

Catalogue for SIAL® Heaters

# High performing temporary space heaters



 **Munters**

# Spot heating, where you need it and when you need it.



## Local heating, global distribution

Munters SIAL® heaters are one of the world leading brands of spot, portable and stationary heaters. With more than 30 years of experience and development are SIAL heaters considered one of the most reliable brands in the industry. The wide range of diesel/kerosene, LPG, natural gas and electric heaters available in different sizes and heating output are supplied with superb equipment, for simple use and application. Your essential needs from do-it-yourself to the more job-specific and demanding tasks by a contractor are easily solved by our heaters. The extensive heating needs on the construction and industri-

al sites as well as the requirements for warehouses, shop floors and various industrial and commercial sites will be covered by the broad range of efficient SIAL heaters.

SIAL heaters are carried and distributed all over the world and the popular brand is in constant development and improvement where efficiency and environmental aspects are taken into account.

High efficiency, low fuel consumption, proven quality and service are the key words associated with SIAL heaters.

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## What is right for you?



### Diesel / Kerosene

- most efficient type of heating
- truly portable and self-contained fuel source
- can operate in extremely cold temperatures
- wide choice of both direct and indirect heaters



### Propane

- clean fuel
- 100% efficient direct heaters
- wide choice of models and thermal powers
- all models manufactured under the highest quality and safety standards



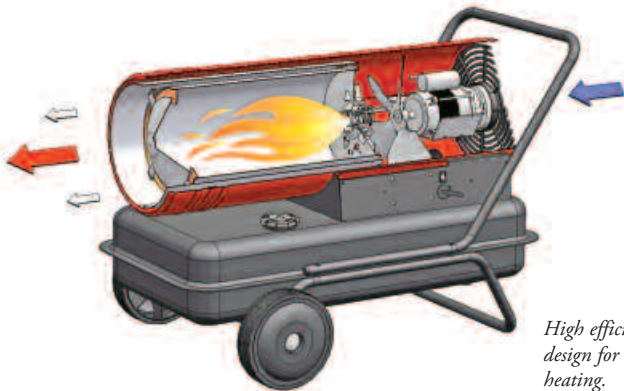
## Portable and mobile direct fired diesel/kerosene heater

- Compact design
- Functions on diesel or kerosene
- Wide range of heaters from 51,600–210,900 Btu/h [15–61 kW]
- Ideal for drying and heating
- Very easy to operate
- Safety switch preventing overheating
- Rotary air compressor
- GRY – D 60 can be connected to a room thermostat
- Suitable for outdoor use

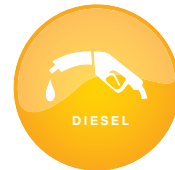


GRY – D heater line provides a cost effective spot and space heating for an extensive variety of applications. The series of direct fired combustion diesel and kerosene heaters are primarily designed for drying in buildings and for heating of medium to large premises. The direct heater requires continuous ventilation for indoor use.

GRY – D comes both with handle (H) and on wheels (W).



*High efficiency in a solid and flexible design for both portable and mobile heating.*



Model		GRY – D 15 H	GRY – D 20 H	GRY – D 40 W	GRY – D 60 W
Thermal power	[Btu/h]	51,600	80,500	140,200	211,000
	[kW]	15	23	43	61
	[kcal/h]	12,900	20,000	37,000	56,700
Max output temperature	°F [°C]	410 [210]	410 [210]	735 [390]	750 [400]
Airflow	[cfm]	210	240	620	765
	[m³/h]	350	400	1,050	1,300
Power consumption	[W]	100	100	250	250
Amp draw	[A]	1.8	2	4	4
Fuel consumption	[US gallon/h]	0.39	0.58	1.01	1.5
	[l/h]	1,5	2,3	4,3	5,6
Tank capacity	[US gallon]	5.6	5.6	12.2	12.2
	[l]	21	21	46	46
Runtime per full tank	[h]	~ 14	~ 9	~ 12	~ 8
Voltage		115V-60Hz	115V-60Hz	115V-60Hz	115V-60Hz
Dimensions WxDxH	[inch]	13.9x31.5x15.5	13.9x31.5x15.5	22.1x36.6x24.2	22.1x41.9x24.6
	[mm]	352x800x393	352x800x393	560x930x615	560x1,065x625
Weight	lb [kg]	41 [19]	44 [20]	82 [37]	88 [40]
Noise rating at 1 m (3 ft.)	[dB]	68	73	78	79

For accessories see page 10

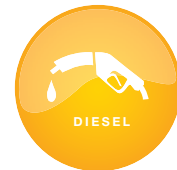
# Mobile direct fired diesel/kerosene heater

- Robust and tough design
- Functions on diesel or kerosene
- Wide range of heaters from 227,000–607,000 Btu/h [67–175 kW]
- Ideal for drying and heating
- Easy to operate
- Safety switch preventing overheating
- High pressure fuel pump
- Suitable for temporary and emergency heating
- Heated filter included
- Possible to connect a room thermostat
- Suitable for outdoor use or semi-closed environments



TOR heater line provides a cost effective spot heating for medium to large outdoor areas or indoor areas with continuous ventilation. These heaters are ideal for temporary heating, emergency heating and for drying in different application areas. TOR is an optimal choice for heating purpose on construction sites and for different temporary open structures. Ideal for concrete freeze protection, outdoor job sites, crop drying and pre-heating and defrosting parts.

*Reliable unit direct fired heater with 100% thermal efficiency in a compact design of direct fired diesel/kerosene heating. High performance and low fuel consumption.*

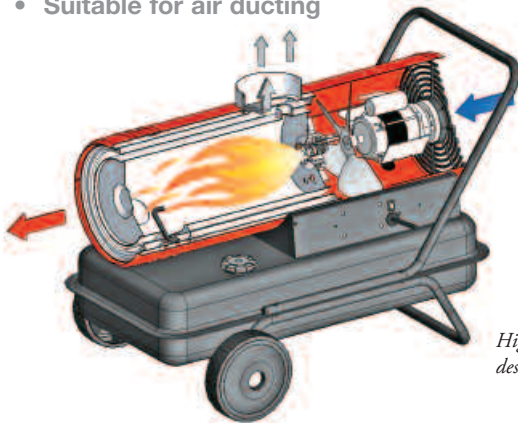


Model		TOR 67	TOR 115	TOR 175
Thermal power	[Btu/h]	227,000*	396,500*	607,000
	[kW]	66*	115*	175
	[kcal/h]	56,700*	99,100*	151,200
Max output temperature	°F [°C]	572 [300]	662 [350]	698 [370]
Airflow	[cfm]	1,650	2,825	3,240
	[m³/h]	2,800	4,800	5,500
Amp draw	[A]	7	12.5	17.5
Power consumption	[W]	460	800	1,100
Fuel consumption	US gallon/h [l/h]	1.6 [6.1]	2.8 [10.6]	4.28 [16.3]
Tank capacity	US gallon [l]	13.5 [51]	26.5 [100]	36 [135]
Runtime per full tank	[h]	~ 8	~ 9	~ 8
Voltage		115V-60Hz	115V-60Hz	115V-60Hz
Dimensions WxDxH	[inch]	24.4x55.3x29.5	27.2x66.1x35.4	29.6x76.3x40.8
	[mm]	620x1.405x750	690x1.680x898	751x1.940x1.035
Weight	lb [kg]	142 [65]	223 [101]	264 [120]
Noise rating at 1 m (3 ft.)	[dB]	75	75	77

For accessories see page 10

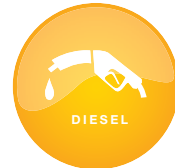
# Mobile indirect fired diesel/kerosene heater

- Compact design
- Functions on diesel or kerosene
- Wide range of heaters from 91,750–133,000 Btu/h [26–38.5 kW]
- Ideal for drying and heating
- Very easy to operate
- Safety switch preventing overheating
- Rotary air compressor
- Possible to connect to a room thermostat
- Suitable for both indoor and outdoor use
- Suitable for air ducting



*High efficiency in a solid and flexible design for mobile heating installations.*

The GRY – I heater line provides a cost effective spot and space heating for an extensive variety of applications including closed or less ventilated premises where people are present over a longer time. The series of indirect fired combustion diesel and kerosene heaters are primarily designed for drying in buildings and for heating purpose of medium to large premises.

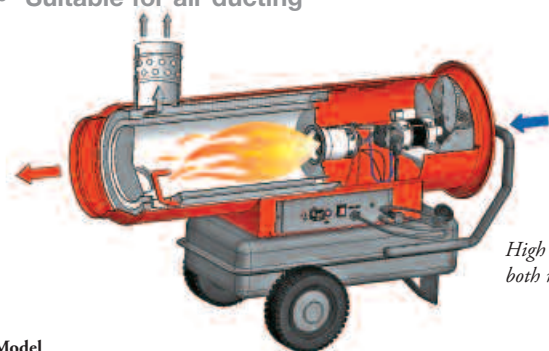


Model		GRY – I 25	GRY – I 40
Thermal power	[Btu/h]	91,750	133,000
	[kW]	26	38.5
	[kcal/h]	22,400	33,200
Temperature raise	°F [°C]	120 [49]	180 [82]
Max output temperature	°F [°C]	240 [115]	240 [115]
Efficiency (based on EU standards)	[%]	81.6	81.4
Airflow	cfm [m <sup>3</sup> /h]	557 [950]	710 [1,200]
Power consumption	[W]	250	250
Amp draw	[A]	4	4
Fuel consumption	US gallon/h [l/h]	0.66 [2,59]	0.94 [3,54]
Tank capacity	US gallon [l]	12.2 [46]	12.2 [46]
Runtime per full tank	[h]	~ 18	~ 13
Voltage		115V-60Hz	115V-60Hz
Dimensions W×D×H	inch [mm]	22.1×36.6×24.6 [560×930×625]	22.1×41.9×25.6 [560×1,065×650]
Weight	lb [kg]	88 [40]	93 [42]
Fan static pressure	inch w/c [mm w/c]	0.5 [13]	0.5 [13]
Duct length, max	feet [meter]	15 [4.5]	15 [4.5]
Duct diameter	inch [mm]	12 [305]	12 [305]
Noise rating at 1 m (3 ft.)	[dB]	78	78

For accessories see page 10

## Mobile indirect fired diesel/kerosene heater

- Robust and tough design
- Functions on diesel or kerosene
- Wide range of heaters from 180,900–288,700 Btu/h [52.5–83.9 kW]
- High thermal efficiency
- Ideal for drying and heating
- Easy to operate
- Safety switch preventing overheating
- High pressure fuel pump
- Suitable for temporary and emergency heating
- Heated filter included
- Possible to connect to a room thermostat
- Suitable for air ducting



MIR heater line provide a cost effective heating for closed or less ventilated medium to large premises where people are present over a longer time. These heaters are ideal for temporary heating as well as emergency heating. They can typically be used on the construction site, in an assorted range of workshops and for different temporary structures such as tents. This is an ideal heater for various types of events.

*High efficiency in a solid and flexible design for both mobile heating and hanging installations.*

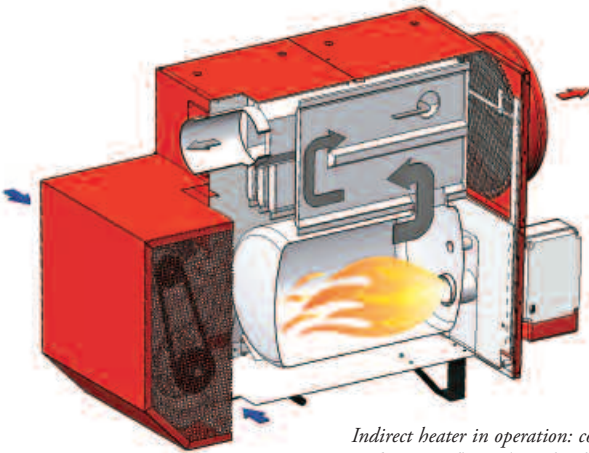


Model		MIR 55 W	MIR 85 W
Thermal power	[Btu/h]	180,900	288,700*
	[kW]	52,5	83,9*
	[kcal/h]	42.500	72.200*
Temperature raise	°F [°C]	130 [55]	130 [55]
Max output temperature	°F [°C]	240 [115]	240 [115]
Efficiency (based on EU standards)	[%]	87.1	88.5
Airflow	cfm [m³/h]	1,470 [2.500]	2,650 [4.500]
Power consumption	[W]	460	800
Amp draw	[A]	7	12.5
Fuel consumption	US gallon/h [l/h]	1.3 [4,84]	2.1 [7,72]
Tank capacity	US gallon [l]	26.5 [100]	36 [135]
Runtime per full tank	[h]	~ 20	~ 17
Voltage		115V-60Hz	115V-60Hz
Dimensions W×D×H	inch [mm]	27.6×54.8×32.7 [701×1.393×830]	29.5×68×40.4 [750×1.728×1,027]
Weight	lb [kg]	178 [81]	282 [128]
Fan static pressure	inch w/c [mm w/c]	0.7 [18]	0.8 [20]
Duct lenght, max	feet [meter]	25 [7,5]	25 [7,5]
Duct diameter	inch [mm]	12.5 [318]	15 [380]
Noise rating at 1 m (3 ft.)	[dB]	75	73

For accessories see page 10

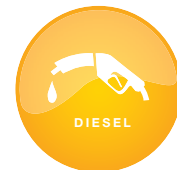
## Mobile indirect fired diesel heater

- High efficiency indirect heaters
- Suitable for both mobile and stationary installation
- Low emission, high performance oil burner
- Stainless steel combustion chamber and heat exchanger
- Equipped with centrifugal (C) fan
- Suitable for air ducting
- Suitable for both indoor and outdoor use
- Heated filter included



*Indirect heater in operation: continuous amount of ambient air flows along the chamber and heat exchanger, resulting into clean air and high efficiency output.*

HEL heaters are robust, powerful and efficient, suitable for space heating of large/very large indoor areas with people present. They are ideal for temporary and emergency heating needs, as they are self-standing and fitted with wheels. HEL are designed for applications in the construction industry, concrete drying, protection from frost and comfort heating in working areas. HEL heaters are well fitted for the rental market. Fuel tank is not included.

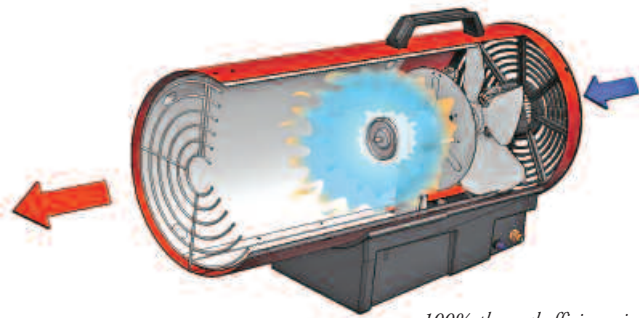


Model		HEL 110 C	HEL 150 C	HEL 200 C
Thermal power	[Btu/h]	400,000	500,000	720,000
	[kW]	117	146	210
	[kcal/h]	100.800	126.000	181.500
Efficiency (based on EU standards)	[%]	90.3	90.3	90.3
Airflow	cfm [m <sup>3</sup> /h]	5,000 [8.500]	6,500 [11.000]	8,200 [14.000]
Fan static pressure	inch w/c [mm w/c]	1.77 [45]	2.05 [52]	2.09 [53]
Noise level	[dB(A)]	75	77	79
Power consumption	[W]	1,200	2,300	3,100
Fuel consumption	US gallon/h [l/h]	2.87 [10,5]	3.58 [13,2]	5.1 [19,4]
Voltage		230V-60Hz	230V-60Hz	230V-60Hz
Dimensions WxDxH	[inch]	33.8x83.2x51.6	33.8x86.8x54.5	41.1x106.5x66.7
	[mm]	860x2.114x1.310	860x2.205x1.385	1.043x2.706x1.694
Weight	lb [kg]	519 [235]	651 [295]	883 [400]

For accessories see page 10–11

## Portable direct fired LPG heater

- Compact portable gas heater
- Functions on propane gas (LPG)
- Heating output manually adjustable on KID 60 and 80
- Wide range of heaters from 49,600–280,400 Btu/h [14.5–82 kW]
- Ideal for space heating
- 100% thermal efficiency
- Easy to operate
- Safety switch preventing overheating
- Safety valve for shutting off gas supply
- Suitable for outdoor use
- 10 feet hose, regulator and excess flow valve included



100% thermal efficiency in a compact design of direct fired gas heating. High performance and low fuel consumption.

The portable KID line provide a cost effective spot heating for a large variety of applications. The serie of direct fired combustion gas heaters are suitable for heating small/medium premises and well ventilated workshops as well as drying in construction industry.

KID can either be configured as a manual (M) version or as an automatic version (A). Automatic version (A) can be connected to a room thermostat.



Model		KID 15 (M)	KID 30 (M)	KID 40 (M)	KID 60 (A)	KID 80 (A)
Thermal power	[Btu/h]	49,600	106,500	148,400	91,800–199,500	122,200–280,400
	[kW]	14,5	31,2	43,5	26,9–58,4	35,8–82,1
	[kcal/h]	12.500	26.800	37.400	23.100–50.200	30.800–70.600
Airflow	cfm [m <sup>3</sup> /h]	177 [300]	442.5 [750]	501.5 [850]	1,062 [1.800]	1,445.5 [2.450]
Gas pressure	psi [bar]	4.4 [0,3]	21.8 [1,5]	29 [2]	29 [2]	29 [2]
Gas consumption	lb/h [kg/h]	3.0 [1,4]	5.4 [2,5]	7.6 [3,4]	10.2 [4,6]	14.3 [6,5]
Voltage		115V-60Hz	115V-60Hz	115V-60Hz	115V-60Hz	115V-60Hz
Dimensions WxDxH	[inch]	7.2x18.1x9.4	11.1x27.4x16.1	11.1x27.4x16.1	14.6x30.7x20.5	14.6x36.4x20.5
	[mm]	183x460x240	282x697x410	282x697x410	370x780x520	370x925x520
Weight	lb [kg]	13 [6]	29 [13]	29 [13]	44 [20]	51 [23]

Ignition system: Manual (Kid 15 M), Continuous Spark (Kid 30 M and 40 M), Electronic (Kid 60 A and 80 A).

For accessories see page 10

# ACCESSORIES

	Reference	Description	Model
	20430001 20430003	Plug for thermostat connection on mobile heaters	KID, TOR, GRY – I, MIR, HEL
	20360012	Room thermostat with ON/OFF switch and 10 m cable and plug. Regulation range +41 °F – 86 °F (+5 °C – 30 °C)	KID, TOR, GRY – I, MIR, HEL
	20360011	Room thermostat for GRY (GRY WI excluded) with 10 m cable and plug. Regulation range +41 °F – 86 °F (+5 °C – 30 °C)	GRY – D
	20360013	Protected thermostat for yards and dusty environments with 10 m cable and plug. Regulation range +32 °F – 104 °F (0 °C – 40 °C)	KID, TOR, GRY – I, MIR, HEL
	20840053	Adaptor for polyethylene sheath/PVC	MIR 55
	20840054	Adaptor for polyethylene sheath/PVC	MIR 85
	20230252	Hose clamp Ø 60 – 660 mm	HEL 110 – 150, Air outlet
	20230252	Hose clamp Ø 60 – 660 mm	HEL 110 – 150 – 200, 4 outlet panel
	20230252	Hose clamp Ø 60 – 660 mm	HEL 150, Air inlet
	20230270	Hose clamp Ø 700 mm	HEL 200, Air inlet
	20230270	Hose clamp Ø 700 mm	HEL 200, Air inlet

# ACCESSORIES

	Reference	Description	Model
	20620598	Joint for flexible hose Ø 550 mm	HEL 110–150, Air outlet
	20620599	Joint for flexible hose Ø 240 mm	HEL 110–150, 4 outlet panel
	20620594	Joint for flexible hose Ø 690 mm	HEL 110–150, Air inlet
	20620594	Joint for flexible hose Ø 690 mm	HEL 200, Air outlet
	20620600	Joint for flexible hose Ø 390 mm	HEL 200, 4 outlet panel
	20620594	Joint for flexible hose Ø 690 mm	HEL 200, Air inlet
	20840119	4-way-head	HEL 110
	20840121	4-way-head	HEL 150
	20840122	4-way-head	HEL 200
	20840095	Front air diffuser	HEL 110
	20840096	Front air diffuser	HEL 150
	20840097	Front air diffuser	HEL 200
	20840142	2-way-head with circular outlets	HEL 110
	20840144	2-way-head with circular outlets	HEL 150
	20840146	2-way-head with circular outlets	HEL 200
	20840107	4-outlet-panel	HEL 110
	20840110	4-outlet-panel	HEL 150
	20840113	4-outlet-panel	HEL 200
	20840023	Oil suction kit	HEL

# HOW TO ORDER

## For further detailed information

Please contact your nearest Munters office or visit our web site [www.munters.com](http://www.munters.com) for ordering Munters SIAL equipment leaflets of the full range of all heaters.

Under following link you can download the PDF version for each heater with detailed technical specifications.  
[www.muntersglobal.com/heating](http://www.muntersglobal.com/heating)

**KOS**  
Indirect stationary diesel heater.

- High efficiency indirect heating
- Suitable for stationary installation
- Low vibration of heater
- Optimum good combustion efficiency with low NOx
- Low emission, high pressure water, 100 bar
- Multiple fuel tanks
- On 3 stream thermostat
- A fully automatic safety shut-off system
- Wide range of models from 34.1 kW to 110 kW

**RPL**  
Portable electrical heater

- Compact and robust
- Power from 230V standard line supply
- Low noise operation
- Overheated, insulated heating elements
- Easy to transport and safe to install
- Suitable for outdoor use

**ISS**  
Mobile infrared diesel fired heater

- Powerful and fast heating effect
- Quiet and safe combustion
- Quick and easy to install
- Adjustable heating angle
- Stainless steel casing and castor
- No air movement
- No motion of fuel particles in the air

**KID**  
Portable direct fired gas heater.

- Compact portable gas heater
- Placable on propane gas (LPG)
- Heating output max is adjustable in KID 30 and larger models
- Wide range of heater types 10 to 50 kW
- Low flow rate heating
- 100% thermal efficiency
- Easy to install
- Safety switch preventing over heating
- Quick supply valve for refilling of gas ready
- Suitable for outdoor use

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# FULL PRODUCT OVERVIEW

## Code for the extra equipment.

C *centrifugal fan*  
 F *floor standing*  
 H *handles*  
 I *indirect fired*  
 S *suspended*  
 W *wheels*  
 X *axial fan*

## Code for specifying ignition.

A *automatic*  
 M *manual*

## Code for specifying voltage.

E *230V~50Hz*  
 O *230V~60Hz*  
 T *400V3~50Hz*  
 U *115V~60Hz*  
 V *110/230V~50Hz*



Model	Size	Equipment	Ignition	Voltage
AFL	95	S		E
AFL	125	S		E
ARF	55	S		E
ARF	95	S		E
ARF	95t	S		E
ARG	100		M	V
ARG	100		A	E
BSS	1.5	F		E
DOM	16	I		E
DOM	20	I		E
DOM	30	I		E
GRY-D	15	H		E / U
GRY-D	20	H / W		E / U
GRY-D	28	W		E / U
GRY-D	40	W		E / U
GRY-D	60	W		E / U
GRY-I	15	W		E / U
GRY-I	25	W		E / U
GRY-I	40	W		E / U
HEL	80	X		E
HEL	100	X		E
HEL	110	C		E / O
HEL	140	X		E
HEL	150	C		O / T
HEL	170	X		T
HEL	200	C		O / T
ISS	40			E / V
KID	10		M	E
KID	15		M	E / U
KID	30		M	E / U / V
KID	30		A	E
KID	40		M	E / U / V

Model	Size	Equipment	Ignition	Voltage
KID	40		A	E
KID	60		M	E / V
KID	60		A	E / U
KID	80		M	E / V
KID	80		A	E / U
KOS	34	I		E
KOS	47	I		E
KOS	70	I		E
KOS	93	I		E
KOS	110	I		E
LOT	2.4			E
MAG	60	I		E
MAG	100	I		T
MAG	160	I		T
MAG	220	I		T
MAG	320	I		T
MAG	460	I		T
MAG	640	I		T
MIR	37	W		E / U / V
MIR	55	S / W		E / U / V
MIR	85	S / W		E / U / V
RPL	2	F		E
RPL	3.3	F		E
RPL	5	F		T
RPL	9	F		T
RPL	15	F		T
RPL	18	F		T
RPL	22	F		T
RSH	3	W		E
RSL	3	W		E
TOR	67			E / U / V
TOR	115			E / U / V
TOR	175			U

# Guide to estimate required thermal power (imperial units)

Considering that the salesman should give the customer a choice of SIAL heaters, his personal experience is very important. You will find here below an empirical formula to estimate the needed thermal power.

**Thermal power =  $V \times \Delta t \times K/16$**

$V$  *volume of area to be heated (surface area x height) in ft<sup>3</sup>*

$\Delta t$  *difference between the outside temperature and the desired inside temperature (in °F)*

$K$  *dispersion coefficient*



**K = 3.0 – 4.0**

**NON INSULATED**

A simple building in wood or in corrugated metal.



**K = 2.0 – 2.9**

**BADLY INSULATED**

Building with poor insulation, with single brick walls, with windows or glass door and with a clear roof.



**K = 1.0 – 1.9**

**MODERATELY INSULATED**

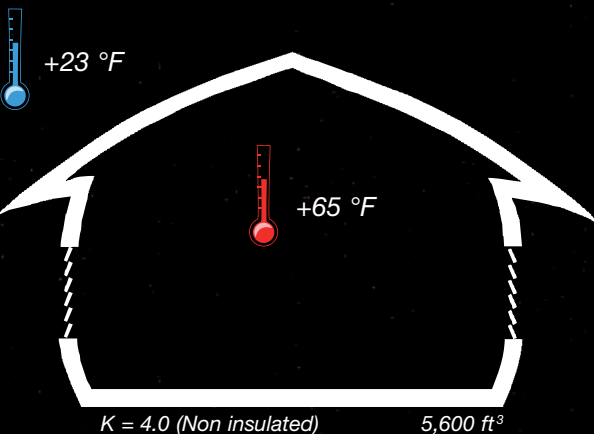
Thick walls, insulated roof and few windows.



**K = 0.6 – 0.9**

**WELL INSULATED**

Double-glazed, few windows, thick insulated walls. Floor, roof and doors are well insulated.



**Example**

- To heat a building site cabin:  $K = 4$
- Height 10 ft – Width 14 ft – Length 40 ft – Volume  $V = 5,600 \text{ ft}^3$
- Outside temperature =  $+23 \text{ °F}$  – Inside temperature required =  $+65 \text{ °F}$   $\Delta t = +42 \text{ °F}$

If we apply the formula, we obtain:  
Power =  $5,600 \times 42 \times 4/16 = 58,800 \text{ Btu/h}$ .

Obviously before purchasing a specific heater, the required thermal heat output has to be calculated.

Please contact our Sales Departments for any clarification needed.

# Guide to estimate required thermal power (metric units)

Considering that the salesman should give the customer a choice of SIAL heaters, his personal experience is very important. You will find here below an empirical formula to estimate the needed thermal power.

$$\text{Thermal power} = V \times \Delta t \times K$$

V volume of area to be heated (surface area x height) in m<sup>3</sup>

$\Delta t$  difference between the outside temperature and the desired inside temperature (in °C)

K dispersion coefficient



**K = 3.0 – 4.0**

## NON INSULATED

A simple building in wood or in corrugated metal.



**K = 2.0 – 2.9**

## BADLY INSULATED

Building with poor insulation, with singlebrick walls, with windows or glass door and with a clear roof.



**K = 1.0 – 1.9**

## MODERATELY INSULATED

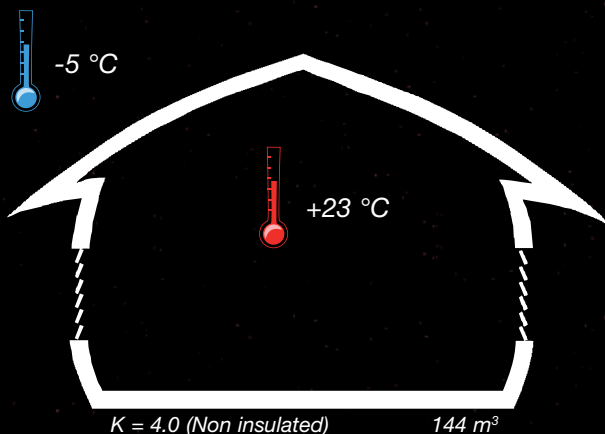
Thick walls, insulated roof and few windows.



**K = 0.6 – 0.9**

## WELL INSULATED

Double-glazed, few windows, thick insulated walls. Floor, roof and doors are well insulated.



## Example

- To heat a building site cabin: K = 4
- Height 3 m – Width 4 m – Length 12 m  
– Volume V = 144 m<sup>3</sup>
- Outside temperature = -5 °C – Inside temperature required = +18 °C  $\Delta t = +23$  °C

If we apply the formula, we obtain:

$$\text{Power} = 144 \times 23 \times 4 = 13.248 \text{ kcal/h.}$$

Obviously before purchasing a specific heater, the required thermal heat output has to be calculated.

Your distributor:



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