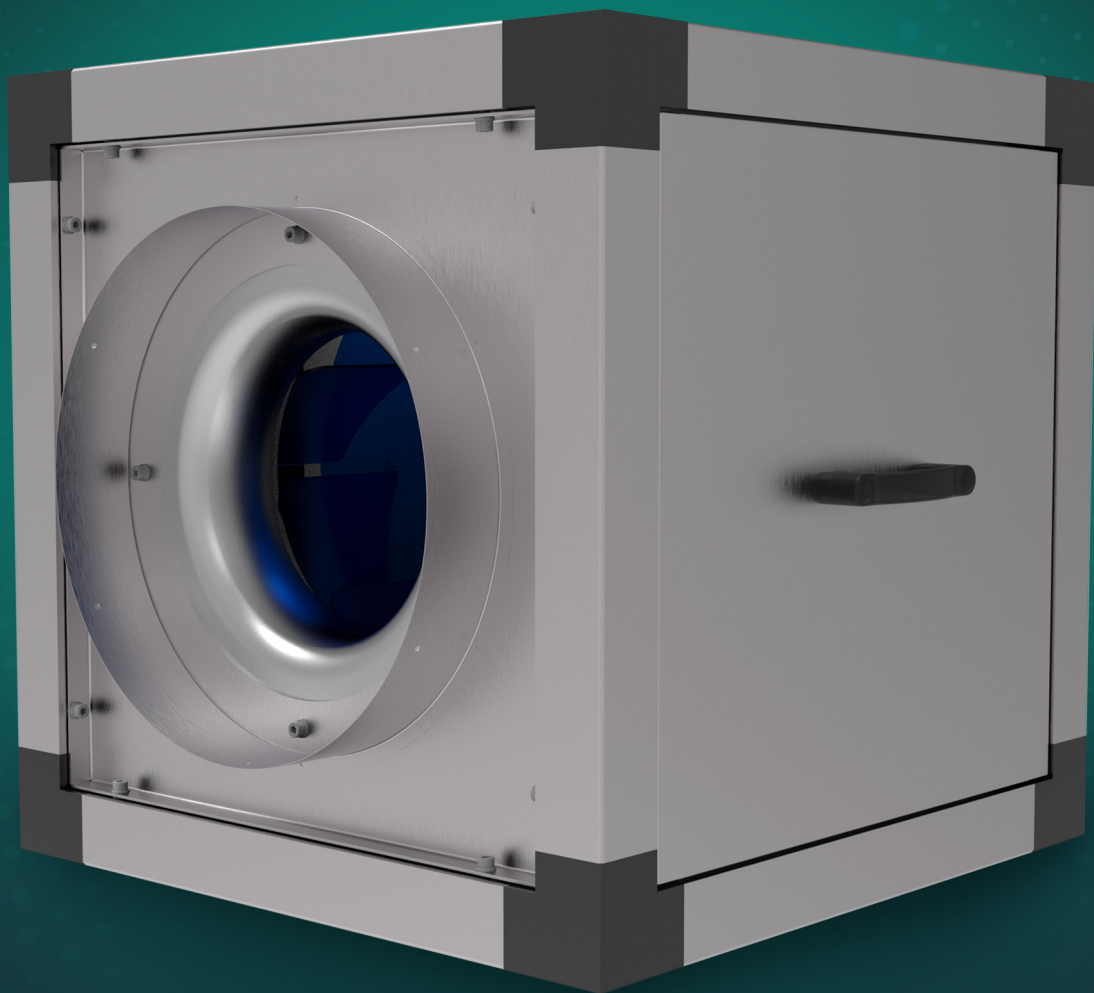
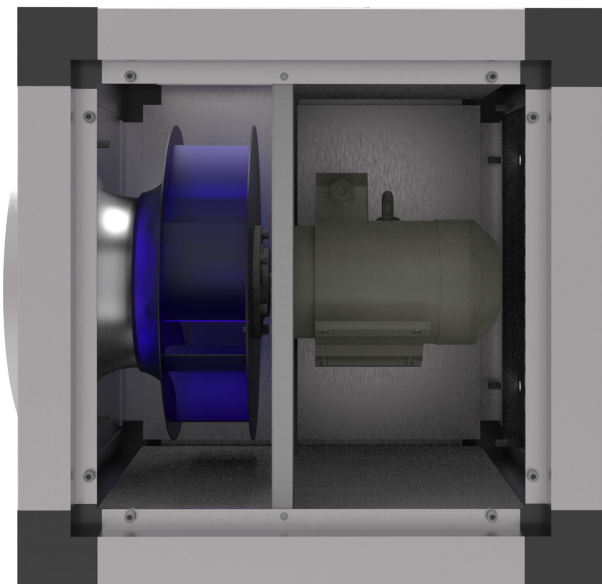




KFS BOX

Kitchen fan





PURPOSE:

The fans are designed for moving air and other non-explosive gas mixtures whose aggressiveness toward carbon steel of ordinary quality is not higher than that of air, with a temperature of up to +120°C, and sticky substances that do not contain fibrous and abrasive materials, with dust and other solid particle content not exceeding 100 mg/m³.

- ▶ Fans are used for connection to the ventilation duct by installing flexible connectors.
- ▶ Fans with side openings can be used for outdoor installation.
- ▶ Outdoor installation requires a protective cover and motor shielding.

DESIGN AND OPERATING PRINCIPLES OF FANS

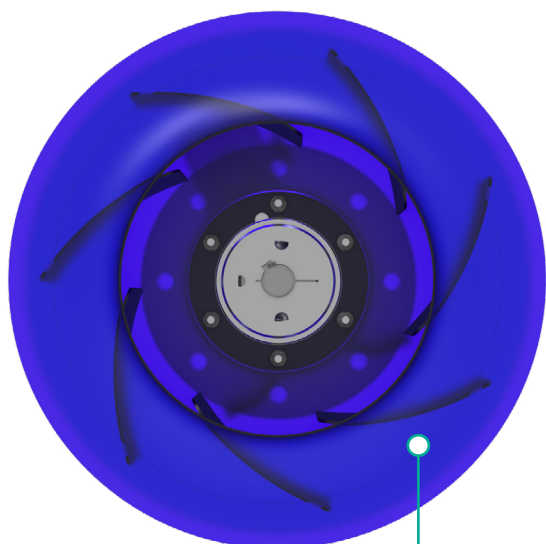
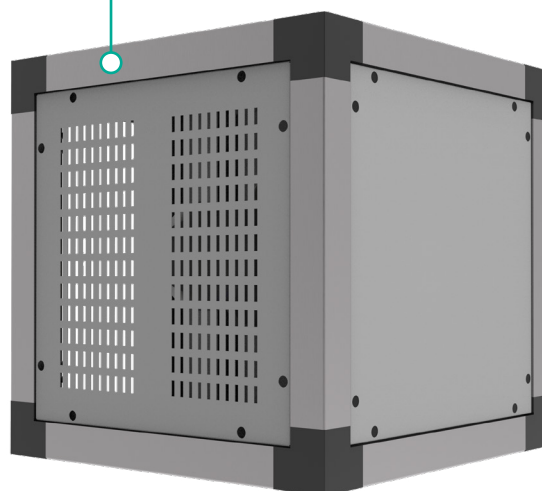
HOUSING

The outer shell of the fan housing is formed by panels filled with **mineral wool**.

Structural rigidity is achieved thanks to the profile frame, which is connected using **nylon corners**.

Nylon corners connect the frame internally via guides and grooves in the inner cavity of the frame. They are secured to the frame with a 3.5×5 mm threaded element.

The gaps between the panels and frame are sealed with a polyurethane gasket and fixed to the structure using an M6 threaded connection bolt and a corresponding rivet nut. The outer connection is covered with a plug.



FAN AND MOTOR

Inside the fan is a diffuser panel, behind which the diffuser and the impeller connected to the motor are located.

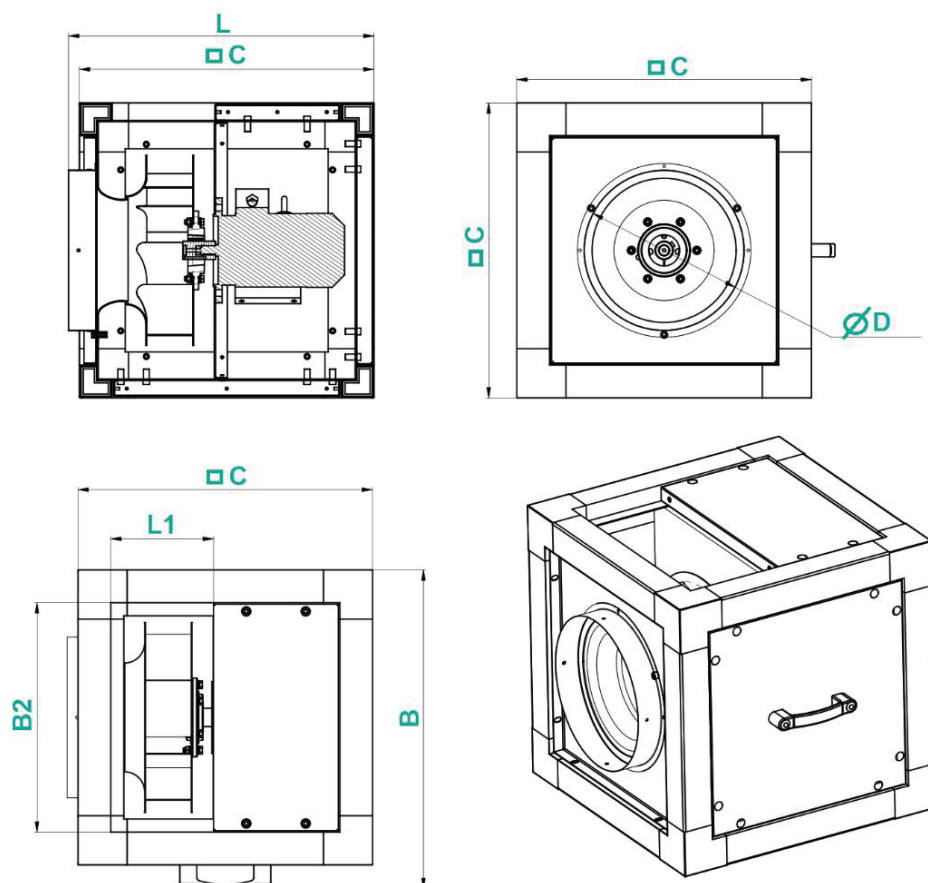
The impeller is mounted directly on the external rotor of the motor.

The motor is directly fixed to the support panel and covered with a partition, thereby isolating it from the airflow.

The operating principle of the fan involves moving the gas-air mixture by transferring energy from the impeller. The intake flow passes through the diffuser directly to the impeller and, through the discharge opening, enters the ventilation system.

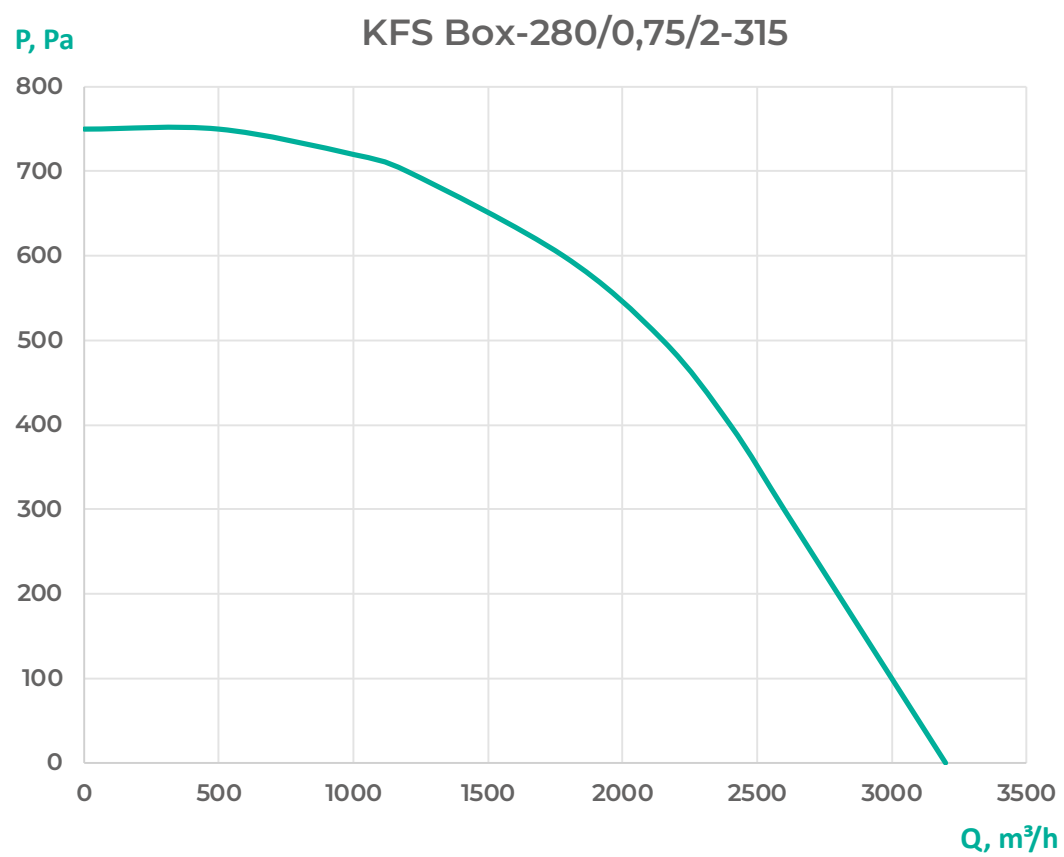
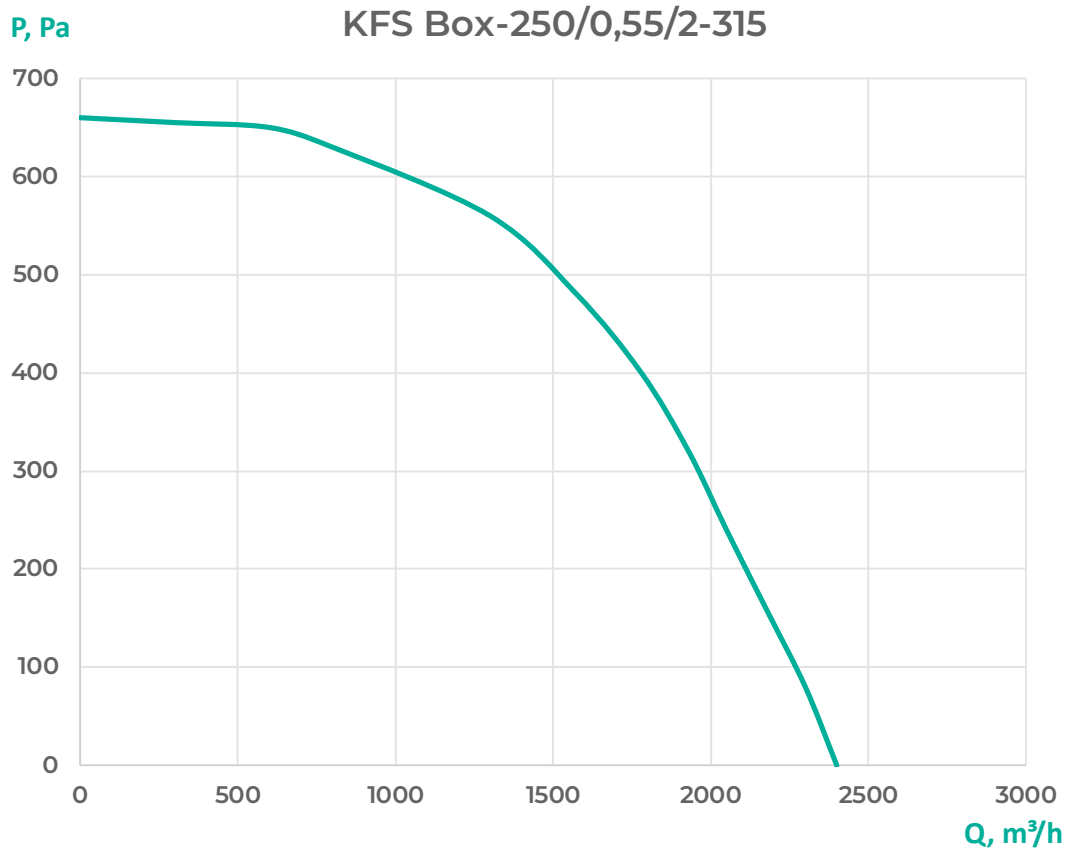
DEVICE STRUCTURE, OVERALL AND CONNECTION DIMENSIONS OF FANS

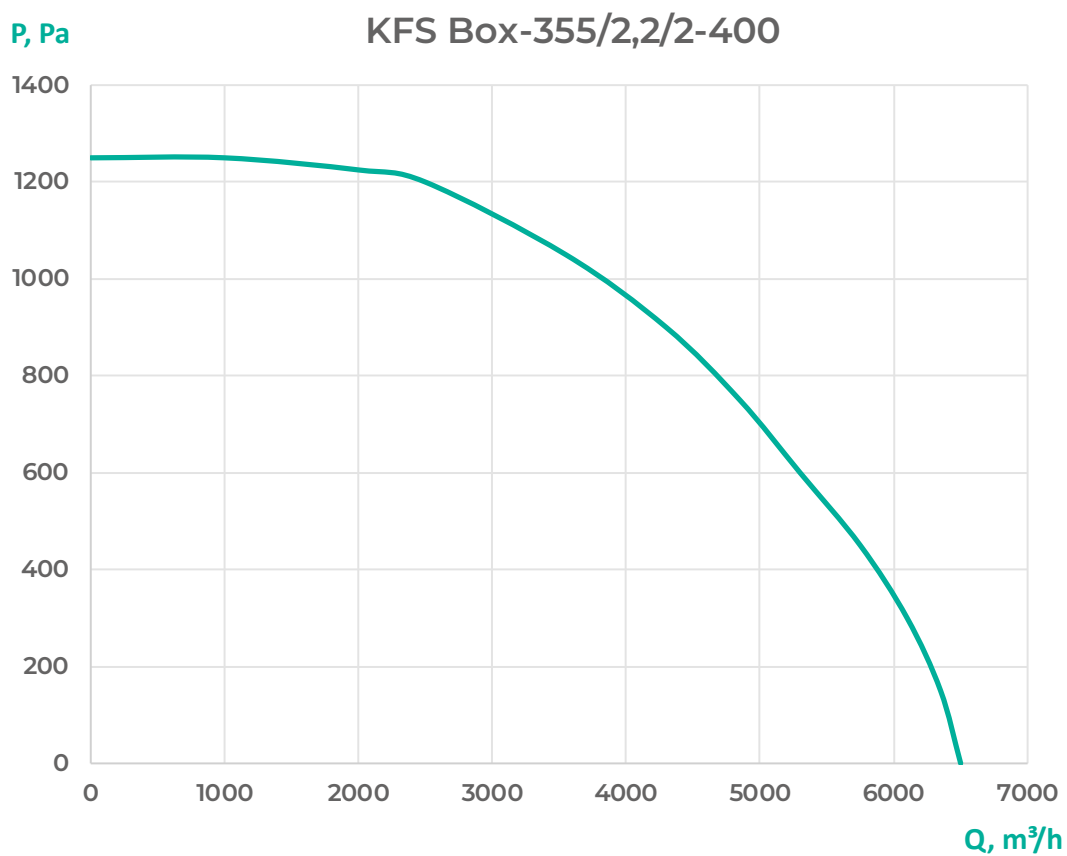
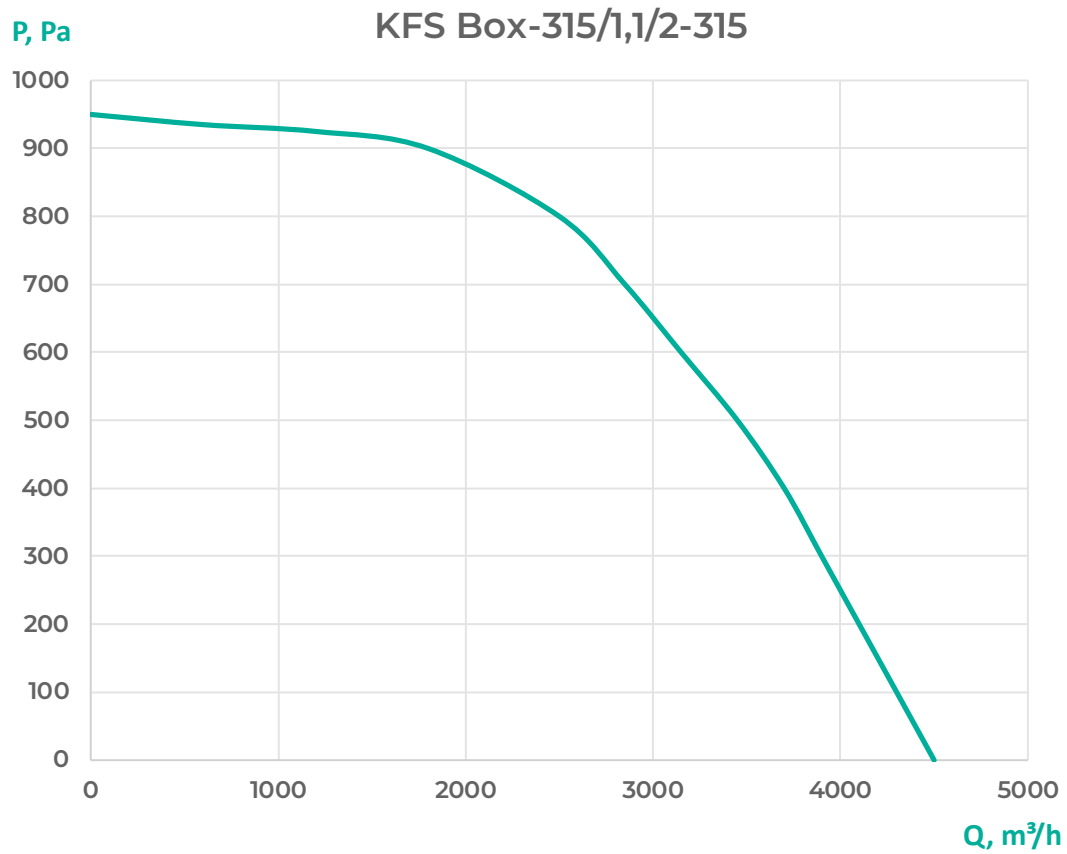
Type size	L	B	C	L1	B2	D
KFS Box-250/0,55/2-250	466,5	486	□450	157	350	250
KFS Box-280/0,75/2-315	516,5	536	□500	172	400	315
KFS Box-315/1,1/2-355	586,5	586	□550	187	450	355
KFS Box-355/2,2/2-400	616,5	636	□600	217	500	400
KFS Box-400/4,0/2-450	686,5	686	□650	247	550	450
KFS Box-315/0,18/4-355	586,5	586	□550	187	450	355
KFS Box-400/0,55/4-450	686,5	686	□650	247	550	450

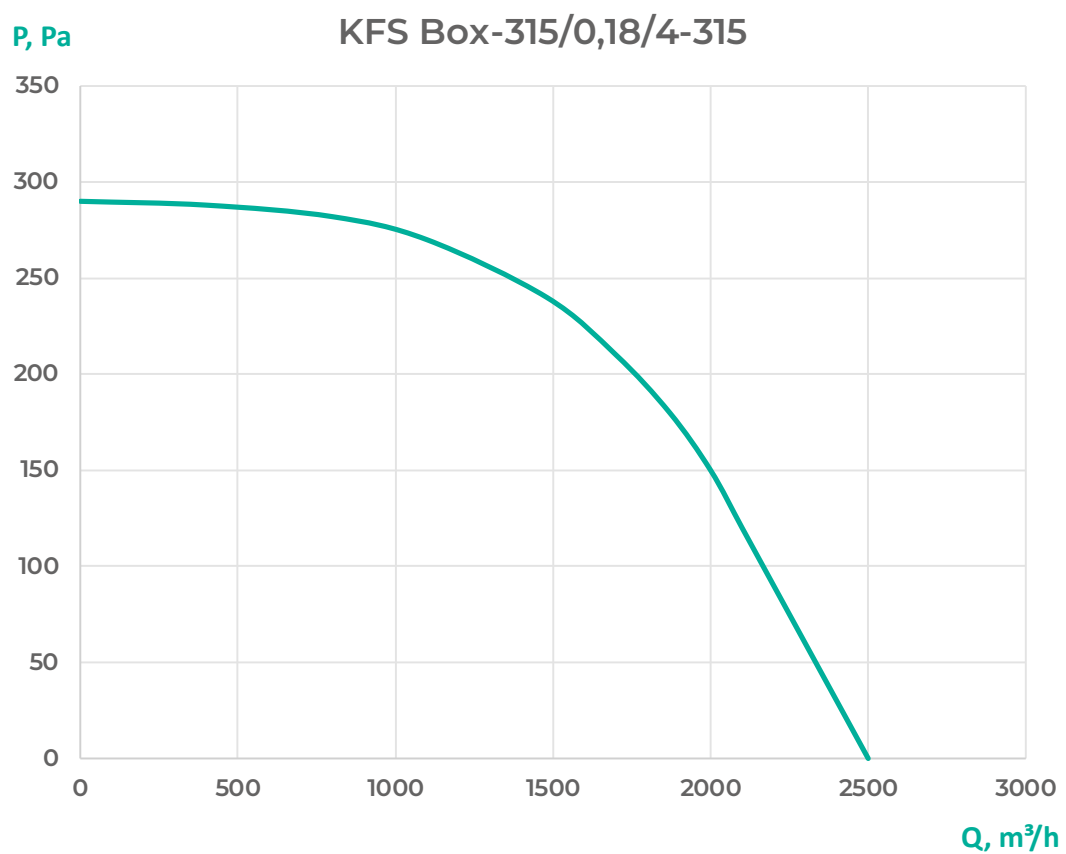
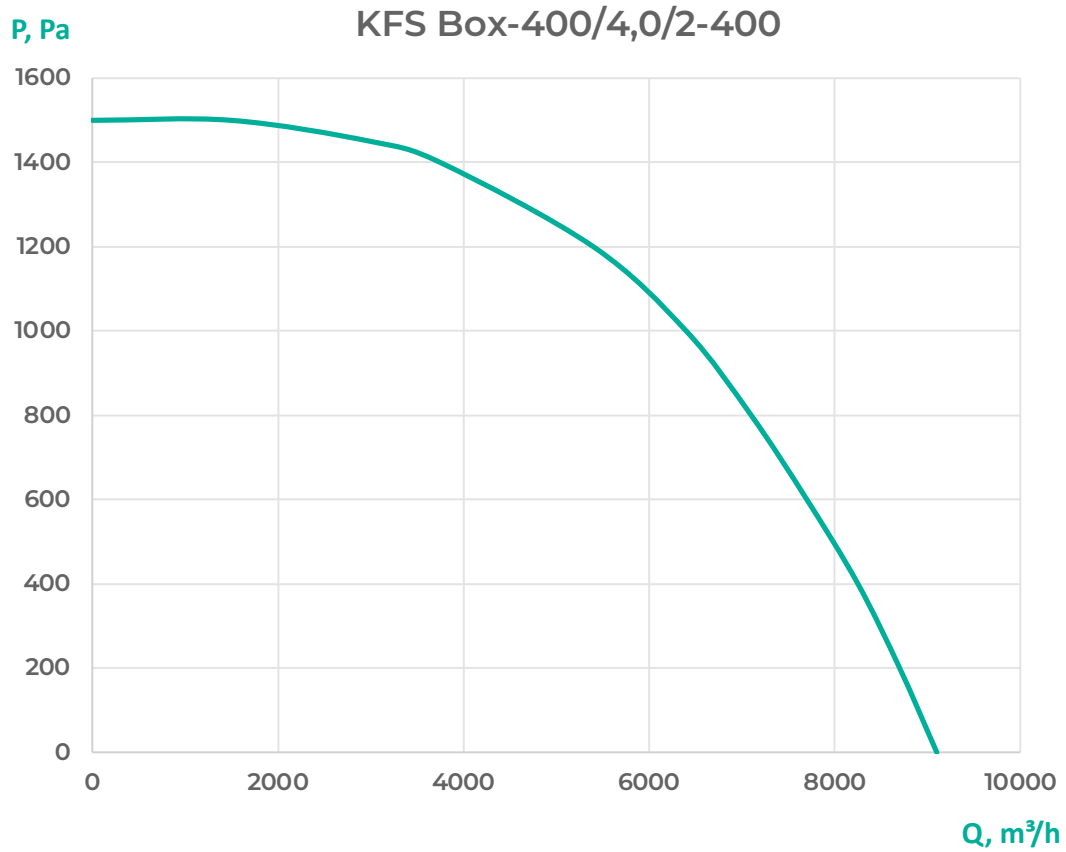


TECHNICAL CHARACTERISTICS OF FANS

Type size	Air flow rate, m³/h	Voltage / Power supply, V	Power, kW	Rated current, A	Rotation speed, rpm	Sound pressure level, dB(A)
Products with 2-pole motors						
KFS Box-250/0,55/2-250	2400	220/380	0,55	1,4	2770	58
KFS Box-280/0,75/2-315	3200		0,75	1,77	2840	60
KFS Box-315/1,1/2-355	4500		1,1	2,6	2840	60
KFS Box-355/2,2/2-400	6500		2,2	4,85	2860	63
KFS Box-400/4,0/2-450	9000		4	8,2	2860	67
Products with 4-pole motors						
KFS Box-315/0,18/4-355	2500	220/380	0,18	0,7	1325	40
KFS Box-400/0,55/4-450	5000		0,55	1,57	1390	50







P, Pa

KFS Box-400/0,55/4-400

