

## Biomass boiler emissions

Model	Fuel	NO <sub>x</sub> mg/MJ	RHI Criteria for NO <sub>x</sub> )2 (mg/MJ)	PM mg/MJ	RHI criteria for PM (dust) O <sub>2</sub> (mg/MJ)	Emission concentrations at specified O <sub>2</sub> (% dry) mg/m <sup>2</sup>			
						0	6	10	11
Vitoligno 300-C 8kW	Pellets	76		1		4.0	2.8	2.1	1.9
Vitoligno 300-C 12kW	Pellets	76		1		4.0	2.8	2.1	1.9
Vitoligno 300-C 18kW	Pellets	76		1		4.0	2.8	2.1	1.9
Vitoligno 300-C 24kW	Pellets	88	<150	8	<30	31.6	22.6	16.6	15.1
Vitoligno 300-C 32kW	Pellets	88		8		31.6	22.6	16.6	15.1
Vitoligno 300-C 40kW	Pellets	88		8		31.6	22.6	16.6	15.1
Vitoligno 300-C 48kW	Pellets	88		8		31.6	22.6	16.6	15.1
Vitoligno 300-P 12kW	Pellets	89		6		23.7	16.9	12.4	11.3
Vitoligno 300-P 24kW	Pellets	99	<150	15	<30	59.3	42.3	31.1	28.2
Vitoligno 300-P 32kW	Pellets	79		10		39.5	28.2	20.7	18.8
Vitoligno 300-P 40kW	Pellets	79		11		43.5	31.1	22.8	20.7
Pyromat Eco 35/ Vitoligno 250-S	Log Wood	77		21		83.0	59.3	43.5	39.5
Pyromat Eco 65/ Vitoligno 250-S	Log Wood	87		23		90.9	64.9	47.6	43.3
Pyromat Eco 85/Vitoligno 250-S	Log Wood	81	<150	27	<30	106.7	76.2	55.9	50.8
Pyromat Eco 61/ Vitoligno 250-S	Log Wood	99		24		94.9	67.8	49.7	45.2
Pyromat Eco 151/ Vitoligno 250-S	Log Wood	99		29		114.6	81.9	60.0	54.6
Pyrot 100/Vitoflex 300 RF	Pellets	89		2		7.9	5.6	4.1	3.8
	Wood chips	57		11		43.5	31.1	22.8	20.7
Pyrot 150/220/Vitoflex 300 RF	Pellets	72		4		15.8	11.3	8.3	7.5
	Wood chips	35	<150	24	<30	94.9	67.8	49.7	45.2
Pyrot 300/Vitoflex 300 RF	Pellets	47		2		7.9	5.6	4.1	3.8
	Wood chips	49		17		67.2	48.0	35.2	32.0
Pyrot 400/540/Vitoflex 300 RF	Pellets	51		13		51.4	36.7	26.9	24.5
	Wood chips	70		9		35.6	25.4	18.6	16.9
Pyromat DYN 45/Vitoligno 250-F	Pellets	77		8		31.6	22.6	16.6	15.1
	Wood chips	65		15		59.3	42.3	31.1	28.2
	Log	91	<150	15	<30	59.3	42.3	31.1	28.2
Pyromat DYN 85/Vitoligno 250-F	Pellets	66		17		67.2	48.0	35.2	32.0
	Wood chips	55		18		71.1	50.8	37.3	33.9
	Log	100		31		122.5	87.5	64.2	58.3
Pyrotec 390/Vitoflex 300-UF	Pellets	66		15		59.3	42.3	31.1	28.2
	Wood Chips	67		20		79.1	56.5	41.4	37.6
Pyrotec 720/Vitoflex 300-UF	Pellets	45		23		90.9	64.9	47.6	43.3
	Wood Chips	47	<150	22	<30	87.0	62.1	45.5	41.4
Pyrotec 950/Vitoflex 300-UF	Pellets	45		23		90.9	64.9	47.6	43.3
	Wood Chips	47		22		87.0	62.1	45.5	41.4
Pyrotec 1250/Vitoflex 300-UF	Wood Chips	88		33		130.4	93.2	68.3	62.1