



## Technologically Advanced and Environmentally Friendly: – The Kroll range of Oil and Gas Burners

The burner is the core of any warm air heater. Therefore, Kroll pay special attention to the specification and quality of this item. All Kroll burners are subjected to stringent quality controls, including a computerised test procedure, which checks every function of the unit. This quality process ensures the burner will give many years of trouble free operation.



### Gas burners

The Kroll range of gas burners are suitable for all types of gas. By simply chan-



ging the burner nozzle, the burner can be readily converted to either natural gas or L. P. G., a useful feature should the user decide to change their gas type.

The slow opening magnetic valve performs a soft start up of the burner, ensuring a lower noise level and optimum combustion. By request, the burner can also be equipped with an additional magnetic safety valve and / or a seal control.

The Kroll gas burners range from 11–810 kW in output.

### Oil burners

Kroll oil burners combine advanced technology with impeccable attention to detail and quality control. Due to the unique dual air regulation system, the perfect air mass and speed is obtained with just one setting, ensuring the optimum in efficiency and lower emissions.

The self-regulating oil pre-heater, ensures that the oil viscosity is measured. Consequently the start up process causes lower emissions and guarantees a stable combustion process.

The burner is continually monitored via its electronic control unit, which keeps all processes under constant surveillance, ensuring trouble free operation.

The burner is almost silent due to its unique soundproofed inlet casing.

All functioning burner parts are easily accessible making maintenance a simple task.

The Kroll oil burners range from 1–960 kW in output.



### Universal oil burners

Due to a patented combustion technique, the Kroll universal oil burner is suitable for many kinds of oil, including waste, vegetable, animal and conventional oil.

Changing the burner to suit different oil types is an easy process; all you have to do is turn a dial, without the need of any

tools. This ensures the burner automatically varies the air supply to the optimum level.

The Kroll universal oil burners range from 28–95 kw in output.

**Pros heat with Kroll.**



Technical data subject to change without notice.

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## Stationary Kroll Warm air heaters: Hot and fresh air from a standing position...



The stationary Kroll warm air heaters are perfectly suited to the following applications:

- Warehouses**
- Factories**
- Workshops**
- Exhibition Halls**
- Garages & Car Showrooms**
- Furniture Warehouses**
- Sports Facilities and Gymnasiums**
- Greenhouses and Garden Centres**
- and many others**

There is no heat up period with the Kroll range of warm air heaters. The units are both efficient and environmentally friendly, ensuring a pleasant and constant climate throughout the year.

# The Kroll Warm air heaters are profitable to you



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- Exhibition Halls**
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- and many others**

The stationary Kroll Warm air heaters are ...

**... Instantly ready for use**

The warm air is instantly emitted into the required area, as opposed to an indirect heating system that utilises steam or water, which often have long start up periods.

**... Efficient**

Direct firing converts up to 93% of the energy into heat. Accessories such as room thermostats and/or day/night auto switches also help save energy consumption. Installation costs are also kept to minimum, when compared to a wet heating system, which contributes to a cost-effective package.

**... Environmentally Friendly**

The efficient Kroll burner and heat exchanger ensures low energy consumption, which has a direct effect on the amount of Nox produced. Typically these are up to 30% lower than a wet heating system.

**... Convenient**

All Kroll warm air heaters can be tailored to your requirements, which can utilise fresh air, secondary air, and with re-circulated air, which is particularly efficient and cost effective. There is

also a summer switch, which enables ventilation through the unit, in the summer periods.

**... Flexible**

The units can be mounted in an upright or horizontal position. They can be ducted to enable warm air to be distributed to several different locations. Special accessories such as air inlet filters, outlet grill controls, silencers etc ensure that every possible heating scheme can be accomplished.

**... Reliable**

These well-engineered heaters benefit from high quality stainless steel combustion chambers, high quality components and efficient fans

**... Professional service**

Kroll offers a complete professional service, offering our expertise to help calculate and design a warm air solution for you, using our computer aided design programmes. We also offer commissioning and servicing by our engineers if required.

**... Quality**

All Kroll warm air products are manufactured to ISO 9001.



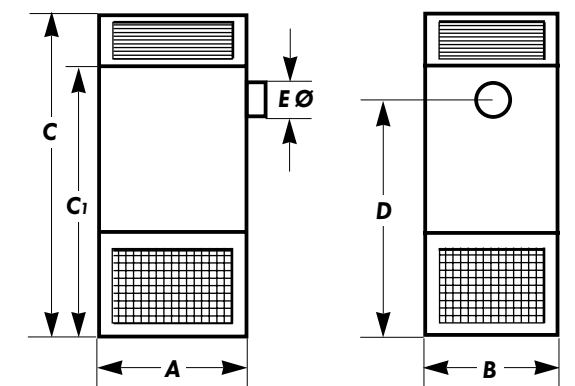
Kroll Warm air heaters provide all kinds of premises with heat: e.g. from 28 kW for garages to 600 kW for factory halls.

## Survey of the Kroll Warm air heaters:

Technical Data		25 S	40 S	55 S	70 S	95 S	110 S	140 S	170 S	195 S
Rated heat load	kW	28	40	55	70	95	110	129	163	194
Rated heating power	kW	25,5	37,5	50,5	64	88	100	120	150	180
Air rate	m <sup>3</sup> /h	1650	2900	3700	5000	6750	7650	9200	11 800	13 800
Rated air rate	m <sup>3</sup> /h	1450	2710	3400	4300	6000	7000	8000	10 300	12 000
Temperature rise (Δ t)	Kelvin	43	42	45	44	44	44	44	43	44
Oil consumption	kg/h	2,36	3,4	4,64	5,9	8,0	9,3	10,8	13,7	16,3
Gas consumption	m <sup>3</sup> /h	2,70	3,85	5,3	6,74	9,1	10,6	12,4	15,7	18,6
Electrical loading	kW	0,44	0,8	1,5	1,5	1,5	1,5	1,1	2,2	1,5
Power connection	Volt Amps	230 2,1	230 3,65	230 6,84	230 6,9	400 3,6	400 3,6	400 2,8	400 4,9	400 3,6
Weight without burner	kg	93	124	157	191	245	265	399	405	495

Technical Data		260 S	290 S	360 S	430 S	490 S	580 S	650 S	730 S
Rated heat load	kW	250	280	326	423	489	544	598	652
Rated heating power	kW	230	260	300	390	450	500	550	600
Air rate	m <sup>3</sup> /h	18 400	20 600	23 400	29 500	35 000	37 500	42 600	48 300
Rated air rate	m <sup>3</sup> /h	16 000	18 000	20 500	25 600	30 4000	32 500	37 100	42 400
Temperature rise (Δ t)	Kelvin	42	42	43	45	43	45	44	42
Oil consumption	kg/h	21	23,5	27,3	35,5	41,1	50,3	54,8	60,2
Gas consumption	m <sup>3</sup> /h	24	26,9	31,3	40,7	47,0	57,5	62,7	68,9
Electrical loading	kW	3,0	3,0	5,5	5,5	7,5	5,5	7,5	11,0
Power connection	Volt Amps	400 6,5	400 6,5	400 11,3	400 11,3	400 15,0	400 11,3	400 15,0	400 21,6
Weight without burner	kg	503	662	689	1004	1015	1185	1196	1248

Measures in mm Types	A	B	C	C <sub>1</sub>	D	E Ø
25 S	715	455	1275	—	910	130
40 S	865	505	1500	—	1110	130
55 S	975	585	1645	—	1195	130
70 S	1085	665	1835	—	1425	180
95 S	1150	765	1895	—	1545	180
110 S	1150	765	1995	—	1545	180
140 S – 170 S	1250	1025	2170	1780	1600	250
195 S – 260 S	1750	1025	2170	1780	1600	250
290 S – 360 S	2200	1025	2170	1780	1600	250
430 S – 490 S	2200	1220	2650	2245	2020	300
580 S – 730 S	2700	1220	2750	2245	2020	300



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