

Medium and Heavy Oil Burners



Medium and Heavy Oil Burners

The first national design liquid fuel burner producer Alarko's burners are used by thousands of boilers for many years and are exported to abroad. One of the leading burner producer in Turkey, Alarko Carrier, developed new ALF series burners as a result of continuous studies taken 3 years at its re-established Research, Development and Test Laboratory for 2000's.

- * Environment friendly
- * Trouble-free
- * Highly Efficient

ALF series medium and heavy oil burners are developed as high efficient and less harmful for the environment due to the polluting disposals. Alarko medium and heavy oil burners provide trouble free, safe and full automatic operations with the equipments supplied from the most qualified component producers.

Full Delivery

ALF series burners are prepared with the standard operating elements mounted, factory-adjusted and completely assembled to be delivered in full.

Wide Capacity Range

ALF series burners provide the best and the most economic alternatives with the wide capacity range for households, small-medium commercial and industrial establishments, hot water boilers.

High Efficiency and Low Fuel Consumption

The construction for air suction and fuel-air mixture preparation provides ideal and highly efficient mixture.

By this means stable combustion with maximum fuel economy is maintained.

Low Emmision

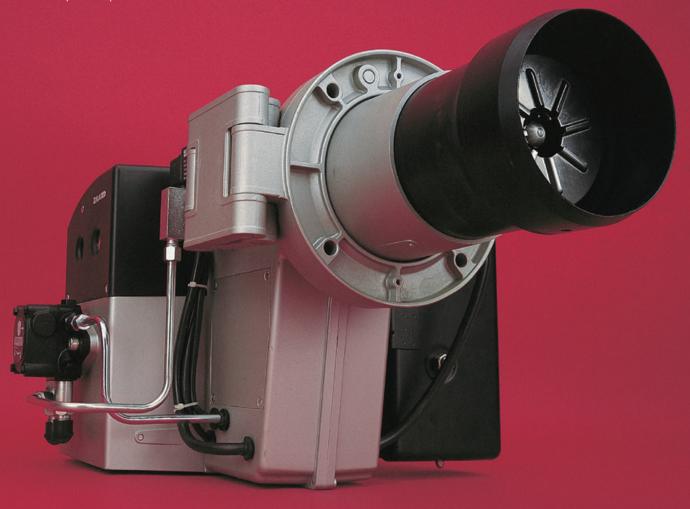
Low rates unburned oil in combustible products.

Reliable

High technology product. Quality and durable material. 100% post-production tested. Reliable capacity.

Light and Silent

Reliable capacity is provided with particularly designed wing, lighter due to volute shaped aluminium injection body. Silent operation with acoustic isolation.



New and High Technology



Easy connection to the boiler with hinged flange. Burner can be serviced by turning.



Easy capacity adjustment without opening boiler cover. Combustion head can be mounted to the air diffuser and this allows easy capacity adjustment and maintenance for any type of boiler.



Dry type heater provides preheating of fuel resulting less electrical power consumption. Smaller and compact heater with easy adjustable thermostat.



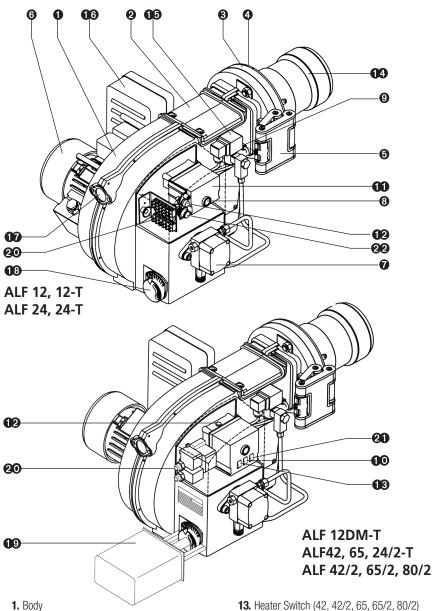
Special design stainless steel combustion head and air diffuser assembly provide ideal air-fuel mixture and efficient combustion at each adjustment point.



Sensitive combustion air adjustment with air flap adjustment key.



Easy electrical connections with sockets. With the electrical panel mounted on the air suction cell ease of assembly and maintenance.



14. Combustion Nozzle

17. Observation Window

18. Air Throttle Adjustment Knob

Connection (12, 24)

20. Coupling (42, 42/2, 65, 65/2, 80/2)

21. Socket Clip (12-T,12DM-T, 24-T, 24/2-T)

15. 1st Solenoid Valve

19. Damper Motor

16. Heater

- 1. Body
- **2.** Top Cover
- 3. Boiler Connection Flange
- 4. Boiler Connection Gasket
- 5. Hinge
- 6. Burner Motor
- **7.** Fuel Pump
- 8. Reset*
- 9. Photocell
- **10.** 1st Nipple Switch (24/2-T, 42, 42/2, 65, 65/2, 80/2)
- 11. Electronic Control Unit
- 22. 2nd Nipple Switch (24/2-T, 42/2, 65/2, 80/2) ON/OFF Switch (12, 12-T, 12DM-T, 24, 24-T)

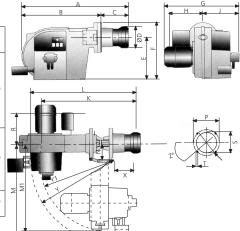
* ALF 12, 12-T, 12DM-T, 24, 24-T, 42, 42/2, 65, 65/2, 80/2 models

Technical Specifications

Alarko Carrier's ALF series burners are designed to burn medium and heavy oils which has maximum viscosity 37 cSt (50°C) within the range of 1-2 USgal/h, 80 cSt (50°C) within the range of 2-5 USgal/h and 450 cSt (50°C) over 5 USgal/h capacities and equipped with the required safety elements according to the international standards. Burners have automatic ignitions and operate silently.

Dimensions (mm)

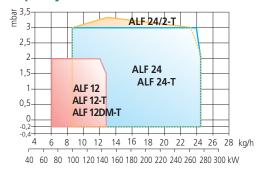
BURNER	I	4	В	С		ØD	E	F	G	Н	J	к		М	M1	N	ØР	R	øs	т	γ	Y1	х	Z
TYPE	min.	maks.	D	min.	maks.	טש	ם טש		u	11	J	_ r	-	IVI	IVII	N	יוש	n	พอ	'	ı ا	11	^	_
ALF 12									451	216														
ALF 12-T	677	684		183	190	120			478	256														
ALF 12DM-T			494				054	251	4/0	200	221	610			552	100	170	230	100	l Mo	R465		100	450
ALF 24	676	690	494	182	196		251	351	451	216	221			-		102	1/0		132	M8			160	45°
ALF 24-T	0/0	090		102	190	130			478	256														
ALF 24/2-T	686	699,5		192	206				482	261] [712			654			261			R491			ı
ALF 42		797			202																			
ALF 42/2		792		182	197	159		434									186		162					
ALF 65/2	777	192	595		197		318		571	293	276	712	794	745	663	115		281		M10	R643	R561	164	45°
ALF 65		801		181	205	181		440									208		185					
ALF 80/2		794		101	198	101		440									200		100					
ALF 130/2	1.067,5	1.104,5	807.5	260	297	204	378,3	528,3	746	348	398	934	1.016	911	993	152	300	313	230	M10	190	173	230	45°
ALF 180/2	1.077,5	1.114,5	0,100	270	307	226	3/0,3	020,3	/40	J40	290	934	1.010	ฮแ	333	102	300	313	230	MIU	190	1/3	230	40



Technical Data

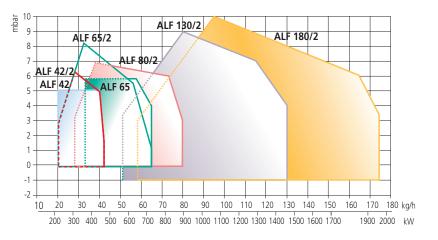
BURNER TYPE	CAPA	ACITY		HEAT	LOAD		MO	TOR	LIEATED	NET	DOMED	PACKAGE DIMENSIONS	
	kg/s	saat	k'	W	kc	al/h	IVIU	IUN	HEATER kW	WEIGHT	POWER SUPPLY		
	min.	max.	min.	max.	min.	max.	Speed (d/d)	Power (kW)	r.vv	kg	JUFFLI		
ALF 12							2.860	0,25		27,5	1~220V - 50Hz	565 x 805 x 525	
ALF 12-T	6	12,5	67,7	141	58.200	121.250	2 000	0.07	1,04	29	0.000/0001/ 5011-	000 x 000 X 020	
ALF 12DM-T							2.800	0,37			3~220/380V - 50Hz	575 x 885 x 525	
ALF 24		24,5			82.450	237.650	2.880	0,37	1,5	27,5	1~220V - 50Hz	565 x 805 x 525	
ALF 24-T	8,5		95,9	276,3			2.800			29			
ALF 24-T/2										29,5		575 x 865 x 525	
ALF 42	20	42	225,6	473,7	194.000	407.400			4,5	44,7			
ALF 42/2	20	42	225,6	473,7	194.000	407.400	2.780	0,75		46,6]		
ALF 65/2	20	65	225,6	733,1	194.000	630.500	1			46,6	3~220/380V - 50Hz	680 x 1000 x 640	
ALF 65	33	65	372,2	733,1	320.100	630.100	2.800	1,1		45,8			
ALF 80	28	80	315,8	902,3	271.600	776.000				47,1			
ALF 130/2	51	130	575	1.465	494.700	1.261.000	2.050	2,2	8	90	1 1	0E0 v 1010 v 700	
ALF 180/2	58	174,5	654	1.968	562.600	1.692.650	2.850	3	10,5	95	1 1	850 x 1210 x 700	

Capacity - Pressure Curves



Operating diagram shows the possible fuel consumption relative to the pressure in the combustion chamber.

Fuel consumption shows the maximum values according to the tests in the experiment tubes complying with the EN 267 standards.











The right to amend specifications under technologic developments is reserved



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