

LIST OF PARAMETERS AND DEFAULT VALUES

UNIT = **NRCD** SERIAL N. = **HF1104028636** DATE = **04/05/2010** SOFTWARE = **JREF_14_01_HRCD** PGD3 code = --
 pCO addr.= **01** PGD addr.= **25** EVD200 n.1 addr.= -- EVD200 n.2 addr.= -- pCOXS addr.= -- PGD3 addr.= --

Scr.	Par.	Description	Default	Special value	Range	UOM
		Maintenance				
A0b	1	Change language pressing ENTER key	English		English	
A5	1	Enter password	----		0-9999	
A6	1	Modify compressor circuit 1 operating hours	0		0-99 . 0-999	hours
A6	2	Modify compressor circuit 2 operating hours	0		0-99 . 0-999	hours
A7	1	Modify main fan operating hours	0		0-99 . 0-999	hours
A7	2	Humidifier opearating hours reset	No		No-Yes	
A8	1	Device operating hour threshold: mainfan	99		0-99	hours x 1000
A8	2	Device operating hour threshold: compr. Circuit 1	99		0-99	hours x 1000
A8	3	Device operating hour threshold: compr. Circuit 2	99		0-99	hours x 1000
A9	1	Humidity probe calibration	0		-9.9 – 9.9	%RH
A9	2	Condensing pressure probe 1 calibration	0		-9.9 – 9.9	bar
A9	3	Condensing pressure probe 2 calibration	0		-9.9 – 9.9	bar
Aa	1	Room temperature probe calibration	0		-9.9 – 9.9	°C / °F
Aa	2	External temperature probe calibration	0		-9.9 – 9.9	°C / °F
Aa	3	Supply temperature probe calibration	0		-9.9 – 9.9	°C / °F
Ab	1	Water inlet temperature probe calibration	0		-9.9 – 9.9	°C / °F
Ab	2	Condensing temperature probe 1 calibration	0		-9.9 – 9.9	°C / °F
Ab	3	Condensing temperature probe 2 calibration	0		-9.9 – 9.9	°C / °F
Ab2	1	Freecooling function: coil temperature probe calibration	0		-9.9 – 9.9	°C / °F
Ac	1	Manual activation of digital outputs 1 – 2 – 3	Off		Off – On	
Ad	1	Manual activation of digital outputs 4 – 5 – 6	Off		Off – On	
Ae	1	Manual activation of digital outputs 7 – 8 – 9	Off		Off – On	
Af	1	Manual activation of digital outputs 10 – 11 – 13	Off		Off – On	
Ag	1	Manual activation of modulating outputs 1 – 2	0		0-10.0	Volt
Ah	1	Manual activation of modulating outputs 3 – 4	0		0-100	%
Ai	1	Manual activation of pre wash built-in humidifier	No		No-Yes	
Ai	2	Manual activation of total water drain built-in humidifier.	No		No-Yes	
Ai1	1	Hum.management: periodic drain enable	No		No-Yes	
Ai1	2	Hum.management: periodic drain period	120		0-120	hours
Ai2	1	Hum.management: stop delay	0		0-120	seconds
Ai2	2	Hum.management: drain for inactivity period	3		1-199	hours
Ai3	1	Hum.management: threshold running hours	4000		1000-8000	hours
Ai4	1	Hum.management: manual conductivity enable	No		No-Yes	
Ai4	2	Hum.management: manual conductivity value	0		0-2000	uS/cm2
Aj	1	Driver 1 valve control mode	Automatic		Auto-Man.	
Aj	2	Driver 1 valve manual opening steps	0		0-9999	Steps
Ak	1	Driver 2 valve control mode	Automatic		Auto-Man.	
Ak	2	Driver 2 valve manual opening steps	0		0-9999	Steps
Al	1	Driver 1 manual release on start-up	No		No-Yes	
Am	1	Driver 2 manual release on start-up	No		No-Yes	
An	1	Enter new Maintenance password	----		0-9999	
		Clock				
K0	1	Hour setting	current hour		0-23	hours
K0	2	Minute setting	current minutes		0-59	minutes
K0	3	Day setting	current day		1-31	
K0	4	Month setting	current month		1-12	
K0	5	Year setting	current year		0-99	
K1	1	Enter Clock password	----		0-9999	
K2	1	Enable temperature / humidity / On-Off time bands	No / No / No		No-Yes	
K3	1	Start and end hour for On-Off time bands F1-1and F1-2	9 / 13 / 14 / 21		0-23	hours
K3	2	Start and end min. for On-Off time bands F1-1 and F1-2	0 / 0 / 0 / 0		0-59	minutes
K4	1	Start and end hour for On-Off time band F2	14 / 21		0-23	hours
K4	2	Start and end minutes for On-Off time band F2	0 / 0		0-59	minutes
K5	1	Select On-Off time bands (F1,F2,F3,F4) for each day	F3		F1-F2-F3-F4	
K6	1	Start hour temperature bands 1 and 2	0 / 6		0-23	hours
K6	2	Start minutes temperature bands 1 and 2	0 / 0		0-59	minutes
K6	3	Set point temperature bands 1 and 2	23.0 / 23.0		see P1	°C / °F
K7	1	Start hour temperature bands 3 and 4	12 / 18		0-23	hours
K7	2	Start minutes temperature bands 3 and 4	0 / 0		0-59	minutes
K7	3	Set point temperature bands 3 and 4	23.0 / 23.0		see P1	°C / °F
K8	1	Start hour humidity bands 1 and 2	0 / 6		0-23	hours
K8	2	Start minutes humidity bands 1 and 2	0 / 0		0-59	minutes
K8	3	Set point humidity bands 1 and 2	50.0 / 50.0		see P2	%RH
K9	1	Start hour humidity bands 3 and 4	12 / 18		0-23	hours
K9	2	Start minutes humidity bands 3 and 4	0 / 0		0-59	minutes

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Scr.	Par.	Description	Default	Special value	Range	UOM
K9	3	Set point humidity bands 3 and 4	50.0 / 50.0		see P2	%RH
Ka	1	Enter new Clock password	----			
Setpoint Menu						
S1	1	Temperature set point	23.0		see P1	°C / °F
S1	2	Humidity set point	50.0		see P2	%RH
S2	1	Emergency temperature set point for dual cooling	28.0		see P1	°C / °F
S3	1	Air flow setpoint (AFC = air flow control)	15000	2700	0-40000	m³/h
S4	1	Delta P setpoint (AFC = air flow control)	30.0		0-50.0	Pa
User Menu						
P0	1	Enter user password	----		0-9999	
P1	1	Enable temperature set point limits	Yes		No-Yes	
P1	2	Minimum and maximum temperature set point limits	20.0 / 30.0		-999.9-999.9	°C / °F
P2	1	Enable humidity set point limits	Yes		No-Yes	
P2	2	Minimum and maximum humidity set point limits	40.0 / 60.0		0.0-100.0	%RH
P3	1	Differential in Cooling and Heating	3.0 / 3.0	10.0 / 3.0	0.0-100.0	°C / °F
P3	2	Temperature dead zone	0.5		0.0-99.9	°C / °F
P4	1	Differential in Humidification and Dehumidification	4.0 / 4.0		0.0-99.9	%RH
P4	2	Dehumidification / Humidification dead zone	2.0		0.0-99.9	%RH
P5	1	Show language screen at start-up	No		No-Yes	
P5	2	Switch unit off from button	Yes		No-Yes	
P5	3	Enable remote On-Off digital input	Yes		No-Yes	
P6	1	Freecooling set point (delta T)	3.0		0-99.9	°C / °F
P6	2	Freecooling differential	2.0		0-99.9	°C / °F
P7	1	Enable compensation function	No		No-Yes	
P7	2	Outside air compensation set point	25.0		-999.9-999.9	°C / °F
P7	3	Outside air compensation differential	3.0		-999.9-999.9	°C / °F
P7	4	Offset maximum of compensation of the set of temperature	2.0		-999.9-999.9	°C / °F
P8	1	High and low room temperature alarms offset respect the setpoint	10.0 / 10.0		-999.9-999.9	°C / °F
P9	1	High and low room humidity alarms offset respect the setpoint	20.0 / 30.0		0-100.0	%RH
Pa	1	Enable supply limit function	No		No-Yes	
Pa	2	Supply air set point for the limitation function	12.0		-999.9-999.9	°C / °F
Pa	3	Supply air differential for the limitation function	5.0		-999.9-999.9	°C / °F
Pa2	1	High water temperature alarm: enable	No		No-Yes	
Pa2	2	High water temperature alarm: offset	0		-999.9-999.9	°C / °F
Pb	1	Assign type of alarm Serious/Not serious AL01-AL20	SSSSS SNNSN NNNNN NNNNN		N-S	
Pc	1	Assign type of alarm Serious/Not serious AL21-AL40	NNNNN NNNNN SSSNS NSNS		N-S	
Pd	1	Assign type of alarm Serious/Not serious AL41-AL60	NNNNN NNNNN NNNNN NNNNN		N-S	
Pe	1	Assign type of alarm Serious/Not serious AL61-AL80	NNNNN NNNNN NNSNN NNNNN		N-S	
Pe2	1	Alarm digital outputs logic type	N.O.		N.O.-N.C	
Pf	1	Board identification number for supervisory network	1		0-200	
Pf	2	Board communication speed for supervisory network	19200		1200-19200	Bps
Pf	3	Serial communication protocol	Carel		Carel, Modbus, Lon, RS232, Gsm	
Pg	1	Number of rings for GSM modem	0		0-9	
Pg	2	Enter mobile number with GSM modem	0		0...9,#,*,@,^	
Pg	3	GSM modem password	0		0-9999	
Pg	1	Max. telephone numbers with analogue modem	0		0-9	
Pg	2	Telephone book number with analogue modem	0		0-Pg 1	
Pg	3	Enter telephone number with analogue modem	-		0...9,#,*,@,^	
Pg	4	Modem password	0		0-9999	
Ph	1	Number of rings for analogue modem	0		0-9	
Ph	2	Type of analogue modem	Tone		Tone-Pulse	
Pi	1	Enter new user password	----		0-9999	
Manufacturer -> Configuration						
C0	1	Enable BMS	No		No-Yes	
C0	2	Enable printer	No		No-Yes	

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Scr.	Par.	Description	Default	Special value	Range	UOM
C0	3	Select unit of measure for temperature probes and parameters	°C		°C-°F	
C0	4	Enable clock board	No		No-Yes	
C1	1	Type of unit	DX		DX-CW-DUAL	
C1	2	Select refrigerant	R407C	R410A	R22, R134a, R404a, R407C, R410A	
C1b	1	Normal mode selection	KEYBOARD		KEYBOARD - DIG.INPUT	
C1b	2	Dual cooling: normal mode	DX		DX-CW	
C1b	3	Dual cooling: emergency mode	CW		DX-CW	
C2	1	Number of compressors	1		1-2-4	
C2	2	Enable compressor capacity-control steps	No		No-Yes	
C2	3	Heating mode	Heaters		Heaters-Battery	
C2	4	Number of heaters	0		0-1-2-Binary	
C2	5	Type of valve for heating battery	0-10V		0-10V / 3 points	
C3	1	Battery 1 type	Cool		C/H-Cool	
C3	2	Type of valve for the battery 1	0-10V		0-10V / 3 points	
C3	3	Heating mode	Heaters		Heaters-Battery 2	
C3	4	Number of heaters	0		0-1-2-Binary	
C3	5	Type of valve for battery 2	0-10V		0-10V / 3 points	
C5	1	Digital input 3 configuration	Al.water flood		Al.fire/smoke, Al.water flood, Al.fire/smoke + water flood	
C5	2	Switch off unit with Fire/smoke - Water flood alarm (DX unit)	No		No-Yes	
C6	1	Switch off unit with Water flood alarm (CW unit)	No		No-Yes	
C6	2	Switch off unit with Fire/smoke alarm (CW unit)	Yes		No-Yes	
C7	1	Digital output 13 configuration	Light alarm relay		Freecooling dry cooler, Light alarm relay	
C8	1	Analog input 2 configuration	Pressure circ. 1		Pressure Circ. 1, Temp. Circ.1, Supply air temp.	
C9	1	Analog input 3 configuration	Pressure circ. 2		Pressure Circ. 1, Temp. Circ.1, Water In temp.	
Ca	1	External humidifier: enable	No		No-Yes	
Ca	2	External humidifier: type	0-10V		0-10V, On/Off	
Cb2	1	Analog output 2 configuration	INVERTER		Warm water coil, Freecooling, Hot gas valve, Inverter, Dual cooling valve, External humidifier	
Cc	1	Freecooling damper-valve enable	No		No-Yes	
Cc	2	Main analog fan present	Yes		No-Yes	
Cd	1	Enable condensation function	No		No-Yes	
Cd	2	Type of condenser	Single		Single-Separat.	
Cd	3	Condensing output type	Inverter		Inverter-Steps	
Cd	4	Select number of condensing fans	1		1-2	
Ce	1	Maximum voltage threshold for Triac	92,0		0-100,0	%
Ce	2	Minimum voltage threshold for Triac	7,0		0-100,0	%
Ce	3	Duration of Triac impulse	2,0		0-10,0	mseconds
Cf	1	Logic of the dehumidification contact	NO		NO-NC	
Cf	2	Number of compressors enabled for dehumidification	0		0-2	
Cf	3	Enable cooling coil for dehumidification	No		No-Yes	
Cf	4	Enable built-in humidifier	No		No-Yes	
Cg	1	Type of humidifier	3 Kg/h 400V 3Ph		3 Kg/h / 8 Kg/h / 15 Kg/h	
Cg	2	Drain pump presence	No		No-Yes	
Cg	3	Maximum production	70.0		0-100.0	
Cg	4	Humidifier board type	PCOUMID200		PCOUMID200-PCOUMID000	
Ch	1	Enable humidity probe	No		No-Yes	
Ch	2	Type of signal from the humidity probe	Current		0-1V, 0-10V, Current	
Ch	3	Minimum and maximum value measured by the humidity probe	10.0 / 90.0		0-100.0	%RH
Ci	1	Enable pressure probe 1	No	Yes	No-Yes	
Ci	2	Type of signal pressure probe 1	Current		0-1V, 0-10V, Current	
Ci	3	Minimum and maximum value pressure probe 1	0.0 / 30.0	0.0/45.0	-20.0 - 50.0	bar
Cj	1	Enable pressure probe 2	No		No-Yes	

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Scr.	Par.	Description	Default	Special value	Range	UOM
Cj	2	Type of signal pressure probe 2	Current		0-1V, 0-10V, Current	
Cj	3	Minimum and maximum value pressure probe 2	0.0 / 30.0		-20.0 - 50.0	bar
Ck	1	Room temperature probe type	NTC		NTC-PT1000	
Ck	2	Enable supply air temperature probe	Yes		No-Yes	
Ck	3	Type of signal from supply air temperature probe	NTC		NTC-PT1000	
Cl	1	Selection of usage of temperature probe on input B8	External air		External air / Water outlet	
Cl	2	Enable temperature probe input B8 (External air / water outlet temperature probe)	No		No-Yes	
Cl	3	Type of signal from external temperature probe	NTC		NTC-PT1000	
Cl	4	Enable water inlet temperature probe	No		No-Yes	
Cl	5	Type of signal from water inlet temperature probe	NTC		NTC-PT1000	
Cm	1	Enable condenser 1 temperature probe	No		No-Yes	
Cm	2	Type of signal from condenser 1 temperature probe	NTC		NTC-PT1000	
Cm	3	Enable condenser 2 temperature probe	No		No-Yes	
Cm	4	Type of signal from condenser 2 temperature probe	NTC		NTC-PT1000	
Cn	1	LAN unit configuration Unit 1 (U1)	Present/No rotat.		Present/Rotation, Present/No rotat., Not present	
Cn	2	LAN unit configuration Unit 2 - 3 (U2 - U3)	Not present Not present		Present/Rotation, Present/No rotat., Not present	
Co	1	LAN unit configuration Unit 4 - 5 - 6 (U4 - U5 - U6)	Not present Not present Not present		Present/Rotation, Present/No rotat., Not present	
Cp	1	LAN unit configuration Unit 7 - 8 (U7 - U8)	Not present Not present		Present/Rotation, Present/No rotat., Not present	
Cr	1	Enable expansion card	No		No-Yes	
Cr	2	Enable expansion card alarm	Yes		No-Yes	
Cr	3	Expansion card alarm delay	120		0-999	seconds
Cr2	1	Analog output Y1 of pCOE configuration (for DX units)	Freecooling		Warm water coil, Freecooling, Hot gas valve, Inverter, Dual cooling valve, External humidifier	
Cr2	1	Analog output Y1 of pCOE configuration (for CW units)	Freecooling		Freecooling, External humidifier	
Cs	1	Hot gas type	Freecooling		Not present, Hot gas On/Off, Hot gas modul., Hot gas bypass	
Cs	2	Hot gas modulating valve type	ALCO EX5-EX6		0-11	
Ct	1	Freecooling system enable	No		No-Yes	
Ct	2	Freecooling type	Air		Air - Water	
Ct	3	Water coil temperature probe presence	No		No-Yes	
Cu	1	Enable precise function	No		No-Yes	
Cu	2	Enable electrical heater forcing	No		No-Yes	
Cv	1	Differential pressure probe enable	No		No-Yes	
Cv	2	Differential pressure probe config. min. input	3200		0-32767	
Cv	3	Differential pressure probe config. max. input	16000		0-32767	
Cv	4	Differential pressure probe config. min. output	0		0-32767	
Cv	5	Differential pressure probe config. max. output	10000		0-32767	
Cw	1	Differential pressure probe type	Air Flow		Air Flow - Delta P	
Cw	2	Main fan number	2		No-Yes	
Cw	3	Main fan type	R3G560		R3G450 - R3G500 - R3G560 - R3G630	
Cw2	1	Enable automatic air flow control	No		No-Yes	
Cx	1	Enable inverter presence	No	Yes	No-Yes	
Cx	2	Frequency inverter input type	0-5V		0-5V - 4-20mA	
Cy	1	Long distance between unit and condenser enable	No		No-Yes	
		Manufacturer -> Parameters				
G0	1	Enable compressors/cooling battery together with freecooling damper-valve	No		No-Yes	
G1	1	Enable FIFO compressor rotation	Yes		No-Yes	
G1	2	Temperature regulation type	Prop.	P+I	Prop. - P+I	

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Scr.	Par.	Description	Default	Special value	Range	UOM
G1	3	Temperature regulation probe (only with CW unit and 0-10V valve)	Inlet		Inlet - Outlet	
G2	1	Starting point to open modulating valve in cooling (or single valve) with freecooling (see G0)	50.0		0.0-100.0	%
G2	2	Starting and end point to open modulating valve in cooling (or single valve)	0.0 / 100.0		0.0-100.0	%
G3	1	Starting point to open 3 position valve in cooling (or single valve) with freecooling (see G0)	50.0		0.0-100.0	%
G3	2	Starting and end point to open 3 position valve in cooling (or single valve)	0.0 / 100.0		0.0-100.0	%
G4	1	Starting and end point to open modulating valve in heating	0.0 / 100.0		0.0-100.0	%
G5	1	Starting and end point to open 3 position valve in heating	0.0 / 100.0		0.0-100.0	%
G6	1	Starting and end point to open modulating damper-valve in freecooling	0.0 / 50.0		0.0-100.0	%
G7	1	Minimum and maximum main fan speed	6.0 / 6.0	3.0 / 9.0	0.0-10.0	Volt
G7	2	Main fan speed during dehumidification / alarm with AFC	6.0	4.5	0.0-10.0	Volt
G8	1	Starting and end point to open modulating humid. output	0.0 / 10.0		0.0-10.0	Volt
G9	1	Temperature differential to stop dehumidification	2.0		0-99.9	°C / °F
G9	2	Temperature offset to restart dehumidification	1.5		0-99.9	°C / °F
Ga	1	Enable water drain for set point reduction	Yes		No-Yes	
Ga	2	Enable drain for extended humidifier standby	Yes		No-Yes	
Ga	3	Enable humidifier alarm messages	Yes		No-Yes	
Ga2	1	Enable humidifier lack of water alarm	Yes		No-Yes	
Gb	1	High conductivity pre-alarm threshold	1500		0-2000	uS/cm
Gb	2	High conductivity alarm delay	2000		0-2000	uS/cm
Gc	1	Drain time as % of the manufacturer value	100		50-200	%
Gc	2	Drain frequency % of the manufacturer value	100		50-200	%
Gd	1	High pressure alarm set point	26.5	41.0	-99.9 - 99.9	bar
Gd	2	High pressure alarm differential	1.0		-99.9 - 99.9	bar
Ge	1	Condensing (pressure) set point	15.0	22.0	-99.9 - 99.9	bar
Ge	2	Condensing (pressure) differential	5.0		-99.9 - 99.9	bar
Ge	3	Modulating condensing fan speed-up time	2		0-999	seconds
Gf	1	Condensing (temperature) set point	55.0		-99.9 - 99.9	°C / °F
Gf	2	Condensing (temperature) differential	1.0		-99.9 - 99.9	°C / °F
Gf	3	Modulating condensing fan speed-up time	10		0-999	seconds
Gg	1	Maximum mod. cond. fan speed	10.0		0-10,0	Volt
Gg	2	Minimum mod. cond. fan speed	2.0		0-10,0	Volt
Gh	1	Enable high pressure alarm Prevent function	Yes		No-Yes	
Gh	2	Prevent function set point (pressure)	20.0	35.0	-99.9 - 99.9	bar
Gh	3	Prevent function differential (pressure)	2.0		-99.9 - 99.9	bar
Gi	1	Enable high pressure alarm Prevent function	Yes		No-Yes	
Gi	2	Prevent function set point (temperature)	70.0		-99.9 - 99.9	°C / °F
Gi	3	Prevent function differential (temperature)	1.0		-99.9 - 99.9	°C / °F
Gj	1	Enable Master Control function to avoid contemporaneous working in different units	No		No-Yes	
Gk	1	Rotation mode for units in pLAN network	Automatic		Automatic, Timezones, Running hours	
Gk	2	Number of units set in Standby mode	0		0-Number of unit in Present/Rotat. mode	
Gk	3	Stand-by units step in Standby mode	1		1-2	
Gk	4	Automatic rotation period for units in pLAN	24		1-240	Hours
Gl	1	Timezones rotation hour for units in pLAN network	22		0-23	Hours
Gl	2	Timezones rotation minutes for units in pLAN network	0		0-59	minutes
Gl	3	Interval in days for timezones rotation in pLAN network	3		1-7	days
Gm	1	Enable Force units by temperature in pLAN network	No		No-Yes	
Gm	2	Forcing delay for low and high ambient temperature	3 / 3		0-999	minutes
Gn	1	Low ambient temp. diff. for forcing units in network	8		0-99.9	°C / °F
Gn	2	Low ambient temp. offset for forcing units in network	4		0-99.9	°C / °F
Go	1	High room temp. diff. for forcing units in network	8		0-99.9	°C / °F
Go	2	High room temp. offset for forcing units in network	4		0-99.9	°C / °F
Gp	1	Analog supply fan speed setting	80		0-100	%
Gq	1	Freecooling dry-cooler ext. temperature control enable	Yes		No-Yes	
Gq	2	Freecooling external temperature differential	10.0		0-99.9	°C
Gq	3	Centralized dry-cooler management	No		No-Yes	
Gr	1	Freecooling dry-cooler ext. condensing control setpoint	30.0		0-99.9	°C

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Scr.	Par.	Description	Default	Special value	Range	UOM
Gr	2	Freecooling dry-cooler ext. condensing control different.	10.0		0-99.9	°C
Gs	1	Freecooling dry-cooler maximum speed	100.0		0-999.9	%
Gs	2	Freecooling dry-cooler maximum speed	0.0		0-999.9	%
Gs	3	Water low limit	7.0		0-99.9	°C
Gt	1	Coil antifreeze alarm enable	Yes		No-Yes	
Gu	1	Coil antifreeze alarm setpoint	-02.0		-99.9+99.9	°C
Gu	2	Coil antifreeze alarm differential	10.0		0-99.9	°C
Gu	3	Coil antifreeze alarm delay	120		0-999	seconds
Gv	1	Precise function offset	1.5		-99.9+99.9	°C
Gv	2	Electrical heater forcing: setpoint (respect the hot gas valve opening)	100		0-100	%
Gv	3	Electrical heater forcing: differential (respect the hot gas valve opening)	50		0-100	%
Gv2	1	Hot gas valve: mininum value	0		0-100.0	%
Gv2	2	Hot gas valve: maximum value	90.0		0-100.0	%
Gw	1	Fan speen control PID: proportional	2000		0-32767	
Gw	2	Fan speen control PID: integral time	60		0-32767	seconds
Gw	3	Fan speen control PID: derivative time	0		0-200	seconds
Gx	1	Fan speen control PID: input selection	FILTERED		MEDIUM-FILTERED	
Gx	2	Fan speen control PID: dead zone	0		0-1000	
Gx	3	Fan speen control PID: period	1000		0-10000	mseconds
Gy	1	PID filter enable	No		No-Yes	
Gy	2	PID filter maximum step Q1	10		1-100	
Gy	3	PID filter minimum step Q1	1		1-100	
Gy	4	Fan out filter enable	Yes		No-Yes	
Gy	5	Fan out maximum step Q1	10		1-100	
Gy	6	Fan out minimum step Q1	1		1-100	
Gz	1	Probe filter enable	Yes		No-Yes	
Gz	2	Probe filter maximum step Q1	100		1-100	
Gz	3	Probe filter minimum step Q1	1		1-100	
Gz	4	Input average of probe	5		1-9	
Gz	5	Set for change between Q1 and Q2	50		0-20000	
Gz	6	Differential for change between Q1 and Q2	20		0-20000	
H1	1	Minimum frequency from inverter	30.0		0-999.9	Hz
H1	2	Maximum frequency from inverter	110.0		0-999.9	Hz
H1	3	Maximum frequency to inverter	90.0	100.0	0-999.9	%
H2	1	Inverter config.: startup frequency	45.0		0-999.9	Hz
H2	2	Inverter config.: startup period	60		0-999	seconds
H3	1	Enable automatic compressor oil drain fuction (with inverter or long distance kit)	Yes		No-Yes	
H3	2	Automatic compressor oil drain fuction: activation period (with inverter or long distance kit)	5	10	0-9999	minutes
H3	3	Automatic compressor oil drain fuction: drain period (with inverter or long distance kit)	10		0-999	seconds
H4	1	Inverter alarm enable	Yes		No-Yes	
H4	2	Inverter alarm logic type	N.O	N.C.	N.C.-N.O	
H5	1	Inverter compressor operating limit: enable	No	Yes	No-Yes	
H6	1	Inverter compressor operating limit: HP->Max Hz (point 1)	28.0->110.0		-99.9 - 99.9 -> 0-999.9	bar -> Hz
H6	2	Inverter compressor operating limit: HP->Max Hz (point 2)	30.0->105.0		-99.9 - 99.9 -> 0-999.9	bar -> Hz
H7	1	Inverter compressor operating limit: HP->Max Hz (point 3)	36.0->95.0		-99.9 - 99.9 -> 0-999.9	bar -> Hz
H7	2	Inverter compressor operating limit: HP->Max Hz (point 4)	42.0->85.0		-99.9 - 99.9 -> 0-999.9	bar -> Hz
H8	1	Phase sequence alarm / power failure: enable	No		MAN-AUT	
H8	2	Phase sequence alarm / power failure: reset type	MAN		MAN-AUT	
H8	3	Phase sequence alarm / power failure: switch off the unit	Yes		No-Yes	
H9	1	Phase sequence alarm / power failure: switch off compressors/valve	Yes		No-Yes	
H9	2	Phase sequence alarm / power failure: switch off humidifier	Yes		No-Yes	
H9	3	Phase sequence alarm / power failure: switch off electrical heaters	Yes		No-Yes	

LIST OF PARAMETERS AND DEFAULT VALUES

UNIT = **NRCD** SERIAL N. = **HF1104028636** DATE = **04/05/2010** SOFTWARE = **JREF_14_01_HRCD** PGD3 code = --
 pCO addr.= **01** PGD addr.= **25** EVD200 n.1 addr.= -- EVD200 n.2 addr.= -- pCOXS addr.= -- PGD3 addr.= --

Scr.	Par.	Description	Default	Special value	Range	UOM
		Manufacturer -> Carel EXV driver				
F0	1	Number of drivers connected	0	1	0-2	
F0	2	Enable backup battery driver 1	No		No-Yes	
F0	3	Enable backup battery driver 1	No		No-Yes	
F1	1	Type of valve circuit 1	Carel E2V-E3V-E4V		0-11	
F1	2	Superheating set point circuit 1	6.0		2.0-50.0	°C
F1	3	Dead zone circuit 1	0		0-9.9	°C
F2	1	Type valve circuit 2	Carel E2V-E3V-E4V		0-11	
F2	2	Superheating set point circuit 2	6.0		2.0-50.0	°C
F2	3	Dead zone circuit 2	0		0-9.9	°C
F3	1	PID control – proportional gain circuit 1	10.0		0.0-99.9	
F3	2	PID control – integration time circuit 1	100		0-999	seconds
F3	3	PID control – derivative time circuit 1	2.0		0.0-99.9	seconds
F4	1	PID control – proportional gain circuit 2	10.0		0.0-99.9	
F4	2	PID control – integration time circuit 2	100		0-999	seconds
F4	3	PID control – derivative time circuit 2	2.0		0.0-99.9	seconds
F5	1	Threshold for low superheat protection circuit 1	2.0		-4.0 - 10.0	°C
F5	2	Prot. threshold integration time, low superheat circuit 1	10.0		0-25.5	seconds
F6	1	Threshold for low superheat protection circuit 2	2.0		-4.0 - 10.0	°C
F6	2	Prot. threshold integration time, low superheat circuit 2	10.0		0-25.5	seconds
F7	1	Percentage ratio between cooling capacity and Driver capacity C1	70		0-100	%
F7	2	Percentage ratio between cooling capacity and Driver capacity C2	70		0-100	%
F8	1	LOP threshold	-8.0		-70.0 - 50.0	°C
F8	2	LOP threshold integration time	10.0		0-25.5	seconds
F9	1	MOP start delay	30		0-500	seconds
F9	2	MOP threshold	14.0		-50.0 - 99.9	°C
F9	3	MOP threshold integration time	20.0		0-25.5	seconds
Fa	1	High condensing temp. protection threshold	63.0		0-99.9	°C
Fa	2	Integration time for high condensing temp. threshold	0.0		0-25.5	seconds
Fb	1	High suction temperature threshold	30.0		0-100.0	°C
Fc	1	Custom Valve: minimum steps	0		0-8100	
Fc	2	Custom Valve: maximum steps	1600		0-8100	
Fd	1	Custom Valve: closing steps	3600		0-8100	
Fd	2	Custom Valve: return steps	0		0-8100	
Fe	1	Custom Valve: enable extra step in opening	No		No-Yes	
Fe	2	Custom Valve: enable extra step in closing	No		No-Yes	
Ff	1	Custom Valve: operating current	250		0-1000	mA
Ff	2	Custom Valve: holding current	100		0-1000	mA
Fg	1	Custom Valve: frequency	100		32-330	Hertz
Fg	2	Custom Valve: duty cycle	50		0-100	%
Fh	1	Minimum evaporation pressure probe value	0.0		-9.9 - 10.0	Bar
Fh	2	Maximum evaporation pressure probe value	30.0		3.5 - 200.0	Bar
Fi	1	Low superheating alarm delay	0		0-3600	seconds
Fi	2	High suction temperature alarm delay	0		0-3600	seconds
Fj	1	LOP alarm delay	0		0-3600	seconds
Fj	2	MOP alarm delay	0		0-3600	seconds
		Manufacturer -> Timing				
T0	1	Supply fan start and stop delay	10 / 20		0-999	seconds
T0b	1	Delay time among fan digital and analog output	0		0-999	seconds
T1	1	Integration time for P+l temperature control	600	60	0-999	seconds
T1	2	Travel time for 3 position valve	180		0-999	seconds
T2	1	Low pressure alarm delay: at startup	180	1	0-999	seconds
T2	2	Low pressure alarm delay: running	60	1	0-999	seconds
T2	3	High-low temperature-humidity alarm delays	600		0-9999	seconds
T3	1	Serious alarm activation delay	0		0-9999	seconds
T3	2	Not serious alarm activation delay	0		0-9999	seconds
T4	1	Air flow switch alarm delay	20		0-9999	seconds
T4	2	Water flow switch alarm delay	10		0-9999	seconds
T5	1	Minimum compressor off time	180		0-9999	seconds
T5	2	Minimum compressor on time	60		0-9999	seconds
T6	1	Delay between compressor starts	360		0-9999	seconds
T6	2	Minimum delay between starts of different compressors	10		0-999	seconds

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 pCO addr.= **01** PGD addr.= **25** EVD200 n.1 addr.= -- EVD200 n.2 addr.= -- pCOXS addr.= -- PGD3 addr.= --

Scr.	Par.	Description	Default	Special value	Range	UOM
T7	1	Cap. control activation delay	10		0-9999	seconds
T7a	1	Start delay between comps. of same circuit	30		0-999	seconds
T7b		Stop delay between comps. of same circuit	30		0-999	seconds
T8	1	Heater start among electrical heaters	3		0-9999	seconds
T9	1	Start delay between fan and other devices	0	20	0-999	seconds
Ta	1	High water temperature alarm delay (dual cooling)	1800		0-9999	seconds
Tb	1	Start Inverter alarm delay	20		0-999	seconds
Tb	2	Running Inverter alarm delay	20		0-999	seconds
Tc	1	Liquid solenoid valve with long distance kit	5		0-9999	seconds
Td	1	Phase sequence alarm / power failure: delay	0		0-600	seconds
		Manufacturer -> Initialization				
V0	1	Enter password to install the default values	----		0-9999	
V1	1	Set to Yes to erase the alarm history	No		No-Yes	
V2	1	Enter new manufacturer password	----		0-9999	