

ITTA CARATTERISTICHE TECNICHE

Technical specifications table with columns: feature, value, and notes. Includes sections for alarm features, relay configurations, and connection details.

NORMATIVE DI SICUREZZA: conforme alle Normative europee in materia. Precauzioni d'installazione: i cavi di collegamento devono garantire l'isolamento fino a 90°C.

ENG TECHNICAL SPECIFICATIONS

Technical specifications table in English, mirroring the Italian version, covering alarm, relay, and connection parameters.

SAFETY STANDARD: in compliance with the European laws. Installation precautions: connection cables should be suitable for 90°C operation.

GER TECHNISCHE DATEN

Technical specifications table in German, detailing alarm, relay, and connection specifications.

Dimensioni (mm) / Dimensions (mm)

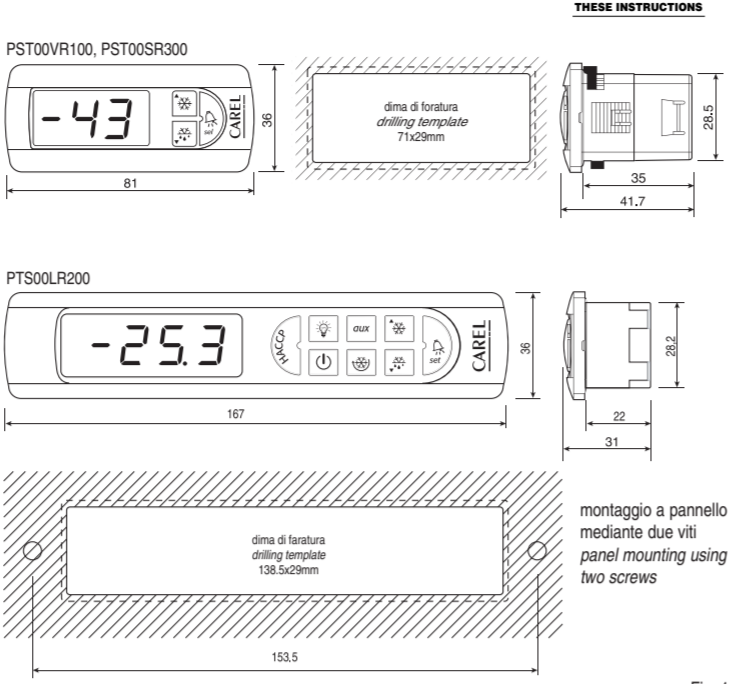


Fig. 1

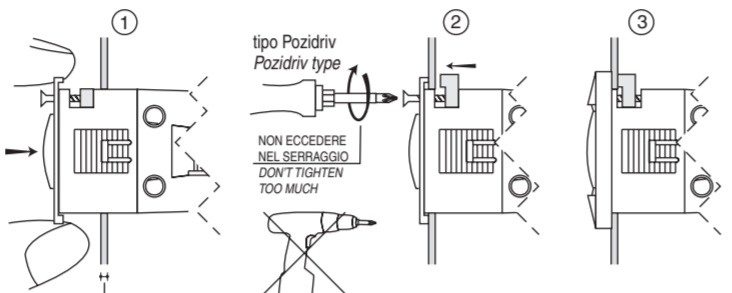


Fig. 2

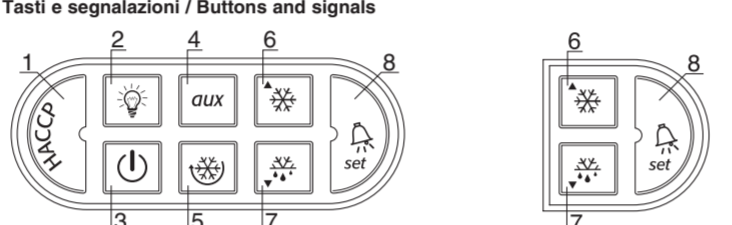


Fig. 3a Fig. 3b

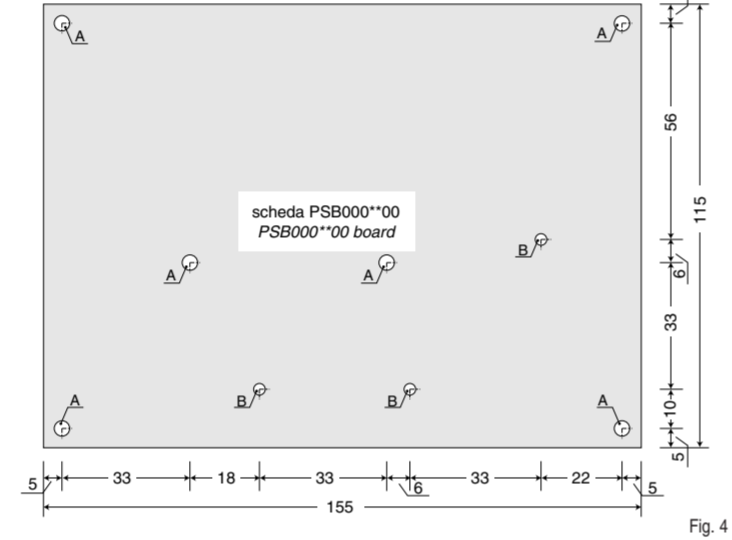


Fig. 4

Nota: For diametro 4 mm per fissaggio scheda mediante distanziali plastici. Punti B di appoggio per sostegno scheda inserimento connessioni FASTON.

Warning: Holes A with 4mm diameter for panel fastening using plastic spacers. Bearing holes B for supporting the FASTON connection insertion board.



Fig. 5

ITTA Vi ringraziamo per la scelta fatta, sicuri che sarete soddisfatti del vostro acquisto.

VISUALIZZAZIONE

Il controllo PSB può utilizzare un terminale PST (Large o Small) e/o un visualizzatore PST per segnalare lo stato di funzionamento e permettere le impostazioni dei parametri del controllo.

ALLARMI E SEGNALEZIONI

Table listing alarm and signal codes (E1-E7, IA, IA, IA, IA, IA, IA, IA, IA) and their descriptions, such as 'mancanza comunicazione seriale con il terminale'.

Nota: solo per controllo PSB configurato come unità Master e con RTC

INDICAZIONI DI FUNZIONAMENTO SULLA TASTIERA E COMANDI SU TASTO

Su terminale PST Large (vedi fig. 3a): 1 Segnalazione e reset per HACCP (LED rosso); 2 Segnalazione e attivazione LUCE (LED giallo); 3 Segnalazione e attivazione ON/OFF (LED verde); 4 Segnalazione e attivazione AUX (LED giallo); 5 Segnalazione e attivazione CICLO-CONTINUO (LED rosso); 6 Segnalazione e attivazione DEFROST (LED verde); 7 Segnalazione e attivazione ALLARME (LED rosso).

SET-POINT (valore di temperatura desiderato)

- 1) Premendo il tasto SET per un secondo compare il parametro Set-Point (SP); 2) premere nuovamente SET per visualizzare il valore; 3) con i tasti UP o DOWN incrementare o decrementare il valore;

SBRINAMENTO MANUALE

Oltre allo sbrinatorio automatico è possibile attivare uno sbrinatorio manuale se esistono le condizioni di temperatura premendo il tasto per 5 secondi.

TASTO DI ON/OFF

Premendo questo tasto per 5 secondi si può attivare/disattivare il controllo. Quando il controllo è disattivato si trova in stato di stand-by, quindi, per poter eseguire manutenzione sull'apparato è necessario togliere tensione.

FUNZIONE HACCP

Questo controllo è conforme alle Normative HACCP in vigore, in quanto permette il monitoraggio continuo della temperatura del cibo conservato, segnalando eventuali superamenti delle soglie massime di temperatura e di tempo consentite.

ACCESSO E MODIFICA PARAMETRI FREQUENTI (TIPO F)

- 1) premendo il tasto per 5 secondi il display compare PS (in caso di allarme, tacitare prima il buzzer); 2) con i tasti scendere i parametri fino a raggiungere quello di cui si vuole modificare il valore;

Memorizzazione dei nuovi valori

premere il tasto per almeno 5 secondi per memorizzare il nuovo valore e uscire dalla procedura di "MODIFICA PARAMETRI". Non spegnere il controllo e attendere almeno un minuto per la memorizzazione effettiva.

TABELLA PARAMETRI TIPO F

Table listing parameters (PS, AH, AL, dB, dd, di, dt, F1, Fd, rL, rL, rL) with columns for parameter, type, min, max, U.M., Def, and Value.

ACCESSO E MODIFICA PARAMETRI DI CONFIGURAZIONE (TIPO C)

È necessario la PASSWORD di accesso (22).

- 1) premendo il tasto per 5 secondi il display compare PS (in caso di allarme, tacitare prima il buzzer); 2) premere il tasto poi con i tasti selezionare il valore 22 (PASSWORD);

TABELLA PARAMETRI TIPO C

Table listing configuration parameters (r2, r4, r7, rI) with columns for parameter, type, min, max, U.M., Def, and Value.

parametro

Main parameter table with columns: parametro, Tipo, Min, Max, U.M., Def, and Valore. Includes sections for digital input configuration (A4, A5) and relay output configuration (AUX1, AUX2).

Thank you for your choice. We trust you will be satisfied with your purchase.

DISPLAY
The PSB controller can use a PST terminal (Large or Small) and/or a PST display to signal the operating status and allows setting the controller parameters. As well, it is possible to set it so as it doesn't use any terminal or display. In normal operating conditions, in accordance with the configuration of the parameters A, I, 7, 14, the temperatures of the present probes are displayed. In alarm conditions, the temperature flashes alternating the codes of the present alarms.

Table with 2 columns: Alarm code, Description. Lists various alarm codes like E0, CN, E1, E2, etc. and their corresponding descriptions.

Note: only for the PSB controller configured as Master and with RTC

INDICATION ON THE DISPLAY AND BUTTON COMMANDS
On terminal PST Large (see fig. 3a);
1 HACCPC signal and reset (red LED); button pressed for 5 seconds;
2 LIGHT signal and activation (yellow LED); button pressed for 1 second;
3 ON/OFF signal and activation (green LED); button pressed for 5 seconds;
4 AUX signal and activation (yellow LED); button pressed for 1 second;
5 CONTINUOUS-CYCLE signal and activation (green LED); button pressed for 5 seconds;
6 Compressor ON signal (green LED); button pressed for 5 seconds;
7 DEFROST signal and activation (yellow LED); button pressed for 5 seconds;
8 ALARM signal and silencing (red LED); button pressed for 5 seconds;
9 ALARM signal and silencing (red LED); button pressed for 5 seconds;
10 ALARM signal and silencing (red LED); button pressed for 5 seconds;
11 ALARM signal and silencing (red LED); button pressed for 5 seconds;
12 ALARM signal and silencing (red LED); button pressed for 5 seconds;
13 ALARM signal and silencing (red LED); button pressed for 5 seconds;
14 ALARM signal and silencing (red LED); button pressed for 5 seconds;
15 ALARM signal and silencing (red LED); button pressed for 5 seconds;
16 ALARM signal and silencing (red LED); button pressed for 5 seconds;
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18 ALARM signal and silencing (red LED); button pressed for 5 seconds;
19 ALARM signal and silencing (red LED); button pressed for 5 seconds;
20 ALARM signal and silencing (red LED); button pressed for 5 seconds;
21 ALARM signal and silencing (red LED); button pressed for 5 seconds;
22 ALARM signal and silencing (red LED); button pressed for 5 seconds;
23 ALARM signal and silencing (red LED); button pressed for 5 seconds;
24 ALARM signal and silencing (red LED); button pressed for 5 seconds;
25 ALARM signal and silencing (red LED); button pressed for 5 seconds;
26 ALARM signal and silencing (red LED); button pressed for 5 seconds;
27 ALARM signal and silencing (red LED); button pressed for 5 seconds;
28 ALARM signal and silencing (red LED); button pressed for 5 seconds;
29 ALARM signal and silencing (red LED); button pressed for 5 seconds;
30 ALARM signal and silencing (red LED); button pressed for 5 seconds;
31 ALARM signal and silencing (red LED); button pressed for 5 seconds;
32 ALARM signal and silencing (red LED); button pressed for 5 seconds;
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50 ALARM signal and silencing (red LED); button pressed for 5 seconds;
51 ALARM signal and silencing (red LED); button pressed for 5 seconds;
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57 ALARM signal and silencing (red LED); button pressed for 5 seconds;
58 ALARM signal and silencing (red LED); button pressed for 5 seconds;
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87 ALARM signal and silencing (red LED); button pressed for 5 seconds;
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91 ALARM signal and silencing (red LED); button pressed for 5 seconds;
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93 ALARM signal and silencing (red LED); button pressed for 5 seconds;
94 ALARM signal and silencing (red LED); button pressed for 5 seconds;
95 ALARM signal and silencing (red LED); button pressed for 5 seconds;
96 ALARM signal and silencing (red LED); button pressed for 5 seconds;
97 ALARM signal and silencing (red LED); button pressed for 5 seconds;
98 ALARM signal and silencing (red LED); button pressed for 5 seconds;
99 ALARM signal and silencing (red LED); button pressed for 5 seconds;
100 ALARM signal and silencing (red LED); button pressed for 5 seconds;

SET-POINT
1) pressing the SET button for one second the parameter Set-Point (St) appears;
2) press SET once more to display the value; after few seconds this button flashes;
3) using the UP or DOWN buttons to increase or decrease the value;
4) pressing for 5 seconds to confirm the new value;
5) Press to temporarily confirm the new value, then display its code;

MANUAL DEFROST
Besides the automatic defrost, it is possible to activate a manual defrost, under the suitable temperature conditions, pressing for 5 seconds.

ON/OFF BUTTON
Pressing for 5 seconds, it is possible to activate/deactivate the controller. When the controller is deactivated it is in a stan-by condition, so, to be able to service the instrument it is necessary to turn it off.

HACCPC FUNCTION
This controller complies with the HACCPC Laws in force, since it allows the continuous monitoring of the temperature of the preserved food, signalling any overrunning of the temperature and time maximum allowed thresholds (HA), besides the time indication (day - hour - min.).
This function works even without power supply and, in this case, the alarm is signalled with the HF code. This alarm is set using the parameters AH, Ad and tr (Ad+tr= HACCPC activation alarm delay).

ACCESS AND MODIFICATION OF THE FREQUENT PARAMETERS (F TYPE)

- 1) pressing for 5 seconds PS is displayed (in case of alarm, first silence the buzzer);
2) using or to look through the parameters up to reaching the one whose value has to be modified;
3) press SET once more to display the value; after few seconds this button flashes;
4) use or to modify its value;
5) Press to temporarily confirm the new value, then display its code;

To exit modifying the parameters with the new values: press at least 5 seconds to confirm the new values and exit the "PARAMETERS MODIFICATION" procedure.
Do not switch off the controller: wait for at least one minute for the real storage.
For limiting parameters only: switch off and switch on the controller in order to make them immediately effective (without waiting for the following cycle).
To exit without modifying any parameter: do not press any button for at least 60 seconds (TIME OUT).

LIST OF PARAMETERS TYPE F

Table with 7 columns: Parameter, Type, Min, Max, U.M., Def, Value. Lists parameters like PS PASSWORD, AH High temperature alarm, AL Low temperature alarm, dd Dripping time, dt Interval between defrost cycles, dP Max/real defrost duration, dt End defrost temperature, F1 Fan start-up temperature, Fd Fan OFF after dripping, rd Regulator differential (hysteresis), rH max. temp. measured during <rt> resolution 0.1°C, rL min. temp. measured during <rt> resolution 0.1°C, rt real interval for temperature monitoring.

ACCESS AND MODIFICATION OF THE CONFIGURATION PARAMETERS (C TYPE)

- 1) pressing for 5 seconds PS is displayed (in case of alarm, first silence the buzzer);
2) Press and then or until 22 is displayed (PASSWORD); press to confirm;
3) using or to look through the parameters up to reaching the one whose value has to be modified;
4) press to display the associated value;
5) using or to modify its value;
6) Press to temporarily confirm the new value and display its code;

To exit modifying the parameters with the new values: press at least 5 seconds to confirm the new values and exit the "PARAMETERS MODIFICATION" procedure.
Do not switch off the controller: wait for at least one minute for the real storage.
For limiting parameters only: switch off and switch on the controller in order to make them immediately effective (without waiting for the following cycle).
To exit without modifying any parameter: do not press any button for at least 60 seconds (TIME OUT).

LIST OF PARAMETERS TYPE C

Table with 7 columns: Parameter, Type, Min, Max, U.M., Def, Value. Lists parameters like r2 Probe measurement stability, /4 virtual probe, /7 Probe display on the display unit, /1 Probe display on the terminal unit, /5 selection of Centigrades/Fahren. degrees, /6 autoscale.

Table with 7 columns: Parameter, Type, Min, Max, U.M., Def, Value. Lists parameters like /8 product probe calibration - S3, /9 defrost with x probe, /A defrost probe/product probe existence, /C ambient probe calibration - S1, A0 alarm and fan differential, A4 digital input 1 configuration, A5 digital input 2 configuration, A7 delayed alarm from digital input, Ad temperature alarm delay, c0 compressor start-up delay, c1 minimum time between two compressor start-ups, c2 compressor shut-down minimum time, c3 compressor operation minimum time, c4 compressor relay safety (duty-setting), c6 Alarm delay after continuous cycle, cc Continuous cycle, cd Type of defrost, cd2 defrost command type, d4 Defrost at the start-up of the instrument, d5 Start-up or digital input defrost delay, d6 display during defrost, d9 defrost priority on compressor time, F0 fan management, F2 fans always ON, F3 Fans OFF when compressor OFF, F3 Fans OFF during defrost, H0 Serial address, H1 AUX 1 relay function, H2 AUX 2 relay function, H3 disables the keyboard, in Master/Slave Unit configuration, L1 light sensor sensibility, Ll duration of the light time turned on by the sensor, Lo enables local on/off, Ll enables on/off from the LAN, Ld propagation on LAN of the digital input 2, r1 Minimum set allowed to the user, r2 Maximum set allowed to the user, r3 Ed alarm enabling (time out defrost), r4 night set point, r5 min. max. temperature monitoring enabling, r6 Night regulation with product probe, S8 serial communication speed RS485, Sn slave number, St temperature set-point, tu weekly day HA event, th event hour HA, tr HACCPC alarm delay, T1 defrost event 1, T2 defrost event 2, T3 defrost event 3, T4 defrost event 4, T5 defrost event 5, T6 defrost event 6, T7 defrost event 7, T8 defrost event 8, T9 defrost event 9, T10 defrost event 10, T11 defrost event 11, T12 defrost event 12, T13 defrost event 13, T14 defrost event 14, T15 defrost event 15, T16 defrost event 16, T17 defrost event 17, T18 defrost event 18, T19 defrost event 19, T20 defrost event 20, T21 defrost event 21, T22 defrost event 22, T23 defrost event 23, T24 defrost event 24, T25 defrost event 25, T26 defrost event 26, T27 defrost event 27, T28 defrost event 28, T29 defrost event 29, T30 defrost event 30, T31 defrost event 31, T32 defrost event 32, T33 defrost event 33, T34 defrost event 34, T35 defrost event 35, T36 defrost event 36, T37 defrost event 37, T38 defrost event 38, T39 defrost event 39, T40 defrost event 40, T41 defrost event 41, T42 defrost event 42, T43 defrost event 43, T44 defrost event 44, T45 defrost event 45, T46 defrost event 46, T47 defrost event 47, T48 defrost event 48, T49 defrost event 49, T50 defrost event 50, T51 defrost event 51, T52 defrost event 52, T53 defrost event 53, T54 defrost event 54, T55 defrost event 55, T56 defrost event 56, T57 defrost event 57, T58 defrost event 58, T59 defrost event 59, T60 defrost event 60, T61 defrost event 61, T62 defrost event 62, T63 defrost event 63, T64 defrost event 64, T65 defrost event 65, T66 defrost event 66, T67 defrost event 67, T68 defrost event 68, T69 defrost event 69, T70 defrost event 70, T71 defrost event 71, T72 defrost event 72, T73 defrost event 73, T74 defrost event 74, T75 defrost event 75, T76 defrost event 76, T77 defrost event 77, T78 defrost event 78, T79 defrost event 79, T80 defrost event 80, T81 defrost event 81, T82 defrost event 82, T83 defrost event 83, T84 defrost event 84, T85 defrost event 85, T86 defrost event 86, T87 defrost event 87, T88 defrost event 88, T89 defrost event 89, T90 defrost event 90, T91 defrost event 91, T92 defrost event 92, T93 defrost event 93, T94 defrost event 94, T95 defrost event 95, T96 defrost event 96, T97 defrost event 97, T98 defrost event 98, T99 defrost event 99, T100 defrost event 100.

cd2 defrost command type
0=only start, general slave
1=start + stop from LAN, slave of a Power Split
d4 Defrost at the start-up of the instrument (0=no, 1=yes)
d5 Start-up or digital input defrost delay
0=no block, temp. display alternate to "dF"
1=display block, it displays the latest temperature
d9 defrost priority on compressor time (0=no, 1=yes)
F0 fan management:
0=fans always ON, specific phases excluded (F2, F3 and Fd)
1 = thermostat with evaporator temp.
F2 fans OFF when compressor OFF
(0=no, 1=yes - it is used only with Fd=0)
F3 Fans OFF during defrost
(0=no, 1=yes - it is used both Fd=0 and Fd=1)
H0 Serial address (0= master, 1..199 = slave)
H1 AUX 1 relay function n. 4
(see Table 2) Default LIGHT Use
H2 AUX 2 relay function n. 5
(see Table 2) Default Use for ANTIFOGGING
H3 disables the keyboard
0= enabled, 1 = disabled
in Master/Slave Unit configuration
0=slave, 1=master
for single units, it must be = 0
L1 light sensor sensibility
0 = disabled
1 = low sensibility
2 = high sensibility
Ll duration of the light time turned on by the sensor
C 1 15 min. 10
Lo enables local on/off
(0 = disabled local on/off, 1 = enabled local on/off)
Ll enables on/off from the LAN
C 0 1 flag 0
(0= on/off disabled from the LAN, 1= on/off enabled from the LAN)
Ld propagation on LAN of the digital input 2
C 0 1 flag 0
if Master:
0= no propagation of the digital input 2 status
1= propagation of the digital input 2 status
if Slave:
0= uses local digital input 2
1= uses the propagated digital input 2
r1 Minimum set allowed to the user (resolution 0.1°C)
C -50.0 r2 °C/F -50.0
r2 Maximum set allowed to the user (resolution 0.1°C)
C r1 199.9 °C/F 90.0
r3 Ed alarm enabling (time out defrost)
C 0 1 flag 0
r4 night set point (resolution 0.1°C)
C -19.9 19.9 °C/F 3.0
r5 min. max. temperature monitoring enabling
C 0 1 flag 0
(0=no, 1=si)
Warning: on/off transition zeroes the reading)
r6 Night regulation with product probe
(0=disabled, 1=enabled)
C 0 1 flag 0
S8 serial communication speed RS485
(0 = 9600 Baud, 1 = 19200 Baud)
C 0 1 flag 1
Sn slave number
0= no connected slave unit; used only on master, slave or single units leave Default
C 0 5 flag 1
St temperature set-point (resolution 0.1°C)
C r1 r2 °C/F -100
to HACCPC - HA - HF alarm reset
0 = not active HACCPC alarm
1 = active HACCPC alarm. It can be reset.
Variable set only by HACCPC alarm and reset either explicitly or using HACCPC button on terminal LARGE
tu weekly day HA event
Only display (range 1..7) Monday... Sunday
C 1 7 days 0
th event hour HA
C 0 23 hours 0
tr HACCPC alarm delay (0 = disabled)
C 0 199 min. 0
T1 defrost event 1 (see Table 3)
C 0 10 0
T2 defrost event 1 hour
date hour for defrost event
C 0 23 hours 0
T3 defrost event 1 minute
date hour for defrost event
C 0 59 min. 0
T4 defrost event day 1
day date (see Table 3)
C 0 10 0
T5 defrost event hour 2
C 0 23 hours 0
T6 defrost event minute 2
C 0 59 min. 0
T7 defrost event day 3
C 0 10 0
T8 defrost event hour 3
C 0 23 hours 0
T9 defrost event minute 3
C 0 59 min. 0
T10 defrost event day 4
C 0 10 0
T11 defrost event hour 4
C 0 23 hours 0
T12 defrost event minute 4
C 0 59 min. 0
T13 defrost event day 5
C 0 10 0
T14 defrost event hour 5
C 0 23 hours 0
T15 defrost event minute 5
C 0 59 min. 0
T16 defrost event day 6
C 0 10 0
T17 defrost event hour 6
C 0 23 hours 0
T18 defrost event minute 6
C 0 59 min. 0
T19 defrost event day 7
C 0 10 0
T20 defrost event hour 7
C 0 23 hours 0
T21 defrost event minute 7
C 0 59 min. 0
T22 defrost event day 8
C 0 10 0
T23 defrost event hour 8
C 0 23 hours 0
T24 defrost event minute 8
C 0 59 min. 0
T25 defrost event day 9
C 0 10 0
T26 defrost event hour 9
C 0 23 hours 0
T27 defrost event minute 9
C 0 59 min. 0
T28 defrost event day 10
C 0 10 0
T29 defrost event hour 10
C 0 23 hours 0
T30 defrost event minute 10
C 0 59 min. 0
T31 defrost event day 11
C 0 10 0
T32 defrost event hour 11
C 0 23 hours 0
T33 defrost event minute 11
C 0 59 min. 0
T34 defrost event day 12
C 0 10 0
T35 defrost event hour 12
C 0 23 hours 0
T36 defrost event minute 12
C 0 59 min. 0
T37 defrost event day 13
C 0 10 0
T38 defrost event hour 13
C 0 23 hours 0
T39 defrost event minute 13
C 0 59 min. 0
T40 defrost event day 14
C 0 10 0
T41 defrost event hour 14
C 0 23 hours 0
T42 defrost event minute 14
C 0 59 min. 0
T43 defrost event day 15
C 0 10 0
T44 defrost event hour 15
C 0 23 hours 0
T45 defrost event minute 15
C 0 59 min. 0
T46 defrost event day 16
C 0 10 0
T47 defrost event hour 16
C 0 23 hours 0
T48 defrost event minute 16
C 0 59 min. 0
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T64 defrost event day 22
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T66 defrost event minute 22
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T67 defrost event day 23
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T68 defrost event hour 23
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T69 defrost event minute 23
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T70 defrost event day 24
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T71 defrost event hour 24
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T72 defrost event minute 24
C 0 59 min. 0
T73 defrost event day 25
C 0 10 0
T74 defrost event hour 25
C 0 23 hours 0
T75 defrost event minute 25
C 0 59 min. 0
T76 defrost event day 26
C 0 10 0
T77 defrost event hour 26
C 0 23 hours 0
T78 defrost event minute 26
C 0 59 min. 0
T79 defrost event day 27
C 0 10 0
T80 defrost event hour 27
C 0 23 hours 0
T81 defrost event minute 27
C 0 59 min. 0
T82 defrost event day 28
C 0 10 0
T83 defrost event hour 28
C 0 23 hours 0
T84 defrost event minute 28
C 0 59 min. 0
T85 defrost event day 29
C 0 10 0
T86 defrost event hour 29
C 0 23 hours 0
T87 defrost event minute 29
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T88 defrost event day 30
C 0 10 0
T89 defrost event hour 30
C 0 23 hours 0
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C 0 59 min. 0
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C 0 23 hours 0
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C 0 23 hours 0
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C 0 23 hours 0
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C 0 23 hours 0
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C 0 23 hours 0
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C 0 23 hours 0
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C 0 23 hours 0
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C 0 23 hours 0
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C 0 23 hours 0
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C 0 10 0
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C 0 23 hours 0
T291 defrost event minute 97
C 0 59 min. 0
T292 defrost event day 98
C 0 10 0
T293 defrost event hour