TECHNICAL DATA SHEET

ROOF HOOD, GLAK

Product Description

The roof hoods, type GLAK, are an architectural finish to exhaust on roofs.

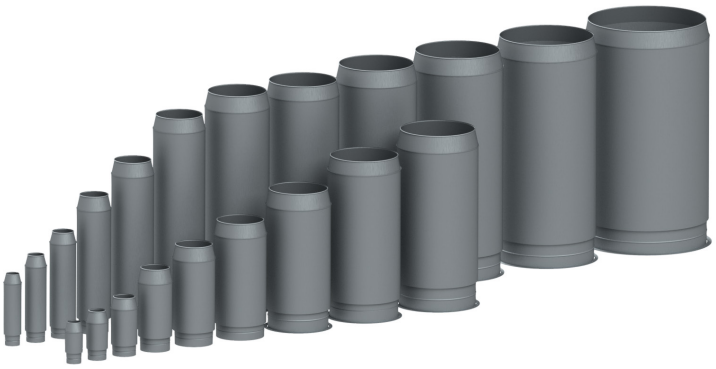
The hood is suitable for both comfort and process/industrial ventilation, and with its noiseless design makes it particularly suitable for areas where there is a great demands to the environment and densely populated areas.

The design of the hood ensures that the air is effectively exhausted with an upward jet. This prevents precipitation of the contaminate air, meaning that soiling of the roof around the hood is also avoided. The design ensures great throw height at a very low pressure drop, which reduces air resistance, energy consumption and operating costs if the velocity of the hood is dimensioned according to recommended instructions (see recommended velocities in this data sheet).

The Roof Hoods

The hoods are offered in the following dimensions: Ø160 / Ø200 / Ø250 / Ø315 / Ø400 / Ø500 / Ø630 / Ø710 / Ø800 / Ø900 / Ø1000 / Ø1250 (Ø160-Ø500: Flange can be selected. Ø630 - Ø1250: Delivered with flange as standard). All hoods are fitted as standard with a female coupling (male coupling can be selected). Ø160 - Ø800 are offered in two heights, H1 and H2, the height of the individual roof hoods can be found in the measurement sketch in this data sheet.

The hoods are made of galvanised steel, which is resistant to common corrosion effects in comfort or process/industrial ventilation. We also offer hoods in stainless steel and according to customer wishes.



Construction, Velocity and Protection

The ventilation hoods are made up of an inner pipe, with a female connection at the bottom and with a net mounted in the pipe. For protection against rain and snow, the hood is fitted with a outer pipe, which is offered in either height H1 (short pipe) or H2 (long pipe).

When the system is in operation, there is 100% protection against occurrence of precipitation, based on experience (provided that the recommended velocity are adhere to. See recommended velocities in this data sheet).

When the system is out of operation, obtains a protection rate of 90% with H2 (long pipe), based on experience.

When the system is out of operation, obtains a protection rate of 75% with H1 (short pipe), based on experience.

To increase the throw length, the hood is completed with a narrowing at the top. The throw length corresponds approximately to the velocity in the hood. As an example: If there is a velocity of 4 m/s through the hood, the throw length is approx. 4 meters. The great throw height and the very low pressure loss are achieved by the fact that there are no annoying obstacles in the hood.

MATERIAL LIST	
Pipe	Galvanised steel
Net	Galvanised steel
Connection	Female coupling made of galvanised steel
Flange*	Galvanised steel

*Flange is mounted as standard on Ø630 - Ø1250. Flange can be selected for Ø160 - Ø500.

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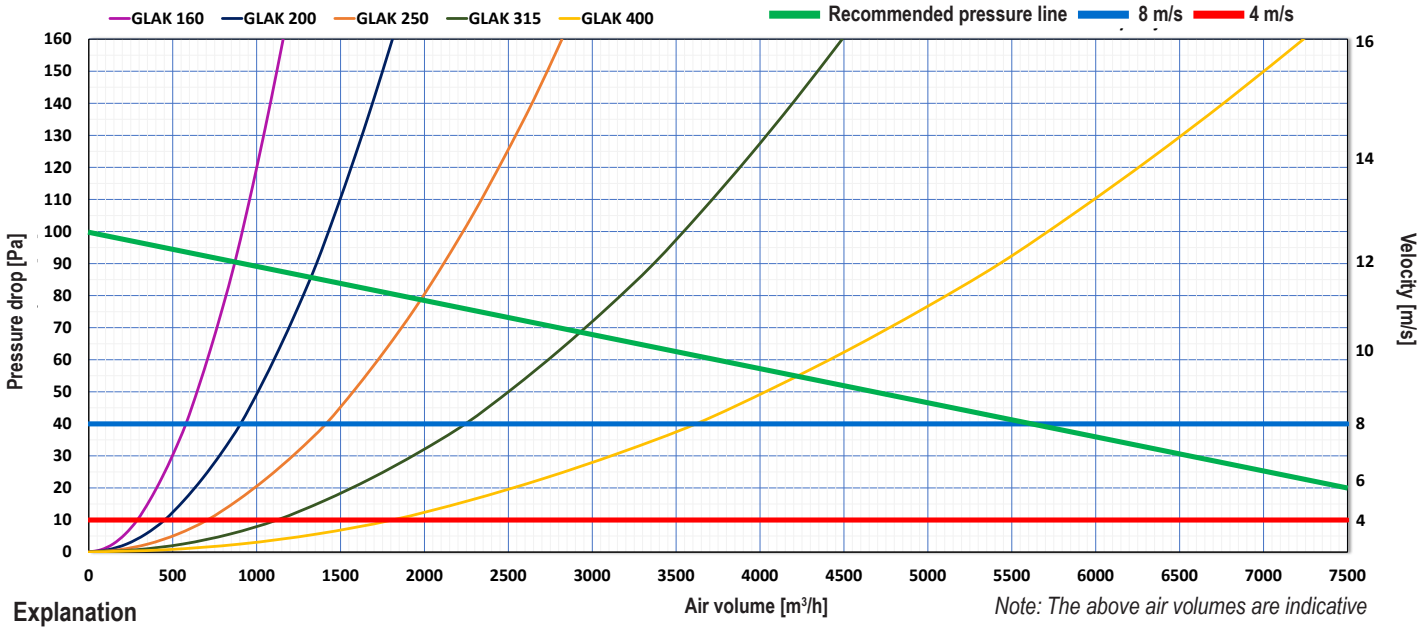
Velocity and Sound

Roof Hood, GLAK - Ø160 to Ø400

Velocity



Note: The above air volumes are indicative

Explanation

Recommended pressure line is due to noise. JRV recommends staying below the line to reduce noise and energy consumption.

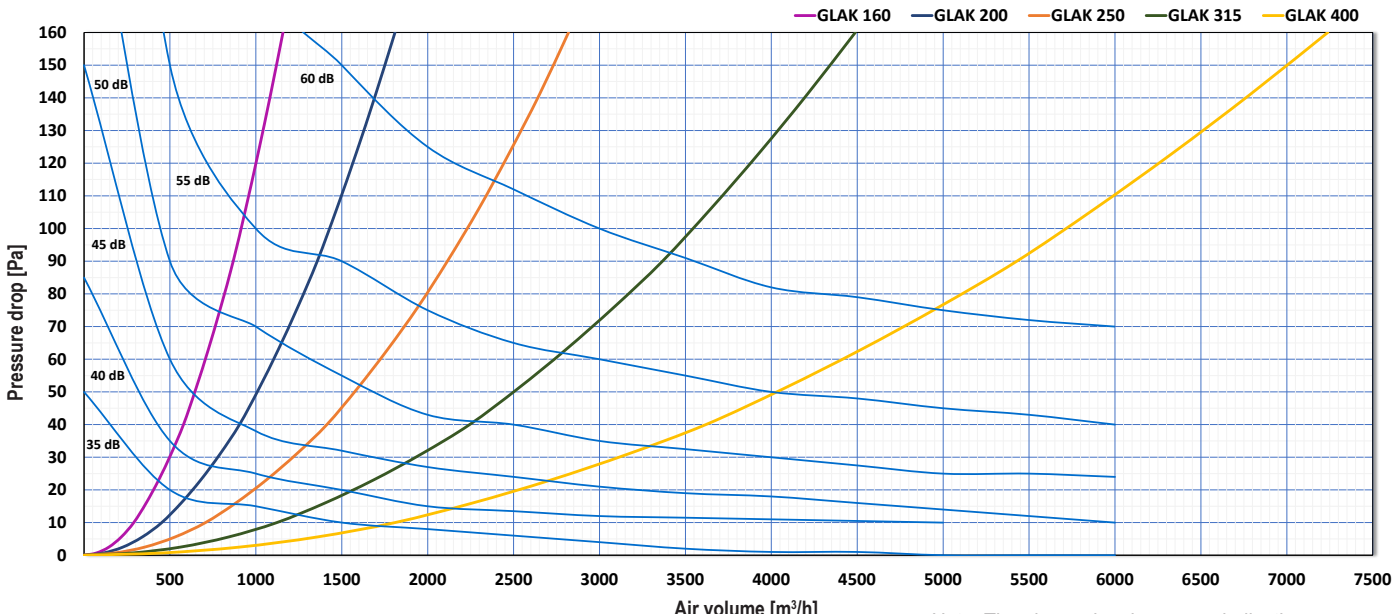
GLAK H1: JRV recommends a minimum velocity of 8.0 m/s through the pipe to ensure against precipitation, based on experience (if velocity is below the line, it is recommended to establish precipitation collection and drainage from there).

GLAK H2: JRV recommends a minimum velocity of 4.0 m/s through the pipe to ensure against precipitation, based on experience (if velocity is below the line, it is recommended to establish precipitation collection and drainage from there).

Note: For industry and residential areas, there must be a greater focus on noise.

Sound

The curve is indicated in sound power L_{WA} (dB)



Note: The above air volumes are indicative

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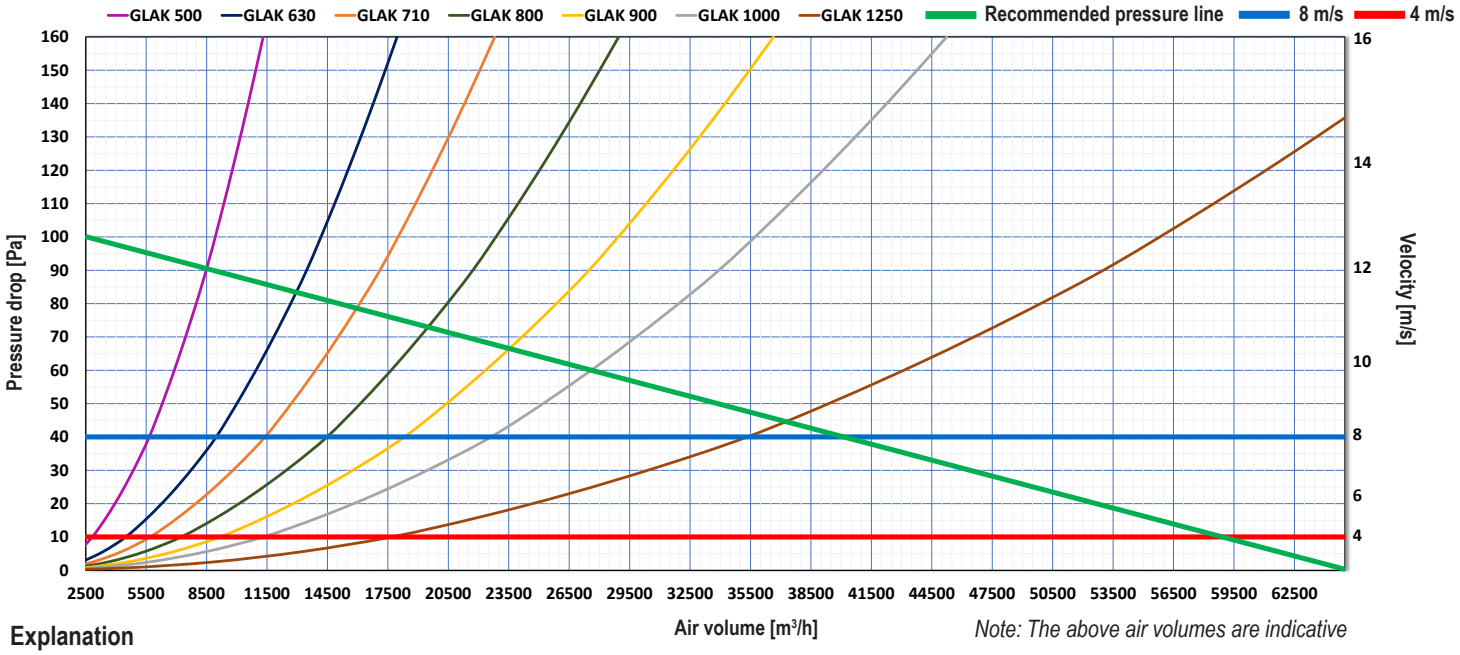
Velocity and Sound

Roof Hood, GLAK - Ø500 to Ø1250

Velocity



Note: The above air volumes are indicative

Explanation

Recommended pressure line is due to noise. JRV recommends staying below the line to reduce noise and energy consumption.

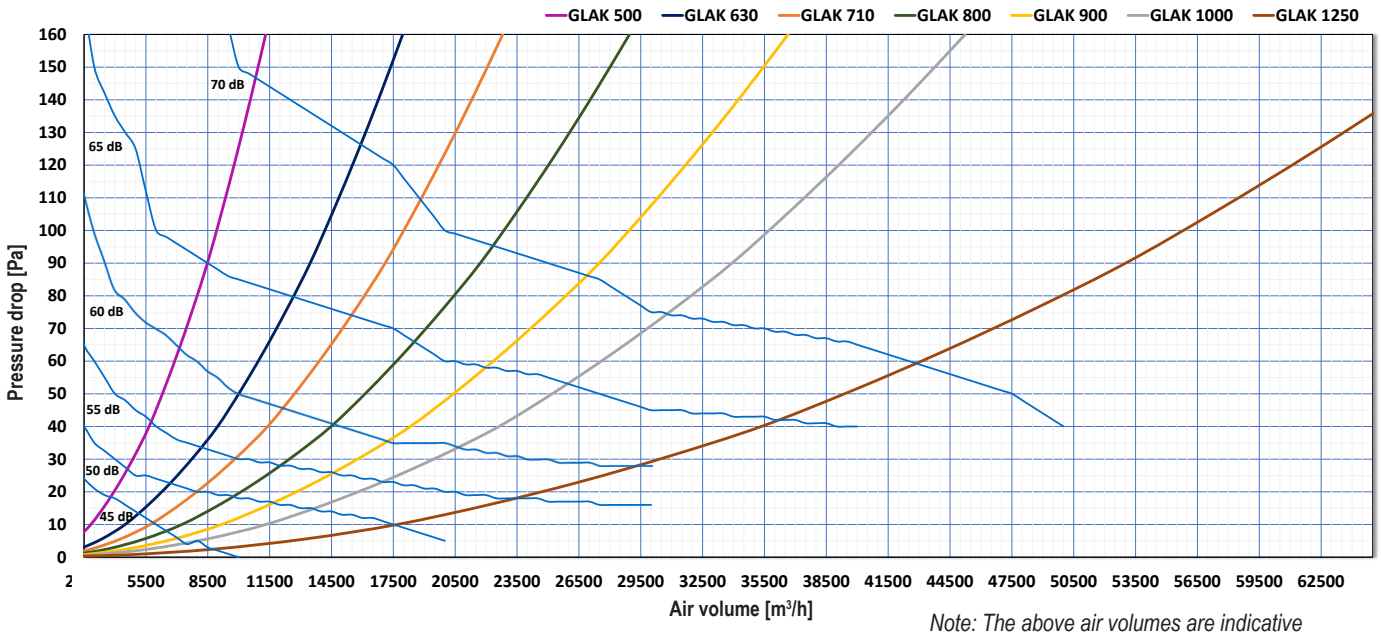
GLAK H1: JRV recommends a minimum velocity of 8.0 m/s through the pipe to ensure against precipitation, based on experience (if velocity is below the line, it is recommended to establish precipitation collection and drainage from there).

GLAK H2: JRV recommends a minimum velocity of 4.0 m/s through the pipe to ensure against precipitation, based on experience (if velocity is below the line, it is recommended to establish precipitation collection and drainage from there).

Note: For industry and residential areas, there must be a greater focus on noise.

Sound

The curve is indicated in sound power L_{WA} (dB)



Note: The above air volumes are indicative

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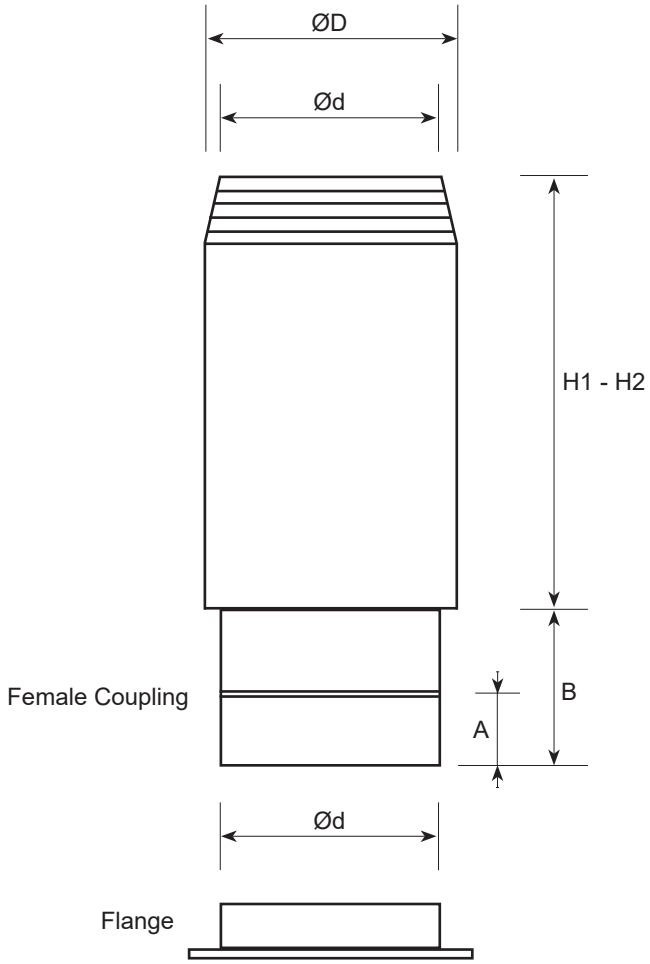
Dimension Sketch

Roof Hood, GLAK



DIMENSION [MM]						WEIGHT [KG]	
Ød	ØD	A	B	H1	H2	H1	H2
Ø160	185	50	115	320	640	4	6
Ø200	225	50	115	400	800	5	8
Ø250	275	50	115	500	1000	7	10
Ø315	355	80	150	720	1300	8	13
Ø400	440	80	150	900	1600	15	23
Ø500	540	80	150	1080	2000	20	33
Ø630	670	-	200	1260	2100	36	50
Ø710	750	-	200	1500	2100	49	59
Ø800	840	-	250	1600	2100	54	64
Ø900	940	-	250	-	2100	-	72
Ø1000	1040	-	250	-	2100	-	79
Ø1250		-	250	-	2100	-	100

Note:
Ø100 - Ø500: Flange can be selected
Ø630 - Ø1250: Delivered with flange as standard

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