Arcotherm & Oklima





Tilting radiation cone

Radiant cone can be tilted unscrewing two plastic knobs



BM2 BIEMMEDUE BM2 BIEMMEDUE

Main features 2 speed version

Thermal power capacity 42.7 kW (Hi)

2° **speed** 45.5 kW (Hs)

Thermal power capacity 34.4 kW (Hi)

1° speed 36.7 kW (Hs)

Tank capacity 65 litres

Run time 2° speed 15 hours

1° speed 18 hours

Power 370 W - 3A

Weight 75kg

Power requirement 230V 50Hz

Dimensions 1380 x 705 x 990 [mm]

Shipping dimensions 1035 x 650 x 1125 [mm] - 93kg

Q.ty for container:

20' 38 heaters
40' 80 heaters
40' HC 80 heaters
Tir 92 heaters



Main features 1 speed version

Thermal power capacity 42.7 kW (Hi)

45.5 kW (Hs)

Tank capacity 65 litres

Run time 15 hours

Power 370 W - 3A

Weight 75kg

Power requirement 230V 50Hz

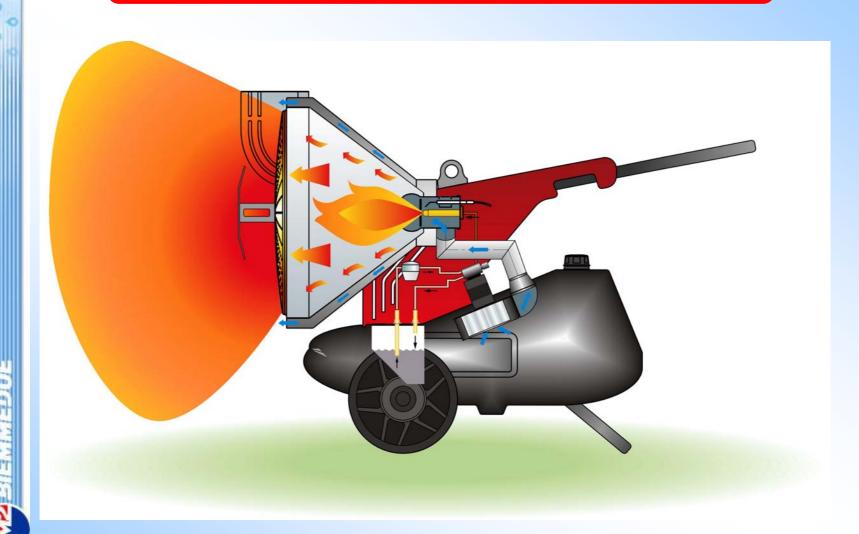
Dimensions 1380 x 705 x 990 [mm]

Shipping dimensions 1035 x 650 x 1125 [mm] - 93kg

Q.ty for container:

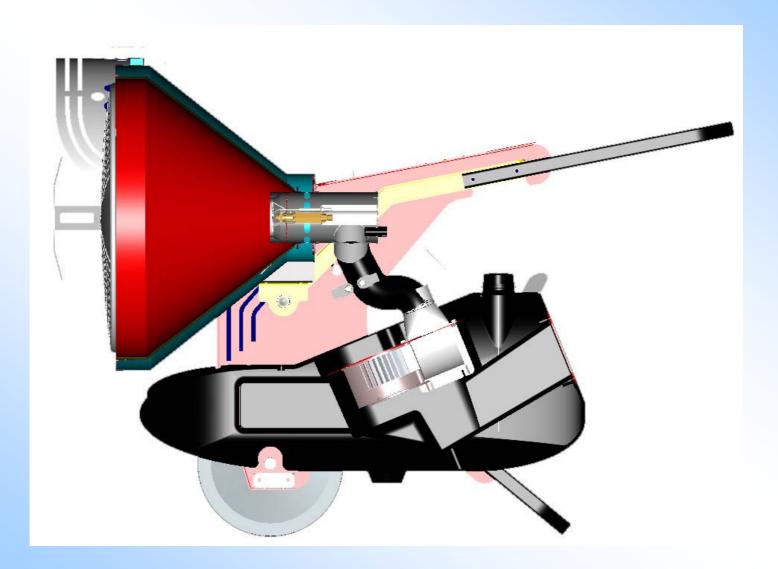
20' 38 heaters
40' 80 heaters
40' HC 80 heaters
Tir 92 heaters

Functining scheme





Heater cutted view

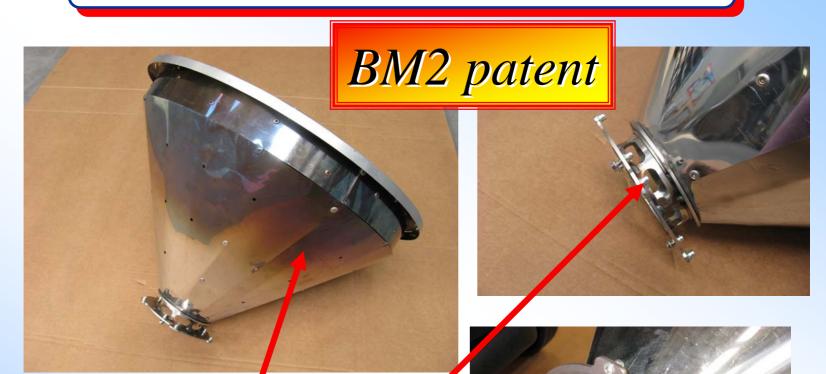




Functioning scheme – combustion head



Combustion chamber no ceramic cone

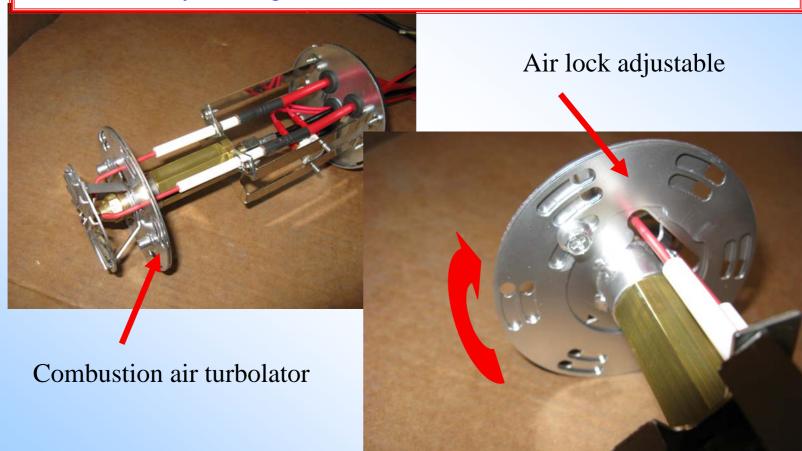


Infrared shield

Air cooling holes

Combustion head

Very efficient combustion head allowing a perfect air/oil mix and consequent complete combustion, with very low (0 ppm) carbon monoxide level Air intake set by a sliding air lock



Overheat thermostat

Stops the heater in case of problem



Front infrared shields



All stainless stell





Lower infrared shield - optional

Lower protection shield to avoid the floor overheating



Large radiation disk



High temperature resistant steel: stainless steel AISI 309 L



One speed version 45kW





Two speed version 45-35 kW

The heater always starts at high power (45kW) which can be converted to low power (35kW) after 20 seconds

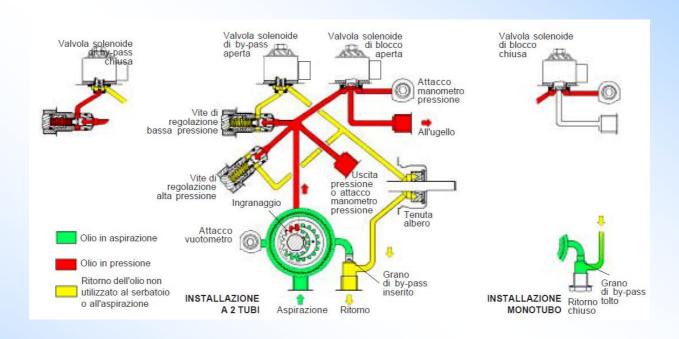
Two stage oil pump

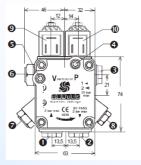


Two stage switch



Two stage oil pump





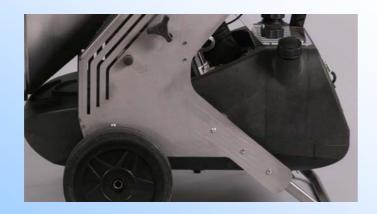
- Entrata (Aspirazione)
- Ritorno con 2 grano di by-pass interno
- Uscita all'ugello
- Attacco
- manometro pressione
- 6 Attacco vuotometro

- 6 Vite di regolazione bassa pressione
- Vite di regolazione alta pressione
- Attacco manometro 8 pressione o uscita pressione
- Elettrovalvola passaggio bassa/alta pressione
 - Elettrovalvola di blocco

Fuel tank

The strong and compact look is given by the innovative design. The oil tank is made of anti-shock polietylene, hydrocarbon resistant, reinforced with special additives, allowing the use in very cold or aggressive environments.

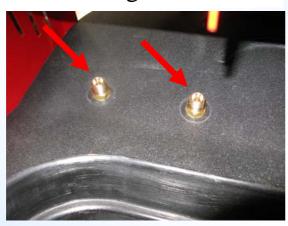
Tank capacity: 65 litres for a long run time autonomy

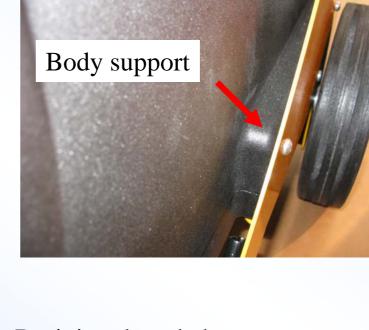




Fuel tank

Oil sucking connections







Draining threaded cap to clean the oil tank

Fuel tank



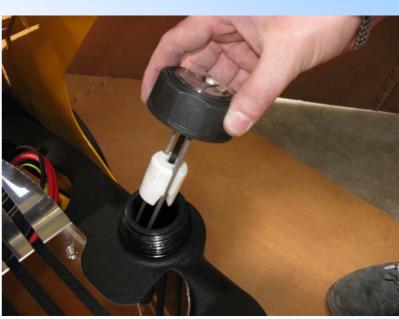
Electrical housing

Water draining hole



Fuel tank gauge





Fuel tank cap



Oil filter and pipes

Rubber oil pipes, hydrocarbons resistant, reinforced with stainless steel sheath, guaranteeing:

- > Higher resistence to very cold conditions
- > Higher mechanical resistance to cuts and cracks



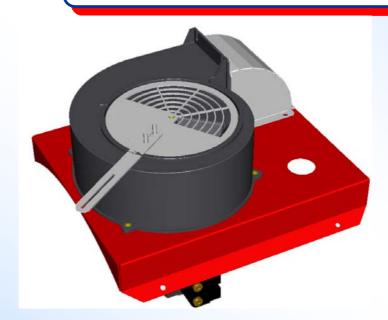


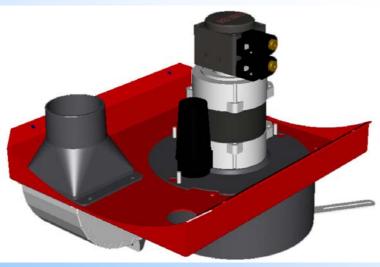
THE STANSFORM

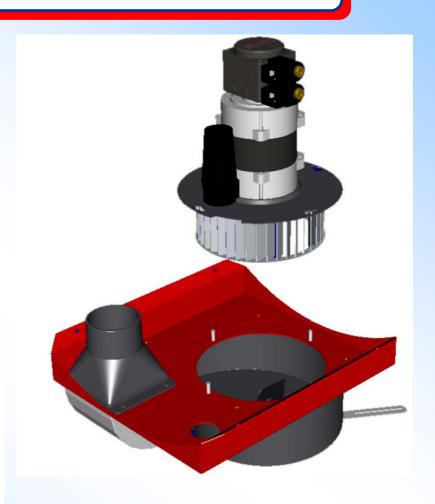
Pre heated oil filter - optional



Burner







Electrical board

The electrical board is made of antishock and fire resistent polypropylen plastic class V0.

The componets are:

- ✓ Electronic control flame
- **✓**Fuse
- **✓** connections
- ✓ relays
- ✓ Ground connections
- ✓ High voltage transformer
- ✓ Switch 1-0-2
- ✓ Switch 0-1
- ✓ EMC Filter



Electrical board

Remote thermostat socket

Power light

Reset



Switch 1

- 1 Manual
- 2 Automatic
- 0 stop

Switch 2 – green light

- 1 2° speed high power 45kW
- 0 1° speed low power 35 kW

Running on automatic or manual

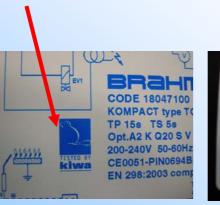
Three position switch:

- Position 0 : stop
- Position 1 : running on *manual*
- Position 2 : running on *automatic* trough a remote thermostat
- No electric bridge required in the socket cap, avoiding problems due to lost caps.



Electronic control flame box CE and CSA approved

- CE approved in conformity to the EN230:2004 standard
- UL-CSA approved, in conformity to the UL 733 by UL
- Three colour warning light:
 - Green colour : working position
 - Orange colour: stand-by position
 - Red colour: lock-out position
- Reset push button
- Fuse









Pre and post ventilation

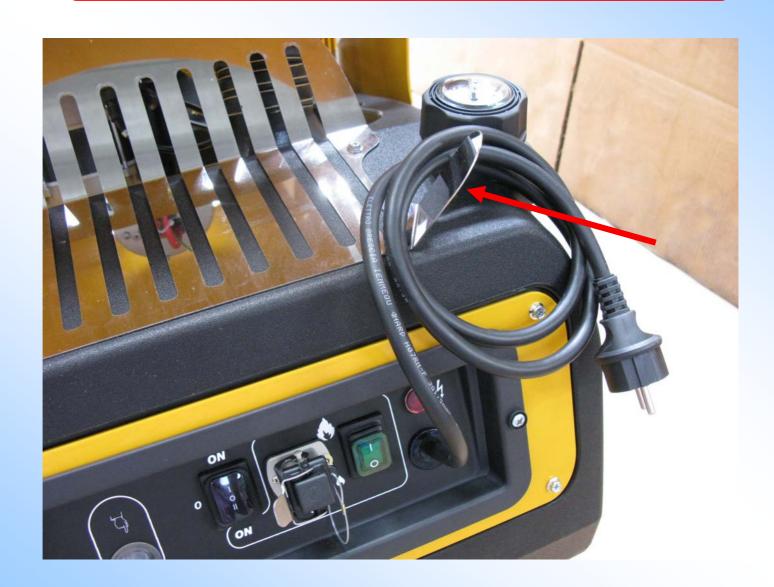
All the models are equipped with:

■ 15 seconds pre-ventilation cycle to "clean" the combustion chamber

After switching off the machine, a post ventilation time is electronically set by a control flame box to lower the combustion chamber temperature. This *free* heat is blown into the room.

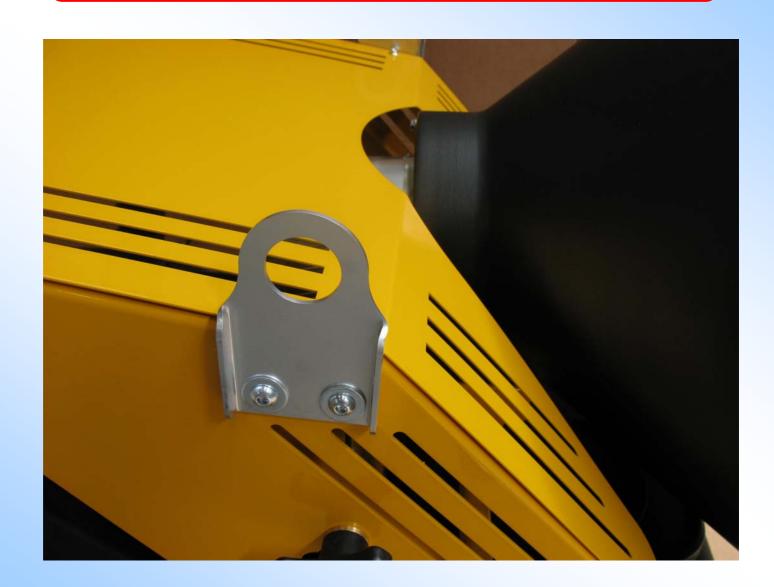
It is possible to select, by a switch on control panel, the fan continue ventilation.

Power cable support





Suspending plates





SCHEDA TECNICA GENERATORI A GASOLIO

FIRE 45 1 vel. CE

Caratteristiche termotecniche

Pot, termica massima gasolio		
Consumo	Kg/h	3,60
@ 0°C	L/h	4,34
	UK gal/h	0,95
rendimento	%	100,00

Pot. Cal. Inferiore Hi			
potenza kcal/h 36.7			
bruciata	kW	42,7	
	BTU/h	146.116	
potenza	kcal/h	36.713	
resa	kW	42,7	
	BTU/h	146.116	

Pot. Cal. Superiore Hs		
potenza	39.130	
bruciata	kW	45,5
	BTU/h	155.737
potenza	kcal/h	39.130
resa	kW	45,5
	BTU/h	155.737

Pressione del con	abustibile	
bar		18,00
indice bacharach	max rendimento	
		0
apertura serrand	a aria	
mm		5,00

pot. Cal. inferiore gasolio MJ/kg	42,69
pot. Cal. superiore gasolio MI/kg	45,50
secondo norma prEN 13842:2002	

Caratteristiche ventilazione

Ventola	
diametro	160x70

Rumore	alm	a 2 m
media dBA	72	70

Autonomia di funzionamento continuo	
capacità serbartoio [litri]	65,00
autonomia [h]	15,0

Ugello gasolio		
Tipo	DELAVAN	80° W
Portata	GPH	0,75

Pompa gasolio		
Type	DANFOSS	BFPC 21 R3

Motore	
Potenza	200 W
corrente	
n. poli / giri [rpm]	.2 / 2800

Ruote	
diametro ruote [mm]	300
diametro mozzo [mm]	25

Caratteristiche elettriche

Alimentazio	1e	Potenza / corr	rente
V/Hz	230 / 50	W/A	370/

Quadro controllo fiamma	
costruttore	BRAHMA
tipo	TGRD 71
approvazione	CE

MACCHINA COMPLETA				
Peso a vuoto Peso con serbatoio pieno				
kg	75	kg	130	
Lunghezza		Larghezza		
mm	1380	mm	705	
Altezza				
mm	990			

IMBALLO			
lunghezza	1.035	altezza	1.125
larghezza	650	peso [kg]	93

TRASPORTI [n. macchine imballate]
Container 20'	38
Container 40'	80
Container 40' High Cube	80
T.I.R. H=2,4m	92





SCHEDA TECNICA GENERATORI A GASOLIO

FIRE 45 2 vel. CE

Caratteristiche termotecniche

Pot, termica massima gasolio 2º stadio		
Consumo	Kg/h	3,60
@ 0°C	L/h	4,34
	UK gal/h	0,95
rendimento	%	100,00

Pot. Cal. Inferiore Hi		
potenza	kcal/h	36.713
bruciata	kW	42,7
	BTU/h	146.116
potenza	keal/h	36.713
resa	kW	42,7
	BTU/h	146.116

Pot. Cal. Superiore Hs		
potenza	kcal/h	39.130
bruciata	kW	45,5
	BTU/h	155.737
potenza	kcal/h	39.130
resa	kW	45,5
	BTU/h	155.737

Pressione del combustibile		
bar		18,00
indice bacharacl	max rendimento	
		0
apertura serrano	la aria	
mm		5,00

pot. Cal. inferiore gasolio MJ/kg	42,69
pot. Cal. superiore gasolio MI/kg	45,50
secondo norma prEN 13842:2002	

Caratteristiche termotecniche

Pot, termica massima gasolio 1º stadio			
Consumo	Kg/h	2,90	
@ 0°C	L/h	3,49	
	UK gal/h	0,77	
rendimento	%	100,00	

Pot. Cal. Inferiore Hi		
potenza	keal/h	29.574
bruciata	kW	34,4
	BTU/h	117.704
potenza	keal/h	29.574
resa	kW	34,4
	BTU/h	117.704

Pot. Cal. Superiore Hs				
potenza	enza kcal/h			
bruciata	kW	36,7		
	BTU/h	125.455		
potenza	keal/h	31.521		
resa	kW	36,7		
	BTU/h	125.455		

Pressione del combu	ıstibile	
bar		11,00
indice bacharach max rendimento		
		0
apertura serranda aria		
mm		5,00

Caratteristiche ventilazione

Ventola		
diametro		160x70
Rumore	alm	a 2 m
media dBA		

Autonomia di funzionamento continuo			
capacità serbartoio	[litri]	65,00	
autonomia [h]	2° velocità	15,0	
autonomia [h]	1° velocità	18,6	

Ugello gasolio		
Tipo	DELAVAN	80° W
Portata	GPH	0,75

Pompa gasoli	0	
Type	DANFOSS	BFP 52 R3
Motore		
Dataman		200 117

rotenza		200 W
corrente		
n. poli / giri [rpm	1]	.2 / 2800

Ruote	
diametro ruote [mm]	300
diametro mozzo [mm]	25

Caratteristiche elettriche

Alimentazione		Potenza / corrente	
V/Hz	230 / 50	W/A	370/

Quadro controllo fiamma	
costruttore	BRAHMA
tipo	TGRD 91
approvazione	CE

Trasformatore di acce	nsione
costruttore	BRAHMA
tipo	TD2
approvazione	CE

MACCHINA COMPLETA				
Peso a vuoto Peso con serbatoio pieno			atoio pieno	
kg	75	kg	130	
Lunghezza		Larghezza		
mm	1380	mm	705	
Altezza				
mm	990			

IMBALLO			
lunghezza	1.035	altezza	1.125
larghezza	650	peso [kg]	93

TRASPORTI [n. macchine imballate]	
Container 20'	38
Container 40'	80
Container 40' High Cube	80
T.I.R. H=2,4m	92



BIEMMEDUE