

# MOBILE OIL FIRED HEATERS with and without chimney

for fast heating  
drying and defrosting



**Wilms**

# Overview of hot air turbines

## Technical information – overview

Type	Without flue			With flue							
	B 70	B 125	B 350	BV 135	BV 140	BV 155	BV 185	BV 265	BV 385	BV 535	
Order no.	1021070	1021125	1081350	1221135	1221140	1221155	1231185	1241265	1251385	1261535	
Heat output approx.	kW	20.5	40	100	24.8	25	31	54	70	110	150
	kcal/h	17700	34400	86000	21300	21500	26700	46500	60200	94600	129000
Flow rate	approx. m <sup>3</sup> /h	410	920	6000	1500	1500	2600	4500	6300	8200	11000
Pressure max. tot.	Pa	-	-	-	100	100	110	130	140	220	260
Fuel consumption											
(EL heating oil / petroleum)	approx. kg/h	1.58	3	8.5	2.09	2.11	2.5	4.5	6.0	9.2	12.5
Tank volume	Litres	19	38	120	40	Canister*	Without tank	Without tank	Without tank	Without tank	Without tank
Supply voltage	V/Hz	230 / 50	230 / 50	230 / 50	230 / 50	230 / 50	230 / 50	230 / 50	230 / 50	230 / 50	230 / 50
Dimensions	Length mm	762	990	1,500	1250	1260	1395	1590	1660	1985	2080
	Width mm	305	584	680	490	560	635	725	725	895	915
	Height mm	381	660	1050	690	630	1015	1100	1170	1365	1465
Weight	approx. kg	13	24	105	60	59	150	190	205	305	375
Flue pipe	ø mm	-	-	-	150	150	150	150	150	200	200
Exhaust vent	ø mm	200	230	450	300	300	350	400	450	520	600
Flame monitor	Series	Series	Series	Series	Series	Series	Series	Series	Series	Series	Series
Room thermostat	Order no.	Series	Series	6159451	-	-	-	-	-	-	-
Damp room thermostat	Order no.	-	-	6159450	Series	Series	Series	Series	Series	Series	Series

\*not included.



BV 140 is ready to use.

**The special Wilms BV 140 hot air turbine is a real instant heater and has been specially developed for use in disaster zones:**

All that you need is a military canister filled with heating oil and a 230 V plug socket. Together with the flue, the BV 140 can be easily transported in an emergency vehicle. At the field location, the flue needs to be simply attached, the device plugged in and the suction lance firmly attached to the canister. The damp room thermostat is ideally protected by a removable casing. The heat is directed into the areas requiring heating via an adapter and a hot air hose (optional extra).



Carry handles on both sides



Thermostat for rooms prone to moisture



# Heating with oil, gas or electricity

Wilms has the perfect solution for every type of cold

When a cold spell suddenly sets in, there is often little time for planning. So it can be really beneficial to have an expert partner with a solution for everything by your side: Wilms.

With over 60 years' experience, Wilms is one of the pioneers of instant heaters – for oil, gas and electric.

## Oil heaters with and without vents

These portable devices are ready for use: fill with oil, plug in and you are good to go. The hot air turbines provide heat and prevent frost damage immediately. The large devices with exhaust systems are suitable for long-term use, for heating halls and tents, and have proven their worth heating emergency accommodation in disaster zones across the globe. Infrared heaters provide targeted spot heating through radiant heat.  
(see pages 8-13)

Powerful heating systems and fan heaters complete the Wilms range of oil heaters.  
(see pages 14, 15)



## Gas heaters:

Gas heaters are lightweight, smaller and cost-effective. As such, they tend to be used where mobility is key: on building sites and in rooms with good ventilation where heaters with open flames are permitted. Even a heater offering over 100 kW can be easily transported in the boot. All Wilms' gas heaters meet the highest safety standards and have been built for long-term use.  
(see pages 18, 19)



## Electric heaters and combined gas and electric heaters

Wilms electric heaters are available with axial fans, radial fans (free air delivery including for use with hot air hoses) and infrared heaters with targeted spot heating. One thing they all have in common is that they can be used in non-ventilated spaces, as they don't require any oxygen. Depending on the power, a 230 V or 400 V socket is required.  
(see pages 22-24)

Combination heaters, which offer gas and electric in one device, are ideal for tradespeople.  
(see pages 20, 21)



# Hot air turbines

## without exhaust systems

Each winter, lots of businesses are taken by surprise by cold spells and confronted with sudden problems. Wilms hot air turbines are able to lend a hand in an emergency. Ready for immediate use, they can quickly combat problems relating to the cold and damp. Simply set them up, fill with fuel, plug them in, press a button and feel the heat. They are suitable for a wide range of uses, such as heating construction sites in winter, de-icing or thawing materials, vehicles, pipelines and machinery. They can also be used to heat working areas and animal stalls, to dry out new buildings and all kinds of different products, such as concrete parts, bulk goods, agricultural produce, etc.

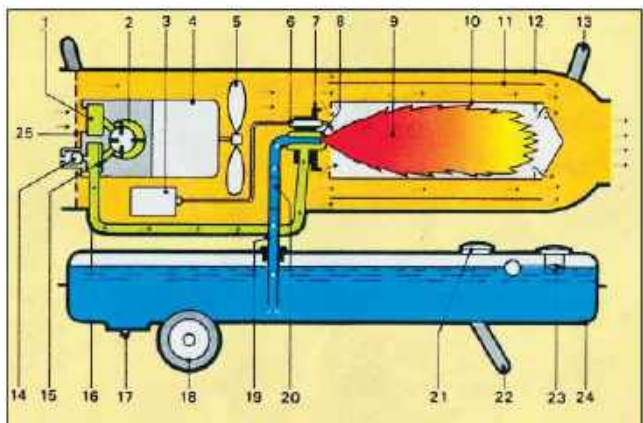
Decades of experience, the latest technology and durable design – all distinguishing features of Wilms hot air turbines.

Heat output from 20.5 to 150 kW (17,700 –129,000 kcal/h). For indoor and outdoor use, with or without exhaust system/flue. The right model for all requirements. The B-range (direct heaters) hot air turbines without exhaust systems from Wilms maximise the combustion energy of the heating oil. This is especially thanks to the unique Wilms low-pressure atomising system. A small air compressor generates a low pressure of 0.3 bar and the air is intensively mixed with the fuel ahead of the nozzle. The result is residue-free combustion, without the formation of carbon black or poisonous gases. In other words, it is both environmentally friendly and economical. This optimum system forms the basis for the Wilms hot air turbines from this performance class achieving the lowest possible consumption. Meanwhile, their ease of use makes them extremely versatile. They can be transported in a car boot.



### Schematic diagram of the low-pressure atomising system

- |                          |                             |
|--------------------------|-----------------------------|
| 1. Air filter            | 14. Pressure regulator      |
| 2. Air compressor        | 15. Filter                  |
| 3. Transformer           | 16. Air duct                |
| 4. Engine                | 17. Drain plug              |
| 5. Fan                   | 18. Wheel                   |
| 6. Ignition cable        | 19. Suction pipe            |
| 7. Burner head           | 20. Oil filter              |
| 8. Nozzle                | 21. Filler pipe and cap     |
| 9. Combustion chamber    | 22. Base                    |
| 10. Flame                | 23. Content level indicator |
| 11. Thermal shield       | 24. Oil tank                |
| 12. Housing              | 25. Protective grille       |
| 13. Handle for transport |                             |



# Hot air turbines

with exhaust systems

Wilms hot air turbines from the BV range are fully automated fan-assisted air heaters with exhaust systems and a very high degree of efficiency. Despite this, they are also portable thanks to their wheels, carrying handle and transport lugs. They feature a combustion chamber made from heat-resistant steel sheeting, and come with a room thermostat, temperature monitor and protection against overheating as standard. These multi-purpose hot air turbines are particularly well-suited to heating workshops and halls, exhibition marquees or new buildings during the construction phase. In other words, wherever people and animals spend long hours in enclosed spaces. The BV 385 is not just one of the most powerful

oil heaters from Wilms; in addition to its impressive heat output, it also offers some detailed technical solutions and accessories that extend its application and make it easier to use.

The stacker is an interesting accessory for rental. The wheel receiver rail, which is easily mounted on the upper part of the housing, makes it possible to stack two of these heaters. This saves considerable space.



## Typically Wilms: clad burner for high levels of operational safety

All heaters from the BV range have been designed so that the burner is protected behind a cover and mounted **at work height** for easy servicing. This makes maintenance much easier. They come with 150 W oil preheating as standard to guarantee safe operation even in extremely cold conditions.



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# Accessories for hot air turbines

Original accessories for versatile applications



## Targeted heating via hot air hoses

If hot air is required in two separate rooms or in one larger room, a hot air hose can be used to distribute the air in two separate directions. Two hot air tubes fit on the Y-tube (see diagram) with its 2 outlets. An adapter with 3 outlets can be used to distribute the heat evenly via 3 hoses.

## Draught-free hot air above head height

A high heat output is always associated with large amounts of air. And this creates an unwanted side-effect: irritating draughts. On the BV 385 and BV 535 models, this is combated by the exhaust opening being pointed upwards and an attached guide tube with a 90° angle. As a result, the air is blown out above head height or directly into an air duct.



## Heater with increased pressure for longer hoses

Additional fans (boosters) are available for applications with longer hoses or ducts. This does not apply to BV 135 / BV 140 / BV 535.

These are assembled in front of the axial fans. The heaters can then be powered with either one or two fans. With two fans and the corresponding increase in pressure, it is possible to overcome distances of up to 40 m.

# Fan heaters

Ready for connection and immediate use

## What happens in your business when a sudden cold spell sets in?

Whether we are talking about a production site, a showroom or a warehouse: unexpected cold weather can lead to unpleasant consequences. And if the first frost has already landed, you need a source of heat that is ready for immediate use, without any extensive set-up.

### Wilms fan heaters.

Use the rule of thumb below to easily work out which Wilms fan heater you need:

**Space in m<sup>3</sup> x 0.040 =  
required heat output (kW)**

This rule relates to normal, insulated working areas. If doors are regularly left open, e.g. in car workshops, etc., this heat requirement needs to be increased by around 20%.

### Wilms quality: a two-year guarantee on the combustion chamber!

Wilms fan heaters come with oil burner, oil filter, suction pipe and return pipe and a thermostat as standard. The exhaust hood comes with directional slats and can be rotated 360°.

**And all of this at a great price.**



### All you need:

**Wilms fan heater, heating oil, a 230 V socket and a suitable flue**

Simply position the fan heater or place on the console (accessory). Connect to the flue. Place the hoses in the canister, the oil drum or the Wilms oil tank (accessory). Plug into a 230 V socket, switch on and feel the heat.

**If you don't have the necessary flue, add one to your order.**

**Required accessories on pages 16/17.**

Type	WLE 40	WLE 75
Order no.	1260040	1260075
Electrical connection V/Hz	230 / 50	230 / 50
Nominal heat output kW	35	70
kcal	30,000	60,000
Flow rate m <sup>3</sup> /h	3100	5200
Oil consumption max. kg: h	3	5.9
Dimensions (L x W x H mm)	1,200 x 500 x 1,700	1,380 x 585 x 1,950
Weight kg	138	210
Flue pipe Ø mm	150	150
Room thermostat	Standard	Standard
Exhaust hood	Standard	Standard

# Heating systems

Versatile use, heating and ventilation

**Wilms' heating systems are the ideal solution for diverse heating and ventilation problems.**

They can be used in the construction industry to heat and dry new builds and winter construction projects, and are also suitable for use in marquees, sports halls, factory halls or warehouses. Thanks to their simple set-up and fully automated functionality with damp room thermostats as standard, they are ready for immediate use.

The galvanised chassis means that they can be transported with both forklift and pallet trucks. Stable eyelets for crane transport are also provided as standard.

All controls and the burner are protected behind lockable doors with openings for cable and fuel pipes. A powerful oil preheating ensures smooth operation, even when external temperatures are cold.

Stackable for space-saving storage when not in use. Optional accessories include intake sockets and a cover plate for recirculated air operation, as well as various exhaust vents.



Protected controls



Oil burner with oil preheating



Double-walled 990 l tank (accessory)



Intake fitting for recirculating (accessory)

Type	HZ 190	HZ 400
<b>Order no.</b>	<b>1270190</b>	<b>1270400</b>
Electrical connection V/Hz	3 x 400 / 50	3 x 400 / 50
Nominal current A	7.5	9.2 / 20.2
Nominal power kW	3.0	3.6 / 8.12
Nominal heat output kW	170	240 / 350
Nominal heat load kW	185	261 / 383
Volume flow m <sup>3</sup> /h	12,000	18,000 / 24,000
External pressure Pa	600	700 - 1000
Oil consumption max. kg: h	15.5	26.0 / 38.0
Exhaust vent Ø mm	600 (standard)	2 x 600 (standard)
Flue pipe Ø mm	200	300
Dimensions (L x W x H mm)	2,400 x 800 x 1,370	3,850 x 1,200 x 2,010
Weight kg	545	1300



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