

Chart comparing the regulatory demands of European countries with regard to the atmospheric emissions of crematoria

																		SPAIN, Draft new regulation from Ministry (if is a minimum for different Regions, who can regulate more strict, and usually they do)		
		Belgique / Bruxelles	Belgique / Flanders	Belgique / Wallonie	Swiss	Germany	Poland	Czech Republic	Austria	UK	The Netherlands	Sweden *)	Finland **)	Denmark	Norway	France	Italy	Spain (New facilities, <200 cremations/year)	Spain (New facilities, >200 cremations/year)	Spain (Existing facilities)
Air pollutants	unit	11% O2 dry	11% O2 dry	11% O2 dry	11% O2 dry	11% O2 dry	11% O2 dry	11% O2 dry	11% O2 dry	11% O2 dry	11% O2 dry	11% O2 dry	11% O2 dry	11% O2 dry	11% O2 dry	11% O2 dry	11% O2 dry	11% O2 dry	11% O2 dry	11% O2 dry
Dust	mg/m3	30	30	20	20	10	80	125	100	20	10	10	10	10	20	10	30	100	30	100
Mercury : Hg	mg/m3	0.1	0.2	0.05	0.2	NA	NA	NA	0.1	0.05	0.05	0.08	0.1	0.1	0.05	0.2	0.05	1	0.2	1
Dioxins :PCDD/F	ng/m3	0.1	0.1	0.1	0.1	0.1	NA	NA	0.1	0.1	0.1	0.1	NA	NA	NA	0.1	0.1	-	0.1	-
Carbon Monoxide: CO	mg/m3	100	100	50	50	50	100	100	100	100	NA	50	50	50/500	100/150	50	100	400	100	400
Hydrocarbons: CxHy	mg/m3	NA	150	150	20	20	NA	15	20	20	NA	NA	NA	NA	NA	20	20	30	20	30
Oxides of Nitrogen : Nox	mg/m3	NA	400	400	250	NA	500	350	NA	NA	400	NA	NA	NA	NA	500	400	250	250	250
Hydrogen Chloride: HCl	mg/m3	NA	30	20	30	40	200	30	30	30	10 (1.5h average)	NA	NA	NA	NA	30	30	60	30	60
Oxides of Sulphur: Sox	mg/m3	200	300	NA	-	NA	200	NA	NA	NA	300	NA	NA	NA	NA	120	200	200	50	200

NA not applicable

Other significant information, Chart showing the legislation of countries with regard to the obligations of means to be respected during the operation of crematoria

		Belgique /	Belgique /	Belgique /	Swiss	Germany	Poland	Czech	Austria	UK	The	Sweden *)	Finland **)	Denmark	Norway	France	Italy	Spain	Spain	Spain
	unit	11% O2 dry	11% O2 dry	11% O2 dry	11% O2 dry	11% O2 dry	11% O2 dry	11% O2 dry	11% O2 dry	11% O2 dry	11% O2 dry	11% O2 dry	11% O2 dry	11% O2 dry	11% O2 dry	11% O2 dry	11% O2 dry	11% O2 dry	11% O2 dry	11% O2 dry
Minimum O ² rate in secondary chamber	%				-	6	NA	-	6	6	6% (3% for 1 min)	NA	4	4	NA	6	6	6% average	6% average	6% average
Residence Time (seconds)	seconds				-	1.5 sec.	NA	1 sec.	NA	2	1.5	NA	-	1	1	2	2	2	2	2
Minimum temperature in secondary chamber (°C)	°C				-	850	NA	850	NA	800	800	800	800	800	850	850	850	850	850	850
Minimum temperature in primary chamber for an coffin introduction (°C)	°C				-	NA	NA	-	NA	none	NA	700	750	NA	NA	350	300	-	-	-
Maximum temperature in primary chamber for an coffin introduction (°C)	°C				-	650	NA	NA	NA	none	NA	NA	No	NA	NA	900	800	-	-	-
Exhaust gas (m/s)	m/s				-	NA	NA	NA	NA	15	NA	8	-	NA	10	8		-	-	-
Chimney height (y/No)	Yes or No		Yes		Yes	Yes	Yes	NA	NA	Yes	NA	Yes	No	Yes	Yes	Yes		Yes	Yes	Yes
Regulations concerning coffins	Yes or No		Yes		Yes	NA	Yes	NA	NA	Yes		no	Yes	Yes	No		Yes	Yes	Yes	Yes
Regulations coffin content	Yes or No		Yes		Yes	NA	No	no	NA	Yes	No	no	No	Yes	No	No	No	Yes	Yes	Yes
Noise level regulation	Yes or No		Yes		Yes	NA	Yes	NA	NA	Yes	No	Yes	No	Yes	No		No	Yes	Yes	Yes
Burning time, less than ... (mins)	minutes		No				NA		NA	none	none	NA	NA	NA	NA	90	No	-	-	-
Continuous monitoring of :																				
Temperature	Yes or No		Yes		Yes	NA	No	NA	NA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
O ²	Yes or No		Yes		Yes	NA	No	NA	NA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CO	Yes or No		Yes		Yes	NA	No	NA	NA	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
Others :						NA	NA	NA		Yes	No	NA	NA	NA	NA					
Other special features																				
Frequencies of regulatory controls			Annual		annual		rarely			annual emission tests	annual equipment control	2 or 3 years	every year	Yes	Yes	bi-annual	annual	triennial	triennial	triennial
Regulation on Fuel							No					Yes	no	No	No	No	Yes			
Nber of cremations for emissions test			6 hours		3	3	NA			3	2	No	when ordered	Yes	No	Yes	No			
is it possible to have a single filtration for two or three devices of cremation? (regulatory context?)			Yes		Yes		NA			Yes	Yes	No	Yes	Yes	Yes	Yes	Yes			
can the cremation device operate in by-pass during the period of maintenance of the filtration facilities?			Yes		No		NA			Yes	Yes	Yes	Yes	No	No	Yes	No			
What happens to the recovered metals? (regulatory context?)			Recycled		recycling		NA			recycled	recycled	recycling	recycling	recycling	NA	Recycling	Recycling (60% of crematoria)			