ecostar
COMBUSTION SYSTEMS

MONOBLOCK BURNERS

www.ecostar.com.en

From 1967 to the Future...

The company «Termo Is Sistemleri Ticaret ve Sanayi A..» (AK «Termo Is Sistemleri Ticaret ve Sanayi») It was established in 1967 in Istanbul and today is one of the leading companies in the thermal energy industry with the Ecostar and Ecodense brands.

The central office of the Termo Is company is located in Kartal, Istanbul, and production is carried out at the enterprise in Tekirdag/Chorlu with an open area of 50,000 m2 and a covered area of 15,000 m2. A staff of 150 well-equipped employees, a wide dealer network and a network of service centers in the country, as well as partner companies outside the country allow the company to fulfill its customers' orders in the form of products and services that meet global quality standards.

The leading Turkish burner brand Ecostar specializes in two main types of burners, monoblock (household) burners and double-block (industrial) burners. The range of Ecostar burners, which offers the widest range of products with a wide range of capacities in our country, includes burners powered by liquid and gaseous fuels, combined burners and special burners for different types of fuels. As part of our vision focused on environmental protection and energy conversion, we have added a series of low-emission NOx and CO burners to our product line, while continuing to invest in this type of product.

Along with groups of domestic and industrial burners, Ecostar offers services in the form of specialized products designed for all enterprises that need thermal energy, offering them hot air generators, special heat-resistant process burners for industrial furnaces and fluidized bed boilers.

The production of condensing boilers, which began in 2016, was marked by the emergence of the Ecodense brand, which in a relatively short time took its rightful place among the leading industry leaders after acquiring market share. The Ecodense product line includes wall-mounted, floor-standing condensing boilers, roof top series condensing boilers and rgemix condensing boilers.

By manufacturing products that meet the needs for heat and hot water through a wide range of products and our specialist teams, Ecodense is continuously developing new products and expanding its range.
By providing services with a solution-oriented and customer satisfaction-oriented approach, Termo Is performs turnkey projects for the public and private sectors, both in Turkey and abroad, which can meet the various needs of its customers thanks to the company's many years of experience. Our company has equipment that allows turnkey delivery of all mechanical, construction, electrical and automation work, and provides contract services in the form of engineering, design, development, supply, production, installation, testing and commissioning.

Termo Is is steadily strengthening its position in the export sector with the Ecostar brand, which regularly receives awards for «Turkish company with the highest volume of burner exports», and the Ecodense brand, which has demonstrated rapid progress over the past 5 years. Today, our company exports its products to more than 50 countries around the world, from South America to Australia, from Russia to South Africa. We aim to increase the share of our export turnover, which is 35% of the current turnover, to 50% in the near future. We have the capacity to adapt our products to the requirements of international markets. We strive for long-term cooperation with our partners and the continuous development of new partnerships in new countries.

We create environmentally friendly and efficient innovative solutions thanks to the work of the R&D department, which includes about 30 well-equipped employees. Thanks to almost 55 years of firmly rooted history and the pride of a national manufacturer, we confidently continue our activities, both in Turkey and in the export sector, striving to achieve our goals and self-improvement.

ECO HP Burners

SCAN FOR MORE DETAILS

specifications

- Extensive control and operation capabilities for various types of fuel
  The burners support single-stage, modulating and proportional operation with mechanical, pneumatic or electronic control options. They run on natural gas and LPG at pressures of 300 mbar and 21 mbar.
- High gorenje efficiency and environmental friendliness The unique burner head ensures uniform mixing of fuel and air, achieving high efficiency. Environmental safety is guaranteed by low NOx and CO emissions.
- Easy to install and maintain
  Easy access to all components without disassembling the burner thanks to the hinged system and sliding mounting flange. The compact design reduces maintenance requirements.
- Precise flame control and low noise
  Flame control is carried out using ignition and ionization electrodes. The specially designed housing and muffler system minimize the noise level.
- Energy efficiency and minimal pressure loss The built-in fan flap regulates the gorenje air supply, and the housing and the burner head ensure minimal pressure loss.
- Wide range of thermal power
  The burners provide a wide range of heat output control depending on needs, supporting various applications in boilers and production systems.

Technical Details

*** Information:** Manufacturer's choice product for ECO 50 hp GC 1 - ECO 350 HP GC 1 models.

Single-stage gas burners of the HP series

BURNER TYPE	CAPACITY		CAPACITY		NATURAL GAS CONSUMPTION		FAN MOTOR POWER	MAIN SUPPLY	GAS INLET DIAMETER	
	Min. kcal/h	Max. kcal/h	Min. kW	Max. kW	Min. Nm³/h	Max. Nm³/h	kW	VAC	Gas Valve	Gas Inlet Diameter
ECO 50 HP G C1 SV	8.600	43.000	10	50	1	5	0,1	1N 230	ZEVR DN15	1/2"
ECO 100 HP G C1 SV	17.200	86.000	20	100	2	10	0,2	1N 230	ZEVR DN20	3/4"
ECO 200 HP G C1 SV	68.800	172.000	80	200	8	21	0,3	1N 230	ZEVR DN32	1 1/4"
ECO 200 HP G C1 1/2" D	68.800	172.000	80	200	8	21	0,3	1N 230	MB-DLE 405	1/2"
ECO 200 HP G C1 3/4" D									MB-DLE 407	3/4"
ECO 350 HP G C1 3/4" D	77.400	301.000	90	350	9	36	0,3	1N 230	MB-DLE 407	3/4"
ECO 350 HP G C1 1" D									MB-DLE 410	1"
ECO 350 HP G C1 1 1/4" D									MB-DLE 412	1 1/4"

ECO HP BURNERS

Two-stage Gas Burners of the HP Series

SCAN FOR MORE DETAILS

Technical Details

***Information:** The product in the image is valid for the ECO 450 HP GC 2 - ECO 1100 HP GC 2 models. The product model is changing for lower and higher performance.

Two-stage gas burners of the HP series

BRÜLÖR TİPİ	KAPASİTE		KAPASİTE		DOĞALGAZ TÜKETİMİ		FAN MOTOR GÜCÜ	50 Hz te GERİLİM	GAZ GİRİŞ ÇAPI	
	Min. kcal/h	Max. kcal/h	Min. kW	Max. kW	Min. Nm³/h	Max. Nm³/h	kW	VAC	Gaz ventili	Gaz giriş
ECO 200 HP GC 2 1/2" D	68.800	172.000	80	200	8	21	0.2	1N 230	MB-ZRDLE 405	1/2"
ECO 200 HP GC 2 3/4" D									MB-ZRDLE 407	3/4"
ECO 350 HP GC 2 3/4" D	77.400	301.000	90	350	9	36	0.3	1N 230	MB-ZRDLE 407	3/4"
ECO 350 HP GC 2 1" D									MB-ZRDLE 410	1"
ECO 450 HP G C2 3/4" D	129.000	387.000	150	450	15	47	0	1N 230	MB-DLE 407	3/4"
ECO 450 HP G C2 1" D									MB-DLE 410	1"
ECO 450 HP G C2 1 1/4" D									MB-DLE 412	1 1/4"
ECO 700 HP GC 2 1 1/4" D	216.000	602.000	250	700	26	73	0,75	3N 400	MB-ZRDLE 412	1 1/4"
ECO 700 HP GC 2 1 1/2" D									MB-ZRDLE 415	1 1/2"
ECO 1100 HP GC 2 1 1/4" D	216.000	946.000	250	1100	26	116	1,5	3N 400	MB-ZRDLE 412	1 1/4"
ECO 1100 HP GC 2 1 1/2" D									MB-ZRDLE 415	1 1/2"
ECO 1100 HP GC 2 2" D									MB-ZRDLE 420	2"
ECO 1100 HP GC 2 1 1/2" -S									VGD 20.4011	1 1/2"
ECO 1100 HP GC 2 2" -S									VGD 20.5011	2"
ECO 1500 HP GC 2 1 1/2" -S	258.000	1.290.000	300	1.500	31	156	1,5	3N 400	VGD 20.4011	1 1/2"
ECO 1500 HP GC 2 2" -S									VGD 20.5011	2"
ECO 2000 HP GC 2 1 1/2" -S	473.000	1.720.000	550	2.000	57	208	3	3N 400	VGD 20.4011	1 1/2"
ECO 2000 HP GC 2 2" -S									VGD 20.5011	2"
ECO 2000 HP GC 2 DN65									VGD 40.065	DN65
ECO 3000 HP GC 2 1 1/2" -S	516.000	2.580.000	600	3.000	63	313	4	3N 400	VGD 20.4011	1 1/2"
ECO 3000 HP GC 2 2" -S									VGD 20.5011	2"
ECO 3000 HP GC 2 DN65									VGD 40.065	DN65
ECO 3000 HP GC 2 DN80									VGD 40.080	DN80
ECO 4500 HP GC 2 1 1/2" -S	645.000	3.440.000	750	4.000	78	417	7,5	3N 400	VGD 20.4011	1 1/2"
ECO 4500 HP GC 2 2" -S									VGD 20.5011	2"
ECO 4500 HP GC 2 DN65									VGD 40.065	DN65
ECO 4500 HP GC 2 DN80									VGD 40.080	DN80
ECO 4500 HP GC 2 DN100									VGD 40.0100	DN100
ECO 4500 HP GC 2 DN125									VGD 40.125	DN125

HP Series Pneumatic Proportional Gas Burners

SCAN FOR MORE DETAILS

Technical Details

*** Information:** The product in the image is valid for ECO 1500 HP GC 3 - ECO 2000 HP GC 3 models. The product model is being changed for lower and higher performance.

HP Series Pneumatic Modulating Gas Burners

BURNER TYPE	CAPACITY		CAPACITY		NATURAL GAS CONSUMPTIO		FAN MOTOR POWER	MAIN SUPPLY	GAS INLET DIAMETER	
	Min. kcal/h	Max. kcal/h	Min. kW	Max. kW	Min. Nm³/h	Max. Nm³/h	kW	VAC	Gas Valve	Gas Inlet Diameter
ECO 200 HP G C3M 1/2" D	68.800	172.000	80	200	8	21	0,2	1N 230	MB-DLE 405	1/2"
ECO 200 HP G C3M 3/4" D									MB-DLE 407	3/4"
ECO 350 HP G C3M 3/4" D	77.400	301.000	90	350	9	36	0,3	1N 230	MB-DLE 407	3/4"
ECO 350 HP G C3M 1" D									MB-DLE 410	1"
ECO 350 HP G C3M 1 1/4" D									MB-DLE 412	1 1/4"
ECO 450 HP G C3M 3/4" D	129.000	387.000	150	450	16	47	0,37	1N 230	MB-DLE 407	3/4"
ECO 450 HP G C3M 1" D									MB-DLE 410	1"
ECO 450 HP G C3M 1 1/4" D									MB-DLE 412	1 1/4"
ECO 700 HP G C3M 1 1/4" D	215.000	602.000	250	700	26	73	0,75	3N 400	MB-DLE 412	1 1/4"
ECO 700 HP G C3M 1 1/2" D									MB-DLE 415	1 1/2"

ECO HP BURNERS

Gas Electronic Modulating Burners of the HP Series

SCAN FOR MORE DETAILS

Technical Details

*** Information:** The product in the image is valid for ECO 7000 HP GC 3 - ECO 24000 HP GC 3 models.

HP Series Electronic Modulating Gas Burners

BURNER TYPE	CAPACITY		CAPACITY		NATURAL GAS CONSUMPTION		FAN MOTOR POWER	MAIN SUPPLY	GAS INLET DIAMETER		BODY SIZE
	Min. kcal/h	Max. kcal/h	Min. kW	Max. kW	Min. Nm³/h	Max. Nm³/h	kW	VAC	Gas valve	Gas Inlet Diameter	
ECO 7000 HP GC 3	602.000	6.020.000	700	7.000	72,97	729,70	11	3N 400	VGD 40.065	DN65	ECO 8
									VGD 40.080	DN80	
									VGD 40.100	DN100	
									VGD 40.125	DN125	
ECO 8000 HP GC 3	688.000	6.880.000	800	8.000	83,39	833,94	15	3N 400	VGD 40.065	DN65	
									VGD 40.080	DN80	
									VGD 40.100	DN100	
									VGD 40.125	DN125	
ECO 9000 HP GC 3	516.000	7.740.000	600	9.000	62,55	938,18	18,5	3N 400	VGD 40.065	DN65	ECO 9
									VGD 40.080	DN80	
									VGD 40.100	DN100	
									VGD 40.125	DN125	
ECO 11000 HP GC 3	774.000	9.460.000	900	11.000	93,82	1146,67	22	3N 400	VGD 40.065	DN65	
									VGD 40.080	DN80	
									VGD 40.100	DN100	
									VGD 40.125	DN125	
ECO 13000 HP GC 3	1.548.000	11.180.000	1.800	13.000	188	1.355	37	3N 400	VGD 40.065	DN65	ECO 10
									VGD 40.080	DN80	
									VGD 40.100	DN100	
									VGD 40.125	DN125	
ECO 16000 HP GC 3	774.000	13.760.000	900	16.000	93,82	1667,88	37	3N 400	VGD 40.080	DN80	ECO 11
									VGD 40.100	DN100	
									VGD 40.125	DN125	
									VGD 40.150	DN150	
ECO 17000 HP GC 3	1.548.000	14.620.000	1.800	17.000	188	1.772	55	3N 400	VGD 40.080	DN80	
									VGD 40.100	DN100	
									VGD 40.125	DN125	
									VGD 40.150	DN150	
ECO 23000 HP GC 3	774.000	19.780.000	900	23.000	94	2.398	45	3N 400	VGD 40.080	DN80	ECO 12
									VGD 40.100	DN100	
									VGD 40.125	DN125	
ECO 24000 HP GC 3	1.548.000	20.640.000	1.800	24.000	188	2.502	75	3N 400	VGD 40.100	DN100	
									VGD 40.125	DN125	
									VGD 40.150	DN150	

* Net calorific value : H Natural Gas : 8250 kcal /Nm³ , H LPG : 22500 kcal /Nm³

HP Series Mechanical Proportional Gas Burners

SCAN FOR MORE DETAILS

Technical Details

*** Information:** The product in the image is valid for ECO 450 HP GC 3 models. The product model is being changed for lower and higher performance.

HP Series Mechanical Modulating Gas Burners

BURNER TYPE	CAPACITY		CAPACITY		NATURAL GAS CONSUMPTION		FAN MOTOR POWER	MAIN SUPPLY	GAS INLET DIAMETER	
	Min. kcal/h	Max. kcal/h	Min. kW	Max. kW	Min. Nm³/h	Max. Nm³/h	kW	VAC	Gas Valve	Gas Inlet Diameter
ECO 1500 HP G C3P 1 1/2" -S	301.000	1.290.000	350	1.500	36	156	1.5	3N 400	VGD 20.4011	1 1/2"
ECO 1500 HP G C3P 2" -S									VGD 20.5011	2"
ECO 2000 HP G C3P 1 1/2" -S	473.000	1.720.000	550	2.000	57	208	3	3N 400	VGD 20.4011	1 1/2"
ECO 2000 HP G C3P 2" -S									VGD 20.5011	2"
ECO 2000 HP G C3P DN65									VGD 40.065	DN65
ECO 3000 HP G C3P 1 1/2" -S	516.000	2.580.000	600	3.000	63	313	4	3N 400	VGD 20.4011	1 1/2"
ECO 3000 HP G C3P 2" -S									VGD 20.5011	2"
ECO 3000 HP G C3P DN65									VGD 40.065	DN65
ECO 3000 HP G C3P DN80									VGD 40.080	DN80
ECO 4500 HP G C3P 1 1/2" -S	645.000	3.440.000	750	4.000	78	417	7.5	3N 400	VGD 20.4011	1 1/2"
ECO 4500 HP G C3P 2" -S									VGD 20.5011	2"
ECO 4500 HP G C3P DN65									VGD 40.065	DN65
ECO 4500 HP G C3P DN80									VGD 40.080	DN80
ECO 4500 HP G C3P DN100									VGD 40.100	DN100
ECO 4500 HP G C3P DN125									VGD 40.125	DN125

SCAN FOR MORE DETAILS

Gas Burners

ХАРАКТЕРИСТИКИ

- Single-stage, two-stage, and modulation operation The burners support various modes of operation: single-stage, two-stage, and modulation, including mechanical, pneumatic, or electronic modulation control.
- Easy maintenance and minimal operating requirements
  The compact design, sliding mounting flange and easy access to all components make it easy to maintain the burner without removing it from the boiler.
- Compatible with natural gas and LPG at various pressures
  The burners can run on natural gas and liquefied petroleum gas (LPG) at a gas pressure of 300 mbar or 21 mbar (depending on the model).
- The optimal mixture of fuel and air for efficient gorenje
  A special burner head ensures an optimal mixture of fuel and air, which contributes to high gorenje efficiency. The air supply is regulated by an integrated flap and a pressostat.
- Environmental cleanliness and low NOx and CO emissions
  The burners are designed to meet environmental standards and have low NOx and CO emissions, which makes them safe for the environment.
- Low noise due to the lightweight aluminum housing
  The lightweight aluminum alloy housing minimizes noise and friction, ensuring silent operation of the burner.

Technical Details

One-stage gas burners

SCAN FOR MORE DETAILS

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 230
ECO 1 G C 1a	17.200	86.000	20	100	2,1	10,4	0,8	3,8	0,11	1N 230
ECO 2 G C 1	51.600	172.000	60	200	6,3	20,8	2,3	7,6	0,15	1N 230
ECO 2 G C 1a	86.000	299.260	100	348	10,4	36,3	3,8	13,3	0,15	1N 230

* Low Calorific Value: LCV Natural Gas : 8250 kcal /Nm³ , LCV LPG : 22500 kcal /Nm³ , LCV BIOGAS : 485(kcal/Nm³

SCAN FOR MORE DETAILS

Двухступенчатые газовые горелки

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 230
ECO 2 G C 2 a	86.000	299.280	100	348	10,42	36,28	3,82	13,30	0,15	1N 230
ECO 30 G C 2	163.400	387.000	190	450	19,81	46,91	7,26	17,20	0,37	1N 230
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	369.600	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	498.600	3.500.200	580	4070	60,46	424,27	22,17	155,56	7,5	3N 400

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

SCAN FOR MORE DETAILS

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 230
ECO 2 G C 3 a	86.000	299.280	100	348	10,42	36,28	3,82	13,30	0,15	1N 230
ECO 30 G C 3	163.400	387.000	190	450	19,81	46,91	7,26	17,20	0,37	1N 230
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	369.600	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	498.600	3.500.200	580	4070	60,46	424,27	22,17	155,56	7,5	3N 400
ECO 75 G C 3	686.200	4.600.000	798	5561	83,19	581,62	30,50	213,33	11,00	3N 400

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

Fuel-Oil Burners

SCAN FOR MORE DETAILS

specifications

- Single-stage, two-stage and modulating operation The burners support single-stage, two-stage and modulating operation with the possibility of mechanical or electronic modulating control.
- Low noise operation with minimal losses The lightweight aerodynamic aluminium alloy housing reduces noise levels by minimising friction losses in the combustion head and housing.
- Optimum mixing of air and fuel with high efficiency
  The special combustion head ensures optimum mixing of air and fuel, while the integrated fan damper and pressostat control the air supply for efficient combustion.
- Mechanical atomisation and safety
  The high pressure in the nozzle ensures quality mechanical atomisation of the fuel. The burners are equipped with safety, operating and limiting thermostats complying with EN 267.
- Easy installation and maintenance
  The compact design, sliding mounting flange and easy access to all components without having to dismantle the burner simplify installation and maintenance.
- Ignition and preheating options The burners support direct and pilot ignition, while the compact preheater ensures stable operation in a variety of conditions.

Technical Details

SCAN FOR MORE DETAILS

Single-Stage Oil Burners

BURNER TYPE	CAPACITY		CAPACITY		HEAVY OIL CONSUMPTION		FAN MOTOR POWER	OIL PUMP POWER	OIL HEATER	MAIN SUPPLY
	Min. kcal/h	Max. kcal/h	Min. kW	Max. kW	Min. kg/h	Max. kg/h	kW	kW	kW	VAC
ECO 2 O (S) C 1	38.600	144.750	45	168	4	15	0,37	-	1,5	3N 400
ECO 2 O (S) C 1a	96.500	250.900	112	292	10	26	0,37	-	1,5	3N 400
ECO 30 O (S) C 1	106.150	337.750	123	393	11	35	0,37	-	3	3N 400
ECO 30 O (S) C 1a	115.800	434.250	135	505	12	45	0,37	-	3	3N 400
ECO 45 O (S) C 1	173.700	482.500	202	561	18	50	1,10	-	3	3N 400

Net kalorifik değer H Fuel-oil: 9650 kcal/kg

SCAN FOR MORE DETAILS

Two-stage oil burners

ТИП ГОРЕЛКИ	ПРОИЗВОДИТЕЛЬНОСТЬ		ПРОИЗВОДИТЕЛЬНОСТЬ		РАСХОД МАЗУТА		МОЩНОСТЬ ДВИГАТЕЛЯ ВЕНТИЛЯТОРА	МОЩНОСТЬ ТОПЛИВНОГО НАСОСА	СИСТЕМА ПОДОГРЕВА ТОПЛИВА	НАПРЯЖЕНИЕ при 50 Гц
	мин. ккал/ч	макс. ккал/ч	мин. кВт	макс. кВт	мин. кг/ч	макс. кг/ч	кВт	кВт	кВт	VAC
ECO 30 O (S) C 2	96.500	386.000	112	449	10	40	0,37	-	3	3N 400
ECO 30 O (S) C 2a	96.500	627.250	112	729	10	65	0,75	-	3	3N 400
ECO 45 O (S) C 2	173.700	646.550	202	752	18	67	1,1	-	3	3N 400
ECO 45 O (S) C 2a	212.300	849.200	247	990	22	88	1,1	-	6	3N 400
ECO 45 O (S) C 2b	212.300	1.013.250	247	1180	22	105	1,5	-	6	3N 400
ECO 50 O (S) C 2	337.750	1.351.000	393	1571	35	140	2,2	-	6	3N 400
ECO 55 O (S) C 2	386.000	1.737.000	449	2020	40	180	3	-	12	3N 400
ECO 55 O (S) C 2a	386.000	2.123.000	449	2469	40	220	3	-	12	3N 400
ECO 60 O (S) C 2	598.300	2.576.550	696	3000	62	267	4	0,75	14	3N 400
ECO 65 O (S) C 2	733.400	3.010.800	853	3500	76	312	5,5	0,75	14	3N 400
ECO 70 O (S) C 2	916.750	3.502.950	1066	4070	95	363	7,5	0,75	2 x 9	3N 400
Чистая теплота сгорания H мазута: 9650 kcal/kg										

SCAN FOR MORE DETAILS

Modulating oil burners

BURNER TYPE	CAPACITY		CAPACITY		HEAVY OIL CONSUMPTION		FAN MOTOR POWER	OIL PUMP POWER	OIL HEATER	MAIN SUPPLY
	Min. kcal/h	Max. kcal/h	Min. kW	Max. kW	Min. kg/h	Max. kg/h	kW	kW	kW	VAC
ECO 45 O (S) C 3b	212.300	1.013.250	247	1180	22	105	1,5	-	6	3N 400
ECO 50 O (S) C 3	337.750	1.351.000	393	1571	35	140	2,2	-	6	3N 400
ECO 55 O (S) C 3	386.000	1.737.000	449	2020	40	180	3	-	12	3N 400
ECO 55 O (S) C 3a	386.000	2.123.000	449	2469	40	220	3	-	12	3N 400
ECO 60 O (S) C 3	598.300	2.576.550	696	3000	62	267	4	1,1	14	3N 400
ECO 75 O (S) C 3	1.003.600	4.825.000	1167	5610	104	500	11	1,5	2 x 14	3N 400

Diesel Burners

SCAN FOR MORE DETAILS

specifications

- Operating modes: single-stage, two-stage and modulating mode
  The burners support single-stage, two-stage and modulating modes of operation. The modulating mode offers mechanical or electronic control for precise power regulation.
- Optimum control of the flame and fuel mixture The flame is controlled by means of an ignition electrode and a photocell. A special combustion head ensures optimal mixing of fuel and air for maximum efficiency.
- Efficient air control The air supply is controlled by an integrated fan damper and a pressostat in the suction line, which contributes to high efficiency and stable operation.
- Lightweight aluminium housing with low noise The aerodynamic housing made of high quality aluminium alloy minimises noise and reduces friction losses in the housing and combustion head.
- Ease of installation and access
  The burners are equipped with a sliding fixing flange, which facilitates installation on different types of boilers. Easy access to all parts is possible without dismantling the burner.
- Compact design and minimal maintenance requirements
  Compact design with mechanical fuel atomisation at high pressure and minimal maintenance requirements make the burners efficient and easy to operate.

Technical Details

SCAN FOR MORE DETAILS

Single-stage diesel burners

BURNER TYPE	CAPACITY		CAPACITY		LIGHT OIL CONSUMPTION		FAN MOTOR POWER	OIL PUMP POWER	MAIN SUPPLY
	Min. kcal/h	Max. kcal/h	Min. kW	Max. kW	Min. kg/h	Max. kg/h	kW	kW	VAC
ECO 1 O (L) C 1	10.200	51.000	12	59	1	5	0,11	-	1N 230
ECO 1 O (L) C 1a	40.800	81.600	47	95	4	8	0,11	-	1N 230
ECO 2 O (L) C 1	81.600	153.000	95	178	8	15	0,37	-	3N 400
ECO 2 O (L) C 1a	96.900	265.200	113	308	10	26	0,37	-	3N 400
ECO 30 O (L) C 1	112.200	346.800	130	403	11	34	0,37	-	3N 400
ECO 30 O (L) C 1a	122.400	510.000	142	593	12	50	0,37	-	3N 400
ECO 45 O (L) C 1	183.600	591.600	213	688	18	58	1,1	-	3N 400
ECO 45 O (L) C 1a	183.600	816.000	213	949	18	80	1,5	-	3N 400
ECO 45 O (L) C 1b	255.000	918.000	297	1067	25	90	1,5	-	3N 400

DIESEL BURNERS

SCAN FOR MORE DETAILS

Two-stage diesel burners

BURNER TYPE	CAPACITY		CAPACITY		LIGHT OIL CONSUMPTION		FAN MOTOR POWER	OIL PUMP POWER	MAIN SUPPLY
	Min. kcal/h	Max. kcal/h	Min. kW	Max. kW	Min. kg/h	Max. kg/h	kW	kW	VAC
ECO 30 O (L) C 2	102.000	408.000	119	474	10	40	0,37	-	3N 400
ECO 30 O (L) C 2a	102.000	663.000	119	771	10	65	0,75	-	3N 400
ECO 45 O (L) C 2	173.400	683.400	200	795	17	67	1,1	-	3N 400
ECO 45 O (L) C 2a	183.600	816.000	213	949	18	80	1,1	-	3N 400
ECO 45 O (L) C 2b	214.200	1.020.000	247	1180	21	100	1,5	-	3N 400
ECO 50 O (L) C 2	336.600	1.346.400	393	1571	33	132	2,2	-	3N 400
ECO 55 O (L) C 2	387.600	1.734.000	449	2020	38	170	3	-	3N 400
ECO 55 O (L) C 2a	387.600	2.121.600	449	2469	38	208	3	-	3N 400
ECO 60 O (L) C 2	601.800	2.580.600	696	3000	59	253	4	0,75	3N 400
ECO 65 O (L) C 2	734.400	3.009.000	853	3500	72	295	5,5	0,75	3N 400
ECO 70 O (L) C 2	918.000	3.498.600	1066	4070	90	343	7,5	0,75	3N 400

SCAN FOR MORE DETAILS

Modulating diesel burners

BURNER TYPE	CAPACITY		CAPACITY		LIGHT OIL CONSUMPTION		FAN MOTOR POWER	OIL PUMP POWER	MAIN SUPPLY
	Min. kcal/h	Max. kcal/h	Min. kW	Max. kW	Min. kg/h	Max. kg/h	kW	kW	VAC
ECO 45 O (L) C 3b	214.200	1.020.000	247	1180	21,00	100,00	1,5	-	3N 400
ECO 50 O (L) C 3	336.600	1.346.400	393	1571	33,00	132,00	2,2	-	3N 400
ECO 55 O (L) C 3	387.600	1.734.000	449	2020	38,00	170,00	3	-	3N 400
ECO 55 O (L) C 3a	387.600	2.121.600	449	2469	38,00	208,00	3	-	3N 400
ECO 60 O (L) C 3	601.800	2.580.600	696	3000	59,00	253,00	4	1,1	3N 400
ECO 65 O (L) C 3	734.400	3.009.000	853	3500	72,00	295,00	5,5	1,5	3N 400
ECO 70 O (L) C 3	918.000	3.498.600	1066	4070	90,00	343,00	7,5	1,5	3N 400
ECO 75 O (L) C 3	1.009.800	4.824.600	1167	5610	99,00	473,00	11	1,5	3N 400

Two-Stage Gas + Heavy Oil Burners

Two-Stage Gas + Heavy Oil Burners

SCAN FOR MORE DETAILS

specifications

- Two-stage and modulating operation on natural gas and liquid fuels The burners support two-stage and modulating operation with mechanical, pneumatic or electronic control for precise heat output control.
- Compact design and easy maintenance
  The burners have a compact design with minimal maintenance requirements and easy access to all components without disassembly.
- Compatible with low gas pressure (21 mbar) In models up to ECO 55 K (S) C 2 and C 3, the burners can be operated at low gas pressure (21 mbar), which extends their range of applications.
- Efficient air control and low noise level The air supply is controlled by an integrated fan damper and pressostat. The lightweight aluminium alloy housing reduces noise and friction losses.
- Optimum control of the flame and fuel mixture Flame control is ensured by the ignition electrode and photocell. The special combustion head allows an optimal mixing of fuel and air for high efficiency.
- Additional safety and preheating
  The burners are equipped with a compact preheater of a special design as well as safety, operating and limiting thermostats for safe operation.

Technical Details

SCAN FOR MORE DETAILS

Two-Stage Gas + Heavy Oil Burners

BURNER TYPE	GAS CAPACITY		GAS CAPACITY		NATURAL GAS CONSUMPTION		HEAVY-OIL CAPACITY		HEAVY OIL CAPACITY		HEAVY OIL CONSUMPTION		FAN MOTOR POWER	OIL PUMP POWER	OIL HEATER	MAIN SUPPLY
	Min. kcal/h	Max. kcal/h	Min. kW	Max. kW	Min. Nm³/h	Max. Nm³/h	Min. kcal/h	Max. kcal/h	Min. kW	Max. kW	Min. kg/h	Max. kg/h	kW	kW	kW	VAC
ECO 45 K S C 2	172.000	645.000	200	750	20,8	78,2	172.000	645.000	200	750	17,92	66,84	0,75	0,37	3	3N 400
ECO 45 K S C 2a	172.000	860.000	200	1000	20,8	104,2	212.420	851.400	247	990	22,01	88,23	1,1	0,37	6	3N 400
ECO 45 K S C 2b	172.000	1.032.000	200	1200	20,8	125,1	212.420	1.054.800	247	1180	22,01	105,16	1,5	0,37	6	3N 400
ECO 50 K S C 2	215.000	1.290.000	250	1500	26,1	156,4	337.750	1.351.000	393	1571	35,00	140,00	2,2	0,75	6	3N 400
ECO 55 K S C 2	258.000	1.720.000	300	2000	31,3	208,5	385.900	1.737.000	449	2020	40,00	180,00	3	0,75	12	3N 400
ECO 55 K S C 2a	258.000	2.150.000	300	2500	31,3	260,6	385.900	2.121.000	449	2469	40,00	220,00	3	0,75	12	3N 400
ECO 60 K S C 2	359.800	2.580.000	418	3000	44,8	312,7	598.550	2.580.000	696	3000	62,03	267,36	4	0,75	14	3N 400
ECO 65 K S C 2	430.000	3.010.000	500	3500	52,1	364,8	733.580	3.010.000	853	3500	76,00	311,92	5,5	0,75	14	3N 400
ECO 70 K S C 2	430.000	3.500.200	500	4070	60,5	424,3	918.750	3.500.200	1066	4070	95,00	362,72	7,5	0,75	2 x 9	3N 400

Two-Stage Gas + Heavy Oil Burners

SCAN FOR MORE DETAILS

Modulating Gas + Heavy Oil Burners

	Min. kcal/h	Max. kcal/h	Min. kW	Max. kW	Min. Nm³/h	Max. Nm³/h	Min. kcal/h	Max. kcal/h	Min. kW	Max. kW	Min. kg/h	Max. kg/h	kW	kW	kW	VAC
ECO 45 K S C 3b	172.000	1.032.000	200	1200	21	125	212.420	1.014.800	247	1180	22,01	105,16	1,5	0,37	6	3N 400
ECO 50 K S C 3	215.000	1.290.000	250	1500	26	156	307.750	1.351.900	383	1571	35,00	140,09	2,2	0,75	6	3N 400
ECO 55 K S C 3	258.000	1.720.000	300	2000	31	208	386.000	1.737.600	449	2020	40,00	180,00	3	1,1	12	3N 400
ECO 55 K S C 3a	258.000	2.150.000	300	2500	31	261	386.000	2.123.800	449	2469	40,00	220,00	3	1,1	12	3N 400
ECO 60 K S C 3	369.800	2.580.000	430	3000	45	313	598.560	2.580.800	696	3000	62,03	267,36	4	1,1	14	3N 400
ECO 65 K S C 3	430.000	3.010.000	500	3500	52	365	733.580	3.010.800	853	3500	76,02	311,92	5,5	1,5	2 x 9	3N 400
ECO 70 K S C 3	498.800	3.500.200	580	4070	60	424	916.760	3.500.200	1066	4070	95,00	362,72	7,5	1,5	2 x 9	3N 400
ECO 75 K S C 3	686.000	4.300.000	798	5581	83	582	1.003.620	4.824.600	1167	5610	104,00	499,96	11	1,5	2 x 14	3N 400

GAS + LIGHT OIL DUAL BURNERS

Gas + Light Oil Dual Burners

SCAN FOR MORE DETAILS

specifications

- Operating modes: single-stage, two-stage and modulating mode
  The burners operate on natural gas and diesel fuel, offering single-stage, two-stage and modulating modes with mechanical, pneumatic or electronic control.
- Mechanical atomisation and operational safety
  The burners are equipped with mechanical atomisation of the fuel under high pressure in the nozzle. In addition, safety, operating and limiting thermostats are provided for safe operation.
- Operating modes: single-stage, two-stage and modulating mode
  The burners operate on natural gas and diesel fuel, offering single-stage, two-stage and modulating modes with mechanical, pneumatic or electronic control.
- Compact design with minimum noise The lightweight aluminium housing reduces noise and friction losses, ensuring stable and quiet burner operation with minimal maintenance requirements.
- The special burner head ensures optimum mixing of fuel and air. The combustion air is controlled by an integrated fan damper and pressostat.
- Easy installation and maintenance
  The sliding fixing flange and easy access to all parts allow the burner to be easily installed and serviced without having to remove it from the boiler.

Technical Details

SCAN FOR MORE DETAILS

One-Stage Gas + Light Oil Dual Burners

BURNER TYPE	GAS CAPACITY		GAS CAPACITY		NATURAL GAS CONSUMPTION		LIGHT OIL CAPACITY		LIGHT OIL CAPACITY		LIGHT OIL CONSUMPTION		FAN MOTOR POWER	OIL PUMP POWER	MAIN SUPPLY
	Min. kcal/h	Max. kcal/h	Min. kW	Max. kW	Min. Nm³/h	Max. Nm³/h	Min. kcal/h	Max. kcal/h	Min. kW	Max. kW	Min. kg/h	Max. kg/h	kW	kW	VAC
ECO 2 K L C 1	51.600	172.000	60	200	6,3	20,8	77.400	144.480	90	168	7,6	14,2	0,15	0,15	1N 240
ECO 2 K L C 1 a	86.000	299.280	100	348	10,4	36,3	96.320	251.120	112	292	9,4	24,6	0,15	0,15	1N 240

SCAN FOR MORE DETAILS

Two-Stage Gas + Light Oil Dual Burners

BURNER TYPE	GAS CAPACITY		GAS CAPACITY		NATURAL GAS CONSUMPTION		LIGHT OIL CAPACITY		LIGHT OIL CAPACITY		LIGHT OIL CONSUMPTION		FAN MOTOR POWER	OIL PUMP POWER	MAIN SUPPLY
	Min. kcal/h	Max. kcal/h	Min. kW	Max. kW	Min. Nm³/h	Max. Nm³/h	Min. kcal/h	Max. kcal/h	Min. kW	Max. kW	Min. kg/h	Max. kg/h	kW	kW	VAC
ECO 45 K L C 2	172.000	645.000	200	750	20,85	78,18	172.000	645.000	200	750	16,86	63,24	0,75	0,37	3N 400
ECO 45 K L C 2a	172.000	860.000	200	1000	20,85	104,24	212.420	851.400	247	990	20,83	83,47	1,1	0,37	3N 400
ECO 45 K L C 2b	172.000	1.032.000	200	1200	20,85	125,09	212.420	1.014.800	247	1180	20,83	99,49	1,5	0,37	3N 400
ECO 50 K L C 2	215.000	1.290.000	250	1500	26,06	156,36	337.750	1.351.000	393	1571	33,11	132,45	2,2	0,75	3N 400
ECO 55 K L C 2	258.000	1.720.000	300	2000	31,27	208,48	386.000	1.737.000	449	2020	37,84	170,29	3	0,75	3N 400
ECO 55 K L C 2a	258.000	2.150.000	300	2500	31,27	260,61	386.000	2.123.000	449	2469	37,84	208,14	3	0,75	3N 400
ECO 60 K L C 2	369.800	2.580.000	430	3000	44,82	312,73	598.560	2.580.000	696	3000	58,68	252,94	4	0,75	3N 400
ECO 65 K L C 2	430.000	3.010.000	500	3500	52,12	364,85	733.580	3.010.000	853	3500	71,92	295,10	5,5	0,75	3N 400
ECO 70 K L C 2	498.800	3.500.200	580	4070	60,46	424,27	916.760	3.500.200	1066	4070	89,88	343,16	7,5	0,75	3N 400

SCAN FOR MORE DETAILS

Modulating Gas + Light Oil Dual Burners

BURNER TYPE	GAS CAPACITY		GAS CAPACITY		NATURAL GAS CONSUMPTION		LIGHT OIL CAPACITY		LIGHT OIL CAPACITY		LIGHT OIL CONSUMPTION		FAN MOTOR POWER	OIL PUMP POWER	MAIN SUPPLY
	Min. kcal/h	Max. kcal/h	Min. kW	Max. kW	Min. Nm³/h	Max. Nm³/h	Min. kcal/h	Max. kcal/h	Min. kW	Max. kW	Min. kg/h	Max. kg/h	kW	kW	VAC
ECO 45 K L C 3b	172.000	1.032.000	200	1200	20,85	125,09	212.420	1.014.800	247	1180	20,83	99,49	1,5	0,37	3N 400
ECO 50 K L C 3	215.000	1.290.000	250	1500	26,06	156,36	337.750	1.351.000	393	1571	33,11	132,45	2,2	0,75	3N 400
ECO 55 K L C 3	258.000	1.720.000	300	2000	31,27	208,48	386.000	1.737.000	449	2020	37,84	170,29	3	1,1	3N 400
ECO 55 K L C 3a	258.000	2.150.000	300	2500	31,27	260,61	386.000	2.123.000	449	2469	37,84	208,14	3	1,1	3N 400
ECO 60 K L C 3	369.800	2.580.000	430	3000	44,82	312,73	598.560	2.580.000	696	3000	58,68	252,94	4	1,1	3N 400
ECO 65 K L C 3	430.000	3.010.000	500	3500	52,12	364,85	733.580	3.010.000	853	3500	71,92	295,10	5,5	1,5	3N 400
ECO 70 K L C 3	498.800	3.500.200	580	4070	60,46	424,27	916.760	3.500.200	1066	4070	89,88	343,16	7,5	1,5	3N 400
ECO 75 K L C 3	686.000	4.800.000	798	5581	83,15	581,82	1.003.620	4.824.600	1167	5610	98,39	473,00	11	1,5	3N 400
ECO 8 K L C 3	989.000	4.908.000	1.150	5.800	119,88	604,6	1.003.620	4.824.600	1.167	5.610	98,4	473,00	11,00	2,20	3N 400
ECO 8 K L C 3a	989.000	5.762.000	1.150	6.700	119,88	698,4	1.611.640	5.307.920	1.874	6.172	158,0	520,36	15,00	2,20	3N 400
ECO 8 K L C 3b	989.000	6.192.000	1.150	7.200	119,88	750,5	1.765.580	5.790.380	2.053	6.733	173,1	567,68	15,00	2,20	3N 400
ECO 9 K L C 3	2.580.000	9.890.000	3.000	11.500	312,73	1198,8	3.059.880	9.890.000	3.558	11.500	317,1	969,61	22,00	4,00	3N 400

NG series gas burners

SCAN FOR MORE DETAILS

specifications

- Easy maintenance and installation
  The simple hinge hinge system allows maintenance to be carried out without removing the burner from the boiler. The sliding fixing flange simplifies installation on different types of boilers.
- High efficiency and precise combustion control The special combustion head is performance-adjustable and the fuel-air servo motors ensure an optimum fuel-air mixture for high efficiency.
- Additional optimisation and safety
  Integration of the CO/O2 system (trim) for precise combustion optimisation is available as an option. The integrated gas leakage monitoring device increases operational safety.
- Noise reduction and improved performance
  A special silencer reduces noise levels and a high-flow fan ensures stable burner operation. The user-friendly operator panel improves system control.

Technical Details

NG series gas burners

BURNER TYPE	CAPACITY		CAPACITY		NATURAL GAS CONSUMPTION		LPG 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 50 G C 3 NG	215.000	1.290.000	250	1500	26,1	156,4	9,6	57,3	2,2	3N 400
ECO 55 G C 3 NG	258.000	1.720.000	300	2000	31,3	208,5	11,5	76,4	3	3N 400
ECO 55 G C 3a NG	258.000	2.150.000	300	2500	31,3	260,6	11,5	95,6	3	3N 400
ECO 60 G C 3 NG	369.800	2.580.000	430	3000	44,8	312,7	16,4	114,7	4	3N 400
ECO 65 G C 3 NG	430.000	3.010.000	500	3500	52,1	364,8	19,1	133,8	5,5	3N 400
ECO 70 G C 3 NG	498.800	3.500.200	580	4070	60,5	424,3	22,2	155,6	7,5	3N 400
ECO 75 G C 3 NG	686.280	4.800.000	798	5581	83,2	581,8	30,5	213,3	11	3N 400
ECO 8 G C 3 NG	516.000	5.160.000	600	6000	62,5	625,5	22,9	229,3	11	3N 400
ECO 8 G C 3 a NG	602.000	6.020.000	700	7000	73,0	729,7	26,8	267,6	11	3N 400
ECO 8 G C 3 b NG	688.000	6.880.000	800	8000	83,4	833,9	30,6	305,8	15	3N 400
ECO 8,5 G C 3 NG	623.500	6.235.000	750	7250	75,8	755,8	27,7	277,1	18,5	3N 400
ECO 8,5 G C 3 a NG	713.800	7.138.000	800	8300	86,5	865,2	31,7	317,2	22	3N 400
ECO 8,5 G C 3 b NG	817.000	7.955.000	950	9250	99,0	964,2	36,3	353,6	22	3N 400
ECO 9 G C 3 NG	731.000	7.310.000	850	8500	88,6	886,1	32,5	324,9	18,5	3N 400
ECO 9 G C 3 a NG	774.000	7.740.000	900	9000	93,8	938,2	34,4	344,0	22	3N 400
ECO 9 G C 3 b NG	948.000	9.030.000	1100	10500	114,7	1094,5	42,0	401,3	22	3N 400
ECO 9 G C 3 c NG	1.290.000	10.320.000	1500	12000	156,4	1250,9	57,3	458,7	22	3N 400

NG Series Gas Burners

SCAN FOR MORE DETAILS

specifications

- Easy installation and maintenance The simple hinge hinge system allows maintenance to be carried out without having to remove the burner from the boiler, while the sliding fixing flange simplifies installation on different types of boilers.
- Reduced noise and improved safety The special silencer reduces noise levels and the split mount minimises cable connection errors. Integrated controls ensure safe operation.
- High performance and combustion optimisation The combustion head is adjustable for performance and the fuel-air servo motors ensure precise mixing of fuel and air for maximum efficiency.
- Additional functions for optimisation and control
  Integration of the CO/O2 system (trim) for precise combustion optimisation is available as an option. Air and gas supply is controlled by pressostats and pressure switches for stable operation.

Technical Details

NG Series Heavy Oil Burners

BURNER TYPE	CAPACITY		CAPACITY		HEAVY OIL CONSUMPTION		FAN MOTOR POWER	FUEL PUMP POWER	FUEL HEATER	MAIN SUPPLY
	Min. kcal/h	Max. kcal/h	Min. kW	Max. kW	Min. kg/h	Max. kg/h	kW	kW	kW	VAC
ECO 50 O (S) C 3 NG	337.980	1.351.060	393	1571	35,0	140,0	2,2	-	6,0	3N 400
ECO 55 O (S) C 3 NG	386.140	1.737.200	449	2020	40,0	180,0	3	-	12	3N 400
ECO 55 O (S) C 3a NG	386.140	2.123.340	449	2469	40,0	220,0	3	-	12	3N 400
ECO 60 O (S) C 3 NG	598.560	2.580.000	696	3000	62,0	267,4	4	1,1	14	3N 400
ECO 65 O (S) C 3 NG	733.580	3.010.000	853	3500	76,0	311,9	5,5	1,5	2 x 9,0	3N 400
ECO 70 O (S) C 3 NG	916.760	3.500.200	1066	4070	95,0	362,7	7,5	1,5	2 x 9,0	3N 400
ECO 75 O (S) C 3 NG	1.003.620	4.824.600	1167	5610	104,0	500,0	11	1,5	2 x 14,0	3N 400
ECO 8 O (S) C 3 NG	722.400	5.160.000	840	6000	74,9	534,7	11	2,2	2 x 14,0	3N 400
ECO 8 O (S) C 3 a NG	842.800	6.020.000	980	7000	87,3	623,8	11	2,2	2 x 15,0	3N 400
ECO 8 O (S) C 3 b NG	963.200	6.880.000	1120	8000	99,8	713,0	15	2,2	2 x 15,0	3N 400
ECO 8.5 O (S) C 3 NG	851.400	6.235.000	990	7250	88,2	646,1	18,5	3	37	3N 400
ECO 8.5 O (S) C 3a NG	963.200	6.880.000	1120	8000	99,8	713,0	22	3	37	3N 400
ECO 8.5 O (S) C 3b NG	1.143.800	7.955.000	1330	9250	118,5	824,4	22	3	37	3N 400
ECO 9 O (S) C 3 NG	1.023.400	7.310.000	1190	8500	106,1	757,5	18,5	4	37	3N 400
ECO 9 O (S) C 3a NG	1.083.600	7.740.000	1260	9000	112,3	802,1	22	4	37	3N 400
ECO 9 O (S) C 3b NG	1.324.400	9.030.000	1540	10500	137,2	935,8	22	4	37	3N 400
ECO 9 O (S) C 3c NG	1.806.000	10.320.000	2100	12000	187,2	1069,4	22	4	37	3N 400

NEW GENERATION BURNERS

ecostar COMBUSTION SYSTEMS

NG Series Light Oil Burners

SCAN FOR MORE DETAILS

specifications

- Easy installation and maintenance The simple hinge hinge system allows the burner to be serviced without removing it from the boiler. The sliding fixing flange makes the installation universal for different types of boilers.
- Additional optimisation and safety Integration of the CO/O2 system (trim) for precise combustion optimisation is available as an option. The integrated gas leakage monitoring device increases operational safety.
- High efficiency and precise combustion control The adjustable combustion head and fuel-air servo motors create an optimum mixture of fuel and air, ensuring high efficiency and fine tuning.
- Additional functions for combustion optimisation The integration of the CO/O2 system (trim) is available for precise combustion optimisation. A pressostat ensures stable combustion air control and mechanical atomisation improves fuel atomisation.

Technical Details

NG Series Light Oil Burners

BURNER TYPE	CAPACITY		CAPACITY		LIGHT OIL CONSUMPTION		FUEL PUMP POWER	FUEL HEATER	MAIN SUPPLY
	Min. kcal/h	Max. kcal/h	Min. kW	Max. kW	Min. kg/h	Max. kg/h	kW	kW	VAC
ECO 50 O (L) C 3 NG	337.980	1.351.060	393	1571	33,1	132,5	2,2	-	3N 400
ECO 55 O (L) C 3 NG	386.140	1.737.200	449	2020	37,9	170,3	3	-	3N 400
ECO 55 O (L) C 3a NG	386.140	2.123.340	449	2469	37,9	208,2	3	-	3N 400
ECO 60 O (L) C 3 NG	598.560	2.580.000	696	3000	58,7	252,9	4	1,1	3N 400
ECO 65 O (L) C 3 NG	733.580	3.010.000	853	3500	71,9	295,1	5,5	1,5	3N 400
ECO 70 O (L) C 3 NG	916.760	3.500.200	1066	4070	89,9	343,2	7,5	1,5	3N 400
ECO 75 O (L) C 3 NG	1.003.620	4.824.600	1167	5610	98,4	473,0	11	1,5	3N 400
ECO 8 O (L) C 3 NG	722.400	5.160.000	840	6000	70,8	505,9	11	2,2	3N 400
ECO 8 O (L) C 3a NG	842.800	6.020.000	980	7000	82,6	590,2	11,0	2,2	3N 400
ECO 8 O (L) C 3b NG	963.200	6.880.000	1120	8000	94,4	674,5	15	2,2	3N 400
ECO 8.5 O (L) C 3 NG	851.400	6.235.000	990	7250	83,5	611,3	18,5	2,2	3N 400
ECO 8.5 O (L) C 3a NG	963.200	6.880.000	1120	8000	94,4	674,5	22	2,2	3N 400
ECO 8.5 O (L) C 3b NG	1.143.800	7.955.000	1330	9250	112,1	779,9	22	2,2	3N 400
ECO 9 O (L) C 3 NG	1.023.400	7.310.000	1190	8500	100,3	716,7	18,5	3	3N 400
ECO 9 O (L) C 3a NG	774.860	7.740.000	901	9000	76,0	758,8	22	3	3N 400
ECO 9 O (L) C 3b NG	1.326.120	9.030.000	1542	10500	130,0	885,3	22	3	3N 400
ECO 9 O (L) C 3c NG	1.806.000	10.320.000	2100	12000	177,1	1011,8	22	3	3N 400

NG Series Gas - Heavy Oil Burners

SCAN FOR MORE DETAILS

specifications

- Easy installation and maintenance A simple hinge hinge system allows the burner to be serviced without removing it from the boiler. The sliding fixing flange ensures compatibility with different types of boilers.
- Noise reduction and increased safety The special silencer reduces noise levels and the integrated gas leakage monitoring device ensures safe operation. Split fixing minimises connection errors.
- Combustion optimisation and high efficiency The adjustable combustion head and fuel/air servo motors ensure an optimised fuel/air mixture, achieving high efficiency. The integration of a CO/O2 (trim) system further improves the combustion process.
- Easy operation and flexible operation The user-friendly operator panel and high-flow fan provide easy operation and consistent performance. High pressure mechanical atomisation improves fuel atomisation and pilot ignition is available as an optional feature.

Technical Details

NG Series Gas - Heavy Oil Burners

BURNER TYPE	NATURAL GAS CAPACITY		NATURAL GAS CAPACITY		NATURAL GAS CONSUMPTION		HEAVY OIL CAPACITY		HEAVY OIL CAPACITY		HEAVY OIL CONSUMPTION		FAN MOTOR POWER	FUEL PUMP POWER	FUEL HEATER	MAIN SUPPLY
	Min. kcal/h	Max. kcal/h	Min. kW	Max. kW	Min. Nm³/h	Max. Nm³/h	Min. kcal/h	Max. kcal/h	Min. kW	Max. kW	Min. kg/h	Max. kg/h	kW	kW	kW	VAC
ECO 50 K S C 3 NG	215.000	1.290.000	250	1500	26,1	156,4	337.980	1.351.060	393	1571	35,0	140,0	2,2	-	6	3N 400
ECO 55 K S C 3 NG	258.000	1.720.000	300	2000	31,3	208,5	386.140	1.737.200	449	2020	40,0	180,0	3	-	12	3N 400
ECO 55 K S C 3a NG	258.000	2.150.000	300	2500	31,3	260,6	386.140	2.123.340	449	2469	40,0	220,0	3	-	12	3N 400
ECO 60 K S C 3 NG	369.800	2.580.000	430	3000	44,8	312,7	598.560	2.580.000	696	3000	62,0	267,4	4	1,1	14	3N 400
ECO 65 K S C 3 NG	430.000	3.010.000	500	3500	52,1	364,8	733.580	3.010.000	853	3500	76,0	311,9	5,5	1,5	2 x 9,0	3N 400
ECO 70 K S C 3 NG	498.800	3.500.200	580	4070	60,5	424,3	916.760	3.500.200	1066	4070	95,0	362,7	7,5	1,5	2 x 9,0	3N 400
ECO 70 K S C 3 NG	591.280	4.830.000	788	5561	83,2	581,8	1.003.620	4.824.600	1167	5610	104,0	500,0	11	1,5	2 x 14,0	3N 400
ECO 8 K(S)-C 3 NG	516.000	5.160.000	600	6000	62,5	625,5	722.400	5.160.000	840	6000	74,5	534,7	11	2,2	2 x 14,0	3N 400
ECO 8 K(S) C 3 a NG	602.000	6.020.000	700	7000	73,0	729,7	842.800	6.020.000	980	7000	87,0	623,6	11	2,2	2 x 16,0	3N 400
ECO 8 K(S) C 3 b NG	688.000	6.880.000	800	8000	83,4	833,9	963.200	6.880.000	1120	8000	99,5	713,0	15	2,2	2 x 16,0	3N 400
ECO 8,5 K(S) C 3 NG	645.000	6.235.000	750	7250	78,2	755,8	851.400	6.235.000	990	7250	88,2	646,1	18,5	2,2	2 x 16,0	3N 400
ECO 8,5 K(S) C 3a NG	688.000	7.138.000	800	8300	83,4	865,2	963.200	6.880.000	1120	8000	99,5	713,0	22	2,2	2 x 16,0	3N 400
ECO 8,5 K(S) C 3b NG	817.000	7.955.000	950	9250	99,0	964,2	1.143.800	7.955.000	1330	9250	118,5	824,4	22	2,2	2 x 16,0	3N 400
ECO 9 K(S)-C 3 NG	731.000	7.310.000	850	8500	88,6	886,1	1.023.400	7.310.000	1190	8500	106,1	757,5	18,5	4	37,0	3N 400
ECO 9 K(S) C 3a NG	774.000	7.740.000	900	9000	93,8	938,2	1.083.600	7.740.000	1260	9000	112,3	802,1	22	4	37,0	3N 400
ECO 9 K(S) C 3b NG	946.000	9.030.000	1100	10500	114,7	1094,5	1.324.400	9.030.000	1540	10500	137,2	981,8	22	4	37,0	3N 400
ECO 9 K(S) C 3c NG	1.290.000	10.320.000	1500	12000	156,4	1250,9	1.806.000	10.320.000	2100	12000	187,2	1339,4	22	4	37,0	3N 400

Gas + Light Oil Dual Burners

SCAN FOR MORE DETAILS

specifications

- Serviceability and connection reliability The simple loop attachment system allows the burner to be serviced without removing it from the boiler, while the split fixing minimises cable connection errors.
- Noise reduction and improved diagnostics A special silencer reduces noise levels, creating a comfortable working environment. The user-friendly operator panel makes it easy to diagnose faults and control the burner.
- High combustion efficiency and fine tuning Gas-air servomotors ensure optimal mixing of fuel and air, resulting in high efficiency. Adjustable combustion head and CO/O2 (trim) system (optional) ensure fine-tuning of the combustion processes.
- Safe and stable operation The integrated gas leakage monitoring device and flare ignition lines ensure safe operation. Mechanical fuel atomisation and gas and air pressostats maintain operational stability.

Technical Details

NG Series Gas - Light Oil Burners

ТИП ГОРЕЛКИ	МОЩНОСТЬ НА ПРИРОДНОМ ГАЗЕ		МОЩНОСТЬ НА ПРИРОДНОМ ГАЗЕ		ПОТРЕБЛЕНИЕ ПРИРОДНОГО ГАЗА		МОЩНОСТЬ НА ЛЁГКОМ ТОПЛИВЕ		МОЩНОСТЬ НА ЛЁГКОМ ТОПЛИВЕ		ПОТРЕБЛЕНИЕ ДИЗЕЛЬНОГО ТОПЛИВА		МОЩНОСТЬ ДВИГАТЕЛЯ ВЕНТИЛЯТОРА	МОЩНОСТЬ ТОПЛИВНОГО НАСОСА	НАПРЯЖЕНИЕ ПРИ 50 ГЦ
	Мин. ккал/ч	Макс. ккал/ч	Мин. кВт	Макс. кВт	Мин. Нм³/ч	Макс. Нм³/ч	Мин. ккал/ч	Макс. ккал/ч	Мин. кВт	Макс. кВт	Мин. кг/ч	Макс. кг/ч	кВт	кВт	VAC
ECO 50 K (L) C 5 NG	215.000	1.290.000	250	1500	26,1	156,4	337.980	1.351.060	393	1571	33,1	132,5	2,2	-	3N 400
ECO 55 K (L) C 5 NG	258.000	1.720.000	300	2000	31,3	208,5	386.140	1.737.200	449	2020	37,9	170,3	3	-	3N 400
ECO 55 K (L) C 5 a NG	258.000	2.150.000	300	2500	31,3	260,6	386.140	2.123.340	449	2469	37,9	208,2	3	-	3N 400
ECO 60 K (L) C 5 NG	369.800	2.580.000	430	3000	44,8	312,7	598.560	2.580.000	696	3000	58,7	252,9	4	1,1	3N 400
ECO 65 K (L) C 5 NG	430.000	3.010.000	500	3500	52,1	364,8	733.580	3.010.000	853	3500	71,9	295,1	5,5	1,5	3N 400
ECO 70 K (L) C 3 NG	498.800	3.500.200	580	4070	60,5	424,3	916.760	3.500.200	1066	4070	89,9	343,2	7,5	1,5	3N 400
ECO 75 K (L) C 5 NG	686.280	4.800.000	798	5581	83,2	581,8	1.003.620	4.824.600	1167	5610	98,4	473,0	11	1,5	3N 400
ECO 8 K (L) C 3 NG	516.000	5.160.000	600	6000	62,5	625,5	722.400	5.160.000	840	6000	70,8	505,9	11	2,2	3N 400
ECO 8 K (L) C 3 a NG	602.000	6.020.000	700	7000	73,0	729,7	842.800	6.020.000	980	7000	82,6	590,2	11	2,2	3N 400
ECO 8 K (L) C 3 b NG	688.000	6.880.000	800	8000	83,4	833,9	963.200	6.880.000	1120	8000	94,4	674,5	15	2,2	3N 400
ECO 8,5 K (L) C 3 NG	645.000	6.235.000	750	7250	78,2	755,8	851.400	6.235.000	990	7250	83,5	611,3	18,5	2,2	3N 400
ECO .8,5 K (L) C 3a NG	688.000	7.138.000	800	8300	83,4	865,2	963.200	6.880.000	1120	8000	94,4	674,5	22	2,2	3N 400
ECO 8,5 K (L) C 3b NG	817.000	7.955.000	950	9250	99,0	964,2	1.143.800	9.030.000	1330	10500	112,1	885,3	22	2,2	3N 400
ECO 9 K (L) C 3 NG	731.000	7.310.000	850	8500	88,6	886,1	1.023.400	7.310.000	1190	8500	100,3	716,7	18,5	3	3N 400
ECO 9 K (L) C 3a NG	774.000	7.740.000	900	9000	93,8	938,2	1.083.600	7.740.000	1260	9000	106,2	758,8	22	3	3N 400
ECO 9 K (L) C 3b NG	946.000	9.030.000	1100	10500	114,7	1094,5	1.324.400	9.030.000	1540	10500	129,8	885,3	22	3	3N 400
ECO 9 K (L) C 3c NG	1.290.000	10.320.000	1500	12000	156,4	1250,9	1.806.000	10.320.000	2100	12000	177,1	1011,8	22	3	3N 400

* истая теплотворная способность Н Природный газ: 8250 ккал/нм³ Н Дизельное топливо: 10200 ккал/кг

New generation LowNOx Burners

SCAN FOR MORE DETAILS

specifications

- Efficient and environmentally friendly combustion The LowNOx class 3 gas burner complies with EN 676:2020 and ensures low NOx and CO emissions. The adjustable stainless steel combustion head with turbulator ensures an optimal air-gas mixture.
- Reliability and safety
  The integrated gas leakage monitoring device and the ionisation electrode for flame monitoring ensure a high level of safety. The electronic controller complies with EN 298:2012 and provides error and fault indication.
- Modulation and operational flexibility
  Electronic modulation with a 1:6 ratio and the ability to operate in all types of combustion chambers in accordance with EN 303 ensure a wide range of applications.
- Energy efficiency and ease of maintenance Highly efficient backward curved fan blades reduce energy consumption and noise levels. The loop system allows the combustion head to be removed without dismantling the burner for easy maintenance.

Technical Details

New generation LowNOx Burners

BURNER TYPE	CAPACITY		CAPACITY		NATURAL GAS CONSUMPTION		NOx EMISSIONS	FAN MOTOR POWER	MAIN SUPPLY
	Min. kcal/h	Max. kcal/h	Min. kW	Max. kW	Min. Nm³/h	Max. Nm³/h	Standard mg/kWh	kW	VAC
ECO NG LNX 90 G	154.800	774.000	180	900	18,76	93,82	<80	1,50	3N 400
ECO NG LNX 120 G	215.000	1.032.000	250	1200	26,06	125,09	<80	2,20	3N 400
ECO NG LNX 200 G	404.200	1.720.000	470	2000	48,99	208,48	<80	3,00	3N 400
ECO NG LNX 300 G	369.600	2.580.000	430	3000	44,82	312,73	<80	4,00	3N 400
ECO NG LNX 400 G	498.800	3.440.000	580	4000	60,46	416,97	<80	7,50	3N 400
ECO NG LNX 560 G	686.280	4.799.660	798	5581	83,19	581,78	<80	11,00	3N 400
ECO NG LNX 670 G	989.000	5.762.000	1150	6700	119,88	698,42	<80	15,00	3N 400
ECO NG LNX 720 G	1.032.000	6.192.000	1200	7200	125,09	750,55	<80	15,00	3N 400
ECO NG LNX 1150 G	2.580.000	9.890.000	3000	11500	312,73	1198,79	<80	22,00	3N 400

New generation LowNOx Burners (FGR)

SCAN FOR MORE DETAILS

specifications

- The LowNOx and UltraLowNOx gas burner with flue gas recirculation (FGR) ensures minimum NOx and CO emissions, complying with EN 676:2020. It can operate in any type of combustion chamber, complying with the requirements of EN 303.
- Energy efficiency and low noise The highly efficient backward curved fan blades and cast aluminium housing reduce energy consumption and noise levels. The loop system allows easy removal of the combustion head for maintenance.
- Modulation and precise control
  Electronic modulation with a 1:6 ratio and the ability to precisely control the air and gas supply via an electric servo motor provide flexibility of setting for maximum and minimum output.
- Easy operation and diagnostics
  The user-friendly control panel with status and fault indication, the electronic controller with error codes according to EN 298:2012 and the possibility to connect a microampere meter simplify operation and diagnostics. CO/O2 system integration (trim) is available to optimise combustion.

Technical Details

New generation LowNOx burners (FGR)

BURNER TYPE	CAPACITY		CAPACITY		NATURAL GAS CONSUMPTION		NOx EMISSIONS		FAN MOTOR POWER	MAIN SUPPLY
	Min. kcal/h	Max. kcal/h	Min. kW	Max. kW	Min. Nm³/h	Max. Nm³/h	Standard mg/kWh	FGR mg/kWh	kW	VAC
ECO NG LNX 90 G (FGR)	154.800	774.000	180	900	18,76	93,82	<80	<50	1,50	3N 400
ECO NG LNX 120 G (FGR)	215.000	989.000	250	1150	26,06	119,88	<80	<50	2,20	3N 400
ECO NG LNX 200 G (FGR)	404.200	1.651.200	470	1920	48,99	200,15	<80	<50	3,00	3N 400
ECO NG LNX 300 G (FGR)	378.400	2.580.000	440	3000	45,87	312,73	<80	<50	4,00	3N 400
ECO NG LNX 400 G (FGR)	498.800	3.371.200	580	3920	60,46	408,63	<80	<50	7,50	3N 400
ECO NG LNX 560 G (FGR)	756.200	4.799.660	880	5581	85,48	581,78	<80	<50	11,00	3N 400
ECO NG LNX 670 G (FGR)	989.000	5.710.400	1150	6640	119,88	692,17	<80	<50	15,00	3N 400
ECO NG LNX 720 G (FGR)	1.083.600	6.192.000	1260	7200	131,35	750,55	<80	<50	15,00	3N 400
ECO NG LNX 1150 G (FGR)	2.605.800	9.890.000	3030	11500	315,85	1198,79	<80	<50	22,00	3N 400

Waste oil burners

SCAN FOR MORE DETAILS

specifications

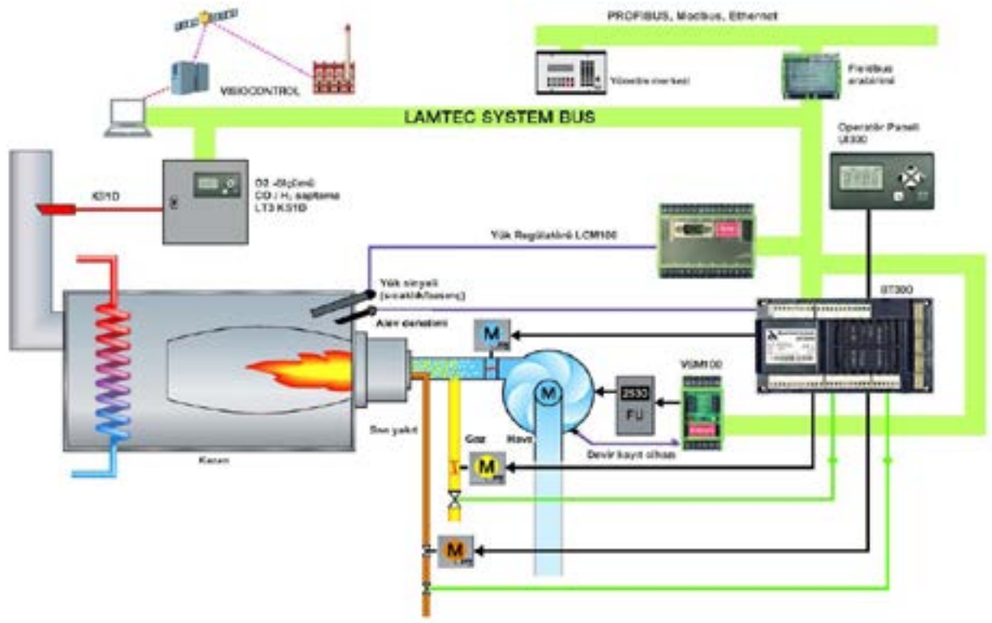
- Flexible operation on different fuel types and efficient ignition The burner operates on diesel and waste oil, supporting two-stage operation and direct ignition. A specially designed 1 kW inbuilt compact fuel heater ensures stable operation.
- Easy installation and maintenance The sliding fixing flange makes it easy to install the burner on different types of boilers. All components can be accessed without removing the burner from the boiler, which simplifies maintenance.
- Combustion optimisation and system reliability The special combustion head ensures optimum mixing of air and fuel, which increases combustion efficiency. The automatic control devices fulfil the EN 267 standard, guaranteeing safety.
- Three-stage fuel level protection is realised by float systems in the tank and overflow tank. The burner is used for hot water boilers, hot air generators and industrial processes.

Technical Details

Waste oil burners

BURNEY TYPE	FUEL CONSUMPTION		CAPACITY		FAN POWER	VOLTAG E 50 Hz	HEATING POWER
	Min. kg/h	Max. kg/h	Min. kW	Max. kW	kW	V	kW
ECO WO-20	2,5	3,9	26,00	38,00	0,11	3N 400	1
ECO WO-55	3,6	5,2	37,00	54,00	0,11	3N 400	1
ECO WO-75	5,4	7,8	56,00	81,00	0,15	3N 400	1
ECO WO-100	7,8	9,6	81,00	100,00	0,15	3N 400	1
ECO WO-150	8,9	14,1	93,00	147,00	0,15	3N 400	1
ECO WO-200	12,7	18	131,00	187,00	0,15	3N 400	1

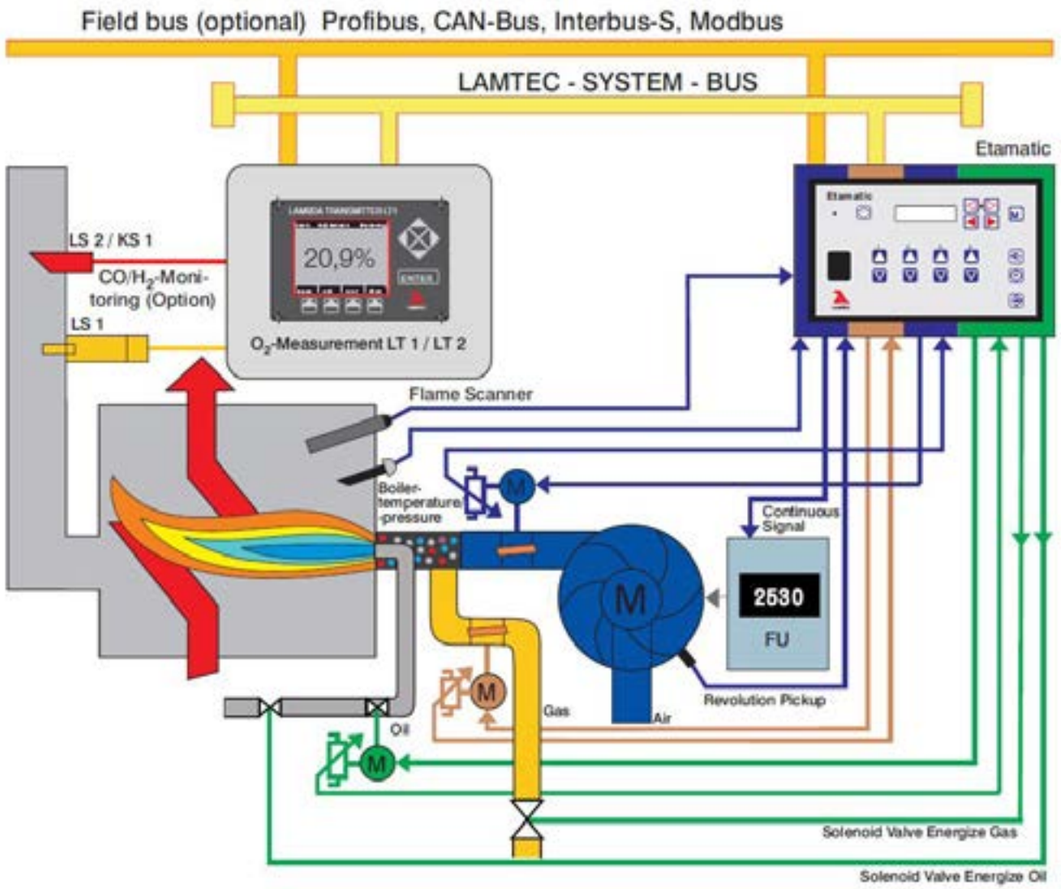
Electronic air/fuel control

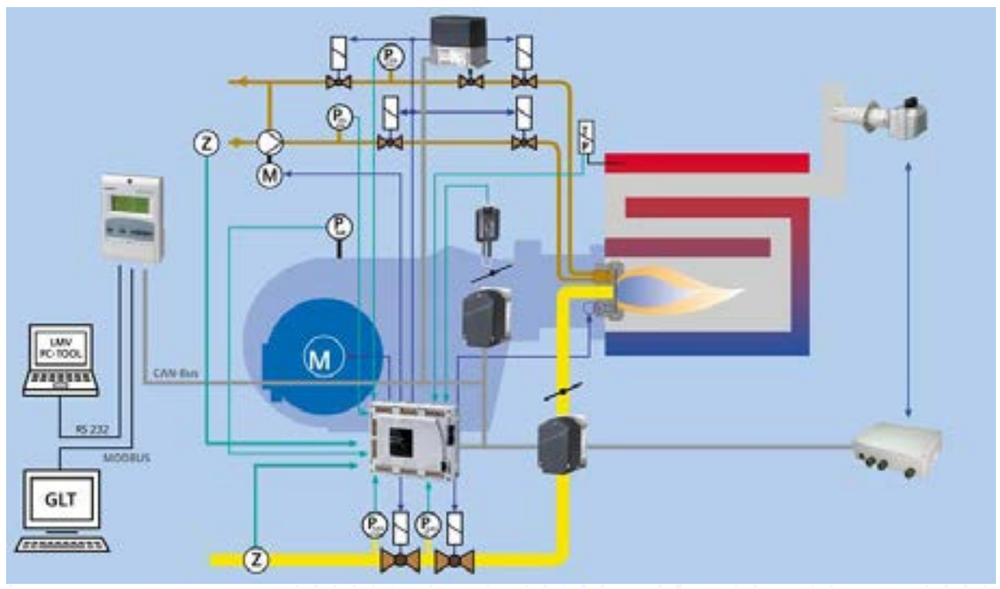


SCAN FOR MORE DETAILS

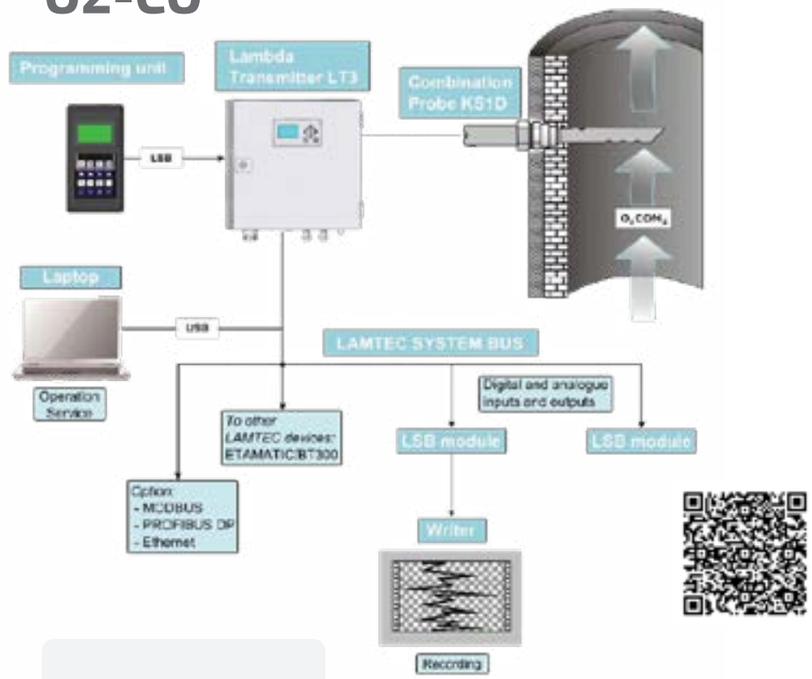
specifications

- Possibility to control up to 3 fuel, air actuators depending on the application,
- Improved gas emission thanks to precise air-fuel tuning,
- Energy Savings,
- Automatic enhancement for combustion problems caused by variable barometric conditions, with the possibility of connecting a CO/O2 sensor,
- Possibility to connect a fan motor inverter,
- Possibility to connect Profibus/Modbus interface,
- Easy setup via user-friendly menus and error history display.





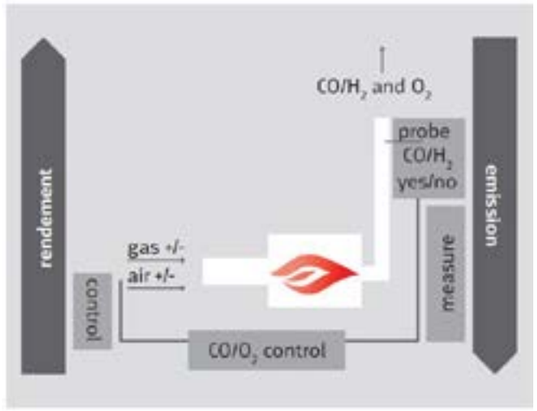
Combustion control system O2-CO



SCAN FOR MORE DETAILS

- The microprocessor-based combustion control system is a complete system that provides the most optimal air/fuel ratio through a closed-loop logic control mechanism with oxygen and/or carbon monoxide control.
- The O2-CO combustion control system endeavours to ensure minimum combustion efficiency with minimum emission values. Transmitters and a flue gas sensor installed on the chimney measure the amount of CO and O2, which allows the combustion to be optimised with respect to the permissible emission parameters according to the required amount of heat energy of the boiler.

- Benefits of O2-CO combustion control;
- Optimised combustion, unaffected by barometric conditions that vary with the season,
- Automatically controlled combustion following the optimised combustion curve under all operating conditions,
- Higher fuel economy with high combustion efficiency.



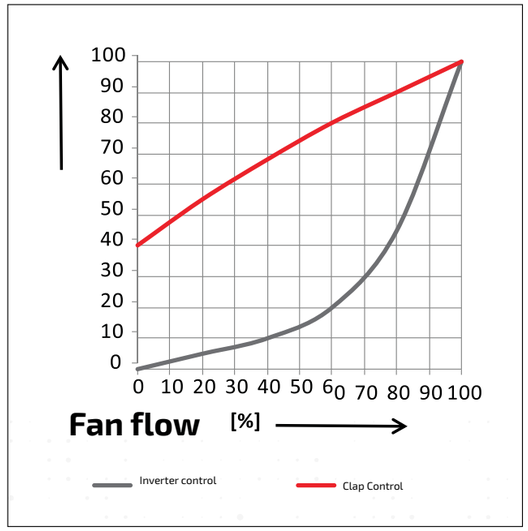
Fan speed control

SCAN FOR MORE DETAILS

specifications

- The inverter installed on the burner fan motor to supply combustion air controls the frequency of the electric power supply to the fan motor, which allows the air to be supplied at the required volume and reduces the cost of electricity consumption. Systems in which frequency control is present have a payback period of several years.
- Advantages of speed control systems;
- Energy savings,
- Extended motor life through controlled acceleration and deceleration,
- Low noise operation.

Back pressure diagram

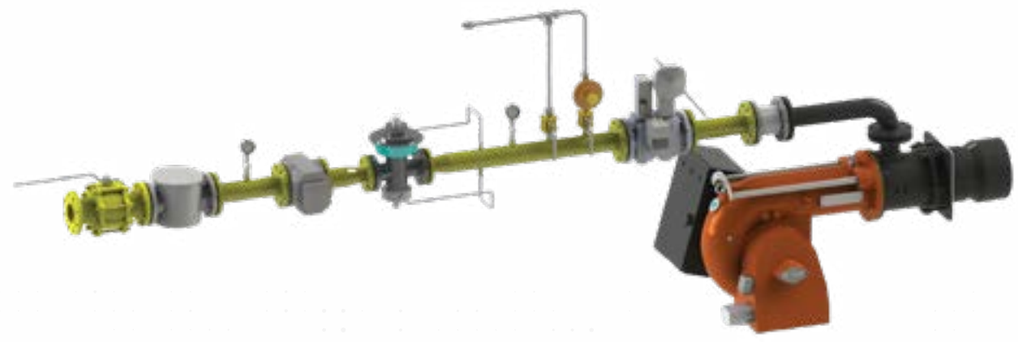


Gas line

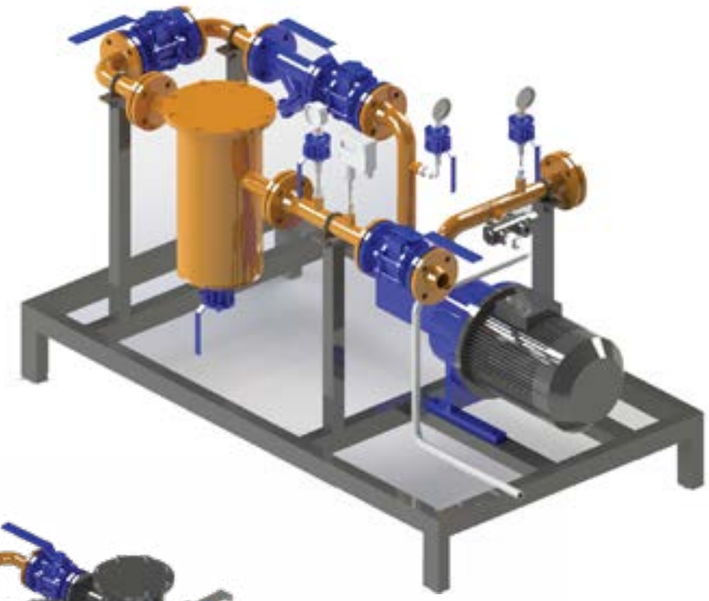
SCAN FOR MORE DETAILS

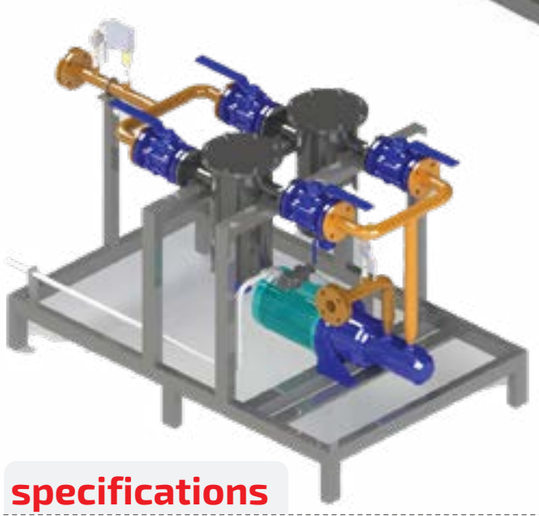
specifications

- The gas supply line is selected according to the operating pressure and burner output, depending on the operating conditions. The gas line is supplied unassembled or assembled with additional accessories such as meter, gas leak detection device.
- Flange and threaded connections may vary depending on capacity and gas pressure.



Diesel fuel station



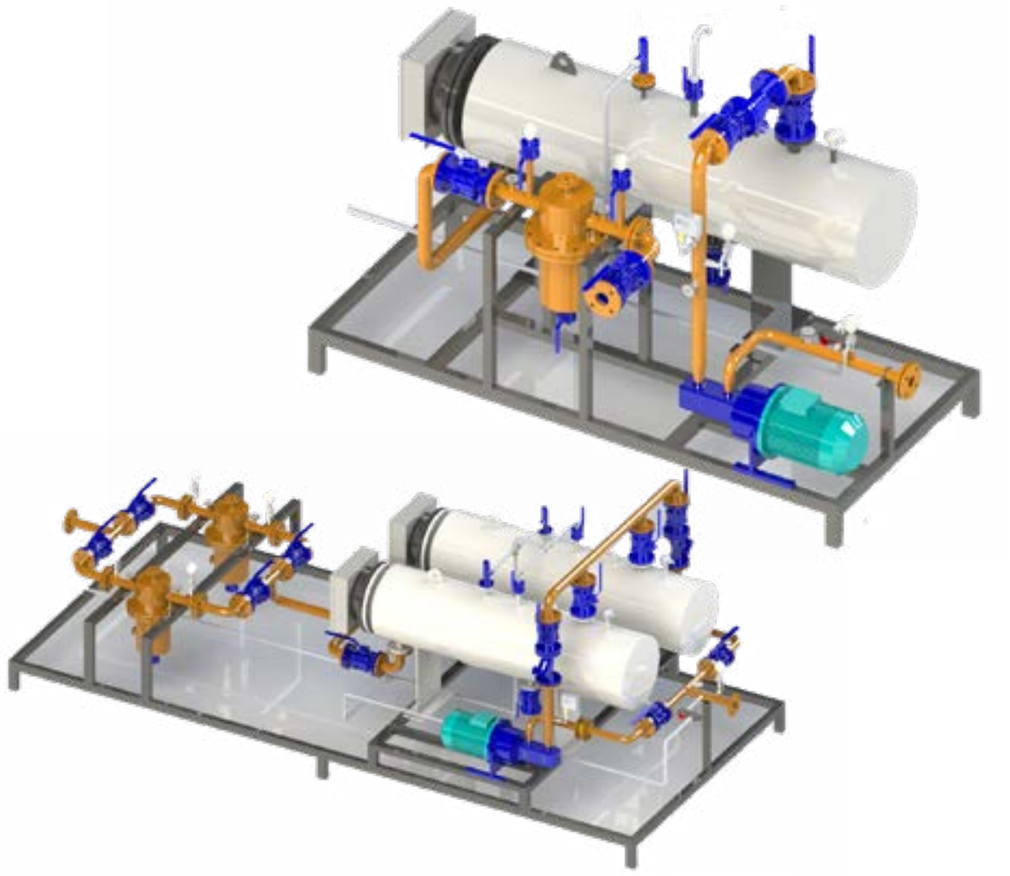


SCAN FOR MORE DETAILS

specifications

- Choose from single systems or systems with redundant filter and pump. The redundant systems offer an advantage in maintenance and operation.
- Please contact our sales department for customised fuel stations according to process requirements.

Fuel oil station



SCAN FOR MORE DETAILS

specifications

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