IDNext 978 P/CI -HC

Electronic controllers compatible with flammable refrigerant gases

Parameters Tables

by Schneider Electric

Legal Information

User Parameters IDNext 978 P/CI

Parameter	Description	Range	MU	Custom	Default	AP1	AP2	AP3
SEt	Control setpoint with range between the minimum **LSE** setpoint and the maximum **HSE** setpoint. The setpoint value is set in the 'Machine Status' menu.	**LSE**...**HSE**	°C/°F		3.0	3.0	0.0	-18.0
diF	Compressor relay activation differential; the compressor stops when the setpoint value is reached (as indicated by the control probe) and restarts at a temperature value equal to the setpoint plus the differential value.	0.1...30.0	°C/°F		2.0	2.0	2.0	2.0
LSE	Minimum setpoint value.	-67.0...**HSE**	°C/°F		-55.0	-55.0	-55.0	-55.0
HSE	Maximum setpoint value.	**LSE**...302	°C/°F		140.0	140.0	140.0	140.0
dEt	Defrost timeout. Determines the maximum duration of the defrost	1...250	min		30	30	30	30
dS1	Evaporator 1 defrost end temperature (measured by probe Pb2)	-67.0...302	°C/°F		8.0	8.0	8.0	8.0
dS2	Evaporator 2 defrost end temperature (measured by Pb3 if **H43** = 2EP)	-67.0...302	°C/°F		0.0	0.0	0.0	0.0
dit	Time interval between one defrost and the next	0...250	hours		6	6	6	6
FSt	Fan disabling temperature; a value, read by the evaporator probe.	-67.0...320	°C/°F		8.0	8.0	8.0	8.0
Fdt	Fan activation delay time after a defrost.	0...250	min		0	0	0	0
dt	Dripping time.	0...250	min		0	0	0	0
dFd	Used to select or deselect the exclusion of the evaporator fans during defrosting. • **n**(0) = no • **y**(1) = yes (fan excluded - off).	n/y	flag		y	y	y	y
HAL	Maximum temperature alarm. Temperature value (in an absolute or relative value - see **Att**) which, when exceeded, will lead to the activation of alarm signaling.	**LAL**...302	°C/°F		150.0	150.0	150.0	150.0
LAL	Minimum temperature alarm. Temperature value (in an absolute or relative value - see **Att**) which, when not reached, will lead to the activation of alarm signaling.	-67,0...**HAL**	°C/°F		-50.0	-50.0	-50.0	-50.0
CA1 (!)	Positive or negative temperature value to be added to the value of Pb1.	-30.0...30.0	°C/°F		0.0	0.0	0.0	0.0
CA2 (!)	Positive or negative temperature value to be added to the value of Pb2.	-30.0...30.0	°C/°F		0.0	0.0	0.0	0.0
PS1	When enabled (**PS1**≠0) this is the access key for the user parameters.	0...250	num		0	0	0	0
H42	Probe Pb2 present. • **n**(0) = not present • **y**(1) = present.	n/y	flag		y	y	y	y
tAb	Reserved: read-only parameter.	/	/		/ (not in applications)			

Note: the “User” menu parameters also include **PA2**, which allows access to the "Installer" menu.

Note: for the full list of parameters, see the section "**Installer parameters**".

Installer Parameters IDNext 978 P/CI

Parameter	Description	Range	MU	Custom	Default	AP1	AP2	AP3
SEt	Control setpoint with range between the minimum **LSE** setpoint and the maximum **HSE** setpoint. The setpoint value is set in the 'Machine Status' menu.	**LSE**...**HSE**	°C/°F		3.0	3.0	0.0	-18.0
CP (Compressor)								
diF	Compressor relay activation differential; the compressor stops when the setpoint value is reached (as indicated by the control probe) and restarts at a temperature value equal to the setpoint plus the differential value.	0.1...30.0	°C/°F		2.0	2.0	2.0	2.0
LSE	Minimum setpoint value.	-67.0...**HSE**	°C/°F		-55.0	-55.0	-55.0	-55.0
HSE	Maximum setpoint value.	**LSE**...302	°C/°F		140.0	140.0	140.0	140.0
HC	The regulator implements either cold operation (set "**C**(0)") or for hot (set "**H**(1)").	C/H	flag		0	0	0	0
ont	Regulator power-on time for a inoperable probe: • if **Ont** = 1 and **OFt** = 0 compressor is always on • if **Ont** = 1 and **OFt** > 0 compressor in duty cycle mode	0...250	min		15	15	15	15
oFt	Regulator power-off time for a inoperable probe: • if **OFt** = 1 and **Ont** = 0 compressor is always off • if **OFt** = 1 and **Ont** > 0 compressor in duty cycle mode	0...250	min		15	15	15	15
don	Compressor relay activation delay time after request	0...250	s		0	0	0	0
doF	Delay time after power-off: the delay time indicated must elapse between deactivation of the compressor relay and the next power-on.	0...250	min		0	0	0	0
dbi	Delay time between power-ons; the delay time indicated must elapse between two consecutive compressor power-ons.	0...250	min		0	0	0	0
Cit	Minimum compressor activation time before it can be deactivated. If **Cit** = 0 it is not active.	0...250	min		0	0	0	0
CAt	Maximum compressor activation time before it can be deactivated. If **CAt** = 0 it is not active.	0...250	min		0	0	0	0
odo (!)	Delay in activating outputs after the controller is powered on or after a power failure. **0** = not active.	0...250	min		0	0	0	0
dcS	"Deep Cooling Cycle" setpoint	-67.0...302	°C/°F		0.0	0.0	0.0	0.0
tdC	"Deep Cooling Cycle" duration	0...250	min		0	0	0	0
dcc	Defrost activation delay after a "Deep Cooling Cycle"	0...250	min		0	0	0	0
CP2	Compressor 2 activation delay.	0...250	min		0	0	0	0
dFA	Condenser fan and compressor activation delay from the request.	0...250	s		0	0	0	0
dEF (Defrost)								
dty	Type of defrost. • **0** = electric defrost or due to stoppage - compressor OFF during defrost • **1** = cycle inversion (hot gas) defrost; compressor on during defrost • **2** = defrost with "Free" mode; defrost independent of compressor.	0/1/2	num		0	0	0	0
doH	Defrost cycle activation delay from the call	0...250	min		0	0	0	0
dt2	Unit of measure for defrost duration (**dEt** parameter) (only if **dFt** ≠ 0). • **0** = hours • **1** = minutes • **2** = seconds.	0/1/2	num		1	1	1	1
dEt	Defrost timeout. Determines the maximum duration of the defrost	1...250	min		30	30	30	30

Parameter	Description	Range	MU	Custom	Default	AP1	AP2	AP3
dS1	Evaporator 1 defrost end temperature (measured by probe Pb2)	-67.0...302	°C/°F		8.0	8.0	8.0	8.0
dS2	Evaporator 2 defrost end temperature (measured by Pb3 if **H43** = 2EP)	-67.0...302	°C/°F		0.0	0.0	0.0	0.0
dPo	Defrost activation request at power-on, if the temperature measured by Pb2 allows. • **n**(0) = no • **y**(1) = yes.	n/y	flag		n	n	n	n
tCd	Minimum period of time with the compressor ON or OFF before defrost is activated.	-127...127	min		0	0	0	0
Cod	Time with the compressor OFF before defrost is activated	0...250	min		0	0	0	0
dMr	Enables the defrost count reset in the case of manual defrosting. • **n** = count reset does not take place • **y** = count reset takes place	n/y	flag		n	n	n	n
d00	Compressor running time before defrost is activated	0...250	hours		0	0	0	0
d01	**d00** unit of measure. • **0** = hours • **1** = minutes • **2** = seconds.	0/1/2	num		0	0	0	0
dit	Time interval between one defrost and the next	0...250	hours		6	6	6	6
d11	**dit** unit of measure. • **0** = hours • **1** = minutes • **2** = seconds.	0/1/2	num		0	0	0	0
d20	Can be used to activate the defrost when the compressor is off. • **0** = disabled. Defrost is not activated. • **1** = enabled. Defrost is activated when the compressor is off.	0/1	flag		0	0	0	0
d40	Enables/disables use of probe Pb2. • **0** = disabled. Defrost does not take Pb2 into account • **1** = enabled. Defrost runs according to the value read by Pb2 (only refers to defrost with threshold)	0/1	flag		0	0	0	0
d41	Sets the defrost activation threshold	-67.0...302	°C/°F		0.0	0.0	0.0	0.0
d42	Sets the maximum time for which the evaporator can remain under the threshold **d41**	0...250	min		0	0	0	0
d43	Sets the type of time count in which the evaporator temperature remains under the threshold value. • **0** = count independent of the compressor status • **1** = count with compressor on (when the compressor is off the count begins again) • **2** = count independent of the compressor status. The count stops when the temperature rises above the threshold **d41** • **3** = count with compressor on and until the temperature rises above the threshold **d41**	0...3	num		0	0	0	0
d44	Sets the threshold management mode. • **0** = absolute value (for example: **d41** = -25°C means that the threshold temperature is exactly -25°C) • **1** = relative value (negative offset, relative to the value measured by the defrost probe Pb2 (if **d40** = 1) at the end of the first cooling cycle or on power-on)	0/1	flag		0	0	0	0
d90	Sets the defrost mode with RTC. • **0** = RTC disabled • **1** = Reserved • **2** = RTC at fixed intervals (**d91**) • **3** = Regular RTC (**d94**)	0...3	num		0	0	0	0

Parameter	Description	Range	MU	Custom	Default	AP1	AP2	AP3
d91	Sets the number of daily defrosts (only if **d90**=2)	0...255	num		0	0	0	0
d92	Sets the first weekend/holiday day. • **0** = Sunday • **1** = Monday • **2** = Tuesday • **3** = Wednesday • **4** = Thursday • **5** = Friday • **6** = Saturday • **7** = Disabled	0...7	num		0	0	0	0
d93	Sets the second weekend/holiday day. Same as **d92**.	0...7	num		0	0	0	0
d94	Sets the duration of the regular defrost in days (only if **d90**=3).	1...7	num		1	1	1	1
d1H	1st weekday defrost start hour. • **0...23** = start hour • **24** = disabled	0...24	hours		0 (not in applications)			
d1n	1st weekday defrost start minutes.	0...59	min		0 (not in applications)			
F1H	1st weekend/holiday defrost start hour. • **0...23** = start hour • **24** = disabled	0...24	hours		0 (not in applications)			
F1n	1st weekend/holiday defrost start minutes.	0...59	min		0 (not in applications)			
Fan (Fans)								
FPt	Sets whether parameter **FSt** is expressed as an absolute temperature value or as a value relative to the Setpoint. • **0** = absolute • **1** = relative.	0/1	flag		0	0	0	0
FSt	Fan disabling temperature; a value, read by the evaporator probe.	-67.0...320	°C/°F		8.0	8.0	8.0	8.0
FAd	Evaporator fan trigger differential.	0.1...25.0	°C/°F		2.0	2.0	2.0	2.0
Fdt	Fan activation delay time after a defrost.	0...250	min		0	0	0	0
dt	Dripping time.	0...250	min		0	0	0	0
dFd	Used to select or deselect the exclusion of the evaporator fans during defrosting. • **n**(0) = no • **y**(1) = yes (fan excluded - off).	n/y	flag		y	y	y	y

<table>
<tr><th>Parameter</th><th>Description</th><th>Range</th><th>MU</th><th>Custom</th><th>Default</th><th>AP1</th><th>AP2</th><th>AP3</th></tr>
<tr><td>FCo</td><td>Evaporator fan operating mode.
<table>
<tr><th rowspan="2">Pb2</th><th rowspan="2">H42</th><th rowspan="2">FCo</th><th colspan="2">day</th><th colspan="2">night</th></tr>
<tr><th>Cn</th><th>Cf</th><th>Cn</th><th>Cf</th></tr>
<tr><td rowspan="4">ok</td><td rowspan="4">y</td><td>0</td><td>T</td><td>Off</td><td>T</td><td>Off</td></tr>
<tr><td>1</td><td>T</td><td>T</td><td>T</td><td>T</td></tr>
<tr><td>2</td><td>T</td><td>DCd</td><td>T</td><td>DCn</td></tr>
<tr><td>3</td><td>T</td><td>DCd</td><td>T</td><td>DCn</td></tr>
<tr><td rowspan="4">ko</td><td rowspan="4">y</td><td>0</td><td>On</td><td>Off</td><td>On</td><td>Off</td></tr>
<tr><td>1</td><td>On</td><td>On</td><td>On</td><td>On</td></tr>
<tr><td>2</td><td>On</td><td>DCd</td><td>On</td><td>DCd</td></tr>
<tr><td>3</td><td>On</td><td>DCd</td><td>On</td><td>DCd</td></tr>
<tr><td rowspan="4">no</td><td rowspan="4">n</td><td>0</td><td>On</td><td>Off</td><td>On</td><td>Off</td></tr>
<tr><td>1</td><td>On</td><td>On</td><td>On</td><td>On</td></tr>
<tr><td>2</td><td>On</td><td>DCd</td><td>On</td><td>DCd</td></tr>
<tr><td>3</td><td>On</td><td>DCd</td><td>On</td><td>DCd</td></tr>
</table>
Headings legend:
Pb2 = probe Pb2 status (ok = present; ko = in E2 error and no = absent; day = day mode; night = night mode; Cn = compressor on; Cf = compressor off.
Status legend:
T = thermostat controlled fans; On = fans on; Off= fans off; DCd = Day duty cycle or DCn = Night duty cycle.</td><td>0...3</td><td>num</td><td></td><td>1</td><td>1</td><td>1</td><td>1</td></tr>
<tr><td>Fon</td><td>Day duty cycle: time with fans on.</td><td>0...250</td><td>min</td><td></td><td>0</td><td>0</td><td>0</td><td>0</td></tr>
<tr><td>FoF</td><td>Day duty cycle: time with fans off.</td><td>0...250</td><td>min</td><td></td><td>0</td><td>0</td><td>0</td><td>0</td></tr>
<tr><td>Fnn</td><td>Night duty cycle: time with fans on.</td><td>0...250</td><td>min</td><td></td><td>0</td><td>0</td><td>0</td><td>0</td></tr>
<tr><td>FnF</td><td>Night duty cycle: time with fans off.</td><td>0...250</td><td>min</td><td></td><td>0</td><td>0</td><td>0</td><td>0</td></tr>
<tr><td>ESF</td><td>"Night" mode activation.
• n(0) = no
• y(1) = yes.</td><td>n/y</td><td>flag</td><td></td><td>n</td><td>n</td><td>n</td><td>n</td></tr>
<tr><td colspan="9">AL (Alarms)</td></tr>
<tr><td>Att</td><td>Sets the absolute or relative value for parameters HAL and LAL.
• 0 = absolute value
• 1 = relative value</td><td>0/1</td><td>flag</td><td></td><td>0</td><td>0</td><td>0</td><td>0</td></tr>
<tr><td>AFd</td><td>Alarm differential.</td><td>0,1...25,0</td><td>°C/°F</td><td></td><td>2.0</td><td>2.0</td><td>2.0</td><td>2.0</td></tr>
<tr><td>HAL</td><td>Maximum temperature alarm.
Temperature value (in an absolute or relative value - see Att) which, when exceeded, will lead to the activation of alarm signaling.</td><td>LAL...302</td><td>°C/°F</td><td></td><td>150.0</td><td>150.0</td><td>150.0</td><td>150.0</td></tr>
<tr><td>LAL</td><td>Minimum temperature alarm.
Temperature value (in an absolute or relative value - see Att) which, when not reached, will lead to the activation of alarm signaling.</td><td>-67,0...HAL</td><td>°C/°F</td><td></td><td>-50.0</td><td>-50.0</td><td>-50.0</td><td>-50.0</td></tr>
<tr><td>PAo</td><td>Alarm exclusion time when switching on the controller, after a power failure.</td><td>0...10</td><td>min*10</td><td></td><td>0</td><td>0</td><td>0</td><td>0</td></tr>
<tr><td>dAo</td><td>Temperature alarm exclusion time after defrosting.</td><td>0...999</td><td>min</td><td></td><td>0</td><td>0</td><td>0</td><td>0</td></tr>
<tr><td>oAo</td><td>Alarm signaling delay after deactivation of the digital input (door closure). Alarm refers to high and low temperature alarms.</td><td>0...10</td><td>hours</td><td></td><td>0</td><td>0</td><td>0</td><td>0</td></tr>
<tr><td>tdo</td><td>Door open alarm activation delay time.</td><td>0...250</td><td>min</td><td></td><td>0</td><td>0</td><td>0</td><td>0</td></tr>
<tr><td>tAo</td><td>Temperature alarm signaling delay time.</td><td>0...250</td><td>min</td><td></td><td>0</td><td>0</td><td>0</td><td>0</td></tr>
<tr><td>dAt</td><td>Defrost ended due to timeout alarm indication.
• n(0) = alarm not activated
• y(1) = alarm activated.</td><td>n/y</td><td>flag</td><td></td><td>0</td><td>0</td><td>0</td><td>0</td></tr>
</table>

Parameter	Description	Range	MU	Custom	Default	AP1	AP2	AP3
EAL	An external alarm inhibits the regulators. • **0** = does not inhibit the regulators • **1** = compressor and defrost inhibited • **2** = fans, compressor and defrost inhibited;	0/1/2	flag		n	n	n	n
AoP	Alarm output polarity. • **0** = NO (Normally open) • **1** = NC (Normally closed).	0/1	flag		1	1	1	1
SA3	Probe 3 alarm setpoint.	-67,0...302	°C/°F		0.0	0.0	0.0	0.0
dA3	Probe 3 alarm differential.	0.1...30.0	°C/°F		1.0	1.0	1.0	1.0
rFt	Low refrigerant alarm signaling delay.	0...250	min		0 (non nelle applicazioni)			
Lit (Lights and digital inputs)								
dOd	Digital input shuts off utilities. • **0** = disabled • **1** = disables fans • **2** = disables compressor • **3** = disables fans and compressor.	0...3	num		0	0	3	3
dAd	Digital input activation delay	0...250	min		0	0	0	0
dCo	Compressor switch-off delay from door opening.	0...250	min		0	0	1	0
AUP	Auxiliary (AUX) output activation when the door is opened. • **n**(0) = disabled • **y**(1) = AUX output activation	n/y	flag		n	n	n	n
PrE (Pressure switch)								
PEn	Number of errors permitted per minimum/maximum pressure switch input	0...15	num		0	0	0	0
PEi	Minimum/maximum pressure switch error count interval	1...99	min		1	1	1	1
PEt	Compressor activation delay after pressure switch deactivation	0...255	min		0	0	0	0
EnS (Energy Saving)								
oSP	Temperature value to be added to the setpoint in the case of an enabled reduced set (Economy function).	-30.0...30.0	°C/°F		0.0	0.0	0.0	0.0
odF	Differential offset during an energy saving cycle or reduced set.	0.1...30.0	°C/°F		2.0	2.0	2.0	2.0
Add (Communication)								
Adr	Modbus protocol controller address.	1...247	num		1 (not in applications)			
bAU	Modbus Baudrate selection. • **96** (0) = 9600 baud • **192** (1) = 19200 baud • **384** (2) = 38400 baud	96/192/384	num		96 (not in applications)			
Pty	Modbus parity bit. • **n**(0) = none • **E**(1) = even • **o**(2) = odd.	n/E/o	num		E (not in applications)			
diS (Display)								
dro	Selects the unit of measure used when displaying the temperature read by the probes. (**0** = °C, **1** = °F). **Note**: changing from °C to °F or vice-versa does NOT change the **SEt**, **diF** values, etc. (example: **SEt** = 10°C becomes 10°F).	0/1	flag		0	0	0	0
CA1 (!)	Positive or negative temperature value to be added to the value of Pb1.	-30.0...30.0	°C/°F		0.0	0.0	0.0	0.0
CA2 (!)	Positive or negative temperature value to be added to the value of Pb2.	-30.0...30.0	°C/°F		0.0	0.0	0.0	0.0
CA3 (!)	Positive or negative temperature value to be added to the value of Pb3.	-30.0...30.0	°C/°F		0.0	0.0	0.0	0.0

Parameter	Description	Range	MU	Custom	Default	AP1	AP2	AP3
CAi	Activation of the calibration value. • **0** = Adds the value to the temperature value displayed • **1** = Adds the value to the temperature used by the regulators and not to the one displayed • **2** = Adds the value to the temperature used by the regulators and to the temperature displayed.	0/1/2	num		2	2	2	2
LoC	Keypad lock. • **n**(0) = Keypad lock disabled • **y**(1) = Keypad lock enabled (on startup or when 30 seconds have passed since the last action carried out on the user interface)	n/y	flag		y	y	y	y
ddd	Selects the type of value to show on the display. • **0** = setpoint • **1** = Pb1 probe • **2** = Pb2 probe • **3** = Pb3 probe.	0...3	num		1	1	1	1
ddL	Display mode during defrosting. • **0** = display the temperature read by Pb1 • **1** = inhibits reading on the value of Pb1 at the start of defrost and until the setpoint is reached • **2** = displays label **dEF** during defrost until the setpoint is reached.	0/1/2	num		0	0	0	0
Ldd	Display unlock timeout value - label **dEF**	0...250	min		30	30	30	30
ndt	Display with decimal point. • **n**(0) = no • **y**(1) = yes.	n/y	flag		y	y	y	y
FSE	Sets the value (COEFF) used by the low-pass filter to calculate the temperature value to be displayed. • **0** = disabled • **1** = 200 • **2** = 100 • **3** = 50 • **4** = 25 • **5** = 12 • **6** = 6 • **7** = 3.	0...7	num		0	0	0	0
FdS	Filter disabling threshold.	-67.0...302	°C/°F		0.0	0.0	0.0	0.0
Ftt	Time that has passed beyond the value of **FdS** before the filter is disabled.	0...250	min		0	0	0	0
FHt	Filter sampling interval.	1...250	s		1	1	1	1
PS1	When enabled (**PS1**≠0) this is the access key for the user parameters.	0...250	num		0	0	0	0
PS2	When enabled (**PS2**≠0) this is the access key for the installer parameters.	0...250	num		15	15	15	15
VSC (Variable-speed compressor)								
CEr	Controlled capacity value in the event of regulation probe error.	0.0...100	%		50.0	50.0	50.0	5.0
PdS	Differential for forced activation of a pull-down.	-50.0...50.0	K/°R		3.0	3.0	3.0	0.3
PUS	Differential for forced activation of a pull-up.	-50.0...50.0	K/°R		-3.0	-3.0	-3.0	-0.3
PUd	Temperature outside range timeout. The timer is activated when the regulation probe reaches a value greater than **SEt+PdS** (for Pull Down) or less than **SEt+PuS** (for Pull Up). When the timer runs out, a Pull Down or Pull Up procedure will be started depending on the zone in which the probe is located. If the temperature recovers before the end of this timed period, the timer is reloaded.	0...1000	min		4	4	4	4
PdE	Pull-down end differential.	-50.0...50.0	K/°R		0.0	0.0	0.0	0.0
PUE	Pull-up end differential. If a pull-up is activated when the timer **PUd** runs out, the compressor is stopped until **SEt+PUE** is reached.	-50.0...50.0	K/°R		0.0	0.0	0.0	0.0
Pdt	Optimized pull-down timeout.	0...1000	min		10	10	10	10

Parameter	Description	Range	MU	Custom	Default	AP1	AP2	AP3
Pdd	Controlled capacity value, if a pull-down is activated, when the time period **PUd** has elapsed, that will be maintained: • for a time period **Pdt** at the end of which the capacity will be forced to 100% until **SEt+PdE** is reached. • until the temperature **SEt+PdE** is reached (if the time < Pdt).	0.0...100	%		60.0	60.0	60.0	6.0
CPd	Controlled capacity after a pull-down in day operating mode.	0.0...100	%		60.0	60.0	60.0	6.0
CPn	Controlled capacity after a pull-down in night operating mode.	0.0...100	%		50.0	50.0	50.0	5.0
CPb	PID regulator proportional band.	0.1...3200	K/°R		3.0	3.0	3.0	0.3
Cti	PID integral time.	0...65535	s		60	60	60	60
Ctd	PID derivative time.	0...65535	s		0	0	0	0
CSd	Duration of constant-speed compressor heating (set by **CSC**) on startup or after a stand-by.	0...900	s		120	120	120	120
CSC	Fixed compressor capacity for a time period equal to **CSd** on startup or after a stand-by.	44.4...100	%		80.0	80.0	80.0	8.0
CAU	Selects automatic or manual PID mode. • **0** = automatic • **1** = manual.	0/1	flag		0	0	0	0
CdU	PID duty cycle in manual mode. If **CAU** = **AUt**, **CdU** will function as a maximum controlled capacity limiter (%). If **CAU** = **FiH**, **CdU** will force controlled capacity of the compressor (%).	0.0...100	%		100	100	100	10
F_1	Maximum compressor operating frequency.	0.0...250	Hz		150	150	150	150
F_2	Minimum compressor operating frequency.	0.0...250	Hz		67	67	67	67
CnF (Configuration)								
H00	Selects the probe type. • **0** = PTC • **1** = NTC • **2** = Pt1000.	0/1/2	flag		1	1	1	1
H08	Stand-by operating mode. • **0** = display off; the regulators are active and the device signals possible alarms by reactivating the display • **1** = display off; the regulators and the alarms are blocked • **2** = the display shows the label “OFF”; the regulators and alarms are inhibited.	0/1/2	num		2	2	2	2
H11	Configurazione ingresso digitale 1 (**DI**)/ polarità. • **0** = disabilitato • **±1** = sbrinamento • **±2** = set ridotto • **±3** = ausiliario • **±4** = micro-porta • **±5** = allarme esterno • **±6** = stand-by • **±7** = pressostato • **±8** = abbattimento rapido • **±9** = luce • **±10** = risparmio energetico **Nota**: • segno “+” indica che l’ingresso è attivo se il contatto è chiuso. • segno “-” indica che l’ingresso è attivo se il contatto è aperto.	-10...+10	num		0	0	-4	-4

Parameter	Description	Range	MU	Custom	Default	AP1	AP2	AP3
H21	Configuration of digital output 1 (**OC1**). • **0** = disabled • **1** = compressor • **2** = defrost • **3** = evaporator fans • **4** = alarm • **5** = auxiliary • **6** = stand-by • **7** = light • **8** = reserved • **9** = compressor 2 • **10** = evaporator 2 defrost • **11** = condenser fans • **12** = heater deadband control • **13** = variable-speed compressor (VSC).	0...13	num		13	13	13	13
H22	Configuration of digital output 2 (**Out2**). • **0** = disabled • **1** = compressor • **2** = defrost • **3** = evaporator fans • **4** = alarm • **5** = auxiliary • **6** = stand-by • **7** = light • **8** = reserved • **9** = compressor 2 • **10** = evaporator 2 defrost • **11** = condenser fans • **12** = heater deadband control.	0...12	num		2	2	2	2
H23	Configuration of digital output 3 (**Out3**). Same as **H22**.	0...12	num		4	4	7	7
H24	Configuration of digital output 4 (**Out4**). Same as **H22**.	0...12	num		3	3	3	3
H31	Configuration of △ key. • **0** = disabled • **1** = defrost • **2** = auxiliary • **3** = reduced set • **4** = stand-by • **5** = Autotuning procedure **nPL** • **6** = Autotuning procedure **tun** • **7** = deep cooling • **8** = light.	0...8	num		1	1	1	1
H32	Configuration of ▽ key. Same as **H31**.	0...8	num		0	0	0	0
H33	Configuration of ⏻ key. Same as **H31**.	0...8	num		4	4	4	4
H34	Configuration of key. Same as **H31**.	0...8	num		0	0	0	0
H35	Configuration of ☆ key. Same as **H31**.	0...8	num		0	0	0	0
H42	Probe Pb2 present. • **n**(0) = not present • **y**(1) = present.	n/y	flag		y	y	y	y
H43	Probe Pb3 present. • **n**(0) = not present • **y**(1) = present • **2EP**(2) = second evaporator.	n/y/2EP	flag		n	n	n	n
H45	Defrost input mode for applications with dual evaporator. **0** = first evaporator only; **1** = if at least one of the evaporators is below its defrost end temperature; **2** = only if both evaporators are under the respective defrost end temperature; **3** = evaporator 1 and evaporator 2 alternately.	0...3	num		0	0	0	0
H48	RTC (Real Time Clock) present. • **0** = no RTC • **1** = RTC present.	0/1	flag		0	0	0	0
H60	Display selected application. **0** = disabled; **1** = AP1; **2** = AP2; **3** = AP3.	0...3	num		1 (not in applications)			

Parameter	Description	Range	MU	Custom	Default	AP1	AP2	AP3
tAb	Reserved: read-only parameter.	/	/		/ (not in applications)			
FPr (UNICARD)								
UL	Transfer of the programming parameters from the controller to the UNICARD.	/	/		- (not in applications)			
Fr	UNICARD formatting. Deletes all data on the UNICARD. **Note**: the use of parameter **Fr** results in the loss of all data entered. This operation cannot be reversed.	/	/		- (not in applications)			
FnC (Functions)								
tAL	Force alarm acknowledgment	/	/		- (not in applications)			
rAP	Reset pressure switch alarms	/	/		- (not in applications)			
tun	Autotuning activation/deactivation	/	/		- (not in applications)			
nPL	Preliminary Autotuning procedure activation/deactivation.	/	/		- (not in applications)			
Cnt	Reset TelevisAir diagnostic counters (see Reset TelevisAir diagnostic counters)	/	/		- (not in applications)			
nAd (Night and Day)								
E10	Selects Event 1 activation mode. **0** = disabled; **1** = Monday; **2** = Tuesday; **3** = Wednesday; **4** = Thursday; **5** = Friday; **6** = Saturday; **7** = Sunday; **8** = Monday to Friday; **9** = Monday to Saturday; **10** = Saturday and Sunday; **11** = every day.	0...11	num		0 (not in applications)			
E11	Event 1 start hour.	0...23	hours		0 (not in applications)			
E12	Event 1 start minute.	0...59	min		0 (not in applications)			
E13	Event 1 end hour.	0...23	hours		0 (not in applications)			
E14	Event 1 end minute.	0...59	min		0 (not in applications)			
E15	Sets Event 1 type. **0** = Energy Saving; **1** = AUX deactivated; **2** = AUX activated; **3** = Stand-by; **4** = Light on; **5** = Light off.	0...5	num		0 (not in applications)			
E20	Selects Event 2 activation mode. Same as **E10**.	0...11	num		0 (not in applications)			
E21	Event 2 start hour.	0...23	hours		0 (not in applications)			
E22	Event 2 start minute.	0...59	min		0 (not in applications)			
E23	Event 2 end hour.	0...23	hours		0 (not in applications)			
E24	Event 2 end minute.	0...59	min		0 (not in applications)			
E25	Sets Event 2 type. Same as **E15**.	0...5	num		0 (not in applications)			

Note: if one or more parameters in folder **CnF** or marked with (!) are changed, the controller must be switched off and then on again to make sure it works properly.

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