

(5-1025) kg/h



High Technology

High Performans

HEAVY OIL BURNER

ECOSTAR HEAVY OIL BURNERS

Since 1964, of dynamism and experience of TERMO ISI A.Ş., The company has developed professional combustion systems and components and associated servicing.

Advanced Technology

Over the years we have specialized in the production of burners for high power technical systems developing advanced solutions suited to different technological Heating needs.

Best Combustion Solutions

ECOSTAR Oil Burners, Provides best combustion solutions. Using high technology Burner fans, will help using for an increasingly wider range of applications.





EMMISSION VALUES

Ecostar oil burners, are produced with DIN 4787 and TS-prEN 267, TS-EN 230 standarts so the results is optimum combustion with extremely low emmission.

$\lambda = 1,2 - 1,3$

CO < 125 mg/kWh

NOx < 250 mg/kWh

Unique Design

ECOSTAR Oil Burners designed with latest technology, special light aluminum alloy fan body, creating heating unit which are extremely reliable which offer easy access to every single component an important factor when it comes to repairing, cleaning, checking or servicing the burners.

High Efficiency

Ecostar Oil Burners, using the good quality components, gives the best combustion values for efficiency. Our policy has been directed to the protection of the environment, a philosophy quite a head of its time; The outstanding results we have obtained in connection with the reliability of our products and extremely high full performance levels reached.

NOISE LEVEL

Ecostar oil burners, research and devolopment center designed special air intake system so the burners are working with low noise level, you do not hear anything in the boiler room.



HEATING IS OUR JOB



Oil Valves

We designed the oil valves in such a way that when it's open, it provides the oil to the nozzle sudden entrance and when it's close it stops suddenly, so there will not be any drop of oil.

Thermostats

In order to have best atomisation of oil, best designed thermostats, provides control of oil temperature very precisely.

Air Actuator

High technological kalppe designs allows to move all the air klappe equivally that creates the best consumption in the boiler.



Preheater

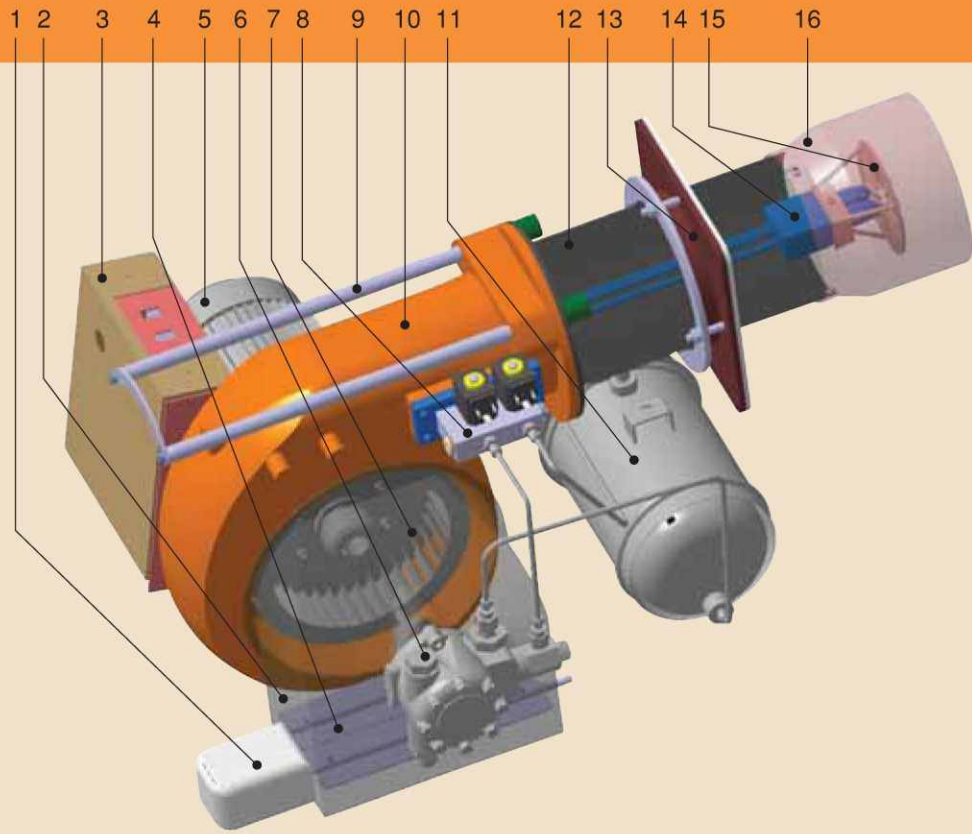
In order to have best combustion electrical preheater heats the heavy oil up to 135°C.

Pump

In order to Atomise the oil, It pressurize the oil up to 18-25 bar. It's controlled by coupling that is connected to the fan motor.

Control Pannel

You can easily detect the trouble by installed indication lamps on the control box.



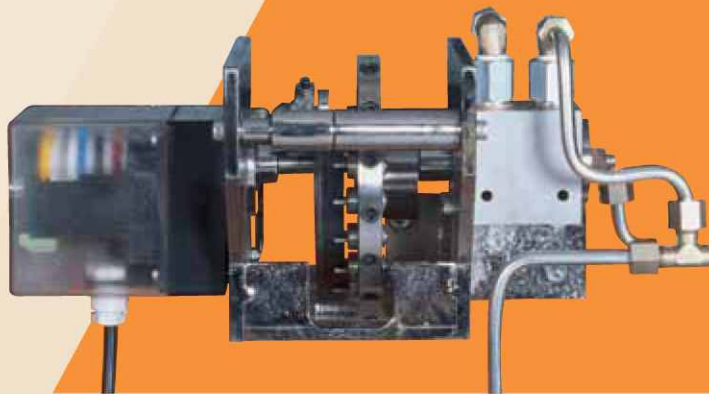
1. SERVOMOTOR / Air actuator
2. HAVA KLAPESİ / Air klappe
3. ELEKTRİK PANOSU / Control panel
4. HAVA KAFESİ / Air intake
5. ELEKTRİK MOTORU / Motor
6. YAKIT POMPASI / Oil pump
7. FAN / Fan
8. YAKIT VALFİ / Oil solenoid valve

9. ASKI MİLİ / Sliding pins
10. GÖVDE / Body
11. POT ISITICI / Preheater
12. ALEV BORUSU / Flame tube
13. KAZAN BAĞLANTI FLANŞI / Boiler flange
14. SIVI YAKIT LANSI / Oil gun
15. TÜRBÜLATÖR / Diffuser
16. ALEV BORUSU UZATMASI / Extension of flame tube

ECOSTAR FUEL OIL

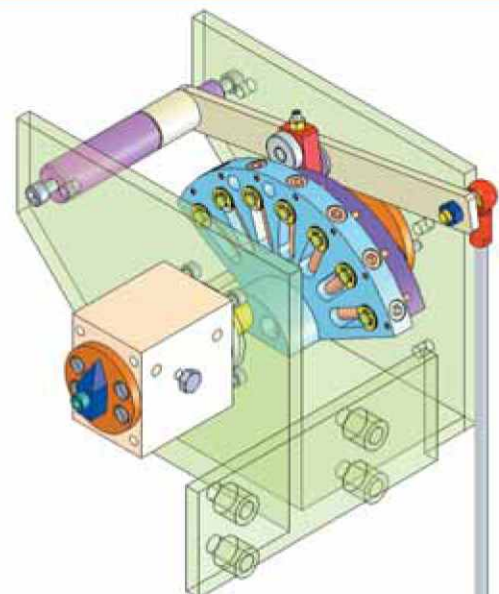
(TYPE DESCRIPTION)

(Company Symbol)	ECO	ECOSTAR
(Model)	2, 4, 45, 5, 60 65, 70, 75, 8, 9	Construction Size
(Fuel Type)	S	Heavy Oil Burner
(Motor Speed)	C	2800 d/d (Rev/Min)
(Stage)	1, 2, 3	1- (One Stage)
		2- (Two Stage)
		3- (Modulating)
(Capacity)	a, b	Capacity Range

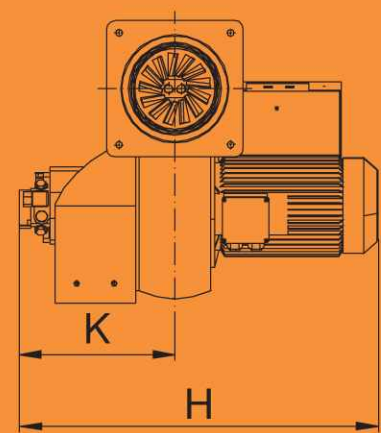
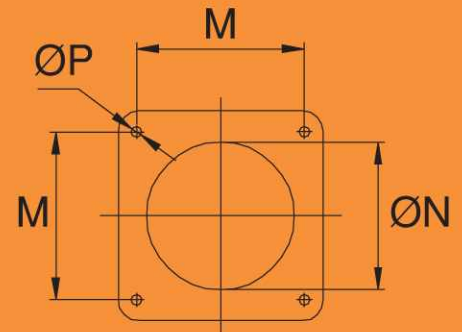
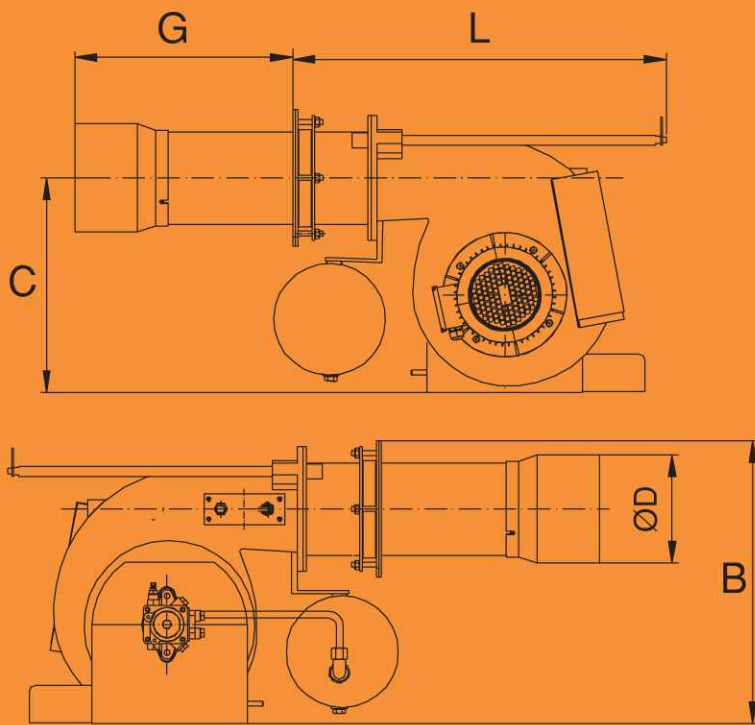


Special designed hydrolik nozzle oil otomisation gun and modulating air and oil adjusting units, provides high turn down ratio for burners. So this gives costumer to have best combustion in min. capacity.

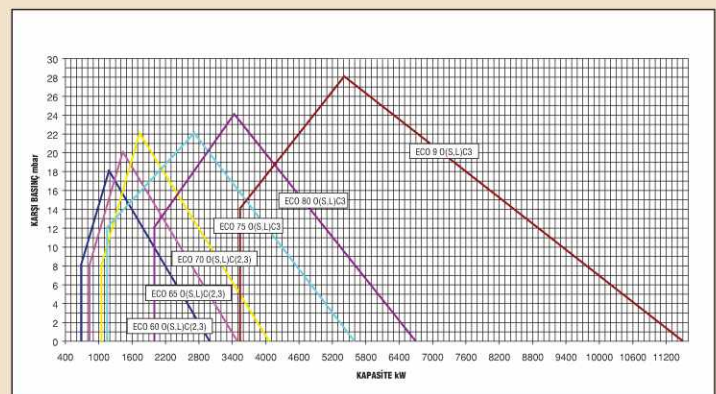
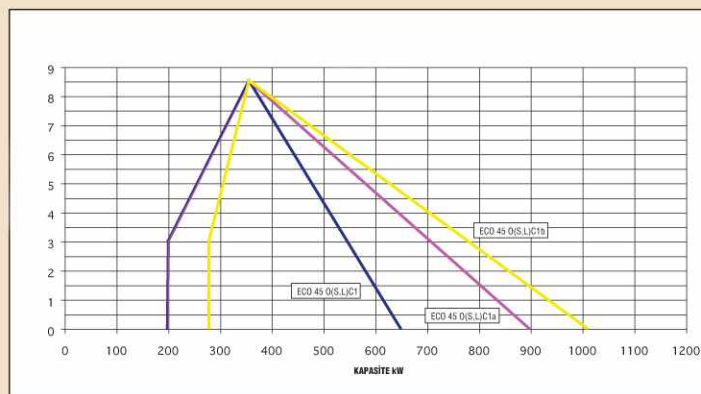
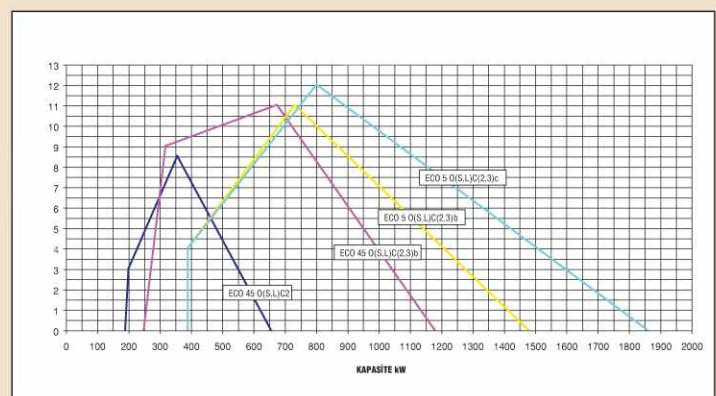
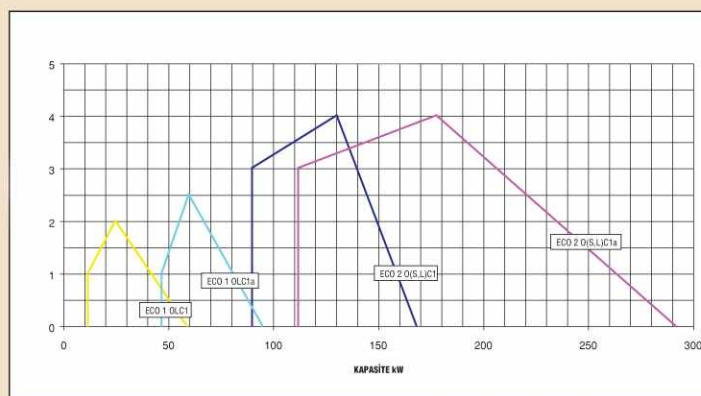
This valve is special designed by ECOSTAR, regulation valve gives best ratio of oil and air by adjusting the returned oil. This will change the capacity of oil in the nozzle. It will prodives best atomisation and combustion values by adjusting air cams and oil valves.



BURNER DIMENSIONS



	L	Gmin	Gmax	H	K	B	C	ØN	ØP	M	ØD
ECO 2 - O (S)	525	106	260	495	210	320	230	120	10	142	134
ECO 45 - O (S)	625	150	350	585	275	455	345	149	11	180	174
ECO 5 - O (S)	830	200	365	630	335	500	355	208	16	230	236
ECO 60 - O (S)	1025	200	275	955	415	670	505	240	18	275	240
ECO 65 - O (S)	1115	200	465	965	425	670	505	250	18	275	280
ECO 70 - O (S)	1115	200	465	965	425	670	505	250	18	275	280
ECO 75 - O (S)	1200	200	375	970	355	720	525	300	22	335	300
ECO 8 - O (S)	1095	305	305	1020	530	900	640	300	23	360	338
ECO 9 - O (S)	1500	350	350	1290	610	1100	826	560	23	630	492



CAPACITY DIAGRAMS

(ONE STAGE HEAVY OIL BURNERS)

BURNER TYPE	CAPACITY				HEAVY OIL CON.		FAN MOTOR POWER	OIL PUMP POWER	MAIN SUPPLY	WEIGHT	OIL HEATER
	KCAL/H		KW		KG/H		KW	kW	V	KG	KW
ECO 2 O (S) C I	77,200	144,750	90	168	8	15	0.37	-	220	30	1 x 1,5
ECO 2 O (S) C I a	96,500	250,900	112	292	10	26	0.37	-	220	30	1 x 1,5
ECO 45 O (S) C I	173,700	559,700	202	651	18	58	1.10	-	220-380	40	1 x 3
ECO 45 O (S) C I a	173,700	772,000	202	898	18	80	1.50	-	220-380	40	1 x 6
ECO 45 O (S) C I b	241,250	868,500	281	1,010	25	90	1.50	-	220-380	40	1 x 6

(TWO STAGE HEAVY OIL BURNERS)

BURNER TYPE	CAPACITY				HEAVY OIL CON.		FAN MOTOR POWER	OIL PUMP POWER	MAIN SUPPLY	WEIGHT	OIL HEATER
	KCAL/H		KW		KG/H		KW	kW	V	KG	KW
ECO 45 O (S) C 2	173,700	559,000	202	650	18	58	1.10	-	220-380	40	1 x 3,0
ECO 45 O (S) C 2b	212,300	1,013,250	247	1,180	22	105	1.50	-	220-380	40	1 x 6,0
ECO 5 O (S) C 2 b	337,750	1,273,800	393	1,480	35	132	2.20	-	220-380	105	1 x 6,0
ECO 5 O (S) C 2 c	337,750	1,601,900	393	1,860	35	166	2.20	-	220-380	105	1 x 6,0
ECO 60 O (S) C 2	598,300	2,576,550	696	3,000	62	267	4.00	1.10	220-380	190	2 x 7,0
ECO 65 O (S) C 2	733,400	3,010,800	853	3,500	76	312	5.50	1.10	220-380	200	2x 7,0
ECO 70 O (S) C 2	916,750	3,502,950	1,066	4,070	95	363	7.50	2.20	220-380	200	2 x 9,0

(THREE STAGE HEAVY OIL BURNERS)

BURNER TYPE	CAPACITY				HEAVY OIL CON.		FAN MOTOR POWER	OIL PUMP POWER	MAIN SUPPLY	WEIGHT	OIL HEATER
	KCAL/H		KW		KG/H		KW	kW	V	KG	KW
ECO 75 O (S) C 3T	1,000,000	4,800,000	1,167	5,600	104	500	11.00	2.20	220-381	270	2 x 14,0

(MODULATING HEAVY OIL BURNERS)

BURNER TYPE	CAPACITY				HEAVY OIL CON.		FAN MOTOR POWER	OIL PUMP POWER	MAIN SUPPLY	WEIGHT	OIL HEATER
	KCAL/H		KW		KG/H		KW	kW	V	KG	KW
ECO 45 O (S) C3 b	212,300	1,013,250	247	1,180	22	105	1.50	-	220-380	40	1 x 6,0
ECO 5 O (S) C 3 b	337,750	1,273,800	393	1,480	35	132	2.20	-	220-380	105	1 x 9,0
ECO 5 O (S) C 3 c	337,750	1,601,900	393	1,860	35	166	2.20	-	220-380	105	1 x 9,0
ECO 60 O (S) C 3	598,300	2,576,550	700	3,000	62	267	4.00	1.10	220-380	190	2 x 7,0
ECO 65 O (S) C 3	733,400	3,010,800	850	3,500	76	312	5.50	1.10	220-380	200	2x 7,0
ECO 70 O (S) C 3	916,750	3,502,950	1,067	4,070	95	363	7.50	2.20	220-380	200	2 x 9,0
ECO 75 O (S) C 3	1,003,600	4,825,000	1,167	5,600	104	500	11.00	2.20	220-380	270	2 x 14,0
ECO 8 O (S) C 3	1,609,920	5,301,900	1,872	6,165	167	550	15.00	3.00	220-380	300+150	2 x 16,0
ECO 8 O (S) C 3a	1,762,140	5,762,000	2,049	6,700	183	600	15.00	3.00	220-380	300+150	2 x 16,0
ECO 9 O (S) C 3	3,059,880	9,890,000	3,558	11,500	317	1,025	22.00	4.00	220-380	500+200	2 x 24,0



Authorised Dealers in India:



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