EV3B94

Controller for DHW heat pump heaters

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FN ENGLISH

- power supply 115... 230 VAC
- DHW tank upper and lower probe, evaporator probe (PTC/NTC/Pt 1000)
- photovoltaic, HP and multi-purpose digital input (see i0)
- compressor relay 16 A res. @ 250 VAC
- alarm buzzer.

MEASUREMENTS AND INSTALLATION 1

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.

ELECTRICAL CONNECTION

N.B

use cables of an adequate section for the current running through them. to reduce any electromagnetic interference locate 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 is moved from a cold to a warm place, humidity may cause condensation
- to form inside. Wait for 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 TECHNICAL SPECIFICATIONS;
- disconnect the power supply before carrying out any type of maintenance;
- do not use the device as a safety device;
- for repairs and for further information, contact the EVCO sales network.

FIRST-TIME USE

- Carry out the installation following the instructions given in the section MEASUREMENTS AND INSTALLATION.
- 2. Power up the device as set out in the section ELECTRICAL CONNECTION: an internal test will start up.

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.				
SP1	55.0	setpoint in economy mode	r3 r4			
SP2	65.0	setpoint in comfort mode	r1 r2			
P0	1	type of probe	0 = PTC 1 = NTC			
			2 = Pt 1000			
P2	0	temperature measurement unit	0 = °C $1 = °F$			
Р3	1	enabled probes	0 = DHW tank upper probe + high pressure input 1 = DHW tank upper and lower probe			
d1	2	type of defrost	0 = electric 1 = hot gas 2 = compressor stopped 3 = hot gas balancing the pressure			

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 without powering up the device.
- Power up the device.

USER INTERFACE AND MAIN FUNCTIONS 4



4.1 Switching the device on/off

(1)Touch the ON/STAND-BY key for 4 s.

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

LED	ON	OFF	FLASHING
桊	compressor switched on	compressor switched off	 compressor protection active setpoint being set
4	- defrost active	-	-
ම	fans switched on	fans switched off	-
НАССР	alarm active	-	-
٦	compressor mainte- nance request	-	-
°C/°F	temperature display	-	-
AUX	heaters switched on	heaters switched off	-
Û	device switched off	device switched on	-

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

4.2 Unlocking the keypad

Touch a key for 1 s: the display will show the label $``\mathbf{UnL''}.$

4.3 Setting the setpoint Economy

Check that the keypad is not locked.

1.	≙ SET	Touch the SET key: the display will show the label "SP1".
2.	≙ SET	Touch the SET key.
3.		Touch the UP or DOWN keys within 15s to set the value within the limits r3 and r4 (default "40 $55''$).
4.	≙ set	Touch the SET key (or take no action for 15s).
5.		Touch the ON/STAND-BY key.

4.4 Setting the Comfort setpoint Cheo

:k	that	the	keypad	is	not	locked.	



Touch the SET key: the display will show the label "SP1".

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 $\underline{}$ $\underline{}$ $\underline{}$ $\underline{}$ $\underline{}$ Touch the UP or DOWN key to select the label "SP2".

		,
3.	a set	Touch the SET key.
4.		Touch the UP or DOWN keys within 15s to set the value within the limits r1 and r2 (default "40 $70''$).
5.	a set	Touch the SET key (or take no action for 15s).
6.		Touch the ON/STAND-BY key.
4.5 Check t	Setting the overbo	post activation threshold t locked.
1.	≙ SET	Touch the SET key: the display will show the label "SP1".
2.		Touch the UP or DOWN key to select the label "SP3".
3.	a set	Touch the SET key.
4.		Touch the UP or DOWN keys within 15s to set the value within the limits 10 and r2 (default "10 $70''$).
5.	≙ SET	Touch the SET key (or take no action for 15s).
6.		Touch the ON/STAND-BY key.

Activating manual defrost 4.6

Check that the keypad isn't locked and that the anti-legionella and overboost functions aren't active.

1.	∧☆		Touch the UP key for 4s.
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If P4 = 1 or 2 (default), defrost is activated provided that the evaporator temperature is lower than the d2 threshold.

4.7 Silencing the alarm buzzer (if u9 = 1)

Touch a key.

FUNCTIONS AND LOAD OPERATIONS 5

5.1 Economy

- compressor on if DHW tank lower temperature < "SP1 setpoint r0 differential" and off 6.2 if DHW tank lower temperature > "SP1 setpoint"
- fans on if compressor on
- heaters switched off in normal operation (on if needed during defrost)

5.2 Comfort

- compressor on if DHW tank lower temperature < "SP5 setpoint r0 differential" and off if DHW tank lower temperature > "SP5 setpoint"
- fans on if compressor on
- heaters on, with a single probe configured (P3 = 0), if DHW tank upper temperature < "SP2 - r6 threshold - r7 differential" and off if DHW tank upper temperature > "SP2 r6 threshold".
- heaters on, with two probes configured (P3 = 1), if DHW tank upper temperature < "SP2 - r0 differential" and off if DHW tank upper temperature > "SP2".

5.3 Anti-legionella

- It activates at "H0 intervals", provided that DHW tank lower temperature > "SP1 setpoint" and > "SP2 setpoint"
- compressor switched off
- fans switched off
- heaters switched on until DHW tank upper temperature > "H1 threshold" and then for "H3 time".

5.4 Overboost

It activates in manual mode, provided that DHW tank upper and lower temperature < "SP3 threshold"

compressor, fans and heaters on until DHW tank upper temperature > "SP1 setpoint".

5.5 Defrosting

It activates with evaporator temperature < "d17 threshold" for "d18 time" or in manual mode, provided that the anti-legionella and overboost functions are not active

- compressor switched on if d1 = 1
- defrost relay active if d1 = 1 or 2
- fans switched on if d1 = 2
- heaters switched on to prevent too high temperature drop in the storage tank

5.6 Photovoltaic system

It activates with photovoltaic input active operation as in comfort mode, except for "SP2 setpoint" which becomes "SP6 setpoint".

5.7 Green

It activates with multi-purpose input active and DHW tank upper and lower temperature > "SP8 setpoint"

- compressor switched off
- fans switched off heaters switched off.

5.8 Antifreeze

This function is used to prevent the water freezing. It is activated when tank upper temperature < "SP7 setpoint" - "r0 differential" and this function is deactivated when tank upper temperature > "SP7 setpoint" heaters are switched on.

This function can be active only if the controller is in stand-by.

5.9 Pre opening hot gas defrost valve

This function is used to balance the pressure at the compressor start-up, and it is activated only if "d1" = 3.

This function switch on the defrost output "i11" seconds before the start-up of the compressor, this occurs every time the compressor started, even if there is no defrost request.

5.10 Fan operation

The fan operates depending on the active function, normally C12 second before the switch on of the compressor. There are some exceptions:

- defrost: in case of hot gas (d1=1) compressor is active but fan is off. In case of compressor stop (d1=2) compressor is off but fan is active
- alarms: in case of LHP compressor is off but fan is active.

ADDITIONAL FUNCTIONS

6 Activating/deactivating comfort operation in manual mode 6.1 Check that the keypad is not locked. 1. Touch the DOWN key for 1 s: the display will show a code. ∧☆ <u>ا</u> 2. Touch the UP or DOWN key within 15s to select a label. COD. DESCRIPTION Auto activates comfort operation ECO deactivates comfort operation

Touch the SET key

the procedure.

6.1 Activating the overboost function

≙ SET

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Check that the keypad isn't locked.						
1.	\sim	Touch the DOWN key for 1 s: the display will show a code.				
2.		Touch the UP or DOWN key within 15s to select " ObS ".				
3.	≙SET	Touch the SET key.				
4.		Touch the ON/STAND-BY key (or take no action for 60s) to exit				

the procedure.

Touch the ON/STAND-BY key (or take no action for 60s) to exit

Displaying the operating mode

Check that the keypad is not locked.

1.	`	/		Touch the DOWN key: the display will show a code.		
COD. DESCRIPTION			RIPTIO	DN		
	ECO	econor	my			
	ObS	overbo	oost			
	Auto comfort					
	Anti anti-legionel below "SP1 -		gione	ella; if flashing, function stopped because the temperature falled		
			"SP1	- r0" or "SP2 - r0"		
	dEFr defrost					
	in2	photov	/oltaio	c function		
2		ה		Touch the ON/STAND-BY key (or take no action for 60s) to exit		
2.				the procedure.		

6.3 Displaying/deleting compressor functioning hours

леск с	nat the	keypad is no	LIOCKED.
1.	◇登		Touch the DOWN key for 1 s: the display will show a code.
2.	۲.		Touch the UP or DOWN key within 15s to select a label.
	COD.	DESCRIPTIO	DN
	СН	display com	pressor working hours in hundreds
	rCH	delete comp	pressor working hours
3.			Touch the SET key.
4.			Touch the UP or DOWN key to set "149" (to select \mathbf{rCH}).
5.			Touch the SET key.
6.			Touch the ON/STAND-BY key (or take no action for 60s) to exit the procedure.
7	SETTIN	GS	
7.1	Setting	configurat	ion parameters
1.	≙∈	ЕТ	Touch the SET key for 4 s: the display will show the label " $\ensuremath{{}^{\mbox{\tiny PA}'}}$.
2.		ет І	Touch the SET key.

	1 1	
3.		Touch the UP or DOWN key within 15s to set the PAS value (default "-19").
4.	a set	Touch the SET key (or take no action for 15s): the display will show the label " ${\bf SP}''.$
5.		Touch the UP or DOWN key to select a parameter.
6.	l ≙set	Touch the SET key.
7.		Touch the UP or DOWN key within 15s to set the value.
8.	≙ SET	Touch the SET key (or take no action for 15s).
9.	≙ SET	Touch the SET key for 4s (or take no action for 60s) to exit the procedure.

EVCO S.p.A. | EV3B94 | Instruction sheet ver. 4.0 | Code 1043B94E404 | Page 3 of 5 | PT 05/21 7.2 Restoring factory settings (default)

I

-	N.B. - check that the factory settings are appropriate; see the section CONFIGURATION PARAMETERS.				
1.		SET		Touch the SET key for 4 s: the disp	lay will show the label " PA ".
2.	≙ SET			Touch the SET key.	
3.	۲	$\overline{\mathbb{V}}$	ا وا	Touch the UP or DOWN key within	15s to set " 149 ".
4.		SET		Touch the SET key (or take no ac show the label " dEF ".	ction for 15s): the display will
5.		SET		Touch the SET key.	
6.	۲	\sim	ا وا	Touch the UP or DOWN key within	15s to set " 1 ".
7.		SET	I	Touch the SET key (or take no ac show "" flashing for 4 s, after procedure	tion for 15 s): the display will which the device will exit the
8.	Disco	nnect th	ne devic	the from the power supply.	
9.		SET		Touch the SET key for 1s before beforehand.	action 6 to exit the procedure
7	CONF	IGURA	TION P	ARAMETERS	
	No.	PAR.	DEF.	SETPOINT	MIN MAX.
	1	SP1	55.0 65 0	setpoint in economy mode	r3 r4
	3	SP3	45.0	overboost activation threshold	10 °C/°F r2
∩=	4	SP5	55.0	heat pump switch-off threshold	r1 SP2
⊌⁼	5	SP6	75.0	photovoltaic system setpoint	40 100 °C/°F
-	6	SP7	5.0	setpoint in antifreeze mode	0 40 °C/°F
	7	SP8	40.0	setpoint in green mode	0 100 °C/°F
	8 9	SP9 SPA	-7.0	evaporator failure alarm threshold	-50 25 °C/°F
	No.	PAR.	DEF.	old ANALOGUE INPUTS	MIN MAX.
	10	CA1	0.0	DHW tank upper probe offset	-25 25 °C/°F
	11	CA2	0.0	DHW tank lower probe offset	-25 25 °C/°F
	12	CA3	0.0	evaporator probe offset	-25 25 °C/°F
	13	PO	1	type of probe	0 = PTC 1 = NTC 2 = Pt 1000
	14	P1	1	enable decimal point °C	0 = no $1 = yes$
	15	P2	0	temperature measurement unit	0 = °C 1 = °F
0	16	P3	1	enabled probes	0 = DHW tank upper probe + high pressure input 1 = DHW tank upper and lower probe
~	17	Ρ4	2	evaporator probe function	 U = disabled (defrost every d18 minutes) 1 = defrost activation and defrost end 2 = defrost activation
	18	P5	0	value displayed	0 = DHW tank upper tem- perature 1 = setpoint in comfort mode 2 = DHW tank lower tem- perature 3 = evaporator temperature
	19	P8	5	display refresh time	0 250 s: 10
	No.	PAR.	DEF.	REGULATION	MIN MAX.
	20	r0	3.0	setpoint differential	1 30 °C/°F
	21	rl	40.0	mınımum setpoint in comfort mode	10 °C/°F r2
	22	r2	70.0	maximum setpoint in comfort mode	r1 100 °C/°F
*	23	r3	40.0	minimum setpoint in economy mode	10 °C/°F r4
	24	r4	55.0	maximum setpoint in economy mode	r3 100 °C/°F
	25	r5	0	enable setpoint blocking in economy and comfort modes	0 = no 1 = yes
	26	r6	15.0	heater threshold in comfort mode	0 50 °C/°F
	27	r7	15.0	heater threshold differential in comfort mode	1 30 °C/°F
	No.	PAR.	DEF.	COMPRESSOR	MIN MAX.
	No. 28	PAR. C0	DEF. 5	COMPRESSOR compressor on delay from pow- er-on minimum time between two	0 240 min
	No. 28 29	PAR. C0 C1	DEF. 5 5	COMPRESSOR compressor on delay from pow- er-on minimum time between two power-ons of compressor	0 240 min
	No. 28 29 30	PAR. C0 C1 C2	DEF. 5 5 5	COMPRESSOR compressor on delay from pow- er-on minimum time between two power-ons of compressor minimum compressor-off time	0 240 min 0 240 min 0 240 min 0 240 min
	No. 28 29 30 31	PAR. C0 C1 C2 C3 C10	DEF. 5 5 5 0	COMPRESSOR compressor on delay from pow- er-on minimum time between two power-ons of compressor minimum compressor-off time minimum compressor-on time compressor bours for molistic	MIN MAX. 0 240 min 0 240 min 0 240 s 0 240 s
	No. 28 29 30 31 32	PAR. C0 C1 C2 C3 C10	DEF. 5 5 0 400	COMPRESSOR compressor on delay from pow- er-on minimum time between two power-ons of compressor minimum compressor-off time minimum compressor-on time compressor hours for mainte- nance	MIN MAX. 0 240 min 0 240 min 0 240 min 0 240 s 0 999 h x 100 0 = disabled

	34	C12	60	compressor-on delay from fan	0 240 s
	35	C13	20	on for cold evaporator control	0 240 min
		010		multi-purpose input reset	
	36	C14	20	compressor-on consecutive time	-1 240 min
	No	DAD	DEE	for evaporator failure control	-1 = disabled
	37	d1	2	type of defrost	0 = electric
					1 = hot gas
					2 = compressor stopped
					3 = hot gas balancing the
	38	d2	3.0	defrost end threshold	-50 50 °C/°F
	39	d3	30	defrost duration	0 99 min
•					0 = defrost disabled
•					If P4 = 1, maximum duration
					EV3B94N9PXRX01 and
					EV3B94N9VXRX01
	40	d17	-2.0	evaporation threshold for defrost	-50 50 °C/°F
	41	d10	20	interval count	0 240 min
	41	018	30	derrost interval	0 240 min 0 = manual only
	No.	PAR.	DEF.	ALARMS	MIN MAX.
	42	A0	0	select value for low temperature	0 = DHW tank upper tem-
				alarm	perature
					1 = DHW tank lower tem-
					2 = evaporator temperature
	43	A1	10.0	low temperature alarm threshold	0 50 °C/°F
	44	A2	0	low temperature alarm type	0 = disabled
	45	43	0	select value for high tempera-	1 = absolute
				ture alarm	perature
					1 = DHW tank lower tem-
					perature
13	46	A4	00.0	high tomporature alarm throch-	2 = evaporator temperature
	-10		50.0	old	default 75.0 in
					EV3B94N9PXRX01 and
					EV3B94N9VXRX01
	4/	A5	0	high temperature alarm type	0 = disabled 1 = absolute
	48	A6	120	high temperature alarm delay	0 240 min
				from power-on	
	49	A7	15	high/low temperature alarm de-	0 240 min
	50	A11	2.0	high/low temperature alarm re-	1 30 °C/°F
				set differential	
S	No.	PAR.	DEF.	FAN	MIN MAX.
•••	51 No.	PAR	DEF.	ANTI-LEGIONELLA	U = no I = yes
	52	НО	30	anti-legionella interval	0 99 d (days)
					0 = none
	53	H1	70.0	anti-legionella thermal threshold	10 199 °C/°F
	54	H3	2	anti-legionella thermal threshold	0 240 min
	No.	PAR.	DEF.	DIGITAL INPUTS	MIN MAX.
	55	iO	0	multi-purpose input function	0 = disabled
					1 = pressure switch
	56	:7		compressor on delay from pro-	2 = green
	50	12		sure switch alarm reset	0 120 11111
	57	i3	0	enable photovoltaic system	0 = no 1 = yes
	58	i4	1	photovoltaic system input acti-	0 = with contact closed
	50	15	1	vation	1 = with contact open
	59		1	nigh pressure input activation	1 = with contact closed
C,	60	i8	3	number of pressure switch	0 15
-				alarms for unit blocked alarm	0 = disabled
	61	i9	240	counter reset time for pressure	1 999 min
	62	i10	24	pressure switch alarm delay	0 240 sx10
		-		from compressor-on	
	63	i11	60	time pre opening hot gas defrost	0 240 s
	64	:12	•	valve	0 - 20 1 - 200
	64	112	0	switch/unit blocked alarm	default 1 in
					EV3B94N9PXRX01 and
					EV3B94N9VXRX01
•	No.	PAR.	DEF.	DIGITAL OUTPUTS	MIN MAX.
X	65	u0	1	enable relay K2 and relay K4 in-	u = no (defrost on K2) 1 = ves (defrost on K4)
	<u> </u>		<u> </u>	i eren	,
	65	u9	1	enable alarm buzzer	0 = no 1 = yes
	65	u9	1	enable alarm buzzer	0 = no 1 = yes

CODE	DESCRIPTION				RESET	TO CORRECT
Pr1	DHW alarm	tank	upper	probe	automatic	check P0check probe integrity
Pr2	DHW alarm	tank	lower	probe	automatic	- check electrical connection

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Pr3	evaporator probe alarm	automatic	
AL	low temperature alarm	automatic	check A0, A1 and A2
AH	high temperature alarm	automatic	check A3, A4 and A5
LHP	pressure switch/unit	automatic/	 switch the device off and on
	blocked alarm	manual	- check i0, i8 and i9
HP	high pressure alarm	manual	 switch the device off and on
			- check P3
FiL	compressor maintenance	automatic	check C10
	alarm		by silencing the buzzer you delete the
			compressor functioning hours
UtL	evaporator failure alarm	porator failure alarm manual - switch the device off and on	
			 check SPA and C14

10 TECHNICAL SPECIFICATIONS

Description	and the states of the			- 11 - 11		
Purpose of the	control device	ico	function controller			
Container	the control dev	ice	built-in electronic device			
Cotogomy of ho	at and fire recipi		black, self-extinguishing.			
Moscuromonts		lance	D.			
	50.0 mm (2.15/	16 x 1 5/16 x 2	75 0 × 33 0 ×	81 5 mm (2 15/16 x 1 5/16 x		
5/16 in) with fi	xed screw termi	inal blocks	3 3/16 in) with	plug-in screw terminal blocks		
Mounting meth	ods for the cont	rol device	to be fitted to a papel span-in brackets pro-			
			vided	vided		
Degree of prote	ection provided	by the covering	IP65 (front)			
Connection me	thod					
fixed screw ter	minal blocks for	wires up to 2.5	plug-in screw terminal blocks for wires up to			
mm ²			2.5 mm ² (on request).			
Maximum pern	nitted length for	connection cable	<u>s</u>			
power supply:	10 m (32.8 ft)		analogue inputs: 10 m (32.8 ft)			
digital inputs:	10 m (32.8 π)		Gigital outputs	10 m (32.8 m).		
Operating temp	ratura		From 0 to 55 °C (from 32 to 131 °F)			
Operating hum	idity		rolativo humi	from -25 to 70 °C (from -13 to 158 °F)		
Operating hum	luity		10 to 90%	alty without condensate from		
Pollution status	s of the control of	levice	2			
Compliance:			1			
RoHS 2011/65	/EC	WEEE 2012/19/	/EU	REACH (EC) Regulation no.		
				1907/2006		
EMC 2014/30/8	EU		LVD 2014/35/	EU		
Classification of	of the control d	evice according	class II acco	ording to standard EMC EN		
to protection fr	om electrical sh	ock	60730-1 §2.7.5.			
Power supply			115 230 VAC (+10% -15%), 50/60 Hz (±3			
			Hz), max. 3.2 VA insulated			
Earthing metho	ods for the contr	ol device	none			
Rated impulse-	withstand volta	ge	2.5 KV			
Over-voitage c	ategory		11.	II. •		
Apaloguo input	and structure		A.			
Analogue input	5		upper probe and evaporator probe)			
PTC probes	Sensor type:		KTY 81-121 (990 Ω @ 25 °C, 77 °F)			
	Measurement f	ield:	from -50 to 150 °C (from -58 to 302 °F)			
	Resolution:		0.1 °C (1 °F).			
NTC probes	Sensor type:		ß3435 (10 K□Ω @ 25 °C, 77 °F)			
	Measurement f	ield:	from -40 to 105 °C (from -40 to 221 °F)			
	Resolution:		0.1 °C (1 °F).			
Pt 1000	Measurement f	field:	from -100 to 650 °C (from -148 to 999 °F)			
probes						
	Resolution:		0.1 °C (1 °F).	0.1 °C (1 °F).		
Digital inputs			 z ury contact (photovoltaic and multi- purpose input) 			
Dury combo at		Contract to max	5 VDC 1 5 mA			
Dry contact		Contact type:		5 VDC, 1.5 MA		
		Power suppry.		none		
Other inputs		can be configur	ed for analogue	input (DHW tank lower probe)		
other inputs		or for digital in	out (high pressure input)			
Digital outputs		4 with electro-	mechanical relay (compressor, defrost, fans			
5		and heaters)				
Compressor re	lay (K1)		SPST, 16 A res. @ 250 VAC			
Relay K2			SPST, 8 A res. @ 250 VAC			
Fan relay (K3)			SPST, 5 A res. @ 250 VAC			
Relay K4			SPST, 5 A res. @ 250 VAC			
Type 1 or Type	2 Actions		Туре 1			
Additional feat	ures of Type 1	or Type 2 ac-	C.			
tions			sustam display 2 digit with further in a			
Displays			custom display, 3 digit, with function icons			
Alarm buzzer			Built-in			



N.B.

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

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