

# BOX HB/HBA

*Axial fan in soundproof cabinet*  
*Helicoidal en caja insonorizada*



### MANUFACTURING FEATURES

• **BOX:** Soundproof galvanized steel box with thermo-acoustic insulation, Bs1d0. Easy motor access and fan maintenance through removable panels.

Inside fan:

• **HB:** Axial fan, circular reinforced frame from size 45 to 80. For larger sizes uses from 90 to 125 we use model HC. Motor-impeller assembly through a modular system. Variable pitch angle polyamide impeller reinforced with fibreglass. Polyester powder finishing coat.

• **HBA:** Axial fan with the same construction features than HB but with aluminium impeller from size 45 to 80. For larger sizes uses from 90 to 125 is HCA. Motor-impeller assembly through a modular system.

• Squirrel cage asynchronous standard motor, IP-55 protection and rated class F insulation. Standard voltages 230V 50Hz for single phase motors, 230/400V 50Hz for three phase motors up to 4kW, and 400/690V 50Hz for higher powers 1 speed and 400V for 2 speeds motors.

### APPLICATIONS

Designed for wall or duct installation, they are suitable for:

- Air renewal in buildings and industries.
- Smoke extraction (max 45-50°C).
- Maximum working temperature: 1ph 50°C, 3ph 60°C.

### UNDER REQUEST

- Reversible impeller.
- B form impeller (airflow from impeller to motor).
- 60Hz fans and special voltages.

### CARACTERÍSTICAS CONSTRUCTIVAS

• **BOX:** Caja construida en chapa de acero galvanizado aislada con aislamiento térmico y acústico con clasificación al fuego Bs1d0.

. Paneles laterales desmontables para facilitar el acceso al motor y el mantenimiento.

Ventilador Interior:

• **HB:** ventilador helicoidal de marco redondo reforzado con nervio intermedio para tamaños del 45 al 80. Para tamaños del 90 a 125 es un HC.

Montaje modular del conjunto motor hélice que permite una total versatilidad en caso de cualquier cambio. Hélice de poliamida reforzada con fibra de vidrio de ángulo variable en origen. Protegidos contra la corrosión mediante recubrimiento en polvo de resina de poliéster.

• **HBA:** ventilador helicoidal con mismas características constructivas que HB pero con hélice de aluminio para tamaños del 45 al 80. Para tamaños del 90 a 125 es un HCA. Montaje modular del conjunto motor hélice .

• Motor asíncrono normalizado de jaula de ardilla con protección IP-55 y aislamiento clase F. Voltajes estándar 230V 50Hz para motores monofásicos, 230/400V 50Hz para motores trifásicos hasta 4kW y 400/690V 50Hz para potencias superiores de 1 velocidad 400V para 2 velocidades.

### APLICACIONES

Diseñados para montaje en pared o en conducto, son indicados para:

- Renovación de aire en todo tipo de edificios e industrias.
- Extracción de humos (máximo 45-50 °C).
- Temperatura máxima de trabajo en continuo: monofásicos 50°C, trifásicos 60°C.

### BAJO DEMANDA

- Hélice reversible.
- Hélice impelente (sentido del aire hélice-motor).
- Ventiladores para trabajar a 60Hz y voltajes especiales.

## ACCESSORIES / accesorios



### INT

Interruptor de corte  
Safety switch



### SFC

Variador de velocidad frecuencial  
Frequency speed controller



### JE 45

junta elástica  
Flexible joint

## SINGLE PHASE RANGE / serie monofásica

### 2 POLE / 2 polos

Model	Angle	Min. Rat. Power kW	Max. Rat. Power kW	Max. Air flow m <sup>3</sup> /h	Sound dB (A)	Connection diagram
BOX HB 40 M2 (A0:6)	25° - 40°	0,55	1,1	4.660	59	1

### 4 POLE / 4 polos

Model	Angle	Min. Rat. Power kW	Max. Rat. Power kW	Max. Air flow m <sup>3</sup> /h	Sound dB (A)	Connection diagram
BOX HB 40 M4 (A0:6)	35° - 40°	0,12	0,25	4.670	48	1

## Cajas de ventilación inline



Model	Angle	Min. Rat. Power kW	Max. Rat. Power kW	Max. Air flow m <sup>3</sup> /h	Sound dB (A)	Connection diagram
BOX HB 45 M4 (A0:6)	35° - 40°	0,12	0,55	6.360	49	1
BOX HB 45 M4 (A5:6)	25° - 45°	0,12	0,55	6.350	48	1
BOX HB 50 M4 (A0:6)	35° - 40°	0,12	0,55	8.140	50	1
BOX HB 50 M4 (A5:6)	25° - 45°	0,12	0,55	8.130	51	1
BOX HB 56 M4 (A2:6)	20° - 45°	0,37	1,1	13.910	57	1
BOX HB 56 M4 (A2:9)	20° - 45°	0,37	1,1	14.710	57	1
BOX HB 56 M4 (A5:6)	20° - 45°	0,37	1,1	14.640	67	1

### 6 POLE / 6 polos

Model	Angle	Min. Rat. Power kW	Max. Rat. Power kW	Max. Air flow m <sup>3</sup> /h	Sound dB (A)	Connection diagram
BOX HB 40 M6 (A0:6)	35° - 40°	0,12	0,12	3.030	39	1
BOX HB 45 M6 (A0:6)	35° - 40°	0,13	0,13	4.120	39	1
BOX HB 45 M6 (A5:6)	25° - 45°	0,13	0,13	4.110	39	1
BOX HB 50 M6 (A0:6)	35° - 40°	0,25	0,25	5.280	41	1
BOX HB 50 M6 (A5:6)	25° - 45°	0,25	0,25	5.270	42	1
BOX HB 56 M6 (A2:6)	20° - 45°	0,25	0,55	9.010	48	1
BOX HB 56 M6 (A2:9)	20° - 45°	0,25	0,55	9.520	48	1
BOX HB 56 M6 (A5:6)	20° - 45°	0,25	0,55	9.760	64	1
BOX HB 63 M6 (A2:6)	20° - 45°	0,25	0,75	13.010	50	1
BOX HB 63 M6 (A2:9)	20° - 45°	0,37	0,75	14.110	50	1
BOX HB 63 M6 (A5:6)	20° - 45°	0,37	0,75	13.570	68	1
BOX HB 71 M6 (A2:6)	20° - 45°	0,55	1,10	18.110	53	1
BOX HB 71 M6 (A2:9)	20° - 45°	0,55	1,10	19.610	55	1
BOX HB 71 M6 (A5:6)	20° - 45°	0,55	1,10	18.350	73	1

### THREE PHASE RANGE / serie trifásica

#### 2 POLE / 2 polos

Model	Angle	Min. Rat. Power kW	Max. Rat. Power kW	Max. Air flow m <sup>3</sup> /h	Sound dB (A)	Connection diagram
BOX HB 40 T2 (A0:6)	25° - 40°	0,55	1,1	4.660	59	1

#### 4 POLE / 4 polos

Model	Angle	Min. Rat. Power kW	Max. Rat. Power kW	Max. Air flow m <sup>3</sup> /h	Sound dB (A)	Connection diagram
BOX HB 40 T4 (A0:6)	35° - 40°	0,12	0,25	4.670	48	1
BOX HB 45 T4 (A0:6)	35° - 40°	0,12	0,55	6.360	49	1
BOX HB 45 T4 (A5:6)	25° - 45°	0,12	0,55	6.350	48	1
BOX HB 50 T4 (A0:6)	35° - 40°	0,12	0,55	8.140	50	1
BOX HB 50 T4 (A5:6)	25° - 45°	0,12	0,55	8.130	51	1
BOX HB 56 T4 (A2:6)	20° - 45°	0,37	1,5	13.910	57	1
BOX HB 56 T4 (A2:9)	20° - 45°	0,37	1,5	14.710	57	1
BOX HB 56 T4 (A5:6)	20° - 45°	0,37	1,5	14.640	67	1
BOX HB 63 T4 (A2:6)	20° - 45°	0,37	3	20.110	59	1
BOX HB 63 T4 (A2:9)	20° - 45°	0,37	3	21.810	60	1
BOX HB 63 T4 (A5:6)	20° - 45°	0,37	3	20.350	71	1
BOX HB 71 T4 (A2:6)	20° - 45°	0,75	3	27.910	62	1
BOX HB 71 T4 (A2:9)	20° - 45°	0,75	3	27.100	65	1
BOX HB 71 T4 (A5:6)	20° - 45°	0,75	3	27.520	76	1
BOX HB 80 T4 (A2:6)	20° - 45°	1,1	5,5	39.010	64	1
BOX HB 80 T4 (A2:9)	20° - 45°	1,1	5,5	41.810	69	1
BOX HB 80 T4 (A5:6)	20° - 45°	1,1	5,5	37.790	73	1
BOX HB 90 T4 (A6:3)	20° - 42°	3	15	51.110	72	1
BOX HB 90 T4 (A6:6)	20° - 42°	3	15	58.310	73	1
BOX HB 100 T4 (A6:3)	20° - 42°	5,5	22	69.410	73	1
BOX HB 125 T4 (A7:8)	20° - 42°	11	45	143.500	86	1

#### 6 POLE / 6 polos

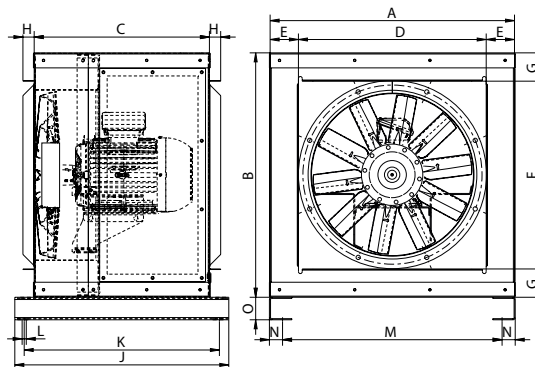
Model	Angle	Min. Rat. Power kW	Max. Rat. Power kW	Max. Air flow m <sup>3</sup> /h	Sound dB (A)	Connection diagram
BOX HB 40 T6 (A0:6)	35° - 40°	0,12	0,12	3.030	39	1
BOX HB 45 T6 (A0:6)	35° - 40°	0,13	0,13	4.120	39	1
BOX HB 45 T6 (A5:6)	25° - 45°	0,13	0,13	4.110	39	1

# INLINE CABINET FANS

## Cajas de ventilación inline

Model	Angle	Min. Rat. Power kW	Max. Rat. Power kW	Max. Air flow m <sup>3</sup> /h	Sound dB (A)	Connection diagram
BOX HB 50 T6 (A0:6)	35° - 40°	0,25	0,25	5.280	41	1
BOX HB 50 T6 (A5:6)	25° - 45°	0,25	0,25	5.270	42	1
BOX HB 56 T6 (A2:6)	20° - 45°	0,25	0,55	9.010	48	1
BOX HB 56 T6 (A2:9)	20° - 45°	0,25	0,55	9.520	48	1
BOX HB 56 T6 (A5:6)	20° - 45°	0,25	0,55	9.760	64	1
BOX HB 63 T6 (A2:6)	20° - 45°	0,25	0,75	13.010	50	1
BOX HB 63 T6 (A2:9)	20° - 45°	0,37	0,75	14.110	50	1
BOX HB 63 T6 (A5:6)	20° - 45°	0,37	0,75	13.570	68	1
BOX HB 71 T6 (A2:6)	20° - 45°	0,55	1,1	18.110	53	1
BOX HB 71 T6 (A2:9)	20° - 45°	0,55	1,1	19.610	55	1
BOX HB 71 T6 (A5:6)	20° - 45°	0,55	1,1	18.350	73	1
BOX HB 80 T6 (A2:6)	20° - 45°	0,75	2,2	25.310	54	1
BOX HB 80 T6 (A2:9)	20° - 45°	0,75	2,2	27.110	60	1
BOX HB 80 T6 (A5:6)	20° - 45°	0,75	2,2	25.200	69	1
BOX HB 90 T6 (A6:3)	20° - 42°	1,5	4	33.110	62	1
BOX HB 90 T6 (A6:6)	20° - 42°	1,5	4	37.810	63	1
BOX HB 100 T6 (A6:3)	20° - 42°	2,2	7,5	45.010	63	1
BOX HB 100 T6 (A6:6)	20° - 42°	2,2	7,5	52.610	67	1
BOX HB 112 T6 (A6:3)	20° - 42°	2,2	11	59.710	66	1
BOX HB 112 T6 (A6:6)	20° - 42°	2,2	11	70.510	70	1
BOX HB 125 T6 (A7:4)	20° - 42°	3	15	85.410	73	1
BOX HB 125 T6 (A7:8)	20° - 42°	3	15	98.110	77	1

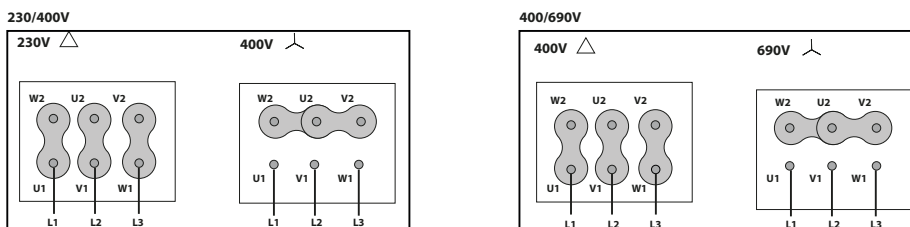
### DIMENSIONS / dimensiones (mm)



MODEL	A	B	C	D	E	F	G	H	J	K	L	M	N	O
BOX HB 40	651	651	467	500	75	500	75	30	570	520	11	585	35	60
BOX HB 45	651	651	467	500	75	500	75	30	570	520	11	585	35	60
BOX HB 50	651	651	467	500	75	500	75	30	570	520	11	585	35	60
BOX HB 56	781,5	781,5	542	630	76	630	76	30	665	610	11	715	35	60
BOX HB 63	781,5	781,5	542	630	76	630	76	30	665	610	11	715	35	60
BOX HB 71	951,5	951,5	597	800	76	800	76	30	705	650	11	885	35	60
BOX HB 80	951,5	951,5	597	800	76	800	76	30	705	650	11	885	35	60
BOX HB 90	1176,5	1176,5	857	1000	88	1000	88	30	965	915	11	1110	35	90
BOX HB 100	1176,5	1176,5	857	1000	88	1000	88	30	965	915	11	1110	35	90
BOX HB 112	1416,5	1413,5	1019	1250	83	1250	82	30	1125	1075	11	1350	35	90
BOX HB 125	1416,5	1413,5	1019	1250	83	1250	82	30	1125	1075	11	1350	35	90

### CONNECTION DIAGRAMS / esquema de conexiones

#### 1 THREE PHASE MOTORS 1 SPEED / motores trifásicos 1 velocidad

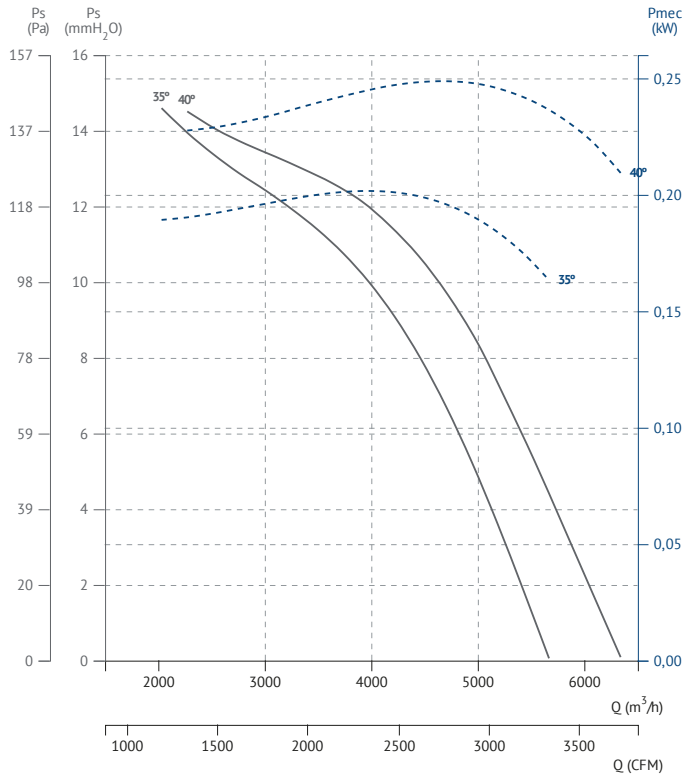




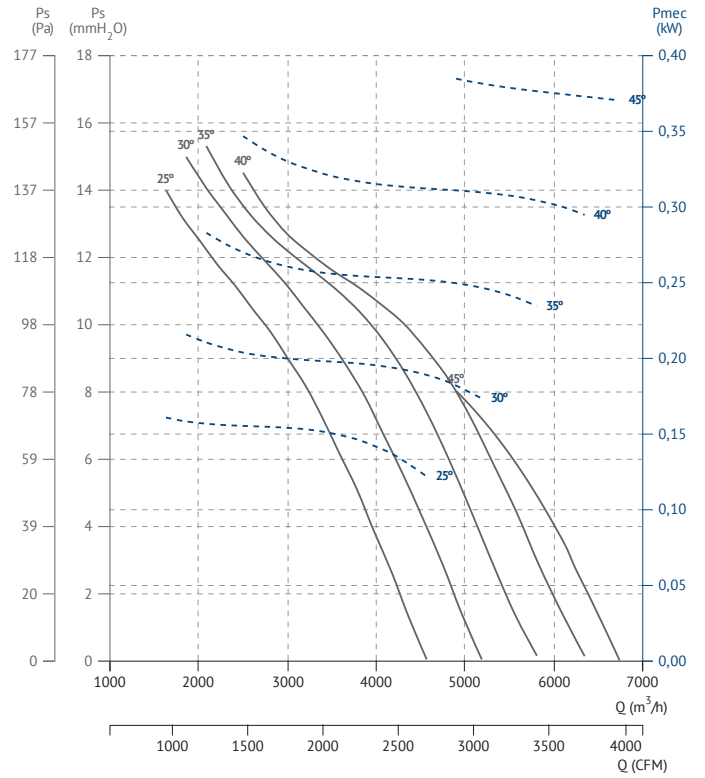
Cajas de ventilación inline

CHARACTERISTIC CURVES / curvas características

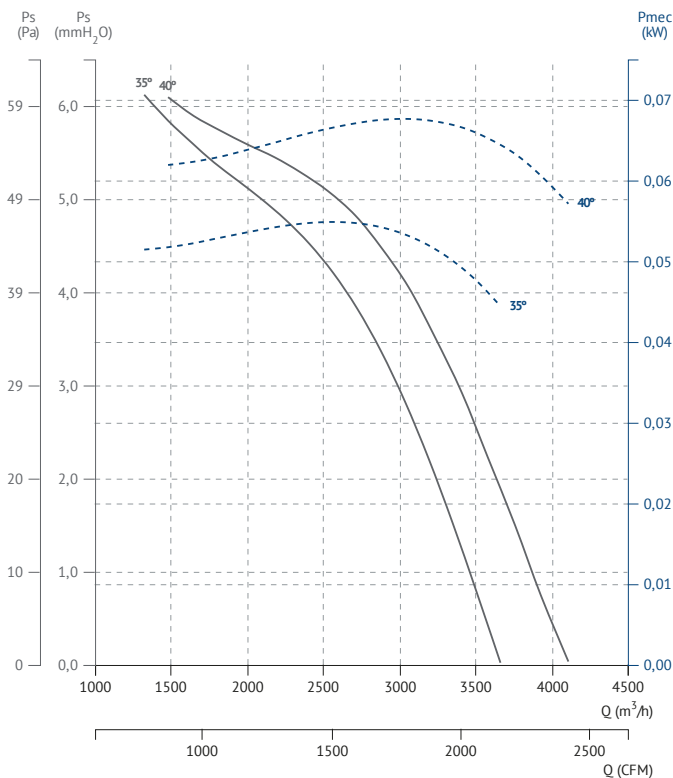
BOX HB 45 M4 (A0:6)



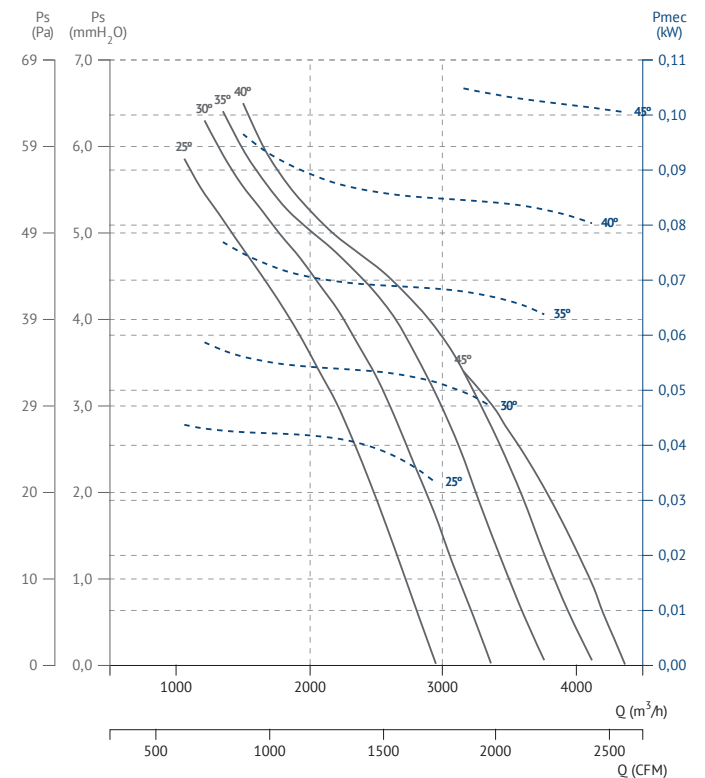
BOX HB 45 M4 (A5:6)



BOX HB 45 M6 (A0:6)



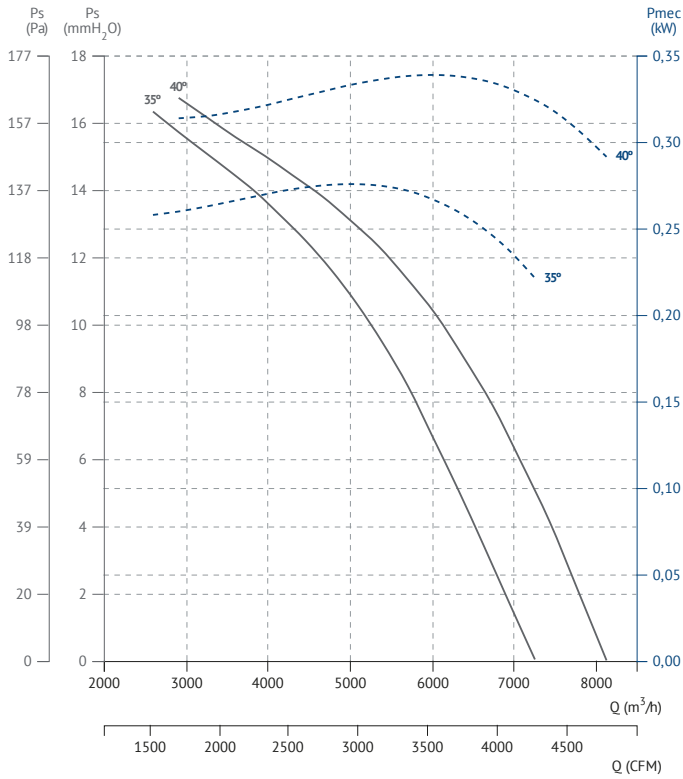
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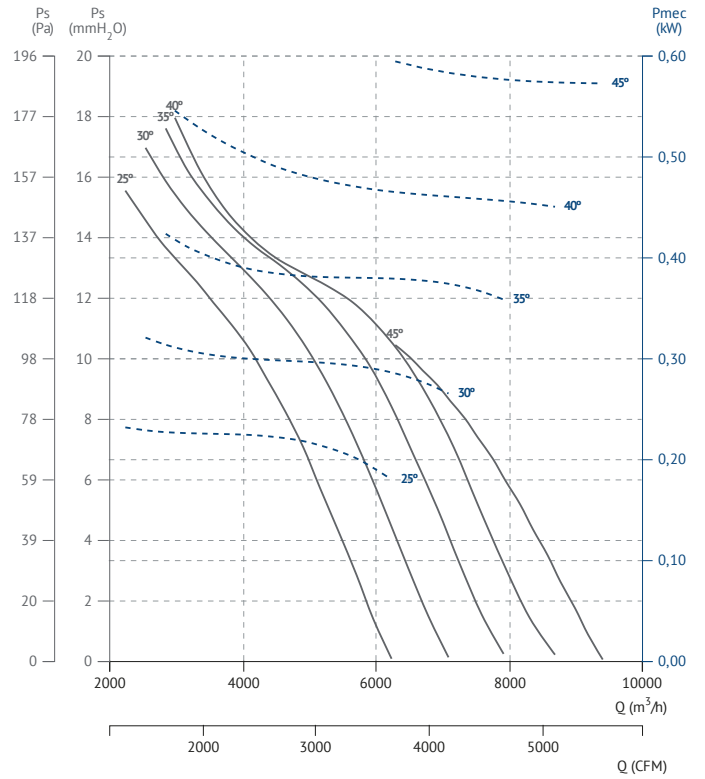


Cajas de ventilación inline

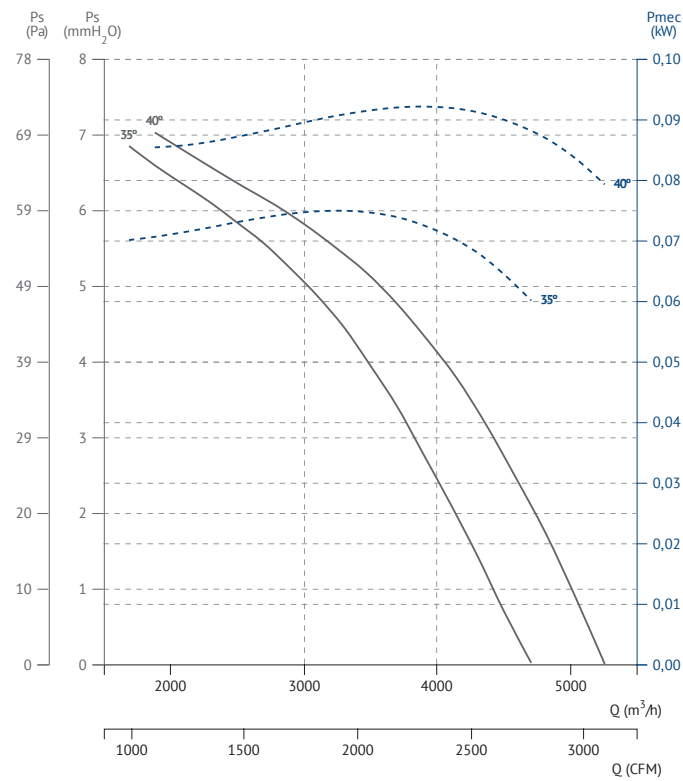
**BOX HB 50 M4 (A0:6)**



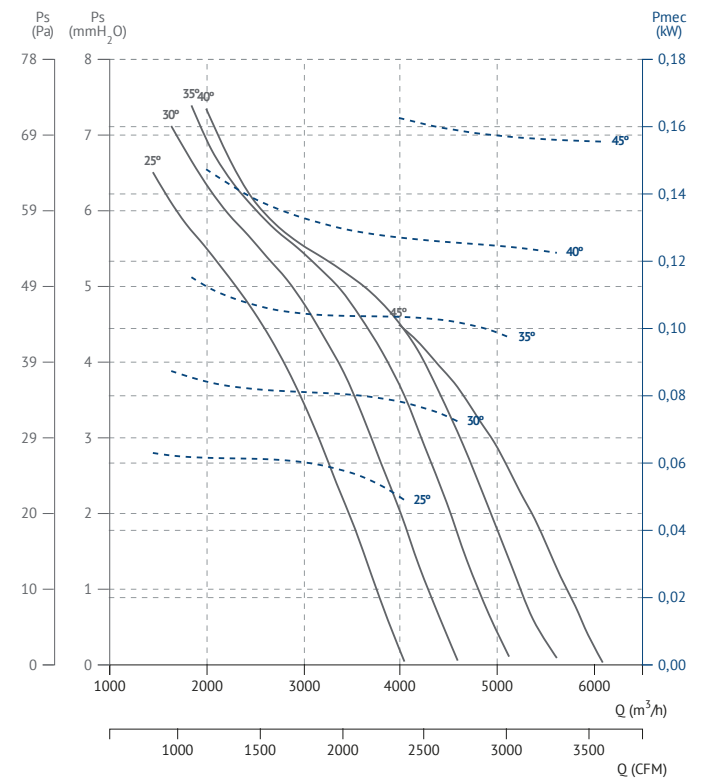
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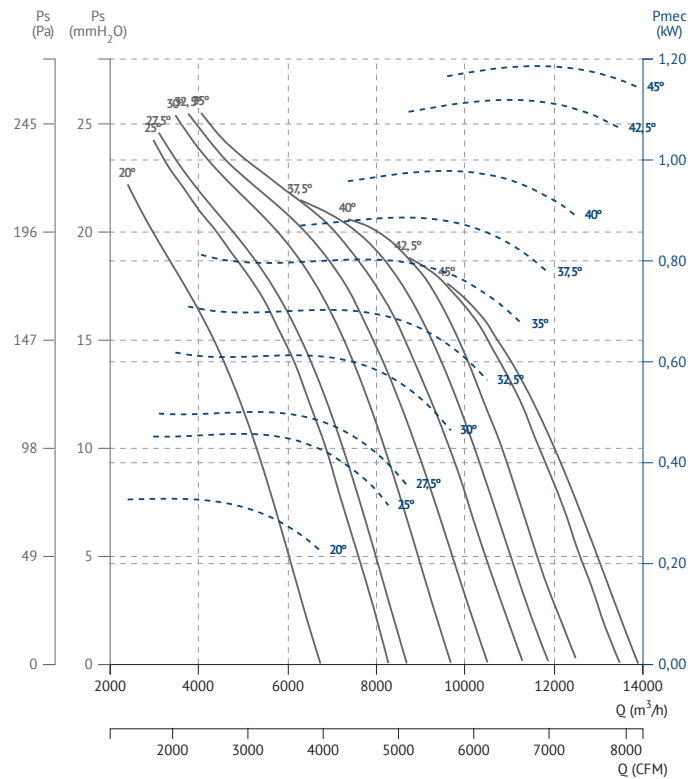
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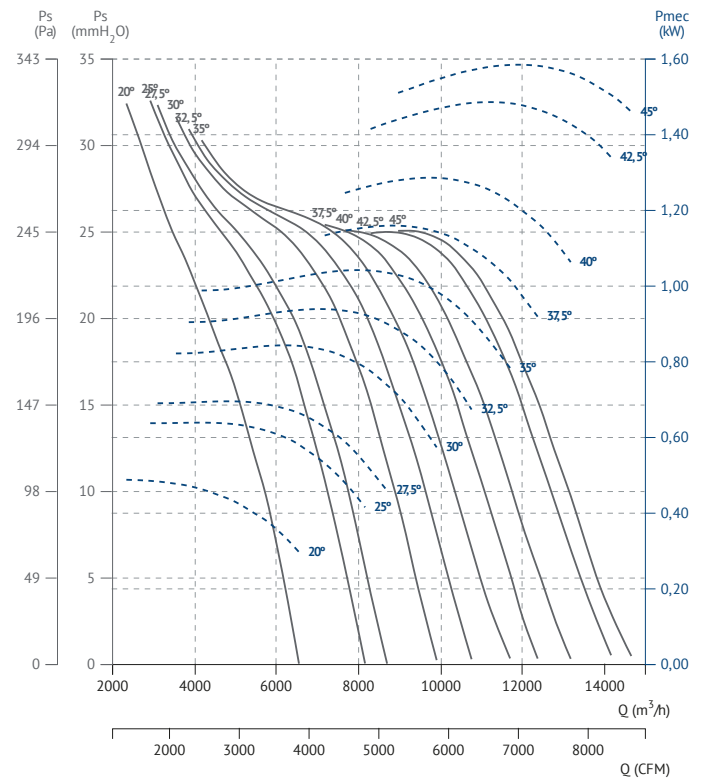
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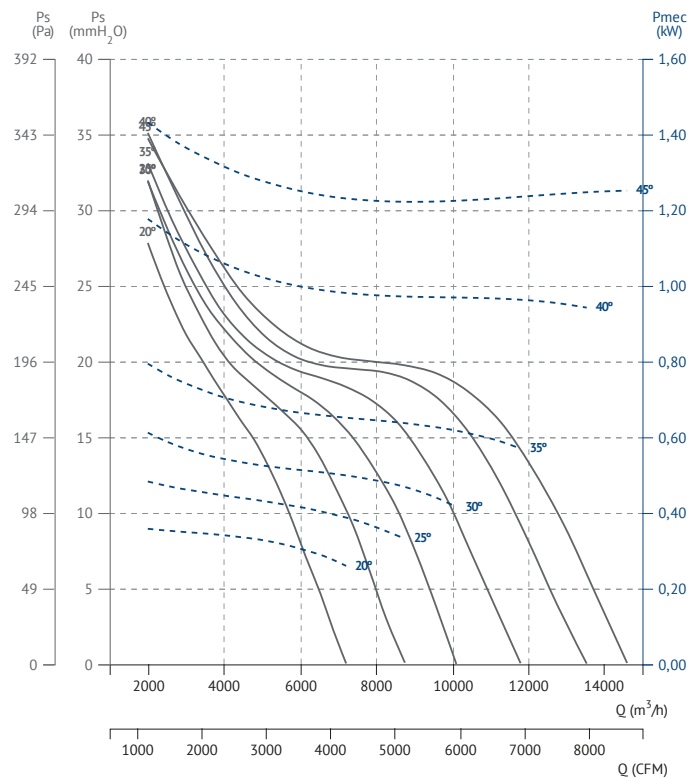
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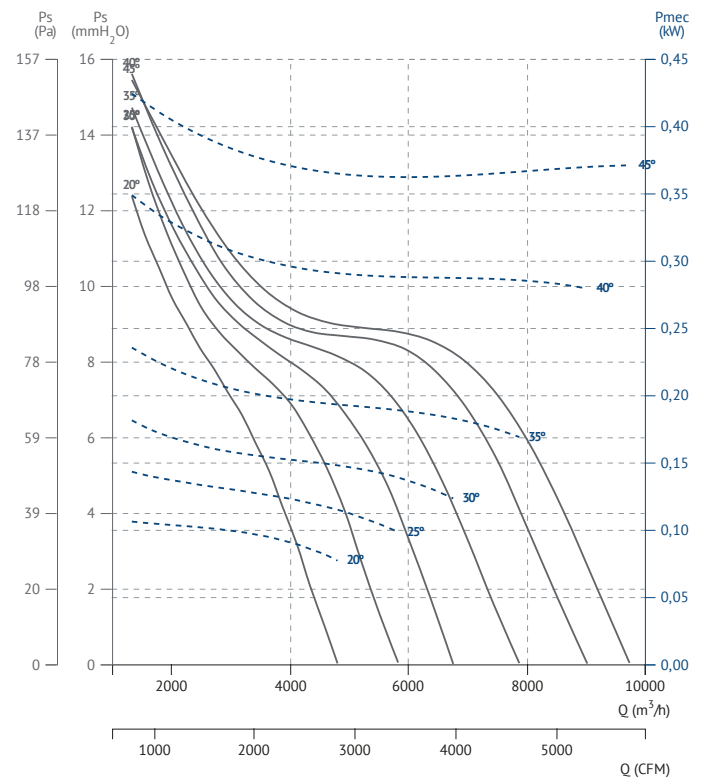
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**BOX HB 56 M4 (A5:6)**

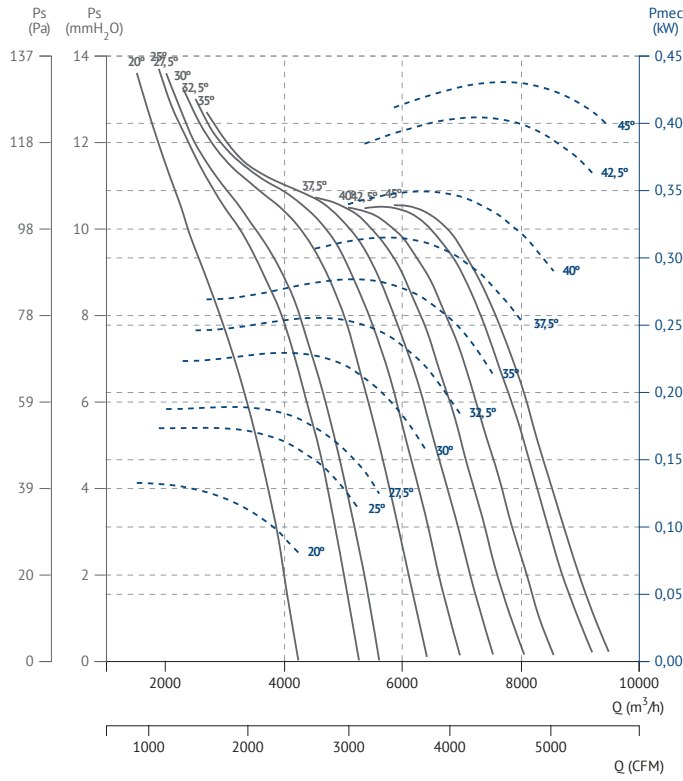


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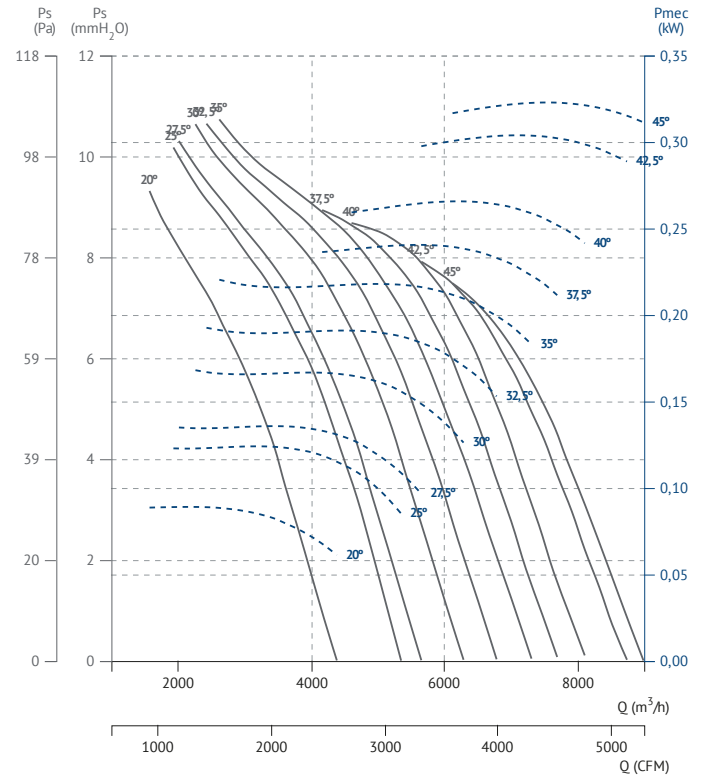




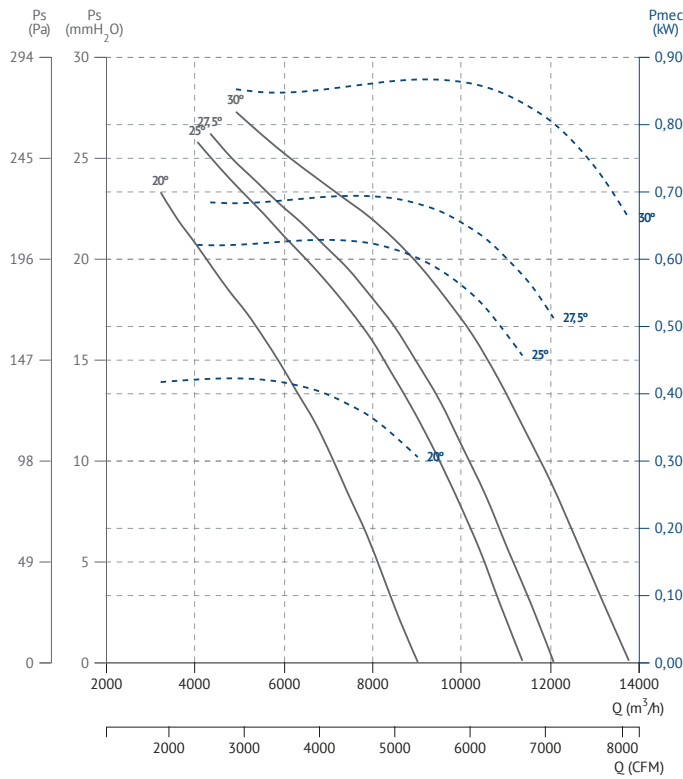
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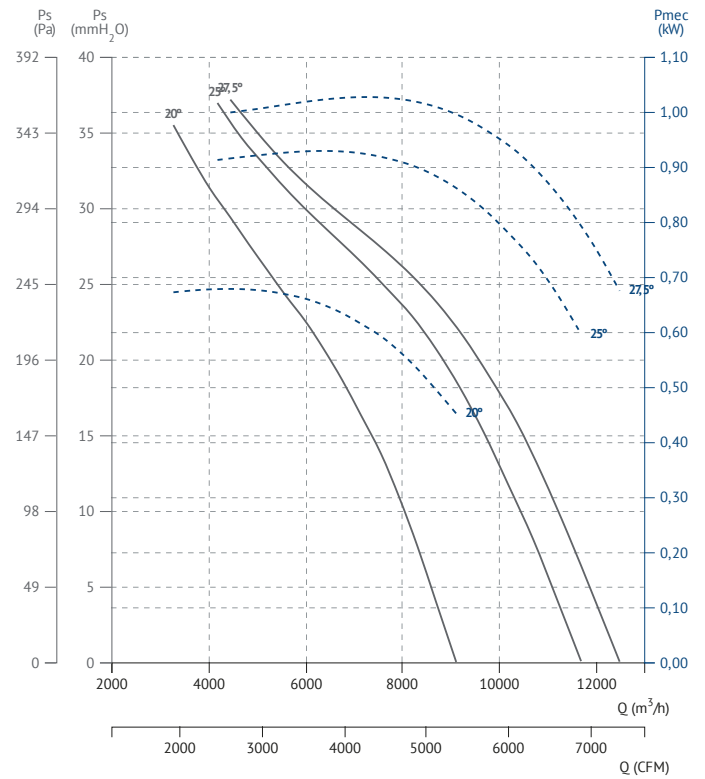
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**BOX HB 63 M4 (A2:6)**



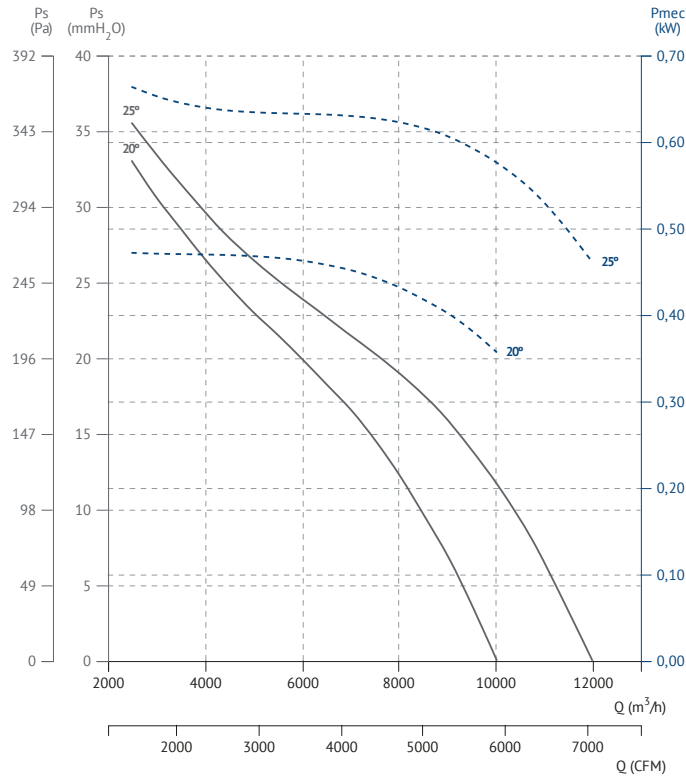
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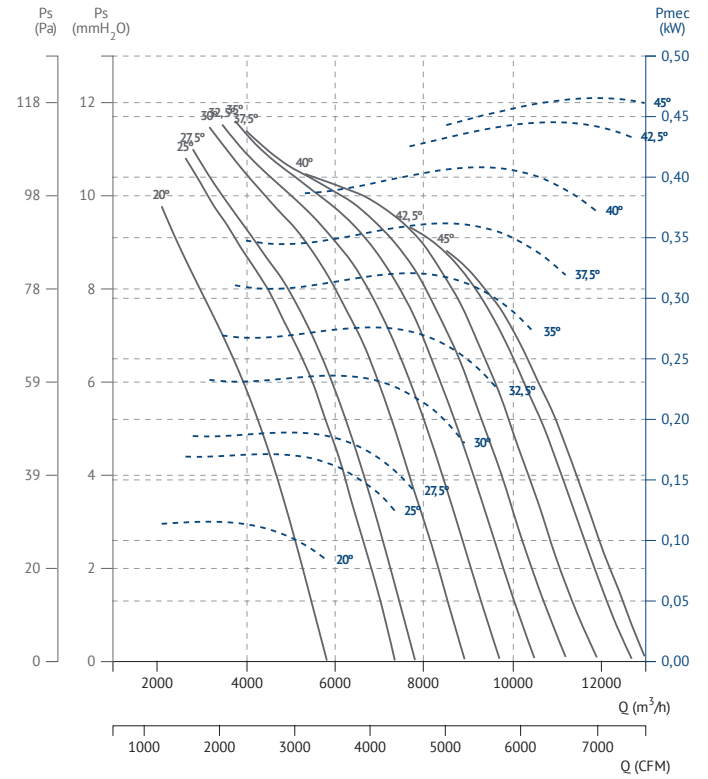
Cajas de ventilación inline



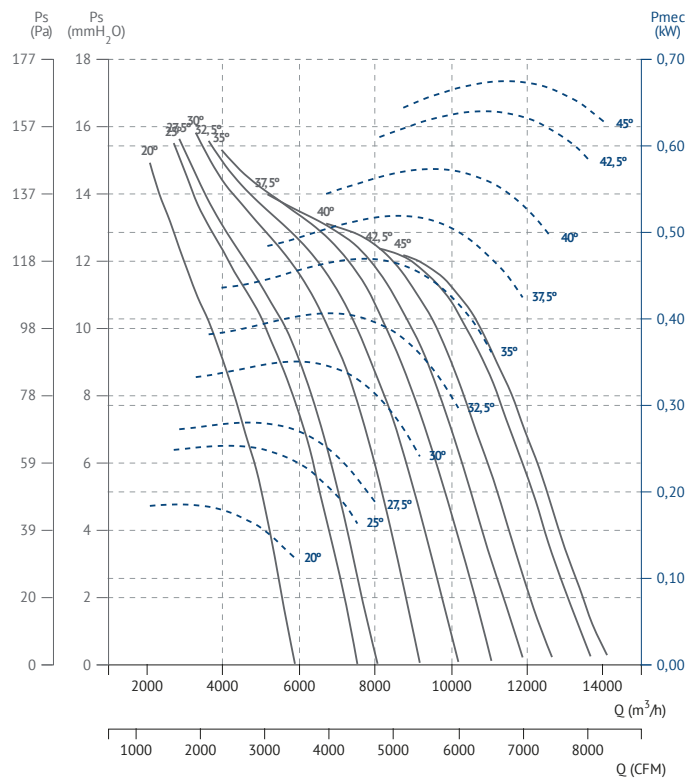
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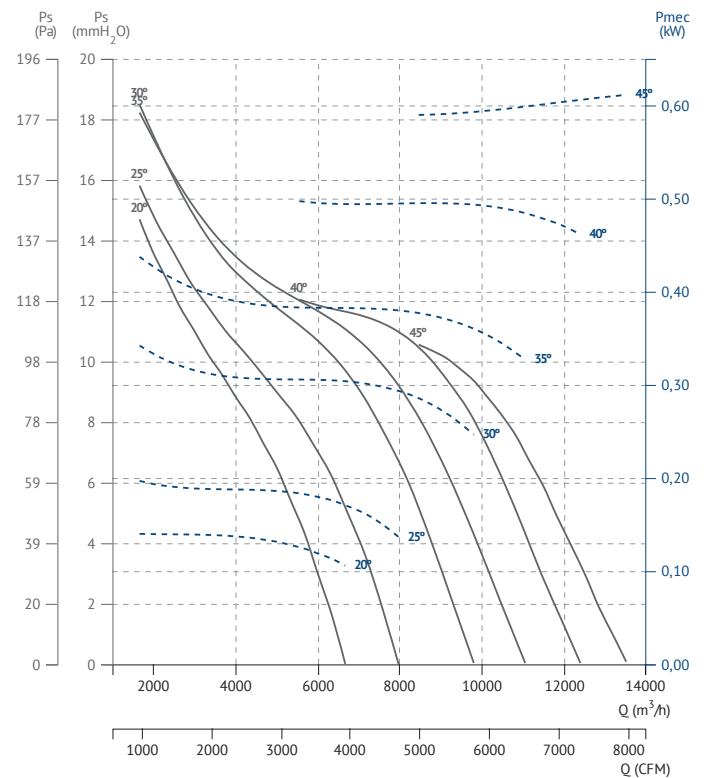
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**BOX HB 63 M6 (A2:9)**



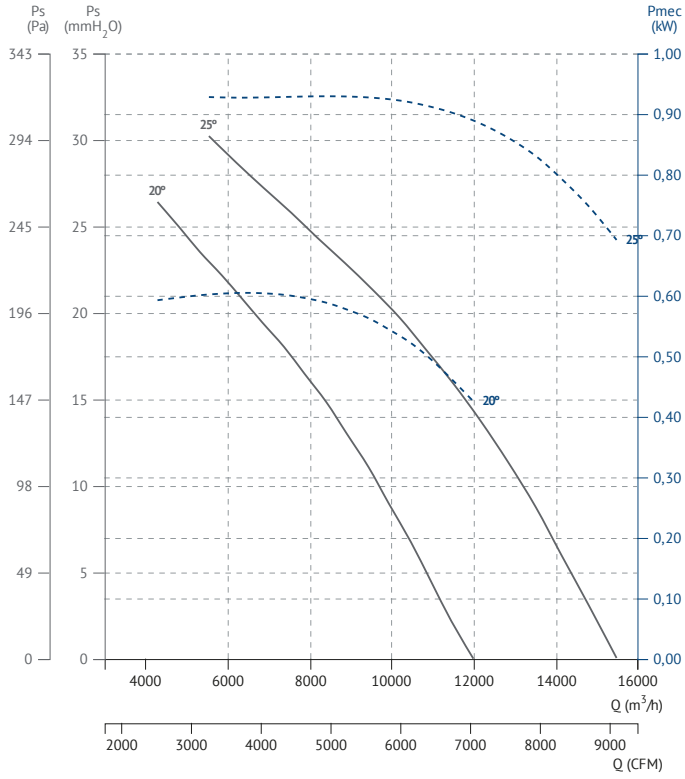
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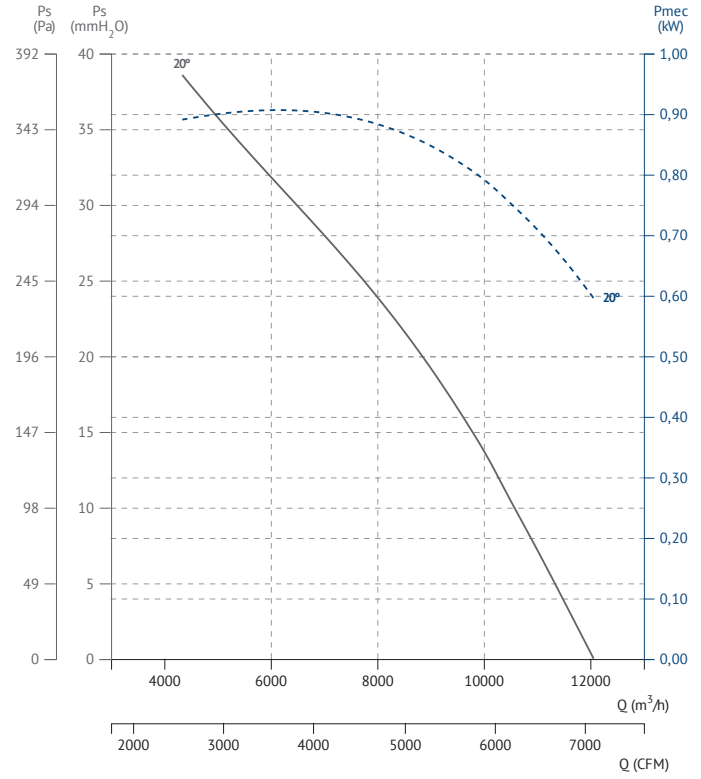




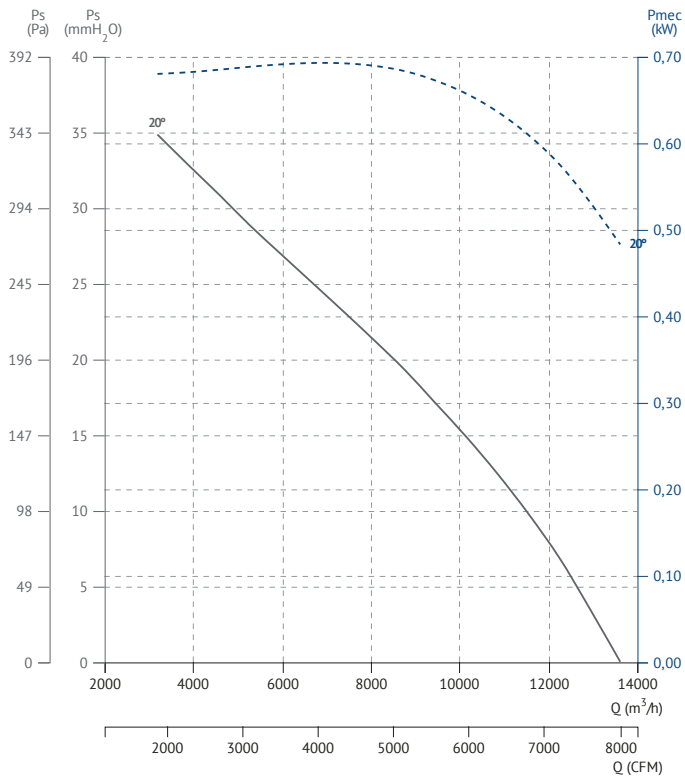
**BOX HB 71 M4 (A2:6)**



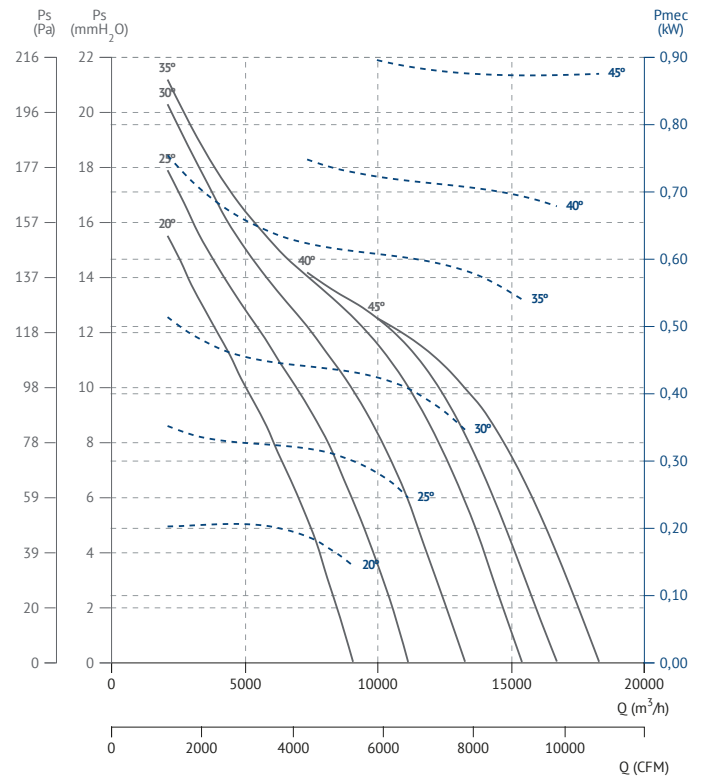
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**BOX HB 71 M4 (A5:6)**



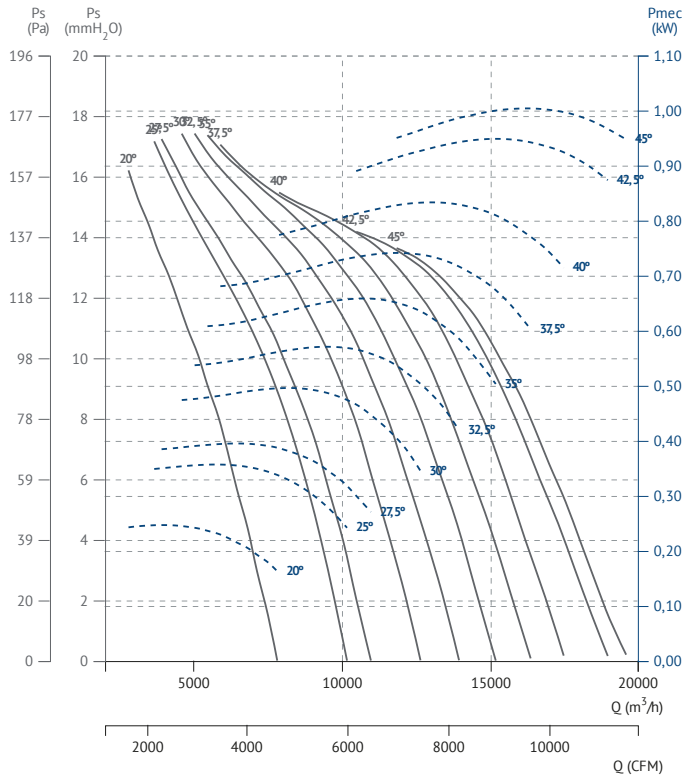
**BOX HB 71 M6 (A5:6)**



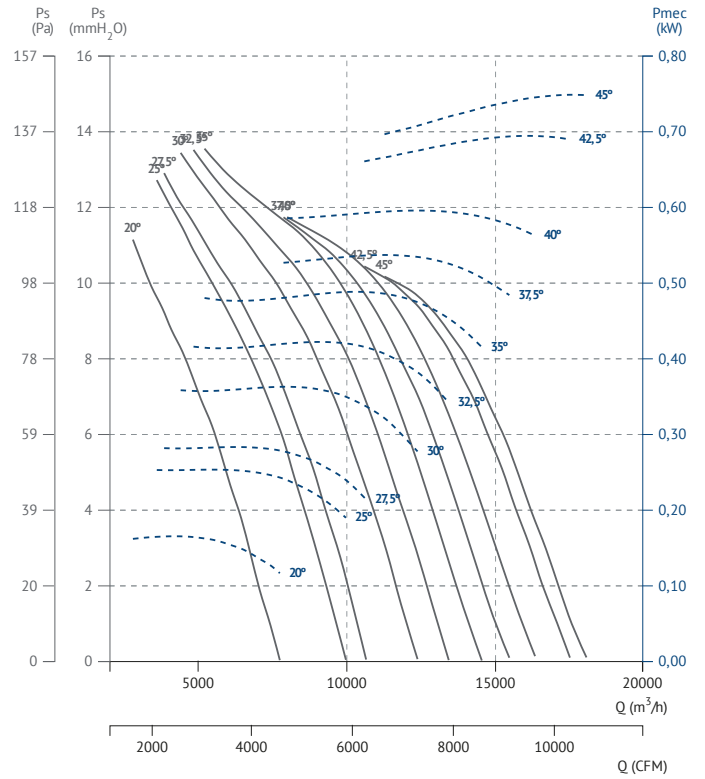
Cajas de ventilación inline



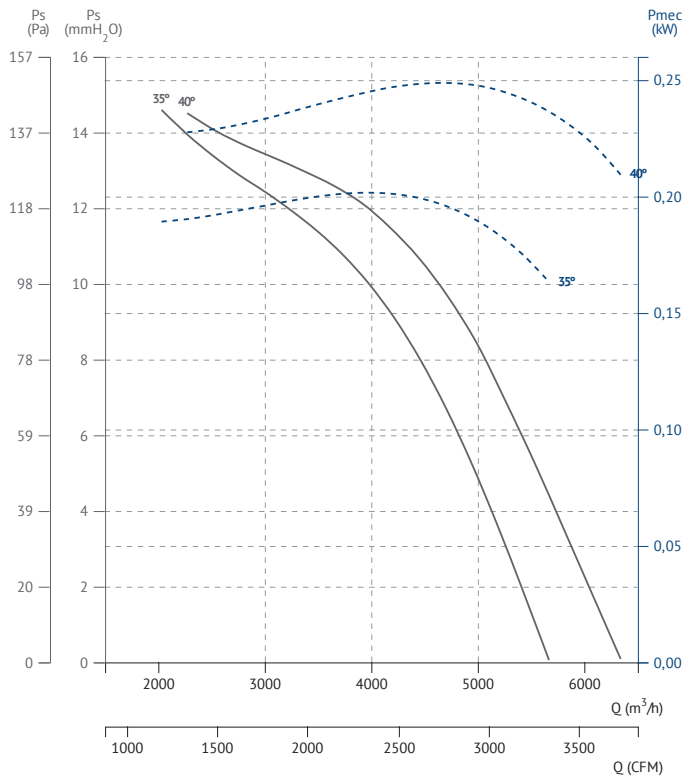
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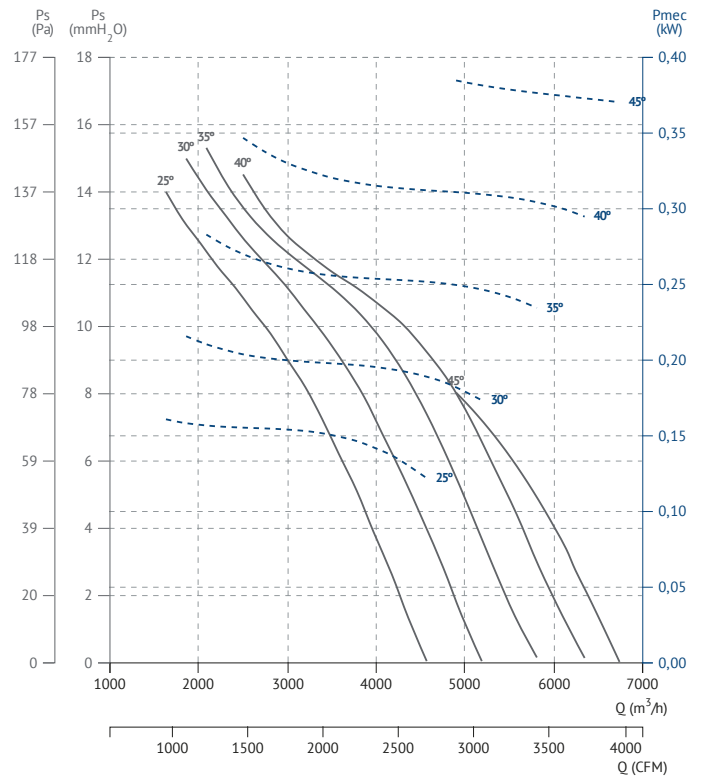
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**BOX HB 45 T4 (A0:6)**



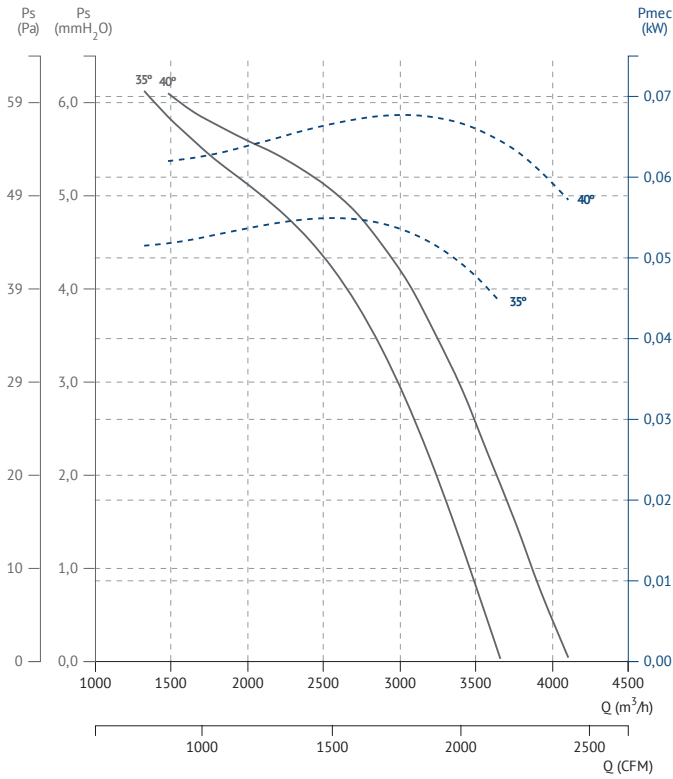
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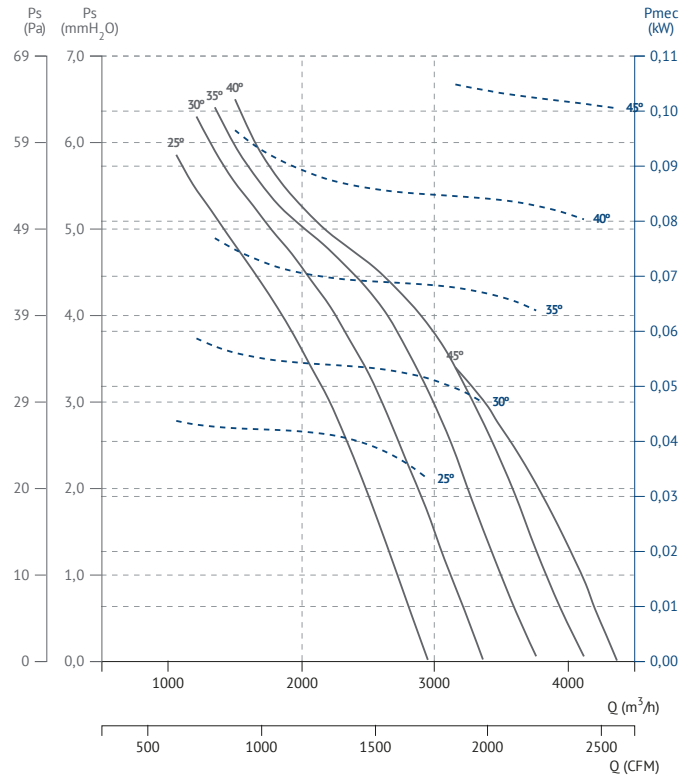


Cajas de ventilación inline

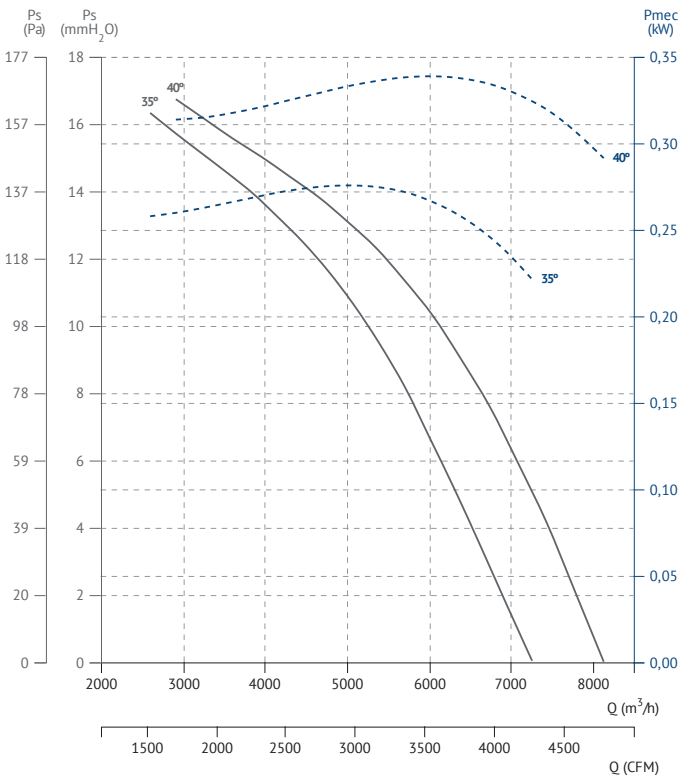
**BOX HB 45 T6 (A0:6)**



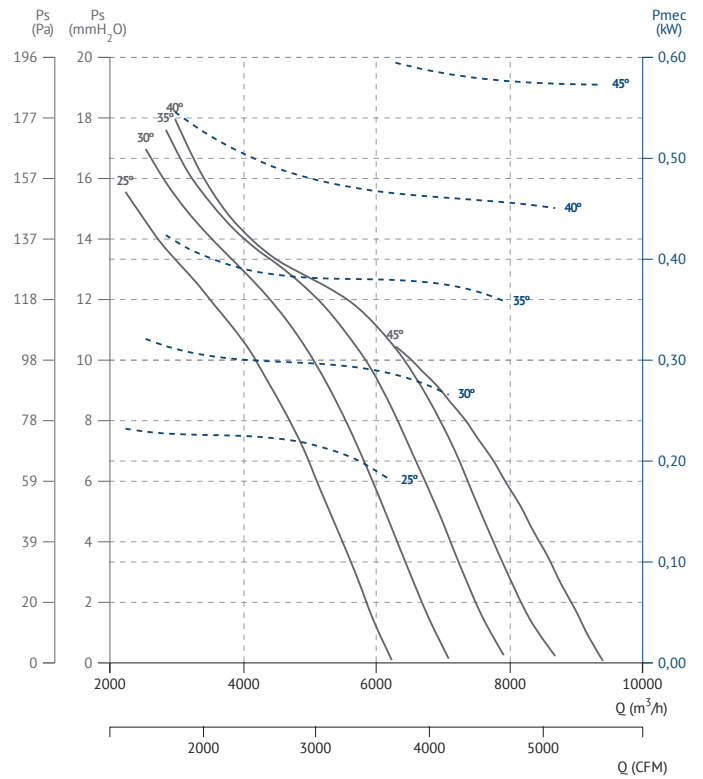
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**BOX HB 50 T4 (A0:6)**



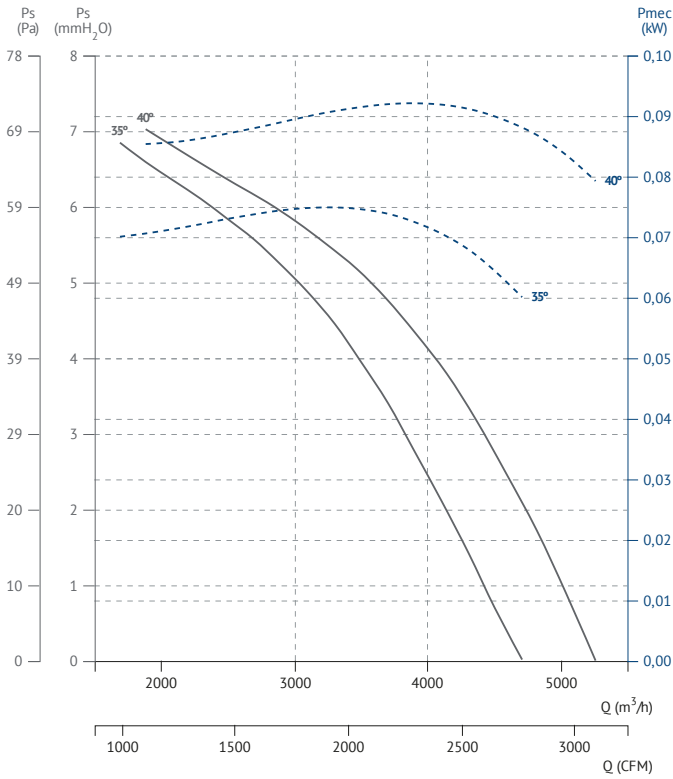
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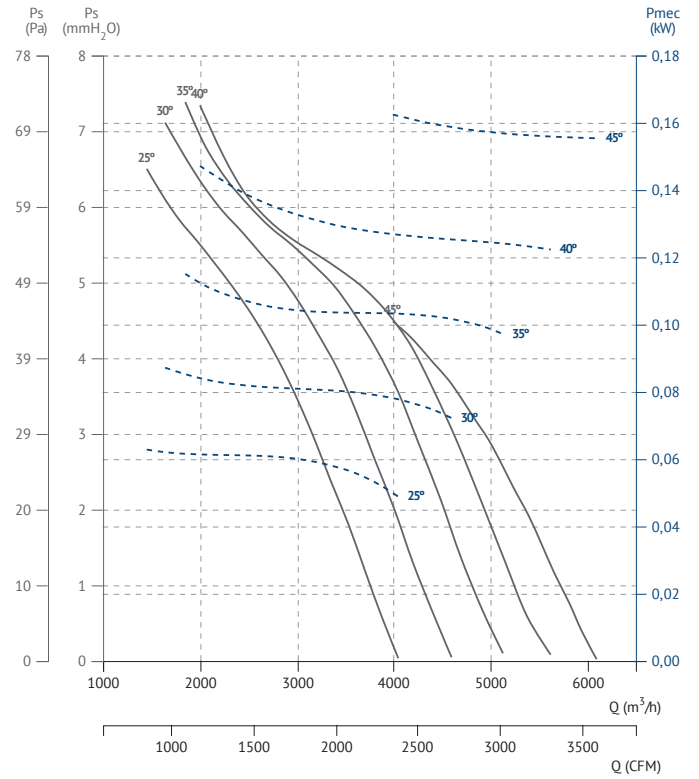
Cajas de ventilación inline



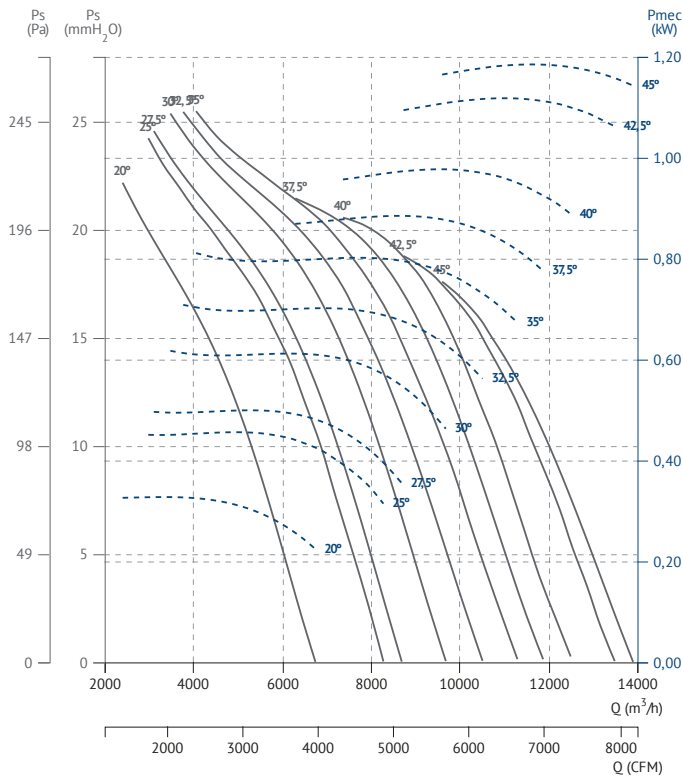
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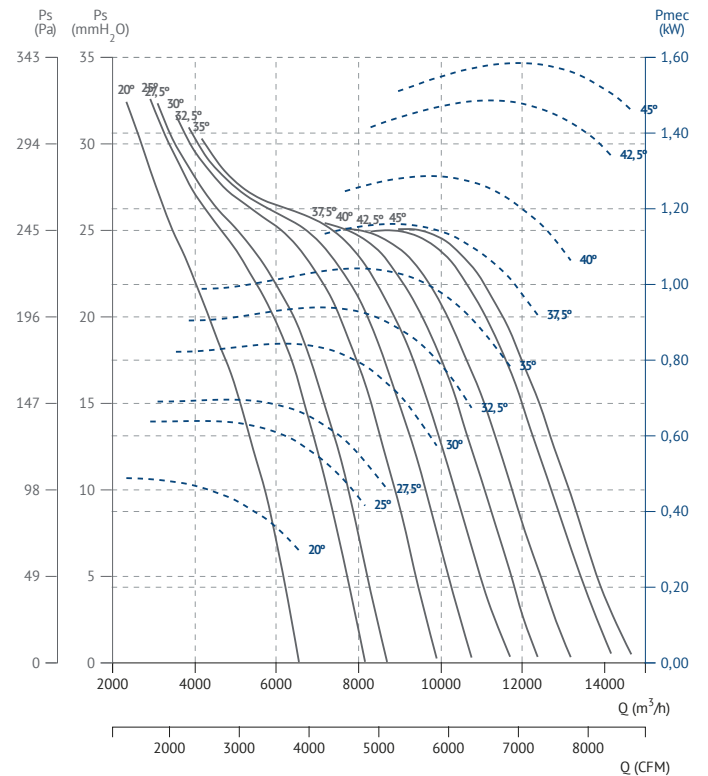
**BOX HB 50 T6 (A5:6)**



**BOX HB 56 T4 (A2:6)**



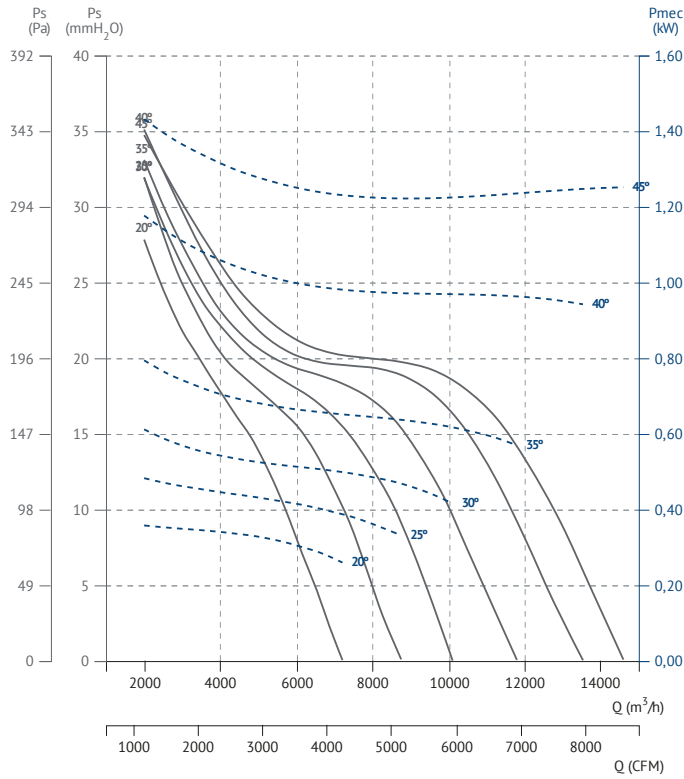
**BOX HB 56 T4 (A2:9)**



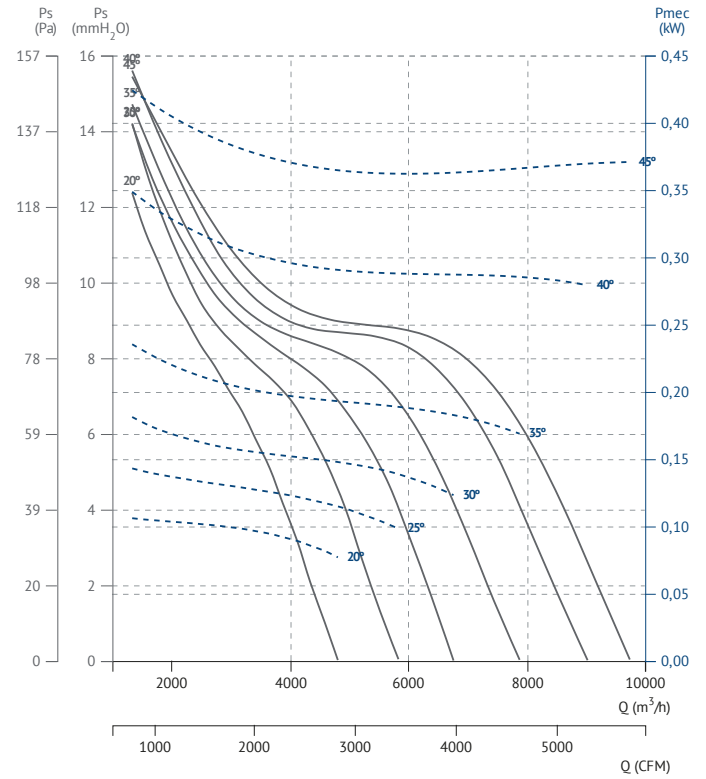


Cajas de ventilación inline

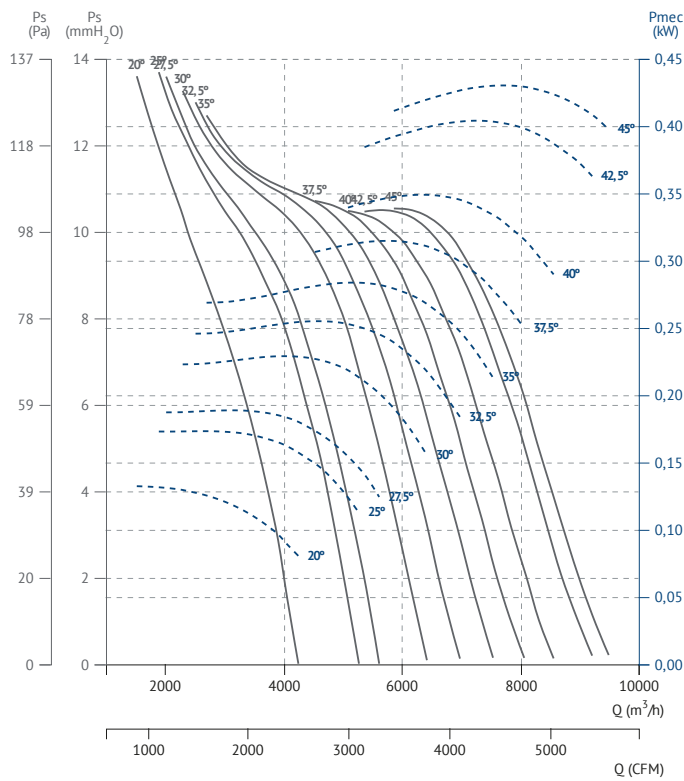
**BOX HB 56 T4 (A5:6)**



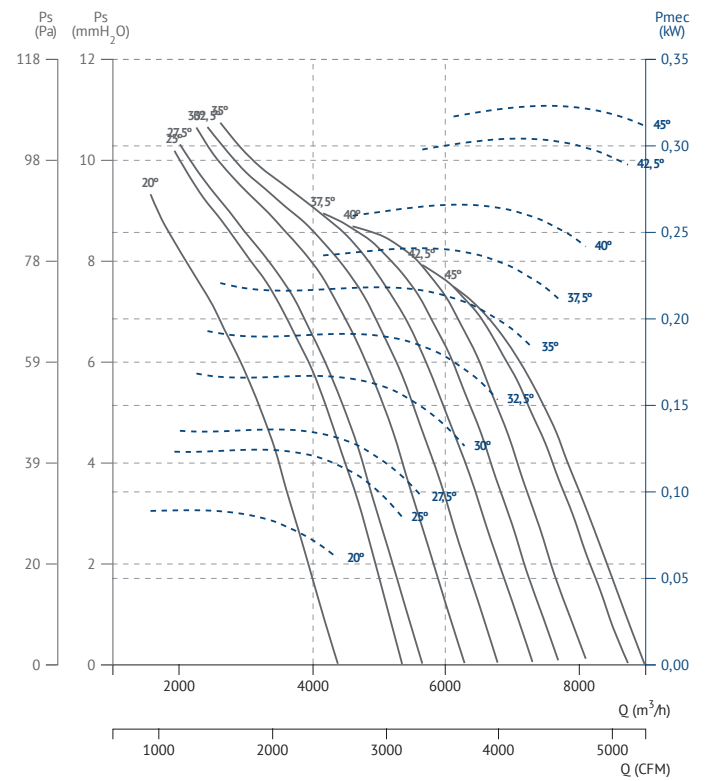
**BOX HB 56 T6 (A5:6)**



**BOX HB 56 T6 (A2:9)**



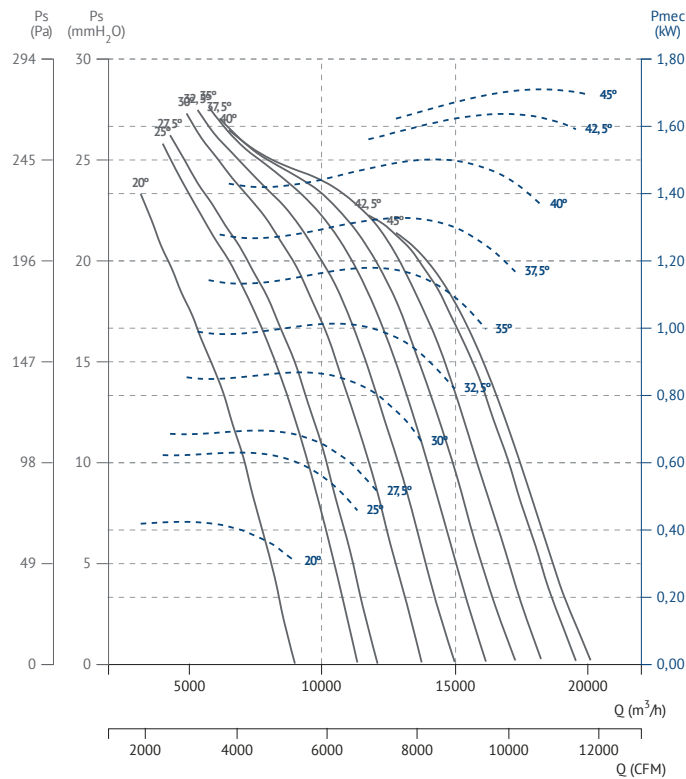
**BOX HB 56 T6 (A2:6)**



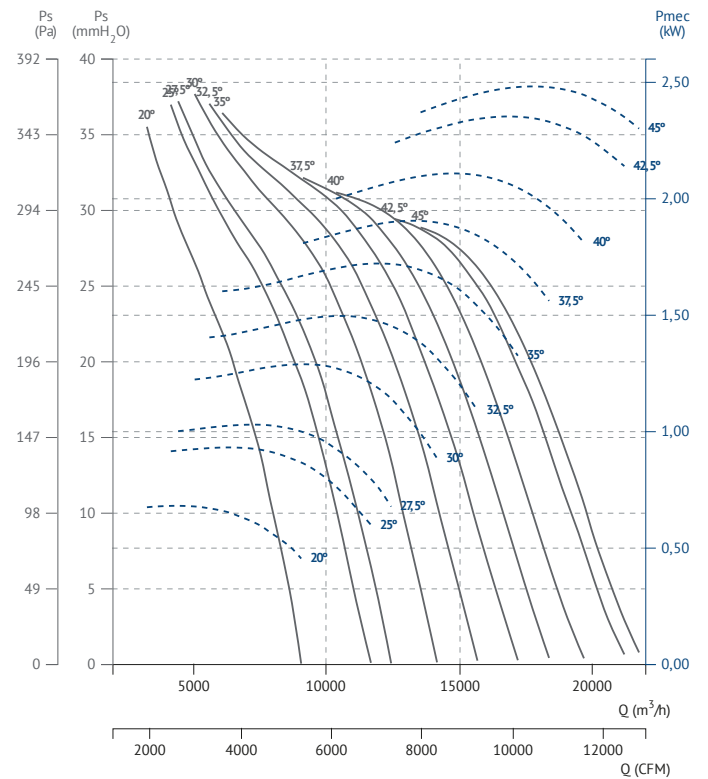


Cajas de ventilación inline

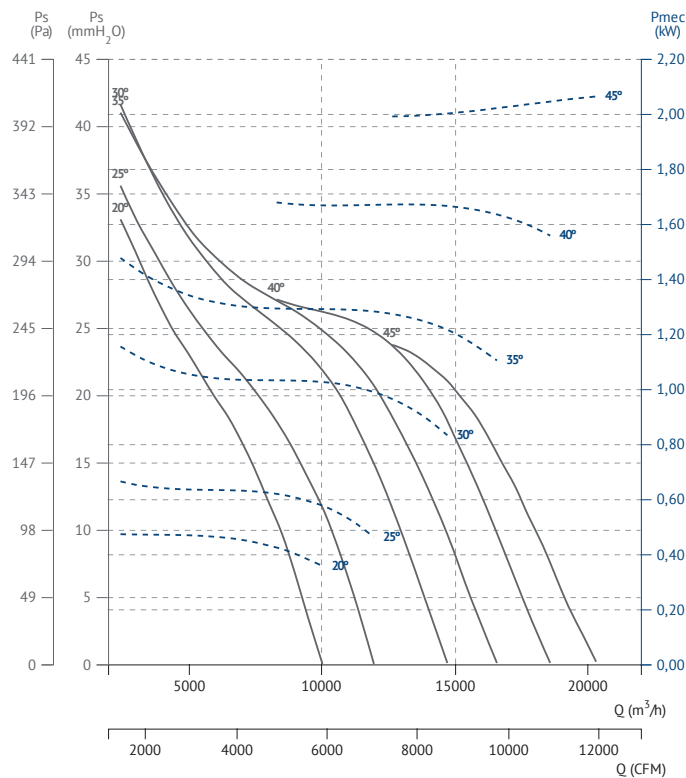
**BOX HB 63 T4 (A2:6)**



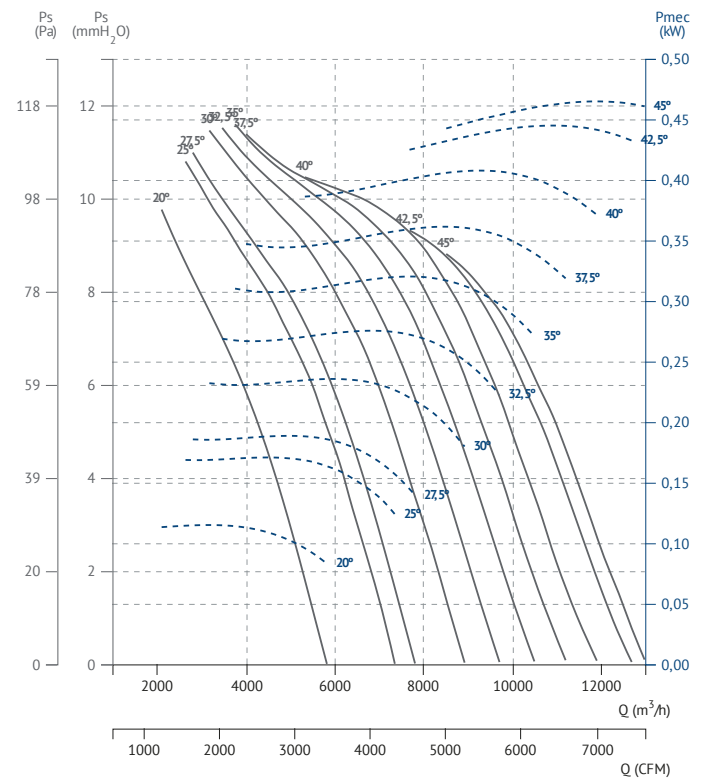
**BOX HB 63 T4 (A2:9)**



**BOX HB 63 T4 (A5:6)**

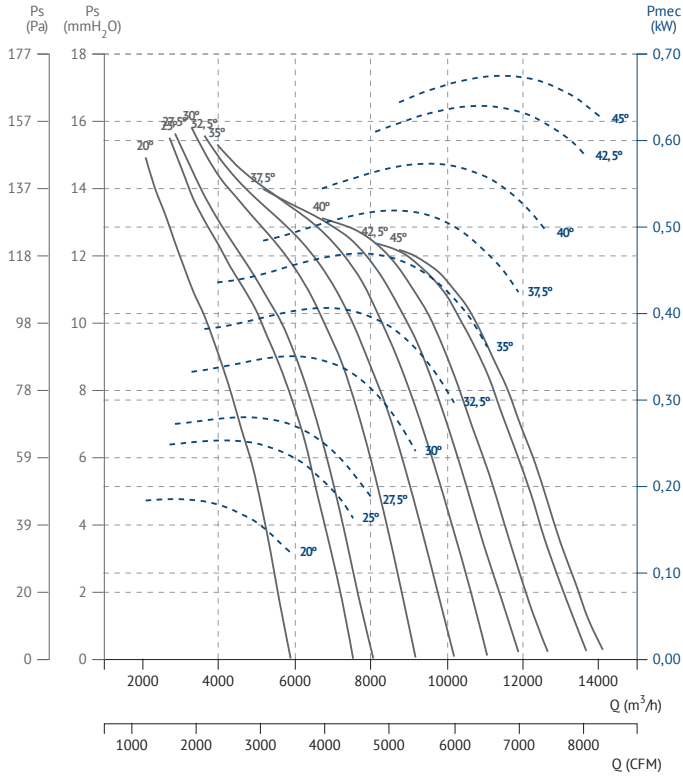


**BOX HB 63 T6 (A2:6)**

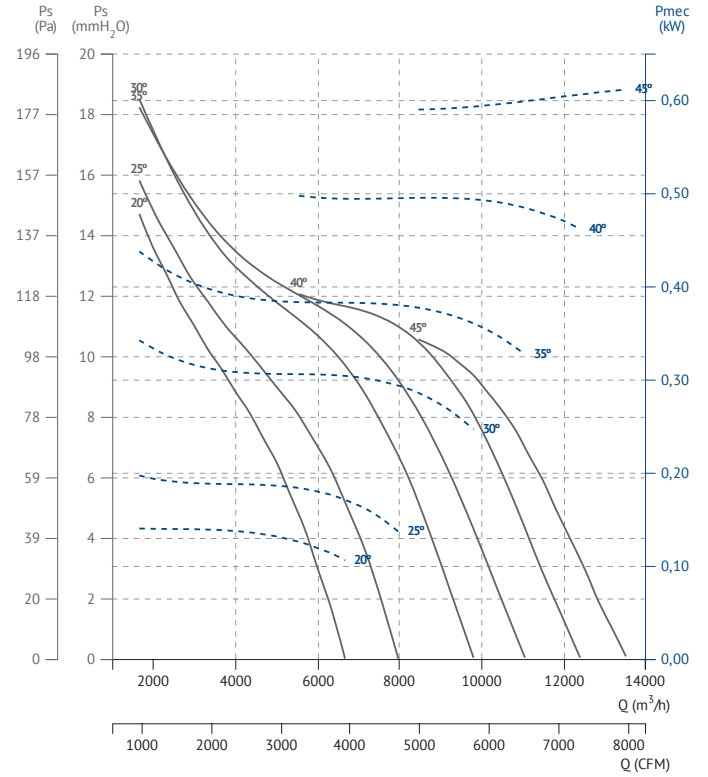




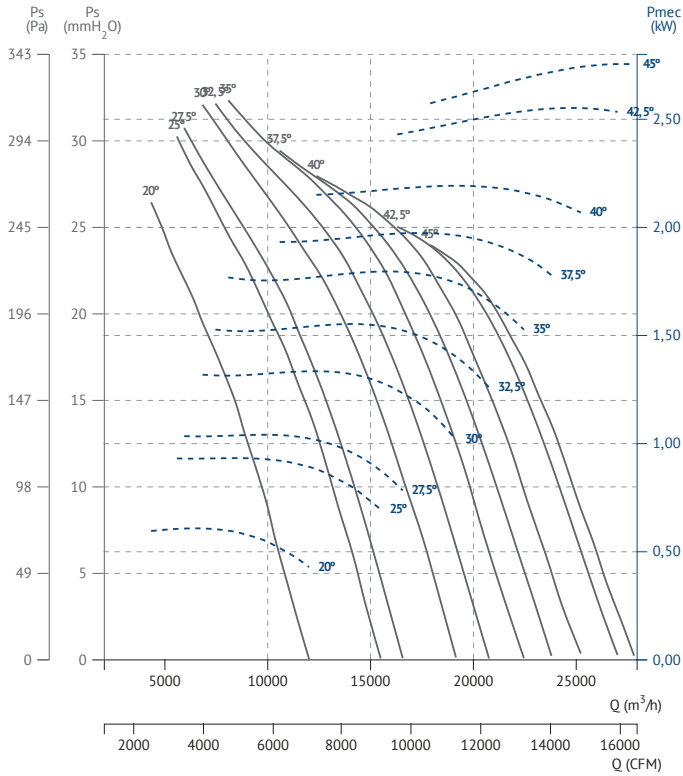
**BOX HB 63 T6 (A2:9)**



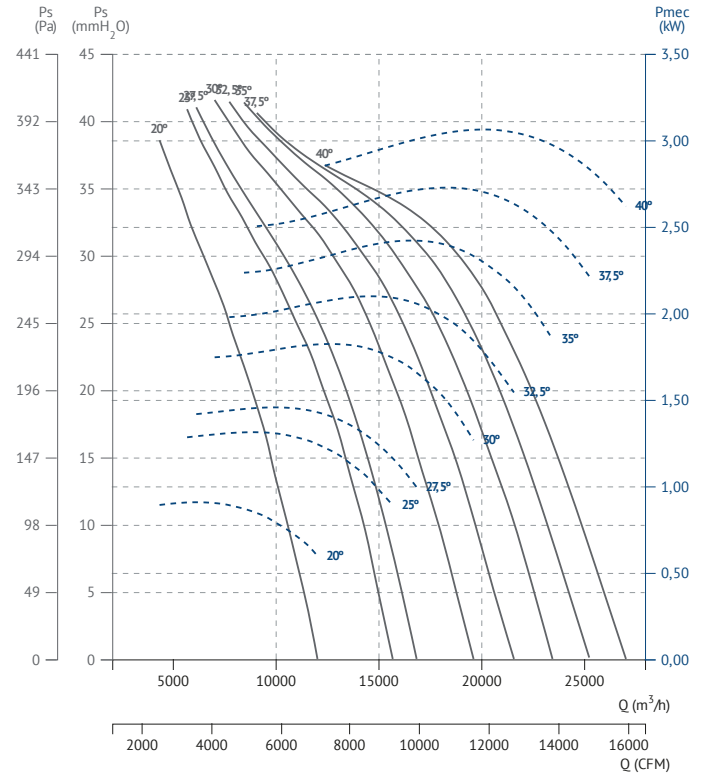
**BOX HB 63 T6 (A5:6)**



**BOX HB 71 T4 (A2:6)**



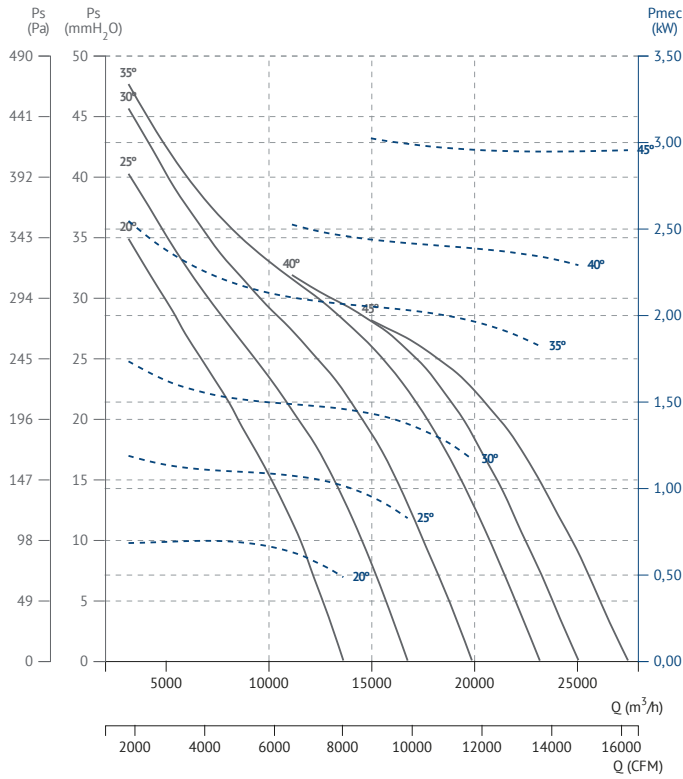
**BOX HB 71 T4 (A2:9)**



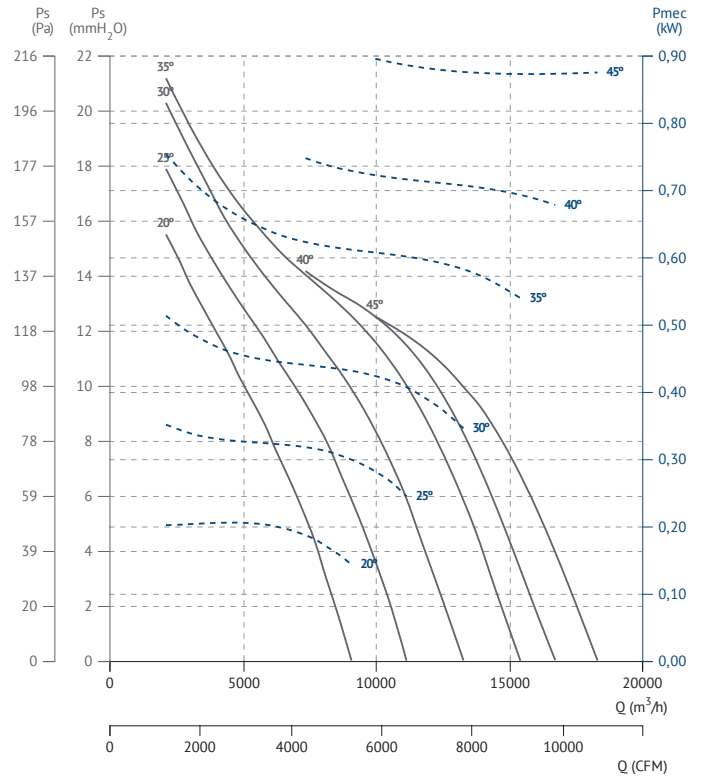
Cajas de ventilación inline



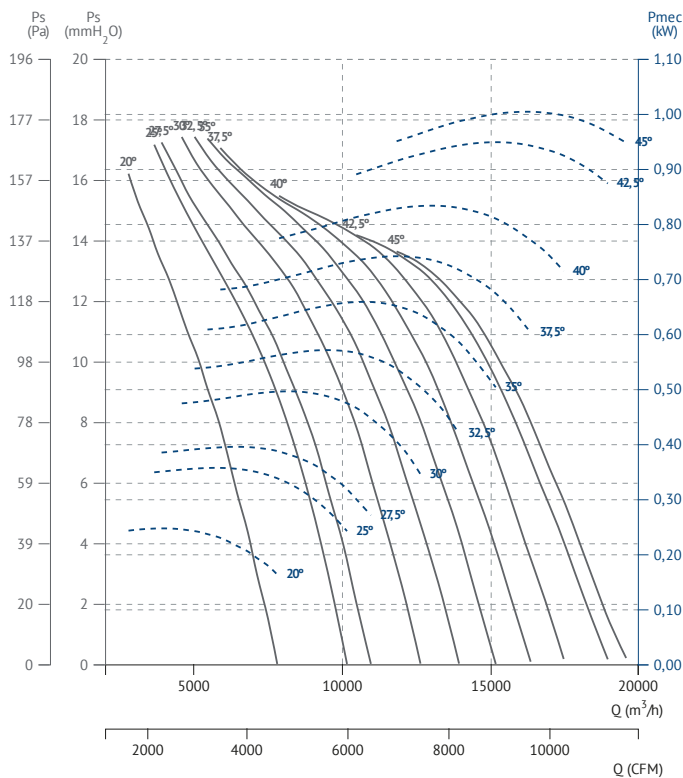
**BOX HB 71 T4 (A5:6)**



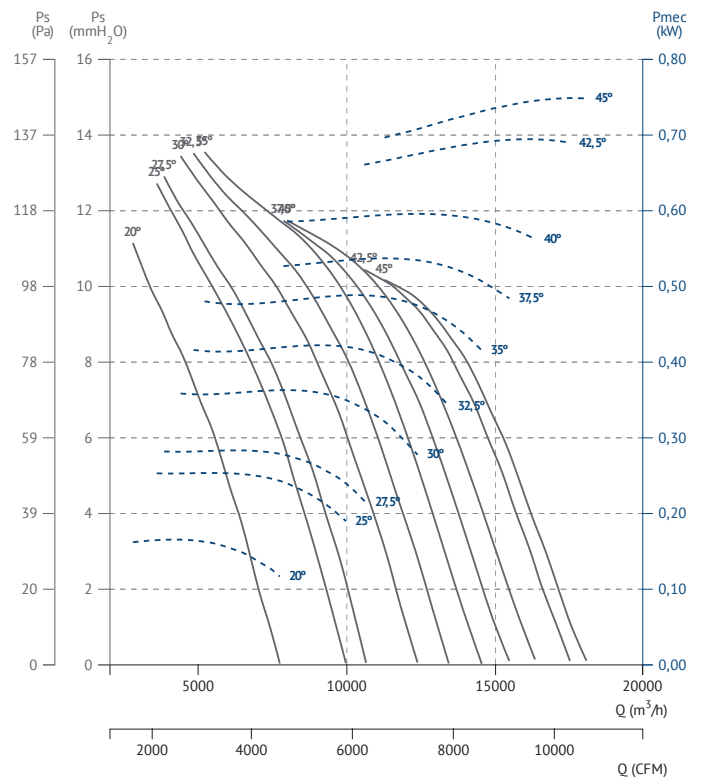
**BOX HB 71 T6 (A5:6)**



**BOX HB 71 T6 (A2:9)**



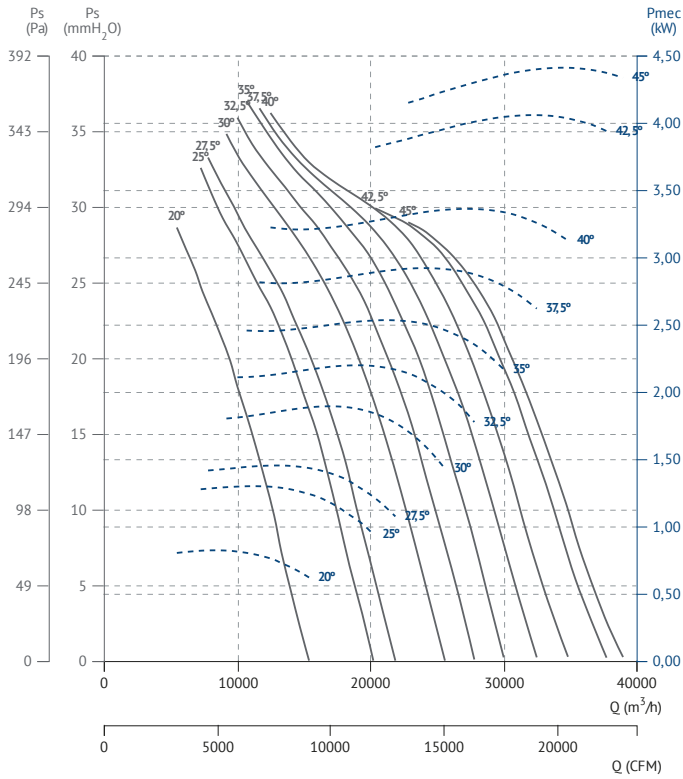
**BOX HB 71 T6 (A2:6)**



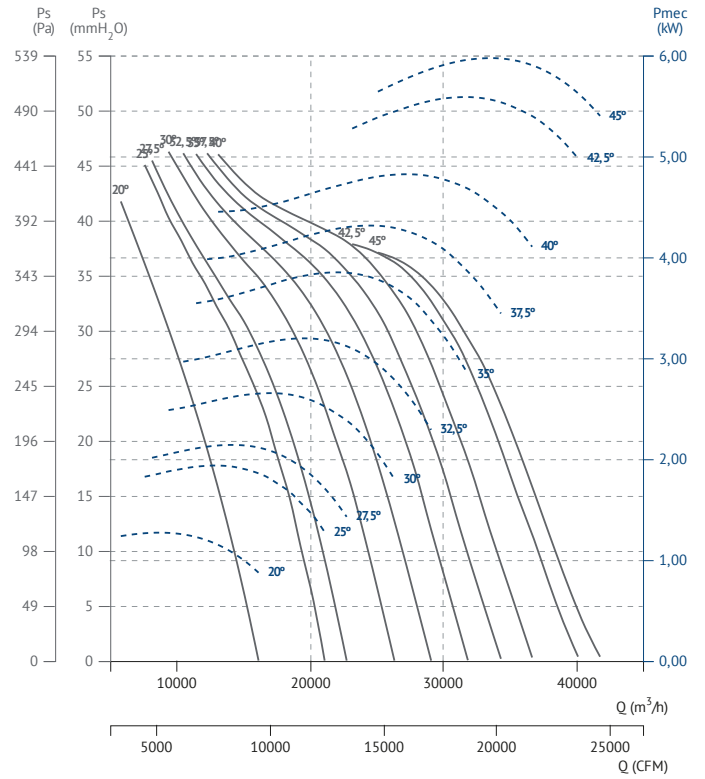




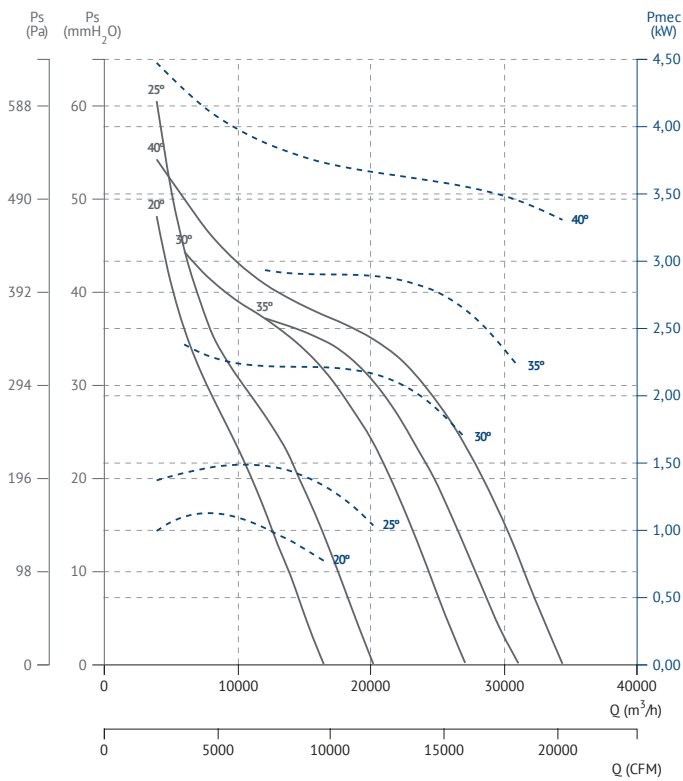
**BOX HB 80 T4 (A2:6)**



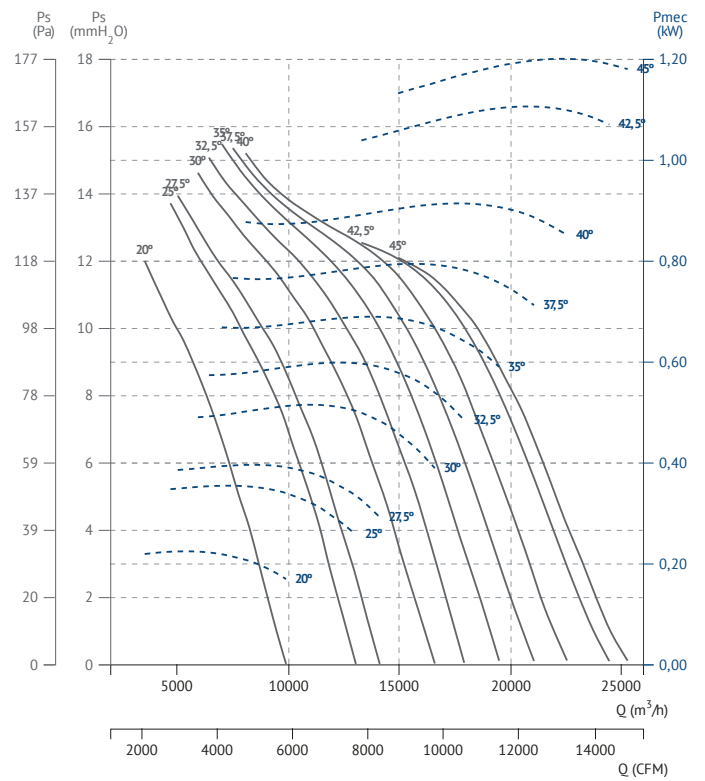
**BOX HB 80 T4 (A2:9)**



**BOX HB 80 T4 (A5:6)**



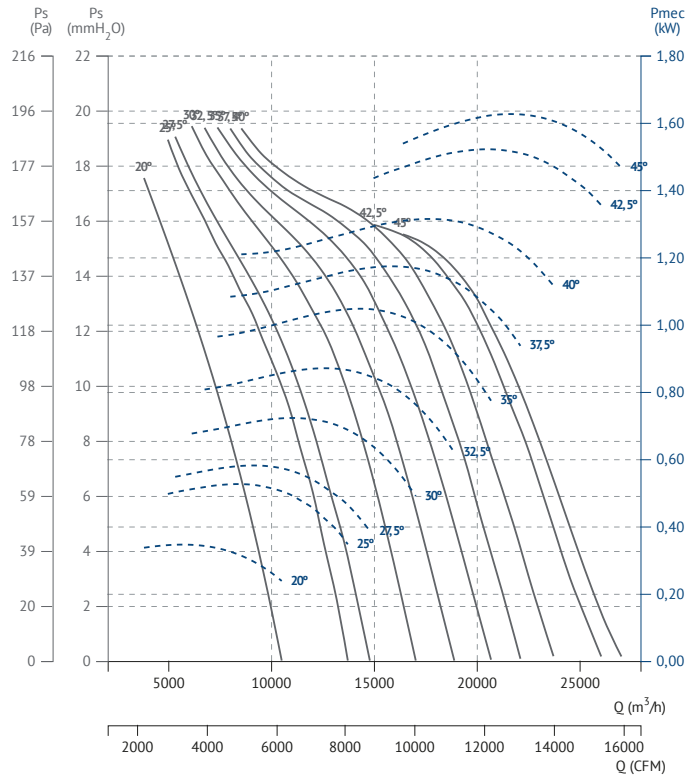
**BOX HB 80 T6 (A2:6)**



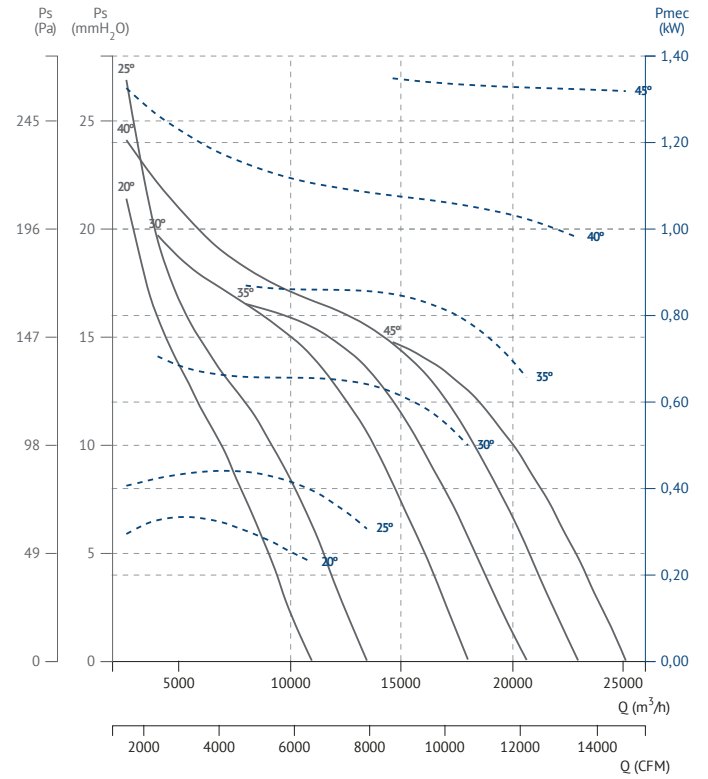
Cajas de ventilación inline



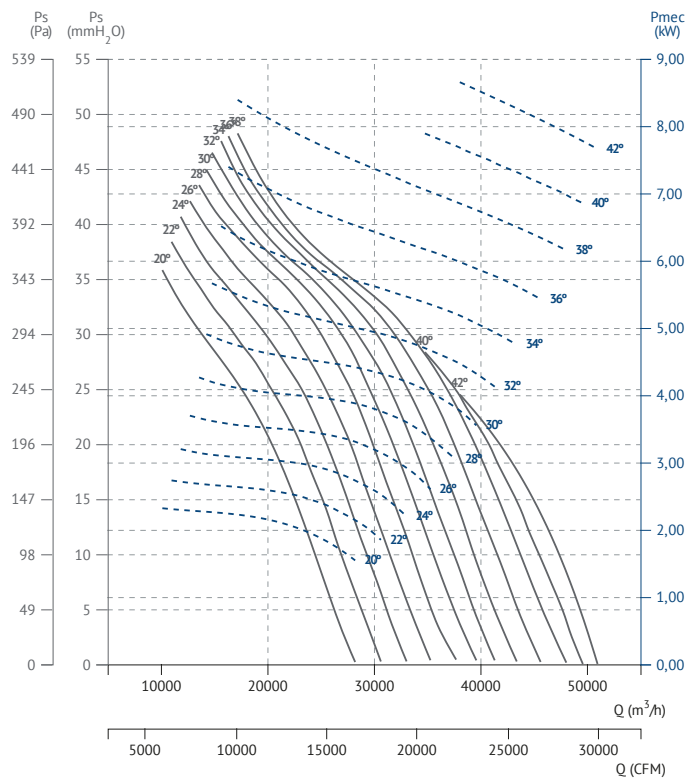
**BOX HB 80 T6 (A2:9)**



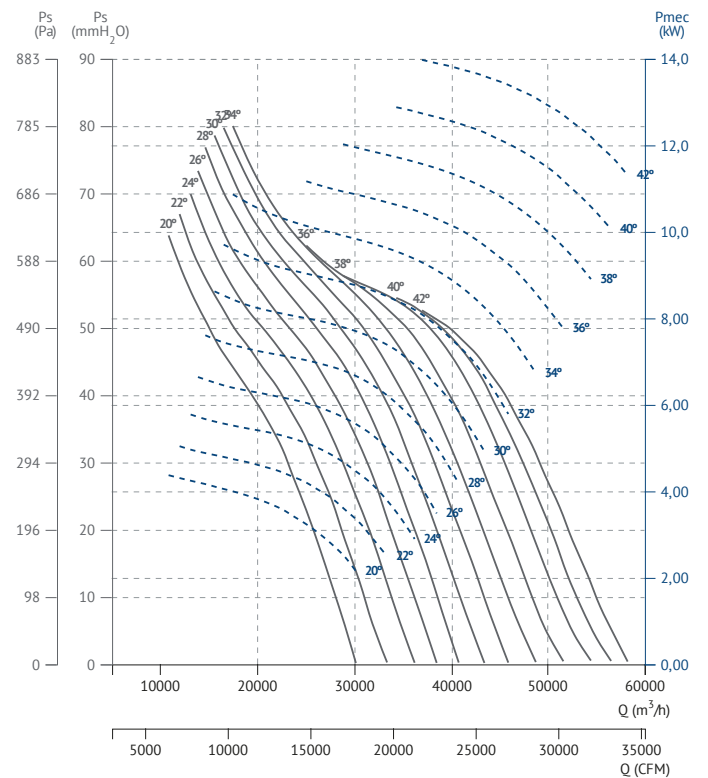
**BOX HB 80 T6 (A5:6)**



**BOX HB 90 T4 (A6:3)**

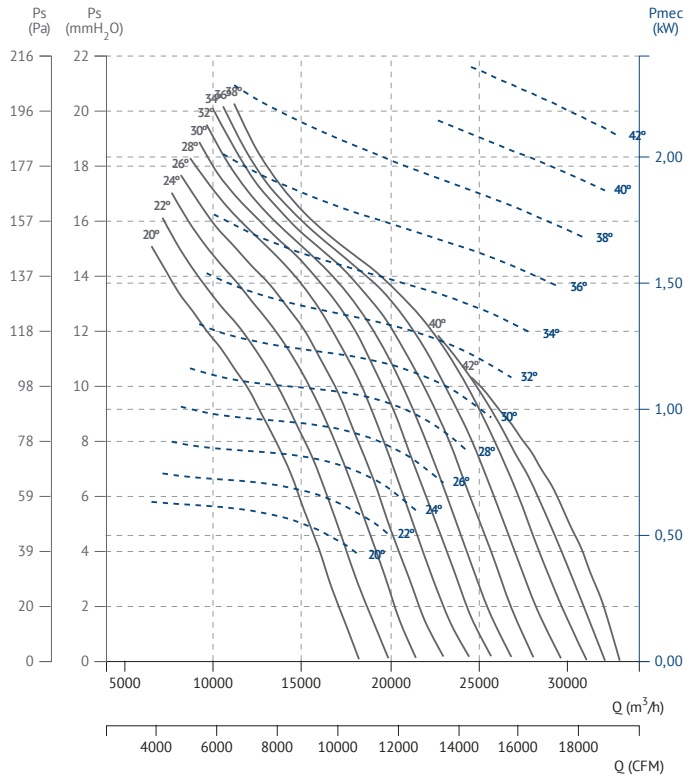


**BOX HB 90 T4 (A6:6)**

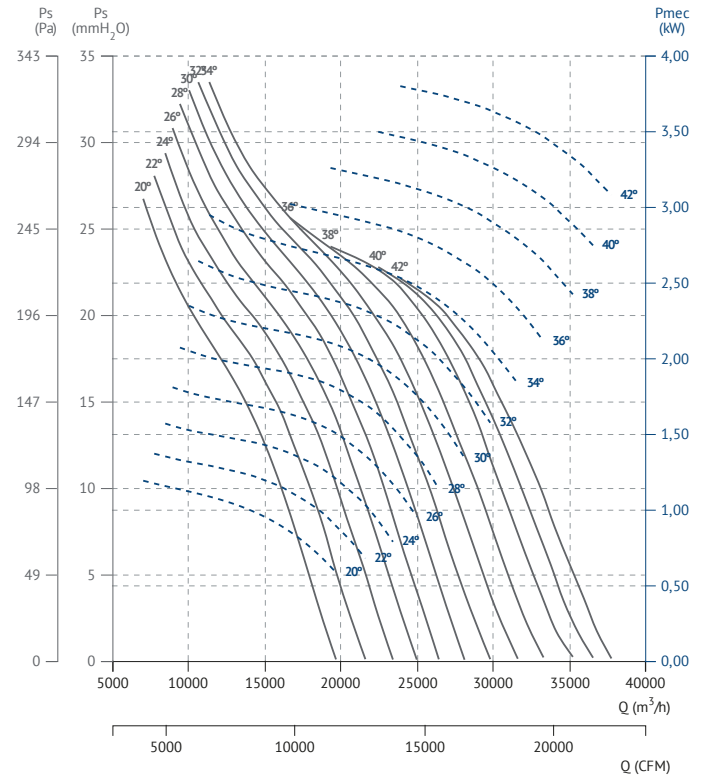




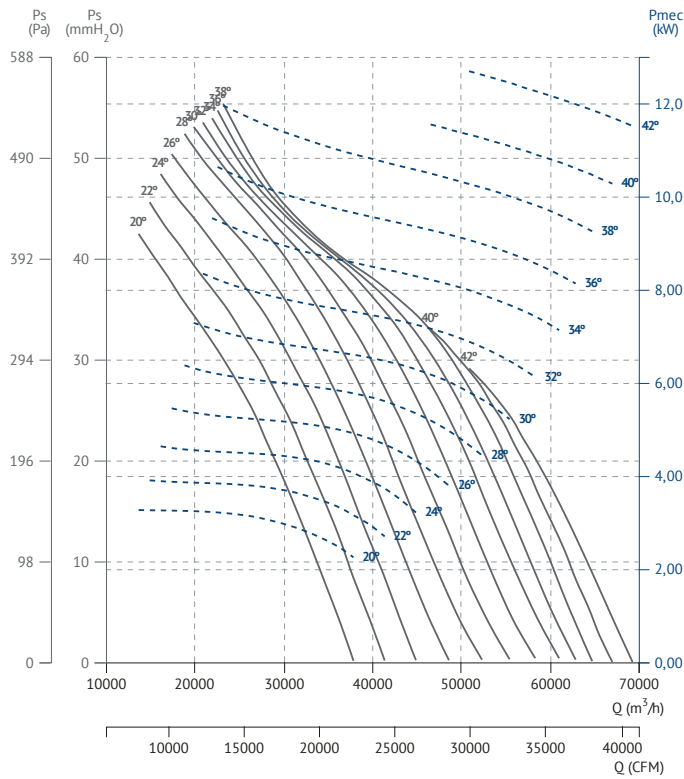
**BOX HB 90 T6 (A6:3)**



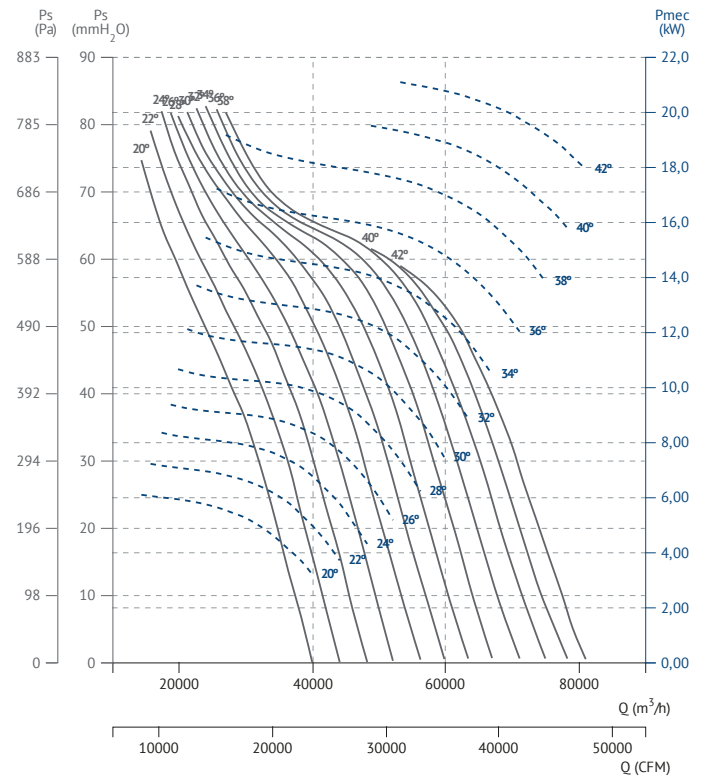
**BOX HB 90 T6 (A6:6)**



**BOX HB 100 T4 (A6:3)**



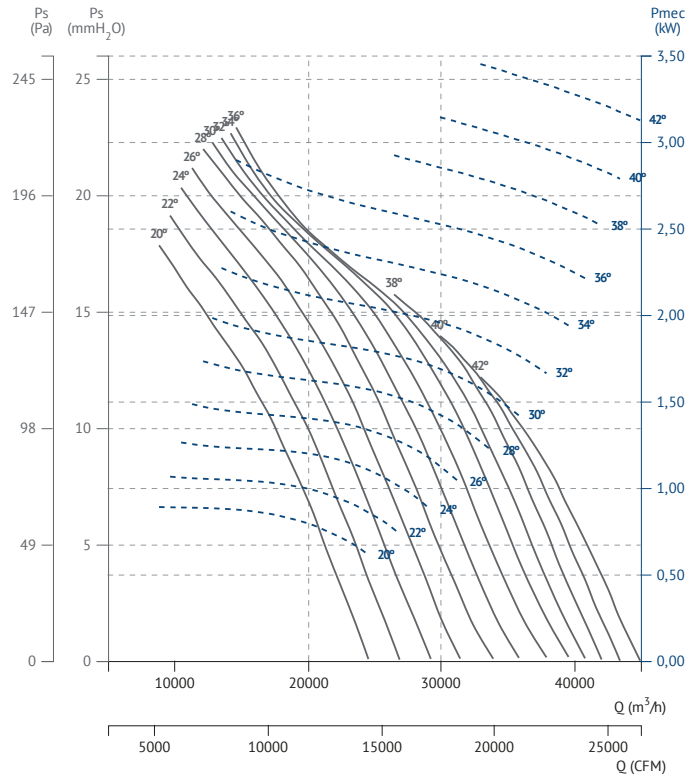
**BOX HB 100 T4 (A6:6)**



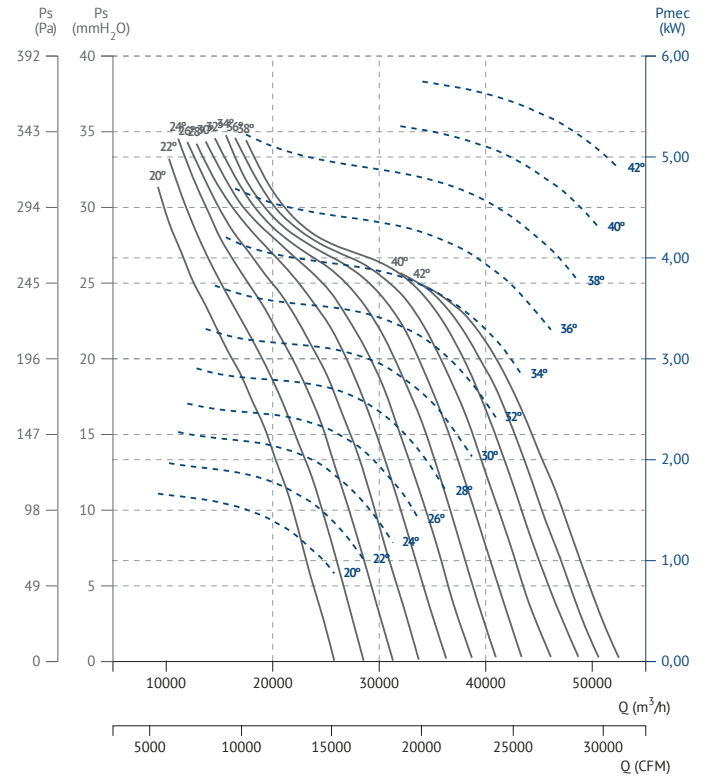
Cajas de ventilación inline



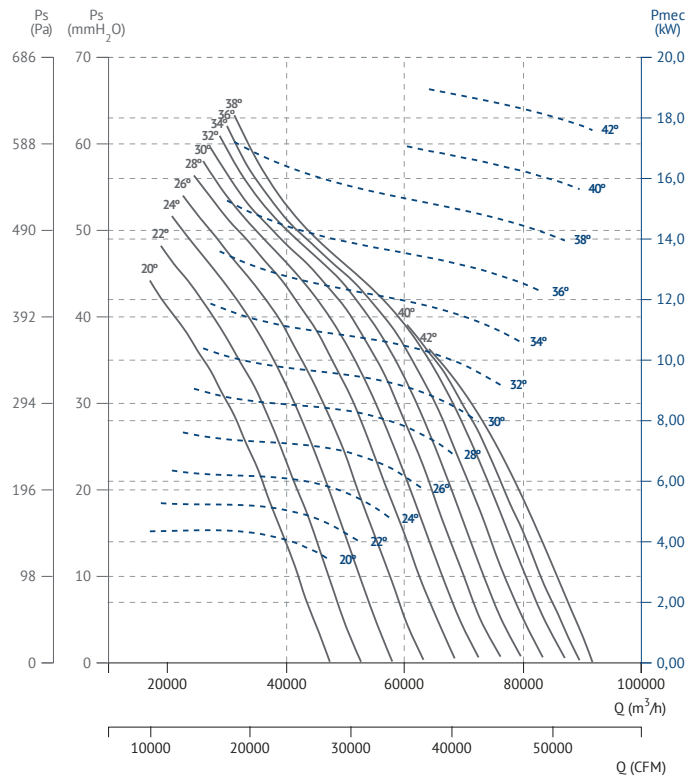
**BOX HB 100 T6 (A6:3)**



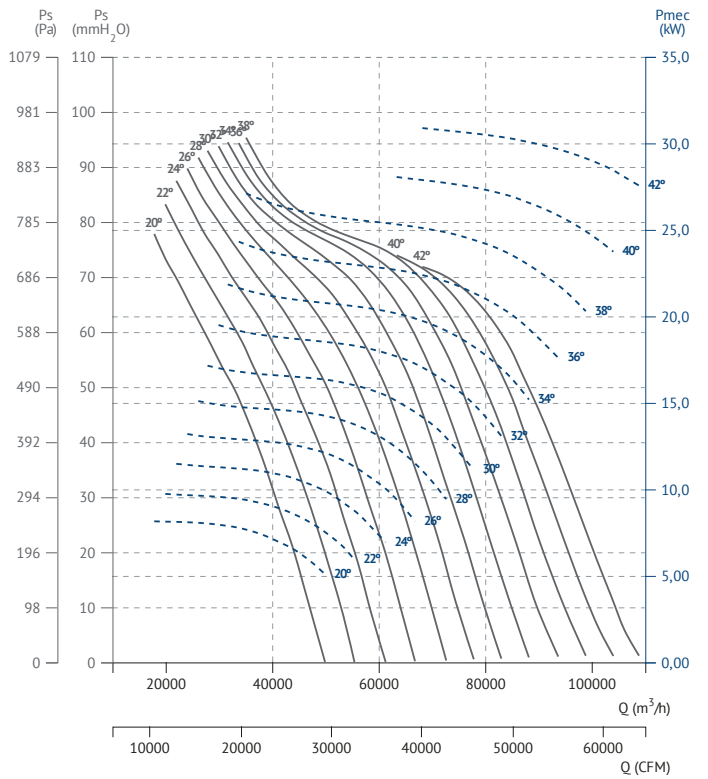
**BOX HB 100 T6 (A6:6)**



**BOX HB 112 T4 (A6:3)**

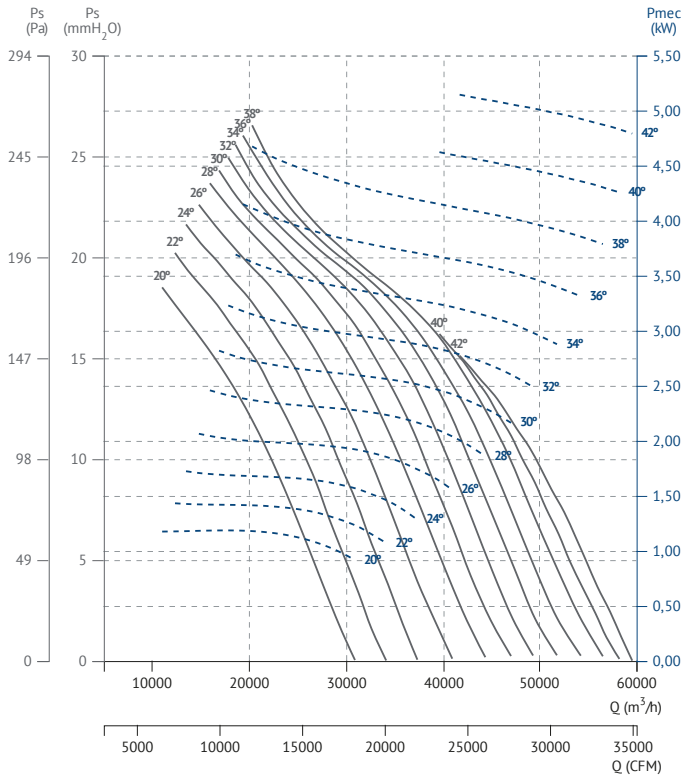


**BOX HB 112 T4 (A6:6)**

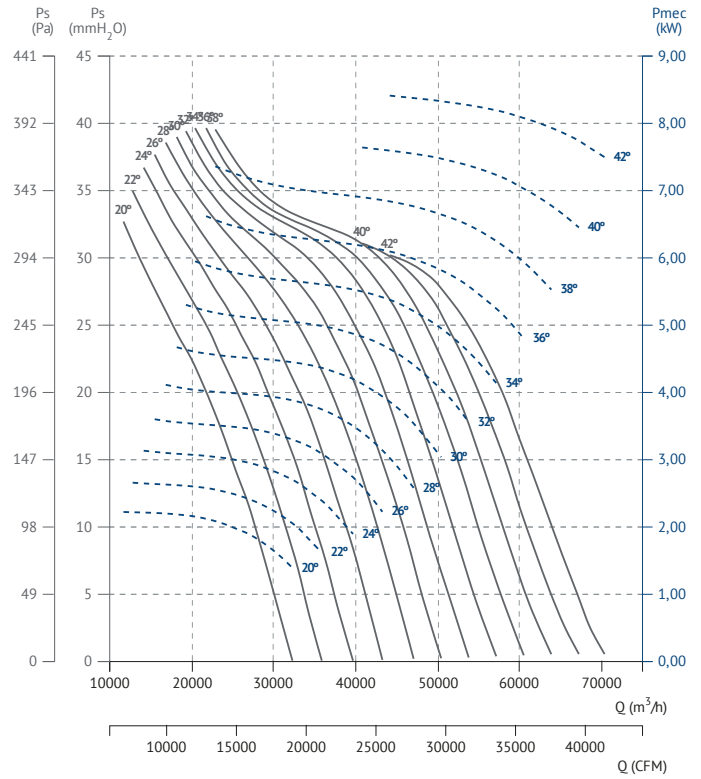




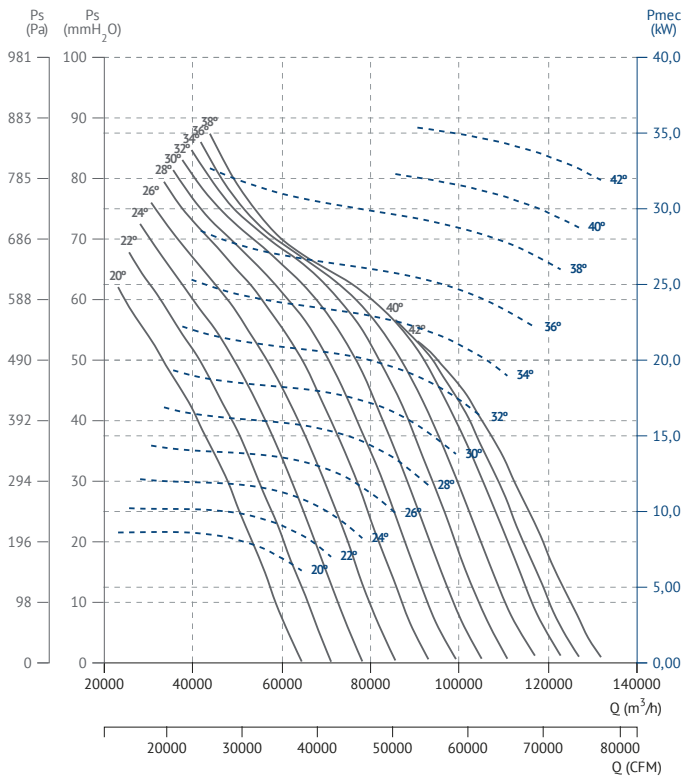
**BOX HB 112 T6 (A6:3)**



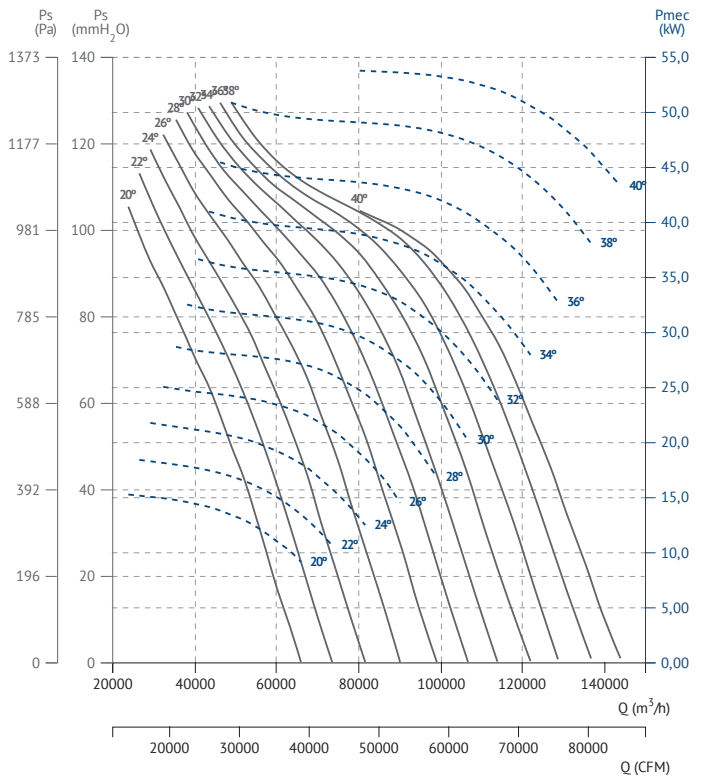
**BOX HB 112 T6 (A6:6)**



**BOX HB 125 T4 (A7:4)**

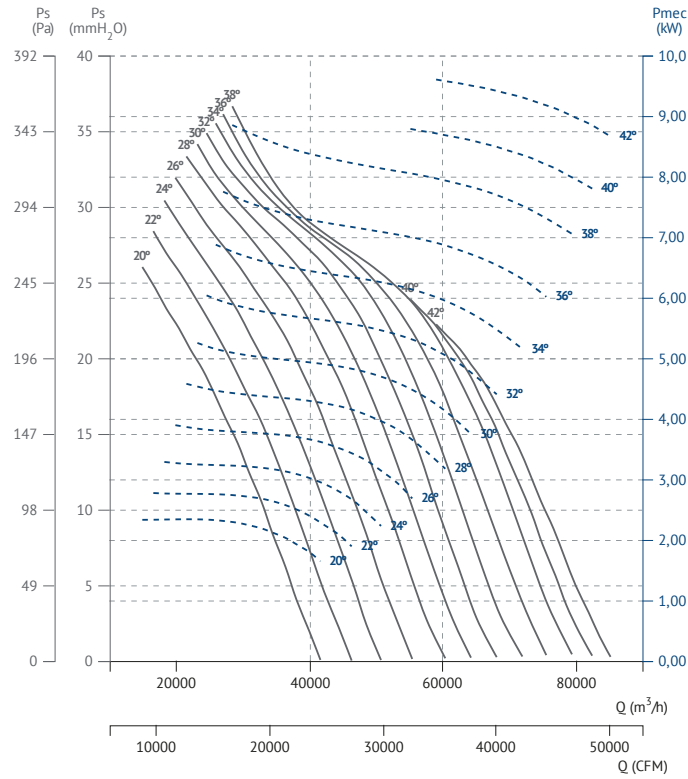


**BOX HB 125 T4 (A7:8)**





**BOX HB 125 T6 (A7:4)**



**BOX HB 125 T6 (A7:8)**

