

Nombre instalacion: Proyecto de INNOVACION Bomba de calor ecológica aire-auga con R-290

R1 compresor;R2 vent.ext;R3 valv.4vias;R4 bombatodo-nada;R5 alarma;Sanaloxica bomba auga

P1 sonda entrada de auga; P2 sonda saída de auga; P3 sonda bateria de aire exterior

Parámetros controlador DIXELL IC111CX

Parámetros controlador DIXELL IC111CX					R-290	R-290
Nivel	Nombre	Parametro	Rango	Por defecto	Enfr-1 IC-1	Enfr-2 IC-2
PARAMETROS DE REGULACION						
ST	ST01	Punto de axuste en modo frio °C		10.0	6	6
ST	ST02	Diferencial en modo frio °C		2.2	2	2
ST	ST03	Punto de axuste en modo calor °C		40.0	45	45
ST	ST04	Diferencial en modo calor °C		2.0	2	2
ST	ST05	Minimo punto de axuste en modo frio °C		5.0	2	2
ST	ST06	Maximo punto de axuste en modo frio °C		30.0	12	12
ST	ST07	Minimo punto de axuste en modo calor °C		10.0	25	25
ST	ST08	Maximo punto de axuste en modo calor °C		60.0	50	50
ST	ST09	Banda de regulación °C		5.0	5	5
PARAMETROS PARA UNIDADES CON TANQUE DE AGUA						
ST	ST10	Chiller unit function without build-up	0(función desactivada)	0	0	0
ST	ST11	Outgoing water minimum temperature set point for units without build-up °C		5.0		
ST	ST12	Outgoing water maximum temperature set point for units without build-up °C		55.0		
ST	ST13	Set point delta in chiller/heat pump pump working mode °C		0.5		
ST	ST14	Differential delta in chiller/heat pump working mode °C		0.5		
ST	ST15	Compressor on time after which set point and differential deltas are decreased in chiller/heat pump working mode		18		
ST	ST16	Constant used to calculate set point and differential values in chiller/heat pump working mode		0.1		
ST	ST17	Minimum interval between set point variations in units without build-up (sec x 10)		1		
PARAMETROS PARA UNIDADES GEOTERMICAS						
ST	ST18	Chiller mode environment set point °C		20.0		
ST	ST19	Chiller mode environment differential °C		3.0		
ST	ST20	Chiller mode minimum environment set point °C		17.0		
ST	ST21	Chiller mode maximum environment set point °C		28.0		
ST	ST22	Heat pump mode environment set point °C		21.0		
ST	ST23	Heat pump mode environment differential °C		2.0		
ST	ST24	Heat pump mode minimum environment set point °C		15.0		
ST	ST25	Heat pump mode maximum environment set point °C		26.0		
	Pr2	Clave de acceso(ATENCION aparato en stanby)	0 a 999	0		
PARAMETROS DE CONFIGURACION						
CF	CF01	Unit model	1 unidade aire-auga	1	1	1
CF	CF02	Motocondensing unit		0	0	0
CF	CF03	Regulation probe		0	0	0
CF	CF04	PB1 configuration		1	1	1
CF	CF05	PB2 configuration		1	1	1
CF	CF06	PB3 configuration		1	1	1
CF	CF07	PB4 configuration	NON USAMOS	3	0	0
CF	CF08	DI1 configuration	alarma xeral	0	13	13
CF	CF09	DI2 configuration		12	12	12
CF	CF10	DI5 configuration		2	0	0
CF	CF11	PB4 config. in digital input mode		15	15	15
CF	CF12	DI1 input polarity		1	0	0
CF	CF13	DI2 input polarity		1	0	0
CF	CF14	DI3 input polarity		1	1	1
CF	CF15	DI4 input polarity		1	1	1
CF	CF16	DI5 input polarity		1	0	0

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CF	CF17	PB1 input polarity		1		
CF	CF18	PB2 input polarity		1		
CF	CF19	PB4 input polarity		1		
CF	CF20	RL4 configuration	bomba auga	4	9	9
CF	CF21	RL5 configuration	alarma	8	0	0
CF	CF22	4ma correspondence pressure value(bar)		0.0		
CF	CF23	20ma correspondence pressure value (bar)		30.0		
CF	CF24	PB1 offset °C		0.0		
CF	CF25	PB2 offset °C		0.0		
CF	CF26	PB3 offset °C		0.0		
CF	CF27	PB4 offset °C		0.0		
CF	CF28	Chiller/heat pump mode selection		0	0	0
CF	CF29	Automatic changeover set point °C		18.0	18.0	18.0
CF	CF30	Differential for functioning mode selection °C		4.0	4.0	4.0
CF	CF31	Chiller/heat pump working logic		0	0	0
CF	CF32	Celsius or fahrenheit selection		(0) °C/bar	(0) °C/bar	(0) °C/bar
CF	CF33	Triac output working mode selection		0	0	0
	CF34	Direccion porto serie	DE O A 256	1	2	4
CF	CF35	Remote terminal		0	0	0
CF	CF36	Upper main display default visualization		0	0	0
	CF38		NON CAMBIAR	14		
CF	CF39	RL2 configuration		5	3	3
CF	CF40	RL3 configuration		9	4	4
CF	CF41	Saída especial para relé 12V continua	Para non conflito	0	10	10
CF	CF42	Delay for four-ways reversing valve (sec)		0	0	0
CF	CF43	Lower main display default visualization		1	1	1
CF	CF44	Upper remote display default visualization		0		
CF	CF45	Lower remote display default visualization		1		
CF	CF46	Local display stand-by visualization		2		
CF	CF47	Remote display stand-by visualization		2		
CF	CF48	4-20mA/0-10V output configuration	0 saída anal. 4...20mA	1	0	0
	Pr2	Clave de acceso(ATENCION aparato en stanby)	0 a 999			
PARAMETROS DO COMPRESOR						
CO	CO01	Minimum on time sec x 10		12	0	0
CO	CO02	Minimum off time sec x 10		18	0	0
CO	CO03	On delay between compressors (valve) sec		5	1	1
CO	CO04	Off delay between compressors (valve) sec		3	0	0
CO	CO05	Compressors activation delay at power-on sec x 10		1	0	0
CO	CO06	Compressor on delay after pump/"supply fan" activation sec		10	1	1
CO	CO07	Compressor off delay after pump/"supply fan" deactivation sec		20	0	0
CO	CO08	Compressor rotating control		0	0	0
CO	CO09	Solenoid valve off delay sec		0	0	0
CO	CO10	Stage valve polarity		0	0	0
CO	CO11	Pump/"supply fan" working mode		2	4	4
CO	CO12	First compressor on/off		0	0	0
CO	CO13	Second compressor/stage valve on/off		0	1	1
CO	CO14	Hour counter set point for first compressor hr x 10		0	0	0
CO	CO15	Hour counter set point for second compressor hr x 10		0	0	0
CO	CO16	Hour counter set point for pump/"supply fan" hr x 10		0	0	0

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Nivel	Nombre	Parametro	Rango	Por defecto	Enfr-1 IC-1	Enfr-2 IC-2
PARAMETROS DO EVAPORADOR						
CO	CO17	Evaporator unloading set °C		110	110	110
CO	CO18	Evaporator unloading differential °C		3	3	3
CO	CO19	Evaporator unloading delay 10 sec		30	0	0
CO	CO20	Evaporator unloading maximum duration 10 sec		100	0	0
PARAMETROS DO CONDENSADOR						
CO	CO21	Condenser unloading set point in chiller mode bar		30.0		
CO	CO22	Condenser unloading differential in chiller mode bar		3.0		
CO	CO23	Condenser unloading set point in heat pump mode bar		1.0		
CO	CO24	Condenser unloading differential in heat pump mode bar		1.0		
CO	CO25	Condenser unloading maximum duration 10 sec		250	0	0
PARAMETROS DA BOMBA DE AUGA DO CONDENSADOR						
CO	CO26	Condenser pump working mode		0		
CO	CO27	Condenser pump off delay after compressor stop sec		10		
CO	CO28	Hour counter set point for condenser pump hr x 10		0		
PARAMETROS DE COMPRESORES EN TANDEM						
CO	CO29	Compressor maximum continuous work duration min		0		
CO	CO30	Compressor start delay after solenoid valve activation 10 sec		0		
PARAMETROS DE MODULACION BOMBA DE AUGA DO EVAPORADOR						
CO	CO31	Time with pump at full speed on regulation request sec		10	10	10
CO	CO32	Minimum % speed with compressor on in chiller mode %		50	30	30
CO	CO33	Minimum % speed with compressor on in heat pump mode %		50	30	30
CO	CO34	Pump % speed with compressor off %		60	50	50
CO	CO35	Pump speed control set point in chiller mode °C		10.0		
CO	CO36	Outgoing water temperature control bandwidth in chiller mode °C		5.0		
CO	CO37	Compressor off delay on regulation request in chiller mode sec		10	10	10
CO	CO38	Pump speed control set point in heat pump mode °C		20.0	30.0	30.0
CO	CO39	Outgoing water temperature control bandwidth in heat pump mode °C		5.0		
CO	CO40	Compressor off delay on regulation request in heat pump mode sec		10	10	10
	Pr2	Clave de acceso(ATENCION aparato en stanby)	0 a 999			
PARAMETROS DE CONTROL VENTILADOR DO CONDENSADOR						
FA	FA01	Fan output		1		
FA	FA02	Fan regulation		2	0	0
FA	FA03	Fan working mode		0	0	0
FA	FA04	Time with fan at full speed when started sec		7		
FA	FA05	Fan phase shift usec x 250		4		
	FA06	NON USAR				
FA	FA07	Cooling pre-ventilation before compressor activation sec		10	0	0
FA	FA08	Minimum fan speed in chiller mode %		30		
FA	FA09	Maximum fan speed in chiller mode %		100		
FA	FA10	Temperature/pressure set point for minimum speed in chiller mode °C		15.0		
FA	FA11	Temperature/pressure set point for maximum speed in chiller mode °C		19.0		
FA	FA12	Proportional bandwidth in chiller mode °C		3.0		
FA	FA13	Cut-off differential in chiller mode °C		1.0		
FA	FA14	Override cut-off in chiller mode °C		2.0		
FA	FA15	Cut-off delay sec		0		
FA	FA16	Fan speed with night function in chiller mode %		80		
FA	FA17	Minimum fan speed in heat pump mode %		30		

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Parámetros controlador DIXELL IC111CX

Nivel	Nombre	Parametro	Rango	Por defecto	R-290 Enfr-1 IC-1	R-290 Enfr-2 IC-2
FA	FA18	Maximum fan speed in heat pump mode %		100		
FA	FA19	Temperature/pressure set point for minimum speed in heat pump mode °C		7.0	30	30
FA	FA20	Temperature/pressure set point for maximum speed in heat pump mode °C		4.0	35	35
FA	FA21	Proportional bandwidth in heat pump mode °C		2.0		
FA	FA22	Cut-off differential in heat pump mode °C		1.0		
FA	FA23	Override cut-off in heat pump mode °C		2.0		
FA	FA24	Fan speed with night function in heat pump mode %		80		
PARAMETROS FUNCIONAMIENTO EN CALOR						
FA	FA25	Hot start set point °C		18.0		
FA	FA26	Hot start differential °C		2.0		
	Pr2	Clave de acceso(ATENCION aparato en stanby)	0 a 999			
PARAMETROS ANTI-XEO						
Ar	Ar01	Minimum value of anti-freeze set point °C		-20		
Ar	Ar02	Maximum value of anti-freeze set point °C		110		
Ar	Ar03	Anti-freeze set point °C		2.0		
Ar	Ar04	Anti-freeze differential °C		3.0		
Ar	Ar05	Anti-freeze alarm delay sec		15	15	15
Ar	Ar06	Maximum number of anti-freeze alarm events per hour		3	16	16
Ar	Ar07	Anti-freeze alarm delay at power-on in heat pump mode sec		10		
Ar	Ar08	Anti-freeze heaters set point in chiller mode °C		3.0		
Ar	Ar09	Anti-freeze heaters set point in heat pump mode °C		3.0		
Ar	Ar10	Anti-freeze external heaters set point (water/water units) °C		3.0		
Ar	Ar11	Anti-freeze heaters differential in chiller mode °C		4.0		
Ar	Ar12	Anti-freeze heaters differential in heat pump mode °C		4.0		
Ar	Ar13	Anti-freeze heaters activation		0		
Ar	Ar14	Anti-freeze heaters control in chiller mode		1		
Ar	Ar15	Anti-freeze heaters control in heat pump mode		1		
Ar	Ar16	Anti-freeze regulation probe in chiller mode		1		
Ar	Ar17	Anti-freeze regulation probe in heat pump mode		1		
Ar	Ar18	Water pump/anti-freeze heaters control with unit off or stand-by		1		
Ar	Ar19	Water pump/anti-freeze heaters control with faulty probe		1		
PARAMETROS DE FUNCIONAMIENTO CALDEIRA						
Ar	Ar20	Boiler function		0		
Ar	Ar21	External air set point for boiler heaters activation °C		1.0		
Ar	Ar22	Boiler heaters differential °C		2.0		
Ar	Ar23	Boiler heaters activation delay min		1		
Ar	Ar24	Second boiler heaters activation delay min		5		
Ar	Ar25	External air set point for compressors deactivation °C		-30		
Ar	Ar26	External air differential for compressors activation °C		2.0		
PARAMETROS DE ALARMAS DESXEO FUNCIONAMIENTO EN ALTA PRESION						
Ar	Ar27	Anti-freeze set point in heat pump mode °C		3.0		
Ar	Ar28	Anti-freeze differential in heat pump mode °C		2.0		
PARAMETROS BOMBA DE AUGA EVAPORADOR RESPECTO A Sonda AMBIENTE						
Ar	Ar29	Set point for water pump activation by external probe °C		3.0		
Ar	Ar30	Differential for water pump activation by external probe °C		2.0		
PARAMETROS BOMBA DE AUGA CONDENSADOR						
Ar	Ar31	Condenser pump regulation during off or stand-by		1		
Ar	Ar32	Condenser pump control with faulty probe		0		

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Nivel	Nombre	Parametro	Rango	Por defecto	R-290 Enfr-1 IC-1	R-290 Enfr-2 IC-2
	Pr2	Clave de acceso(ATENCION aparato en stanby)	0 a 999			
PARAMETROS DESXEO						
DF	DF01	Defrost control	0(NON) 1 (SI)	1		
DF	DF02	Defrost mode	0(TEMP) 1 Tempo	0	0	0
DF	DF03	Temperature/pressure set point for defrost start °C		5.0	-5	-5
DF	DF04	Temperature/pressure set point for defrost stop °C		14.0	8	8
DF	DF05	Minimum delay time before starting forced defrost sec		10		
DF	DF06	Minimum defrost duration sec		10		
DF	DF07	Maximum defrost duration min		5		
DF	DF08	Compressor off time before starting defrost sec		10	0	0
DF	DF09	Compressor off time after defrost sec		10	0	0
DF	DF10	Interval time between defrost cycles min		5		
DF	DF11	Temperature set point for defrost start after DF10 delay °C		3.0		
DF	DF12	Temperature set point for defrost stop °C		10.0	8	8
DF	DF13	Forced activation of second compressor during defrost		0		
DF	DF14	Fan enable during defrost and dripping time		0		
DF	DF15	Temperature/pressure set point to force fan activation during defrost °C		17.0		
DF	DF16	Low temperature alarm during defrost		0		
DF	DF17	Low temperature alarm delay during defrost sec		10		
DF	DF18	Four-ways reversing valve		0	1	1
DF	DF19	Temperature/pressure set point for forced defrost °C		1.0	-10	-10
DF	DF20	Differential for forced defrost °C		0.5		
	DF21	Fan stop during defrost		0	0	0
	Pr2	Clave de acceso(ATENCION aparato en stanby)	0 a 999			
PARAMETROS DE ALARMAS						
AL	AL01	Digital input low pressure alarm delay sec		120	5	5
AL	AL02	Maximum digital input low pressure alarm events per hour		3	4	4
AL	AL03	Low pressure alarm enable during off or stand-by		1	0	0
AL	AL04	Water flow/supply fan alarm delay sec		5		
AL	AL05	Maximum water flow/supply fan alarm duration sec		4		
AL	AL06	Water flow/supply fan input activation duration sec		5		
AL	AL07	Water flow/supply fan input deactivation duration sec		5		
AL	AL08	Compressors thermal protection alarm delay sec		10	5	5
AL	AL09	Maximum number of compressors thermal protection alarm events per hour		3		
AL	AL10	Maximum number of condensing high temperature/pressure events per hour		2	3	3
AL	AL11	Condensing high temperature/pressure alarm set point °C		50.0	58.0	58.0
AL	AL12	Condensing high temperature/pressure alarm differential °C		2.0		
AL	AL13	Input probe low temperature/pressure alarm delay sec		120	10	10
AL	AL14	Input probe low temperature/pressure alarm set point °C		1.0	-15	-15
AL	AL15	Input probe low temperature/pressure alarm differential °C		2.0		
AL	AL16	Maximum number of input probe low temperature/pressure alarm events per hour		3		
AL	AL17	Alarm relay open collector output enable during off or stand-by		0	1	1
AL	AL18	Alarm relay open collector output polarity		0		
AL	AL19	Anti-freeze alarm probe selection		2		
AL	AL20	Maximum number of global alarm events per hour		0	4	4
AL	AL21	Global alarm input delay sec		0		
AL	AL22	Global alarm output delay sec x 10		0		
AL	AL23	Generic alarm working mode		1		
AL	AL24	Incoming water ht alarm set point °C		70.0		

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AL	AL25	Incoming water ht alarm differential °C		2.0		
AL	AL26	Incoming water ht alarm delay sec x 10		1		
AL	AL27	Maximum number of incoming water ht alarm events per hour		1		
AL	AL28	Hot water flow alarm delay after water pump on/off sec		5		
AL	AL29	Condenser water flow alarm maximum duration sec		5		
AL	AL30	Hot water flow control on time (water pump off) sec		5		
AL	AL31	Hot water flow control off time (water pump on) sec		5		
AL	AL32	Hot water flow control working mode		0		
	Pr2	Clave de acceso(ATENCION aparato en stanby)	0 a 999			

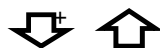
Bloques de parámetros

ALL	
ST	Parametros de regulación
CF	Parametros de configuración
SD	Parametros de valor de axuste dinámico
ES	Parametros de xestion de enerxía
CO	Parametros de compresor
FA	Parametros de ventiladores
Ar	Parametros anti-xeo
DF	Parametros de desxeo
AL	Parametros de alarma

PROGRAMACIÓN	** Para entrar en programación Pulsar SET + 	2seg BLOQUES Se estan nivel Pr2
	** SET: selecciona o confirma un valor	Clave 0
	** Para salir de programación Pulsar Set + 	

** Para ver o set point pulsar SET durante 5seg.

** Bloquear e desbloquear teclado



Se estamos en stanby: para arrancar pulsar frio ou calor 5seg

Para entrar en stanby: se estamos modo calor pulsar calor 5seg

Para entrar en stanby: se estamos modo frio pulsar frio 5seg