



TRAULSEN TECHNICAL BULLETIN

PRODUCT SERVICE DEPARTMENT

FORT WORTH, TX 76137

DANFOSS CONTROL

Introduction:

This technical bulletin is to inform the field of the function of the Danfoss electronic control. This control is found on Traulsen compact refrigerator, freezer, prep table, and milk cooler units.

Danfoss control parameters:

COMPACT FREEZER (ULT)

SET POINT RANGE:	-10 to +5 F
SET POINT:	-3.0 F
DEFROST TYPE:	ELECTRIC
DEFROST TERM:	35.06 F
MIN DEF INTERVAL:	3.0 HOURS
MAX DEF INTERVAL:	4.0 HOURS
DEFROST TIME:	15 MIN MINIMUM 35 MIN MIAXIMUM
COMPRESSOR ON:	
FAN ON DELAY;	30 SEC
COMPRESSOR OFF:	
FAN OFF DELAY:	0.0 SEC
FAN ON:	5 SEC
FAN OFF:	55 SEC
DEFROST:	EVAP FAN OFF
DRIP OFF TIME:	1 MIN
FAN DELAY AFTER DEF:	3 MIN

COMPACT REFRIGERATOR (UHT)

SET POINT RANGE:	29 to 37 F
SET POINT:	32.0 F
DEFROST TYPE:	OFF CYCLE
DEFROST TERM:	39.9 F
MIN DEF INTERVAL:	2 HOURS
MAX DEF INTERVAL:	3 HOURS
DEFROST TIME:	20 MIN MINIMUM 45 MIN MAXIMUM
COMPRESSOR ON:	
FAN ON DELAY;	30 SEC
COMPRESSOR OFF:	
FAN OFF DELAY:	45 SEC
FAN ON:	5 SEC
FAN OFF:	55 SEC
DEFROST:	EVAP FAN ON
DRIP OFF TIME:	0.0 SEC
FAN DELAY AFTER DEF:	0.0 SEC

MILK COOLER

SET POINT RANGE:	30 to 38 F
SET POINT:	32.0 F
DEFROST TYPE:	OFF CYCLE
DEFROST TERM:	39.9 F
MIN DEF INTERVAL:	2 HOURS
MAX DEF INTERVAL:	3 HOURS
DEFROST TIME:	20 MIN MINIMUM 45 MIN MAXIMUM
COMPRESSOR ON:	
FAN ON DELAY;	30 SEC
COMPRESSOR OFF:	
FAN OFF DELAY:	45 SEC
FAN ON:	5 SEC
FAN OFF:	55 SEC
DEFROST:	EVAP FAN ON
DRIP OFF TIME:	0.0 SEC
FAN DELAY AFTER DEF:	0.0 SEC

PREP TABLE (UPT & UST)

SET POINT RANGE:	29 to 37 F
SET POINT:	32.0 F
DEFROST TYPE:	OFF CYCLE
DEFROST TERM:	39.9 F
MIN DEF INTERVAL:	2 HOURS
MAX DEF INTERVAL:	3 HOURS
DEFROST TIME:	20 MIN MINIMUM 45 MIN MAXIMUM
COMPRESSOR ON:	
FAN ON DELAY;	EVAP FAN ALWAYS ON
COMPRESSOR OFF:	
FAN OFF DELAY:	EVAP FAN ALWAYS ON
FAN ON:	EVAP FAN ALWAYS ON
FAN OFF:	EVAP FAN ALWAYS ON
DEFROST:	EVAP FAN ALWAYS ON
DRIP OFF TIME:	EVAP FAN ALWAYS ON
FAN DELAY AFTER DEF:	EVAP FAN ALWAYS ON



TW Food Equipment Group

ALL UH,UL, UST,
UPT, RMC MODELS
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DAFOSS SENSOR OHM VALUES

Sensor	Temperature	Ohm value
Cabinet sensor (S1)	32 Degrees	16.00 Ω
Coil Sensor (S2)	32 Degrees	16.00 Ω
Spindle (S3)	N/A	30-4k Ω (slight tolerance)

Note: If the red light starts flashing on the Danfoss controller that means that there is a sensor failure.

To start manual defrost:

1. Turn unit off and make sure the spindle is all the way in the left position.
2. Turn unit on and wait for the blower to come on.
3. Turn spindle all the way to the right position for 3 seconds (Mississippi).
4. Turn spindle all the way to the left position for 3 seconds (Mississippi).
5. Turn to the middle position and wait for unit to go into manual defrost.

Contact Traulsen Technical Service:

If further assistance is needed feel free to contact Traulsen Technical Service at 800-825-8220 between the hours of 7:30am – 11:30am CST & 12:30pm – 4:30pm CST.