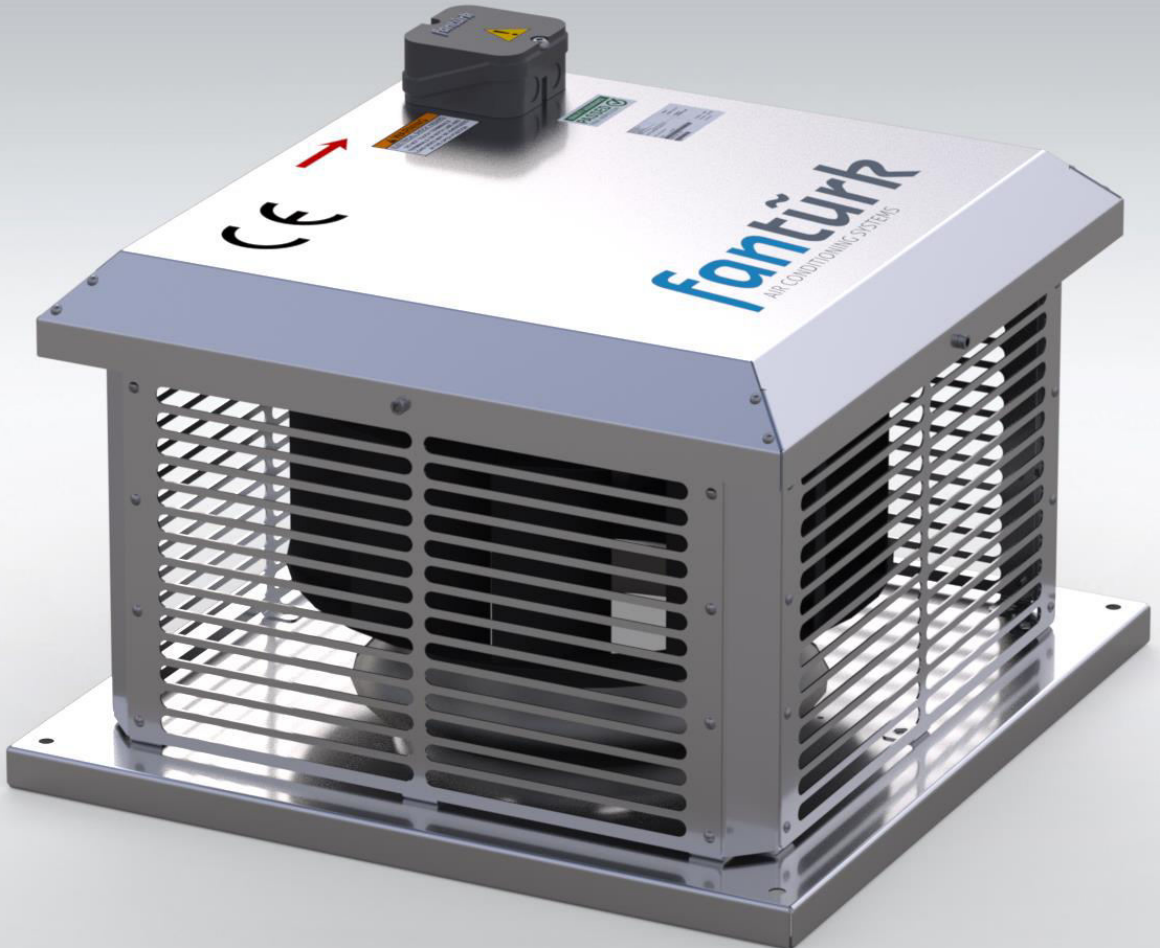




# ***Product Catalogue***



**ÇTF**  
*Roof Type*  
*Radial Fan*



## Technical Specifications

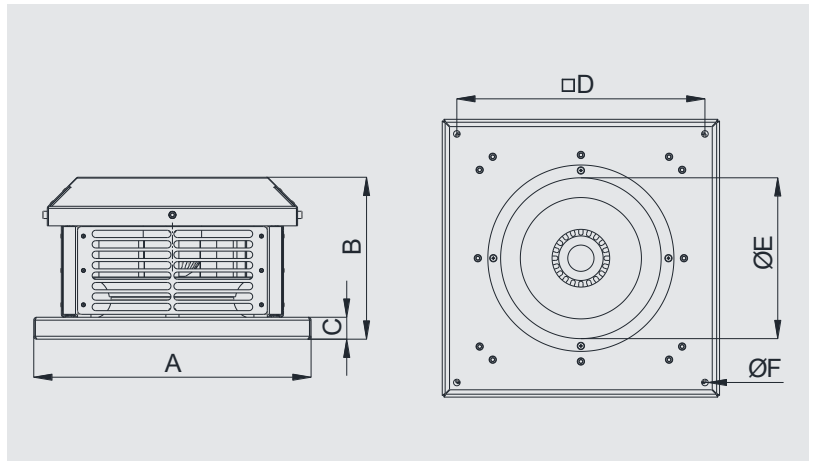
# ROOF TYPE RADIAL FAN

ÇTF (230V) series roof type radial fans; are the ideal fans for roof installation in ventilation systems where high air flow and high pressure are required. They have high performance and trouble-free operation specifications.

Made of high quality corrosion resistant galvanized steel. Fans are radial fans with backward curved blades. Motors are single phase and has IP55 and Class F insulation. Speed controller is optional for all models..

### Usage Areas

Can be used in all kinds of industrial building, office, kitchen and residential building ventilation systems where compact solutions are needed.

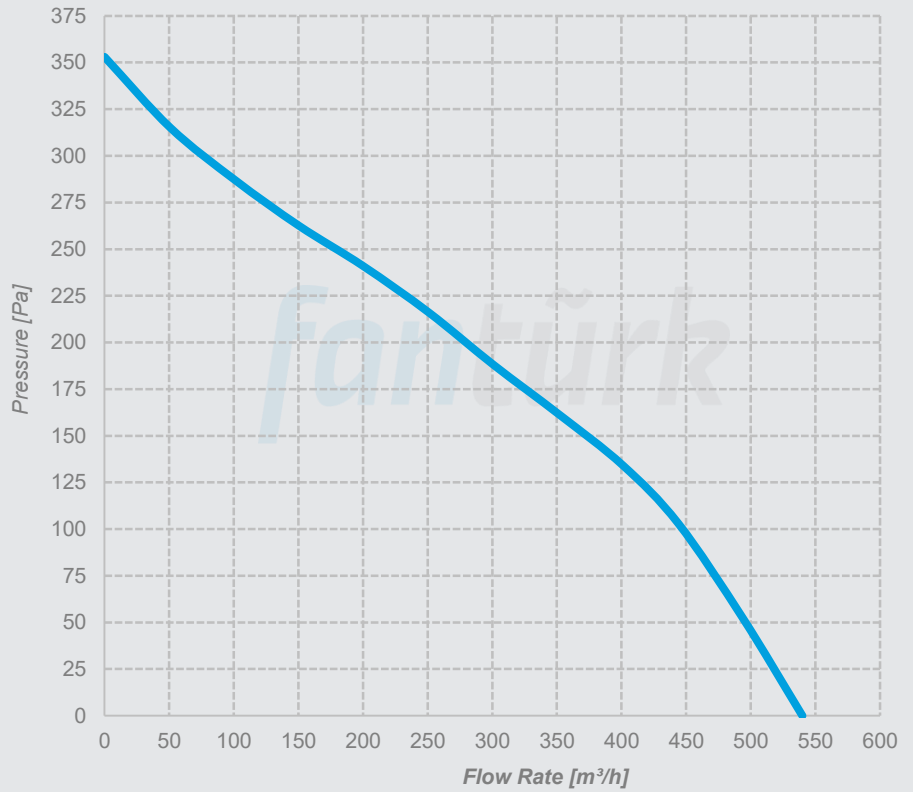


MODEL	A	B	C	D	E	F	VOLTAGE	FREQUENCY	POWER	CURRENT	CAPACITOR	MOTOR SPEED	AIR FLOW RATE	SOUND LEVEL	WEIGHT
	mm	mm	mm	mm	mm	mm	V	Hz	W	A	µf	rpm	m <sup>3</sup> /h	dBA	kg
ÇTF-1	320	175	30	280	145	9	230	50	66	0,3	3	2300	540	52	6,5
ÇTF-2	350	190	30	310	190	9	230	50	100	0,47	3	2580	800	56	8,3
ÇTF-3	360	210	30	320	170	9	230	50	150	0,65	4	2680	1020	58	8,5
ÇTF-4	380	220	30	340	220	9	230	50	200	0,9	6	2650	1520	58	9,7
ÇTF-5	410	220	30	370	220	9	230	50	250	1,1	8	2500	1840	60	11
ÇTF-6	500	310	30	460	270	9	230	50	210	1	8	1400	2520	62	17
ÇTF-7	570	365	30	530	310	11	230	50	500	1,8	12	1380	4100	64	28
ÇTF-8	630	365	30	590	310	11	230	50	800	3,7	16	1350	5600	65	31

## Performance Curves

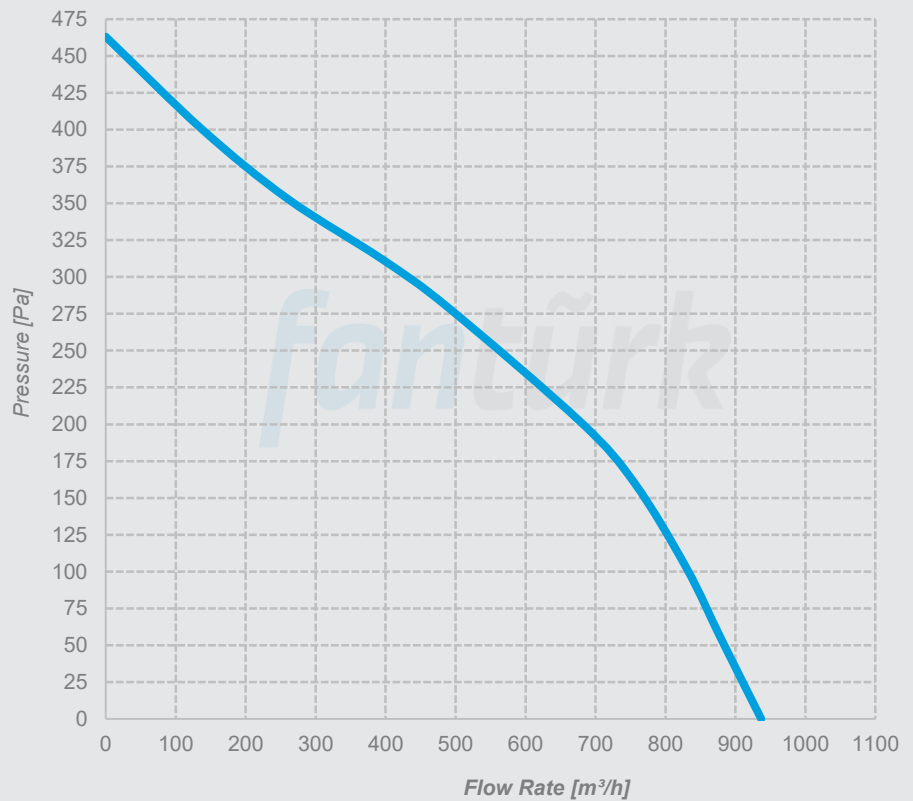
### ÇTF-1

Voltage 230 V  
Frequency 50 Hz  
Current 66 W  
Current 0,3 A  
Capacitor 3  $\mu$ f  
Motor Speed 2300 rpm  
Flow Rate 540 m<sup>3</sup>/h  
Sound Pressure Level 52 dBA  
Weight 6,5 kg



### ÇTF-2

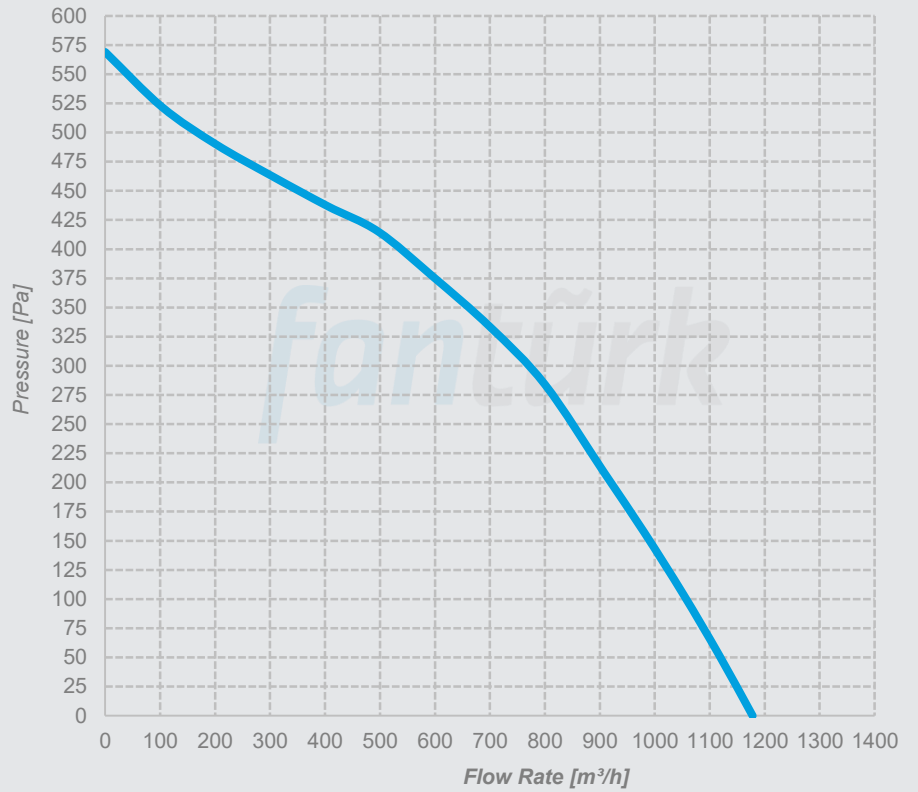
Voltage 230 V  
Frequency 50 Hz  
Current 100 W  
Current 0,47 A  
Capacitor 3  $\mu$ f  
Motor Speed 2580 rpm  
Flow Rate 800 m<sup>3</sup>/h  
Sound Pressure Level 56 dBA  
Weight 8,3 kg



## Performance Curves

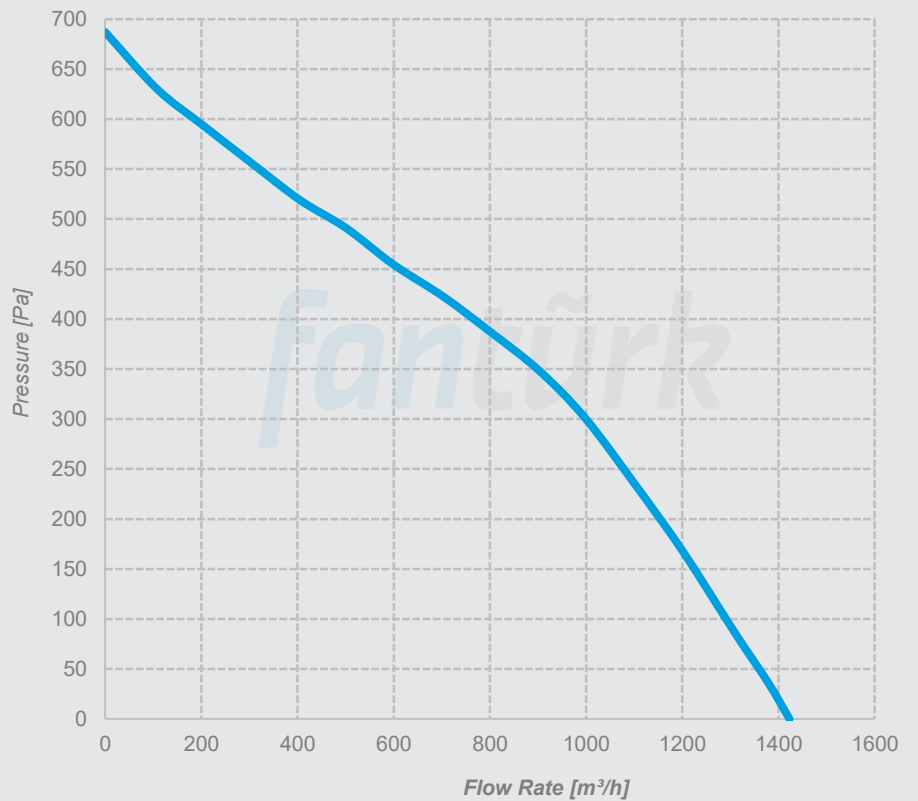
### ÇTF-3

Voltage 230 V  
Frequency 50 Hz  
Current 150 W  
Current 0,65 A  
Capacitor 4  $\mu$ f  
Motor Speed 2680 rpm  
Flow Rate 1020m<sup>3</sup>/h  
Sound Pressure Level 58 dBA  
Weight 8,5 kg



### ÇTF-4

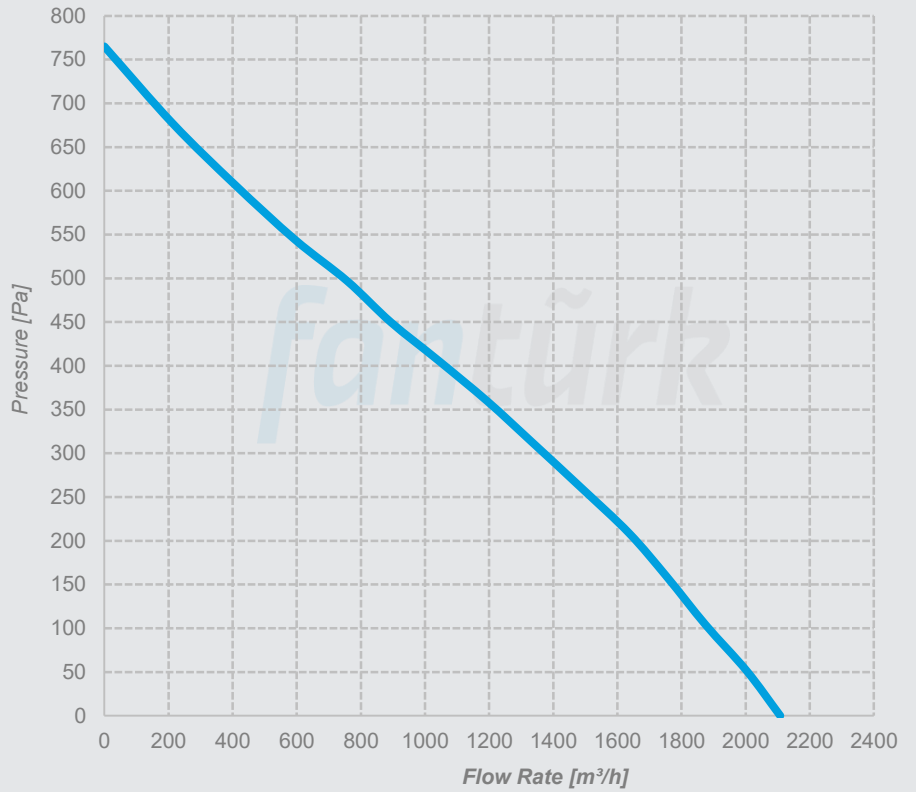
Voltage 230 V  
Frequency 50 Hz  
Current 200 W  
Current 0,9 A  
Capacitor 6  $\mu$ f  
Motor Speed 2650 rpm  
Flow Rate 1520 m<sup>3</sup>/h  
Sound Pressure Level 58 dBA  
Weight 9,7 kg



## Performance Curves

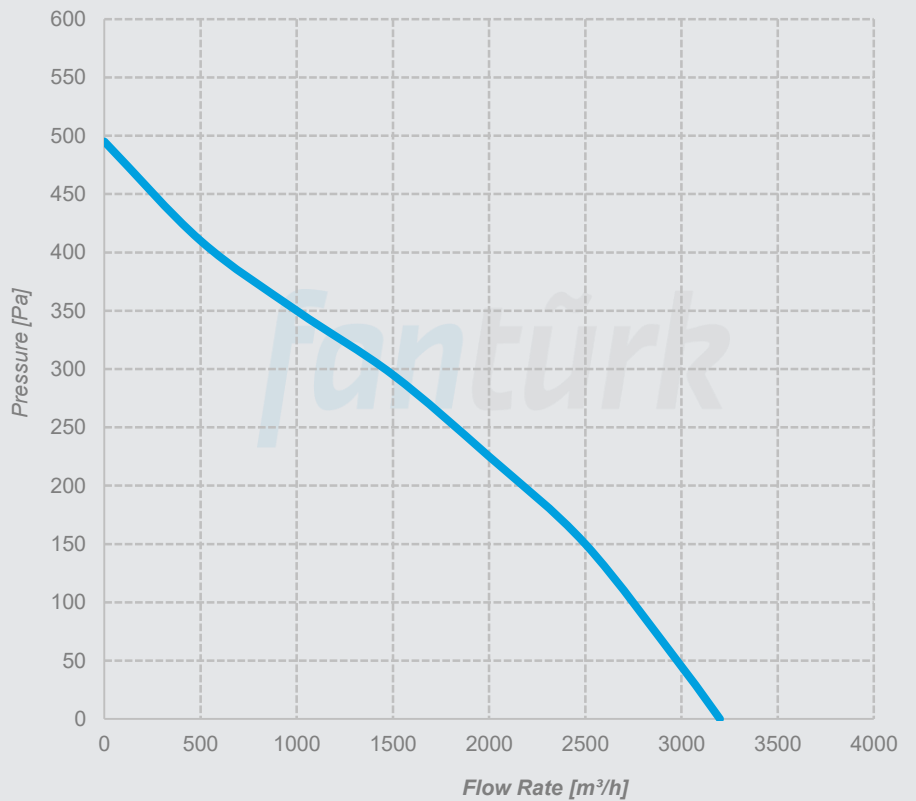
### ÇTF-5

Voltage 230 V  
Frequency 50 Hz  
Current 250 W  
Current 1,1 A  
Capacitor 8  $\mu$ f  
Motor Speed 2500 rpm  
Flow Rate 1840 m<sup>3</sup>/h  
Sound Pressure Level 60 dBA  
Weight 11 kg



### ÇTF-6

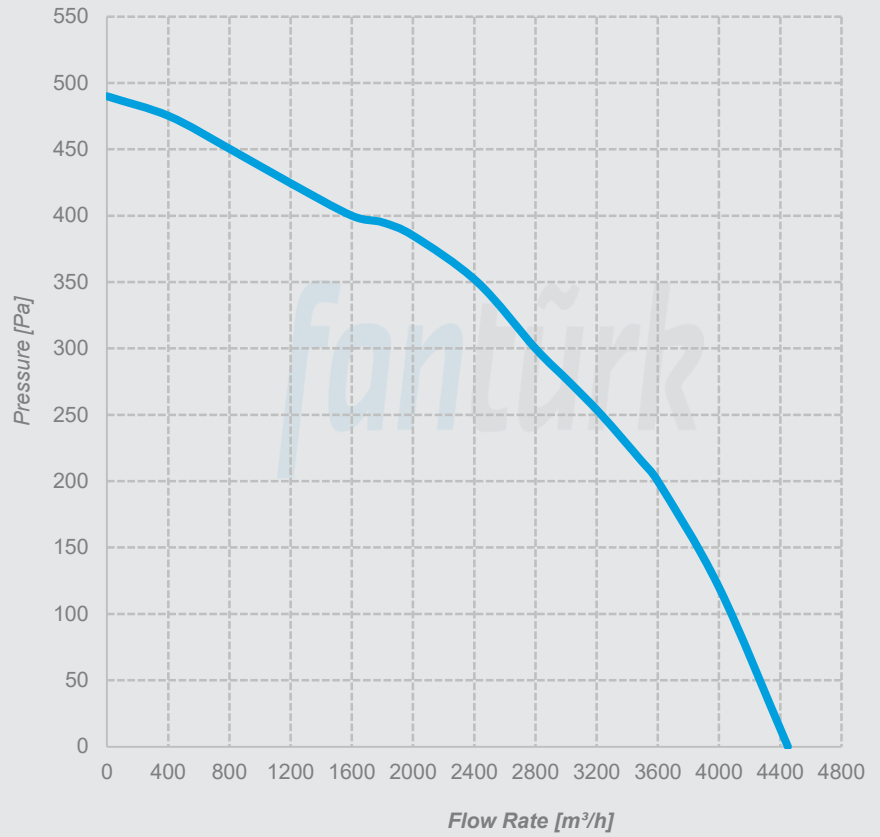
Voltage 230 V  
Frequency 50 Hz  
Current 210 W  
Current 1 A  
Capacitor 8  $\mu$ f  
Motor Speed 1400 rpm  
Flow Rate 2520 m<sup>3</sup>/h  
Sound Pressure Level 62 dBA  
Weight 17 kg



## Performance Curves

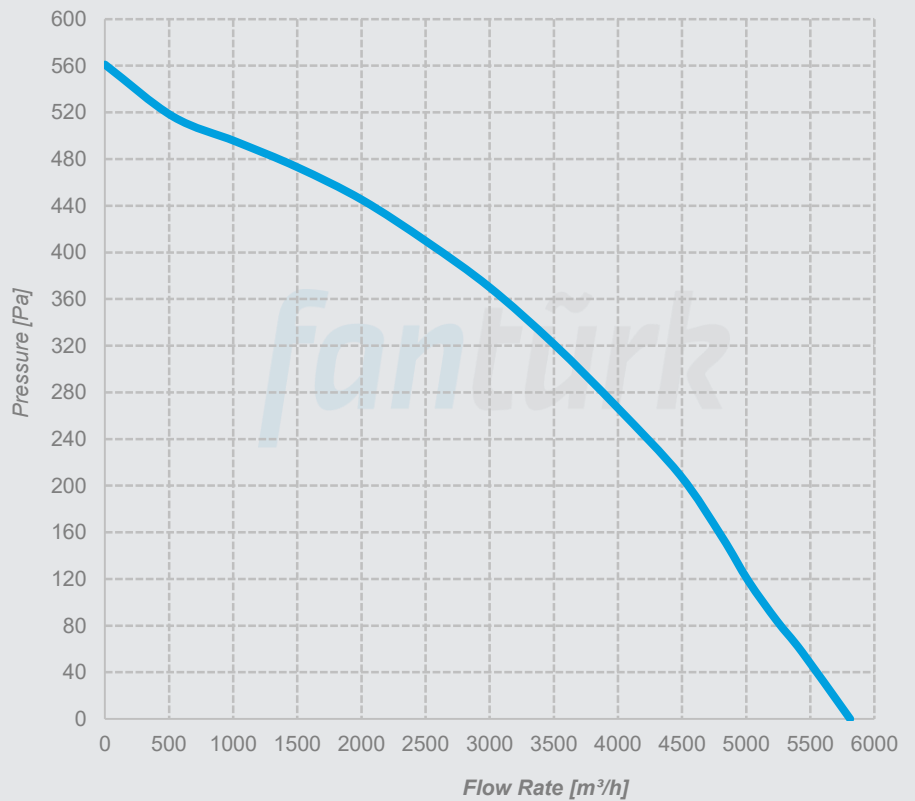
### ÇTF-7

Voltage 230 V  
Frequency 50 Hz  
Current 500 W  
Current 1,8 A  
Capacitor 12  $\mu$ f  
Motor Speed 1380 rpm  
Flow Rate 4100 m<sup>3</sup>/h  
Sound Pressure Level 64 dBA  
Weight 28 kg



### ÇTF-8

Voltage 230 V  
Frequency 50 Hz  
Current 800 W  
Current 3,7 A  
Capacitor 16  $\mu$ f  
Motor Speed 1350 rpm  
Flow Rate 5600 m<sup>3</sup>/h  
Sound Pressure Level 65 dBA  
Weight 31 kg



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T: 90(224)482 50 95 E: info@fanturk.com.tr*

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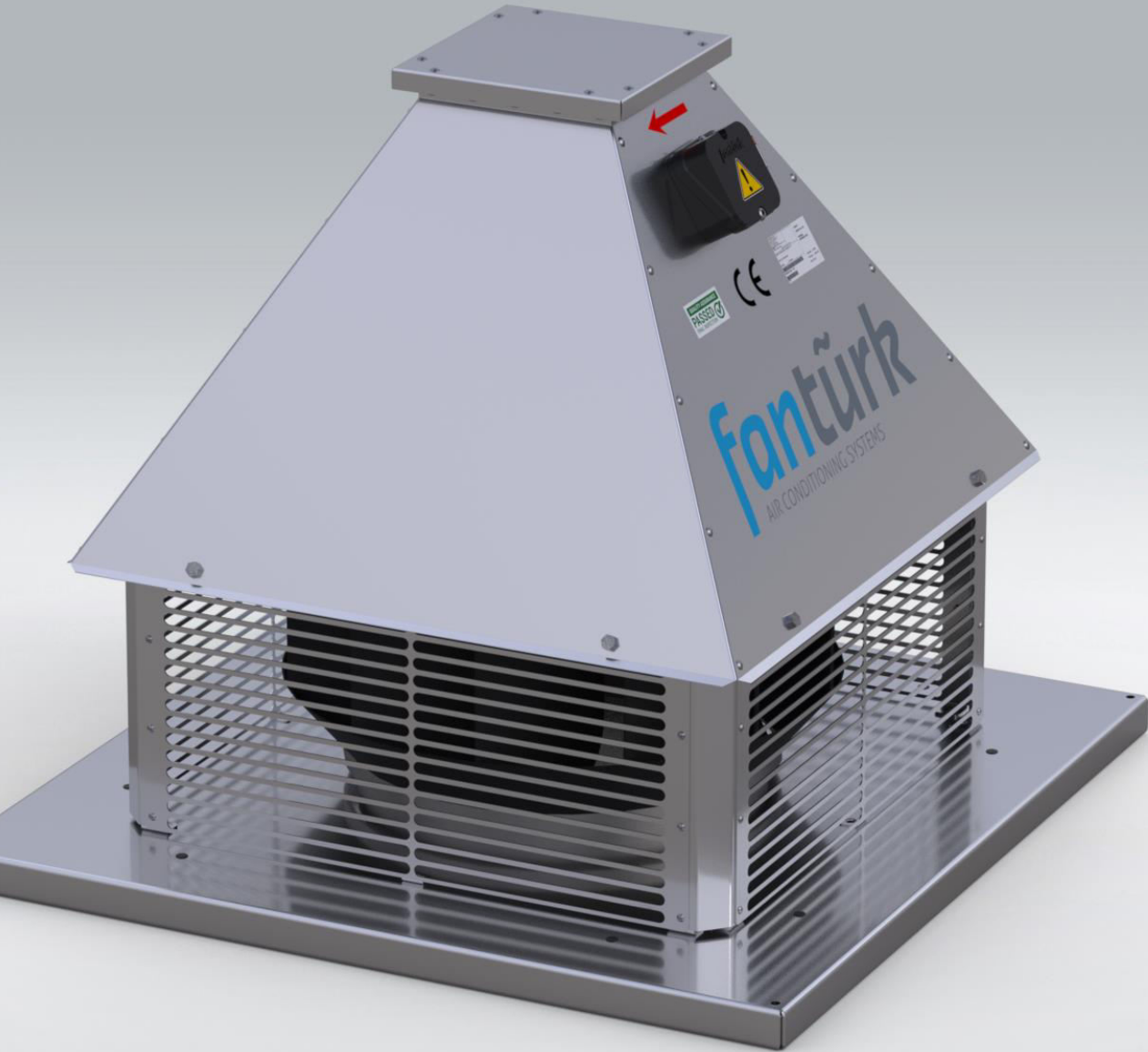




# ***Product Catalogue***



**ÇTF**  
**External Driven**  
**Roof Type**  
**Horizontal Flow**  
**Radial Fan**



## Technical Specifications

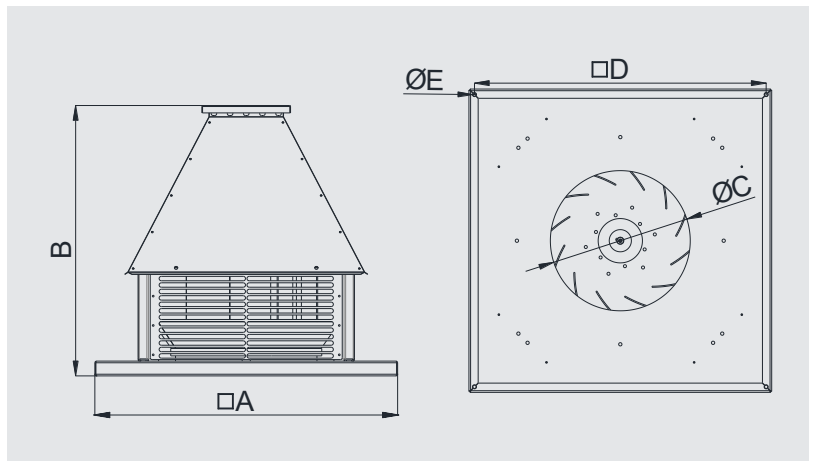
# EXTERNAL DRIVEN ROOF TYPE HORIZONTAL FLOW RADIAL FAN

ÇTF (380V) series roof type radial fans; are the ideal fans for roof installation in ventilation systems where high air flow and high pressure are required.

Made of high quality corrosion resistant galvanized steel. Fans are radial fans with backward curved blades. Motors are three-phase and have 4 pole, IP55 and Class F insulation. Due to the fact that the motor is out of the air flow, it is protected from the factors that will damage the motor or hot air. This method provides 120 ° C continuous operation. Frequency controller is optional for all models.

### Usage Areas

Can be used in ventilation systems where the exhaust air is likely to damage the motor, in oily exhaust air from kitchens, and all kinds of industrial buildings, office and residential buildings.

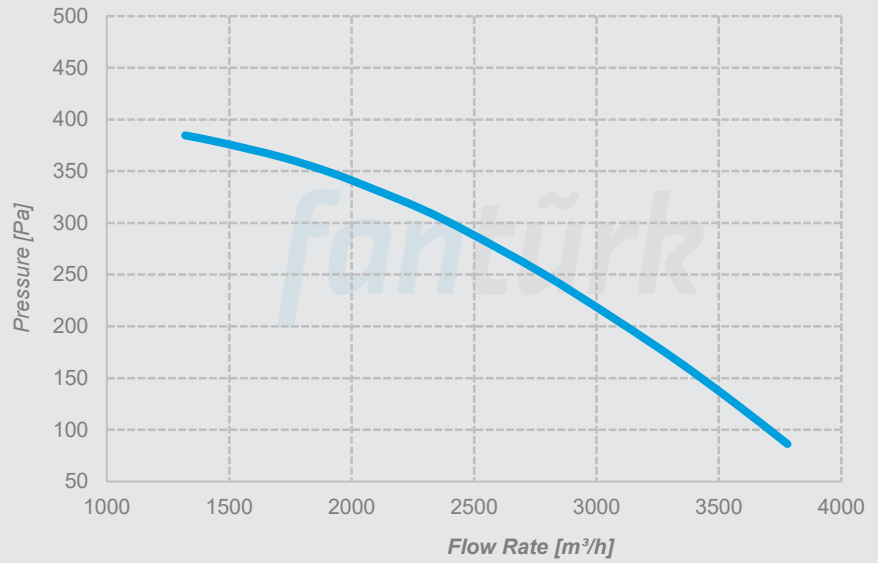


MODEL	A	B	C	D	E	VOLTAGE	FREQUENCY	POWER	CURRENT	MOTOR SPEED	AIR FLOW RATE	PRESSURE	SOUND PRESSURE LEVEL	WEIGHT
	mm	mm	mm	mm	mm	V	Hz	kW	A	rpm	m <sup>3</sup> /h	Pa	dBA	kg
ÇTF 250/0.37	620	583	257	590	9	380	50	0,37	1,2	1360	3000	250	62	55
ÇTF 280/0.55	680	603	260	640	9	380	50	0,55	1,6	1370	4500	250	64	60
ÇTF 315/1.1	720	642	291	690	9	380	50	1,1	2,6	1390	6000	250	67	70
ÇTF 355/2.2	820	751	379	790	9	380	50	2,2	5,2	1420	9000	250	69	80
ÇTF 400/1.1	870	761	395	840	9	380	50	1,1	2,9	930	9000	250	60	85
ÇTF 400/4	870	761	395	840	9	380	50	4	8,2	1430	12000	250	70	105
ÇTF 450/2.2	950	936	430	920	9	380	50	2,2	5,4	950	12000	250	63	130
ÇTF 450/5.5	950	936	430	920	9	380	50	5,5	11,2	1440	15000	250	71	138
ÇTF 450/7.5	950	936	430	920	9	380	50	7,5	15,4	1450	18000	250	72	151

## Performance Curves

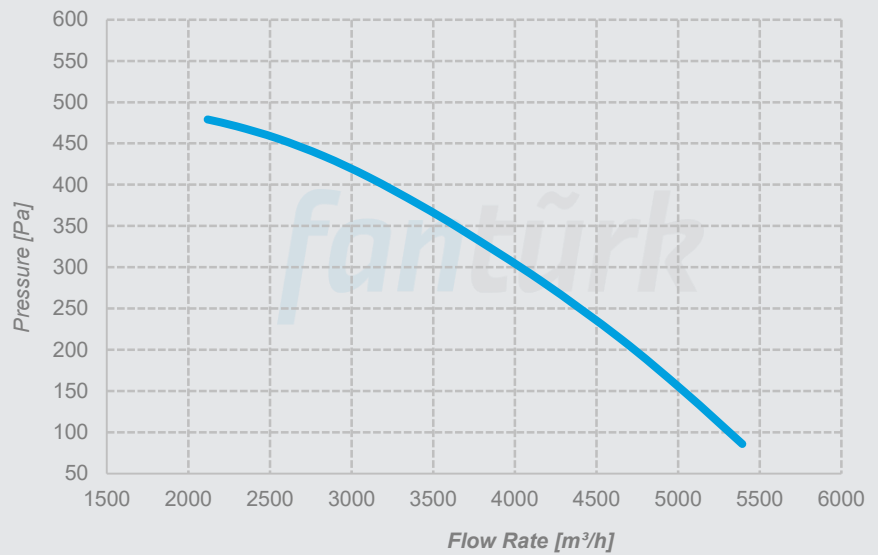
### ÇTF 250/0,37

Voltage 380 V  
Frequency 50 Hz  
Motor Power 0,25 kW  
Motor Speed 1360 rpm  
Sound Pressure Level 62 dBA  
Weight 55 kg



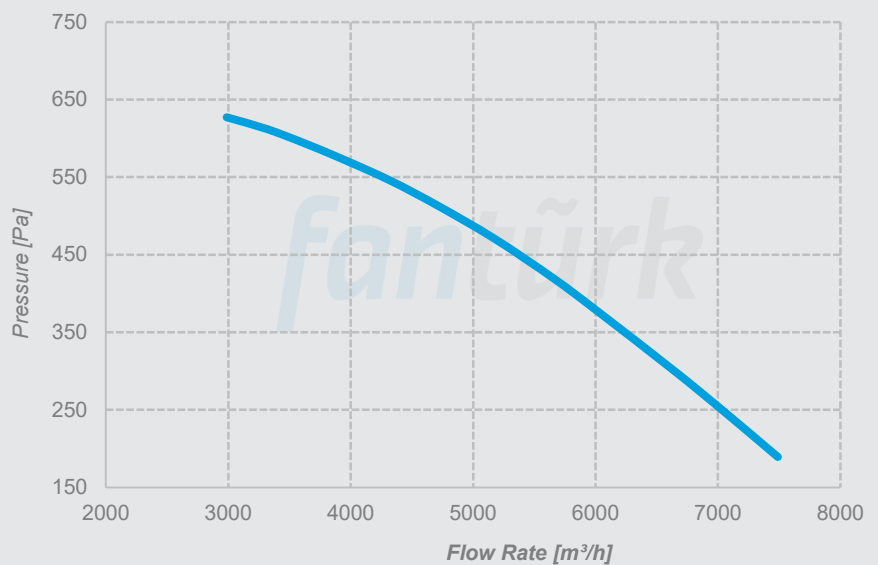
### ÇTF 280/0,55

Voltage 380 V  
Frequency 50 Hz  
Motor Power 0,55 kW  
Motor Speed 1370 rpm  
Sound Pressure Level 64 dBA  
Weight 60 kg



### ÇTF 315/1,1

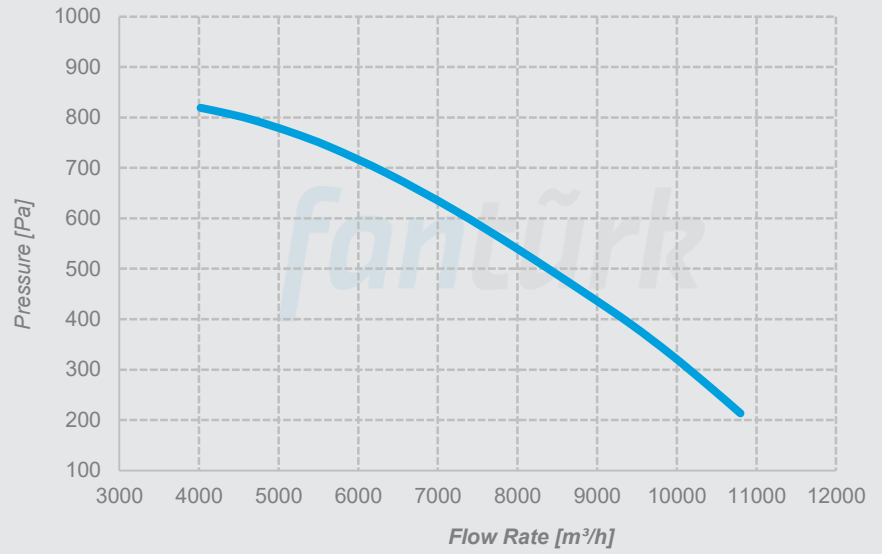
Voltage 380 V  
Frequency 50 Hz  
Motor Power 1,1 kW  
Motor Speed 1390 rpm  
Sound Pressure Level 67 dBA  
Weight 70 kg



## Performance Curves

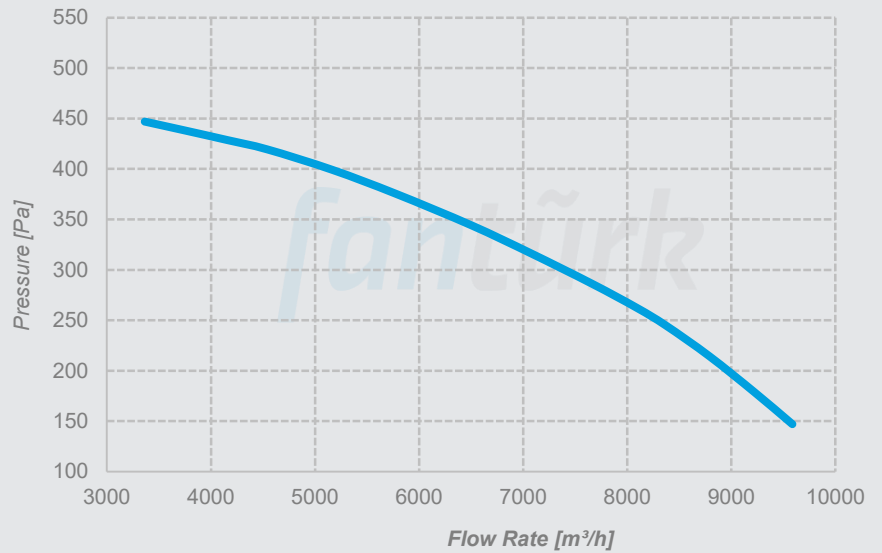
### ÇTF 355/2,2

Voltage 380 V  
Frequency 50 Hz  
Motor Power 2,2 kW  
Motor Speed 1420 rpm  
Sound Pressure Level 69 dBA  
Weight 80 kg



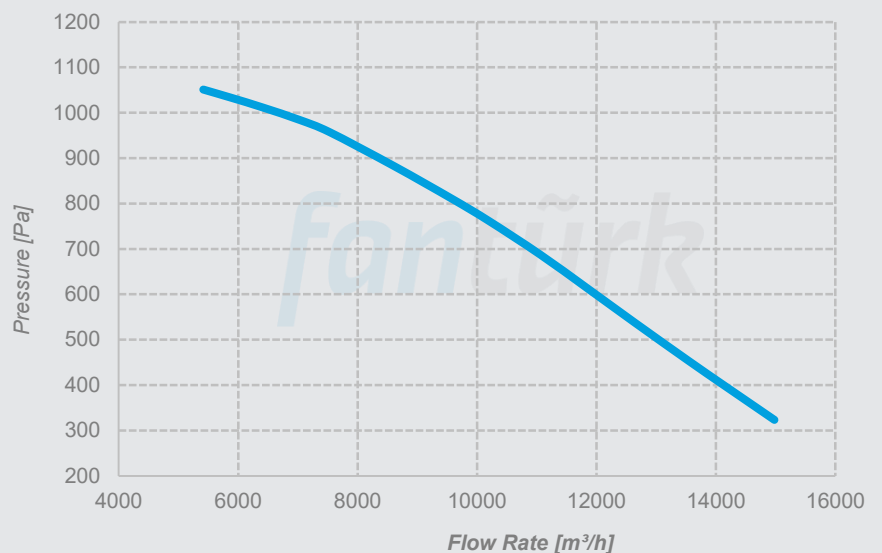
### ÇTF 400/1,1

Voltage 380 V  
Frequency 50 Hz  
Motor Power 1,1 kW  
Motor Speed 930 rpm  
Sound Pressure Level 60 dBA  
Weight 85 kg



### ÇTF 400/4

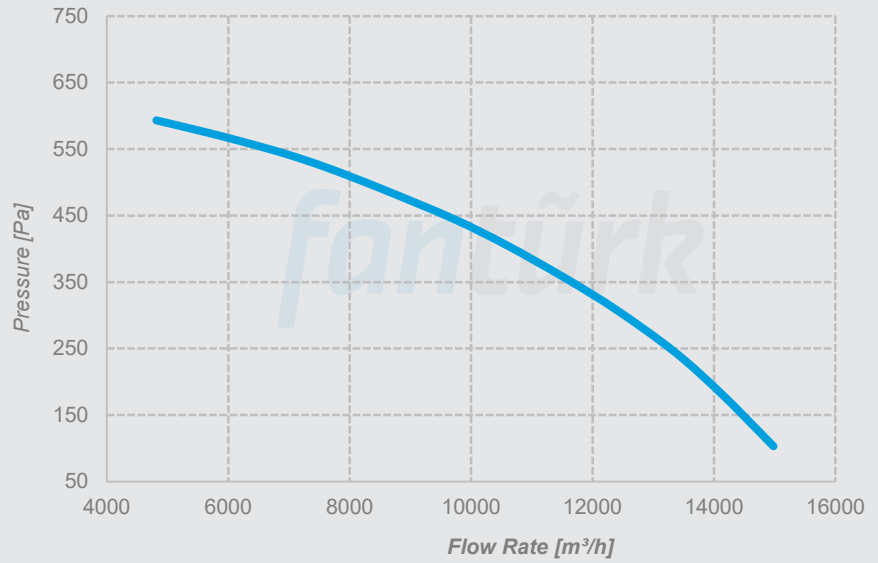
Voltage 380 V  
Frequency 50 Hz  
Motor Power 4 kW  
Motor Speed 1430 rpm  
Sound Pressure Level 70 dBA  
Weight 105 kg



## Performance Curves

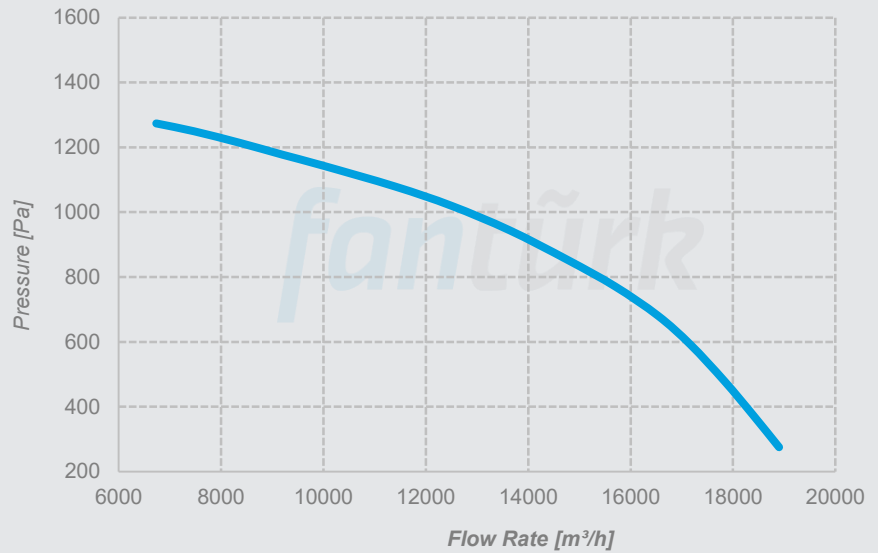
### ÇTF 450/2,2

Voltage 380 V  
Frequency 50 Hz  
Motor Power 2,2 kW  
Motor Speed 950 rpm  
Sound Pressure Level 68 dBA  
Weight 130 kg



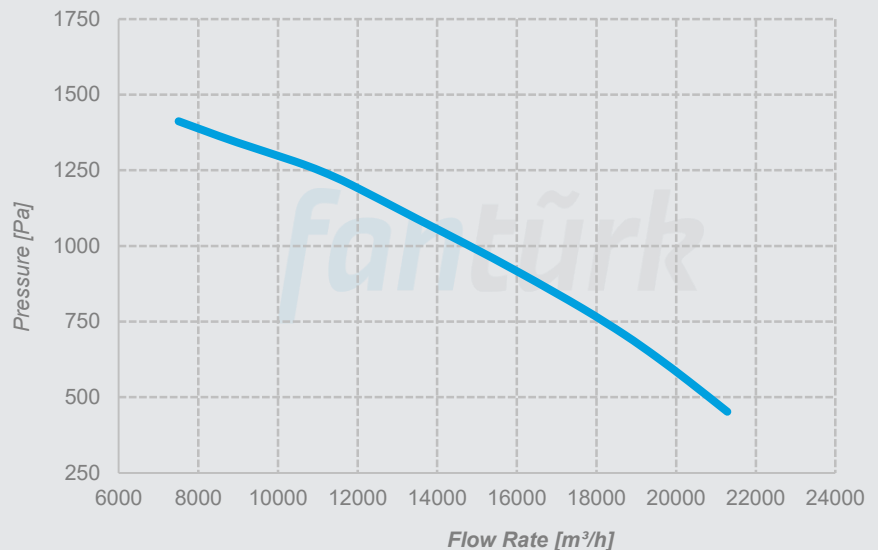
### ÇTF 450/5,5

Voltage 380 V  
Frequency 50 Hz  
Motor Power 5,5 kW  
Motor Speed 1440 rpm  
Sound Pressure Level 63 dBA  
Weight 130 kg



### ÇTF 450/7,5

Voltage 380 V  
Frequency 50 Hz  
Motor Power 7,5 kW  
Motor Speed 1450 rpm  
Sound Pressure Level 72 dBA  
Weight 151 kg



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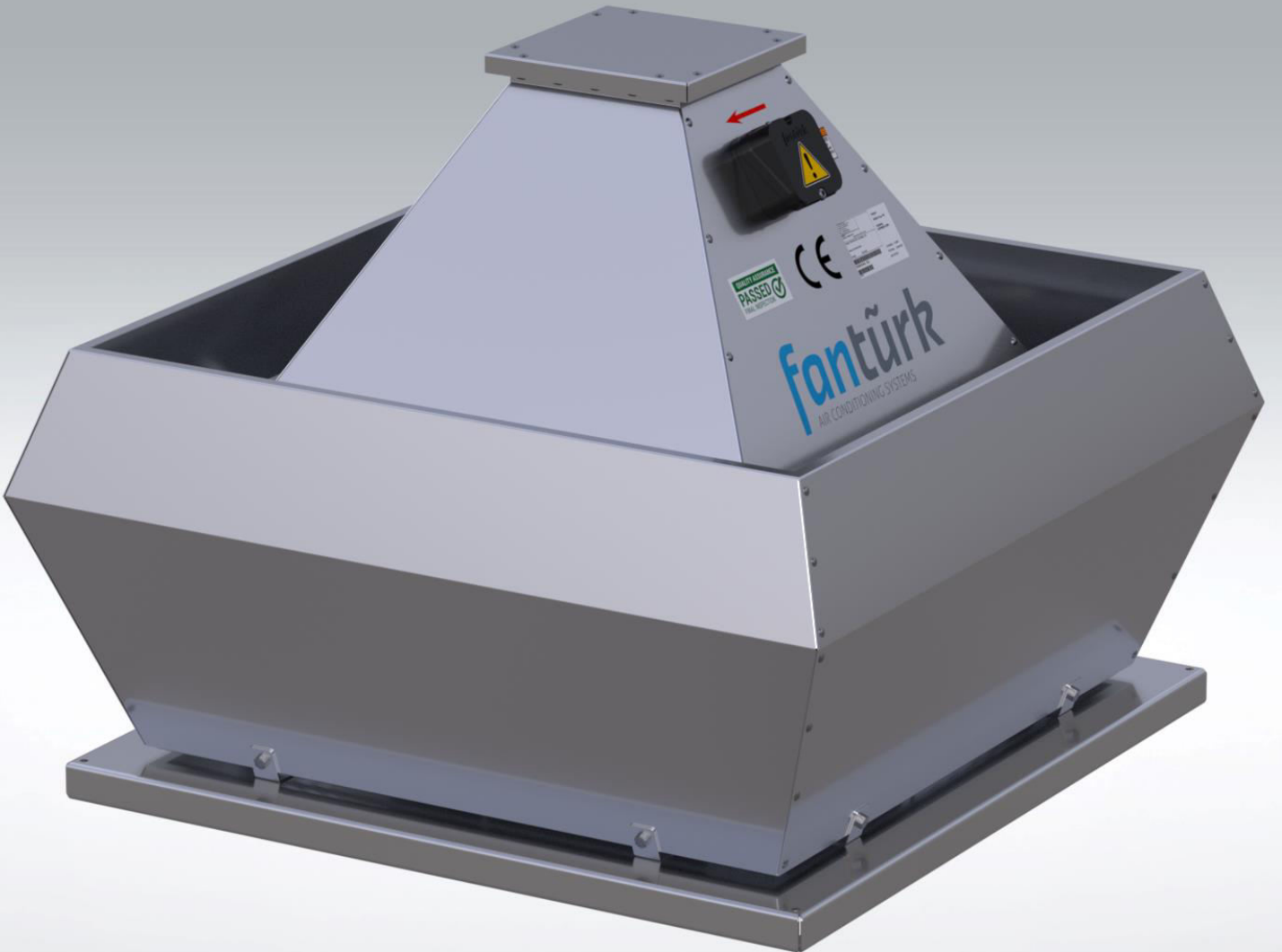


# ***Product Catalogue***





**ÇTF**  
*External Driven  
Roof Type Vertical  
Flow Radial Fan*



## Technical Specifications

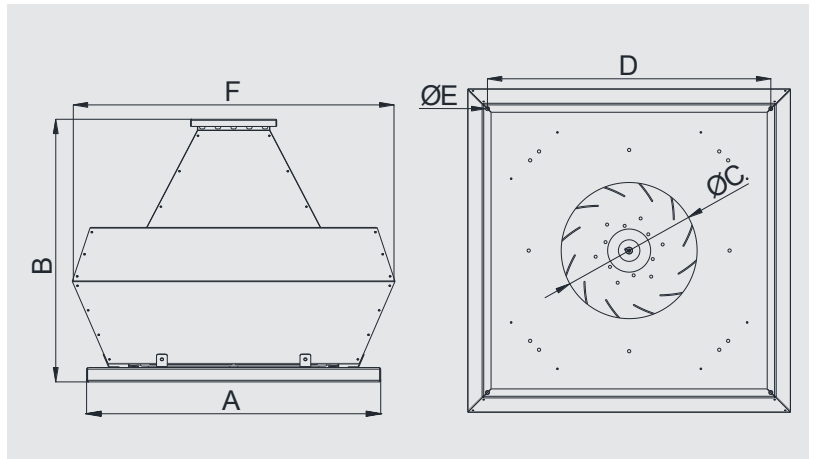
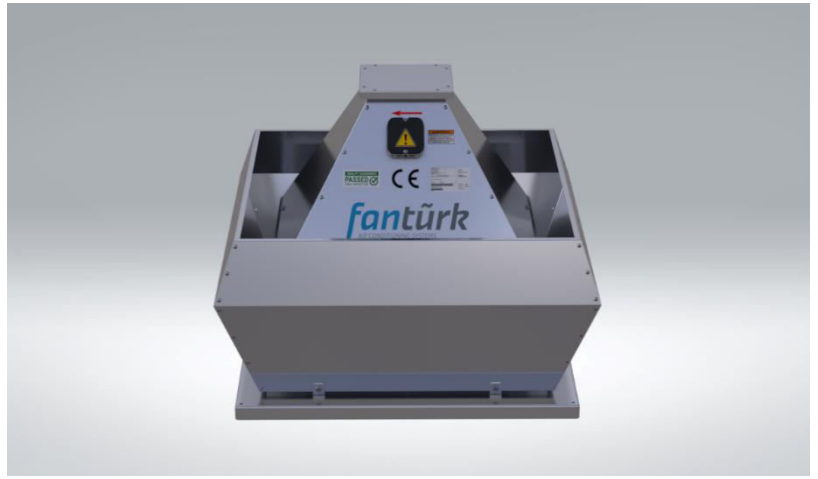
# EXTERNAL DRIVEN ROOF TYPE VERTICAL FLOW RADIAL FAN

ÇTF (380V) series roof type radial fans; are the ideal fans for roof installation in ventilation systems where high air flow and high pressure are required. Airflow is provided in the vertical direction thanks to a part mounted on the body.

Made of high quality corrosion resistant galvanized steel. Fans are radial fans with backward curved blades. Motors are three-phase and have 4 pole, IP55 and Class F insulation. Due to the fact that the motor is out of the air flow, it is protected from the factors that will damage the motor or hot air. This method provides 120 ° C continuous operation. Frequency controller is optional for all models.

### Usage Areas

Can be used in ventilation systems where the exhaust air is likely to damage the motor, in oily exhaust air from kitchens, and all kinds of industrial buildings, office and residential buildings.

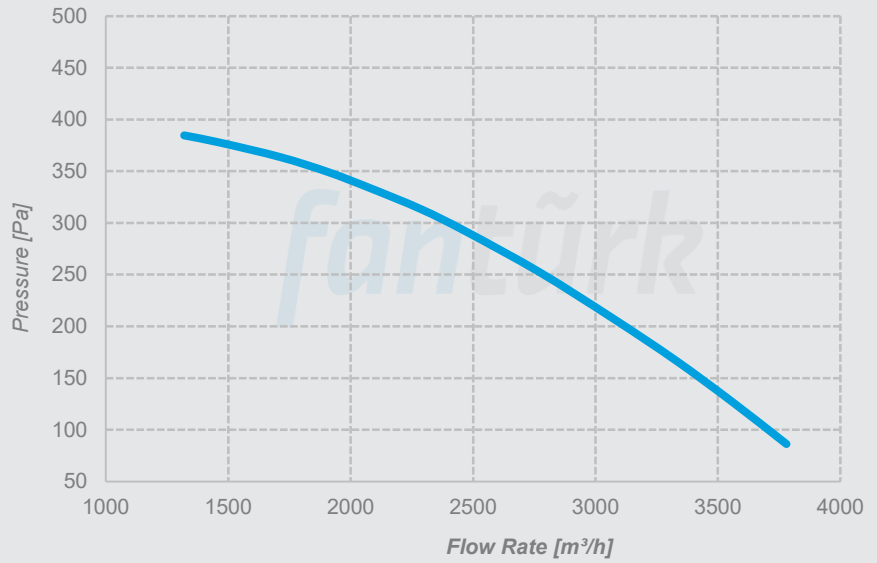


MODEL	A	B	C	D	E	F	VOLTAGE	FREQUENCY	MOTOR POWER	CURRENT	MOTOR SPEED	FLOW RATE	PRESSURE	SOUND PRESSURE LEVEL	WEIGHT
	mm	mm	mm	mm	mm	mm	V	Hz	kW	A	rpm	m <sup>3</sup> /h	Pa	dB(A)	kg
ÇTF 250/0.37	620	583	257	590	9	800	380	50	0,37	1,2	1360	3000	250	62	65
ÇTF 280/0.55	680	603	260	640	9	800	380	50	0,55	1,6	1370	4500	250	64	70
ÇTF 315/1.1	720	642	291	690	9	850	380	50	1,1	2,6	1390	6000	250	67	81
ÇTF 355/2.2	820	751	379	790	9	900	380	50	2,2	5,2	1420	9000	250	69	92
ÇTF 400/1.1	870	761	395	840	9	950	380	50	1,1	2,9	930	9000	250	60	99
ÇTF 400/4	870	761	395	840	9	950	380	50	4	8,2	1430	12000	250	70	119
ÇTF 450/2.2	950	936	430	920	9	1150	380	50	2,2	5,4	950	12000	250	63	151
ÇTF 450/5.5	950	936	430	920	9	1150	380	50	5,5	11,2	1440	15000	250	71	159
ÇTF 450/7.5	950	936	430	920	9	1150	380	50	7,5	15,4	1450	18000	250	72	172

# Performance Curves

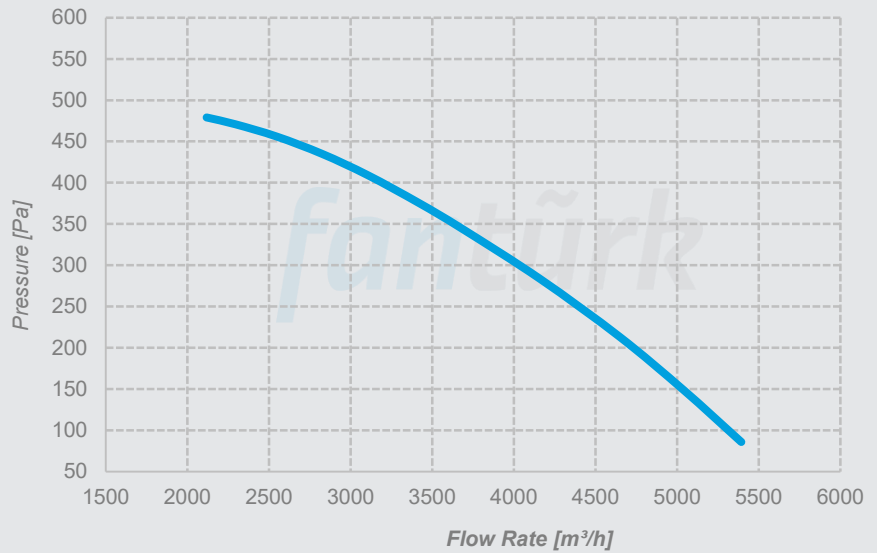
## ÇTF 250/0,37

Voltage 380 V  
Frequency 50 Hz  
Motor Power 0,25 kW  
Motor Speed 1360 rpm  
Sound Pressure Level 62 dBA  
Weight 55 kg



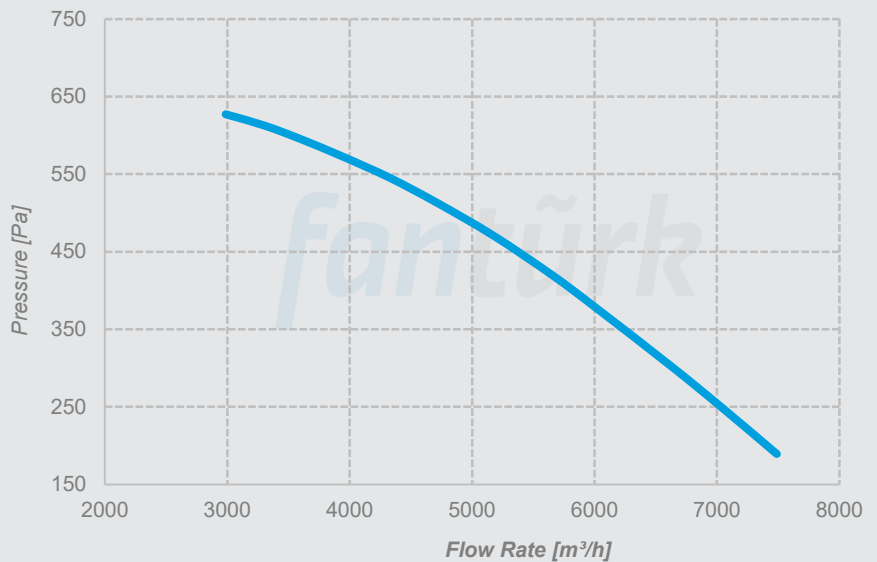
## ÇTF 280/0,55

Voltage 380 V  
Frequency 50 Hz  
Motor Power 0,55 kW  
Motor Speed 1370 rpm  
Sound Pressure Level 64 dBA  
Weight 60 kg



## ÇTF 315/1,1

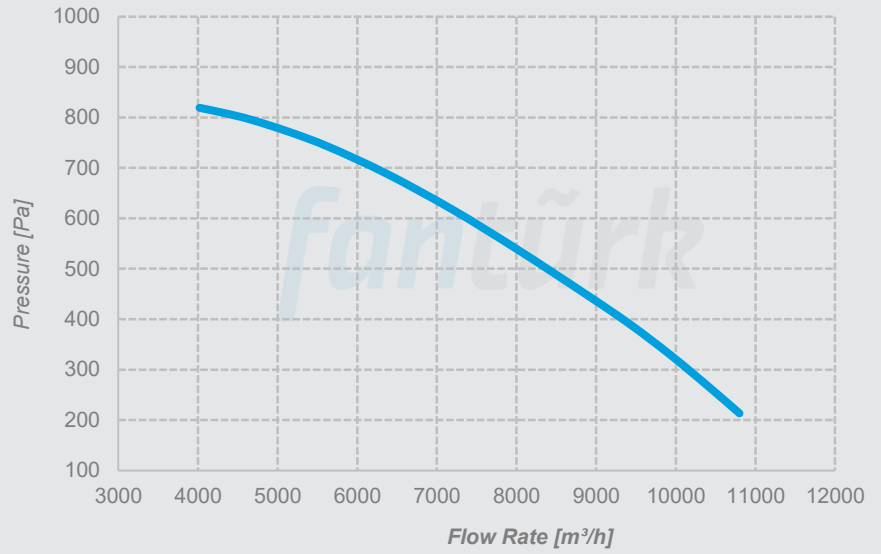
Voltage 380 V  
Frequency 50 Hz  
Motor Power 1,1 kW  
Motor Speed 1390 rpm  
Sound Pressure Level 67 dBA  
Weight 70 kg



## Performance Curves

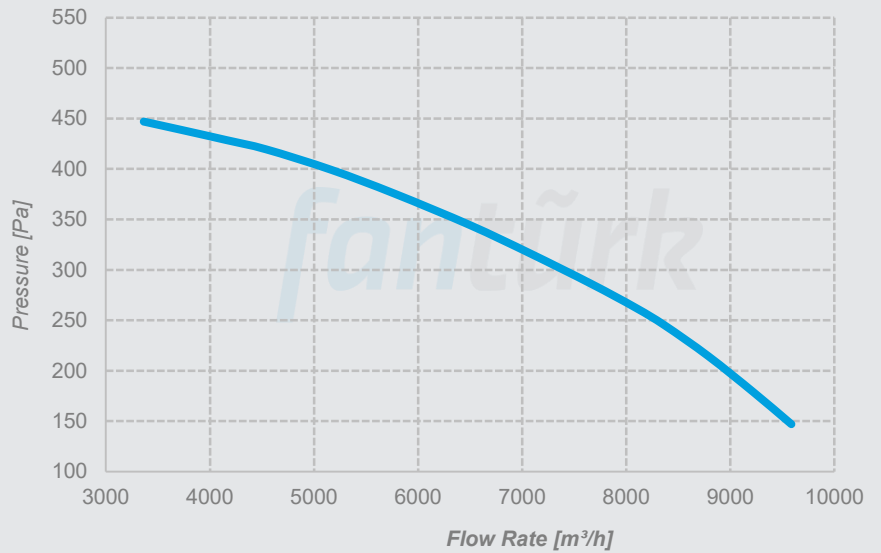
### ÇTF 355/2,2

Voltage 380 V  
Frequency 50 Hz  
Motor Power 2,2 kW  
Motor Speed 1420 rpm  
Sound Pressure Level 69 dBA  
Weight 80 kg



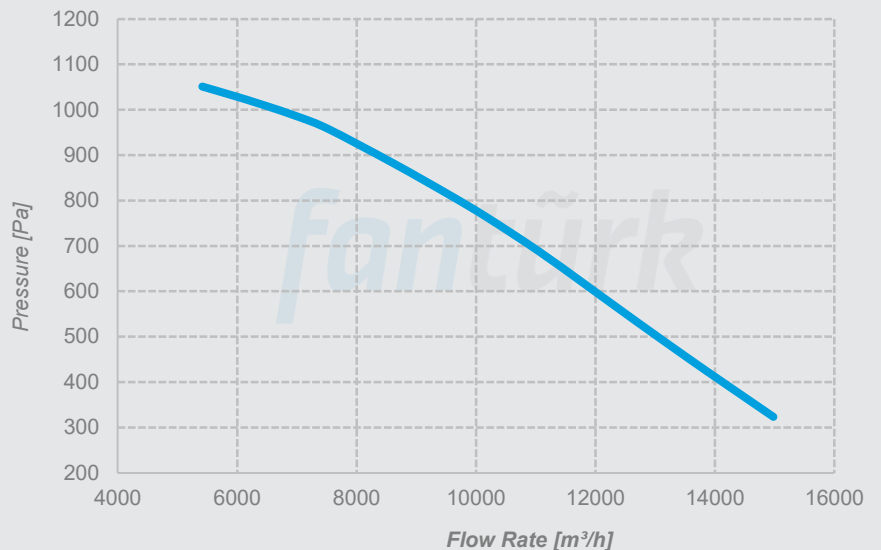
### ÇTF 400/1,1

Voltage 380 V  
Frequency 50 Hz  
Motor Power 1,1 kW  
Motor Speed 930 rpm  
Sound Pressure Level 60 dBA  
Weight 85 kg



### ÇTF 400/4

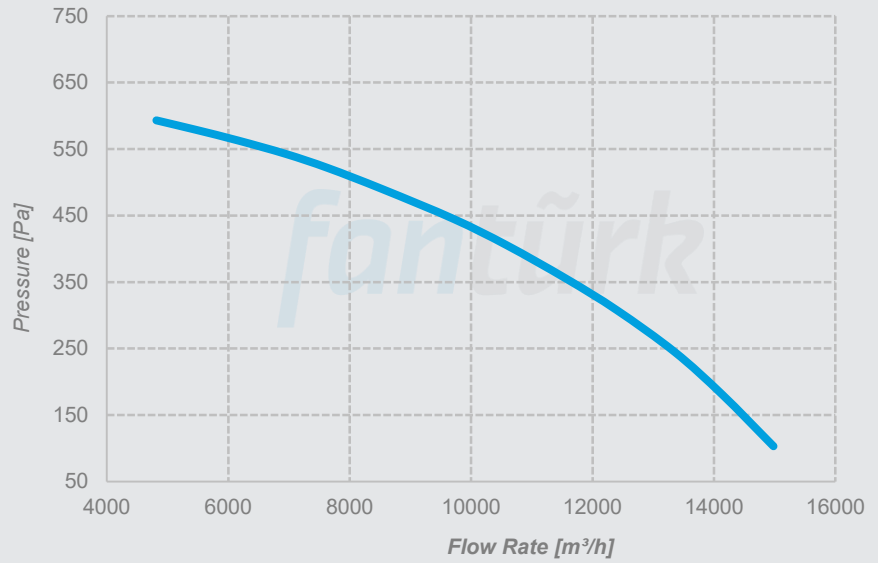
Voltage 380 V  
Frequency 50 Hz  
Motor Power 4 kW  
Motor Speed 1430 rpm  
Sound Pressure Level 70 dBA  
Weight 105 kg



## Performance Curves

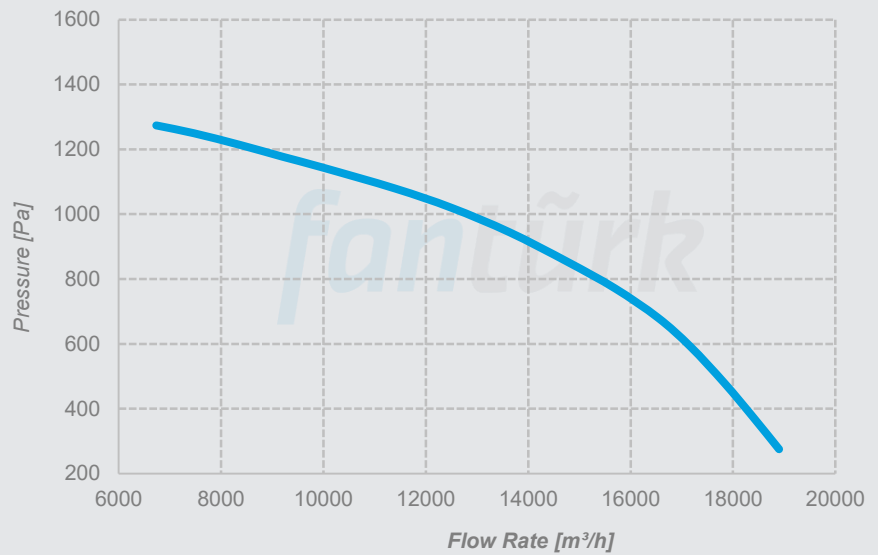
### ÇTF 450/2,2

Voltage 380 V  
Frequency 50 Hz  
Motor Power 2,2 kW  
Motor Speed 950 rpm  
Sound Pressure Level 68 dBA  
Weight 130 kg



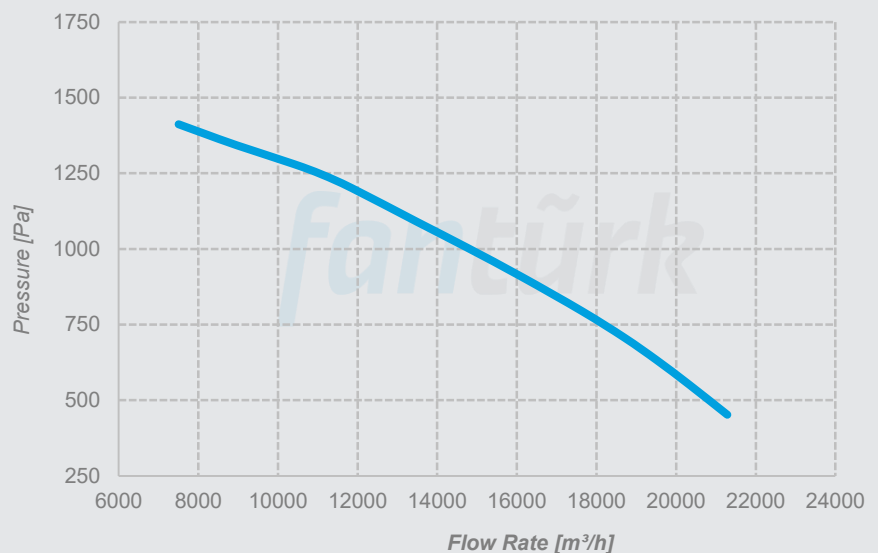
### ÇTF 450/5,5

Voltage 380 V  
Frequency 50 Hz  
Motor Power 5,5 kW  
Motor Speed 1440 rpm  
Sound Pressure Level 63 dBA  
Weight 130 kg



### ÇTF 450/7,5

Voltage 380 V  
Frequency 50 Hz  
Motor Power 7,5 kW  
Motor Speed 1450 rpm  
Sound Pressure Level 72 dBA  
Weight 151 kg



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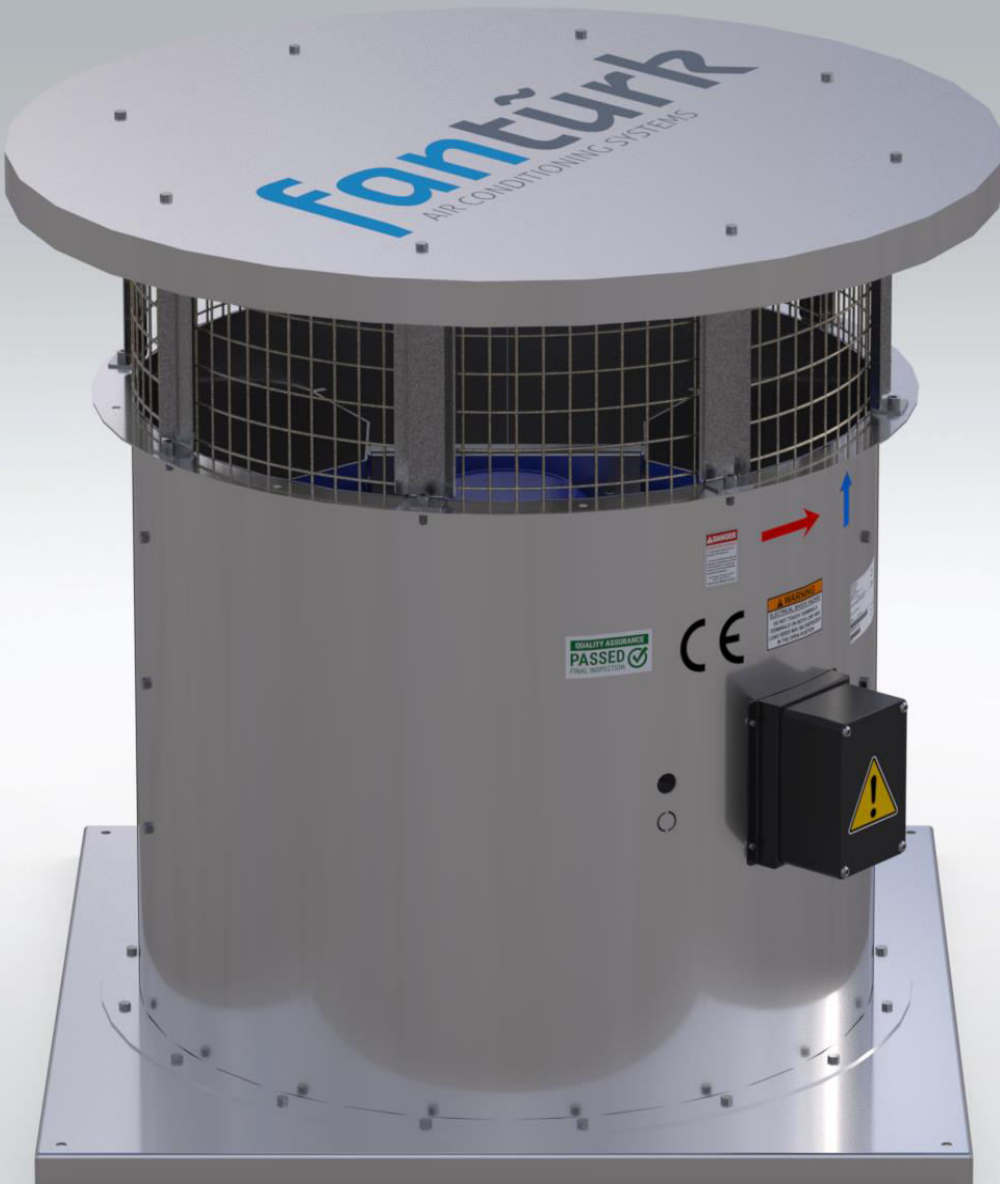
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# ***Product Catalogue***



# Ç-FWA Roof Type Axial Fan





## Technical Specifications

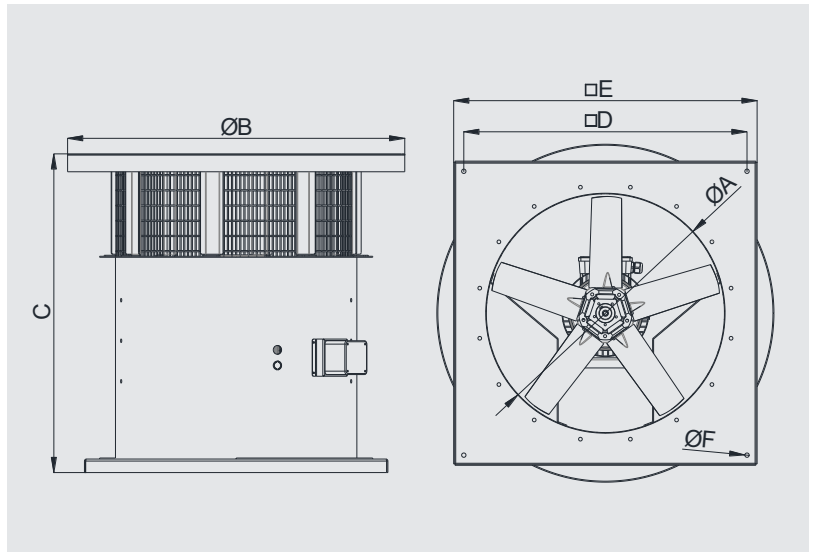
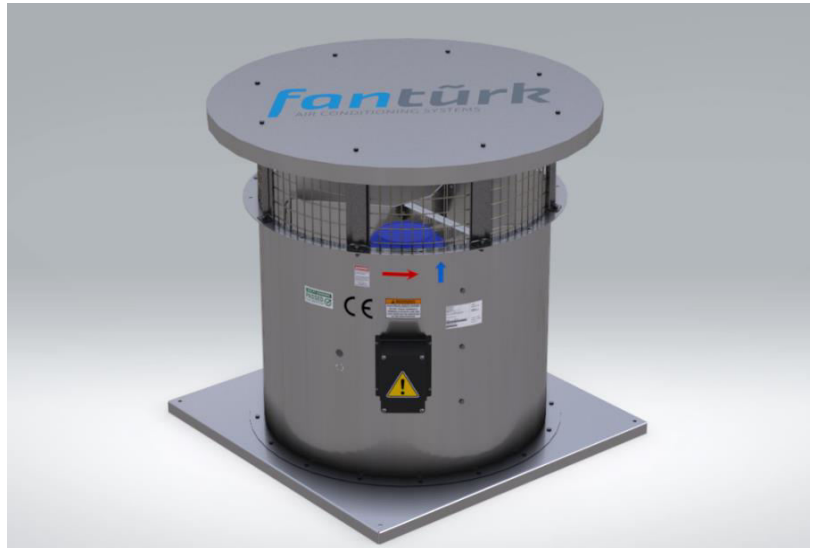
# ROOF TYPE AXIAL FAN

Ç-FWA series roof type axial fans are the ideal fans for roof installation for ventilation systems where high air flow is required. Thanks to their compact construction, they can be mounted directly on the roof floor. Ç-FWA axial fans can be used not only for fresh air and exhaust ventilation, but also for smoke extraction applications. With wide selection of models, Ç-FWA models offer working range of 4000 m<sup>3</sup>/h – 140.000 m<sup>3</sup>/h in different pressure range.

It is manufactured between Ø400 mm and Ø1250 mm diameters. The body is made of high quality, corrosion-resistant galvanized steel. The propellers are made of special aluminum alloy with adjustable blade angles. It is manufactured as standard (380V-50Hz) or suitable for use at other voltages and frequencies upon demand. Class F, S1, IP55 single speed or double speed motors are used. In addition to the normal motor option, Ex-Proof and Smoke Exhaust (F300/2h, F400/2h) options are available. With optional silencer can be added to reduce the sound pressure level.

### Usage Areas

Can be used in all kinds of industrial building, office, shopping mall, hospital, factory, parking and residential building ventilation systems.

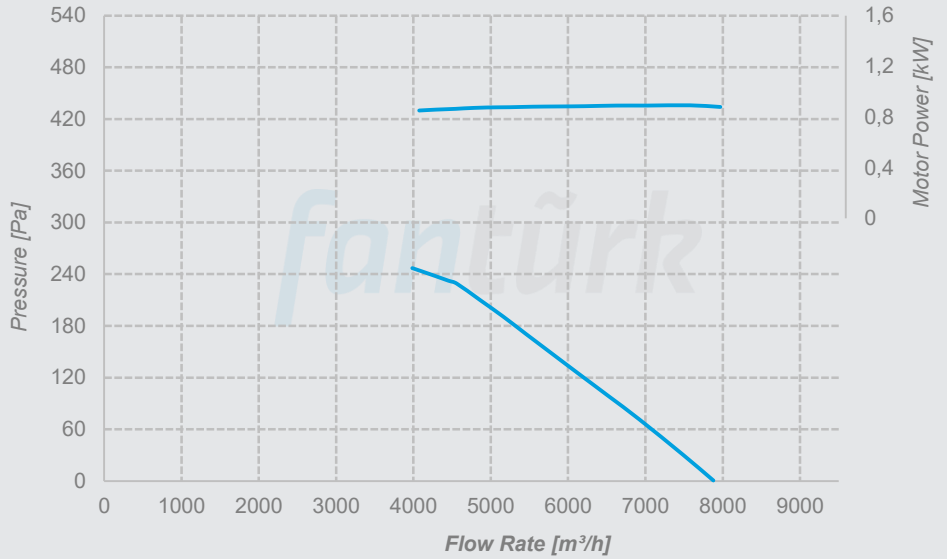


MODEL	A	B	C	D	E	F	VOLTAGE	FREQUENCY
	mm	mm	mm	mm	mm	mm	V	Hz
Ç-FWA 400	400	700	795	540	600	13	380	50
Ç-FWA 450	450	750	795	590	650	13	380	50
Ç-FWA 500	500	800	895	640	700	13	380	50
Ç-FWA 560	560	850	895	690	750	13	380	50
Ç-FWA 630	630	930	895	770	830	13	380	50
Ç-FWA 710	710	1000	945	840	900	13	380	50
Ç-FWA 800	800	1100	945	940	1000	13	380	50
Ç-FWA 900	900	1200	1095	1040	1100	13	380	50
Ç-FWA 1000	1000	1300	1195	1140	1200	13	380	50
Ç-FWA 1120	1120	1490	1505	1260	1320	13	380	50
Ç-FWA 1250	1250	1490	1505	1350	1410	13	380	50

# Performance Curves of Devices with Axial Fan

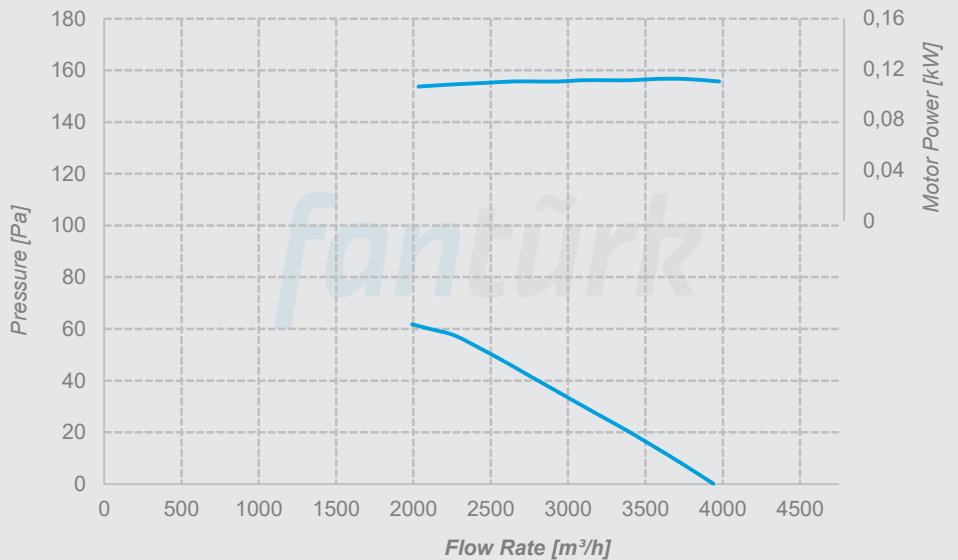
**P-FWA 400**  
**Y-FWA 400**  
**H-FWA 400**  
**Ç-FWA 400**

Nos. of Blades 3  
 Hub Size 6  
 Pitch Angle 45°  
 Nos. of Poles 2  
 Material Aluminum



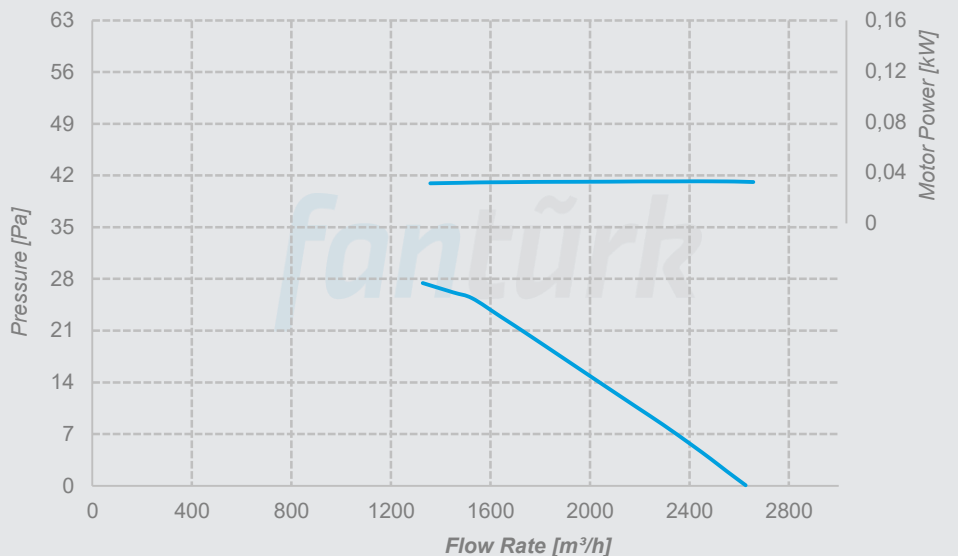
**P-FWA 400**  
**Y-FWA 400**  
**H-FWA 400**  
**Ç-FWA 400**

Nos. of Blades 3  
 Hub Size 6  
 Pitch Angle 45°  
 Nos. of Poles 4  
 Material Aluminum



**P-FWA 400**  
**Y-FWA 400**  
**H-FWA 400**  
**Ç-FWA 400**

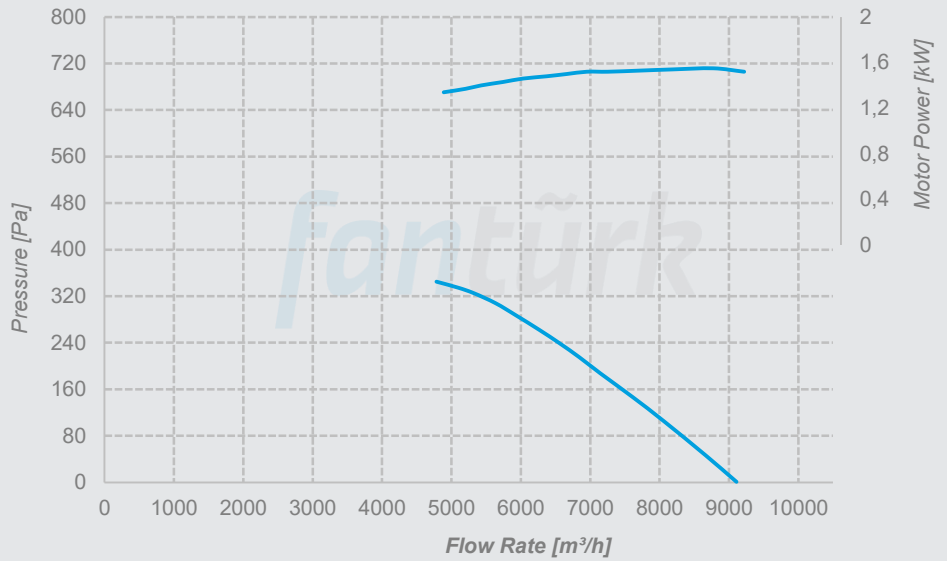
Nos. of Blades 3  
 Hub Size 6  
 Pitch Angle 45°  
 Nos. of Poles 6  
 Material Aluminum



# Performance Curves

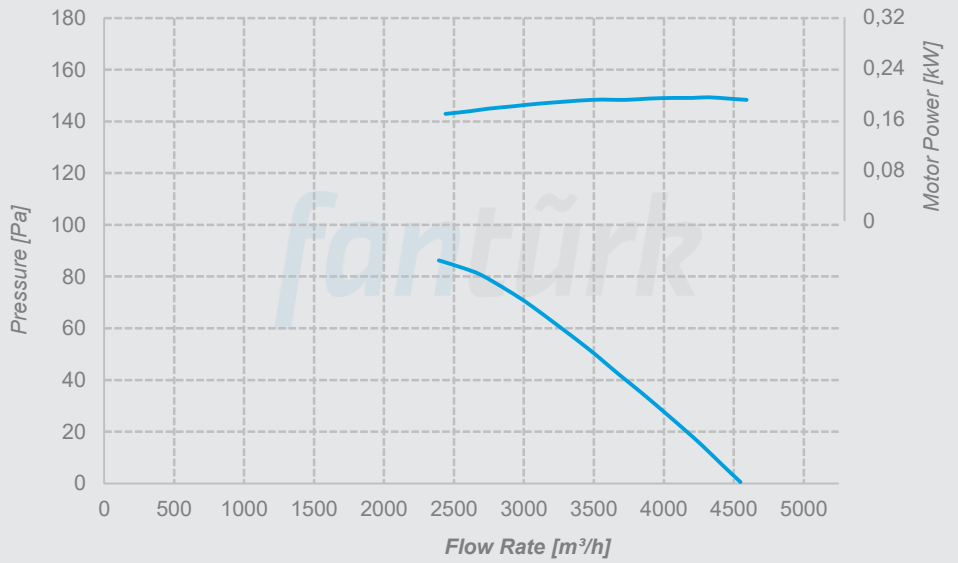
**P-FWA 400**  
**Y-FWA 400**  
**H-FWA 400**  
**Ç-FWA 400**

Nos. of Blades 6  
 Hub Size 6  
 Pitch Angle 45°  
 Nos. of Poles 2  
 Material Aluminum



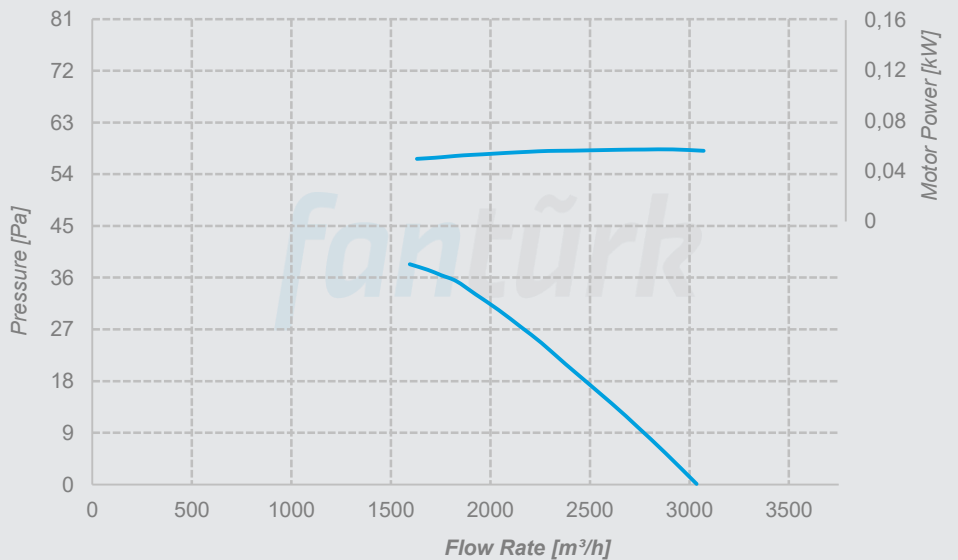
**P-FWA 400**  
**Y-FWA 400**  
**H-FWA 400**  
**Ç-FWA 400**

Nos. of Blades 6  
 Hub Size 6  
 Pitch Angle 45°  
 Nos. of Poles 4  
 Material Aluminum



**P-FWA 400**  
**Y-FWA 400**  
**H-FWA 400**  
**Ç-FWA 400**

Nos. of Blades 6  
 Hub Size 6  
 Pitch Angle 45°  
 Nos. of Poles 6  
 Material Aluminum

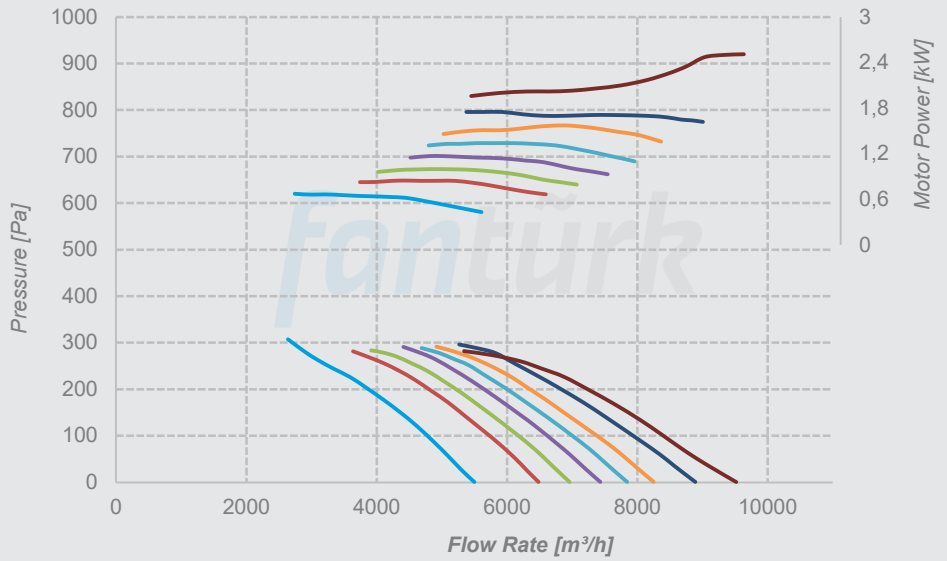


# Performance Curves

**P-FWA 400**  
**Y-FWA 400**  
**H-FWA 400**  
**Ç-FWA 400**

Nos. of Blades 5  
 Hub Size 5  
 Nos. of Poles 2  
 Material Aluminum  
 Pitch Angle

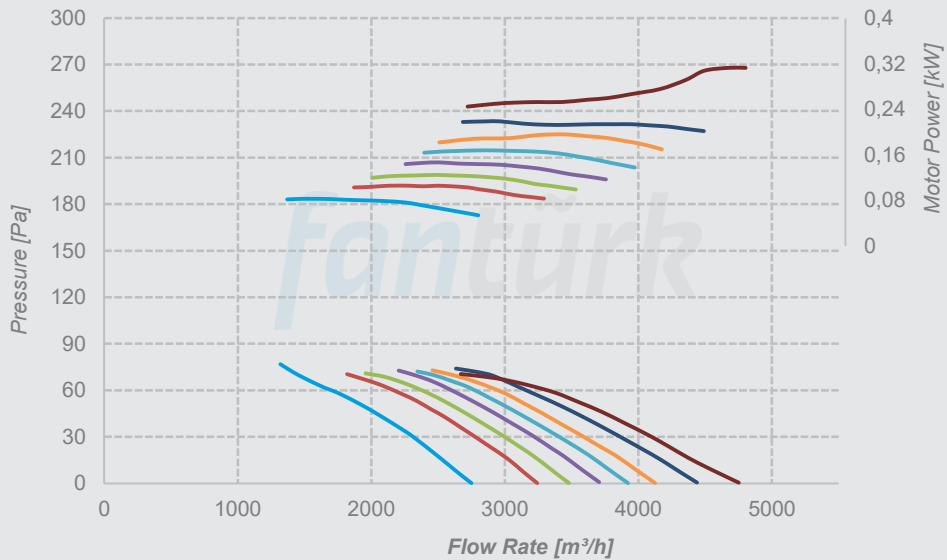
- 25°    — 30°    — 32,5°
- 35°    — 37,5°    — 40°
- 45°    — 50°



**P-FWA 400**  
**Y-FWA 400**  
**H-FWA 400**  
**Ç-FWA 400**

Nos. of Blades 5  
 Hub Size 5  
 Nos. of Poles 4  
 Material Aluminum  
 Pitch Angle

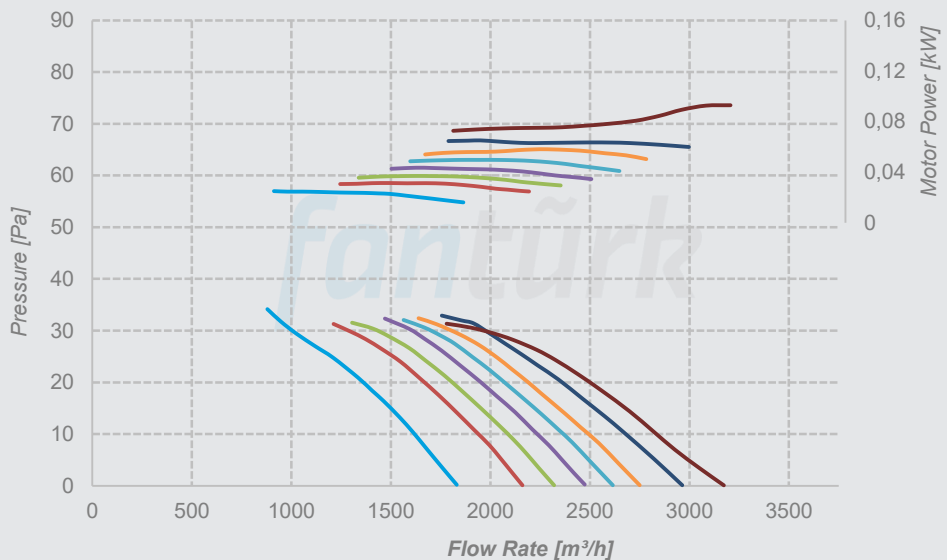
- 25°    — 30°    — 32,5°
- 35°    — 37,5°    — 40°
- 45°    — 50°



**P-FWA 400**  
**Y-FWA 400**  
**H-FWA 400**  
**Ç-FWA 400**

Nos. of Blades 5  
 Hub Size 5  
 Nos. of Poles 6  
 Material Aluminum  
 Pitch Angle

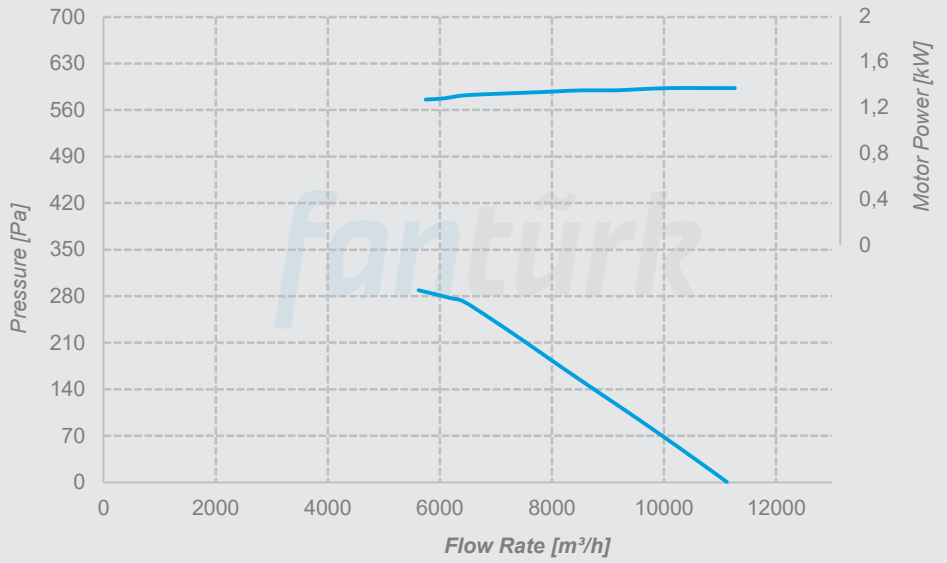
- 25°    — 30°    — 32,5°
- 35°    — 37,5°    — 40°
- 45°    — 50°



# Performance Curves

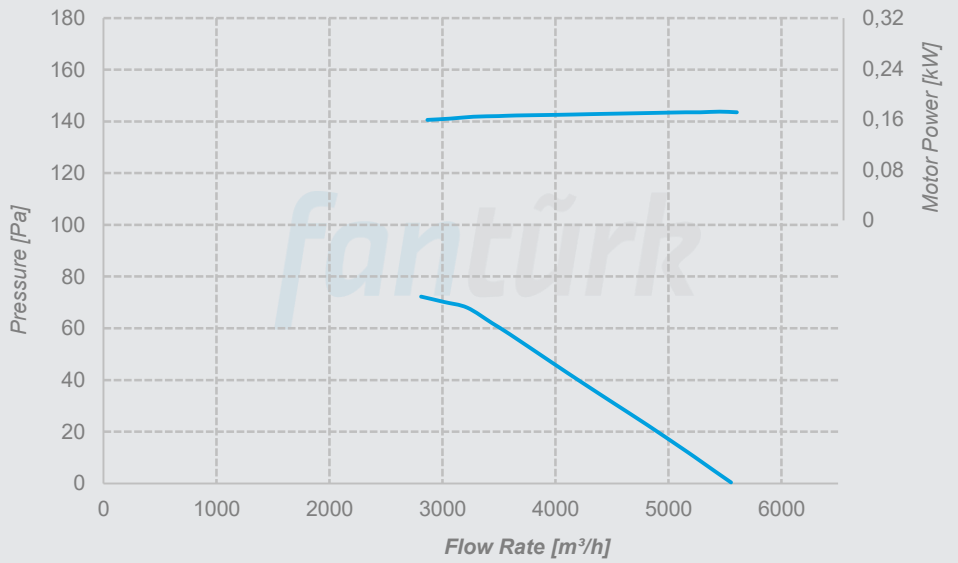
**P-FWA 450**  
**Y-FWA 450**  
**H-FWA 450**  
**Ç-FWA 450**

Nos. of Blades 3  
 Hub Size 6  
 Pitch Angle 45°  
 Nos. of Poles 2  
 Material Aluminum



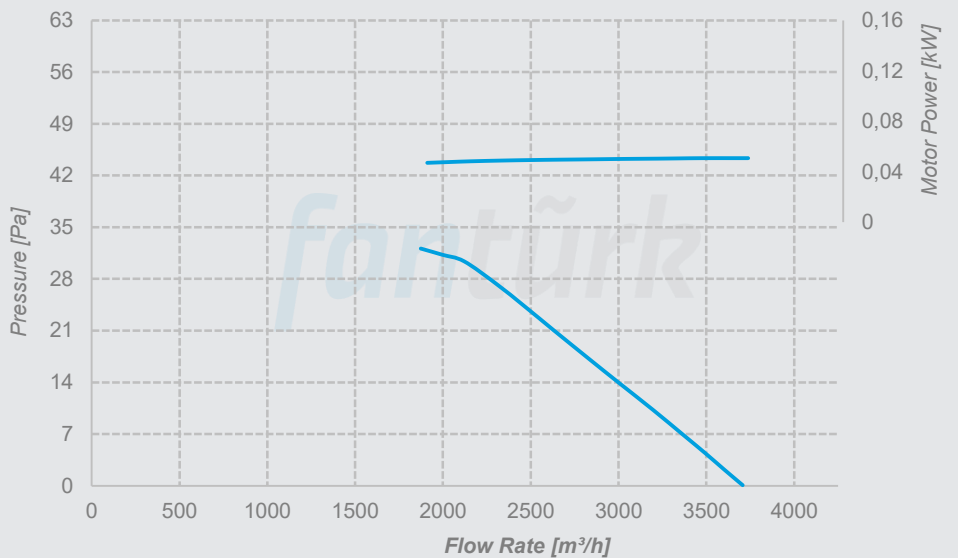
**P-FWA 450**  
**Y-FWA 450**  
**H-FWA 450**  
**Ç-FWA 450**

Nos. of Blades 3  
 Hub Size 6  
 Pitch Angle 45°  
 Nos. of Poles 4  
 Material Aluminum



**P-FWA 450**  
**Y-FWA 450**  
**H-FWA 450**  
**Ç-FWA 450**

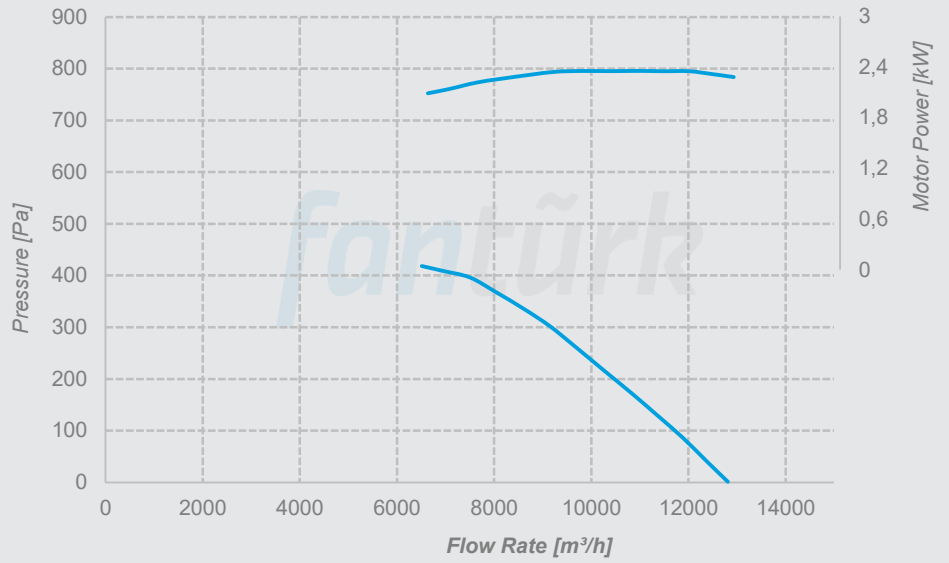
Nos. of Blades 3  
 Hub Size 6  
 Pitch Angle 45°  
 Nos. of Poles 6  
 Material Aluminum



# Performance Curves

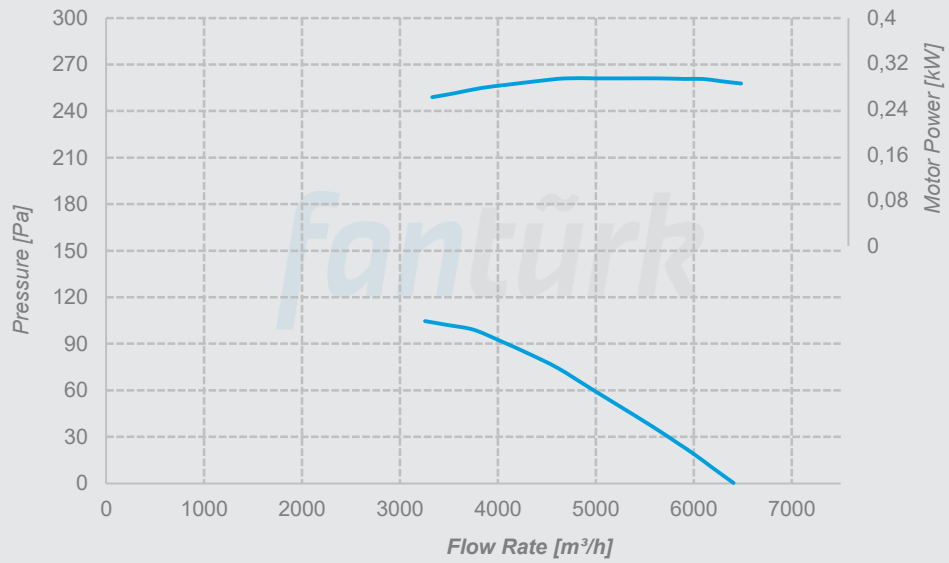
**P-FWA 450**  
**Y-FWA 450**  
**H-FWA 450**  
**Ç-FWA 450**

Nos. of Blades 6  
 Hub Size 6  
 Pitch Angle 45°  
 Nos. of Poles 2  
 Material Aluminum



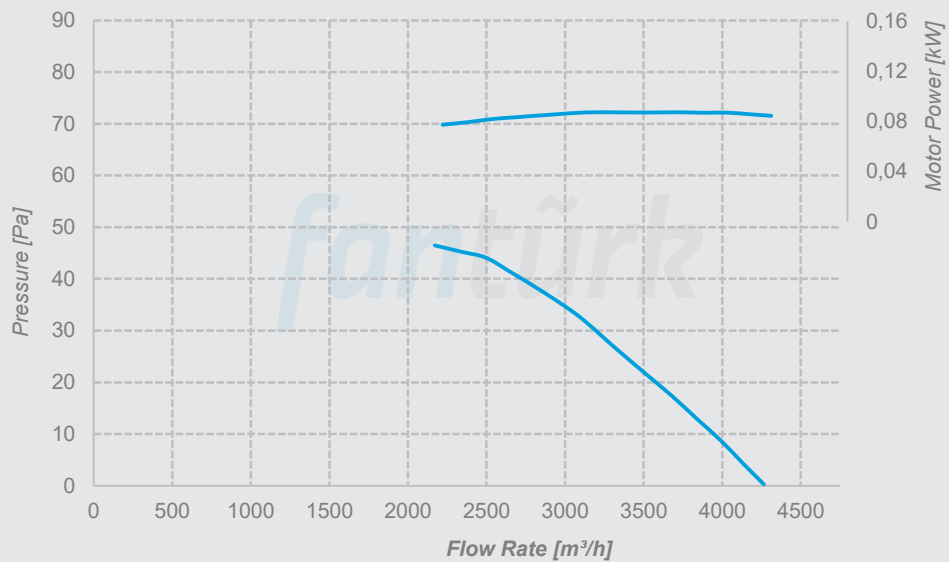
**P-FWA 450**  
**Y-FWA 450**  
**H-FWA 450**  
**Ç-FWA 450**

Nos. of Blades 6  
 Hub Size 6  
 Pitch Angle 45°  
 Nos. of Poles 4  
 Material Aluminum



**P-FWA 450**  
**Y-FWA 450**  
**H-FWA 450**  
**Ç-FWA 450**

Nos. of Blades 6  
 Hub Size 6  
 Pitch Angle 45°  
 Nos. of Poles 6  
 Material Aluminum

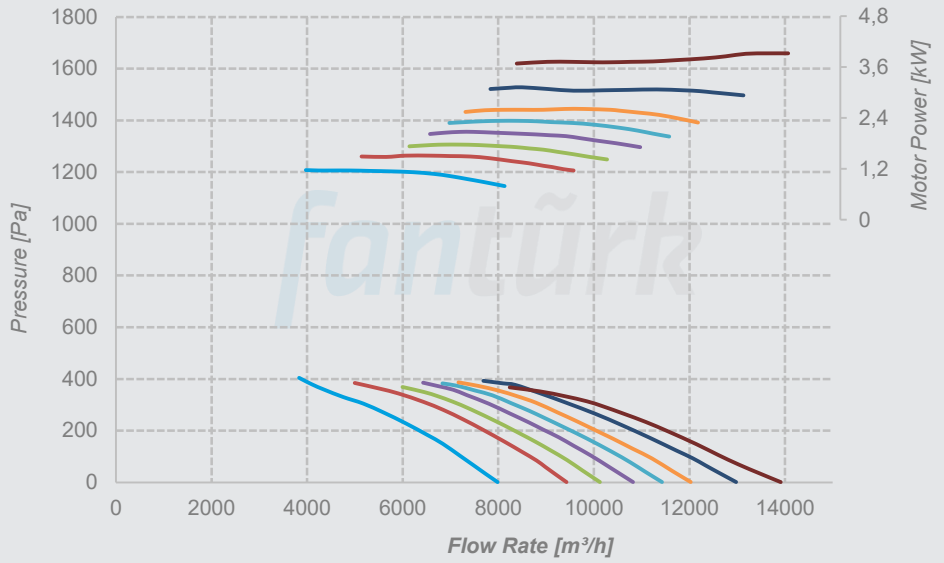


# Performance Curves

**P-FWA 450**  
**Y-FWA 450**  
**H-FWA 450**  
**Ç-FWA 450**

Nos. of Blades 5  
 Hub Size 5  
 Nos. of Poles 2  
 Material Aluminum  
 Pitch Angle

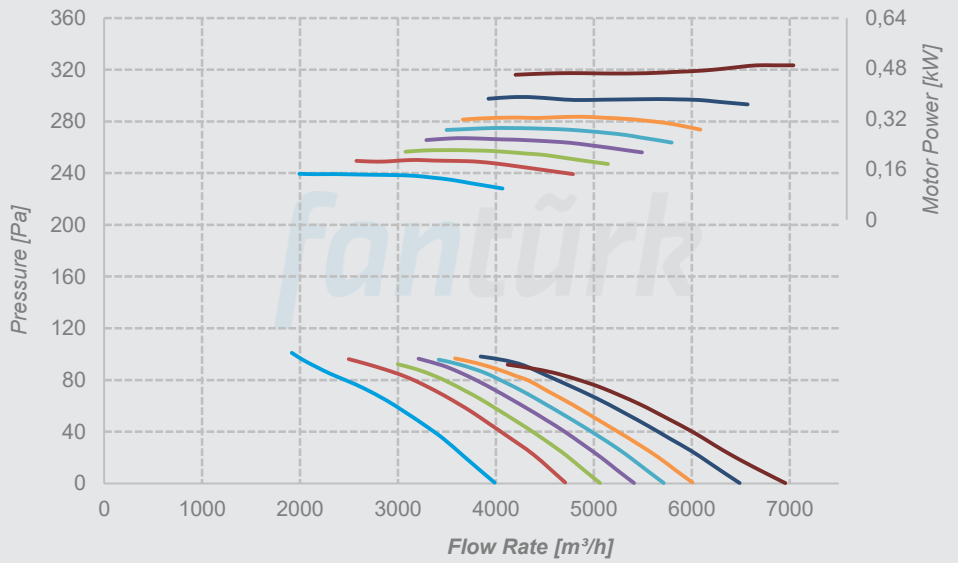
— 25° — 30° — 32,5°  
 — 35° — 37,5° — 40°  
 — 45° — 50°



**P-FWA 450**  
**Y-FWA 450**  
**H-FWA 450**  
**Ç-FWA 450**

Nos. of Blades 5  
 Hub Size 5  
 Nos. of Poles 4  
 Material Aluminum  
 Pitch Angle

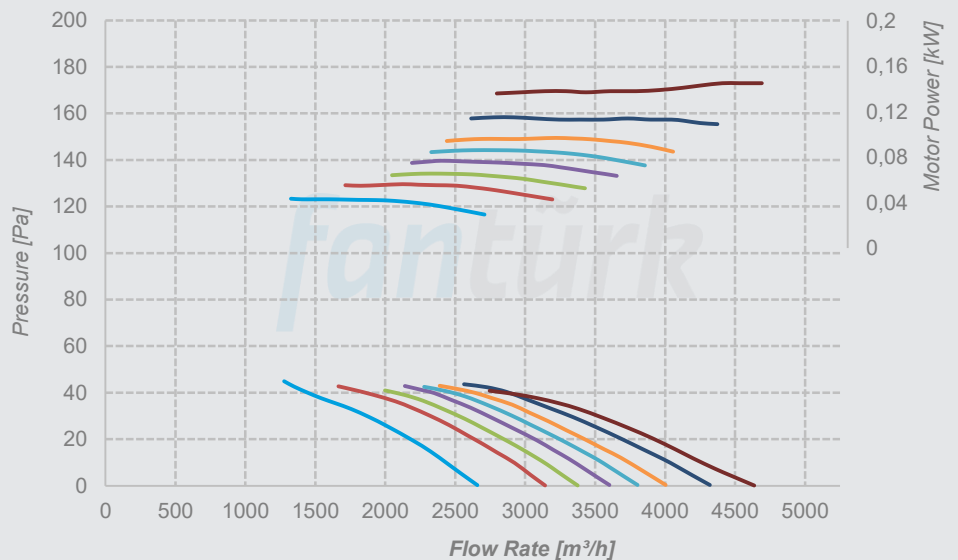
— 25° — 30° — 32,5°  
 — 35° — 37,5° — 40°  
 — 45° — 50°



**P-FWA 450**  
**Y-FWA 450**  
**H-FWA 450**  
**Ç-FWA 450**

Nos. of Blades 5  
 Hub Size 5  
 Nos. of Poles 6  
 Material Aluminum  
 Pitch Angle

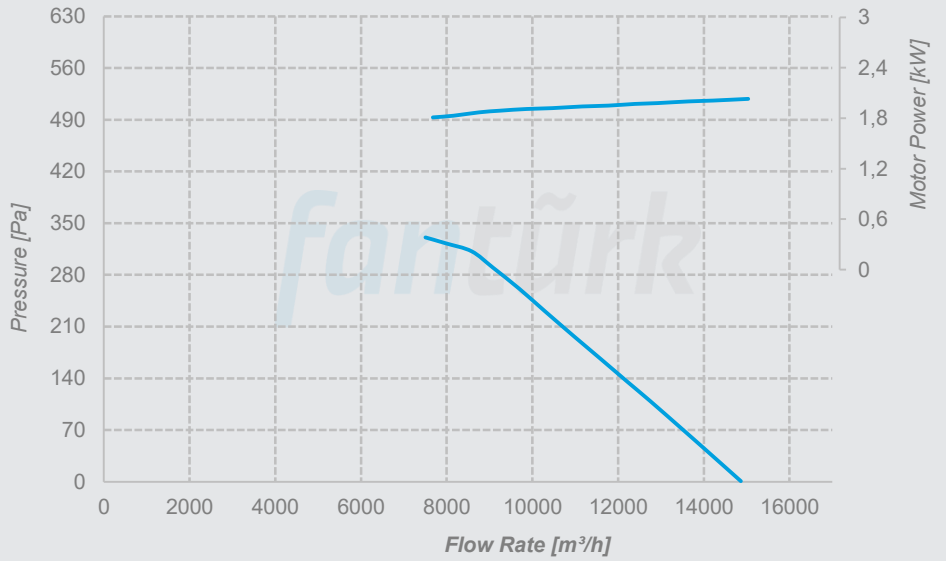
— 25° — 30° — 32,5°  
 — 35° — 37,5° — 40°  
 — 45° — 50°



# Performance Curves

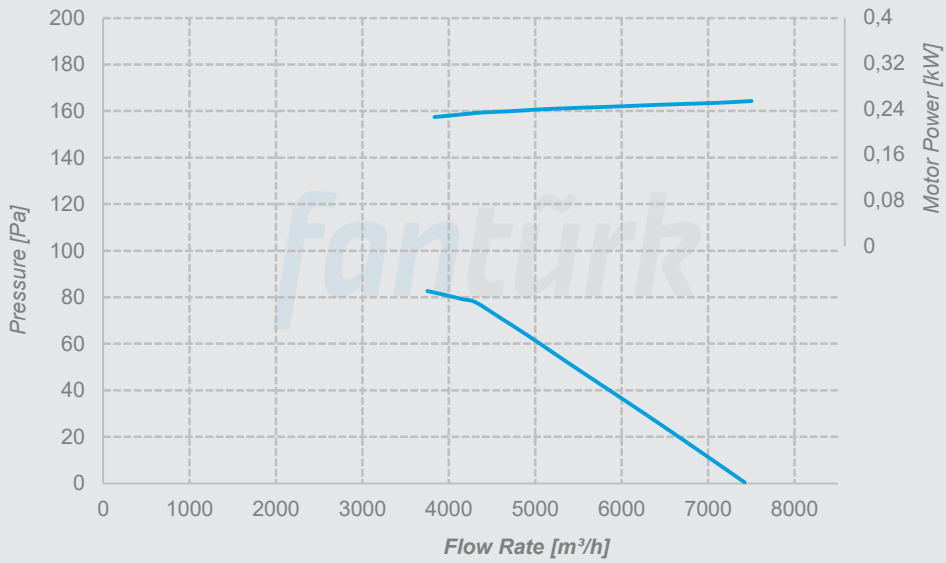
**P-FWA 500**  
**Y-FWA 500**  
**H-FWA 500**  
**Ç-FWA 500**

Nos. of Blades 3  
 Hub Size 6  
 Pitch Angle 45°  
 Nos. of Poles 2  
 Material Aluminum



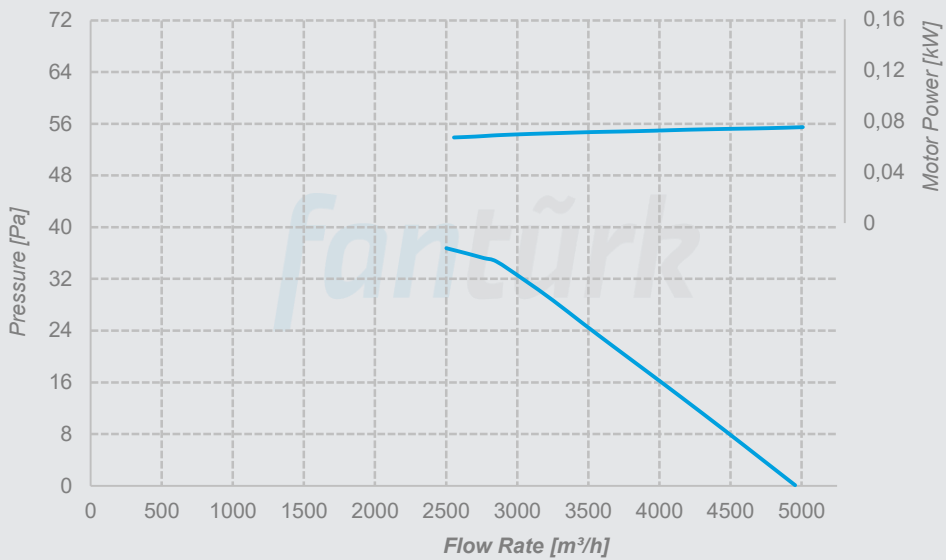
**P-FWA 500**  
**Y-FWA 500**  
**H-FWA 500**  
**Ç-FWA 500**

Nos. of Blades 3  
 Hub Size 6  
 Pitch Angle 45°  
 Nos. of Poles 4  
 Material Aluminum



**P-FWA 500**  
**Y-FWA 500**  
**H-FWA 500**  
**Ç-FWA 500**

Nos. of Blades 3  
 Hub Size 6  
 Pitch Angle 45°  
 Nos. of Poles 6  
 Material Aluminum

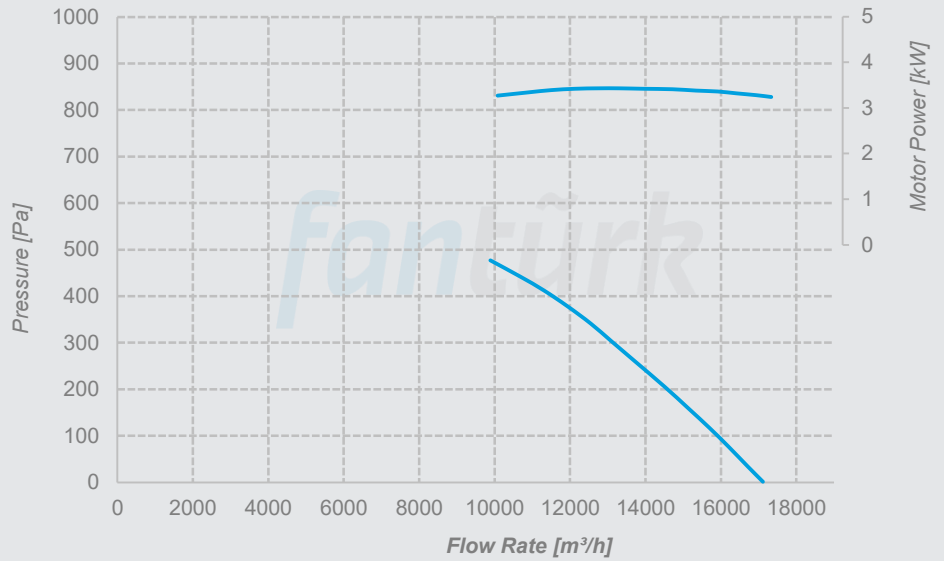




# Performance Curves

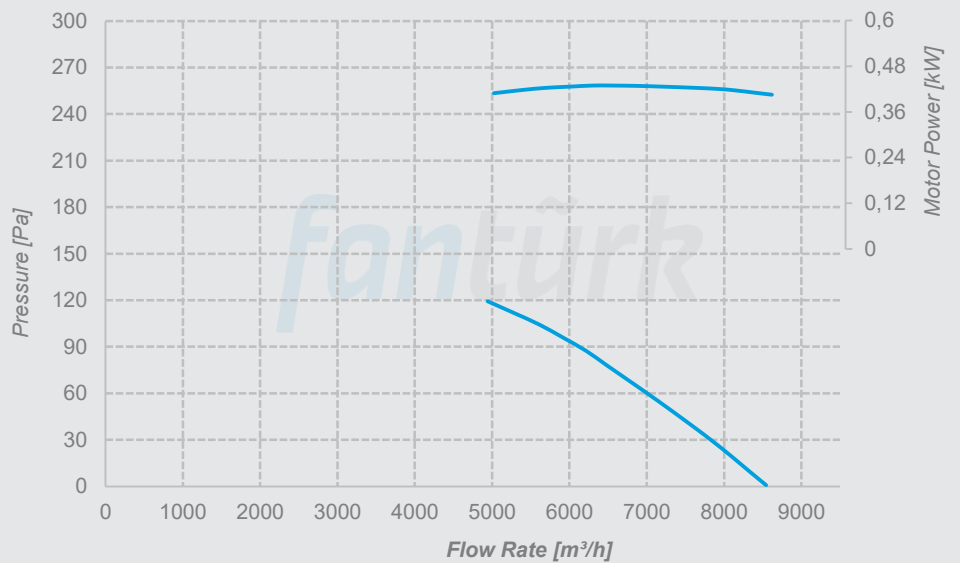
**P-FWA 500**  
**Y-FWA 500**  
**H-FWA 500**  
**Ç-FWA 500**

Nos. of Blades 6  
 Hub Size 6  
 Pitch Angle 45°  
 Nos. of Poles 2  
 Material Aluminum



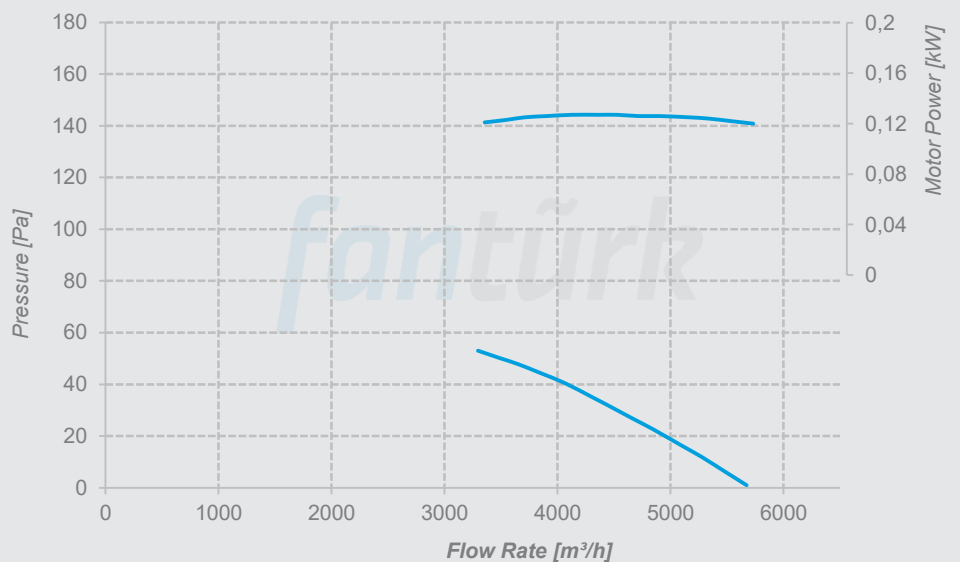
**P-FWA 500**  
**Y-FWA 500**  
**H-FWA 500**  
**Ç-FWA 500**

Nos. of Blades 6  
 Hub Size 6  
 Pitch Angle 45°  
 Nos. of Poles 4  
 Material Aluminum



**P-FWA 500**  
**Y-FWA 500**  
**H-FWA 500**  
**Ç-FWA 500**

Nos. of Blades 6  
 Hub Size 6  
 Pitch Angle 45°  
 Nos. of Poles 6  
 Material Aluminum

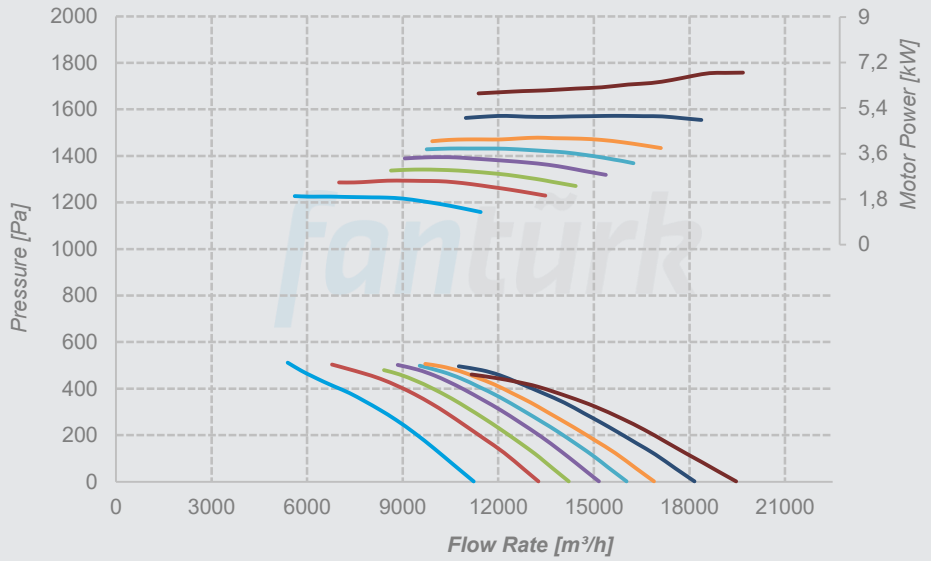


# Performance Curves

**P-FWA 500**  
**Y-FWA 500**  
**H-FWA 500**  
**Ç-FWA 500**

Nos. of Blades 5  
 Hub Size 5  
 Nos. of Poles 2  
 Material Aluminum  
 Pitch Angle

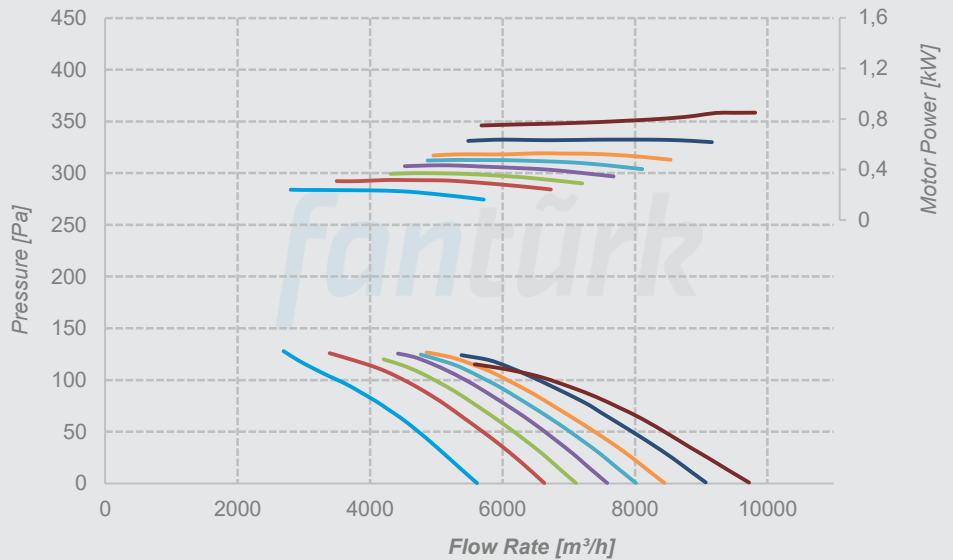
- 25°    — 30°    — 32,5°
- 35°    — 37,5°    — 40°
- 45°    — 50°



**P-FWA 500**  
**Y-FWA 500**  
**H-FWA 500**  
**Ç-FWA 500**

Nos. of Blades 5  
 Hub Size 5  
 Nos. of Poles 4  
 Material Aluminum  
 Pitch Angle

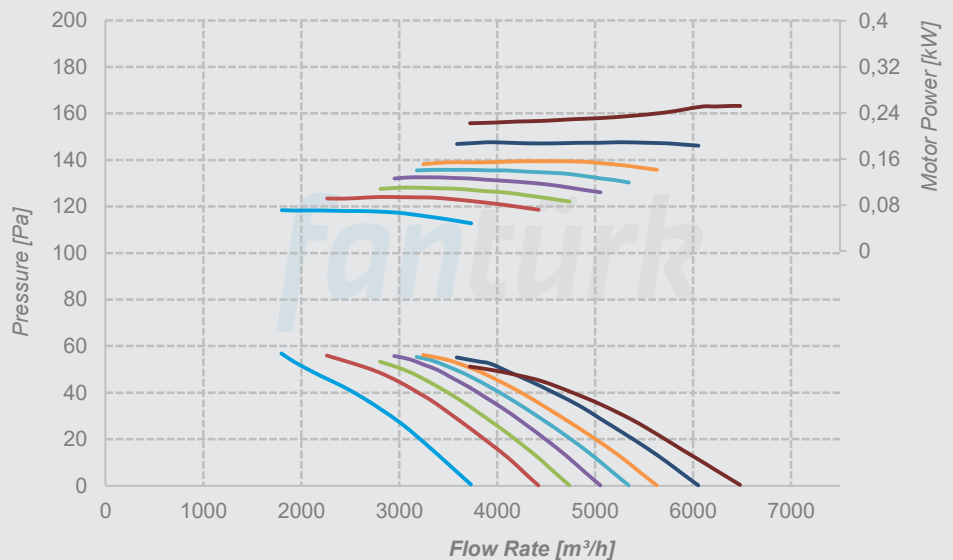
- 25°    — 30°    — 32,5°
- 35°    — 37,5°    — 40°
- 45°    — 50°



**P-FWA 500**  
**Y-FWA 500**  
**H-FWA 500**  
**Ç-FWA 500**

Nos. of Blades 5  
 Hub Size 5  
 Nos. of Poles 6  
 Material Aluminum  
 Pitch Angle

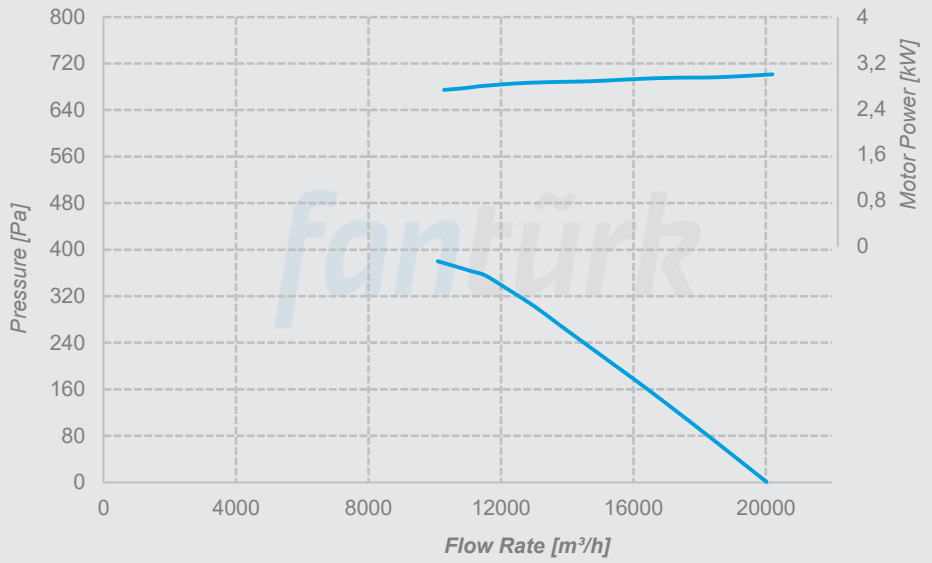
- 25°    — 30°    — 32,5°
- 35°    — 37,5°    — 40°
- 45°    — 50°



# Performance Curves

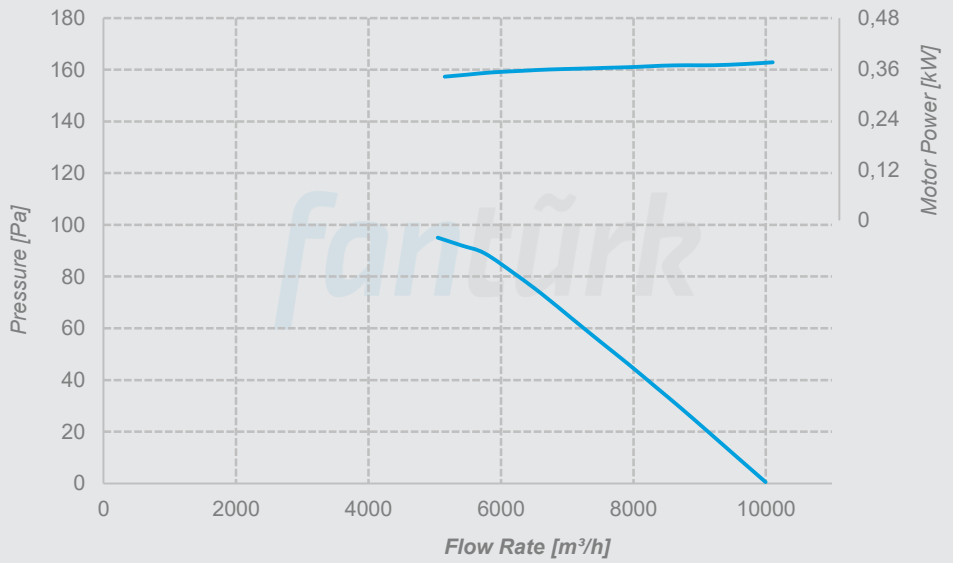
**P-FWA 560**  
**Y-FWA 560**  
**H-FWA 560**  
**Ç-FWA 560**

Nos. of Blades 3  
 Hub Size 6  
 Pitch Angle 45°  
 Nos. of Poles 2  
 Material Aluminum



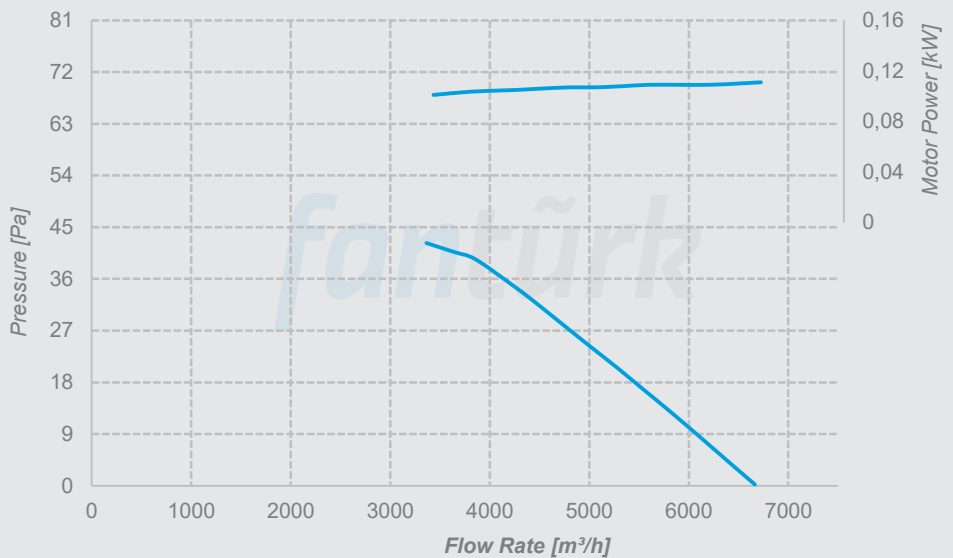
**P-FWA 560**  
**Y-FWA 560**  
**H-FWA 560**  
**Ç-FWA 560**

Nos. of Blades 3  
 Hub Size 6  
 Pitch Angle 45°  
 Nos. of Poles 4  
 Material Aluminum



**P-FWA 560**  
**Y-FWA 560**  
**H-FWA 560**  
**Ç-FWA 560**

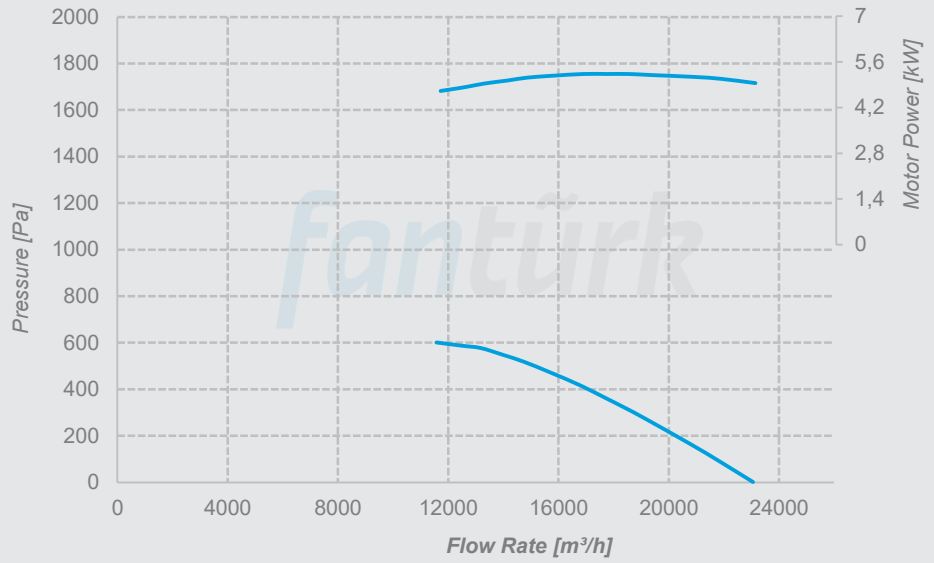
Nos. of Blades 3  
 Hub Size 6  
 Pitch Angle 45°  
 Nos. of Poles 6  
 Material Aluminum



# Performance Curves

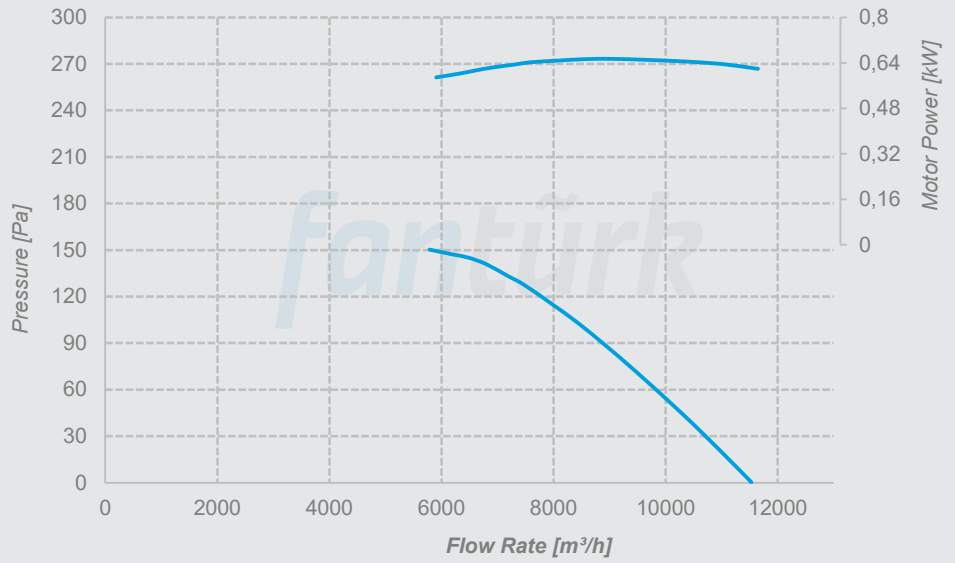
**P-FWA 560**  
**Y-FWA 560**  
**H-FWA 560**  
**Ç-FWA 560**

Nos. of Blades 6  
 Hub Size 6  
 Pitch Angle 45°  
 Nos. of Poles 2  
 Material Aluminum



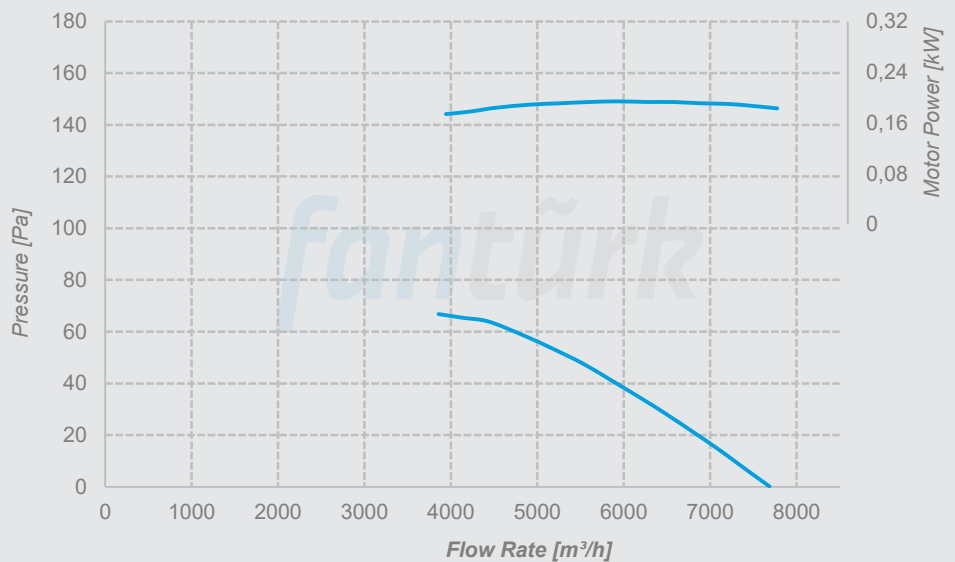
**P-FWA 560**  
**Y-FWA 560**  
**H-FWA 560**  
**Ç-FWA 560**

Nos. of Blades 6  
 Hub Size 6  
 Pitch Angle 45°  
 Nos. of Poles 4  
 Material Aluminum



**P-FWA 560**  
**Y-FWA 560**  
**H-FWA 560**  
**Ç-FWA 560**

Nos. of Blades 6  
 Hub Size 6  
 Pitch Angle 45°  
 Nos. of Poles 6  
 Material Aluminum

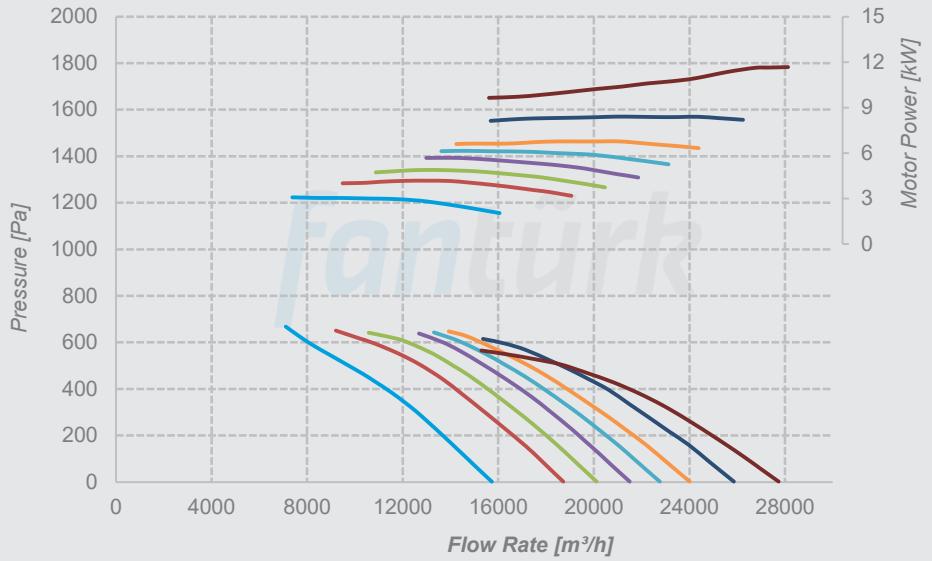


# Performance Curves

**P-FWA 560**  
**Y-FWA 560**  
**H-FWA 560**  
**Ç-FWA 560**

Nos. of Blades 5  
 Hub Size 5  
 Nos. of Poles 2  
 Material Aluminum  
 Pitch Angle

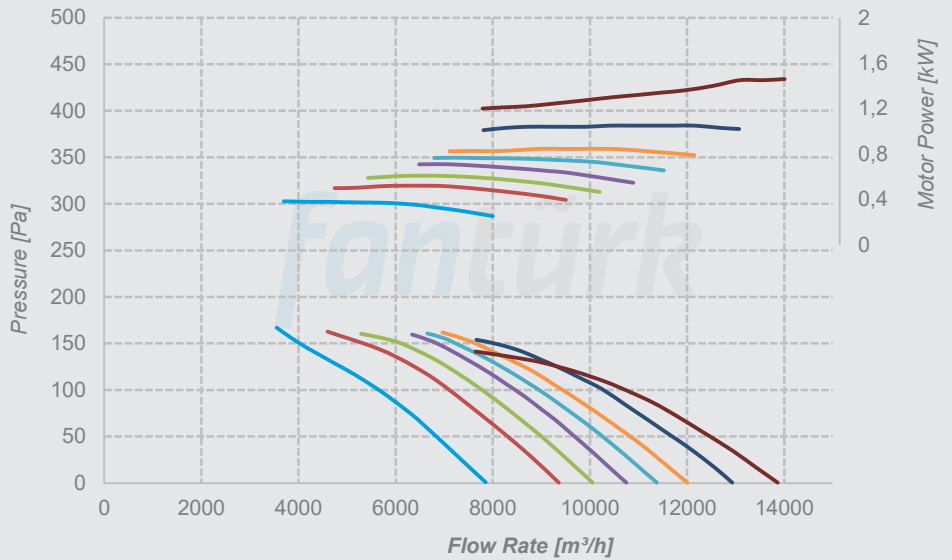
- 25°    — 30°    — 32,5°
- 35°    — 37,5°    — 40°
- 45°    — 50°



**P-FWA 560**  
**Y-FWA 560**  
**H-FWA 560**  
**Ç-FWA 560**

Nos. of Blades 5  
 Hub Size 5  
 Nos. of Poles 4  
 Material Aluminum  
 Pitch Angle

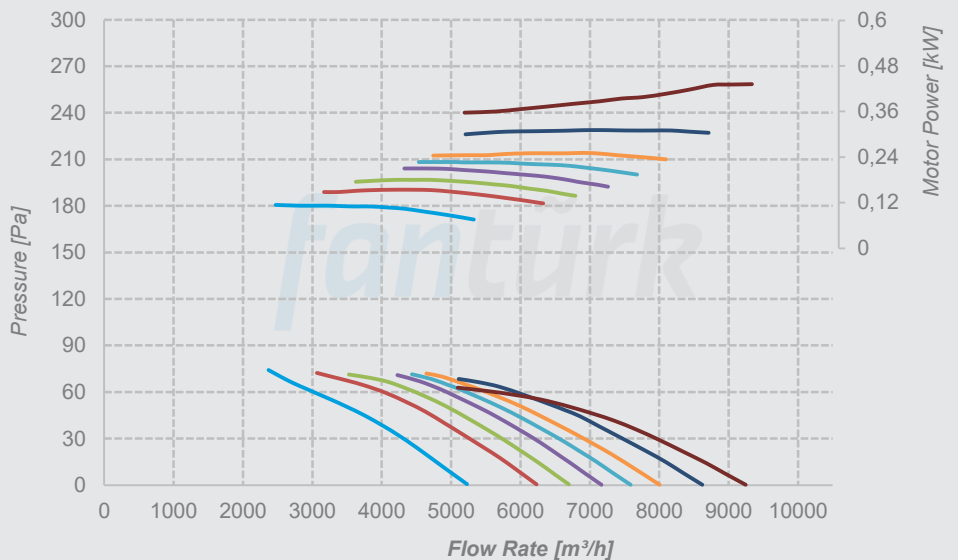
- 25°    — 30°    — 32,5°
- 35°    — 37,5°    — 40°
- 45°    — 50°



**P-FWA 560**  
**Y-FWA 560**  
**H-FWA 560**  
**Ç-FWA 560**

Nos. of Blades 5  
 Hub Size 5  
 Nos. of Poles 6  
 Material Aluminum  
 Pitch Angle

- 25°    — 30°    — 32,5°
- 35°    — 37,5°    — 40°
- 45°    — 50°

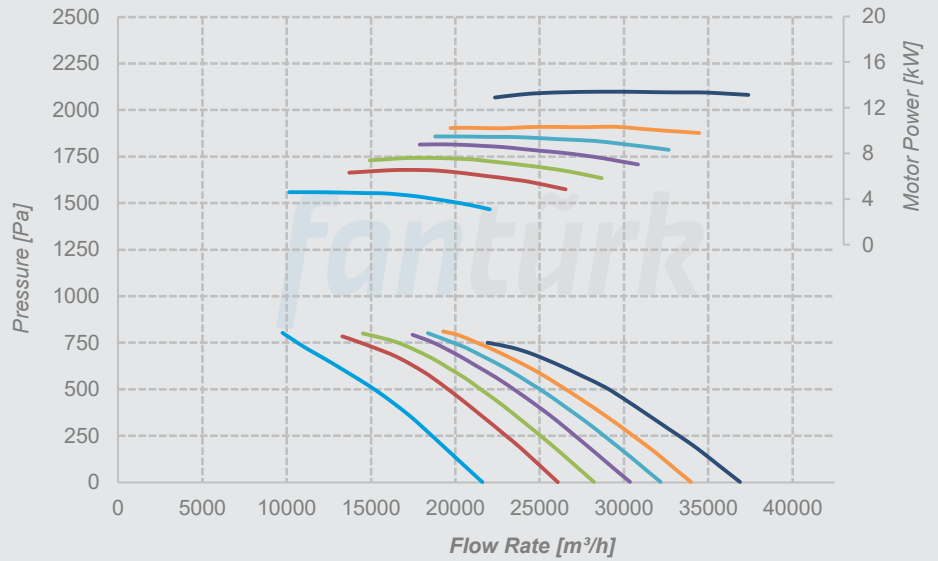


# Performance Curves

**P-FWA 630**  
**Y-FWA 630**  
**H-FWA 630**  
**Ç-FWA 630**

Nos. of Blades 5  
 Hub Size 5  
 Nos. of Poles 2  
 Material Aluminum  
 Pitch Angle

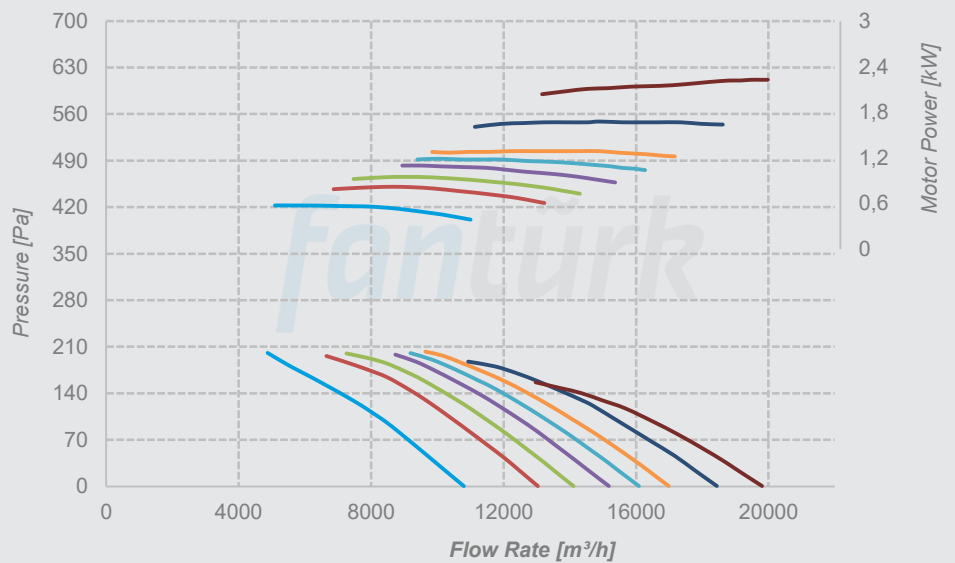
25° 30° 32,5°  
 35° 37,5° 40°  
 45°



**P-FWA 630**  
**Y-FWA 630**  
**H-FWA 630**  
**Ç-FWA 630**

Nos. of Blades 5  
 Hub Size 5  
 Nos. of Poles 4  
 Material Aluminum  
 Pitch Angle

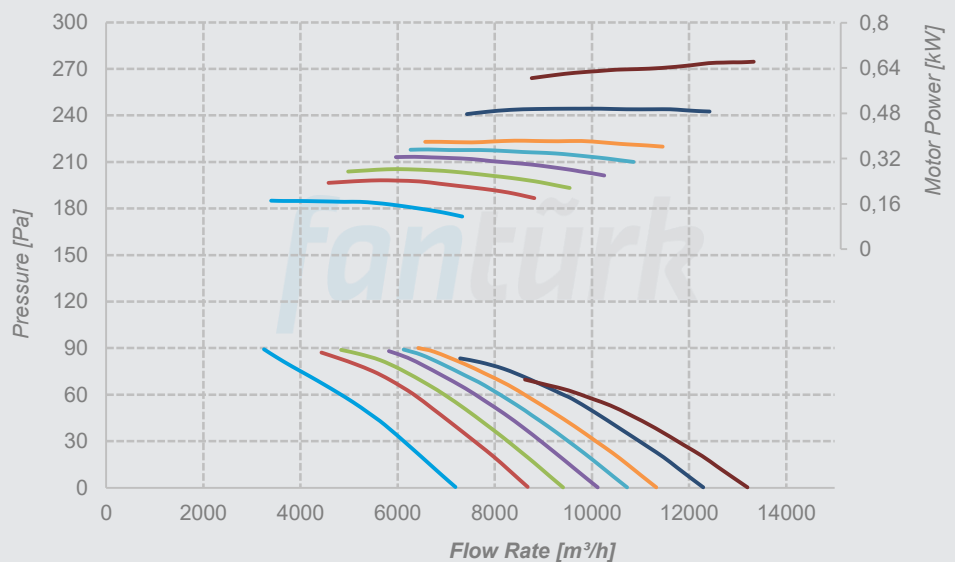
25° 30° 32,5°  
 35° 37,5° 40°  
 45° 50°



**P-FWA 630**  
**Y-FWA 630**  
**H-FWA 630**  
**Ç-FWA 630**

Nos. of Blades 5  
 Hub Size 5  
 Nos. of Poles 6  
 Material Aluminum  
 Pitch Angle

25° 30° 32,5°  
 35° 37,5° 40°  
 45° 50°

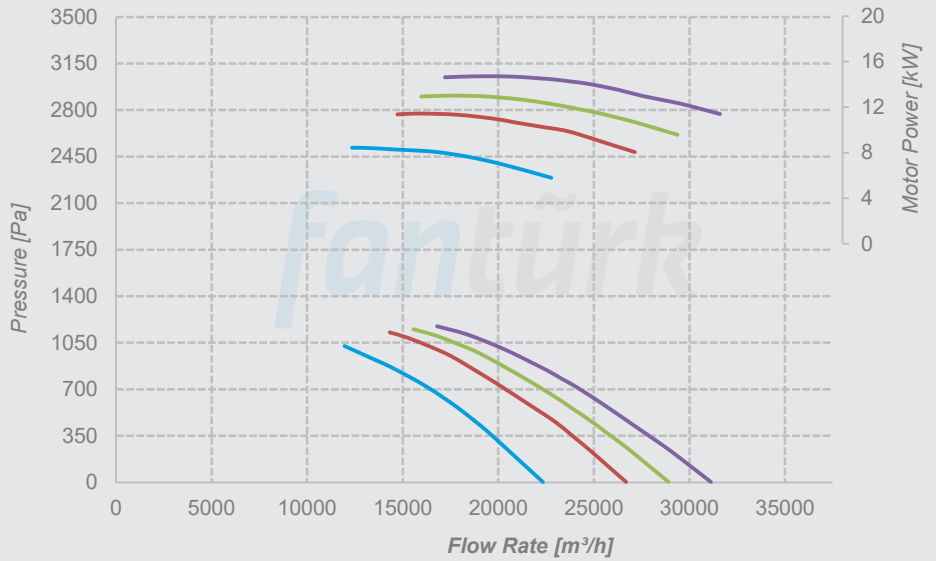


# Performance Curves

**P-FWA 630**  
**Y-FWA 630**  
**H-FWA 630**  
**Ç-FWA 630**

Nos. of Blades 8  
 Hub Size 8  
 Nos. of Poles 2  
 Material Aluminum  
 Pitch Angle

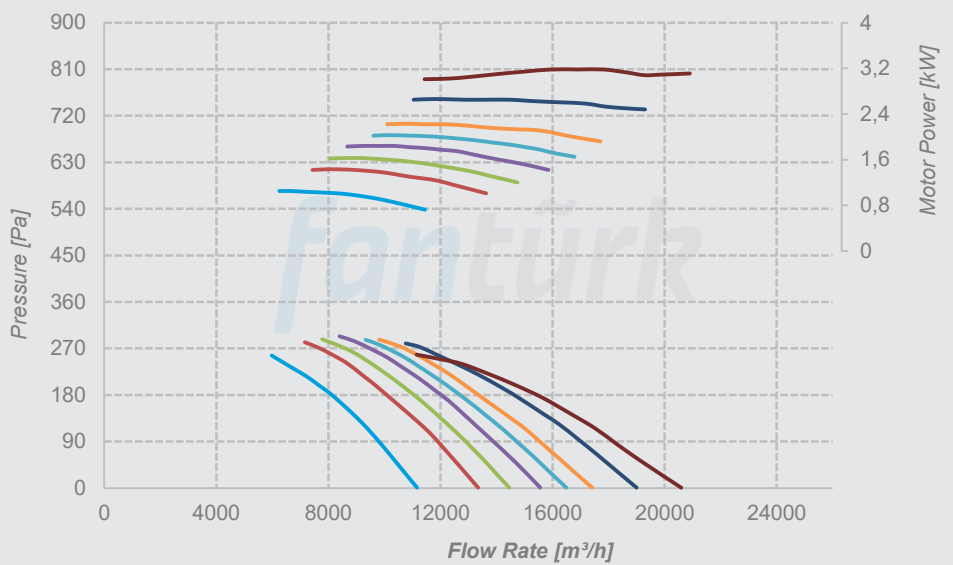
— 25° — 30°  
 — 32,5° — 35°



**P-FWA 630**  
**Y-FWA 630**  
**H-FWA 630**  
**Ç-FWA 630**

Nos. of Blades 8  
 Hub Size 8  
 Nos. of Poles 4  
 Material Aluminum  
 Pitch Angle

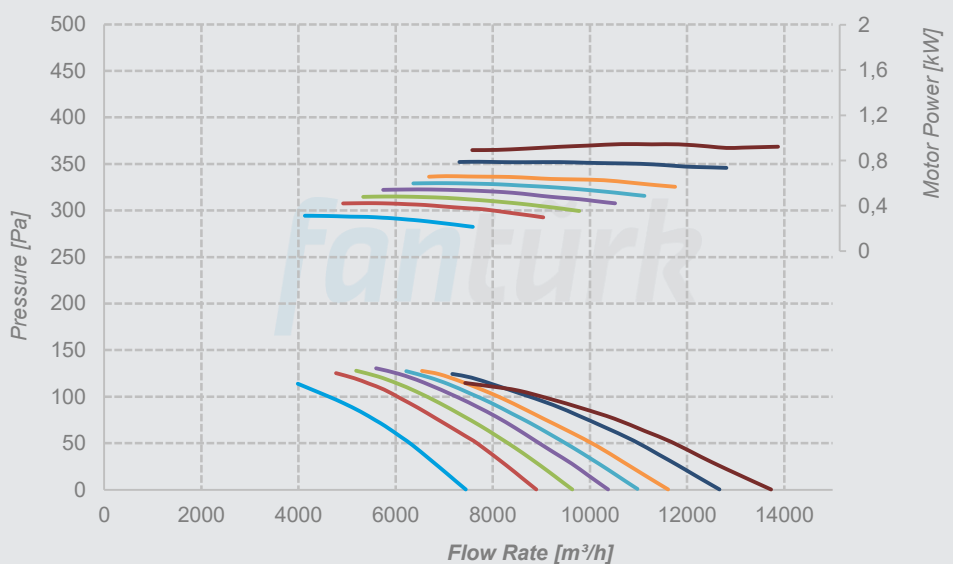
— 25° — 30° — 32,5°  
 — 35° — 37,5° — 40°  
 — 45° — 50°



**P-FWA 630**  
**Y-FWA 630**  
**H-FWA 630**  
**Ç-FWA 630**

Nos. of Blades 8  
 Hub Size 8  
 Nos. of Poles 6  
 Material Aluminum  
 Pitch Angle

— 25° — 30° — 32,5°  
 — 35° — 37,5° — 40°  
 — 45° — 50°

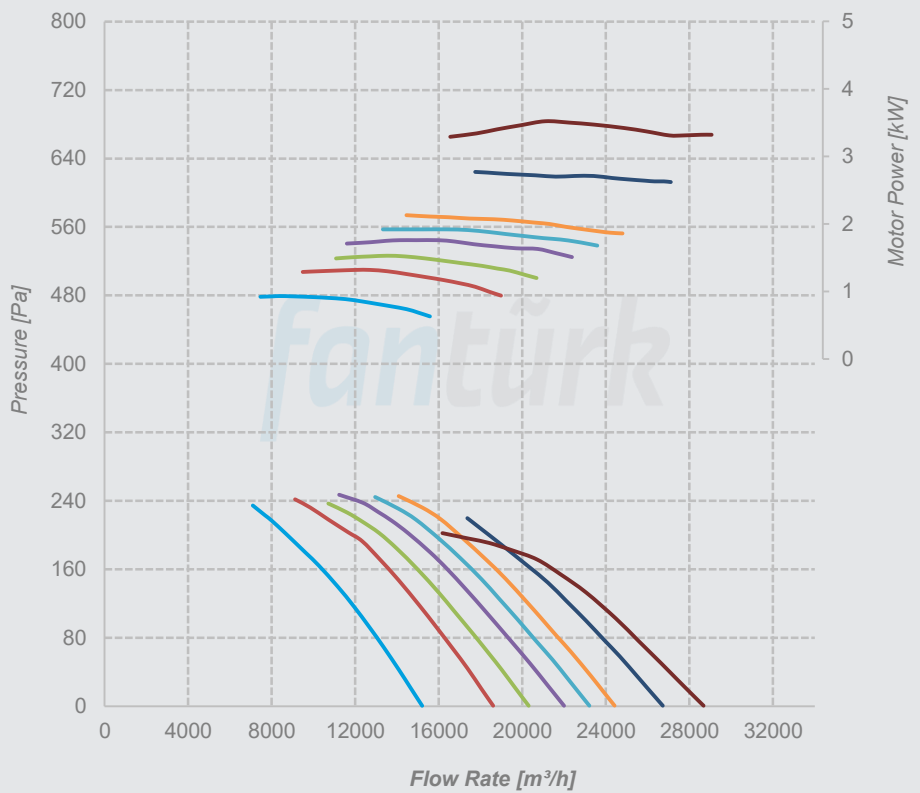


# Performance Curves

**P-FWA 710**  
**Y-FWA 710**  
**H-FWA 710**  
**Ç-FWA 710**

Nos. of Blades 5  
 Hub Size 5  
 Nos. of Poles 4  
 Material Aluminum  
 Pitch Angle

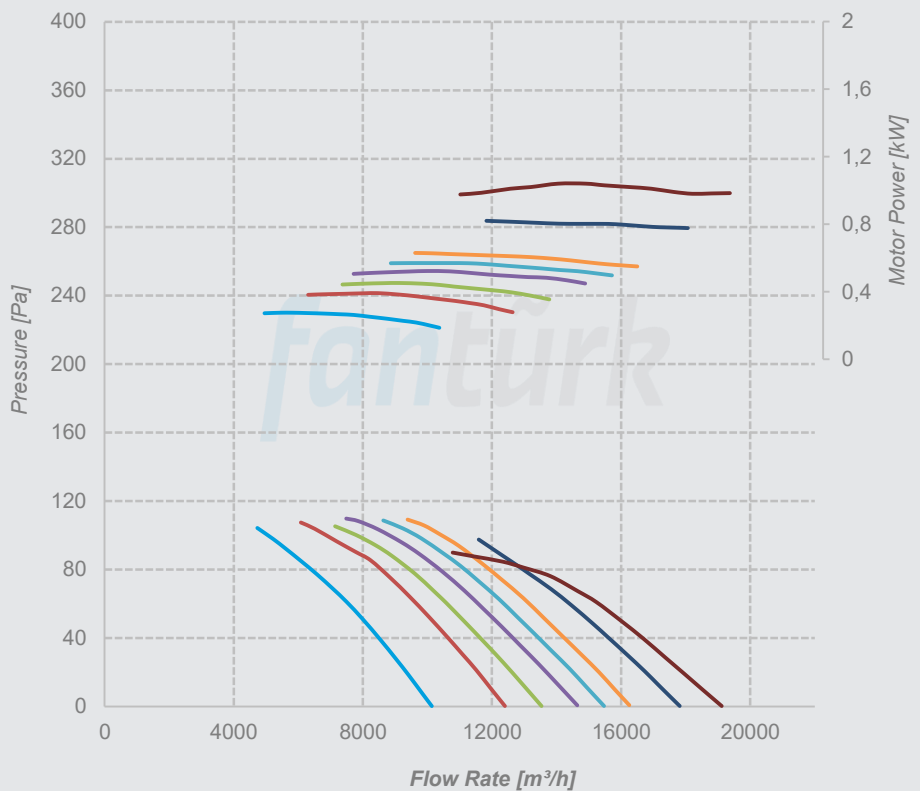
- 25°    — 30°    — 32,5°
- 35°    — 37,5°    — 40°
- 45°    — 50°



**P-FWA 710**  
**Y-FWA 710**  
**H-FWA 710**  
**Ç-FWA 710**

Nos. of Blades 5  
 Hub Size 5  
 Nos. of Poles 6  
 Material Aluminum  
 Pitch Angle

- 25°    — 30°    — 32,5°
- 35°    — 37,5°    — 40°
- 45°    — 50°



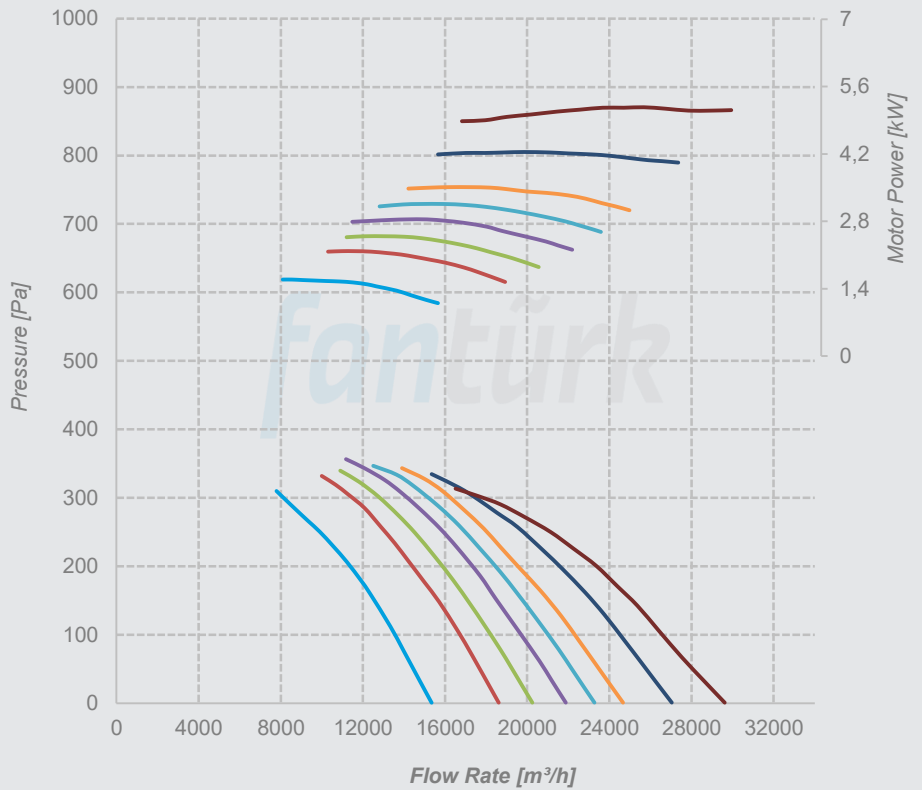


# Performance Curves

**P-FWA 710**  
**Y-FWA 710**  
**H-FWA 710**  
**Ç-FWA 710**

Nos. of Blades 8  
 Hub Size 8  
 Nos. of Poles 4  
 Material Aluminum  
 Pitch Angle

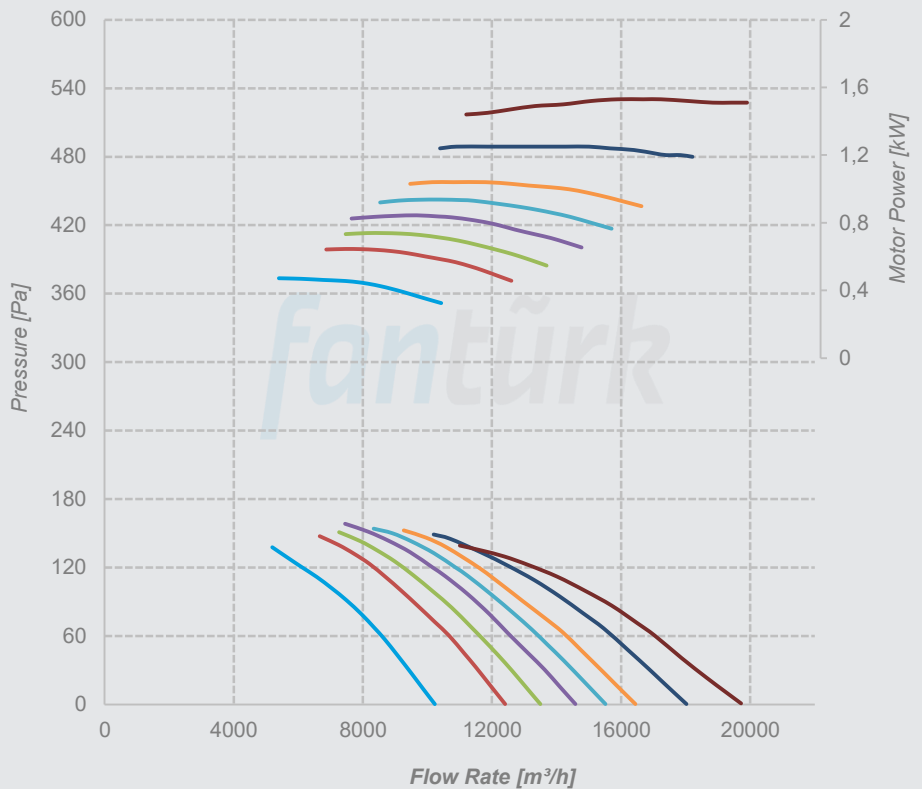
- 25°    — 30°    — 32,5°
- 35°    — 37,5°    — 40°
- 45°    — 50°



**P-FWA 710**  
**Y-FWA 710**  
**H-FWA 710**  
**Ç-FWA 710**

Nos. of Blades 8  
 Hub Size 8  
 Nos. of Poles 6  
 Material Aluminum  
 Pitch Angle

- 25°    — 30°    — 32,5°
- 35°    — 37,5°    — 40°
- 45°    — 50°

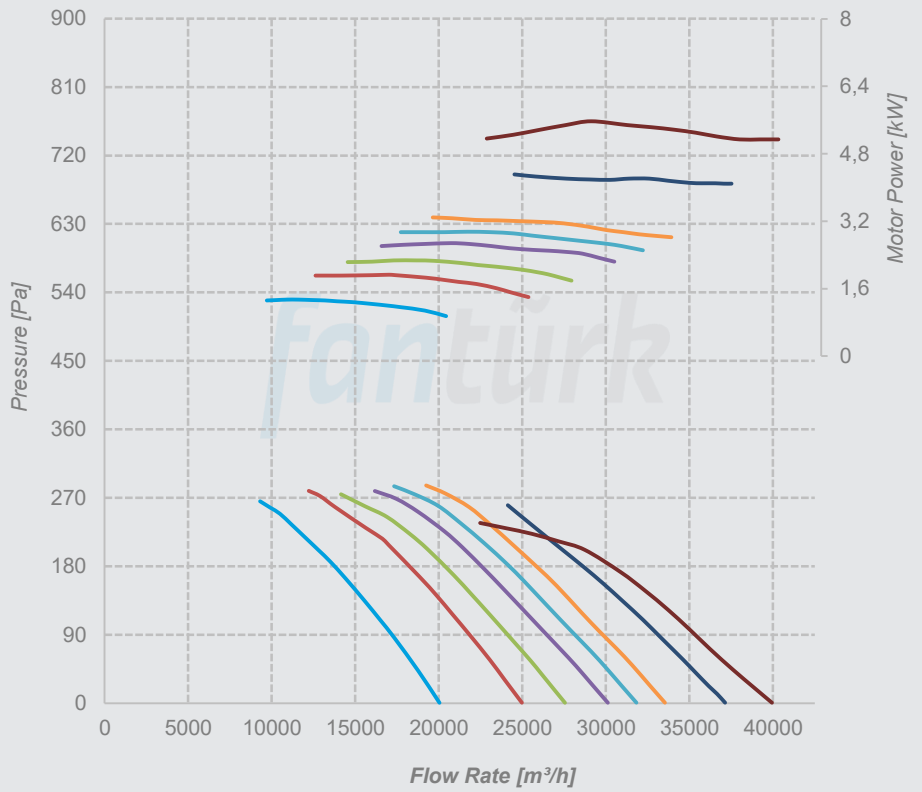


# Performance Curves

**P-FWA 800**  
**Y-FWA 800**  
**H-FWA 800**  
**Ç-FWA 800**

Nos. of Blades 5  
 Hub Size 5  
 Nos. of Poles 4  
 Material Aluminum  
 Pitch Angle

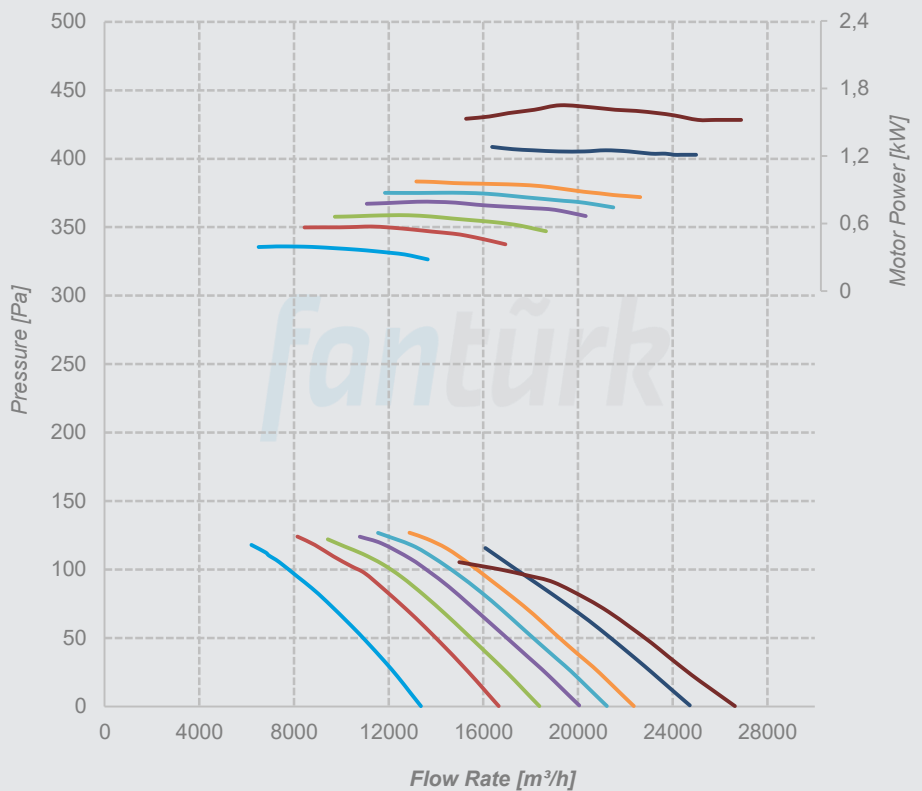
- 25°    — 30°    — 32,5°
- 35°    — 37,5°    — 40°
- 45°    — 50°



**P-FWA 800**  
**Y-FWA 800**  
**H-FWA 800**  
**Ç-FWA 800**

Nos. of Blades 5  
 Hub Size 5  
 Nos. of Poles 6  
 Material Aluminum  
 Pitch Angle

- 25°    — 30°    — 32,5°
- 35°    — 37,5°    — 40°
- 45°    — 50°

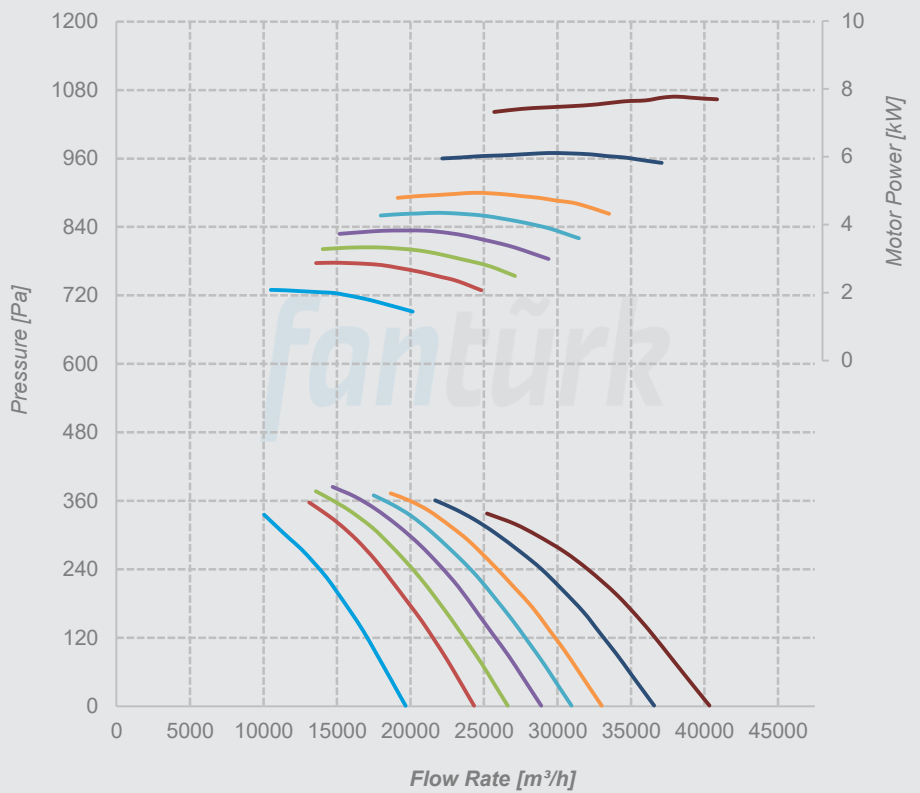


# Performance Curves

**P-FWA 800**  
**Y-FWA 800**  
**H-FWA 800**  
**Ç-FWA 800**

Nos. of Blades 8  
 Hub Size 8  
 Nos. of Poles 4  
 Material Aluminum  
 Pitch Angle

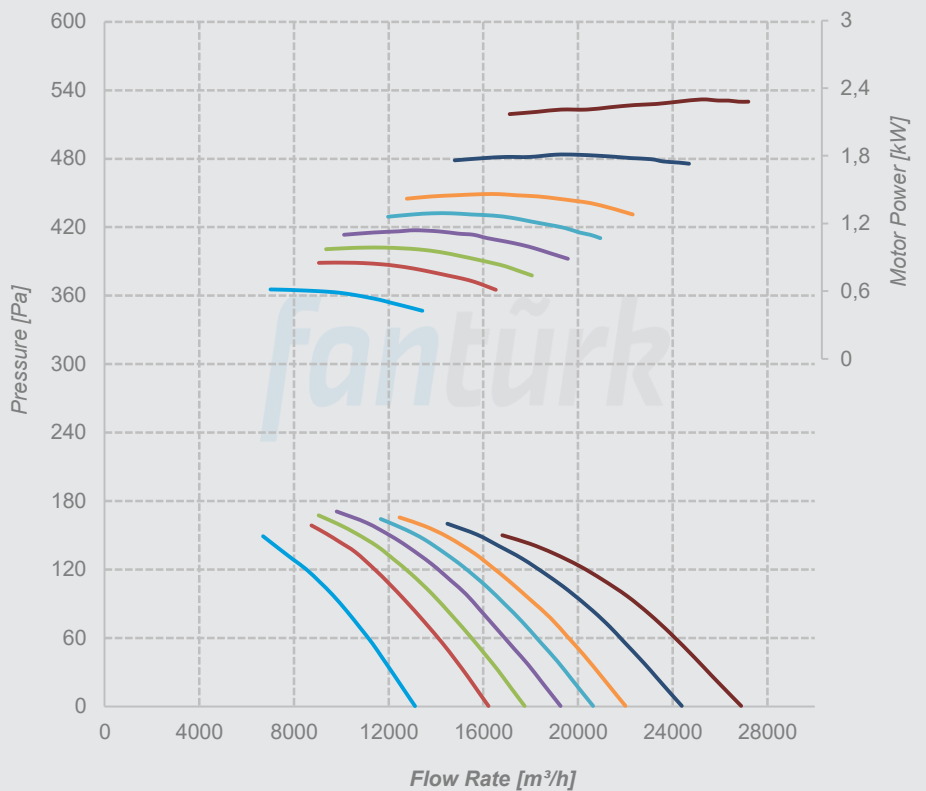
- 25°    — 30°    — 32,5°
- 35°    — 37,5°    — 40°
- 45°    — 50°



**P-FWA 800**  
**Y-FWA 800**  
**H-FWA 800**  
**Ç-FWA 800**

Nos. of Blades 8  
 Hub Size 8  
 Nos. of Poles 6  
 Material Aluminum  
 Pitch Angle

- 25°    — 30°    — 32,5°
- 35°    — 37,5°    — 40°
- 45°    — 50°

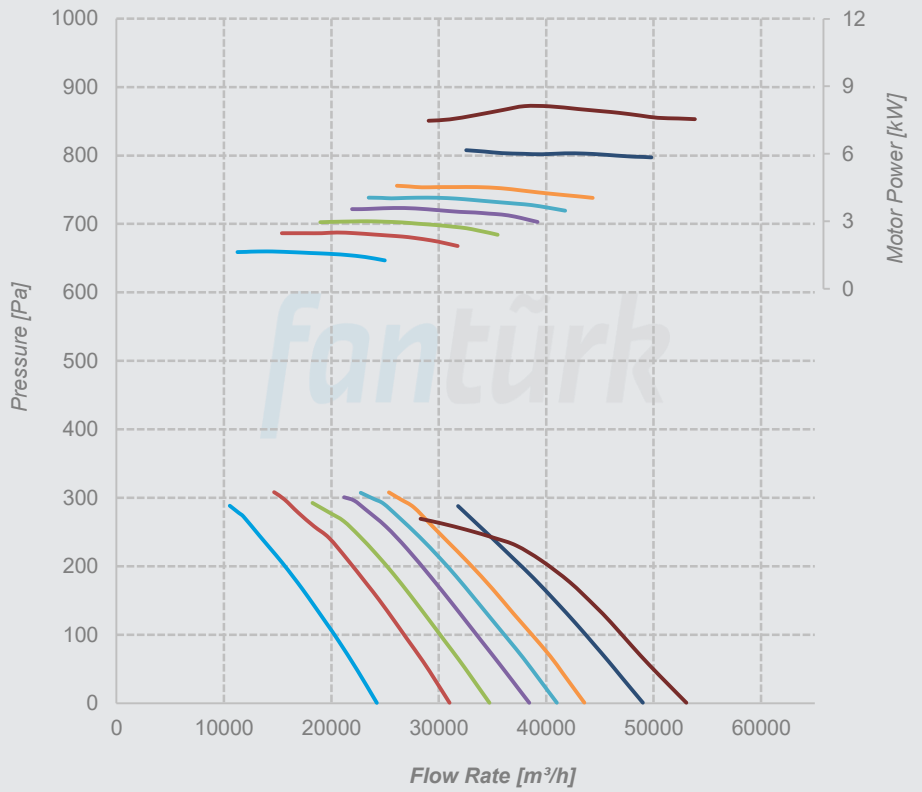


# Performance Curves

**P-FWA 900**  
**Y-FWA 900**  
**H-FWA 900**  
**Ç-FWA 900**

Nos. of Blades 5  
 Hub Size 5  
 Nos. of Poles 4  
 Material Aluminum  
 Pitch Angle

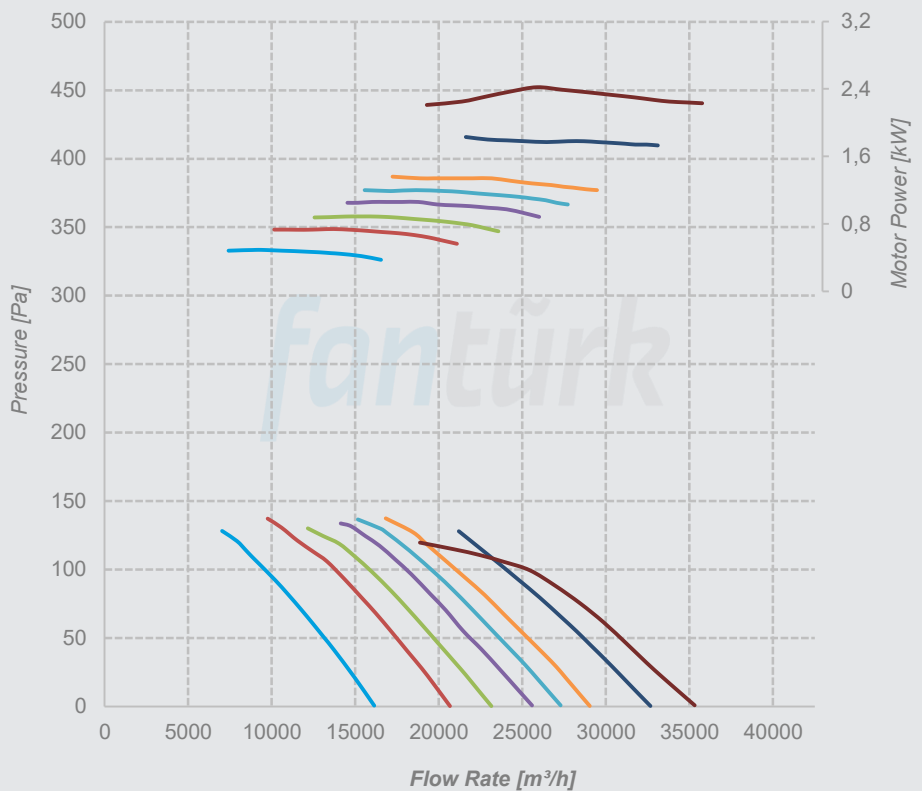
- 25°    — 30°    — 32,5°
- 35°    — 37,5°    — 40°
- 45°    — 50°



**P-FWA 900**  
**Y-FWA 900**  
**H-FWA 900**  
**Ç-FWA 900**

Nos. of Blades 5  
 Hub Size 5  
 Nos. of Poles 6  
 Material Aluminum  
 Pitch Angle

- 25°    — 30°    — 32,5°
- 35°    — 37,5°    — 40°
- 45°    — 50°

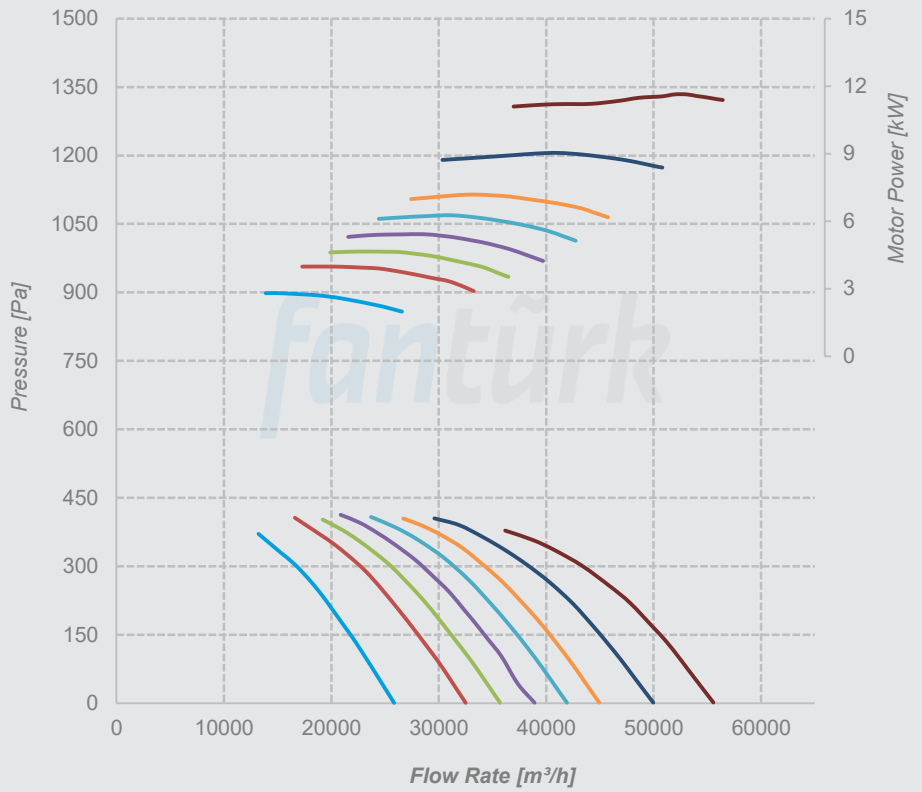


# Performance Curves

**P-FWA 900**  
**Y-FWA 900**  
**H-FWA 900**  
**Ç-FWA 900**

Nos. of Blades 8  
 Hub Size 8  
 Nos. of Poles 4  
 Material Aluminum  
 Pitch Angle

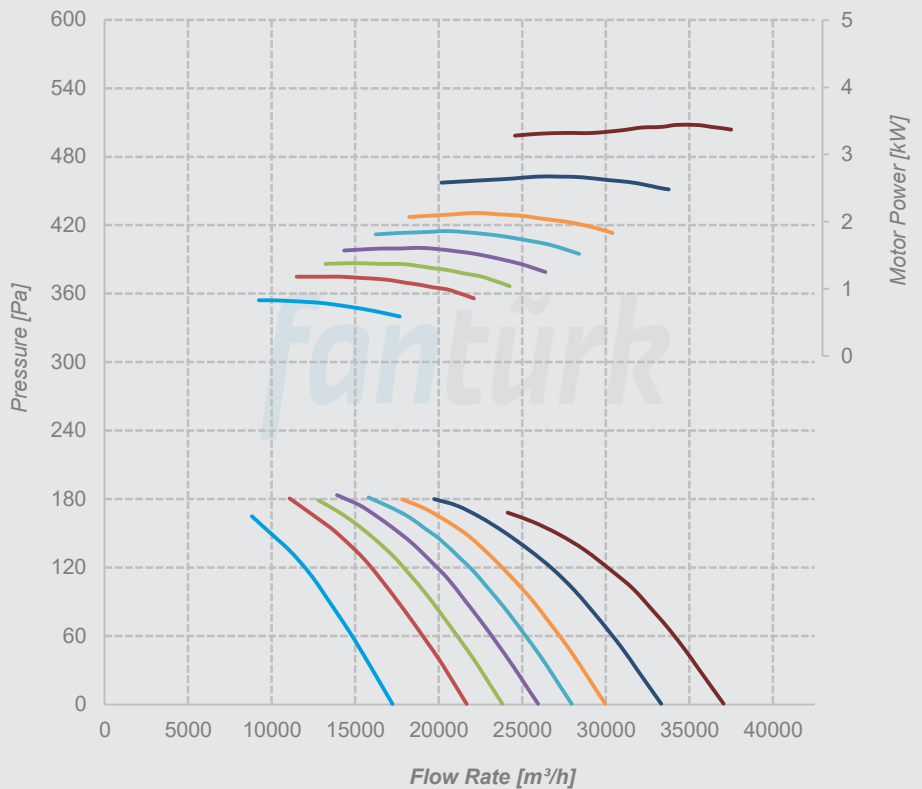
- 25°    — 30°    — 32,5°
- 35°    — 37,5°    — 40°
- 45°    — 50°



**P-FWA 900**  
**Y-FWA 900**  
**H-FWA 900**  
**Ç-FWA 900**

Nos. of Blades 8  
 Hub Size 8  
 Nos. of Poles 6  
 Material Aluminum  
 Pitch Angle

- 25°    — 30°    — 32,5°
- 35°    — 37,5°    — 40°
- 45°    — 50°

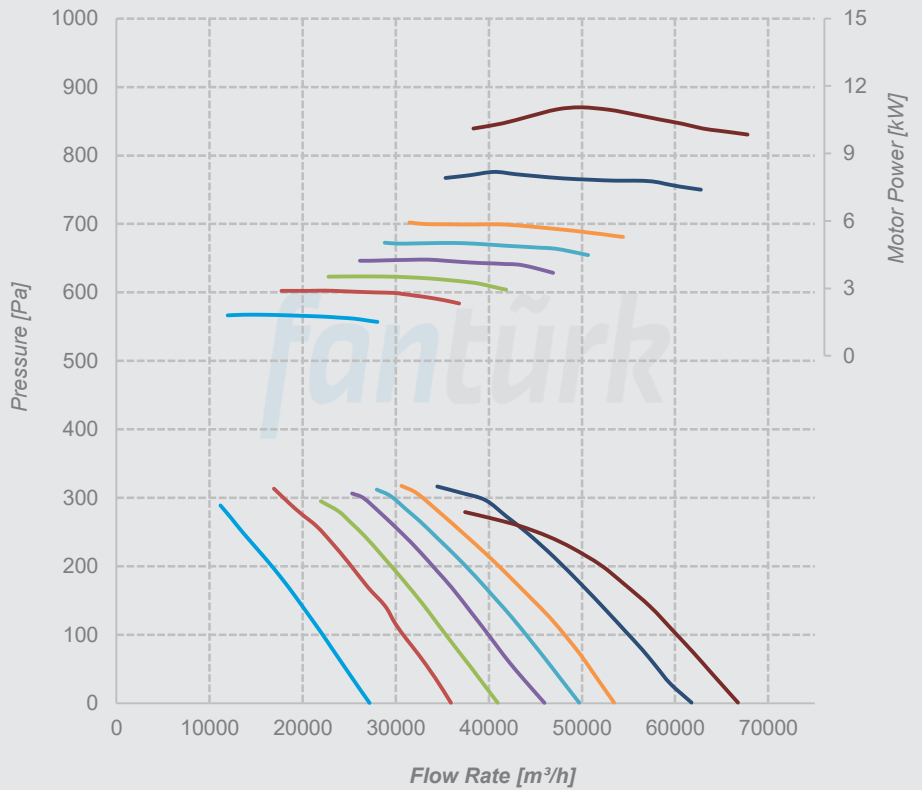


# Performance Curves

**P-FWA 1000**  
**Y-FWA 1000**  
**H-FWA 1000**  
**Ç-FWA 1000**

Nos. of Blades 5  
 Hub Size 5  
 Nos. of Poles 4  
 Material Aluminum  
 Pitch Angle

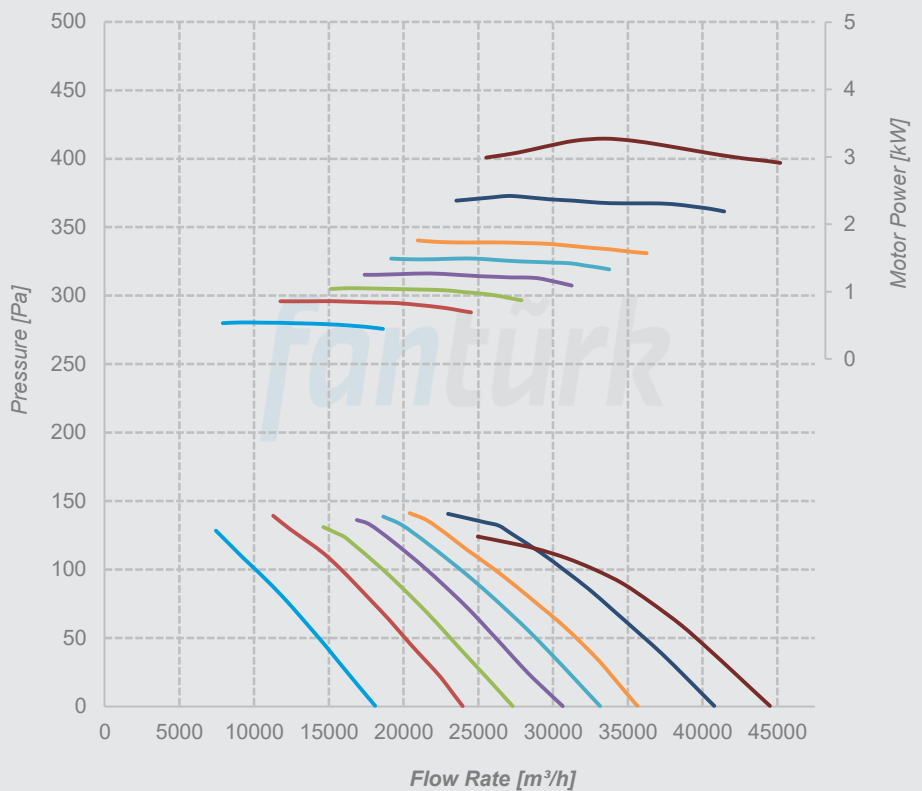
- 25°    — 30°    — 32,5°
- 35°    — 37,5°    — 40°
- 45°    — 50°



**P-FWA 1000**  
**Y-FWA 1000**  
**H-FWA 1000**  
**Ç-FWA 1000**

Nos. of Blades 5  
 Hub Size 5  
 Nos. of Poles 6  
 Material Aluminum  
 Pitch Angle

- 25°    — 30°    — 32,5°
- 35°    — 37,5°    — 40°
- 45°    — 50°

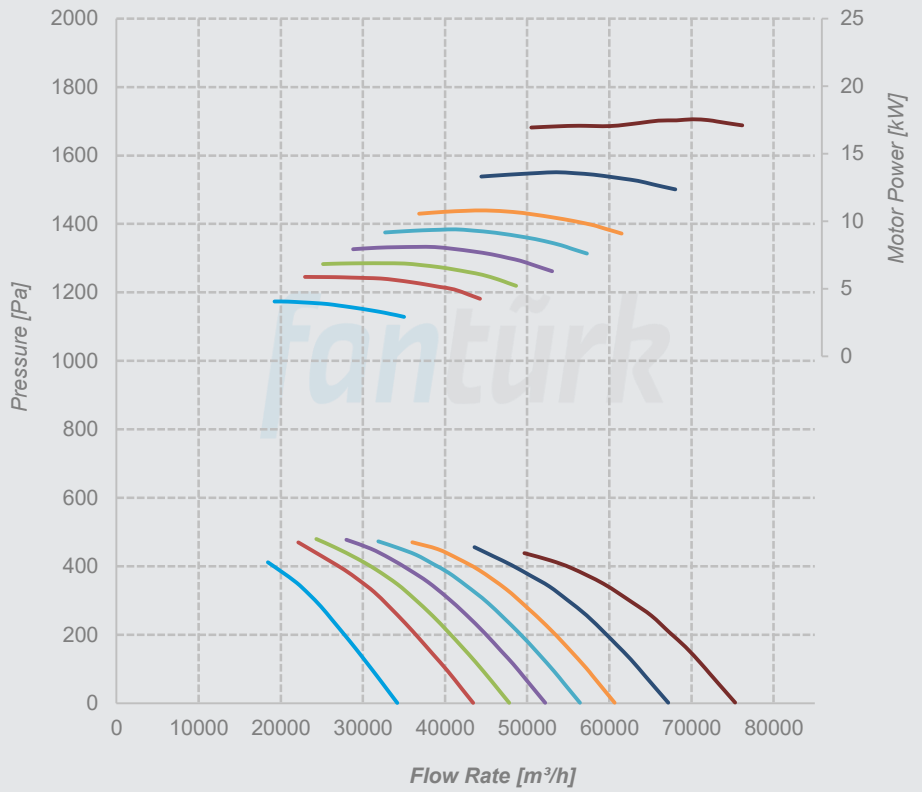


# Performance Curves

**P-FWA 1000**  
**Y-FWA 1000**  
**H-FWA 1000**  
**Ç-FWA 1000**

Nos. of Blades 8  
 Hub Size 8  
 Nos. of Poles 4  
 Material Aluminum  
 Pitch Angle

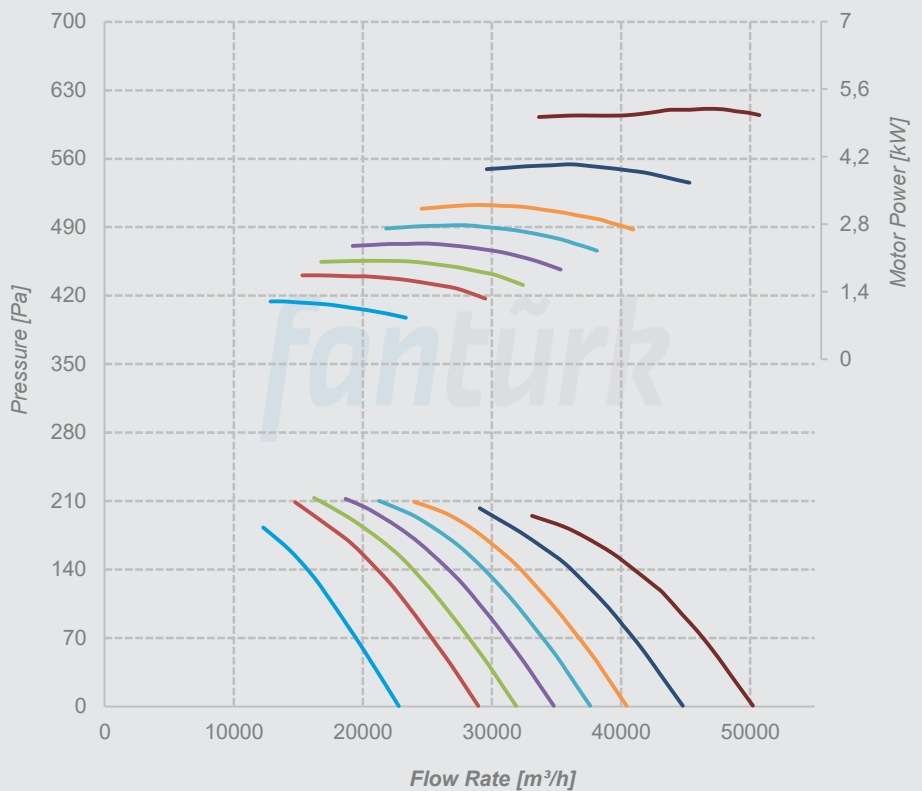
- 25°    — 30°    — 32,5°
- 35°    — 37,5°    — 40°
- 45°    — 50°



**P-FWA 1000**  
**Y-FWA 1000**  
**H-FWA 1000**  
**Ç-FWA 1000**

Nos. of Blades 8  
 Hub Size 8  
 Nos. of Poles 6  
 Material Aluminum  
 Pitch Angle

- 25°    — 30°    — 32,5°
- 35°    — 37,5°    — 40°
- 45°    — 50°

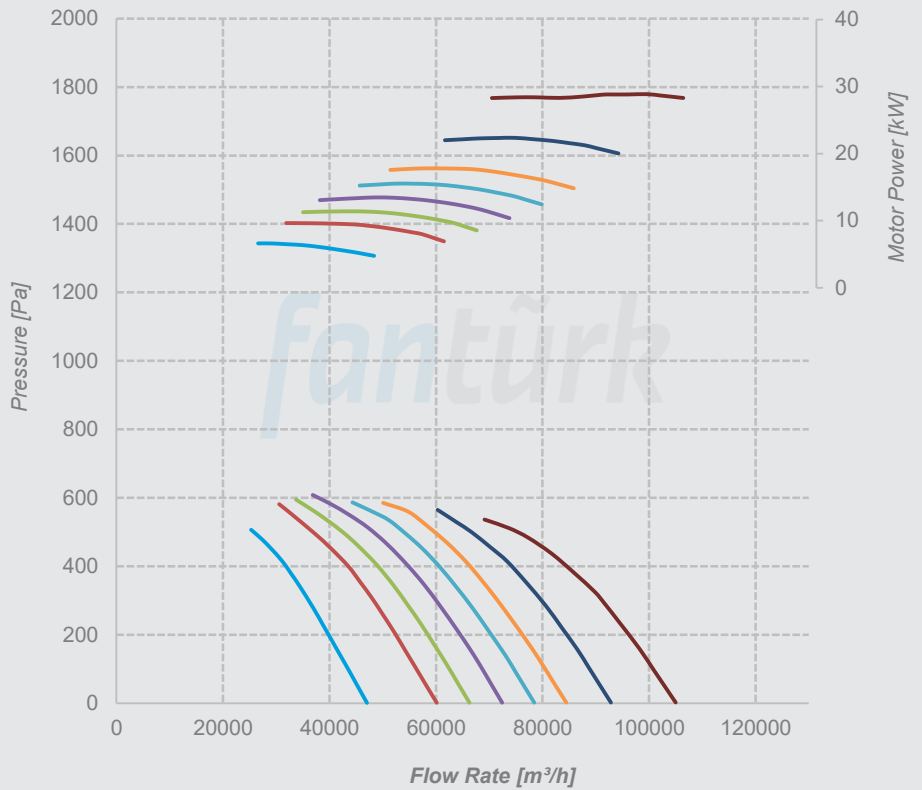


# Performance Curves

**P-FWA 1120**  
**Y-FWA 1120**  
**H-FWA 1120**  
**Ç-FWA 1120**

Nos. of Blades 8  
 Hub Size 8  
 Nos. of Poles 4  
 Material Aluminum  
 Pitch Angle

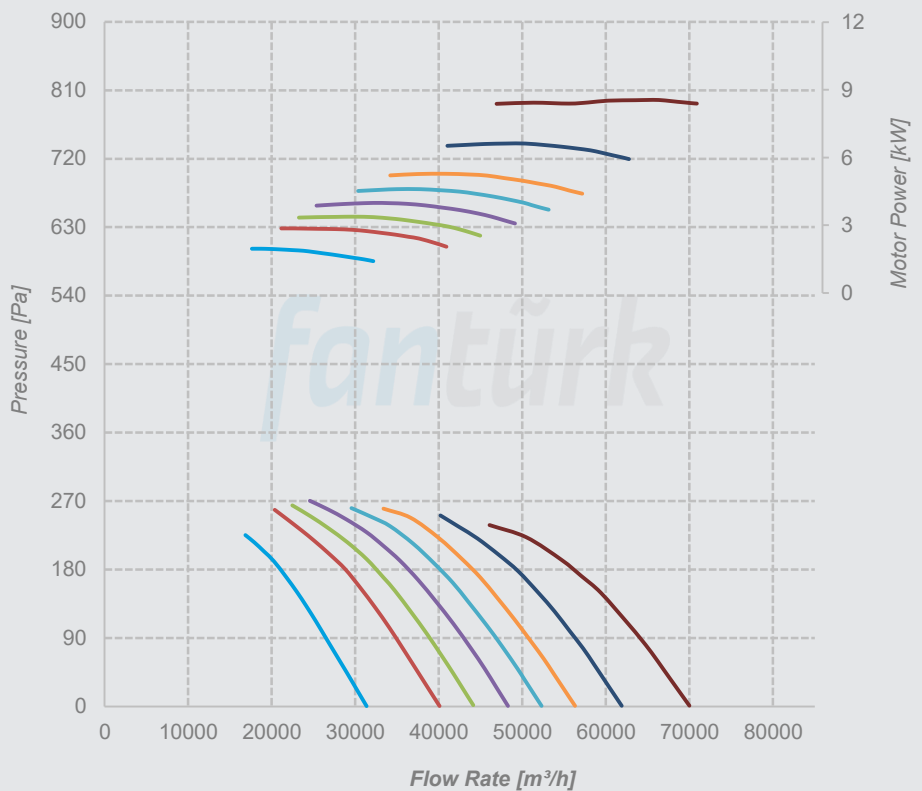
- 25°    — 30°    — 32,5°
- 35°    — 37,5°    — 40°
- 45°    — 50°



**P-FWA 1120**  
**Y-FWA 1120**  
**H-FWA 1120**  
**Ç-FWA 1120**

Nos. of Blades 8  
 Hub Size 8  
 Nos. of Poles 6  
 Material Aluminum  
 Pitch Angle

- 25°    — 30°    — 32,5°
- 35°    — 37,5°    — 40°
- 45°    — 50°



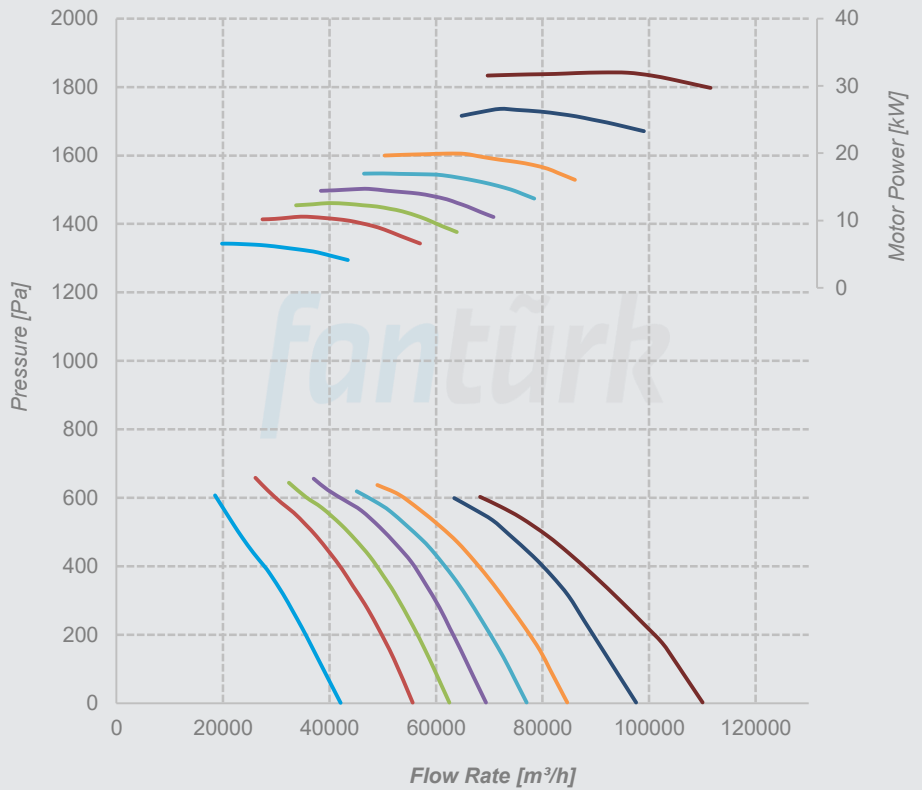


# Performance Curves

**P-FWA 1120**  
**Y-FWA 1120**  
**H-FWA 1120**  
**Ç-FWA 1120**

Nos. of Blades 12  
 Hub Size 12  
 Nos. of Poles 4  
 Material Aluminum  
 Pitch Angle

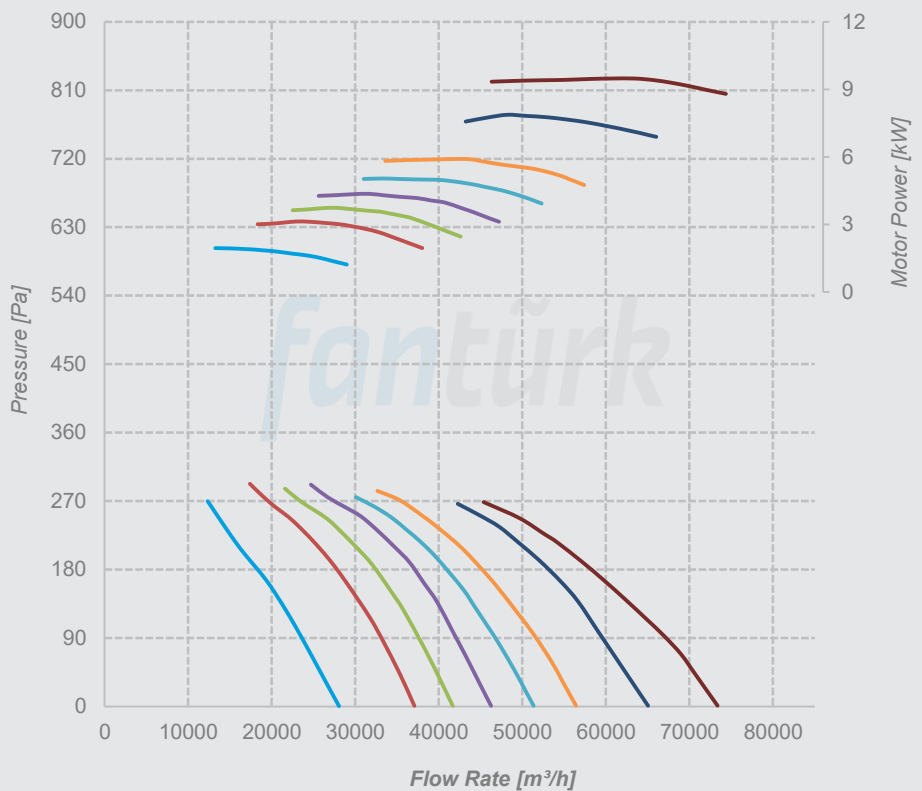
- 25°    — 30°    — 32,5°
- 35°    — 37,5°    — 40°
- 45°    — 50°



**P-FWA 1120**  
**Y-FWA 1120**  
**H-FWA 1120**  
**Ç-FWA 1120**

Nos. of Blades 12  
 Hub Size 12  
 Nos. of Poles 6  
 Material Aluminum  
 Pitch Angle

- 25°    — 30°    — 32,5°
- 35°    — 37,5°    — 40°
- 45°    — 50°

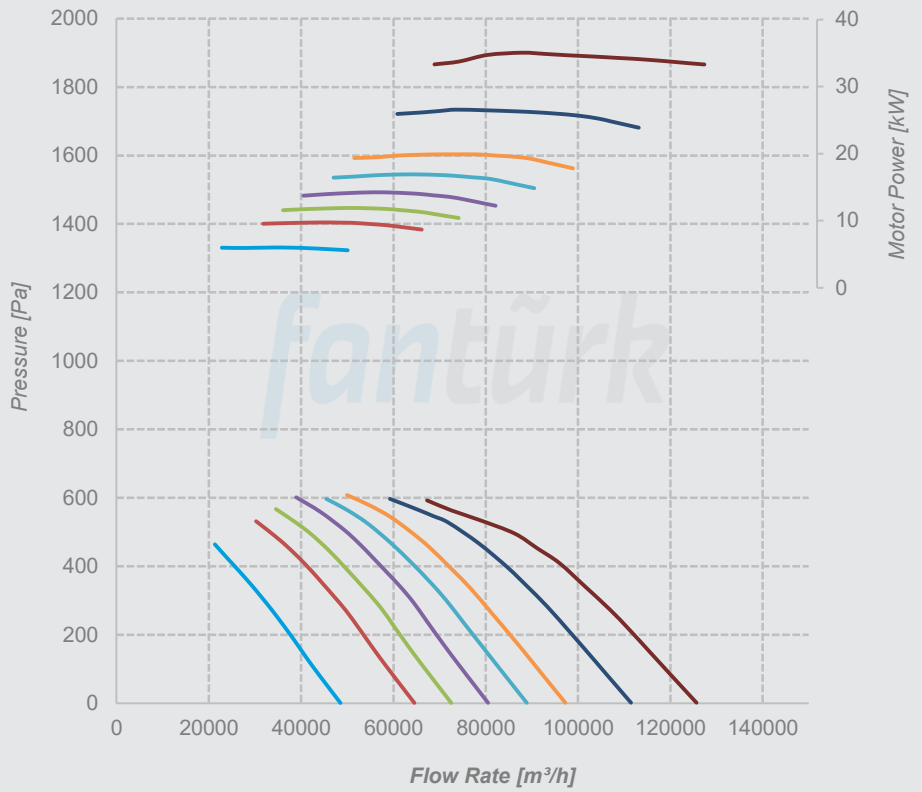


# Performance Curves

**P-FWA 1250**  
**Y-FWA 1250**  
**H-FWA 1250**  
**Ç-FWA 1250**

Nos. of Blades 8  
 Hub Size 16  
 Nos. of Poles 4  
 Material Aluminum  
 Pitch Angle

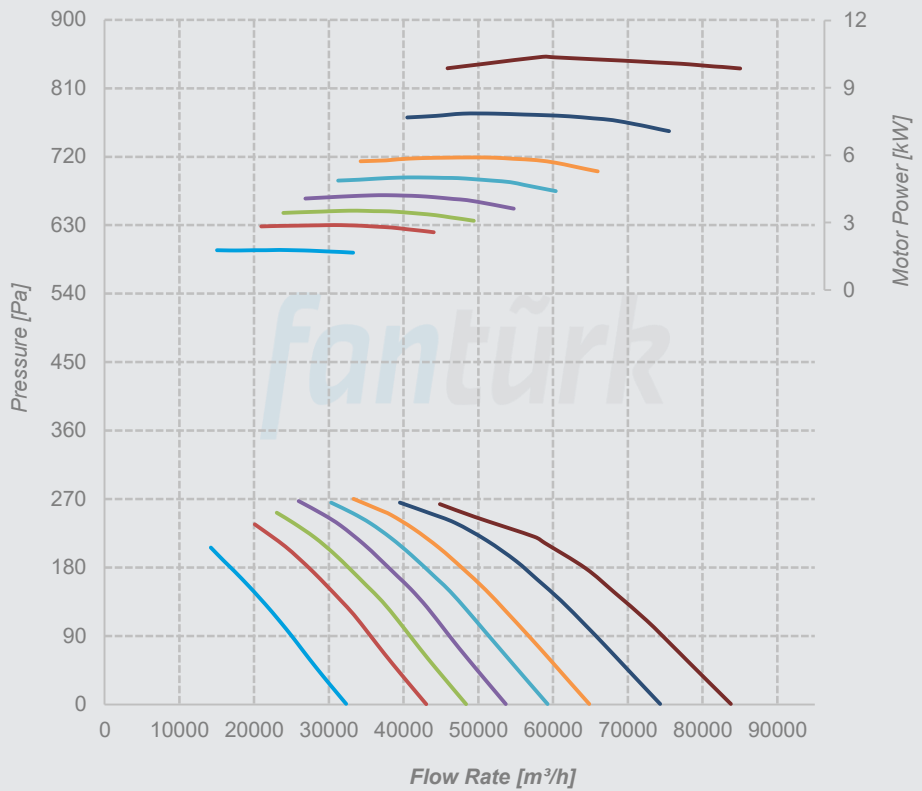
- 25°    — 30°    — 32,5°
- 35°    — 37,5°    — 40°
- 45°    — 50°



**P-FWA 1250**  
**Y-FWA 1250**  
**H-FWA 1250**  
**Ç-FWA 1250**

Nos. of Blades 8  
 Hub Size 16  
 Nos. of Poles 6  
 Material Aluminum  
 Pitch Angle

- 25°    — 30°    — 32,5°
- 35°    — 37,5°    — 40°
- 45°    — 50°

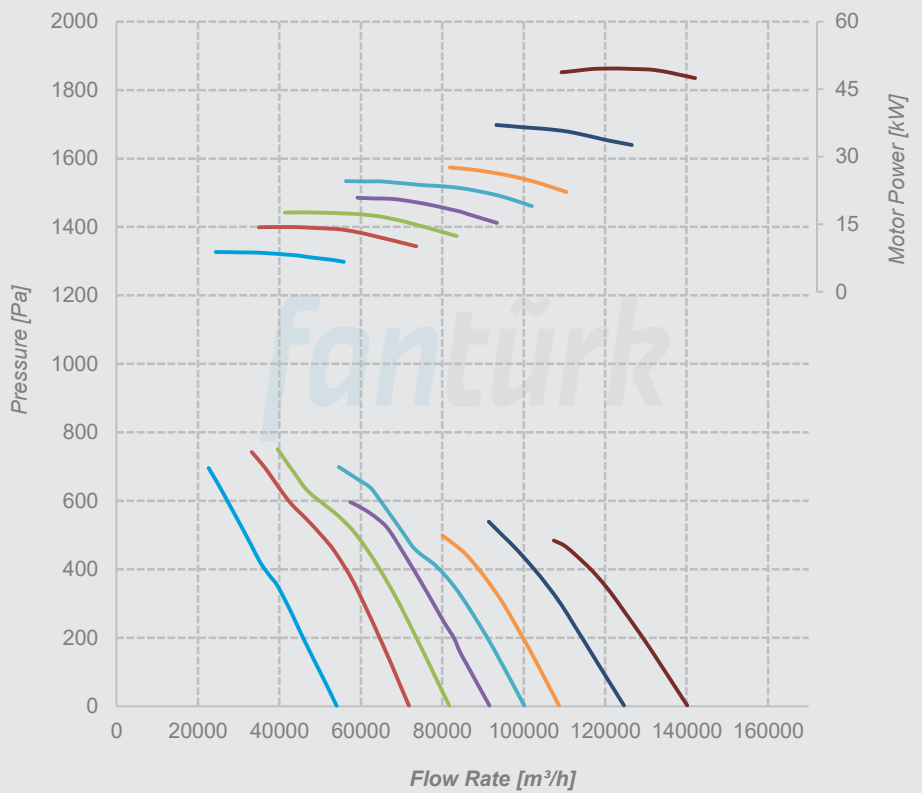


# Performance Curves

**P-FWA 1250**  
**Y-FWA 1250**  
**H-FWA 1250**  
**Ç-FWA 1250**

Nos. of Blades 12  
 Hub Size 16  
 Nos. of Poles 4  
 Material Aluminum  
 Pitch Angle

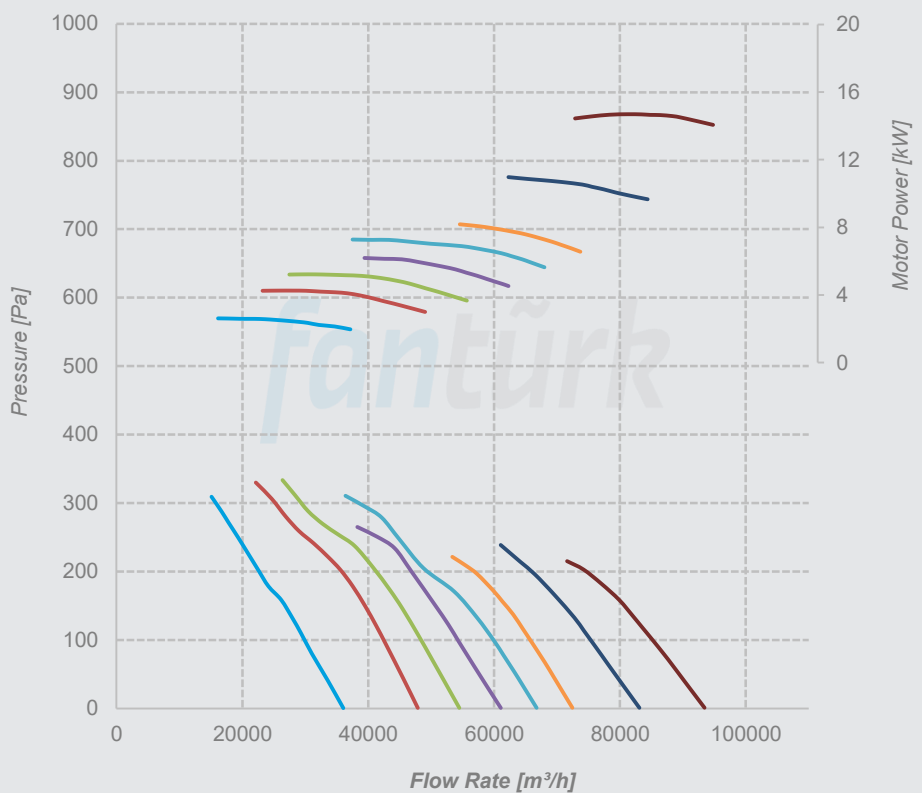
- 25°    — 30°    — 32,5°
- 35°    — 37,5°    — 40°
- 45°    — 50°



**P-FWA 1250**  
**Y-FWA 1250**  
**H-FWA 1250**  
**Ç-FWA 1250**

Nos. of Blades 12  
 Hub Size 16  
 Nos. of Poles 6  
 Material Aluminum  
 Pitch Angle

- 25°    — 30°    — 32,5°
- 35°    — 37,5°    — 40°
- 45°    — 50°

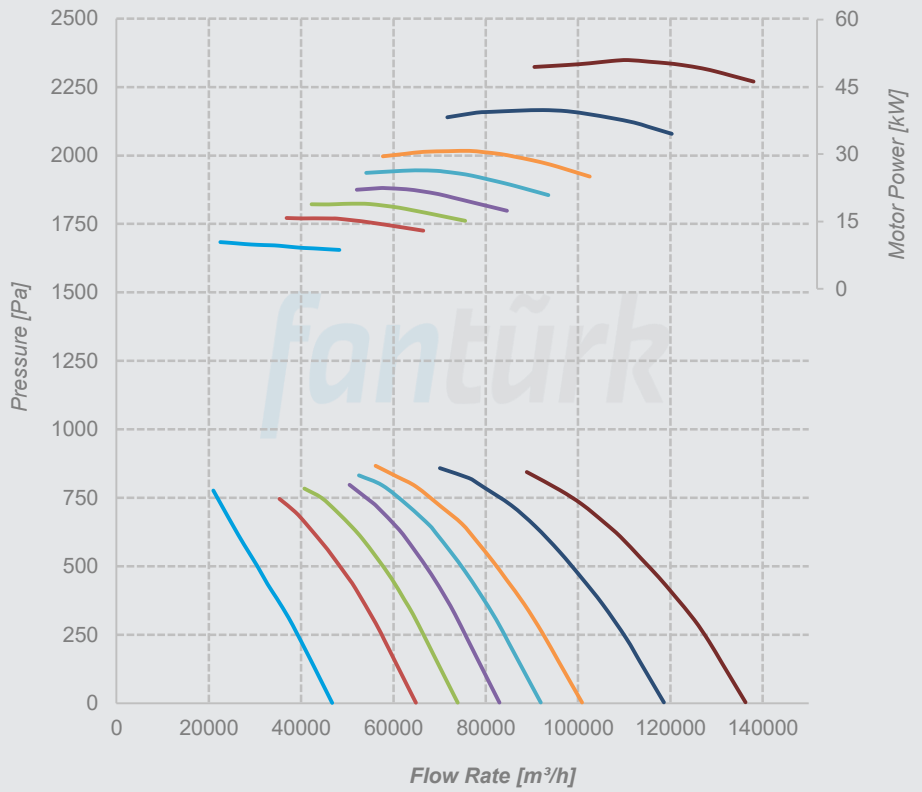


# Performance Curves

**P-FWA 1250**  
**Y-FWA 1250**  
**H-FWA 1250**  
**Ç-FWA 1250**

Nos. of Blades 16  
 Hub Size 16  
 Nos. of Poles 4  
 Material Aluminum  
 Pitch Angle

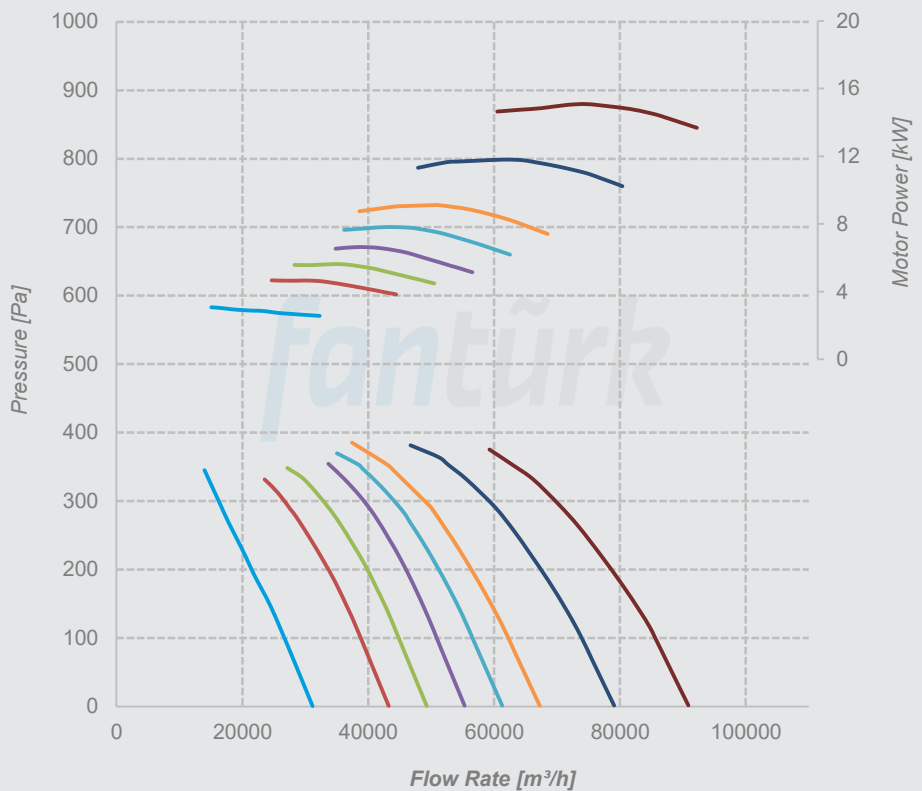
- 25°    — 30°    — 32,5°
- 35°    — 37,5°    — 40°
- 45°    — 50°



**P-FWA 1250**  
**Y-FWA 1250**  
**H-FWA 1250**  
**Ç-FWA 1250**

Nos. of Blades 16  
 Hub Size 16  
 Nos. of Poles 6  
 Material Aluminum  
 Pitch Angle

- 25°    — 30°    — 32,5°
- 35°    — 37,5°    — 40°
- 45°    — 50°



*Minarelicavus OSB District 202. Street No: 19 Nilüfer/Bursa Turkey  
T: 90(224)482 50 95 E: info@fanturk.com.tr*

*fanturk.com.tr*