

# IDNext 974 P/CI -HC

Electronic controllers compatible with flammable refrigerant gases

## Parameters Tables



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## User Parameters IDNext 974 P/CI

Parameter	Description	Range	MU	Custom	Default	AP1	AP2	AP3
<b>SEt</b>	Control setpoint with range between the minimum <b>LSE</b> setpoint and the maximum <b>HSE</b> setpoint. The setpoint value is set in the 'Machine Status' menu.	<b>LSE...HSE</b>	°C/°F		3.0	3.0	0.0	-18.0
<b>dIF</b>	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
<b>LSE</b>	Minimum setpoint value.	-67.0... <b>HSE</b>	°C/°F		-55.0	-55.0	-55.0	-55.0
<b>HSE</b>	Maximum setpoint value.	<b>LSE</b> ...302	°C/°F		140.0	140.0	140.0	140.0
<b>dEt</b>	Defrost timeout. Determines the maximum duration of the defrost	1...250	min		30	30	30	30
<b>dS1</b>	Evaporator 1 defrost end temperature (measured by probe Pb2)	-67.0...302	°C/°F		8.0	8.0	8.0	8.0
<b>dS2</b>	Evaporator 2 defrost end temperature (measured by Pb3 if <b>H43</b> = 2EP)	-67.0...302	°C/°F		0.0	0.0	0.0	0.0
<b>dit</b>	Time interval between one defrost and the next	0...250	hours		6	6	6	6
<b>FSt</b>	Fan disabling temperature; a value, read by the evaporator probe.	-67.0...320	°C/°F		8.0	8.0	8.0	8.0
<b>Fdt</b>	Fan activation delay time after a defrost.	0...250	min		0	0	0	0
<b>dt</b>	Dripping time.	0...250	min		0	0	0	0
<b>dFd</b>	Used to select or deselect the exclusion of the evaporator fans during defrosting. <ul style="list-style-type: none"> <li>• <b>n</b>(0) = no</li> <li>• <b>y</b>(1) = yes (fan excluded - off).</li> </ul>	n/y	flag		y	y	y	y
<b>HAL</b>	Maximum temperature alarm. Temperature value (in an absolute or relative value - see <b>Att</b> ) which, when exceeded, will lead to the activation of alarm signaling.	<b>LAL</b> ...302	°C/°F		150.0	150.0	150.0	150.0
<b>LAL</b>	Minimum temperature alarm. Temperature value (in an absolute or relative value - see <b>Att</b> ) which, when not reached, will lead to the activation of alarm signaling.	-67,0... <b>HAL</b>	°C/°F		-50.0	-50.0	-50.0	-50.0
<b>CA1 (!)</b>	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
<b>CA2 (!)</b>	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
<b>PS1</b>	When enabled ( <b>PS1</b> ≠0) this is the access key for the user parameters.	0...250	num		0	0	0	0
<b>H42</b>	Probe Pb2 present. <ul style="list-style-type: none"> <li>• <b>n</b>(0) = not present</li> <li>• <b>y</b>(1) = present.</li> </ul>	n/y	flag		y	y	y	y
<b>tAb</b>	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 974 P/CI

Parameter	Description	Range	MU	Custom	Default	AP1	AP2	AP3
<b>SEt</b>	Control setpoint with range between the minimum <b>LSE</b> setpoint and the maximum <b>HSE</b> setpoint. The setpoint value is set in the 'Machine Status' menu.	<b>LSE...HSE</b>	°C/°F		3.0	3.0	0.0	-18.0
<b>CP (Compressor)</b>								
<b>diF</b>	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
<b>LSE</b>	Minimum setpoint value.	-67.0... <b>HSE</b>	°C/°F		-55.0	-55.0	-55.0	-55.0
<b>HSE</b>	Maximum setpoint value.	<b>LSE</b> ...302	°C/°F		140.0	140.0	140.0	140.0
<b>HC</b>	The regulator implements either cold operation (set " <b>C</b> (0)") or for hot (set " <b>H</b> (1)").	C/H	flag		0	0	0	0
<b>ont</b>	Regulator power-on time for a inoperable probe: <ul style="list-style-type: none"> <li>if <b>Ont</b> = 1 and <b>OFt</b> = 0 compressor is always on</li> <li>if <b>Ont</b> = 1 and <b>OFt</b> &gt; 0 compressor in duty cycle mode</li> </ul>	0...250	min		15	15	15	15
<b>oFt</b>	Regulator power-off time for a inoperable probe: <ul style="list-style-type: none"> <li>if <b>OFt</b> = 1 and <b>Ont</b> = 0 compressor is always off</li> <li>if <b>OFt</b> = 1 and <b>Ont</b> &gt; 0 compressor in duty cycle mode</li> </ul>	0...250	min		15	15	15	15
<b>don</b>	Compressor relay activation delay time after request	0...250	s		0	0	0	0
<b>doF</b>	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
<b>dbi</b>	Delay time between power-ons; the delay time indicated must elapse between two consecutive compressor power-ons.	0...250	min		0	0	0	0
<b>Cit</b>	Minimum compressor activation time before it can be deactivated. If <b>Cit</b> = 0 it is not active.	0...250	min		0	0	0	0
<b>CAt</b>	Maximum compressor activation time before it can be deactivated. If <b>CAt</b> = 0 it is not active.	0...250	min		0	0	0	0
<b>odo (!)</b>	Delay in activating outputs after the controller is powered on or after a power failure. <b>0</b> = not active.	0...250	min		0	0	0	0
<b>dcS</b>	"Deep Cooling Cycle" setpoint	-67.0...302	°C/°F		0.0	0.0	0.0	0.0
<b>tdC</b>	"Deep Cooling Cycle" duration	0...250	min		0	0	0	0
<b>dcc</b>	Defrost activation delay after a "Deep Cooling Cycle"	0...250	min		0	0	0	0
<b>CP2</b>	Compressor 2 activation delay.	0...250	min		0	0	0	0
<b>dFA</b>	Condenser fan and compressor activation delay from the request.	0...250	s		0	0	0	0
<b>dEF (Defrost)</b>								
<b>dty</b>	Type of defrost. <ul style="list-style-type: none"> <li><b>0</b> = electric defrost or due to stoppage - compressor OFF during defrost</li> <li><b>1</b> = cycle inversion (hot gas) defrost; compressor on during defrost</li> <li><b>2</b> = defrost with "Free" mode; defrost independent of compressor.</li> </ul>	0/1/2	num		0	0	0	0
<b>doH</b>	Defrost cycle activation delay from the call	0...250	min		0	0	0	0
<b>dEt</b>	Defrost timeout. Determines the maximum duration of the defrost	1...250	min		30	30	30	30
<b>dS1</b>	Evaporator 1 defrost end temperature (measured by probe Pb2)	-67.0...302	°C/°F		8.0	8.0	8.0	8.0
<b>dS2</b>	Evaporator 2 defrost end temperature (measured by Pb3 if <b>H43</b> = 2EP)	-67.0...302	°C/°F		0.0	0.0	0.0	0.0

Parameter	Description	Range	MU	Custom	Default	AP1	AP2	AP3
<b>dPo</b>	Defrost activation request at power-on, if the temperature measured by Pb2 allows. <ul style="list-style-type: none"> <li><b>n(0)</b> = no</li> <li><b>y(1)</b> = yes.</li> </ul>	n/y	flag		n	n	n	n
<b>tCd</b>	Minimum period of time with the compressor ON or OFF before defrost is activated.	-127...127	min		0	0	0	0
<b>Cod</b>	Time with the compressor OFF before defrost is activated	0...250	min		0	0	0	0
<b>dMr</b>	Enables the defrost count reset in the case of manual defrosting. <ul style="list-style-type: none"> <li><b>n</b> = count reset does not take place</li> <li><b>y</b> = count reset takes place</li> </ul>	n/y	flag		n	n	n	n
<b>d00</b>	Compressor running time before defrost is activated	0...250	hours		0	0	0	0
<b>d01</b>	<b>d00</b> unit of measure. <ul style="list-style-type: none"> <li><b>0</b> = hours</li> <li><b>1</b> = minutes</li> <li><b>2</b> = seconds.</li> </ul>	0/1/2	num		0	0	0	0
<b>dit</b>	Time interval between one defrost and the next	0...250	hours		6	6	6	6
<b>d11</b>	<b>dit</b> unit of measure. <ul style="list-style-type: none"> <li><b>0</b> = hours</li> <li><b>1</b> = minutes</li> <li><b>2</b> = seconds.</li> </ul>	0/1/2	num		0	0	0	0
<b>d20</b>	Can be used to activate the defrost when the compressor is off. <ul style="list-style-type: none"> <li><b>0</b> = disabled. Defrost is not activated.</li> <li><b>1</b> = enabled. Defrost is activated when the compressor is off.</li> </ul>	0/1	flag		0	0	0	0
<b>d40</b>	Enables/disables use of probe Pb2. <ul style="list-style-type: none"> <li><b>0</b> = disabled. Defrost does not take Pb2 into account</li> <li><b>1</b> = enabled. Defrost runs according to the value read by Pb2 (only refers to defrost with threshold)</li> </ul>	0/1	flag		0	0	0	0
<b>d41</b>	Sets the defrost activation threshold	-67.0...302	°C/°F		0.0	0.0	0.0	0.0
<b>d42</b>	Sets the maximum time for which the evaporator can remain under the threshold <b>d41</b>	0...250	min		0	0	0	0
<b>d43</b>	Sets the type of time count in which the evaporator temperature remains under the threshold value. <ul style="list-style-type: none"> <li><b>0</b> = count independent of the compressor status</li> <li><b>1</b> = count with compressor on (when the compressor is off the count begins again)</li> <li><b>2</b> = count independent of the compressor status. The count stops when the temperature rises above the threshold <b>d41</b></li> <li><b>3</b> = count with compressor on and until the temperature rises above the threshold <b>d41</b></li> </ul>	0...3	num		0	0	0	0
<b>d44</b>	Sets the threshold management mode. <ul style="list-style-type: none"> <li><b>0</b> = absolute value (for example: <b>d41</b> = -25°C means that the threshold temperature is exactly -25°C)</li> <li><b>1</b> = relative value (negative offset, relative to the value measured by the defrost probe Pb2 (if <b>d40</b> = 1) at the end of the first cooling cycle or on power-on)</li> </ul>	0/1	flag		0	0	0	0
<b>d90</b>	Sets the defrost mode with RTC. <ul style="list-style-type: none"> <li><b>0</b> = RTC disabled</li> <li><b>1</b> = Reserved</li> <li><b>2</b> = RTC at fixed intervals (<b>d91</b>)</li> <li><b>3</b> = Regular RTC (<b>d94</b>)</li> </ul>	0...3	num		-	-	-	-
<b>d91</b>	Sets the number of daily defrosts (only if <b>d90</b> =2)	0...255	num		-	-	-	-

Parameter	Description	Range	MU	Custom	Default	AP1	AP2	AP3
<b>d92</b>	Sets the first weekend/holiday day. <ul style="list-style-type: none"> <li>• 0 = Sunday</li> <li>• 1 = Monday</li> <li>• 2 = Tuesday</li> <li>• 3 = Wednesday</li> <li>• 4 = Thursday</li> <li>• 5 = Friday</li> <li>• 6 = Saturday</li> <li>• 7 = Disabled</li> </ul>	0...7	num		-	-	-	-
<b>d93</b>	Sets the second weekend/holiday day. Same as <b>d92</b> .	0...7	num		-	-	-	-
<b>d94</b>	Sets the duration of the regular defrost in days (only if <b>d90=3</b> ).	1...7	num		-	-	-	-
<b>d1H</b>	1st weekday defrost start hour. <ul style="list-style-type: none"> <li>• 0...23 = start hour</li> <li>• 24 = disabled</li> </ul>	0...24	hours		0 (not in applications)			
<b>d1n</b>	1st weekday defrost start minutes.	0...59	min		0 (not in applications)			
<b>F1H</b>	1st weekend/holiday defrost start hour. <ul style="list-style-type: none"> <li>• 0...23 = start hour</li> <li>• 24 = disabled</li> </ul>	0...24	hours		0 (not in applications)			
<b>F1n</b>	1st weekend/holiday defrost start minutes.	0...59	min		0 (not in applications)			
<b>Fan (Fans)</b>								
<b>FPt</b>	Sets whether parameter <b>FSt</b> is expressed as an absolute temperature value or as a value relative to the Setpoint. <ul style="list-style-type: none"> <li>• 0 = absolute</li> <li>• 1 = relative.</li> </ul>	0/1	flag		0	0	0	0
<b>FSt</b>	Fan disabling temperature; a value, read by the evaporator probe.	-67.0...320	°C/°F		8.0	8.0	8.0	8.0
<b>FAd</b>	Evaporator fan trigger differential.	0.1...25.0	°C/°F		2.0	2.0	2.0	2.0
<b>Fdt</b>	Fan activation delay time after a defrost.	0...250	min		0	0	0	0
<b>dt</b>	Dripping time.	0...250	min		0	0	0	0
<b>dFd</b>	Used to select or deselect the exclusion of the evaporator fans during defrosting. <ul style="list-style-type: none"> <li>• n(0) = no</li> <li>• y(1) = yes (fan excluded - off).</li> </ul>	n/y	flag		y	y	y	y

Parameter	Description	Range	MU	Custom	Default	AP1	AP2	AP3																																																																													
<b>FCo</b>	Evaporator fan operating mode.	0...3	num		1	1	1	1																																																																													
	<table border="1"> <thead> <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> </thead> <tbody> <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> </tbody> </table>								Pb2	H42	FCo	day		night		Cn	Cf	Cn	Cf	ok	y	0	T	Off	T	Off	1	T	T	T	T	2	T	DCd	T	DCn	3	T	DCd	T	DCn	ko	y	0	On	Off	On	Off	1	On	On	On	On	2	On	DCd	On	DCd	3	On	DCd	On	DCd	no	n	0	On	Off	On	Off	1	On	On	On	On	2	On	DCd	On	DCd	3	On	DCd	On	DCd
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<b>Headings legend:</b>																																																																																					
<b>Pb2</b> = probe Pb2 status ( <b>ok</b> = present; <b>ko</b> = in E2 error and <b>no</b> = absent; <b>day</b> = day mode; <b>night</b> = night mode; <b>Cn</b> = compressor on; <b>Cf</b> = compressor off.																																																																																					
<b>Status legend:</b>																																																																																					
<b>T</b> = thermostat controlled fans; <b>On</b> = fans on; <b>Off</b> = fans off; <b>DCd</b> = Day duty cycle or <b>DCn</b> = Night duty cycle.																																																																																					
<b>Fon</b>	Day duty cycle: time with fans on.	0...250	min		0	0	0	0																																																																													
<b>FoF</b>	Day duty cycle: time with fans off.	0...250	min		0	0	0	0																																																																													
<b>Fnn</b>	Night duty cycle: time with fans on.	0...250	min		0	0	0	0																																																																													
<b>FnF</b>	Night duty cycle: time with fans off.	0...250	min		0	0	0	0																																																																													
<b>ESF</b>	"Night" mode activation. <ul style="list-style-type: none"> <li><b>n(0)</b> = no</li> <li><b>y(1)</b> = yes.</li> </ul>	n/y	flag		n	n	n	n																																																																													
<b>AL (Alarms)</b>																																																																																					
<b>Att</b>	Sets the absolute or relative value for parameters <b>HAL</b> and <b>LAL</b> . <ul style="list-style-type: none"> <li><b>0</b> = absolute value</li> <li><b>1</b> = relative value</li> </ul>	0/1	flag		0	0	0	0																																																																													
<b>AFd</b>	Alarm differential.	0,1...25,0	°C/°F		2.0	2.0	2.0	2.0																																																																													
<b>HAL</b>	Maximum temperature alarm. Temperature value (in an absolute or relative value - see <b>Att</b> ) which, when exceeded, will lead to the activation of alarm signaling.	<b>LAL</b> ...302	°C/°F		150.0	150.0	150.0	150.0																																																																													
<b>LAL</b>	Minimum temperature alarm. Temperature value (in an absolute or relative value - see <b>Att</b> ) which, when not reached, will lead to the activation of alarm signaling.	-67,0... <b>HAL</b>	°C/°F		-50.0	-50.0	-50.0	-50.0																																																																													
<b>PAo</b>	Alarm exclusion time when switching on the controller, after a power failure.	0...10	min*10		0	0	0	0																																																																													
<b>dAo</b>	Temperature alarm exclusion time after defrosting.	0...999	min		0	0	0	0																																																																													
<b>oAo</b>	Alarm signaling delay after deactivation of the digital input (door closure). Alarm refers to high and low temperature alarms.	0...10	hours		0	0	0	0																																																																													
<b>tdo</b>	Door open alarm activation delay time.	0...250	min		0	0	0	0																																																																													
<b>tAo</b>	Temperature alarm signaling delay time.	0...250	min		0	0	0	0																																																																													
<b>dAt</b>	Defrost ended due to timeout alarm indication. <ul style="list-style-type: none"> <li><b>n(0)</b> = alarm not activated</li> <li><b>y(1)</b> = alarm activated.</li> </ul>	n/y	flag		0	0	0	0																																																																													

Parameter	Description	Range	MU	Custom	Default	AP1	AP2	AP3
<b>EAL</b>	An external alarm inhibits the regulators. <ul style="list-style-type: none"> <li>• <b>0</b> = does not inhibit the regulators</li> <li>• <b>1</b> = compressor and defrost inhibited</li> <li>• <b>2</b> = fans, compressor and defrost inhibited;</li> </ul>	0/1/2	flag		n	n	n	n
<b>AoP</b>	Alarm output polarity. <ul style="list-style-type: none"> <li>• <b>0</b> = NO (Normally open)</li> <li>• <b>1</b> = NC (Normally closed).</li> </ul>	0/1	flag		1	1	1	1
<b>SA3</b>	Probe 3 alarm setpoint.	-67.0...302	°C/°F		0.0	0.0	0.0	0.0
<b>dA3</b>	Probe 3 alarm differential.	0.1...30.0	°C/°F		1.0	1.0	1.0	1.0
<b>rFt</b>	Low refrigerant alarm signaling delay.	0...250	min		0 (non nelle applicazioni)			
<b>Lit (Lights and digital inputs)</b>								
<b>dOd</b>	Digital input shuts off utilities. <ul style="list-style-type: none"> <li>• <b>0</b> = disabled</li> <li>• <b>1</b> = disables fans</li> <li>• <b>2</b> = disables compressor</li> <li>• <b>3</b> = disables fans and compressor.</li> </ul>	0...3	num		0	0	0	0
<b>dAd</b>	Digital input activation delay	0...250	min		0	0	0	0
<b>dCo</b>	Compressor switch-off delay from door opening.	0...250	min		0	0	0	0
<b>AUP</b>	Auxiliary (AUX) output activation when the door is opened. <ul style="list-style-type: none"> <li>• <b>n(0)</b> = disabled</li> <li>• <b>y(1)</b> = AUX output activation</li> </ul>	n/y	flag		n	n	n	n
<b>PrE (Pressure switch)</b>								
<b>PEn</b>	Number of errors permitted per minimum/maximum pressure switch input	0...15	num		0	0	0	0
<b>PEi</b>	Minimum/maximum pressure switch error count interval	1...99	min		1	1	1	1
<b>PEt</b>	Compressor activation delay after pressure switch deactivation	0...255	min		0	0	0	0
<b>EnS (Energy Saving)</b>								
<b>oSP</b>	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
<b>odF</b>	Differential offset during an energy saving cycle or reduced set.	0.1...30.0	°C/°F		2.0	2.0	2.0	2.0
<b>Add (Communication)</b>								
<b>Adr</b>	Modbus protocol controller address.	1...247	num		1 (not in applications)			
<b>bAU</b>	Modbus Baudrate selection. <ul style="list-style-type: none"> <li>• <b>96</b> (0) = 9600 baud</li> <li>• <b>192</b> (1) = 19200 baud</li> <li>• <b>384</b> (2) = 38400 baud</li> </ul>	96/192/384	num		96 (not in applications)			
<b>Pty</b>	Modbus parity bit. <ul style="list-style-type: none"> <li>• <b>n(0)</b> = none</li> <li>• <b>E(1)</b> = even</li> <li>• <b>o(2)</b> = odd.</li> </ul>	n/E/o	num		E (not in applications)			
<b>diS (Display)</b>								
<b>dro</b>	Selects the unit of measure used when displaying the temperature read by the probes. ( <b>0</b> = °C, <b>1</b> = °F). <b>Note:</b> changing from °C to °F or vice-versa does NOT change the <b>SEt</b> , <b>diF</b> values, etc. (example: <b>SEt</b> = 10°C becomes 10°F).	0/1	flag		0	0	0	0
<b>CA1 (!)</b>	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
<b>CA2 (!)</b>	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
<b>CA3 (!)</b>	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
<b>CAi</b>	Activation of the calibration value. <ul style="list-style-type: none"> <li><b>0</b> = Adds the value to the temperature value displayed</li> <li><b>1</b> = Adds the value to the temperature used by the regulators and not to the one displayed</li> <li><b>2</b> = Adds the value to the temperature used by the regulators and to the temperature displayed.</li> </ul>	0/1/2	num		2	2	2	2
<b>LoC</b>	Keypad lock. <ul style="list-style-type: none"> <li><b>n(0)</b> = Keypad lock disabled</li> <li><b>y(1)</b> = Keypad lock enabled (on startup or when 30 seconds have passed since the last action carried out on the user interface)</li> </ul>	n/y	flag		y	y	y	y
<b>ddd</b>	Selects the type of value to show on the display. <ul style="list-style-type: none"> <li><b>0</b> = setpoint</li> <li><b>1</b> = Pb1 probe</li> <li><b>2</b> = Pb2 probe</li> <li><b>3</b> = Pb3 probe.</li> </ul>	0...3	num		1	1	1	1
<b>ddL</b>	Display mode during defrosting. <ul style="list-style-type: none"> <li><b>0</b> = display the temperature read by Pb1</li> <li><b>1</b> = inhibits reading on the value of Pb1 at the start of defrost and until the setpoint is reached</li> <li><b>2</b> = displays label <b>dEF</b> during defrost until the setpoint is reached.</li> </ul>	0/1/2	num		0	0	0	0
<b>Ldd</b>	Display unlock timeout value - label <b>dEF</b>	0...250	min		30	30	30	30
<b>ndt</b>	Display with decimal point. <ul style="list-style-type: none"> <li><b>n(0)</b> = no</li> <li><b>y(1)</b> = yes.</li> </ul>	n/y	flag		y	y	y	y
<b>FSE</b>	Sets the value (COEFF) used by the low-pass filter to calculate the temperature value to be displayed. <ul style="list-style-type: none"> <li><b>0</b> = disabled</li> <li><b>1</b> = 200</li> <li><b>2</b> = 100</li> <li><b>3</b> = 50</li> <li><b>4</b> = 25</li> <li><b>5</b> = 12</li> <li><b>6</b> = 6</li> <li><b>7</b> = 3.</li> </ul>	0...7	num		0	0	0	0
<b>FdS</b>	Filter disabling threshold.	-67.0...302	°C/°F		0.0	0.0	0.0	0.0
<b>Ftt</b>	Time that has passed beyond the value of <b>FdS</b> before the filter is disabled.	0...250	min		0	0	0	0
<b>FHt</b>	Filter sampling interval.	1...250	s		1	1	1	1
<b>PS1</b>	When enabled ( <b>PS1</b> ≠0) this is the access key for the user parameters.	0...250	num		0	0	0	0
<b>PS2</b>	When enabled ( <b>PS2</b> ≠0) this is the access key for the installer parameters.	0...250	num		15	15	15	15
<b>VSC (Variable-speed compressor)</b>								
<b>CEr</b>	Controlled capacity value in the event of regulation probe error.	0.0...100	%		50.0	50.0	50.0	5.0
<b>PdS</b>	Differential for forced activation of a pull-down.	-50.0...50.0	K/°R		3.0	3.0	3.0	0.3
<b>PUS</b>	Differential for forced activation of a pull-up.	-50.0...50.0	K/°R		-3.0	-3.0	-3.0	-0.3
<b>Puđ</b>	Temperature outside range timeout. The timer is activated when the regulation probe reaches a value greater than <b>SEt+PdS</b> (for Pull Down) or less than <b>SEt+PuS</b> (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
<b>PdE</b>	Pull-down end differential.	-50.0...50.0	K/°R		0.0	0.0	0.0	0.0
<b>PUE</b>	Pull-up end differential. If a pull-up is activated when the timer <b>Puđ</b> runs out, the compressor is stopped until <b>SEt+PUE</b> is reached.	-50.0...50.0	K/°R		0.0	0.0	0.0	0.0
<b>Pdt</b>	Optimized pull-down timeout.	0...1000	min		10	10	10	10

Parameter	Description	Range	MU	Custom	Default	AP1	AP2	AP3
<b>Pdd</b>	Controlled capacity value, if a pull-down is activated, when the time period <b>PUd</b> has elapsed, that will be maintained: <ul style="list-style-type: none"> <li>for a time period <b>Pdt</b> at the end of which the capacity will be forced to 100% until <b>SEt+PdE</b> is reached.</li> <li>until the temperature <b>SEt+PdE</b> is reached (if the time &lt; Pdt).</li> </ul>	0.0...100	%		60.0	60.0	60.0	6.0
<b>CPd</b>	Controlled capacity after a pull-down in day operating mode.	0.0...100	%		60.0	60.0	60.0	6.0
<b>CPn</b>	Controlled capacity after a pull-down in night operating mode.	0.0...100	%		50.0	50.0	50.0	5.0
<b>CPb</b>	PID regulator proportional band.	0.1...3200	K/°R		3.0	3.0	3.0	0.3
<b>Cti</b>	PID integral time.	0...65535	s		60	60	60	60
<b>Ctd</b>	PID derivative time.	0...65535	s		0	0	0	0
<b>CSd</b>	Duration of constant-speed compressor heating (set by <b>CSC</b> ) on startup or after a stand-by.	0...900	s		120	120	120	120
<b>CSC</b>	Fixed compressor capacity for a time period equal to <b>CSd</b> on startup or after a stand-by.	44.4...100	%		80.0	80.0	80.0	8.0
<b>CAU</b>	Selects automatic or manual PID mode. <ul style="list-style-type: none"> <li>0 = automatic</li> <li>1 = manual.</li> </ul>	0/1	flag		0	0	0	0
<b>CdU</b>	PID duty cycle in manual mode. If <b>CAU = AUt</b> , <b>CdU</b> will function as a maximum controlled capacity limiter (%). If <b>CAU = FiH</b> , <b>CdU</b> will force controlled capacity of the compressor (%).	0.0...100	%		100	100	100	10
<b>F_1</b>	Maximum compressor operating frequency.	0.0...250	Hz		150	150	150	150
<b>F_2</b>	Minimum compressor operating frequency.	0.0...250	Hz		67	67	67	67
<b>CnF (Configuration)</b>								
<b>H00</b>	Selects the probe type. <ul style="list-style-type: none"> <li>0 = PTC</li> <li>1 = NTC</li> <li>2 = Pt1000.</li> </ul>	0/1/2	flag		1	1	1	1
<b>H08</b>	Stand-by operating mode. <ul style="list-style-type: none"> <li>0 = display off; the regulators are active and the device signals possible alarms by reactivating the display</li> <li>1 = display off; the regulators and the alarms are blocked</li> <li>2 = the display shows the label "OFF"; the regulators and alarms are inhibited.</li> </ul>	0/1/2	num		2	2	2	2
<b>H11</b>	Configurazione ingresso digitale 1 ( <b>DI</b> )/ polarità. <ul style="list-style-type: none"> <li>0 = disabilitato</li> <li>±1 = sbrinamento</li> <li>±2 = set ridotto</li> <li>±3 = ausiliario</li> <li>±4 = micro-porta</li> <li>±5 = allarme esterno</li> <li>±6 = stand-by</li> <li>±7 = pressostato</li> <li>±8 = abbattimento rapido</li> <li>±9 = luce</li> <li>±10 = risparmio energetico</li> </ul> <b>Nota:</b> <ul style="list-style-type: none"> <li>segno "+" indica che l'ingresso è attivo se il contatto è chiuso.</li> <li>segno "-" indica che l'ingresso è attivo se il contatto è aperto.</li> </ul>	-10...+10	num		0	0	0	0

Parameter	Description	Range	MU	Custom	Default	AP1	AP2	AP3
H21	Configuration of digital output 1 ( <b>OC1</b> ). <ul style="list-style-type: none"> <li>0 = disabled</li> <li>1 = compressor</li> <li>2 = defrost</li> <li>3 = evaporator fans</li> <li>4 = alarm</li> <li>5 = auxiliary</li> <li>6 = stand-by</li> <li>7 = light</li> <li>8 = reserved</li> <li>9 = compressor 2</li> <li>10 = evaporator 2 defrost</li> <li>11 = condenser fans</li> <li>12 = heater deadband control</li> <li>13 = variable-speed compressor (VSC).</li> </ul>	0...13	num		13	13	13	13
H22	Configuration of digital output 2 ( <b>Out2</b> ). <ul style="list-style-type: none"> <li>0 = disabled</li> <li>1 = compressor</li> <li>2 = defrost</li> <li>3 = evaporator fans</li> <li>4 = alarm</li> <li>5 = auxiliary</li> <li>6 = stand-by</li> <li>7 = light</li> <li>8 = reserved</li> <li>9 = compressor 2</li> <li>10 = evaporator 2 defrost</li> <li>11 = condenser fans</li> <li>12 = heater deadband control.</li> </ul>	0...12	num		2	2	2	2
H24	Configuration of digital output 4 ( <b>Out4</b> ). Same as H22.	0...12	num		3	3	3	3
H31	Configuration of $\Delta$ key. <ul style="list-style-type: none"> <li>0 = disabled</li> <li>1 = defrost</li> <li>2 = auxiliary</li> <li>3 = reduced set</li> <li>4 = stand-by</li> <li>5 = Autotuning procedure <b>nPL</b></li> <li>6 = Autotuning procedure <b>tun</b></li> <li>7 = deep cooling</li> <li>8 = light.</li> </ul>	0...8	num		1	1	1	1
H32	Configuration of $\nabla$ key. Same as H31.	0...8	num		0	0	0	0
H33	Configuration of $\ominus$ key. Same as H31.	0...8	num		4	4	4	4
H34	Configuration of $\nabla$ key. Same as H31.	0...8	num		0	0	0	0
H35	Configuration of $\star$ key. Same as H31.	0...8	num		0	0	0	0
H42	Probe Pb2 present. <ul style="list-style-type: none"> <li>n(0) = not present</li> <li>y(1) = present.</li> </ul>	n/y	flag		y	y	y	y
H43	Probe Pb3 present. <ul style="list-style-type: none"> <li>n(0) = not present</li> <li>y(1) = present</li> <li>2EP(2) = second evaporator.</li> </ul>	n/y/2EP	flag		n	n	n	n
H45	Defrost input mode for applications with dual evaporator. <b>0</b> = first evaporator only; <b>1</b> = if at least one of the evaporators is below its defrost end temperature; <b>2</b> = only if both evaporators are under the respective defrost end temperature; <b>3</b> = evaporator 1 and evaporator 2 alternately.	0...3	num		0	0	0	0
H48	RTC (Real Time Clock) present. <ul style="list-style-type: none"> <li>0 = no RTC</li> <li>1 = RTC present.</li> </ul>	0/1	flag		0	0	0	0
H60	Display selected application. <b>0</b> = disabled; <b>1</b> = AP1; <b>2</b> = AP2; <b>3</b> = AP3.	0...3	num		1 (not in applications)			
tAb	Reserved: read-only parameter.	/	/		/ (not in applications)			

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