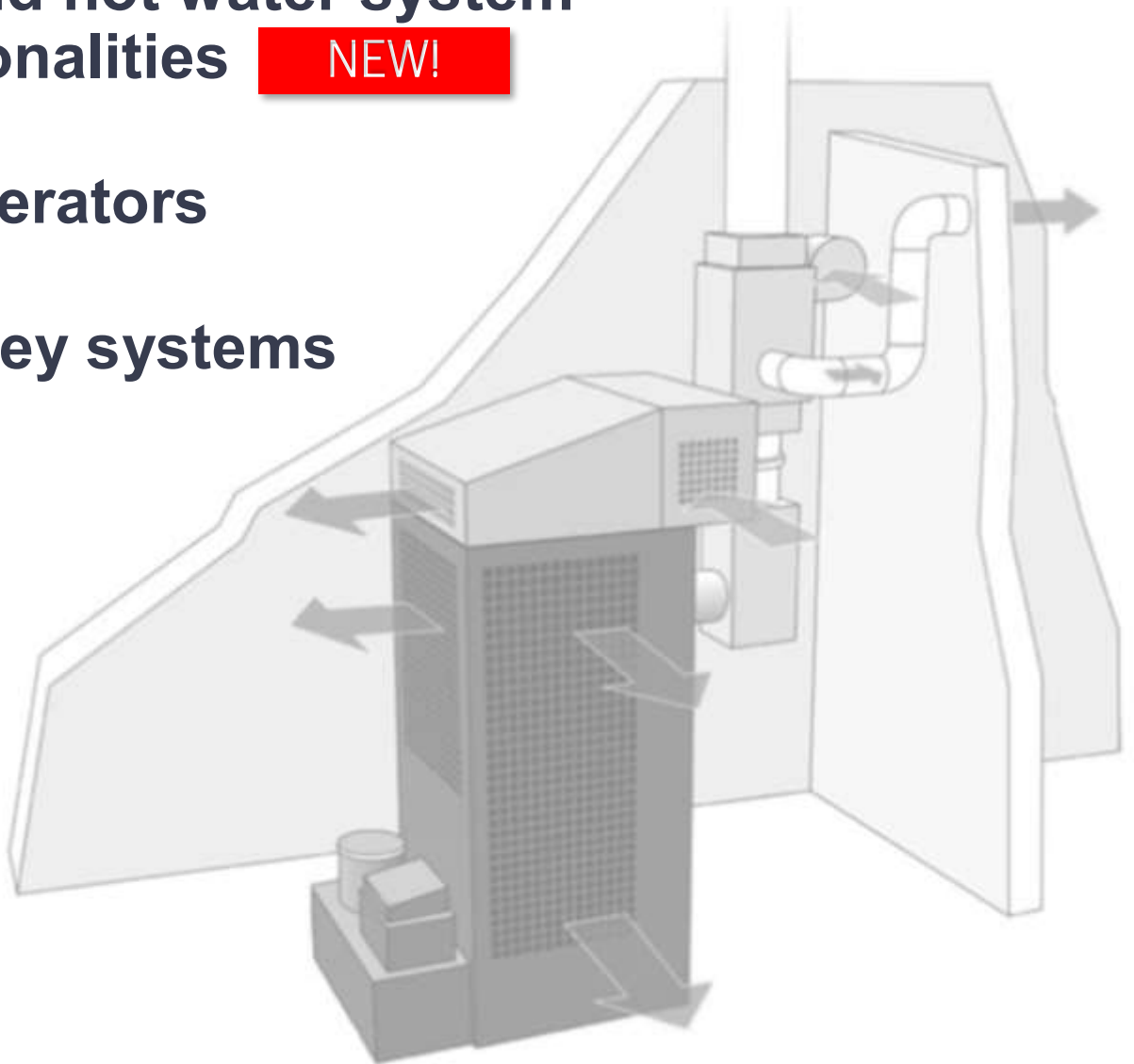




Products Catalog

- Oil air heaters
- Oil air heaters with central heating system and hot water system functionalities **NEW!**
- Recuperators
- Chimney systems





ABIZA is a typical family company. It entered the market in 1982. The main occupation of our firm is manufacturing all types of products from metal sheets. Our chief products are oil powered air heaters, manufactured under the brand name „HITON” www.hiton.pl and chimney systems, produced from stainless and heat-proof steel, used in the construction industry.

Products figuring in our offer are entirely manufactured in our workshop, based on the technical documentation prepared by our own technical-designer team. Our products are labelled with CE marking, additionally approved by TÜV certification.

The Research and Development department consistently improves the implemented technical solutions, in order to increase the efficiency and reliability of our products. At the same time, we offer full range of technical support for our clients.

Our main outlet markets are distributors and heat systems installation companies. Through training courses, we offer technical support in regard to installation and exploitation of our products.

We are present on almost every European market, with our main clients being: England, Germany, Russia, Czech Republic, Slovak Republic, Romania, Moldavia, Scandinavia, Norway and Baltic States. In 2011, Australia joined our clientele.

Apart from the main branch of production, our company takes advantage of the significant intellectual assets of our young team and technical workshop, by establishing cooperation with partners from automotive, electric, electronic, construction and transport industries. For our clients, we offer cooperation from project design to construction of prototype, as well as serial and piece production.

In manufacture of our products we use high quality metal plates, tested through years, coming only from the best European smelters.

Expertise, professionalism and quality are traits that guide our everyday relationships with our clients.

We kindly invite you to cooperation.



Oil air heaters

Hiton oil air heaters produce clean heat with the use of cheap fuel that simultaneously provides high efficiency. Hiton oil air heaters are durable and reliable products, as has been confirmed in tests and in opinions from our clients. The devices are equipped with security measures against overheating and oil spillage.

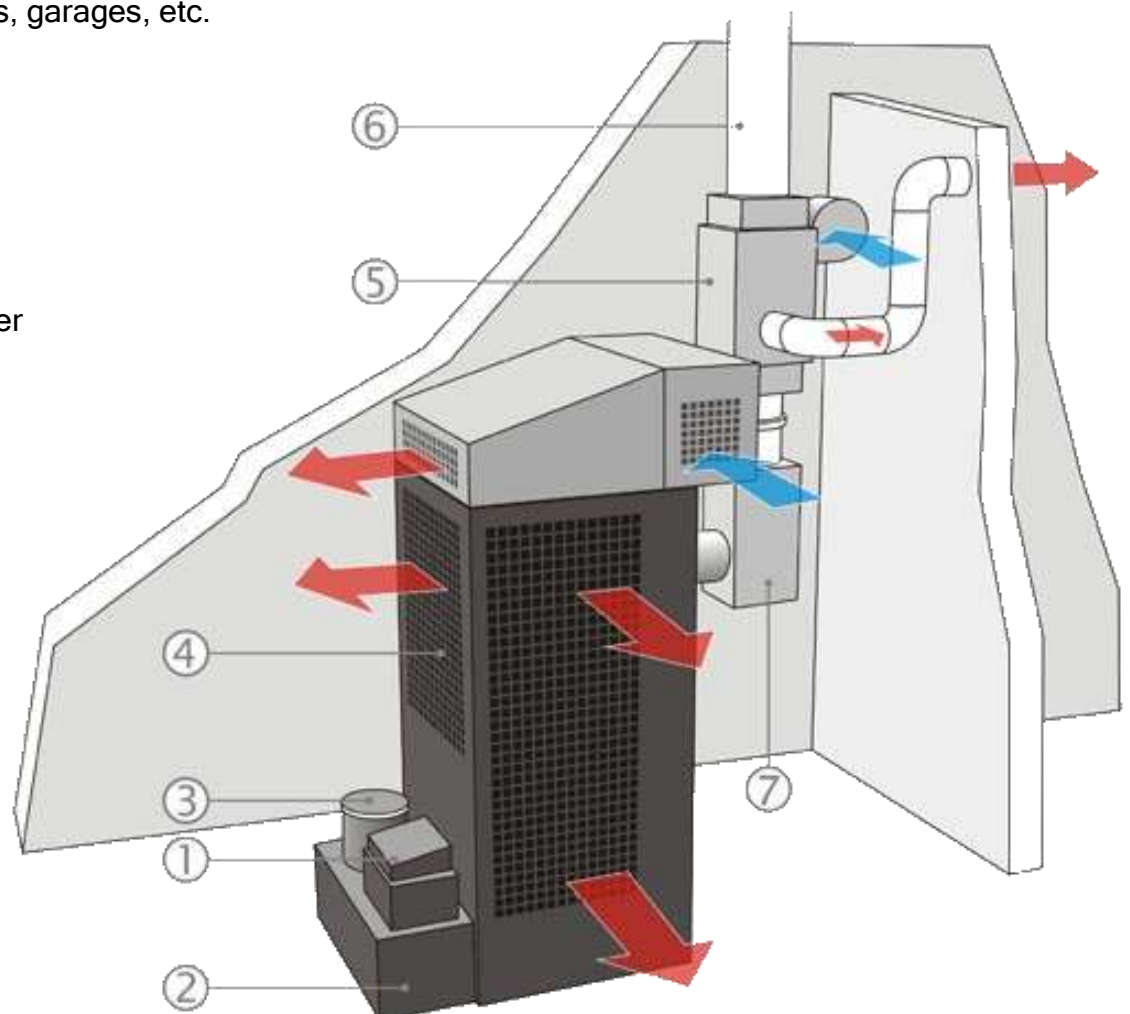
In order to increase the efficiency of HP heaters we have designed and implemented innovative air recuperators. Owing to this upgrade the efficiency of HP heaters has improved substantially.

Heaters can operate on engine, gear, hydraulic, furnace and diesel oils, as well as on residual frying oils from gastronomy.

Implementation:

- industry: industrial halls, warehouses, barns
- automotive sector: workshops and car repair shops
- farming: utility buildings
- others: basements, garages, etc.

1. Control panel
2. Fuel tank
3. Fuel intake
4. Combustion chamber
5. Recuperator
6. Chimney flue
7. Draught regulator



HP-105

Minimum thermal output	20 kW
Maximum thermal output	29 kW
Minimum oil consumption	1,56 kg/h
Maximum oil consumption	2,29 kg/h
Heat airflow	gravitational
Power consumption	0,1 A
Width	54 cm
Height	115 cm
Depth	106 cm
Weight	60 kg
Chimney pipe diameter	150 mm



HP-105.F

Minimum thermal output	20 kW
Maximum thermal output	29 kW
Minimum oil consumption	1,56 kg/h
Maximum oil consumption	2,29 kg/h
Heat airflow	450 m ³
Power consumption	0,4 A
Width	54 cm
Height	123 cm
Depth	106 cm
Weight	64 kg
Chimney pipe diameter	150 mm



HP-115

Minimum thermal output	20 kW
Maximum thermal output	29 kW
Minimum oil consumption	1,56 kg/h
Maximum oil consumption	2,29 kg/h
Heat airflow	600 m ³
Power consumption	0,9 A
Width	54 cm
Height	137 cm
Depth	106 cm
Weight	71 kg
Chimney pipe diameter	150 mm



HP-125

Minimum thermal output	29 kW
Maximum thermal output	39 kW
Minimum oil consumption	2,29 kg/h
Maximum oil consumption	3,13 kg/h
Heat airflow	1000 m3
Power consumption	0,9 A
Width	54 cm
Height	137 cm
Depth	121 cm
Weight	74 kg
Chimney pipe diameter	150 mm



HP-125.O

Minimum thermal output	29 kW
Maximum thermal output	39 kW
Minimum oil consumption	2,29 kg/h
Maximum oil consumption	3,13 kg/h
Heat airflow	1000 m3
Power consumption	0,9 A
Width	54 cm
Height	137 cm
Depth	121 cm
Weight	72 kg
Chimney pipe diameter	150 mm



HP-135

Minimum thermal output	29 kW
Maximum thermal output	42 kW
Minimum oil consumption	2 kg/h
Maximum oil consumption	3 kg/h
Heat airflow	1000 m3
Power consumption	1,0 A
Width	54 cm
Height	137 cm
Depth	121 cm
Weight	83 kg
Chimney pipe diameter	150 mm



HP-145

Minimum thermal output	39 kW
Maximum thermal output	55 kW
Minimum oil consumption	3,13 kg/h
Maximum oil consumption	4,38 kg/h
Heat airflow	2660 m ³
Power consumption	1,6 A
Width	61 cm
Height	168 cm
Depth	123 cm
Weight	112 kg
Chimney pipe diameter	150 mm

HP-145.R

Minimum thermal output	39 kW
Maximum thermal output	55 kW
Minimum oil consumption	3,13 kg/h
Maximum oil consumption	4,38 kg/h
Heat airflow	2660 m ³
Power consumption	1,6 A
Width	61 cm
Height	168 cm
Depth	123 cm
Weight	112 kg
Chimney pipe diameter	150 mm
Ventilation pipe diameter	315 mm



NEW!

Oil air heaters with central heating systems and hot water system functionalities

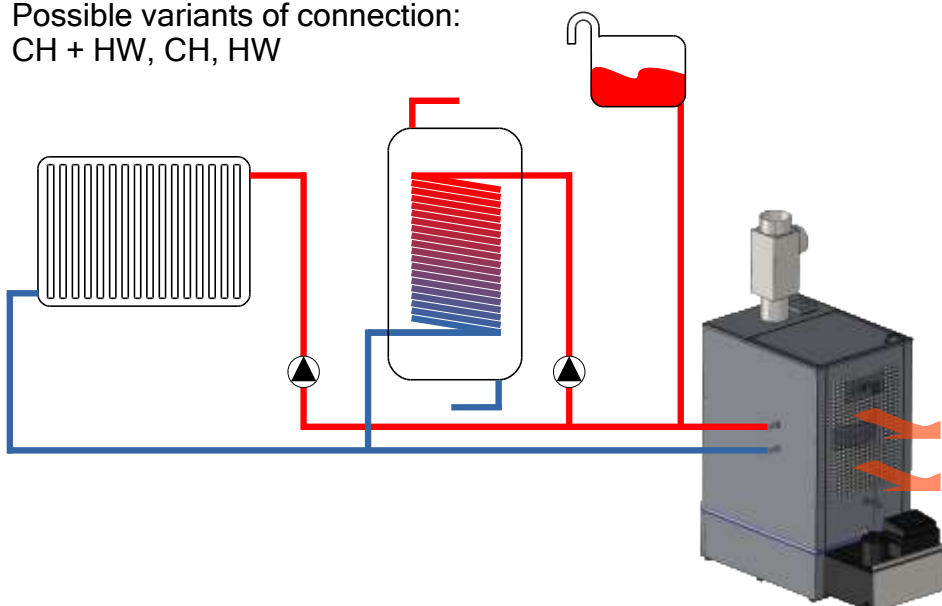
HP-145-WH

HP-145.R-WH

Minimum thermal output	39 kW
Maximum thermal output	55 kW
Minimum oil consumption	3,13 kg/h
Maximum oil consumption	4,38 kg/h
Heat airflow	2660 m ³
Power consumption	1,6 A
Width	77 cm
Height	168 cm
Depth	123 cm
Weight	117 kg
Chimney pipe diameter	150 mm
Ventilation pipe diameter (HP-145.R-WH)	315 mm
Feed and return port diameter	GW-1/2"
Coil power	6-8 kW

Pictorial diagram of connecting the heating system and the hot water system to the heating coil.

Possible variants of connection:
CH + HW, CH, HW

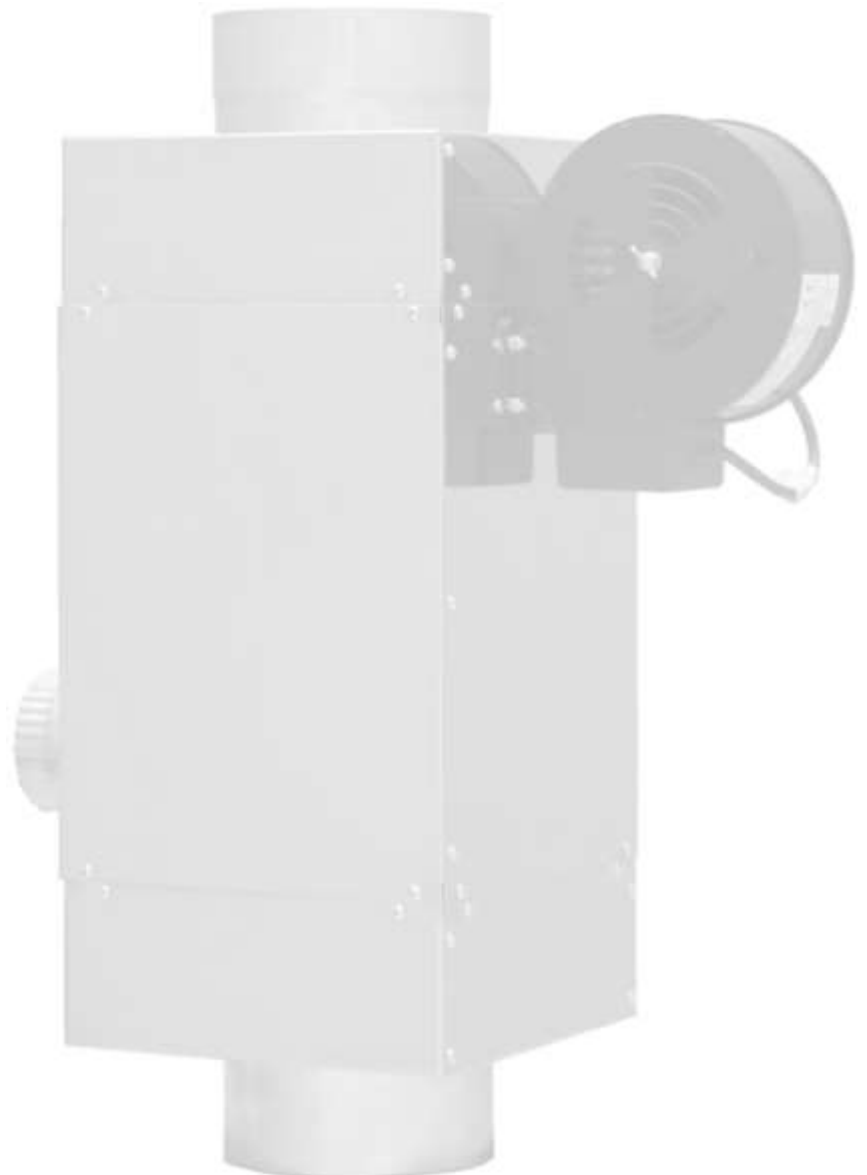


Recuperators

Air recuperators allow for an increase in efficiency of HP heaters. Owing to an air recuperator the performance of HP heater is greatly improved.

A Hiton recuperator is a compact construction consisting of a tubular heat exchanger and a case with an efficient blow-in ventilator, which constitute a single unit. The recuperator is installed directly behind the heater, mounted on the vertical segment of the exhaust pipe.

Additionally, there is an option of directing the retrieved heat through an air duct directly into another room e.g.: offices, staff rooms etc.



HP-135.C50

Universal heating coil recuperator

Chimney pipe diameter	150 mm
Ventilator	+
Noise levels	60 dB
Maximum airflow intensity value	230 m ³ /h
Ventilator propulsion power consumption	80 W
Material used	stainless steel
Width	21 cm
Height	65 cm
Depth	37 cm
Weight	9,8 kg
Maximum exhaust temperature	110°C



HP-145.C00

Universal heating coil recuperator

Chimney pipe diameter	150 mm
Ventilator	+
Noise levels	61 dB
Maximum airflow intensity value	320 m ³ /h
Ventilator propulsion power consumption	80 W
Material used	stainless steel
Width	24,5 cm
Height	63 cm
Depth	45,5 cm
Weight	9,1 kg
Maximum exhaust temperature	110°C



HP-135.C00

Universal heating coil recuperator

Chimney pipe diameter	150 mm
Ventilator	+
Noise levels	61 dB
Maximum airflow intensity value	320 m3/h
Ventilator propulsion power consumption	80 W
Material used	stainless steel
Width	24 cm
Height	75 cm
Depth	38 cm
Weight	7,9 kg
Maximum exhaust temperature	110°C



HP-155.C00

Universal heating coil, fireplace and stove recuperator

Chimney pipe diameter	150 mm
Ventilator	+
Noise levels	58 dB
Maximum airflow intensity value	350 m3/h
Ventilator propulsion power consumption	24 W
Material used	straight carbon steel painted black
Width	24 cm
Height	75 cm
Depth	38 cm
Weight	10 kg
Maximum exhaust temperature	110°C



Chimney systems

Stainless and acid-resistant chimney systems have numerous advantages, with its popularity on the increase. Abiza company has years of experience in manufacturing these systems as well as assembled steel chimneys. A large machinery park allows for production of a wide range of chimney elements, such as:

- Chimney pipes
- Pipe elbows
- Tee-pipes
- Chimney caps
- Cleanouts
- Clamps and straps

Per customer request we can manufacture practically any element.

Setting the product code:

R	K	-	200 /	200
Product type R - Pipe K - Pipe elbow T - Tee-pipe D - Cap O - Pipe clamp W - Cleanout	Material K - Acid-resistant O - Galvanized S - Common steel	Construction b/d - Single walled I - Thermal isolated	Pipe diameter in mm	Dimension or type Pipe - length in cm Pipe elbow - angle in degrees Tee-pipe - angle in degrees Cap - n/a Pipe clamp - n/a

Acid-resistant



Diameter	Pipe L=1m	Pipe L=0,5m	Pipe L=0,33m	Pipe elbow 90° (adjustable)	Pipe elbow 45°	Tee-pipe 87°	Tee-pipe 45°	Cap	Pipe clamp	Cleanout
Ø 80	RK-80/100	RK-80/50	RK-80/33	KK-80/90	KK-80/45	TK-80/87	TK-80/45	DK-80	OK-80	WK-80
Ø 100	RK-100/100	RK-100/50	RK-100/33	KK-100/90	KK-100/45	TK-100/87	TK-100/45	DK-100	OK-100	WK-100
Ø 110	RK-110/100	RK-110/50	RK-110/33	KK-110/90	KK-110/45	TK-110/87	TK-110/45	DK-110	OK-110	WK-110
Ø 120	RK-120/100	RK-120/50	RK-120/33	KK-120/90	KK-120/45	TK-120/87	TK-120/45	DK-120	OK-120	WK-120
Ø 130	RK-130/100	RK-130/50	RK-130/33	KK-130/90	KK-130/45	TK-130/87	TK-130/45	DK-130	OK-130	WK-130
Ø 140	RK-140/100	RK-140/50	RK-140/33	KK-140/90	KK-140/45	TK-140/87	TK-140/45	DK-140	OK-140	WK-140
Ø 150	RK-150/100	RK-150/50	RK-150/33	KK-150/90	KK-150/45	TK-150/87	TK-150/45	DK-150	OK-150	WK-150
Ø 160	RK-160/100	RK-160/50	RK-160/33	KK-160/90	KK-160/45	TK-160/87	TK-160/45	DK-160	OK-160	WK-160
Ø 180	RK-180/100	RK-180/50	RK-180/33	KK-180/90	KK-180/45	TK-180/87	TK-180/45	DK-180	OK-180	WK-180
Ø 200	RK-200/100	RK-200/50	RK-200/33	KK-200/90	KK-200/45	TK-200/87	TK-200/45	DK-200	OK-200	WK-200
Ø 220	RK-220/100	RK-220/50	RK-220/33	KK-220/90	KK-220/45	TK-220/87	TK-220/45	DK-220	OK-220	WK-220
Ø 230	RK-230/100	RK-230/50	RK-230/33	KK-230/90	KK-230/45	TK-230/87	TK-230/45	DK-230	OK-230	WK-230
Ø 250	RK-250/100	RK-250/50	RK-250/33	KK-250/90	KK-250/45	TK-250/87	TK-250/45	DK-250	OK-250	WK-250
Ø 300	RK-300/100	RK-300/50	RK-300/33	KK-300/90	KK-300/45	TK-300/87	TK-300/45	DK-300	OK-300	WK-300
Ø 350	RK-350/100	RK-350/50	RK-350/33	KK-350/90	KK-350/45	TK-350/87	TK-350/45	DK-350	OK-350	WK-350
Ø 400	RK-400/100	RK-400/50	RK-400/33	KK-400/90	KK-400/45	TK-400/87	TK-400/45	DK-400	OK-400	WK-400
Ø 450	RK-450/100	RK-450/50	RK-450/33	KK-450/90	KK-450/45	TK-450/87	TK-450/45	DK-450	OK-450	WK-450
Ø 500	RK-500/100	RK-500/50	RK-500/33	KK-500/90	KK-500/45	TK-500/87	TK-500/45	DK-500	OK-500	WK-500

Acid-resistant thermal insulated



Diameter	Pipe L=1m	Pipe L=0,5m	Pipe L=0,33m	Pipe elbow 90°	Pipe elbow 45°	Tee-pipe 87°	Tee-pipe 45°	Cap	Pipe clamp	Cleanout
Ø 100/160	RKI-100/100	RKI-100/50	RKI-100/33	KKI-100/90	KKI-100/45	TKI-100/87	TKI-100/45	DKI-100	OK-160	WKI-100
Ø 110/180	RKI-110/100	RKI-110/50	RKI-110/33	KKI-110/90	KKI-110/45	TKI-110/87	TKI-110/45	DKI-110	OK-180	WKI-110
Ø 120/180	RKI-120/100	RKI-120/50	RKI-120/33	KKI-120/90	KKI-120/45	TKI-120/87	TKI-120/45	DKI-120	OK-180	WKI-120
Ø 130/200	RKI-130/100	RKI-130/50	RKI-130/33	KKI-130/90	KKI-130/45	TKI-130/87	TKI-130/45	DKI-130	OK-200	WKI-130
Ø 140/200	RKI-140/100	RKI-140/50	RKI-140/33	KKI-140/90	KKI-140/45	TKI-140/87	TKI-140/45	DKI-140	OK-200	WKI-140
Ø 150/220	RKI-150/100	RKI-150/50	RKI-150/33	KKI-150/90	KKI-150/45	TKI-150/87	TKI-150/45	DKI-150	OK-220	WKI-150
Ø 160/220	RKI-160/100	RKI-160/50	RKI-160/33	KKI-160/90	KKI-160/45	TKI-160/87	TKI-160/45	DKI-160	OK-220	WKI-160
Ø 180/250	RKI-180/100	RKI-180/50	RKI-180/33	KKI-180/90	KKI-180/45	TKI-180/87	TKI-180/45	DKI-180	OK-250	WKI-180
Ø 200/260	RKI-200/100	RKI-200/50	RKI-200/33	KKI-200/90	KKI-200/45	TKI-200/87	TKI-200/45	DKI-200	OK-260	WKI-200
Ø 220/280	RKI-220/100	RKI-220/50	RKI-220/33	KKI-220/90	KKI-220/45	TKI-220/87	TKI-220/45	DKI-220	OK-280	WKI-220
Ø 230/300	RKI-230/100	RKI-230/50	RKI-230/33	KKI-230/90	KKI-230/45	TKI-230/87	TKI-230/45	DKI-230	OK-300	WKI-230
Ø 250/320	RKI-250/100	RKI-250/50	RKI-250/33	KKI-250/90	KKI-250/45	TKI-250/87	TKI-250/45	DKI-250	OK-320	WKI-250
Ø 300/360	RKI-300/100	RKI-300/50	RKI-300/33	KKI-300/90	KKI-300/45	TKI-300/87	TKI-300/45	DKI-300	OK-360	WKI-300
Ø 350/420	RKI-350/100	RKI-350/50	RKI-350/33	KKI-350/90	KKI-350/45	TKI-350/87	TKI-350/45	-	OK-420	WKI-350
Ø 400/460	RKI-400/100	RKI-400/50	RKI-400/33	KKI-400/90	KKI-400/45	TKI-400/87	TKI-400/45	-	-	WKI-400
Ø 450/520	RKI-450/100	RKI-450/50	RKI-450/33	KKI-450/90	KKI-450/45	TKI-450/87	TKI-450/45	-	-	WKI-450
Ø 500/560	RKI-500/100	RKI-500/50	RKI-500/33	KKI-500/90	KKI-500/45	TKI-500/87	TKI-500/45	-	-	WKI-500

Technical specifications

Oil heaters

PARAMETER	HP105	HP105.F	HP115	HP125 / HP125.O	HP 135	HP145 / HP145.R	HP145-WH / HP145.R-WH
Minimum thermal power	20 kW	20 kW	20 kW	29 kW	29 kW	39 kW	39 kW
Maximum thermal power	29 kW	29 kW	29 kW	39 kW	42 kW	55 kW	55 kW
Efficiency	77,1 %	77,1 %	75,8 %	76,1 %	85 %	76,4 %	76,4 %
Minimum fuel consumption	1,56 kg/h	1,56 kg/h	1,56 kg/h	2,29 kg/h	2 kg/h	3,13 kg/h	3,13 kg/h
Maximum fuel consumption	2,29 kg/h	2,29 kg/h	2,29 kg/h	3,13 kg/h	3 kg/h	4,38 kg/h	4,38 kg/h
Fuel tank capacity	50 l.	50 l.	50l.	50l.	50l.	50 l.	50 l.
Supply voltage	230V 50Hz	230V 50Hz	230V 50Hz	230V 50Hz	230V 50Hz	230V 50Hz	230V 50Hz
Current consumption	0,1 A	0,4 A	0,9 A	0,9 A	1,0 A	1,6 A	1,6 A
Minimum flue draught	16,5 Pa	16,5 Pa	16,5 Pa	16,5 Pa	17,5 Pa	19,8 Pa	19,8 Pa
Temperature of flue gas	293 °C	293 °C	342 °C	377 °C	450 °C	349 °C	349 °C
Fume stream mass	27,8 g/s	27,8 g/s	24,5 g/s	22,5 g/s	23 g/s	24,9 g/s	24,9 g/s
Heated air flow	-	-	600m ³ /h	1000m ³ /h	1000m ³ /h	2660m ³ /h	2660m ³ /h
Dimensions (H/W/D) [cm]	115/54/106	123/54/106	137/54/106	137/54/121	137/54/121	168/61/123	168/77/123
Device weight	60 kg	60 kg	71 kg	74 kg / 72 kg	83 kg	112 kg	117 kg
Shipping dimensions (H/W/D) [cm]	86/60/160	86/60/160	86/60/160	86/60/160	86/60/160	120/70/150	120/70/150
Shipping weight	66 kg	64 kg	77 kg	81 kg / 79 kg	90 kg	125 kg	125 kg
Coil power	-	-	-	-	-	-	6-8 kW

Recuperators

PARAMETER	HP-135.C50	HP-145.C00	HP-135.C00	HP-155.C00
Chimney pipe diameter	150 mm	150 mm	150 mm	150 mm
Ventilator	+	+	+	+
Noise levels	60 dB	61 dB	61 dB	58 dB
Maximum airflow intensity value	230 m3/h	320 m3/h	320 m3/h	350 m3/h
Ventilator propulsion power consumption	80 W	80 W	80 W	24 W
Material used	stainless steel	stainless steel	stainless steel	straight carbon steel painted black
Width	21 cm	24,5 cm	24 cm	24 cm
Height	65 cm	63 cm	75 cm	75 cm
Depth	37 cm	45,5 cm	38 cm	38 cm
Weight	9,8 kg	9,1 kg	7,9 kg	10 kg
Maximum exhaust temperature	110°C	110°C	110°C	110°C

Notes

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