



Designer-style island canopy hood

IKD 1157.1

Designer-style chimney hood

KD 957.1

Service Manual: H5-60-77-01

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1. General notes

The cooker hood needs a sufficient and correct supply of air to achieve an optimum effect and maximum ventilation efficiency. If not enough fresh air is supplied, the speed of the fan motor increases, the air throughput decreases and the noise level rises.

When the filter mats are saturated the air throughput of the cooker hood decreases and the vapours are only cleaned to an inadequate extent.

The minimum distance between the edge of the hood (IKD 1157.1 / KD 957.1) and the cooker must be at least 650 mm for gas cookers and at least 500 mm for electric cookers.


The cooker hood is designed for the extraction of the emerging vapours. The cooker hood is delivered in exhaust air operation. If the extraction to the exterior is not possible, activated carbon filters have to be inserted for the circulating air operation.

2. Electronic controls

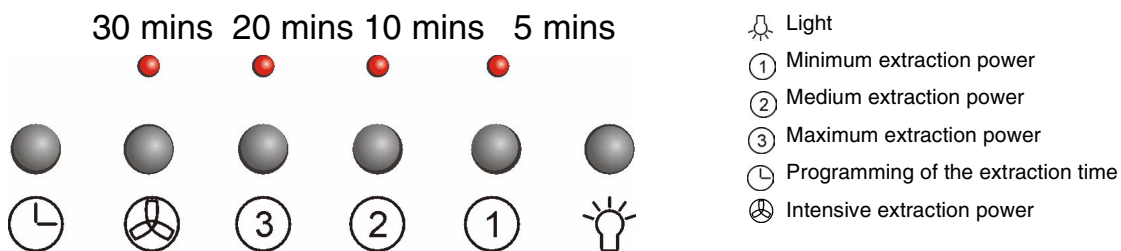


By pressing lightly the control keys on the front the desired extraction power can be set.

The control lights above the keys indicate the set extraction power of the cooker hood.



The lighting is switched on or off by slightly pressing .

3. Programming the air extraction time



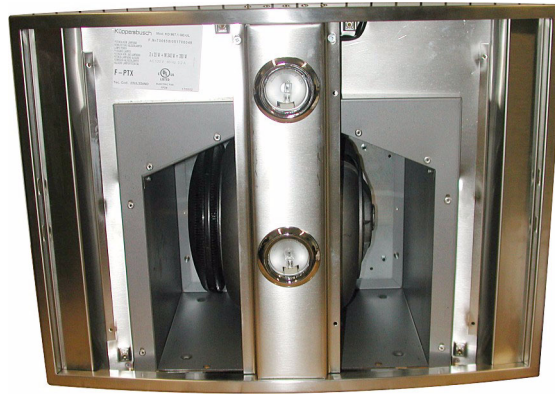
The factory setting for the extraction time is 10 minutes. This time is activated when the control key for the desired power setting is pressed for 2 seconds. The according control light flashes and stops flashing again after 10 minutes. The cooker hood switches off automatically.

To set another extraction time, proceed as follows:

1. Press lightly the  control key.
2. Select the desired extraction time on the scale with 5, 10, 20 and 30 minutes and confirm the with the according control key. The control light flashes and indicates the programmed extraction time. Confirm by once again pressing the  control key.
3. Select the desired extraction power, it will be switched on for the programmed extraction time.

4. Lighting

The lighting can be used at any time even when the fan is switched off.



5. Metal grease filters



Both grease filters are dismantled by pressing the respective lock downwards.

6. Charcoal filter

For the recirculating air mode you need two activated charcoal filters.

- When the filter effect is run-down (depending on use up to 12 months) they have to be replaced.



Dismantling and installation of the activated charcoal filters

After dismantling the grease filters attach the active charcoal filters to the aspiration hole of the motor. To do so, adjust the Bayonett fitting on the motor casing and turn the filters in order to fasten them as shown in the illustration.

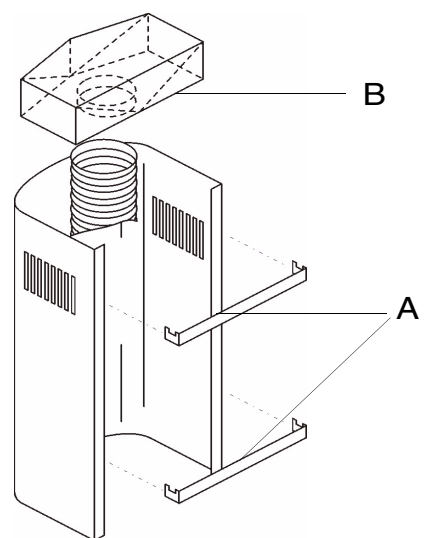


7. Installing the recirculating air diverter

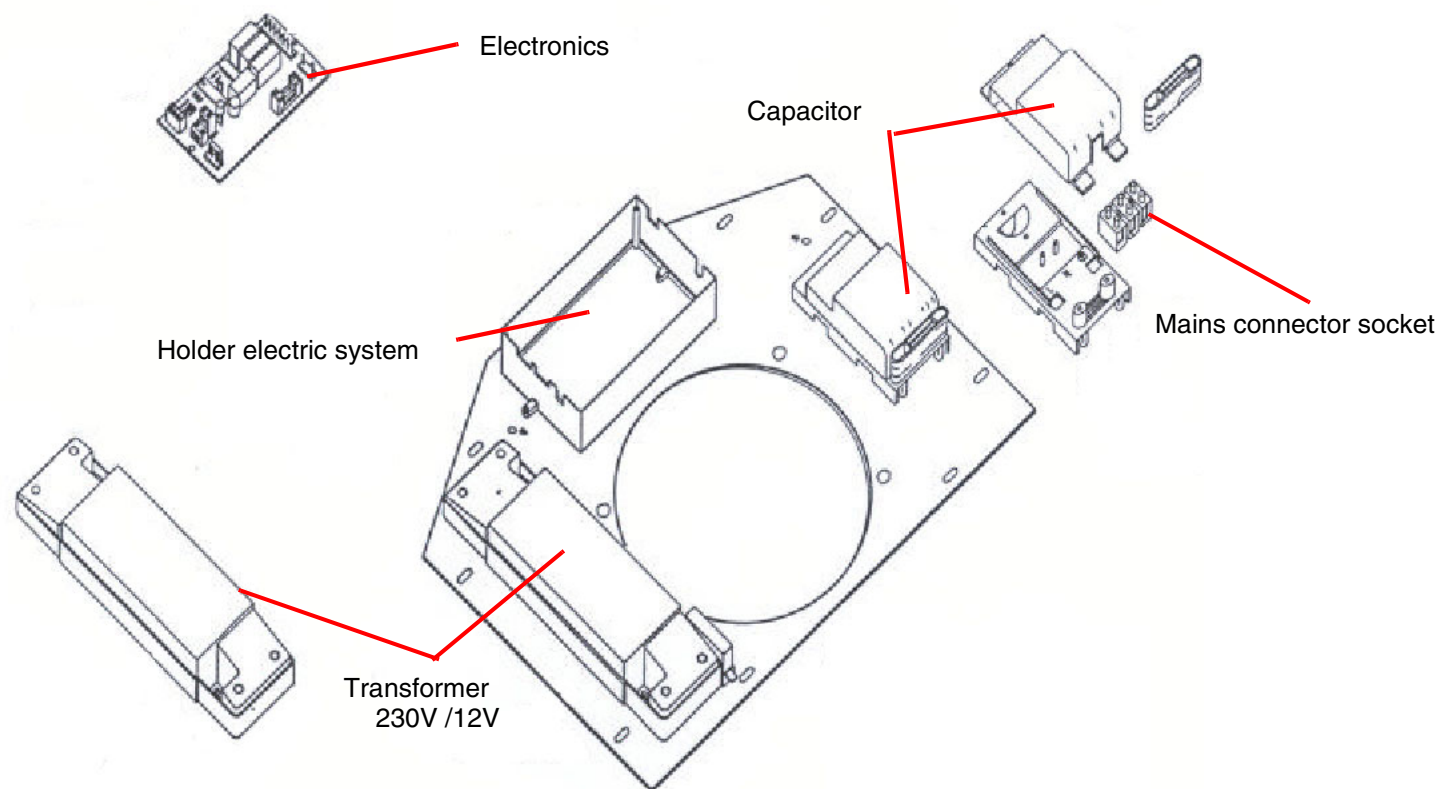
In the case of the recirculating air mode, a recirculating air diverter must be installed so that the cooking fumes extracted can escape through the ventilation openings on the side of the upper chimney.

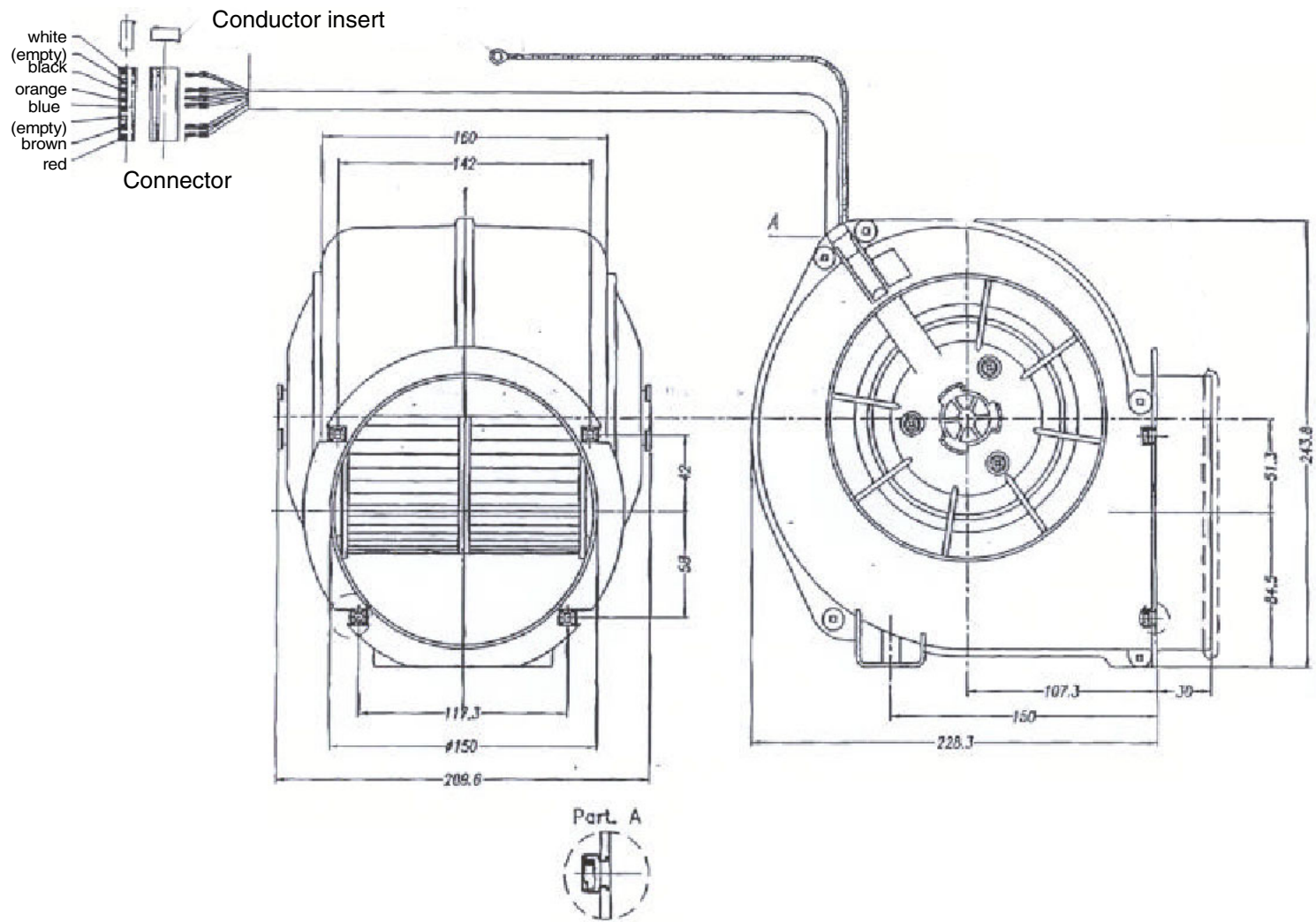
Subsequent to installing the upper chimney mounting support (A), attach the recirculating air diverter (B) with screws as shown in the illustration.

Then connect the recirculating air diverter to a pipe (diameter of 150 mm) and to the motor outlet. Hose clips should be used for connecting.



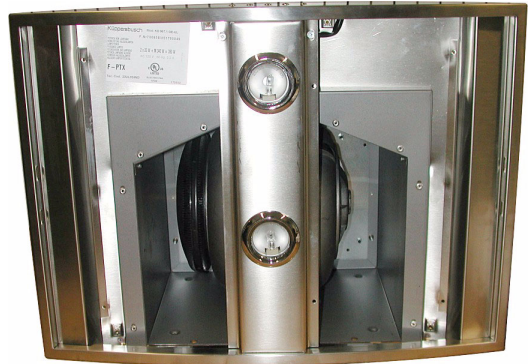
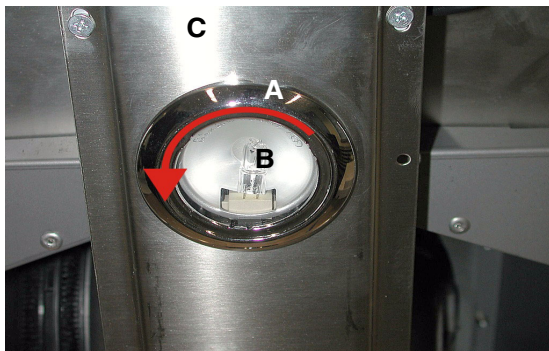
8. Electrical functional components





9. Accessing components

9.1 Replacing the halogen lighting and the lamp body



Remove part (A) by turning it as shown in the illustration.



Remove the lamp (B) from its mounting support. On installing a new halogen lamp, do not touch the glass bulb with your bare hands. The maximum lamp power is 20W. We recommend that you use a dry cloth in order to protect the lamp.

Replace part (A) by turning it, so that it clicks into place as shown in the illustration.

In order to demount the entire body of the lamp the grease filters must firstly be removed. Then remove component (A) and press the two plastic flaps of the lower part of the lamp together above the bar (C) and, pressing lightly downwards, release the lower part of the lamp and remove it.

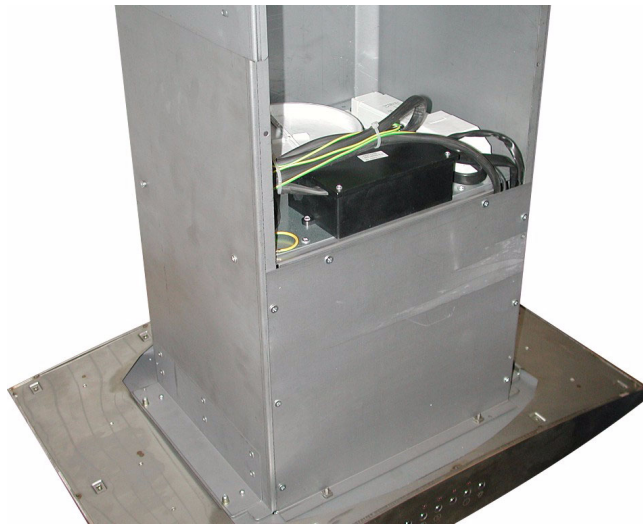
9.2 Demounting the switch unit

If you loosen the two front metal screws in the bar (C) you will be able to remove the switch unit on the side above the bar.



9.3 Accessing the mains supply, transformer and electronics unit

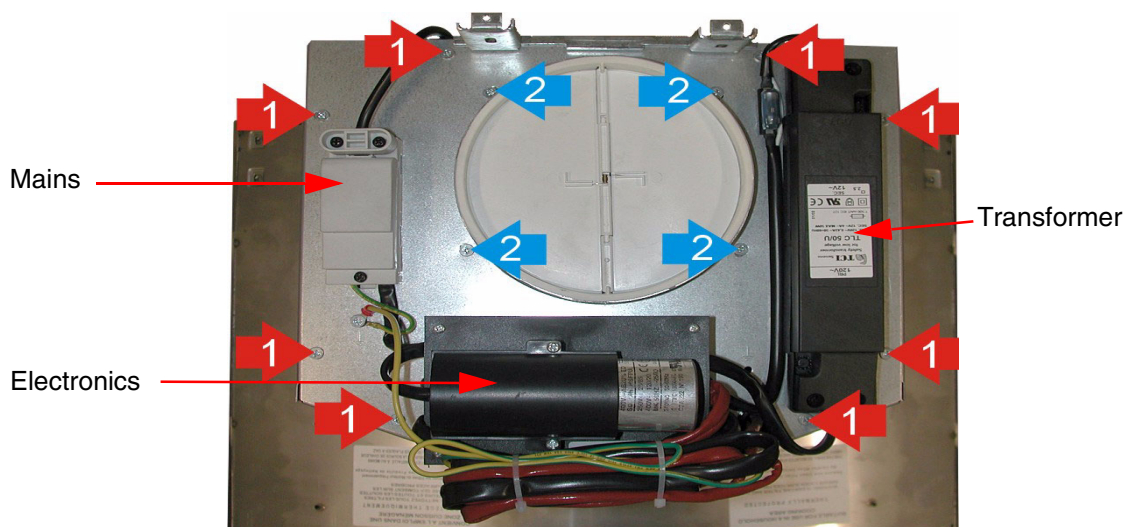
Once the lower chimney has been removed all three components are accessible.



9.4 Demounting the motor and the fan wheel from the KD 957.1

In order to demount the motor (KD 957.1) the hood should be taken off the wall. To do so, remove the upper chimney and the lower chimney, take out the grease filters and remove both of the safety screws on the back wall of the hood body inside the suction shaft. Remove the extraction hose on the motor support and pull out the non-return valve. Then loosen the screws on the mounting brackets, gently press the hood upwards, remove it from the wall mounting support and pull it out towards the front. Place the hood on its back on a scrape-resistant surface. Remove the switch unit as indicated in 9.2, remove the halogen lamps completely as described in 9.1. Loosen the screws (1) and then pull out the mounting plate with the motor and the cables (switch and halogen lamps) upwards. Now loosen the screws (2) and remove the motor with its casing from the mounting plate. Remove the screws from the motor casing. The screw on the fan wheel can then be removed and the motor or the fan wheel can be replaced.

The installation procedure is carried out in reverse.

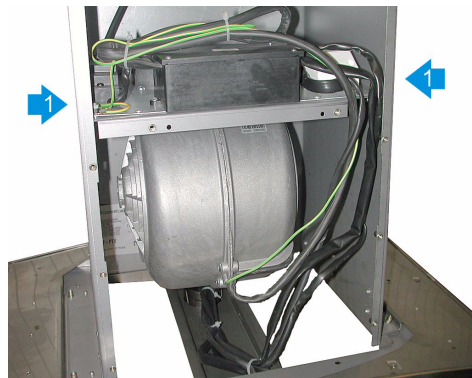


9.5 Demounting the motor and the fan wheel of the IKD 1157.1

In order to demount the motor, the lower chimney must be pushed upwards, subsequently ensuring that it does not slip down (risk of injury). Loosen the 8 screws of the front plate and then remove the grease filters. Now loosen the two screws at the front and remove the front plate. After removing the front plate, loosen the 4 screws (2 on the left and 2 on the right) of the support.

Then remove the support plate for the motor with the mains supply box, the electronics unit and the halogen transformer by means of tilting it to the side. Loosen the 4 screws and remove the motor from the support plate. Finally remove the 6 screws of the motor casing in order to be able to replace the motor or the fan wheel.

The installation procedure is carried out in reverse.



10. Technical data

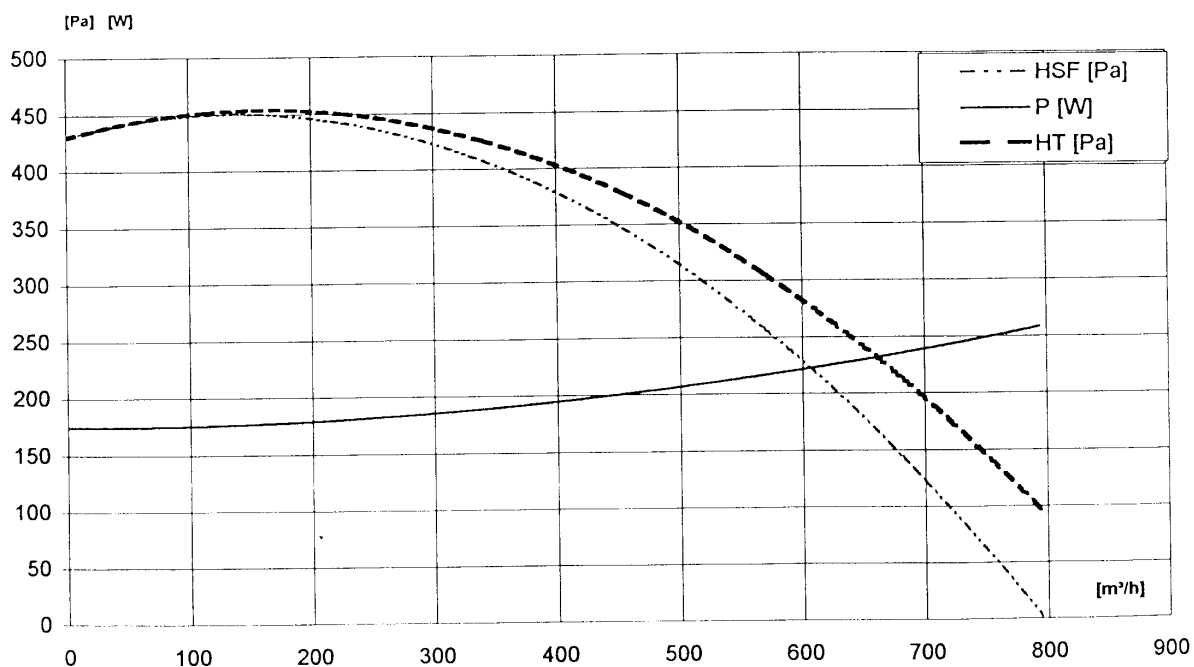
Voltage/Frequence	V/Hz	240 / 50
Air volume - outlet	m³/h - Ø mm	850 +/-5% - 150
Nominal power	W	250
Loadless power max. speed	W	/
Loadless current max. speed	A	/
Power consumption max. speed	W	255 ± 10%
Power consumption 3° / 2° / 1° (min) speed	W	177 / 140 / 112 ±10%
Operating current max speed	A	1.08 ± 10%
Operating current 3° / 2° / 1° (min) speed	A	0.74 / 0.59 / 0.47 ± 10%
Max. speed	rpm	1700 ± 100
Speed 3° / 2° / 1° (min) speed	rpm	1200 / 1000 / 800 ± 10%
Max ΔT motor	°C	115
Max. temp. of operating time at locked rotor	°C	190
Motor protection	°C	140
Protection glass		I
Insulation glass		F
Usage		continuous
Capacitor	µF	6.3
Admissible ambient temperature	°C	40
Voltage take-off	V	190
Modality Test Execution Reference rules: EN 60335-1; EN 60335-2 test performed at 240V~50Hz; fan S2000 at warm condition		RES. (OHM) ± 5% at 20°C
		4 - Intensive power = 68
		3 - Maximum power = 109
		2 - Medium power = 130
		1 - Minimum power = 151

11. Air Volume Test

Ambient temperature 27°C	Air pressure 758 mmHg	Exhaust Ø 150 mm
Total pressure 439 Pa	Air quantity (Q) 785 m³/h	Q max. measured 795 m³/h
Efficiency 71%	Power (W) 260 W	RPM 1720

VALUES						
Q [m³/h]	V (m/sec.)	HT [Pa]	HDF [Pa]	HSF [Pa]	P [W]	RPM (U/1)
0	0	439	0.00	439.00	172	2811
632	10	407	61.19	345.81	284	2682
392	6	365	22.76	342.24	203	2501
536	8	297	42.51	254.49	221	2296
646	10	222	61.75	160.25	238	2085
707	11	161	73.85	87.15	249	1911
757	12	118	84.60	33.40	256	1777
795	13	81	93.36	-12.36	260	1670

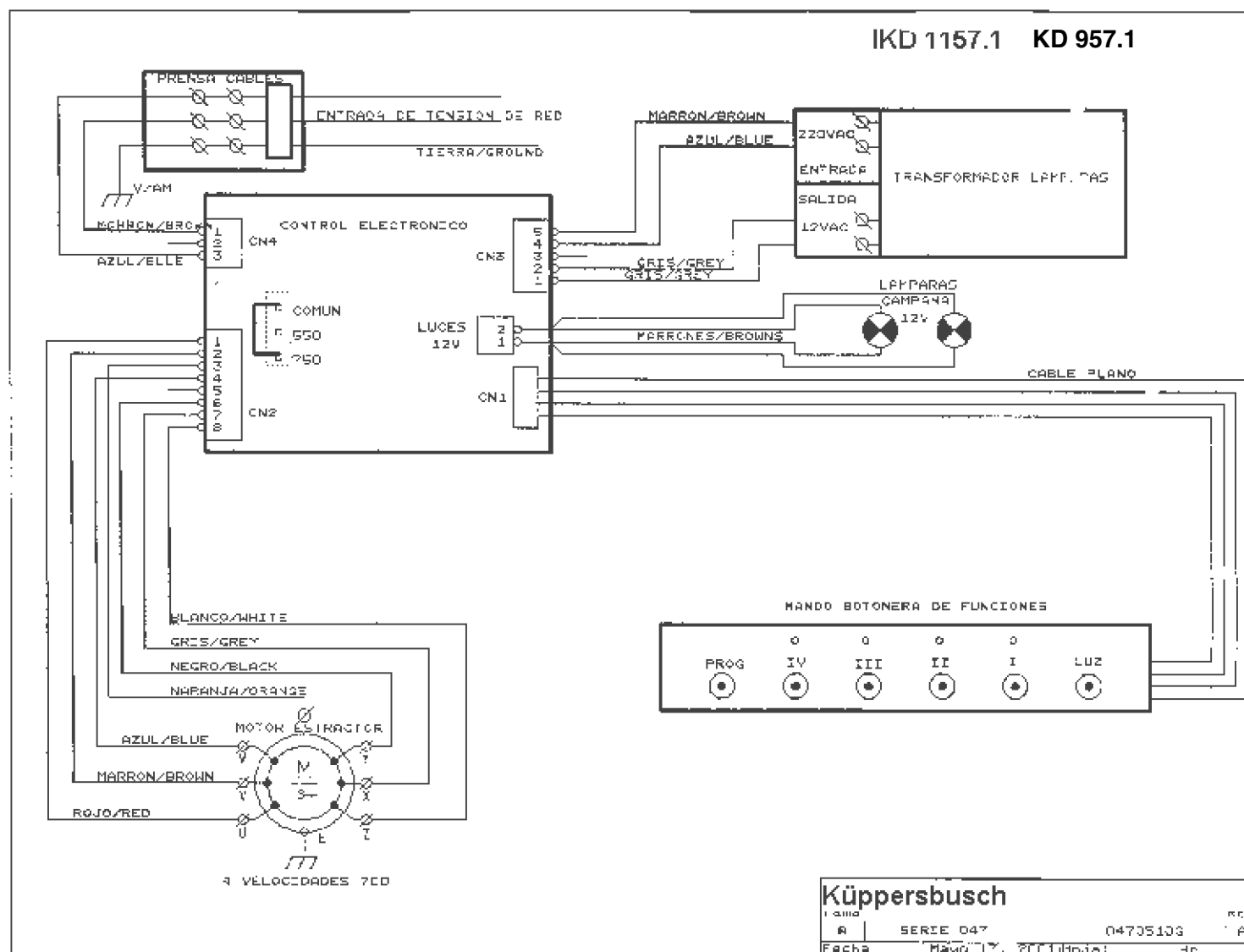
PRESSURE / AIR FLOW GRAPH

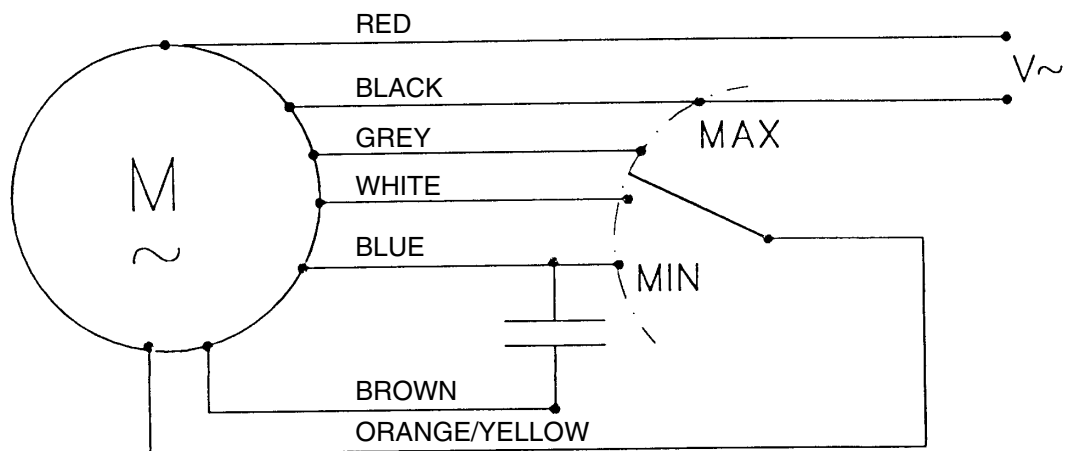
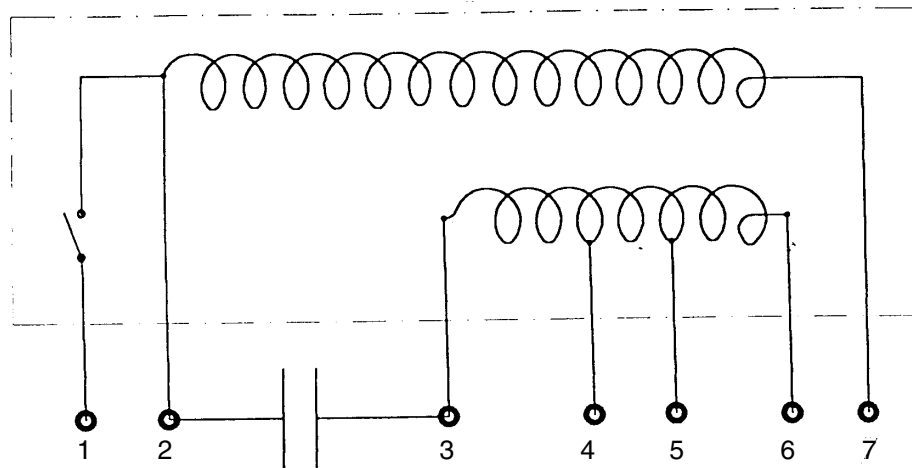


Legend

Prensa cables	=	Cable box
Entrada de tensión de red	=	Mains connection
Control electrónico	=	Electronic control
Común	=	Common
Luces	=	Lamps
Motor	=	Motor
4 Velocidades	=	4 speeds
Transformador	=	Transformer
Cable plano	=	Flat cable
Mando botonera de funciones	=	Control panel
Entrada	=	Entry
Salida	=	Exit

12. Wiring diagrams





- 1 = RED
- 2 = BROWN
- 3 = BLUE
- 4 = WHITE
- 5 = GREY
- 6 = BLACK
- 7 = ORANGE

- RED -- BLACK = V~
- ORANGE - BLUE = minimal speed
- ORANGE - WHITE = 2nd speed
- ORANGE - GREY = 3rd speed
- ORANGE - BLACK = maximum speed