)
  - EMV. FAN 40 (89) CAP (90)
  - EMV. FAN 41 (91) CAP (92)
  - EMV. FAN 42 (93) CAP (94)
  - EMV. FAN 43 (95) CAP (96)
  - EMV. FAN 44 (97) CAP (98)
  - EMV. FAN 45 (99) CAP (100)
  - EMV. FAN 46 (101) CAP (102)
  - EMV. FAN 47 (103) CAP (104)
  - EMV. FAN 48 (105) CAP (106)
  - EMV. FAN 49 (107) CAP (108)
  - EMV. FAN 50 (109) CAP (110)
  - EMV. FAN 51 (111) CAP (112)
  - EMV. FAN 52 (113) CAP (114)
  - EMV. FAN 53 (115) CAP (116)
  - EMV. FAN 54 (117) CAP (118)
  - EMV. FAN 55 (119) CAP (120)
  - EMV. FAN 56 (121) CAP (122)
  - EMV. FAN 57 (123) CAP (124)
  - EMV. FAN 58 (125) CAP (126)
  - EMV. FAN 59 (127) CAP (128)
  - EMV. FAN 60 (129) CAP (130)
  - EMV. FAN 61 (131) CAP (132)
  - EMV. FAN 62 (133) CAP (134)
  - EMV. FAN 63 (135) CAP (136)
  - EMV. FAN 64 (137) CAP (138)
  - EMV. FAN 65 (139) CAP (140)
  - EMV. FAN 66 (141) CAP (142)
  - EMV. FAN 67 (143) CAP (144)
  - EMV. FAN 68 (145) CAP (146)
  - EMV. FAN 69 (147) CAP (148)
  - EMV. FAN 70 (149) CAP (150)
  - EMV. FAN 71 (151) CAP (152)
  - EMV. FAN 72 (153) CAP (154)
  - EMV. FAN 73 (155) CAP (156)
  - EMV. FAN 74 (157) CAP (158)
  - EMV. FAN 75 (159) CAP (160)
  - EMV. FAN 76 (161) CAP (162)
  - EMV. FAN 77 (163) CAP (164)
  - EMV. FAN 78 (165) CAP (166)
  - EMV. FAN 79 (167) CAP (168)
  - EMV. FAN 80 (169) CAP (170)
  - EMV. FAN 81 (171) CAP (172)
  - EMV. FAN 82 (173) CAP (174)
  - EMV. FAN 83 (175) CAP (176)
  - EMV. FAN 84 (177) CAP (178)
  - EMV. FAN 85 (179) CAP (180)
  - EMV. FAN 86 (181) CAP (182)
  - EMV. FAN 87 (183) CAP (184)
  - EMV. FAN 88 (185) CAP (186)
  - EMV. FAN 89 (187) CAP (188)
  - EMV. FAN 90 (189) CAP (190)
  - EMV. FAN 91 (191) CAP (192)
  - EMV. FAN 92 (193) CAP (194)
  - EMV. FAN 93 (195) CAP (196)
  - EMV. FAN 94 (197) CAP (198)
  - EMV. FAN 95 (199) CAP (200)
  - EMV. FAN 96 (201) CAP (202)
  - EMV. FAN 97 (203) CAP (204)
  - EMV. FAN 98 (205) CAP (206)
  - EMV. FAN 99 (207) CAP (208)
  - EMV. FAN 100 (209) CAP (210)
  - EMV. FAN 101 (211) CAP (212)
  - EMV. FAN 102 (213) CAP (214)
  - EMV. FAN 103 (215) CAP (216)
  - EMV. FAN 104 (217) CAP (218)
  - EMV. FAN 105 (219) CAP (220)
  - EMV. FAN 106 (221) CAP (222)
  - EMV. FAN 107 (223) CAP (224)
  - EMV. FAN 108 (225) CAP (226)
  - EMV. FAN 109 (227) CAP (228)
  - EMV. FAN 110 (229) CAP (230)
  - EMV. FAN 111 (231) CAP (232)
  - EMV. FAN 112 (233) CAP (234)
  - EMV. FAN 113 (235) CAP (236)
  - EMV. FAN 114 (237) CAP (238)
  - EMV. FAN 115 (239) CAP (240)
  - EMV. FAN 116 (241) CAP (242)
  - EMV. FAN 117 (243) CAP (244)
  - EMV. FAN 118 (245) CAP (246)
  - EMV. FAN 119 (247) CAP (248)
  - EMV. FAN 120 (249) CAP (250)

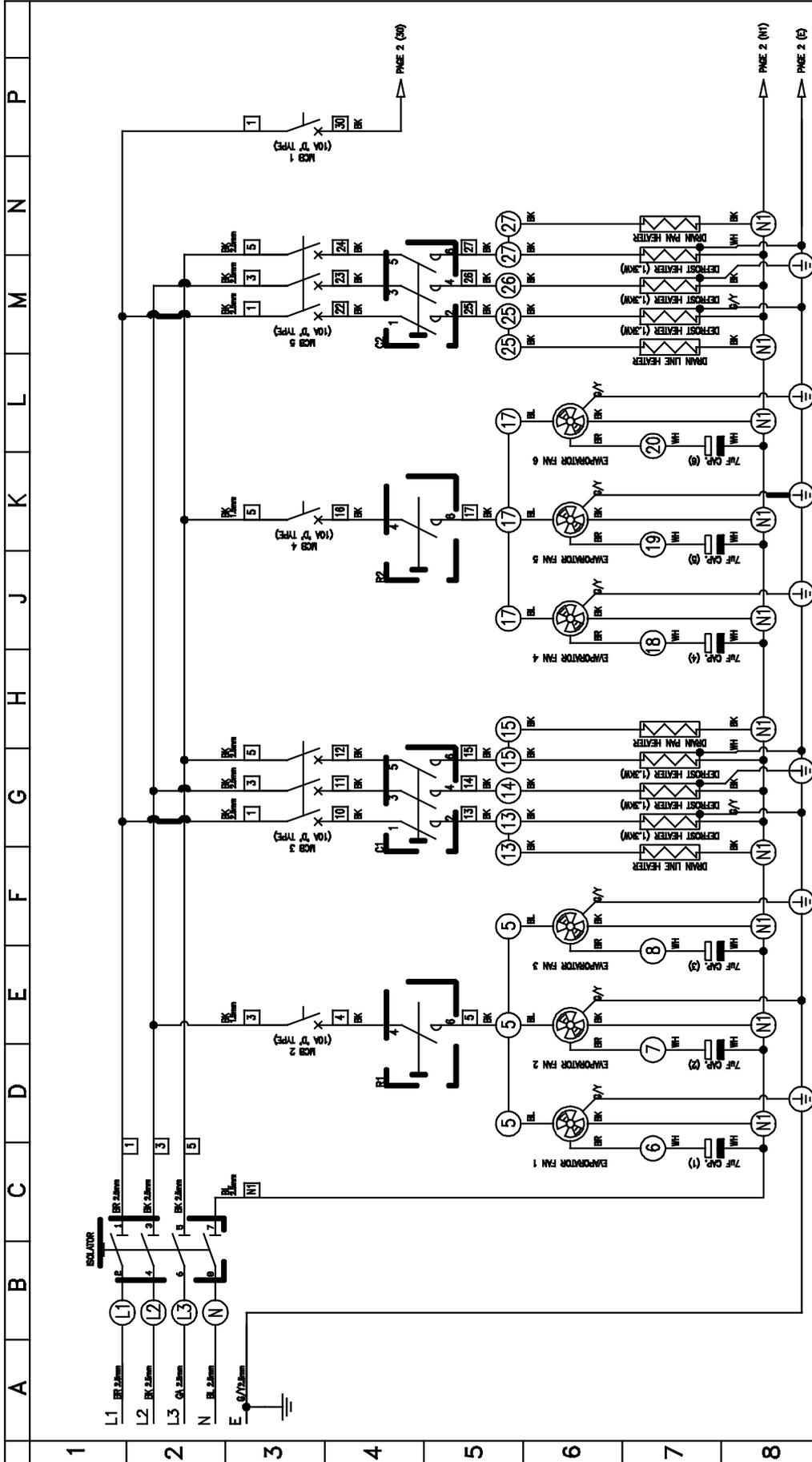
FOR NOTES – REFER TO PAGE 1

REV.	DESCRIPTION	DATE
02	IRS 2485 OPTION METAL ADDED	19/06/12

WIRING DIAGRAM  
**FOSTER REFRIGERATOR (U.K.) LTD**  
 FOSTER MBCT 250  
 BLAST CHILLER MODEL  
 FCI-11 CONTROLLER VERSION  
 REMOTE CONFIGURATION

**CUSTOMER COPY**

Wiring Diagram – MBCFT250 (Remote) (1 of 2)



NOTES:

1. CONTROLLER CONFIGURED FOR ELECTRIC DEFROST.
2. ARC PROBE (T1), EVAPORATOR PROBE (T2) & INSERTION PROBE (T3) 10K-40K NTC TYPE (SHAK...)
3. OPTIONAL INSERTION PROBES 2 AND 3 (T4 / T5) 10K-40K NTC TYPE (SHAK...)
4. DOOR SWITCH 2 ONLY FITTED ON 'HOLL THRU' MODELS. LINK BETWEEN T67 / T68 REMOVED.
5. RS 485 DATA CONNECTION – T92 (M) T4 / T83 (M) R/L.
6. CAPACITY CONTROL OPTION CONFIGURED IN PARAMETERS.
7. DEF. HTR. KUXON 1 & 2 – OPENS -20°C / RESETS +12°C.
8. EWR SAFETY KUXON 1 & 2 – OPENS -80°C / RESETS +35°C.
9. OPTIONAL MALLON HTR TRANSFORMER SPECIFIC TO APPLICATION.
10. OPTIONAL ART CONDENSATION HEATER & CONTROL SPECIFIC TO APPLICATION (NORMALLY CALLED PREP. ROOM ENVIRONMENT).
11. CABLE NUMBER: ①
12. TERMINAL NUMBER: ②
13. ALL CABLE 1.0mm<sup>2</sup> UNLESS OTHERWISE STATED.
14. CABLE COLOUR CODE:  
 BRN - BROWN  
 BLU - BLUE  
 GRN - GREEN / YELLOW  
 RED - RED  
 BK - BLACK  
 WH - WHITE  
 YL - YELLOW  
 GR - GREEN  
 PUR - PURPLE  
 DEP - DEPENDANT COLOUR  
 N/A - NOT APPLICABLE  
 15. ALL PROTECTIVE EARTH WIRING TO BE GREEN/YELLOW.  
 16. CIRCUIT SHOWN DE-ENERGISED.

# CUSTOMER COPY

FOR TERMINAL BLOCK – REFER TO PAGE 2

WIRING DIAGRAM  
 FOSTER REFRIGERATOR (U.K) LTD  
 GOSWICK ROAD KING'S CROSS NORWICH NR99 4JY

REV: 01-27/5561-00-02  
 SHEET NO. 2 OF 2  
 NAD NTS 07/06/12

DESCRIPTION: FOSTER 250 BLAST CHILLER / FREEZER MODEL  
 FC-11 CONTROLLER VERSION  
 REMOTE CONFIGURATION

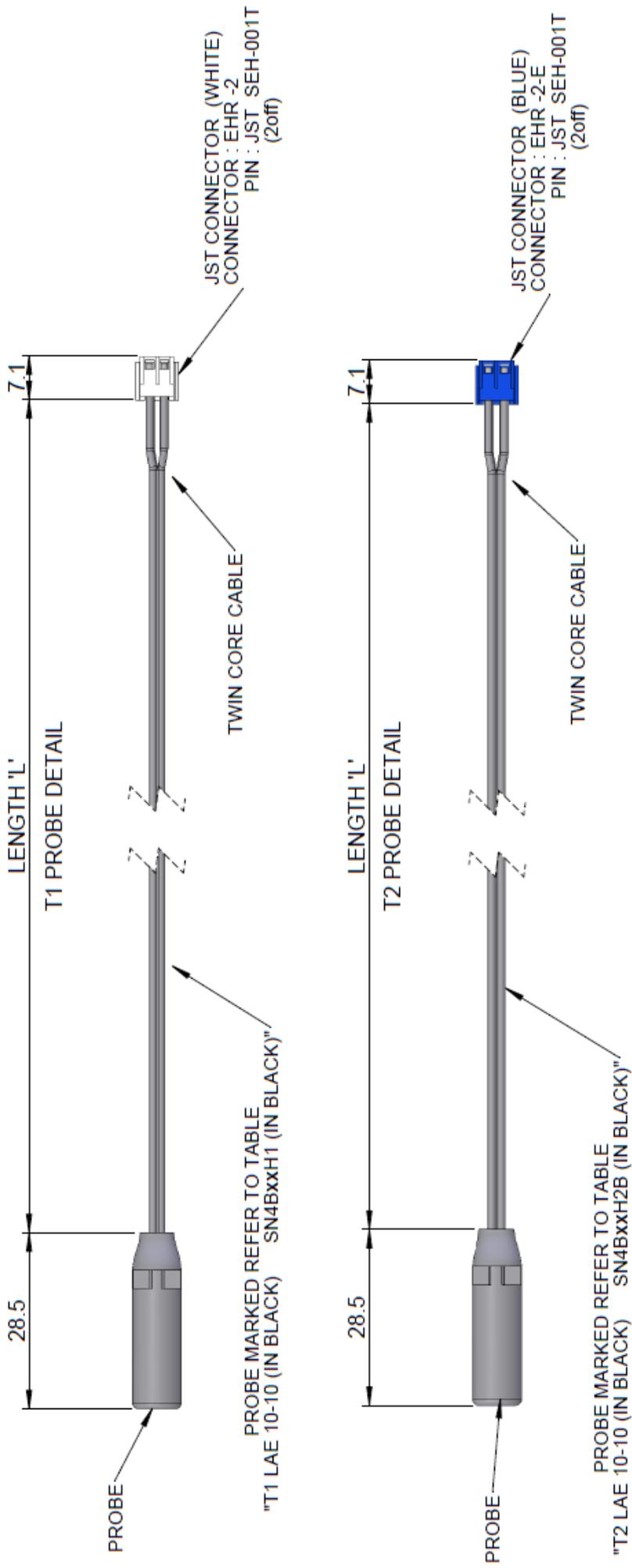
A B C D E F G H J K L M N P

1 2 3 4 5 6 7 8 9 10

PAGE 2 (OF)  
 PAGE 2 (OF)



Air and Evaporator Probe Details / Diagram





Foster European Operations

France

Foster Refrigerator France SA

Tel: (33) 01 34 30 22 22. Fax: (33) 01 30 37 68 74.

Email: [info@foster-fr.com](mailto:info@foster-fr.com)

Germany

Foster Refrigerator GmbH,

Tel: (49) 781 990 7840. Fax (49) 781 990 7844.

Email: [info@foster-gmbh.de](mailto:info@foster-gmbh.de)

Foster Refrigerator

Oldmedow Road

Kings Lynn

Norfolk

PE30 4JU

Tel: 0843 216 8833

Fax: 0843 216 4707

Website: [www.fosterrefrigerator.co.uk](http://www.fosterrefrigerator.co.uk)

Email: [support@foster-uk.com](mailto:support@foster-uk.com)

a Division of 'ITW (UK) Ltd'

BC/F/MBC/F FC1-11/WDSM0 2/13 GB