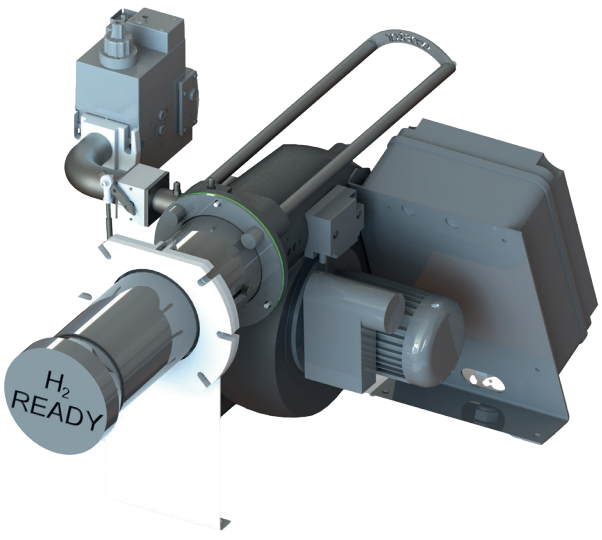
ECO H2 SERIES
MONOBLOCK BURNER SPECIFICATIONS

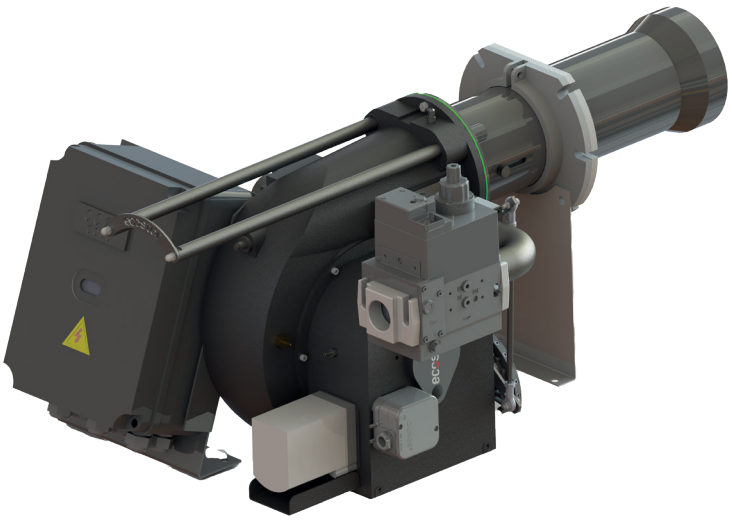
ecostar COMBUSTION SYSTEMS

new

SPECIFICATIONS

- Two-stage and Modulating operation,
- Mechanical, pneumatic or electronic modulating control options,
- Performance superiority in high back pressure boilers,
- Ability to operate with Hydrogen, Natural gas and LPG fuel,
- Possibility to work at 10 mbar – 700 mbar gas inlet pressure,
- Wide thermal capacity adjustment range according to the heat requirement,
- Adequate gas pressure control with minimum gas pressurestat.
- Hydrogen compatibility and low emission with special combustion head,
- Combustion air control with air pressurestat,
- Operation at low noise levels with its aluminum alloy, light body,
- Minimum friction losses on body and combustion nozzle,
- Combustion air flow adjustment with internal fan flap,
- Sliding flange for connection to different boiler types,
- Compact design requiring minimal maintenance,
- Environmentally-friendly with lower NOx and CO emissions.





ECO H2 GAS BURNERS
CAPACITY TABLE

ONE STAGE GAS BURNERS

BURNER TYPE	CAPACITY		CAPACITY		NATURAL GAS CONSUMPTION		LPG GAS CONSUMPTION		FAN MOTOR POWER	MAIN SUPPLY
	Min. kcal/h	Max. kcal/h	Min. kW	Max. kW	Min. Nm³/h	Max. Nm³/h	Min. Nm³/h	Max. Nm³/h	kW	VAC
ECO 1 G C 1	8.600	43.000	10	50	1,0	5,2	0,4	1,9	0,11	1N 240
ECO 1 G C 1a	17.200	86.000	20	100	2,1	10,4	0,8	3,8	0,11	1N 240
ECO 2 G C 1	51.600	172.000	60	200	6,3	20,8	2,3	7,6	0,15	1N 240
ECO 2 G C 1a	86.000	299.280	100	348	10,4	36,3	3,8	13,3	0,15	1N 240

TWO STAGE GAS BURNERS

BURNER TYPE	CAPACITY		CAPACITY		NATURAL GAS CONSUMPTION		LPG GAS CONSUMPTION		FAN MOTOR POWER	MAIN SUPPLY
	Min. kcal/h	Max. kcal/h	Min. kW	Max. kW	Min. Nm³/h	Max. Nm³/h	Min. Nm³/h	Max. Nm³/h	kW	VAC
ECO 2 G C 2	51.600	172.000	60	200	6,25	20,85	2,29	7,64	0,15	1N 240
ECO 2 G C 2 a	86.000	299.280	100	348	10,42	36,28	3,82	13,30	0,15	1N 240
ECO 30 G C 2	163.400	387.000	190	450	19,81	46,91	7,26	17,20	0,37	1N 240
ECO 30 G C 2a	223.600	602.000	260	700	27,10	72,97	9,94	26,76	0,75	3N 400
ECO 45 G C 2	288.100	645.000	335	750	34,92	78,18	12,80	28,67	0,75	3N 400
ECO 45 G C 2/L	288.100	749.920	335	872	34,92	90,90	12,80	33,33	0,75	3N 400
ECO 45 G C 2a	331.100	928.800	385	1080	40,13	112,58	14,72	41,28	1,1	3N 400
ECO 45 G C 2b	331.100	1.075.000	385	1250	40,13	130,30	14,72	47,78	1,5	3N 400
ECO 50 G C 2	215.000	1.290.000	250	1500	26,06	156,36	9,56	57,33	2,2	3N 400
ECO 55 G C 2	258.000	1.720.000	300	2000	31,27	208,48	11,47	76,44	3	3N 400
ECO 55 G C 2a	258.000	2.150.000	300	2500	31,27	260,61	11,47	95,56	3	3N 400
ECO 60 G C 2	369.800	2.580.000	430	3000	44,82	312,73	16,44	114,67	4	3N 400
ECO 65 G C 2	430.000	3.010.000	500	3500	52,12	364,85	19,11	133,78	5,5	3N 400
ECO 70 G C 2	498.800	3.500.200	580	4070	60,46	424,27	22,17	155,56	7,5	3N 400

MODULATING GAS BURNERS

BURNER TYPE	CAPACITY		CAPACITY		NATURAL GAS CONSUMPTION		LPG GAS CONSUMPTION		FAN MOTOR POWER	MAIN SUPPLY
	Min. kcal/h	Max. kcal/h	Min. kW	Max. kW	Min. Nm³/h	Max. Nm³/h	Min. Nm³/h	Max. Nm³/h	kW	VAC
ECO 2 G C 3	51.600	172.000	60	200	6,25	20,85	2,29	7,64	0,15	1N 240
ECO 2 G C 3 a	86.000	299.280	100	348	10,42	36,28	3,82	13,30	0,15	1N 240
ECO 30 G C 3	163.400	387.000	190	450	19,81	46,91	7,26	17,20	0,37	1N 240
ECO 30 G C 3a	223.600	602.000	260	700	27,10	72,97	9,94	26,76	0,75	3N 400
ECO 45 G C 3	288.100	645.000	335	750	34,92	78,18	12,80	28,67	0,75	3N 400
ECO 45 G C 3/L	288.100	749.920	335	872	34,92	90,90	12,80	33,33	0,75	3N 400
ECO 45 G C 3a	331.100	928.800	385	1080	40,13	112,58	14,72	41,28	1,1	3N 400
ECO 45 G C 3b	331.100	1.075.000	385	1250	40,13	130,30	14,72	47,78	1,5	3N 400
ECO 50 G C 3	215.000	1.290.000	250	1500	26,06	156,36	9,56	57,33	2,2	3N 400
ECO 55 G C 3	258.000	1.720.000	300	2000	31,27	208,48	11,47	76,44	3	3N 400
ECO 55 G C 3a	258.000	2.150.000	300	2500	31,27	260,61	11,47	95,56	3	3N 400
ECO 60 G C 3	369.800	2.580.000	430	3000	44,82	312,73	16,44	114,67	4	3N 400
ECO 65 G C 3	430.000	3.010.000	500	3500	52,12	364,85	19,11	133,78	5,5	3N 400
ECO 70 G C 3	498.800	3.500.200	580	4070	60,46	424,27	22,17	155,56	7,5	3N 400
ECO 75 G C 3	686.280	4.800.000	798	5581	83,19	581,82	30,50	213,33	11,00	3N 400

* Low Calorific Value: LCV Natural Gas : 8250 kcal /Nm³ , LCV LPG : 22500 kcal /Nm³