PARAMETER'S TABLE

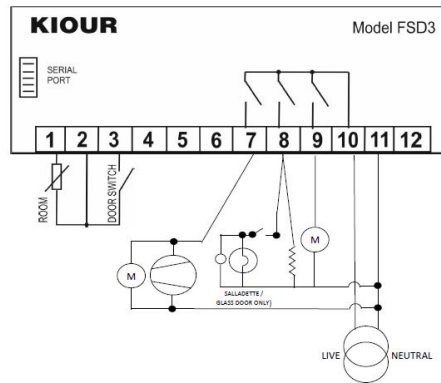| No	code	description	min	max	M.M.	Upright chiller R134a Program 33	Upright chiller R290 Program 38	Upright freezer with stainless door R404A Program 36	Upright freezer with stainless door R290 Program 34	Upright freezer with glass door R404A Program 37	Upright freezer with glass door R290 Program 35	Freezer counters Program 39	Refrigerated counters Program 31	Saladette Program 32
						INDUSTRIAL FACTORY SETTINGS OF THE CABINET								
1	SPo	SET POINT: room temperature setting	LSP	HSP	°C/°F	0.0	0.0	-20.0	-22.0	-18.0	-18.0	-20.0	0.0	3.0
2	ALo	Low alarm room threshold	-50.0	150	°C/°F	-5.0	-5.0	-25.0	-25.0	-22.0	-22.0	-25.0	-5.0	-5.0
3	AHi	High alarm room threshold	-50.0	150	°C/°F	15.0	15.0	0.0	0.0	0.0	0.0	0.0	15.0	15.0
4	dr1	Time between two successive defrost	1	100	hours	4	4	5	7	5	7	3	4	4
5	Cod	**Access code to the following parameters Cod = 22.**	0	255	-	22	22	22	22	22	22	22	22	22
6	diF	Differential of room temperature SPo (thermostat delay)	0.1	25.5	°C/°F	3.0	3.0	3.0	4.0	3.0	4.0	2.0	3.0	3.0
7	dd2	*Defrost duration* (manual and automatic), where 0 = defrost is deactivated.	0	120	min	20	20	35	35	35	35	30	25	25
8	dP3	Dripping timer, where the compressor is OFF after defrost	0	15	min	2	2	5	5	5	5	3	0	0
9	dY4	*Display indication during defrost* -02 = indication SPo+diF when room's temperature is greater than SPo+diF -01 = indication dFr when room's temperature is greater than SPo+diF 0 = indication of room's temperature 1 to 40 min = indication dFr from 1 to 40 min counting from the beginning of defrost	-02	40	min	25	25	35	35	35	35	15	25	25
10	dE5	*Defrost end temperature* *with the evaporator's temperature sensor activated* Automatic and manual defrost does not start if the evaporator temperature is greater than the defrost end temperature dE5. In case of evaporator's sensor malfunction (LF2), there is no check of defrost end temperature and defrosting is completed after time adjusted in parameter dd2 elapses. *with the evaporator's temperature sensor deactivated* Defrost end temperature is the room temperature. Automatic defrost does not start if the evaporator temperature is greater than the defrost end temperature dE5. Manual defrost starts regardless of the room's temperature and ends after time adjusted in parameter dd2 elapses.	0.0	100	°C/°F	20.0	20.0	30.0	30.0	30.0	30.0	8.0	20.0	20.0
11	dt6	*Type of defrost* 0 = electrical (compressor OFF, resistance ON), if SPo is smaller or equal than -0.1°C defrost occurs using the resistance based on time adjusted from the parameter dd2, if SPo is greater or equal than 0°C defrost occurs using the fan based on time adjusted from the parameter dd2. 1 = hot gas (compressor ON, resistance ON) - - - - - - - - - - - *Defrost with the evaporator's temperature sensor activated* Automatic or manual defrost ends either with time adjusted from the parameter dd2 or with defrost end temperature dE5, whatever comes first. Automatic or manual defrost does not start if the evaporator temperature is greater than the defrost end temperature dE5. *Defrost with the evaporator's temperature sensor deactivated* Defrost end temperature is the room temperature. Automatic defrost ends either with time adjusted from the parameter dd2, or with defrost end temperature dE5, whatever comes first.	0	1	-	0	0	0	0	0	0	1	0	0

#		Description	Min	Max	Unit									
		Manual defrost starts regardless of the room's temperature and ends after time adjusted in parameter dd2 elapses.												
12	AF1	*Alarm setting* 0 = automatic deactivation, where the alarm stops once the cause of the alarm disappears. 1 = manual deactivation, where the alarm indication remains even if the cause of the alarm disappears and it's cleared only by pressing ⊙. In any case by pressing ⊙, the buzzer stops and ⚠ turns on to state that the cause of the alarm still exists. Muting the alarm buzzer by pressing ⊙ once is valid until all alarms disappear.	0	1	-	0	0	0	0	0	0	0	0	0
13	At2	*Time delay in activating "AHi", "ALo" and the buzzer among them. This setting does not apply to sensor failure and door alarm.* -01 = deactivate buzzer 0 = immediate buzzer activation 1 to 120 min = delay in buzzer activation When the cabinet starts for the first time, the buzzer is deactivated until the last alarm disappears.	-01	120	min	25	25	60	60	60	60	60	20	20
14	Fo1	Evaporator's temperature controlling the fan operation during defrost and normal operation (parameter oS2 = 1). If the evaporator's sensor is deactivated, the parameter does not operate. For more information check the parameters Ft2 and Fd3.	-50	100	°C/°F	5.0	5.0	-10.0	-10.0	-10.0	-10.0	-5.0	0.0	0.0
15	Ft2	*Evaporator's fan operation* -01 = continuous function 0 = parallel with the compressor 1 to 15 min = functions at the same time with the compressor and when the compressor stops, the fan stops after the selected minutes	-01	15	min	0	0	0	0	0	0	-1	-01	-01
16	Fd3	*Fan's operation during defrost for SPo smaller or equal than -0.1°C* 0 = OFF and starts with the compressor if the evaporator's temperature is smaller than Fo1. During hot-gas, where the compressor is always ON, the fan starts if the evaporator's temperature is smaller than Fo1. This setting applies only with the evaporator's sensor activated. 1 = ON when the evaporator's temperature is smaller than Fo1 – setting applies only with the evaporator's sensor activated 2 = always ON in both types of defrost (electrical / hot gas) regardless of the evaporator's sensor operation	0	2	-	0	0	0	0	0	0	0	2	2
17	Co1	Compressor's minimum time ON	0	15	min	0	0	0	0	0	0	0	0	0
18	CP2	Compressor's minimum time OFF	0	15	min	2	2	2	2	2	2	2	2	2
19	CF3	*Compressor's operation in case of room's sensor malfunction* -01 = compressor OFF 0 = compressor ON while defrost starts based on timer dr1 and ends based on timer dd2 or temperature dE5, whichever comes first.1 to 150 min = compressor time ON while defrost starts based on timer dr1 and ends based on timer dd2 or temperature dE5, whichever comes first.	-01	150	min	3	3	3	3	3	3	3	3	3
20	CF4	Compressor time OFF in case of room's sensor malfunction	1	150	min	3	3	3	3	3	3	3	4	4
21	SE1	Room sensor offset	-10.0	15.5	°C/°F	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
22	SE2	Evaporator sensor offset	-10.0	15.5	°C/°F	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

#	Code	Description	Min	Max	Unit									
23	oS2	Evaporator's sensor operation 0 = deactivated sensor 1 = activated sensor When the sensor is deactivated, by pressing ⊙ T2 it is displayed "- - -". During defrost and when the sensor is deactivated, the defrost end temperature dE5 is the room temperature.	0	1	-	1	1	1	1	1	1	1	0	0
24	LSP	Lower setting limit of SPo	-50.0	150	°C/°F	-2.0	-2.0	-21.0	-22.0	-18.0	-18.0	-21.0	0.0	3.0
25	HSP	Maximum setting limit of SPo	-50.0	150	°C/°F	10.0	10.0	-10.0	-10.0	-10.0	-10.0	-10.0	10.0	10.0
26	C_F	Temperature measurement unit: toggling between °C/°F do not adjust automatically parameters regarding temperature, the user must change them manually 0 = °C 1 = °F	0	1	°C/°F	0	0	0	0	0	0	0	0	0
27	SEn	Sensor type NTC/PTC 0 = PTC 1 = NTC	0	1	-	1	1	1	1	1	1	1	1	1
28	trE	Response time of the device on network	20	100	msec	50	50	50	50	50	50	50	50	50
29	Add	Device address on network	0	255	-	1	1	1	1	1	1	1	1	1
30	diP	Display's indication 0 = room temperature indication 1 = SET POINT (SPo) indication unless an alarm appears. The first time that the cabinet turns on, room's temperature is displayed until the cabinet reaches for the first time SPo. Afterwards SPo is constantly displayed regardless of room temperature.	0	1	-	0	0	1	1	1	1	0	0	0
31	Odo	Door switch operation 0 = OFF 1 = NC (normally close) 2 = NO (normally open) If the cabinet's door remains open for 2 minutes, the alarm dor is activated and the compressor stops.	0	2	-	1	1	1	1	1	1	0	0	0
32	Pro	cabinet's program is displayed (industrial factory settings) – the parameter cannot be programmed	-	-	-	33	38	36	34	37	35	39	31	32
33	bAU	Baud rate: 0 = 2400 / 1 = 4800 / 2 = 9600 / 3 = 19200	0	3	-	3	3	3	3	3	3	3	3	3
34	tPE	Product number – not programmable	-	-	-	200	200	200	200	200	200	200	200	200
35	UEr	Firmware version - no access	-	-	-	4.2.X	4.2.X	4.2.X	4.2.X	4.2.X	4.2.X	4.2.X	4.2.X	4.2.X

ALARM'S TABLE

1	LF1	Room sensor malfunction
2	LF2	Evaporator sensor malfunction
3	ALo	Low room temperature
4	AHi	High room temperature
5	dor	Open door (If the cabinet's door remains open for 2 minutes, the alarm dor is activated and the compressor stops)
6	EEr	error in memory RAM: re-enter the SPo of the cabinet (see ADJUSTING ROOM'S TEMPERATURE – SET POINT page 1)

The alarms are automatically deactivated once the cause of the alarm disappears.

Made in Greece.

TÜV AUSTRIA HELLAS EN ISO 9001:2015 No.: 01010362   RoHS   CE

Saladette cabinet's and Glass door RU

PARAMETER'S TABLE

No	code	description	min	max	UOM	INDUSTRIAL FACTORY SETTINGS	
						COUNTERS RU Program 31	SALADETTE RU Program 32
1	SPo	SET POINT: room temperature setting	LSP	HSP	°C/°F	0.0	3.0
2	ALo	Low alarm room threshold	-50.0	AHi	°C/°F	-5.0	-5.0
3	AHi	High alarm room threshold	ALo	150	°C/°F	+15.0	+15.0
4	dr1	Time between two successive defrost, where 0 = defrost is deactivated.	0	12	hours	4	4
5	Cod	**Access code to the following parameters Cod = 22.**	0	255	-	31	32
6	diF	Differential of room temperature SPo (thermostat delay)	0.1	25.5	°C/°F	3.0	3.0
7	dd2	Defrost duration. Manual defrost lasts 20 minutes.	1	90	minutes	25	25
8	dP3	Dripping timer, where the compressor is OFF after defrost	0	10	minutes	0	0
9	dY4	Display indication during defrost 0 = indication of room's temperature 1 to 99 minutes = indication dFr from 1 to 90 min counting from the beginning of defrost	0	99	minutes	25	25
10	dE5	Defrost end temperature Defrost end temperature is the room temperature. Automatic defrost does not start if the evaporator temperature is greater than the defrost end temperature dE5. Manual defrost starts regardless of the room temperature and ends after 20 minutes.	0.0	25.5	°C/°F	12.0	12.0
11	dt6	(not in use)					
12	AF1	(not in use)					
13	At2	Time delay in activating "AHi" and the buzzer. This setting does not apply to "ALo", sensor malfunction and door alarm. 0 = immediate buzzer activation 1 to 120 minutes = delay in buzzer activation	0	120	minutes	20	20
14	Fo1	(not in use)					
15	Ft2	Evaporator's fan operation. During defrost the fan operates. -1 = continuous function 0 = parallel with the compressor	-1	0	-	-1	-1
16	tSd	delay of room temperature on screen	0	20	sec	0	0
17	Co1	(not in use)					
18	CP2	Compressor's minimum time OFF	0	4	minutes	2	2
19	CF3	Compressor's operation in case of room's sensor malfunction 0 = 40% ON compressor (3 minutes ON, 4 minutes OFF) 1 = ON compressor constantly	0	1	-	0	0
20	UFu	Serial input operation 0 = operates with CAMIN network and key memory 1 = connection with an external device for alarm output ATTENTION: when parameter Add is different than zero, the UFu parameter automatically is programmed to zero.	0	1	-	1	1
21	SE1	Room sensor offset	-9.9	+15.5	°C/°F	0.0	0.0
22	SE2	(not in use)					
23	oS2	(not in use)					
24	LSP	Lower setting limit of SPo	-50.0	HSP	°C	0.0	3.0
25	HSP	Maximum setting limit of SPo	LSP	150	°C	+10.0	+10.0
26	C_F	Temperature measurement unit: toggling between °C/°F do not adjust the SPo automatically, it must be changed by the user 0 = °C 1 = °F	0	1	°C/°F	0	0
27	SEn	Sensor type NTC/PTC 0 = PTC 1 = NTC	0	1	-	1	1
28	trE	Response time of the device on network	0	100	msec	20	20
29	Add	Device address on network	0	255	-	1	1
30	diP	(not in use)					
31	Odo	Door switch operation 0 = OFF 1 = NO (normally open) 2 = NC (normally close) If the cabinet's door remains open for 2 minutes, the alarm *dor* is activated and the compressor stops.	0	2	-	0	0

ALARM TABLE

1	LF1	Room sensor malfunction
2	ALo	Low room temperature
3	AHi	High room temperature
4	dor	Open door (If the cabinet's door remains open for 2 minutes, the alarm *dor* is activated and the compressor stops)
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The alarms are automatically deactivated once the cause of the alarm disappears.

Made in Greece.

The device is under two year's guarantee. The guarantee is valid only if the manual instructions have been applied. The control and service of the device must be done by an authorized technician. The guarantee covers only the replacement or the service of the device. KIOUR preserves the right to adjust its products without further notice.