EV3B71/EV3B81

Controllers for refrigerated units, with compressor protection against mains voltage fluctuations



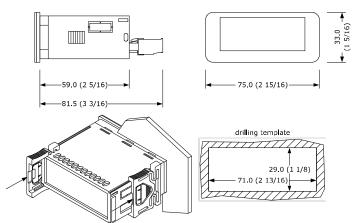




- Controllers for normal temperature units
- Power supply 115... 230 VAC
- Cabinet probe (PTC/NTC)
- Door switch/multi-purpose input
- Compressor relay rated 16 res. A @ 250 VAC (EV3B71) or 30 res. A @ 250 VAC
- Compressor protection against mains voltage fluctuations
- Cooling or heating operation

MEASUREMENTS AND INSTALLATION

Measurements in mm (inches). To be fitted to a panel, snap-in brackets provided.



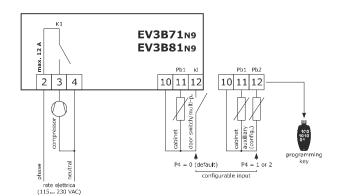
INSTALLATION PRECAUTIONS

- The thickness of the panel must be between 0.8 and 2.0 mm (1/32 and 1/16 in) Ensure that the working conditions are within the limits stated in the TECHNICAL SPECIFICATIONS section
- Do not install the device close to heat sources, equipment with a strong magnetic field, in places subject to direct sunlight, rain, damp, excessive dust, mechanical vibrations or shocks
- In compliance with safety regulations, the device must be installed properly to ensure adequate protection from contact with electrical parts. All protective parts must be fixed in such a way as to need the aid of a tool to remove them

2 ELECTRICAL CONNECTION



Use cables of an adequate section for the current running through them To reduce any electromagnetic interference connect the power cables as far away as possible from the signal cables



PRECAUTIONS FOR ELECTRICAL CONNECTION

- If using an electrical or pneumatic screwdriver, adjust the tightening torque
- If the device has been moved from a cold to a warm place, the humidity may have caused condensation to form inside. Wait about an hour before switching on the power
- Make sure that the supply voltage, electrical frequency and power are within the set limits. See the section $\it TECHNICAL\ SPECIFICATIONS$
- Disconnect the power supply before doing any type of maintenance
- Do not use the device as safety device For repairs and for further information, contact the EVCO sales network

- Install following the instructions given in the section MEASUREMENTS AND INSTALLA-
- Power up the device as shown in the section ELECTRICAL CONNECTION and an internal test will be run.
- The test normally takes a few seconds, when it is finished the display will switch off. Configure the device as shown in the section Setting configuration parameters.

Recommended configuration parameters for first-time use

| PAR. | DEF. | PARAMETER | MIN MAX. |
|------|------|---------------------------------|-----------------|
| SP | 0.0 | setpoint | r1 r2 |
| P0 | 1 | probe type | O = PTC 1 = NTC |
| P2 | 0 | temperature unit of measurement | 0 = °C 1 = °F |

Then check that the remaining settings are appropriate; see the section CONFIGURA TION PARAMETERS.

- Disconnect the device from the mains.
- Make the electrical connection as shown in the section **ELECTRICAL CONNECTION** with out powering up the device.
- Power up the device.

USER INTERFACE AND MAIN FUNCTIONS temperature unit * 1 °F * @ AUX reserved (1) ≙ SET △₩ ON/STAND-BY, keypad lock escape additional defrost

Switching the device on/off

If POF = 1, touch the ON/STAND-BY key for 4 s.

If the device is switched on, the display will show the P5 value ("cabinet temperature" default); if the display shows an alarm code, see the section ALARMS.

| | LED | ON | OFF | FLASHING |
|---|----------|----------------------|----------------|---|
| | * | compressor on | compressor off | - compressor protection active - setpoint setting active |
| | * | defrost active | - | defrost delay active dripping active |
| | @ | reserved | - | - |
| | HACCP | reserved | - | - |
| | (| energy saving active | - | - |
| , | 7 | reserved | - | - |
| | °C/°F | view temperature | - | - |
| ı | AUX | reserved | - | - |
| | (1) | device off | device on | device on/off active |
| | | | | |

If 30 s have elapsed without the keys being pressed, the display will show the "Loc" label and the keypad will lock automatically.

4.2 Unlock keypad

Touch a key for 1 s: the display will show the label "UnL"

4.3 Set the setpoint

Check that the keypad is not locked

| 1. | ≙SET | Touch the SET key. |
|----|---------|--|
| 2. | √ | Touch the UP or DOWN key within 15 s to set the value within the limits r1 and r2 (default "-40 50") |
| 3. | _ a set | Touch the SET key (or do not operate for 15 s). |

Activate manual defrost (if r5 = 0, default)

Check that the keypad is not locked and that overcooling is not active

Touch the UP key for 2 s.

If P4 = 1 (default), defrost is activated provided that the evaporator temperature is lower than the d2 threshold.

Cabinet light on/off (if u0 = 3, default or if u1 = 3)

Touch the ON/STAND-BY key

Button-operated load on/off (if u0 = 1)

Check that the keypad is not locked.

() Touch the ON/STAND-BY key (for 2 s if u1 = 3).

5 ADDITIONAL FUNCTIONS View/delete compressor functioning hours

| · | tion, acidic compressor randictioning ricars | | | | |
|-------------|--|-------------|---|--|--|
| Check t | Check that the keypad is not locked. | | | | |
| 1. | | ✓ | Touch the DOWN key for 4 s. | | |
| 2. | | | Touch the UP or DOWN key within 15 s to select a label. | | |
| | LAB. | DESCRIPTION | ON | | |
| | СН | view compr | essor functioning hours (hundreds) | | |
| | rCH | delete comp | pressor functioning hours | | |
| 3. ASET | | 5 €T | Touch the SET key. | | |
| 4. (| | | Touch the UP or DOWN key to set "149" (when label "rCH" is selected). | | |
| 5. A SET | | 5 €⊤ | Touch the SET key. | | |
| | | | Touch the ON/STAND-BY key (or do not operate for 60 s) to exit | | |

View the temperature detected by the probes

the procedure.

| 5.2 | view the temperature detected by the probes | | | | |
|---------|---|---------------|---|--|--|
| Check t | Check that the keypad is not locked. | | | | |
| 1. | \ | / | Touch the DOWN key for 4 s. | | |
| 2. | √ | <u>^</u> # • | Touch the UP or DOWN key within 15 s to select a label. | | |
| | LAB. | DESCRIPTION | ON | | |
| | Pb1 | cabinet tem | perature | | |
| | Pb2 | auxiliary ter | mperature (if P4 = 1 or 2) | | |
| 3. | 1 25 | 5 €⊤ | Touch the SET key. | | |
| 4. | (| ט | Touch the ON/STAND-BY key (or do not operate for 60 s) to exit the procedure. $ \\$ | | |
| | | | | | |

5.3 View the mains voltage

| Assicui | Assicularsi che la tastiera non sia bioccata. | | | | | |
|---------|---|---|--|--|--|--|
| 1. | | Touch the DOWN key for 4 s. | | | | |
| 2. | √ | Touch the UP or DOWN key within 15 s to select "UOL". | | | | |
| 3. | ≙SET | Touch the SET key. | | | | |
| 4. | 0 | Touch the ON/STAND-BY key (or do not operate for 60 s) to exit the procedure. | | | | |
| | | | | | | |

| 6 | SETTINGS | |
|-----|---|---|
| 6.1 | Setting configurat | ion parameters |
| 1. | _ aset | Touch the SET key for 4 s: the display will show the label "PA". |
| 2. | aset | Touch the SET key. |
| 3. | √ | Touch the UP or DOWN key within 15 s to set the PAS value (default "-19"). |
| 4. | 1 aset | Touch the SET key (or do not operate for 15 s): the display will show the label "SP". |
| 5. | ₹ | Touch the UP or DOWN key to select a parameter. |
| 6. | aset | Touch the SET key. |
| 7. | ₹ | Touch the UP or DOWN key within 15 s to set the value. |
| 8. | aset | Touch the SET key (or do not operate for 15 s). |
| 9. | aset | Touch the SET key for 4 s (or do not operate for 60 s) to exit the procedure. |
| | 6.1 1. 2. 3. 4. 5. 6. 7. | 6.1 Setting configuration 1. SET 2. SET 3. SET 4. SET 5. SET 6. SET 7. SET 8. SET |

Restore the factory settings (default) and store customized settings as default

the storing of customized settings overwrites the default

Ö

Check that the factory settings are appropriate; see the section CONFIGURATION

| ٠ | 1. | ≥set | | Touch the SET key for 4 s: the display will show the label "PA". |
|---|------------------|----------|---------------|---|
| | 2. | <u>a</u> | 5 €⊤ | Touch the SET key. |
| | 3. | f | | Touch the UP or DOWN key within 15 s to set the value. |
| | | VAL. | DESCRIPTION | NC |
| . | | 149 | value to res | store the factory settings (default) |
| | | 161 | value to sto | re customized settings as default |
| | 4. ASET | | ∋ ∈⊤ | Touch the SET key (or do not operate for 15 s): the display will show the label "dEF" (when value "149" is set) or the label "MAP" (when value "161" is set). |
| | 5. | 1 29 | 5 €⊤ | Touch the SET key. |
| | 6. | f | | Touch the UP or DOWN key within 15 s to set "4". |
| | 7. | _ aset | | Touch the SET key (or do not operate for 15 s): the display will show for 4 s "" flashing, then the device will exit the procedure. |
| | 8. | Interru | upt the power | r supply to the device. |
| | 19. II 🗃 🕽 🖃 📗 📗 | | SET | Touch the SET key 2 s before action 6. to exit the procedure beforehand. |

| 5. | aset | | | Touch the SET key. | | | |
|------------------|----------|------------|-------------|--|---|--|--|
| 6. | aset | | | Touch the UP or DOWN key within 15 s to set "4". Touch the SET key (or do not operate for 15 s): the display will | | | |
| | | | | | | | |
| 7. | | | | show for 4 s "" flashing, then the device will exit the proce- | | | |
| | | | | dure. | | | |
| 8. | Inte | rrupt th | e power | supply to the device. | | | |
| 9. | 4 | SET | | Touch the SET key 2 s before acti- forehand. | on 6. to exit the procedure be- | | |
| | | | | Toronana. | | | |
| 7 | CON | FIGURA | ATION | PARAMETERS | | | |
| O= | N. | PAR. | DEF. | SETPOINT | MIN MAX. | | |
| Ø≣ | 1 | SP | 0.0 | setpoint | r1 r2 | | |
| | N. | PAR. | DEF. | ANALOGUE INPUTS | MIN MAX. | | |
| | 2 | CA1 | 0.0 | cabinet probe offset | -25 25 °C/°F | | |
| | 3 | CA2 | 0.0 | auxiliary probe offset | -25 25 °C/°F | | |
| | 4 | PO | 1 | probe type | 0 = PTC 1 = NTC | | |
| | 5 6 | P1 P2 | 0 | enable °C decimal point temperature unit of measure- | 0 = no 1 = yes 0 = °C 1 = °F | | |
| _ | | '- | | ment | | | |
| $Q_{\mathbf{k}}$ | 7 | P4 | 1 | configurable input function | 0 = door switch/multi-pur- | | |
| J | | | | | pose input | | |
| | | | | | 1 = evaporator probe 2 = condenser probe | | |
| | 8 | P5 | 0 | value displayed | 0 = cabinet temperature | | |
| | | | | | 1 = setpoint | | |
| | | | | | 2 = auxiliary temperature | | |
| | 9 | P8 | 5 | display refresh time | 0 250 s : 10 | | |
| | N. 10 | PAR. r0 | DEF. 2.0 | REGULATION setpoint differential | MIN MAX. 1 15 °C/°F | | |
| | 11 | r0 r1 | -40 | minimum setpoint | -99 °C/°F r2 | | |
| | 12 | r2 | 50.0 | maximum setpoint | r1 199 °C/°F | | |
| * | 13 | r4 | 0.0 | setpoint offset in energy saving | 0 99 °C/°F | | |
| - | 14 | r5 | 0 | cooling or heating operation | 0 = cooling | | |
| | 15 | r12 | 0 | position of the r0 differential | 1 = heating | | |
| | 15 | ' ' | | position or the 10 differential | 0 = asymmetric 1 = symmetric | | |
| | N. | PAR. | DEF. | COMPRESSOR | MIN MAX. | | |
| | 16 | CO | 0 | compressor on delay after pow- | 0 199 min | | |
| | 47 | -00 | _ | er-on | 0 100 1 | | |
| | 17 | C2 | 3 | compressor off minimum time | 0 199 min 0 = protection against mains | | |
| | | | | | voltage fluctuations dis- | | |
| | | | | | abled | | |
| | 18 | C3 | 0 | compressor on minimum time | 0 199 s | | |
| | 19 | C4 | 0 | compressor off time during cabi- net probe alarm | 0 240 min | | |
| | 20 | C5 | 10 | compressor on time during cabi- | 0 240 min | | |
| | | | | net probe alarm | | | |
| | 21 | C6 | 80.0 | threshold for high condensation | | | |
| | 22 | C7 | 90.0 | warning threshold for high condensation | differential = 2 °C/4 °F 0 199 °C/°F | | |
| | | " | 70.0 | alarm | 0 177 07 1 | | |
| | 23 | C8 | 1 | high condensation alarm delay | 0 15 min | | |
| | 24 | C14 | 190 | mains voltage threshold below | 0 300 V | | |
| | | | | which the compressor is not switched on | the device attempts to switch on every 30 s | | |
| - | 25 | C15 | 180 | mains voltage threshold below | 0 300 V | | |
| | | | | which the compressor is switched | if satisfied C17 time | | |
| | 0.1 | 04.6 | 0/0 | off | 0.0001/ | | |
| | 26 | C16 | 260 | mains voltage threshold above which the compressor is not | 0 300 V if satisfied C17 time | | |
| | | | | switched on or switched off | the device attempts to switch | | |
| | | | | | on every 30 s | | |
| | 27 | C17 | 5 | consecutive duration of the per- | 0 60 s | | |
| | | | | manence of the mains voltage outside the thresholds C15 and | | | |
| | | | | C16 due to the compressor being | | | |
| | | | | switched off | | | |
| | 28 | C18 | 5 | consecutive number of failed | 0 00 | | |
| | | | | compressor starts due to the mains voltage outside the | 0 = protection against mains voltage fluctuations dis- | | |
| | | | | thresholds C14 and C16 such as | abled | | |
| | | | | to cause the forced start-up of | oo = the device never makes | | |
| | | | | the compressor | the forced start-up of | | |
| | | | | | the compressor the interruption of the power | | |
| | | | | | supply resets the count | | |
| | N. | PAR. | DEF. | DEFROST (if r5 = 0) | MIN MAX. | | |
| | 29 | d0 | 8 | automatic defrost interval | 0 99 h | | |
| | | | | | 0 = only manual if d8 = 3, maximum interval | | |
| | 30 | d2 | 2.0 | threshold for defrost end | -99 99 °C/°F | | |
| | 31 | d3 | 30 | defrost duration | 0 99 min | | |
| | 20 | | _ | anable defe+ | se P4 = 1, maximum duration | | |
| | 32 | d4 d5 | 0 | enable defrost at power-on defrost dealy after power-on | 0 = no 1 = yes 0 199 min | | |
| | 34 | d6 | 2 | value displayed during defrost | 0 = cabinet temperature | | |
| | - | | - | and the state of t | 1 = display locked | | |
| | | | | | 2 = dEF label | | |
| ٨ | 35 | d7 | 2 | dripping time | 0 15 min | | |
| | 36 | d8 | 0 | defrost interval counting mode | 0 = device on hours 1 = compressor on hours | | |
| | | | | | 2 = hours evaporator tem- | | |
| | | | | | perature < d9 | | |
| | 27 | 40 | 0.0 | ovaporation threshold for and | 3 = adaptive -99 99 °C/°F | | |
| | 37 | d9 | 0.0 | evaporation threshold for auto- matic defrost interval counting | -77 77 G/ F | | |

d11

d15

40

40 d18

matic defrost interval counting enable defrost timeout alarm

for hot gas defrost

adaptive defrost interval

1 = yes

if compressor on + evaporator temperature < d22 0 = only manual

0 = no

0... 999 min

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|--|----|----------------------|------|--|--|
| EVCO S. | 41 | 41 d19 3.0 th | | threshold for adaptive defrost | 0 40 °C/°F |
| | | | | (relative to optimal evaporation temperature) | optimal evaporation tempera- ture - d19 |
| | 42 | d20 | 180 | compressor on consecutive time for defrost | 0 500 min 0 = disabled |
| | 43 | d22 | 0.0 | evaporation threshold for adap- | -10 10 °C/°F |
| | | | | tive defrost interval counting (relative to optimal evaporation | optimal evaporation tempera- ture + d22 |
| | | DAD | DEE | temperature) | |
| | N. | PAR. | DEF. | ALARMS | MIN MAX. |
| | 44 | A1 | 10.0 | threshold for low temperature alarm (relative to setpoint) | 0 199 °C/°F 0 = disabled |
| | 45 | A4 | 10.0 | threshold for high temperature | 0 199 °C/°F |
| | 46 | A6 | 12 | alarm (relative to setpoint) high temperature alarm delay af- | 0 = disabled 0 99 min x 10 |
| 4 | | | | ter power-on | |
| 2 | 47 | A7 | 15 | high/low temperature alarms de- lay | 0 199 min |
| | 48 | A8 | 15 | high temperature alarm delay after defrost | 0 240 min |
| | 49 | A9 | 15 | high temperature alarm delay after door closing | 0 240 min |
| | 50 | A11 | 2.0 | high/low temperature alarms reset differential | 1 15 °C/°F |
| | N. | PAR. | DEF. | DIGITAL INPUTS | MIN MAX. |
| | 51 | iO | 1 | door switch/multi-purpose input | 0 = disabled |
| | | | | function | 1 = compressor off |
| | | | | | 2 = reserved |
| | | | | | 3 = energy saving |
| | | | | | 4 = iA alarm (only display) |
| | | | | | 5 = iA alarm (compressor |
| | | | | | off) |
| | 52 | i1 | 0 | door switch/multi-purpose input | 0 = with contact closed |
| | | | | activation | 1 = with contact open |
| | 53 | i2 | 30 | open door alarm delay | -1 120 min |
| | | | | | -1 = disabled |
| <u> </u> | | | | | if i0 = 4, multi-purpose input |
| . 11 | | | | | alarm delay |
| | | | | | if i0 = 5, compressor on de- |
| | | | | | lay after alarm reset |
| | 54 | i3 | 15 | regulation inhibition maximum | -1 120 min |
| | | | | time with door open | -1 = until the closing |
| | 55 | i10 | 0 | door closed consecutive time for | 0 999 min |
| | | | | energy saving | after regulation temperature |
| | | | | | < SP 0 = disabled |
| | 56 | i13 | 180 | number of door openings for de- | 0 240 |
| | | | | frost | 0 = disabled |
| | 57 | i14 | 32 | door open consecutive time for | 0 240 min |
| | N. | PAR. | DEF. | defrost ENERGY SAVING (if r5 = 0) | 0 = disabled MIN MAX. |
| ≥ 0 | 58 | HE2 | 0 | energy saving maximum duration | 0 999 min |
| | 59 | HE3 | 0 | consecutive time without operat- | 0 240 min |
| | | | | ing on keys for low consumption | 0 = disabled |
| | N. | PAR. | DEF. | SAFETIES | MIN MAX. |
| \bigcirc | 60 | POF | 0 | enable ON/STAND-BY key | 0 = no 1 = yes |
| ~ | 61 | PAS | -19 | password | -99 999 |
| | | | | | |

| 8 | ALARMS | | |
|------|------------------------------|---------------|--------------------------------|
| | | | |
| COD. | DESCRIPTION | RESET | REMEDIES |
| Pr1 | cabinet probe alarm | automatic | - check P0 |
| Pr2 | auxiliary probe alarm | automatic | - check probe integrity |
| | | | - check electrical connection |
| COn | forced compressor start | manual | - touch a key |
| | alarm | | - check C18 |
| LU | compressor alarm not on or | manual, au- | - touch a key |
| | off due to low mains voltage | tomatic after | - check C14 and C15 |
| | | 30 s | |
| HU | compressor alarm not on or | manual, au- | - touch a key |
| | off due to high mains volt- | tomatic after | - check C16 |
| | age | 30 s | |
| AL | low temperature alarm | automatic | check A1 and A7 |
| AH | high temperature alarm | automatic | check A4 and A7 |
| id | open door alarm | automatic | check i0 e i1 |
| сон | high condensation warning | automatic | check C6 |
| CSd | high condensation alarm | manual | - switch the device off and on |
| | | | - check C7 |
| iA | multi-purpose input alarm | automatic | check i0 and i1 |
| dFd | defrost timeout alarm | manual | - touch a key |
| | | | - check d2, d3 and d11 |
| | | | |

| 9 TECHNI | CAL SPECIFIC | ATIONS | | |
|------------------------|--------------------|-----------------|---|---------------------------------|
| | | | l= | |
| Purpose of the | | | Function contro | |
| | the control dev | rice | Built-in electror | |
| Container | | | Black, self-extir | nguishing |
| | at and fire resis | tance | D | |
| Measurements | | | | |
| | 59.0 mm (2 15 | | | 81.5 mm (2 15/16 x 1 5/16 x |
| 2 5/16 in) with | fixed screw ter | minal blocks | 3 3/16 in) wi blocks | th removable screw terminal |
| Mounting meth | ods for the cont | rol device | To be fitted to vided | a panel, snap-in brackets pro- |
| | ection provided | by the cover- | IP65 (front) | |
| ing Connection me | thod | | I | |
| | erminal blocks f | or wires up to | Removable scre | ew terminal blocks for wires up |
| 2.5 mm ² | armiai biocks I | or wires up to | to 2,5 mm ² ; by | • |
| | nitted length for | connection cabl | | |
| Power supply: | | COLON CODI | | s: 10 m (32.8 ft) |
| Digital inputs: | | | Digital outputs: | |
| Operating temp | | | | C (from 32 to 131 °F) |
| Storage temper | | | From -25 to 70 °C (from -13 to 158 °F) | |
| Operating hum | | | Relative humidity without condensate from | |
| Operating num | idity | | 10 to 90% | ary without condensate from |
| Pollution status | of the control of | device | 2 | |
| Conformity | 7 01 1110 00111101 | 301100 | | |
| RoHS 2011/65/ | /CF | WEEE 2012/19 | /FU | REACH (EC) Regulation |
| | | | | 1907/2006 |
| EMC 2014/30/U | JF | | LVD 2014/35/U | |
| Power supply | | | | C (+10 % -15%), 50/60 Hz |
| | | | (±3 Hz), max. 4 VA (EV3B71) or 4.9 VA (EV3B81) insulated | |
| Earthing metho | ods for the contr | ol device | None | |
| | withstand volta | | 2.5 KV | |
| Over-voltage ca | | <u> </u> | П | |
| Software class | | | A | |
| Analogue input | | | | C probes (cabinet probe) |
| PTC probes Sensor type | | | KTY 81-121 (990 Ω @ 25 °C, 77 °F) | |
| Measurement field | | | 0 °C (from -58 to 302 °F) | |
| | Resolution | | 0.1 °C (1 °F) | |
| NTC probes | Sensor type | | β3435 (10 KΩ @ 25 °C, 77 °F) | |
| | Measurement f | ield | From -40 to 105 °C (from -40 to 221 °F) | |
| | Resolution | | 0.1 °C (1 °F) | |
| Other inputs | | | Input configurable for analogue input (auxiliary probe) or digital input (door switch/multi-purpose, dry contact) | |

| Dry contact | Contact type | | 5 VDC, 1.5 mA |
|---|----------------------------|--|---------------|
| | Power supply | | None |
| | Protection | | None |
| Digital outputs | 1 electro-mechanical relay | | |
| Relay K1 | | SPST, 16 A res. @ 250 VAC (EV3B71) | |
| | | SPST, 30 A res. @ 250 VAC (EV3B81) | |
| Type 1 or Type 2 Actions | | Type 1 | |
| Additional features of Type 1 or Type 2 ac- | | С | |
| tions | | | |
| Displays | | 3 digits custom display, with function icons | |
| | | | |



N.B.
The device must be disposed of according to local regulations governing the collection of electrical and electronic waste.

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