Ferroli

EOLO

EXHAUST AIR UNITS
Series 1 - direct drive

TECHNICAL MANUAL

CONTENTS

SECTION 1 - TECHNICAL FEAUTRES

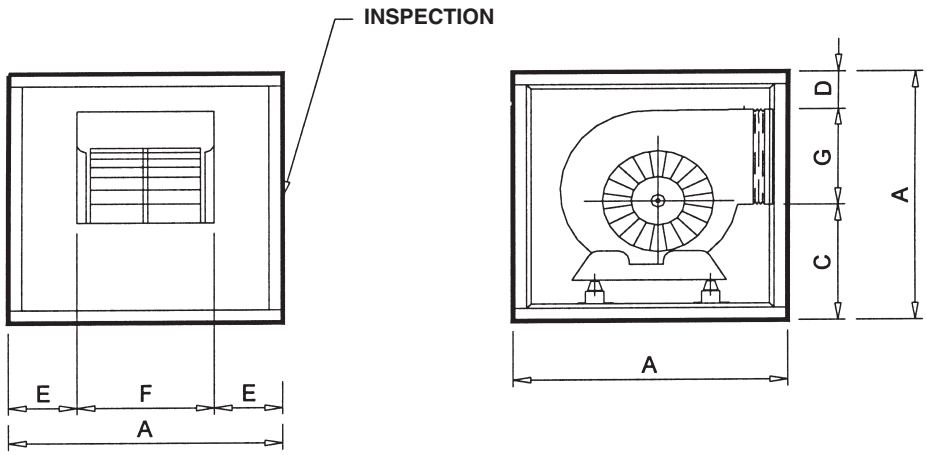
1.1 GENERAL FEATURES

- The structure is built of aluzink sheet metal.
- The sound insulation in the machine is ensured by a sufficient thickness of polyester.
- The electrical fans are double suction centrifugal type fans with both statically and dynamically balanced impellers.
- Vibration-dampeners are placed between the structure and the fan to attenuate any vibrations.
- The EOLO FK Series 1 models mount centrifugal electrical fans with a direct drive motor.
- The EOLO GR Series 2 models mount single or two-speed, 3-phase motors; fan-motor coupling for these models is achieved by pulleys and belts(*).
- For the EOLO GR Series 2 models, the belt is tightened by means of a motor slide.
- The operating temperature must be between –20°C and +40°C, inclusive.

(*) *EOLO GR2 models (belt-drive version), available upon request.*

1.2 CLEARANCE DIMENSIONS

1.2.1 EOLO FK Series 1 direct drive models



EOLO FK	A	C	D	E	F	G	WEIGHT (kg)
FK 576-574	500	171	111	129	242	218	25-30
FK 596-536-594	500	179	49	129	242	272	28-33
FK 596-626-694	600	179	149	146	308	272	35-40
FK 616-636-614	600	208	93	129	342	299	40-45
FK 726-726T*	700	234	115	147	406	351	60

(*) power supply 400/3/50

1.3 ELECTRICAL FEATURES

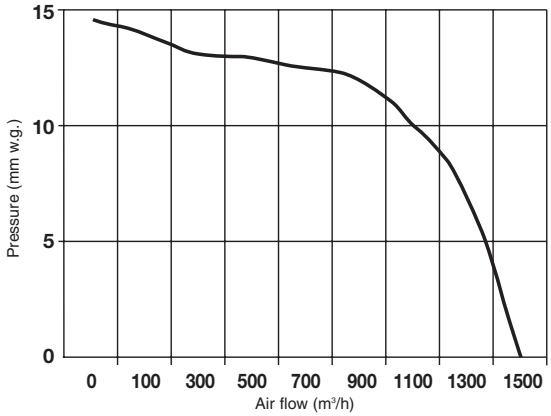
1.3.1 EOLO FK MODELS Series 1 - direct drive

MODELS	Power at shaft	Max current input	Fan speed	Poles	International protection	Insulation class	Power supply		
	W	A	No.	No.	IP		V	Ph	Hz
FK 576	62	1.28	1	6	20	B	230	1	50
FK 574	147	1.50	1	4	55	F	230	1	50
FK 596	147	2.20	1	6	20	B	230	1	50
FK 536	200	1.50	1	6	55	F	230	1	50
FK 594	420	3.60	1	4	55	F	230	1	50
FK 696	147	2.25	1	6	20	B	230	1	50
FK 626	200	1.75	1	6	55	F	230	1	50
FK 694	420	3.60	1	4	55	F	230	1	50
FK 616	245	2.60	1	6	20	B	230	1	50
FK 636	550	4.60	1	4	55	F	230	1	50
FK 614	515	3.80	1	6	55	F	230	1	50
FK 726	736	7.90	1	6	20	B	230	1	50
FK 726T	1100	7.40/4.30	1	6	20	B	230/400	3	50

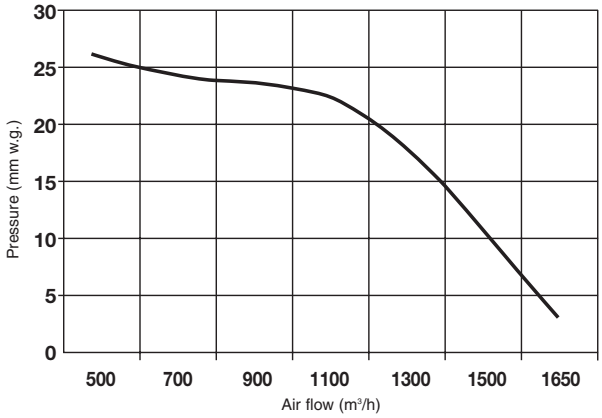
1.4 SERIES 1 AIR FLOW PERFORMANCE

1.4.1 EOLO FK 5 Fan performance charts

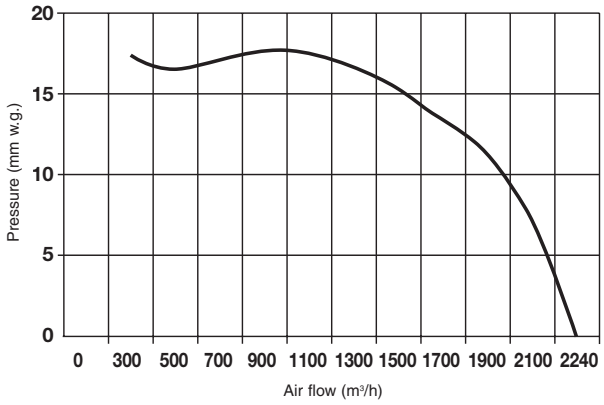
FK 576 fan



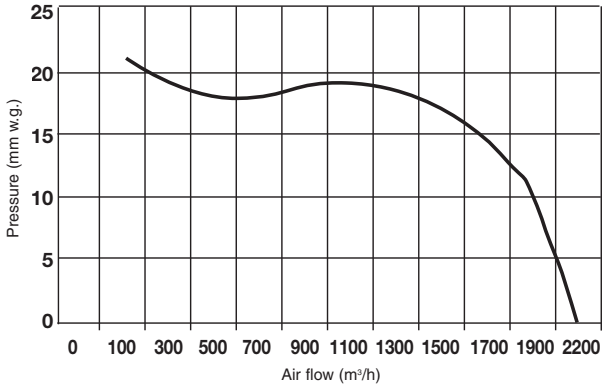
FK 574 fan



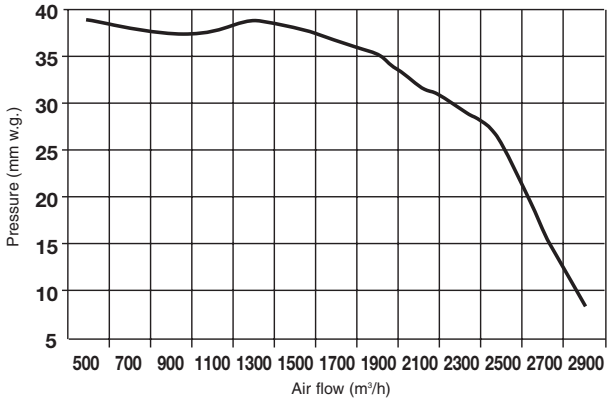
FK 596 fan



FK 536 fan

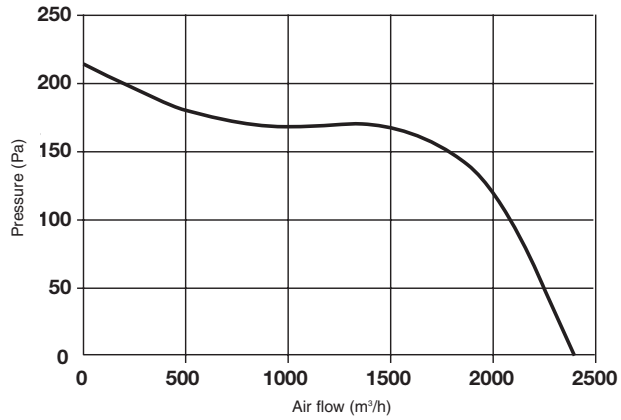


FK 594 fan

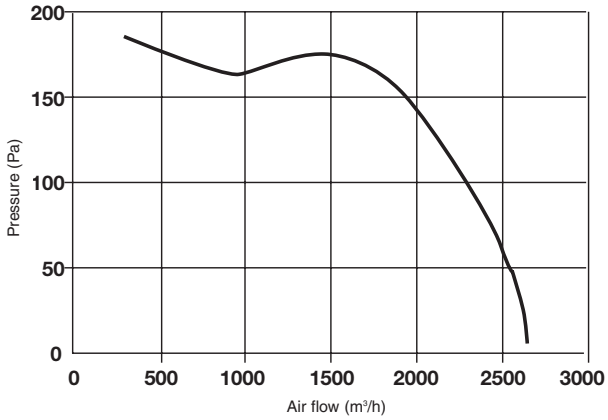


1.4.2 EOLO FK 6 Fan performance charts

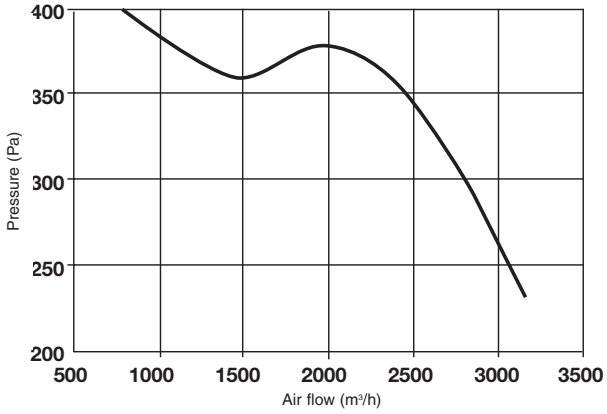
FK 696 fan



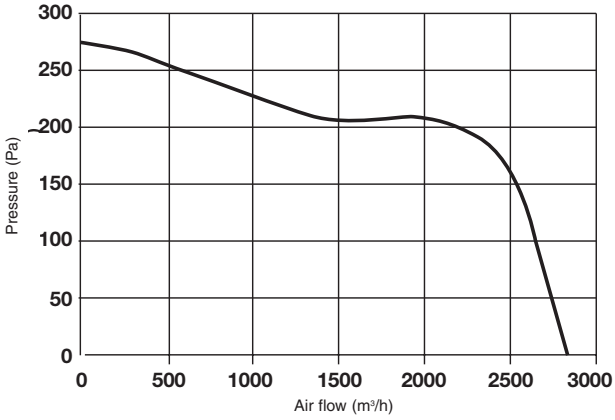
FK 626 fan



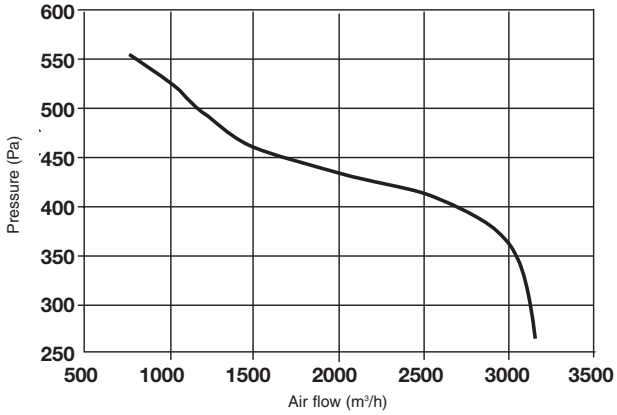
FK 694 fan



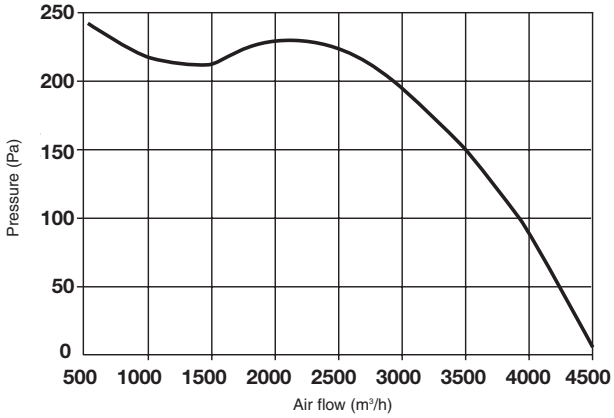
FK 616 fan



FK 636 fan

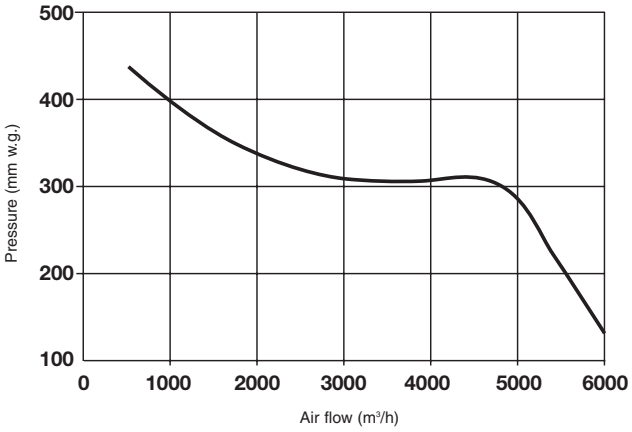


FK 614 fan

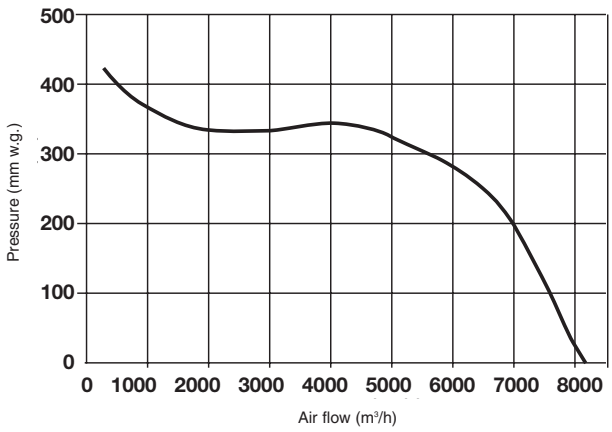


1.4.3 FK 7 Fan performance charts

FK 726 fan



FK 726T fan

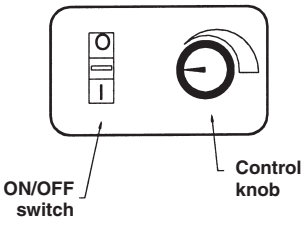


SECTION 2 - ACCESSORIES

2.1 VARIABLE-SPEED DRIVE

The variable-speed drive is suitable for wall installation and allows the regulation of the single-phase-motor fan. There are three regulator models depending upon the current absorbed by the fan motor: **1.5A - 3.0A - 5.0A**. Located on the front of the control panel is:
- the on-off switch
- the continuous speed control knob

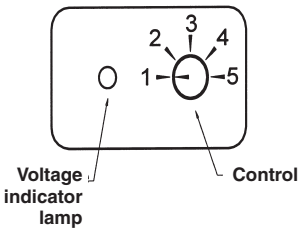
Models	Vol/phase/Hz	Nominal current	Maximum current	Range of control
> 300 W	230/1/50	1,5 A	3A	40% a 100% Vmax
> 600 W	230/1/50	3 A	5A	40% a 100% Vmax
> 900 W	230/1/50	5 A	7,5A	40% a 100% Vmax



2.2 AUTOTRANSFORMER

The regulator is suitable for wall installation and allows the regulation of the 3-phase motor fan. Located on the front of the control panel is:
- the power indicator lamp
- the 5- speed control knob

Power supply	Nominal current	Maximum current	Control with 5-speed switch
400/3/50 - 60 Hz	5A	7A	40% of 100% V max



2.3 TP - PROTECTIVE COVER

Constructed of aluzink, it is used to protect the extraction units when installed outdoors.

2.4 RT - HOUSING WITH BIRD-PROTECTION GRID

This is used when the extraction unit is installed outdoors and with the outlet opening unobstructed. The housing is built of aluzink and is constructed so that water cannot leak inside. A grid mounted at the end prevents the entry of foreign bodies in the fan.

2.5 PA - SUPPORT FEET

The support feet are mounted below the unit and prevent it from resting directly on the floor. They are made of very thick galvanized sheet and have holes to easily hook the units while handling.

2.6 SS - OVERPRESSURE DAMPER

The overpressure damper consists of a galvanized sheet frame with aluminum louvers. When the fan is on, the louvers are open; they close when the fan is off. It may be installed either directly at the fan opening or at the end of outlet duct.

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