HBX

ATEX wall plate axial
Helicoidal mural ATEX

+ info 60 Hz
exempt ErP

MANUFACTURING FEATURES

- Plate axial fan, circular reinforced frame.
- Motor-impeller assembly through a modular system.
- Cast aluminium impeller.
- Protected against corrosion by powder coating of polyester resin.
- ATEX standard asynchronous motor. ATEX certified: II2G Ex d, Ex e / II3G Ex nA. Standard voltages 230/400V 50Hz for three phase motors up to 4kW and 400/690V 50Hz. IP55 protection.

APPLICATIONS

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

- Maximum continuous working temperature: 50ºC.

UNDER REQUEST

- B form impeller (air flow from impeller to motor).
- 100% reversible impeller.

CARACTERÍSTICAS CONSTRUCTIVAS

- Ventilador helicoidal de marco redondo reforzado con nervio intermedio.
- Montaje modular del conjunto motor hélice que permite una total versatilidad en caso de cualquier cambio.
- Hélice en fundición de aluminio.
- Protegidos contra la corrosión mediante recubrimiento en polvo de resina de poliéster.
- Motor asíncrono normalizado.Certificación ATEX: II2G Ex d, Ex e / II3G Ex nA. Voltajes estándar 230/400-460V para motores trifásicos hasta 4kW y 400-460/690V 50Hz para potencias superiores. Protección IP55.

APLICACIONES

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

- Temperatura máxima de trabajo en continuo: 50ºC.

BAJO DEMANDA

- Hélice impelente (sentido de aire hélice motor).
- Hélice reversible 100%.

ATEX OPTIONS UNDER REQUEST | OPCIONES ATEX BAJO DEMANDA

Three-phase MOTOR explosion-proof under the ATEX 2014/34/EU Directive for working temperatures from -20ºC to +40ºC.
MOTORES trifásicos antiexplosivos bajo Directiva ATEX 2014/34/UE para temperaturas de trabajo de -20ºC a +40ºC.

- ATEX Explosion-proof for GAS | ATEX Antideflagrantes para GAS
  Ex II2G Ex d IIB T4 IP66
  Ex II2G Ex d IIC T4 IP66 (OPTIONAL PTC PROBE | SONDA PTC OPCIONAL)
  Ex II2G Ex d IIC T5 IP66
- ATEX Increased security for GAS | ATEX Seguridad aumentada para GAS:
  Ex II2G Ex e T3 IP55
- ATEX Protection "n" for GAS | ATEX Protección "n" para GAS:
  Ex II3G Ex nA IIC T4 Gc
- ATEX Protection "n" for GAS and NON-CONDUCTIVE DUST | ATEX Protección "n" para GAS y POLVO NO CONDUCTOR:
  Ex II3GD Ex nA IIC T4 Gc Ex-tc IIIB T125º IP55 ZONA 22
- ATEX Explosion-proof for GAS and DUST | ATEX Antideflagrantes para GAS y POLVO:
  Ex II2GD Ex d IIC T4 IP66
  Ex II2GD Ex d IIC T5 IP66
- ATEX Increased security for DUST | ATEX Seguridad aumentada para POLVO:
  Ex II3D Ex e Dc
- ATEX Protection by enclosure for DRIVER DUST | ATEX Protección por recinto para POLVO CONDUCTOR:
  Ex II3D Ec-tc IIIC T125º Dc IP55 ZONA 22

To carry out the selection of an ATEX fan, please use the curves that you will find in the Fanware by Casals selection software. The electrical data of these ATEX models can be modified.
Para llevar a cabo la selección de un ventilador ATEX, por favor use las curvas que encontrará en el programa de selección Fanware by Casals. Los datos eléctricos de estos Modelos ATEX pueden verse modificados.

ACCESSORIES / accesorios

INT
Interruptor de corte
Safety switch

SFC
Variador de velocidad frecuencial
Frecuency speed controller

RP1
Rejilla protección aspiración
Inlet protection guard

MC HB
Marco soporte cuadrado para HB
Square mounting frame for HB

BA-400
Brida antivibratoria 400ºC/2h
Flexible flange 400ºC/2H

RP0
Rejilla de protección aspiración-impulsión
Outlet protection guard

INT ATEX
Interruptor para funcionar en entonos ATEX
Switch for ATEX environments

AC
Brida de connexión
Conection flange

PC2
Persiana sobre presión en aluminio
Aluminium overpressure damper

BAD
Brida antivibratoria circular-circular
Coupling flange

JE 45
Junta elástica
Flexible joint

THREE PHASE RANGE / serie trifásica

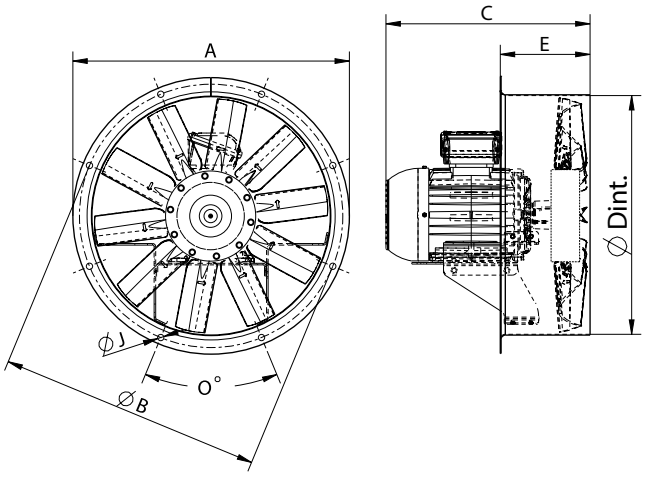
4 POLE / 4 polos

Model	R.P.M.	Rated I (A) 400V	Rated Power kW	Air flow m³/h	Sound dB (A)	Weight Kg	Connection diagram
HBX 45 T4 (A0:6)	35º - 40º	0,25	0,25	6.360	52	14,3	1
HBX 45 T4 (A5:6)	25º - 45º	0,25	0,55	6.350	51	16,6	1
HBX 50 T4 (A0:6)	35º - 40º	0,37	0,37	8.140	53	18,9	1
HBX 50 T4 (A5:6)	25º - 45º	0,25	0,75	8.130	54	21,3	1
HBX 56 T4 (A5:6)	20º - 45º	0,37	2,2	14.640	70	24,3	1
HBX 63 T4 (A5:6)	20º - 45º	0,37	3	20.350	74	28,7	1
HBX 71 T4 (A5:6)	20º - 45º	0,75	4	27.520	79	33,2	1
HBX 80 T4 (A5:6)	20º - 40º	1,1	4	34.500	71	39,4	1
HBX 90 T4 (A6:3)	20º - 42º	3	15	51.110	75	59,7	1
HBX 90 T4 (A6:6)	20º - 42º	3	15	58.310	76	65,1	1
HBX 100 T4 (A6:3)	20º - 42º	5,5	15	69.410	76	73,2	1
HBX 100 T4 (A6:6)	20º - 42º	5,5	15	81.210	80	79,3	1
HBX 112 T4 (A6:3)	20º - 42º	5,5	15	92.110	78	83	1
HBX 112 T4 (A6:6)	20º - 42º	5,5	15	109.010	83	89,7	1
HBX 125 T4 (A7:4)	20º - 42º	7,5	15	132.010	85	98,6	1
HBX 125 T4 (A7:8)	20º - 42º	11	15	143.500	89	107,7	1

6 POLE / 6 polos

Model	R.P.M.	Rated I (A) 400V	Rated Power kW	Air flow m³/h	Sound dB (A)	Weight Kg	Connection diagram
HBX 45 T6 (A0:6)	35º - 40º	0,25	0,25	4.120	42	14,3	1
HBX 45 T6 (A5:6)	25º - 45º	0,25	0,25	4.110	42	16,6	1
HBX 50 T6 (A0:6)	35º - 40º	0,25	0,25	5.280	44	18,9	1
HBX 50 T6 (A5:6)	25º - 45º	0,25	0,25	5.270	45	21,3	1
HBX 56 T6 (A5:6)	20º - 45º	0,25	0,55	9.760	67	24,3	1
HBX 63 T6 (A5:6)	20º - 45º	0,25	0,75	13.570	71	28,7	1
HBX 71 T6 (A5:6)	20º - 45º	0,25	1,1	18.350	76	33,2	1
HBX 80 T6 (A5:6)	20º - 45º	0,37	2,2	25.200	72	39,4	1
HBX 90 T6 (A6:3)	20º - 42º	0,75	4	33.110	65	59,7	1
HBX 90 T6 (A6:6)	20º - 42º	0,75	4	37.810	66	65,1	1
HBX 100 T6 (A6:3)	20º - 42º	1,1	7,5	45.010	66	73,2	1
HBX 100 T6 (A6:6)	20º - 42º	1,1	7,5	52.610	70	79,3	1
HBX 112 T6 (A6:3)	20º - 42º	1,5	11	59.710	69	83	1
HBX 112 T6 (A6:6)	20º - 42º	1,5	11	70.510	73	89,7	1
HBX 125 T6 (A7:4)	20º - 42º	2,2	11	85.410	76	98,6	1
HBX 125 T6 (A7:8)	20º - 42º	3	11	98.110	80	107,7	1

DIMENSIONS / dimensiones



MODEL	ØA	ØB	ØD	E	ØI	O
HBX 45	525	500	452	170	12	8x45º
HBX 50	600	560	504	170	12	12x30º
HBX 56	646	620	559	175	12	12x30º
HBX 63	725	690	633	185	12	12x30º
HBX 71	802	770	715	190	12	16x22,5º
HBX 80	892	860	801	220	12	16x22,5º

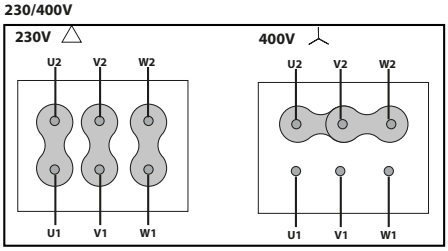
C' max. Aprox. (Consult motor size table / Consultar tabla tamaño constructivo motor)															
MODEL	63	71	80	90S	90L	100L	112M	132S	132M	160M	160L	180M	180L	200	225
HBX 40	-	301	335	352	377	-									
HBX 45	328	328	347	362	387	418	-	-	-	-	-	-	-	-	-
HBX 50	-	338	350	362	387	421	-	-	-	-	-	-	-	-	-
HBX 56	-	338	352	362	387	423	-	-	-	-	-	-	-	-	-
HBX 63	-	-	352	386	411	442	-	-	-	-	-	-	-	-	-
HBX 71	-	-	357	391	416	447	463	-	-	-	-	-	-	-	-
HBX 80	-	-	-	427	427	463	468	-	-	-	-	-	-	-	-

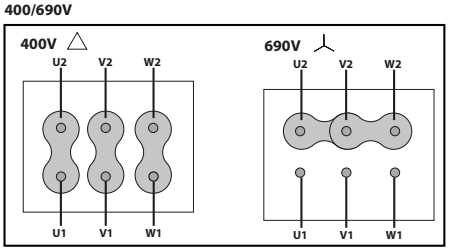
MOTOR SIZE DEPENDING ON POWER (1 SPEED) / TAMAÑOS CONSTRUCTIVOS DE MOTORES SEGÚN POTENCIA (1 VELOCIDAD)

Kw																				
	0,075	0,09	0,12	0,18	0,25	0,37	0,55	0,75	1,1	1,5	2,2	3	4	5,5	7,5	11	15	18,5	22
T2 (3000rpm)	-	56	56	63	63	71	71	80	80	90S	90L	100L	112M	132S	132S	160M	160M	160L	180M
T4 (1500rpm)	56	56	63	63	71	71	80	80	90S	90L	100L	100L	112M	132S	132M	160M	160L	180M	180L
T6 (1000rpm)	-	63	-	71	71	80	80	90S	90L	100L	112M	132S	132M	132M	160M	160L	180L	200L	200L

CONNECTION DIAGRAMS / esquema de conexiones

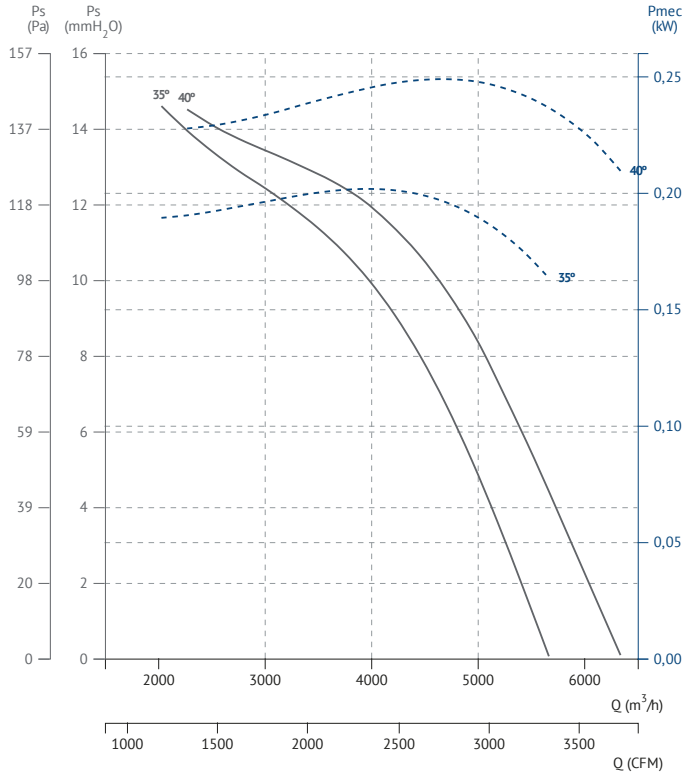
❶ **THREE PHASE MOTORS 1 SPEED** / motores trifásicos 1 velocidad



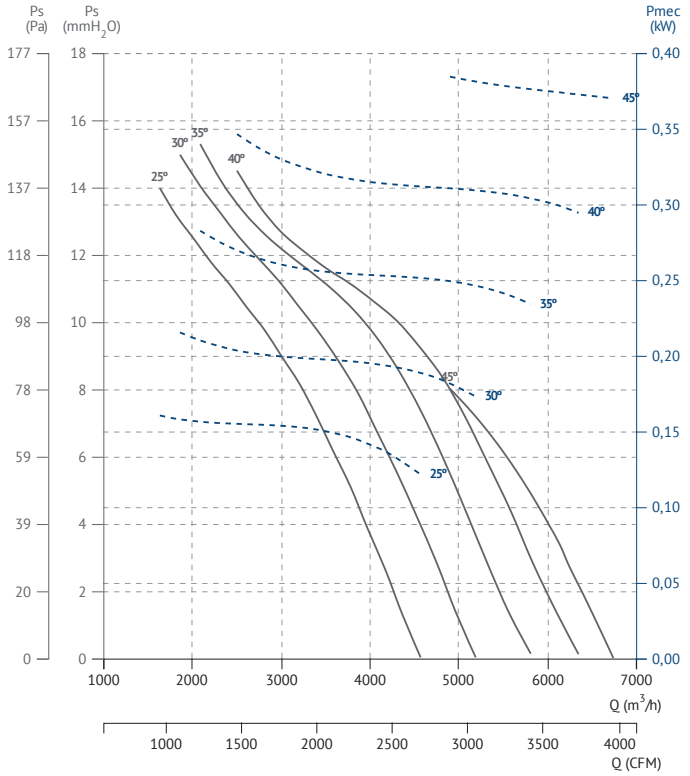


CHARACTERISTIC CURVES / curvas características

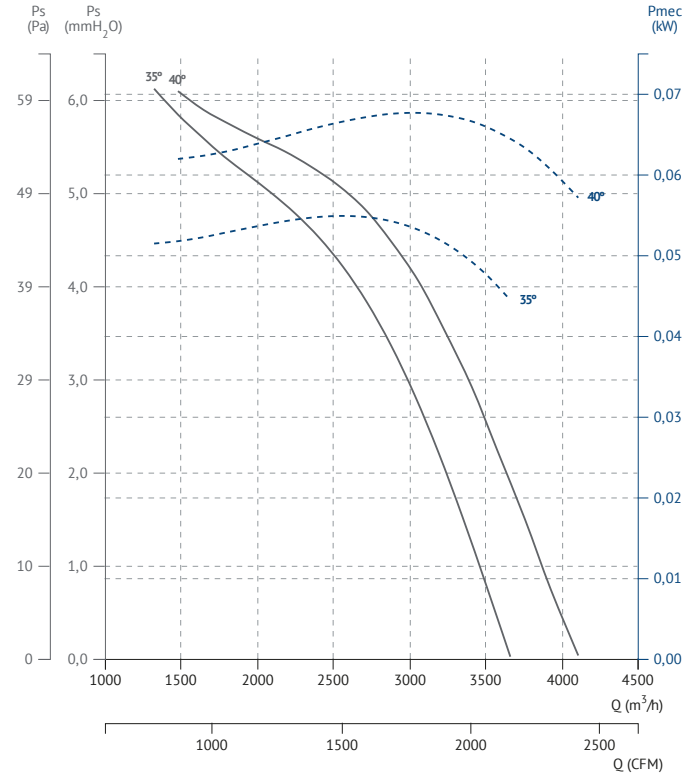
HBX 45 T4 (A0:6)



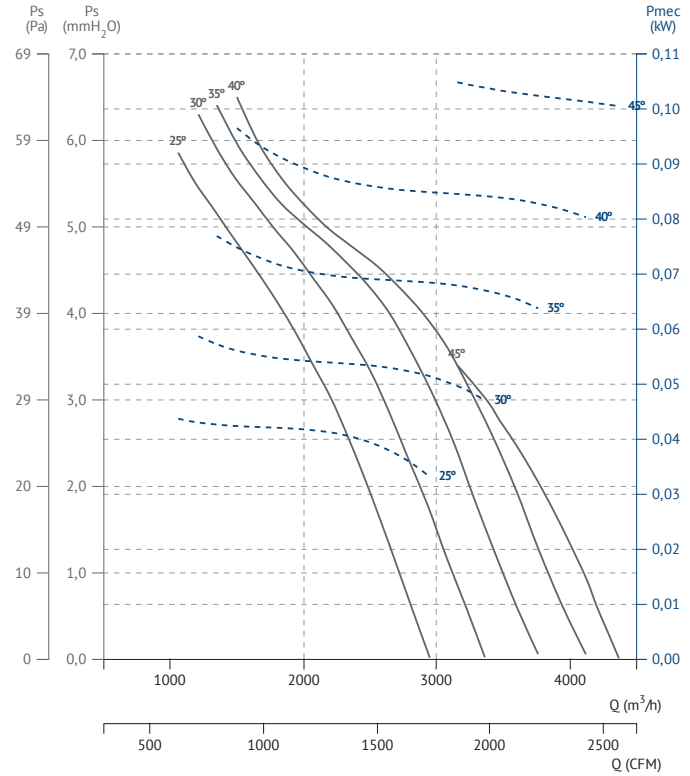
HBX 45 T4 (A5:6)



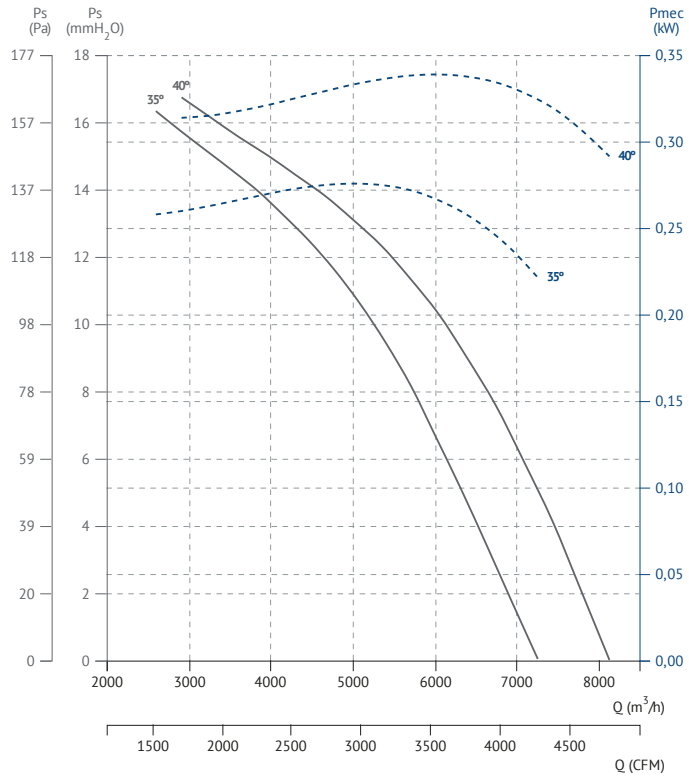
HBX 45 T6 (A0:6)



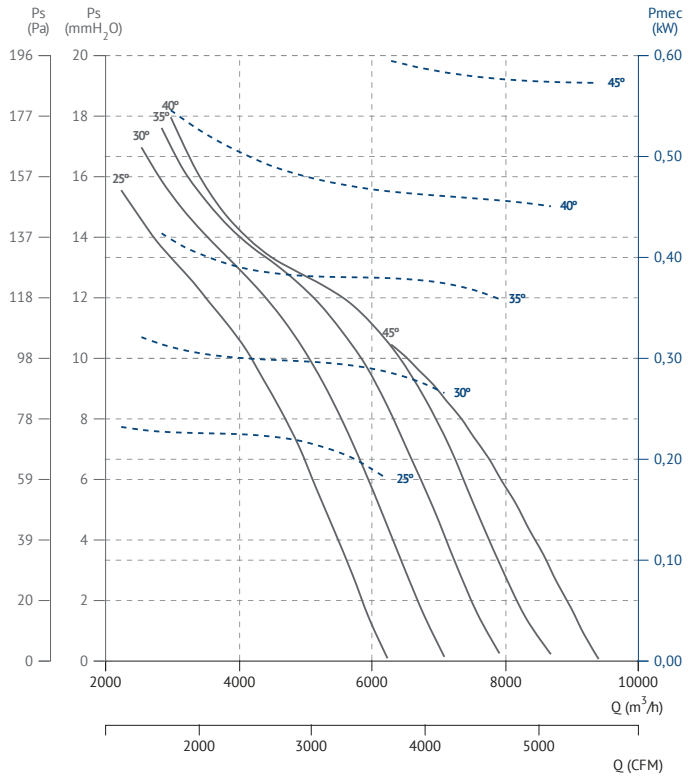
HBX 45 T6 (A5:6)



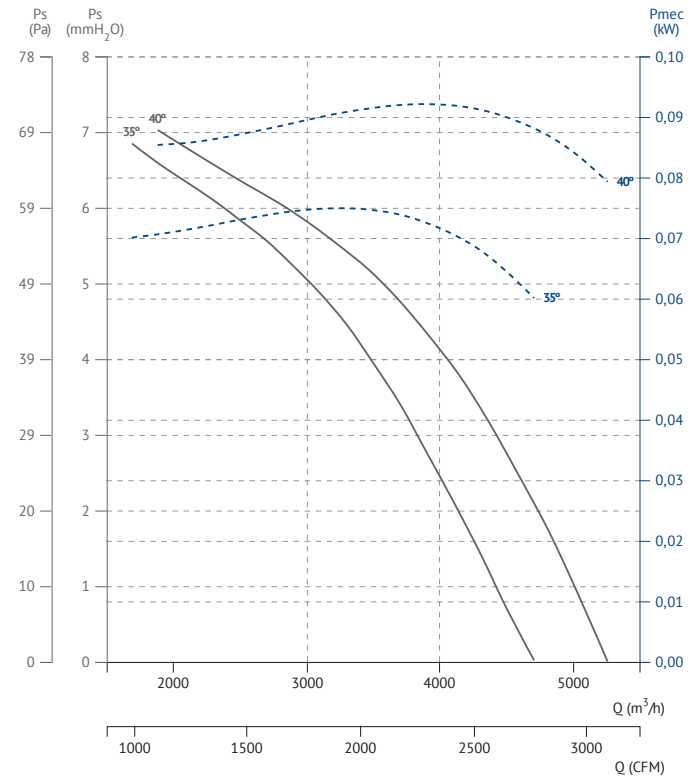
HBX 50 T4 (A0:6)



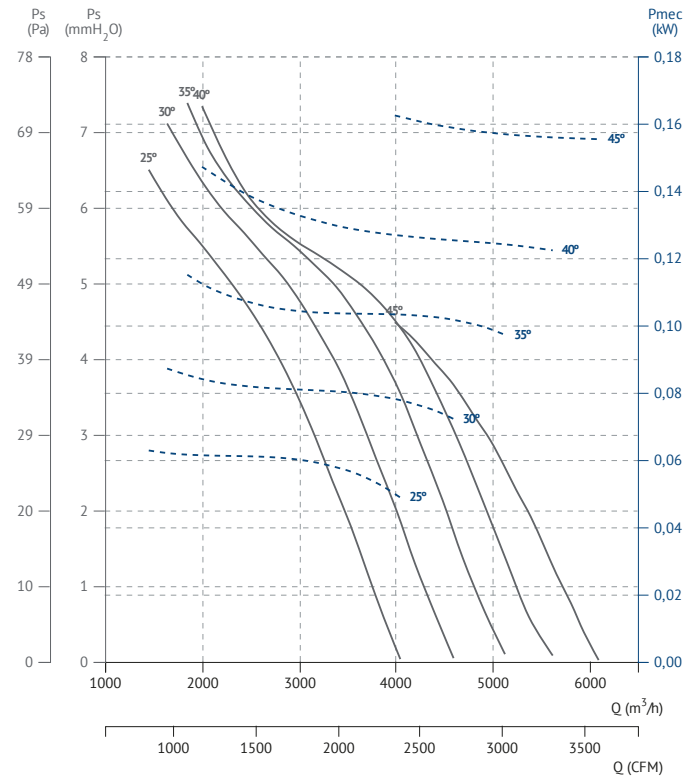
HBX 50 T4 (A5:6)



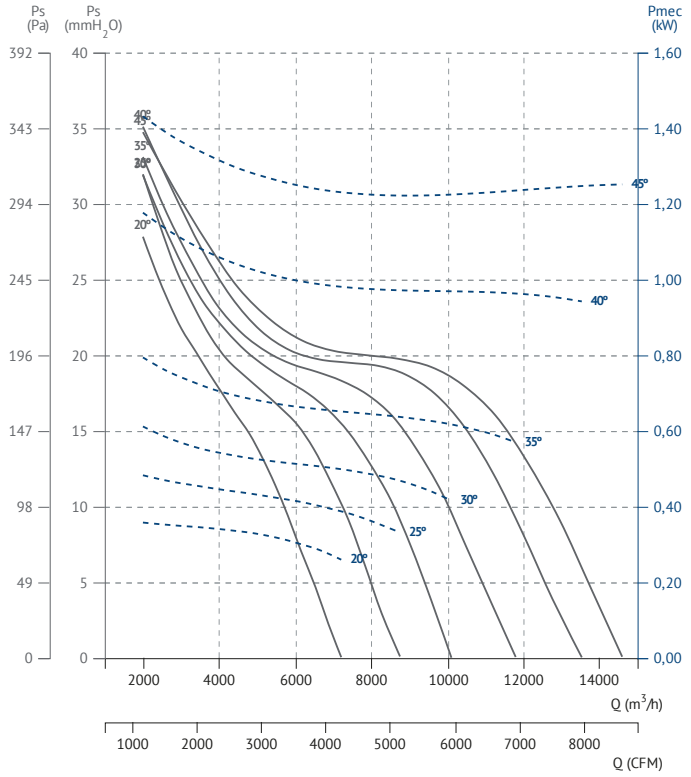
HBX 50 T6 (A0:6)



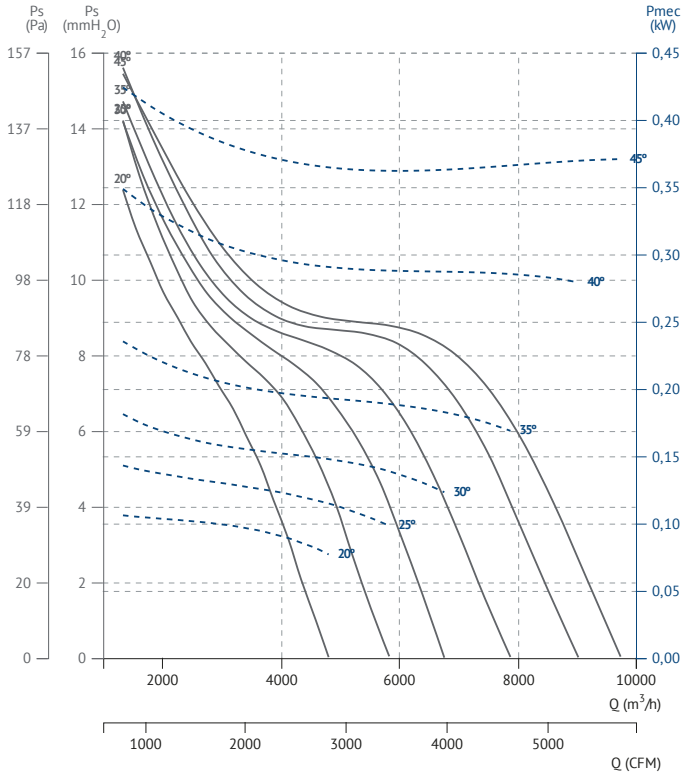
HBX 50 T6 (A5:6)



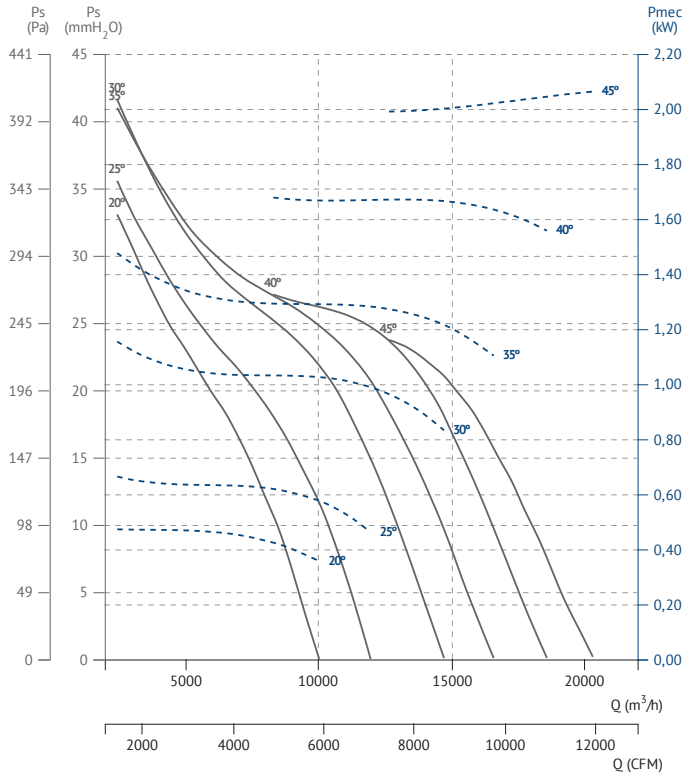
HBX 56 T4 (A5:6)



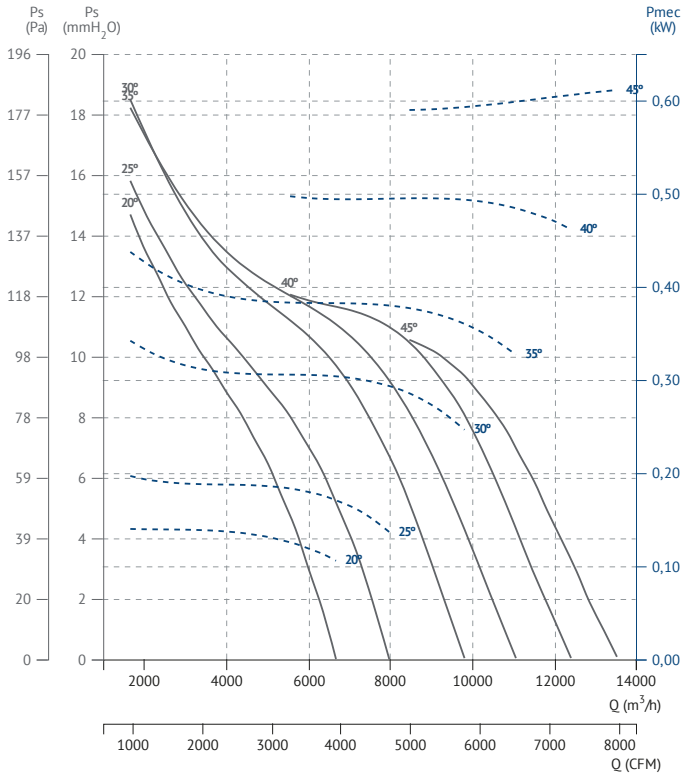
HBX 56 T6 (A5:6)



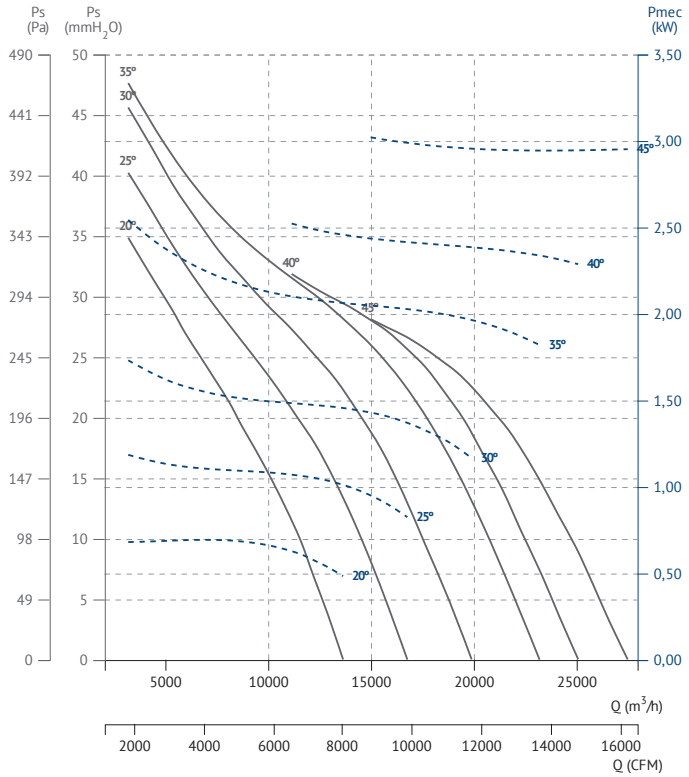
HBX 63 T4 (A5:6)



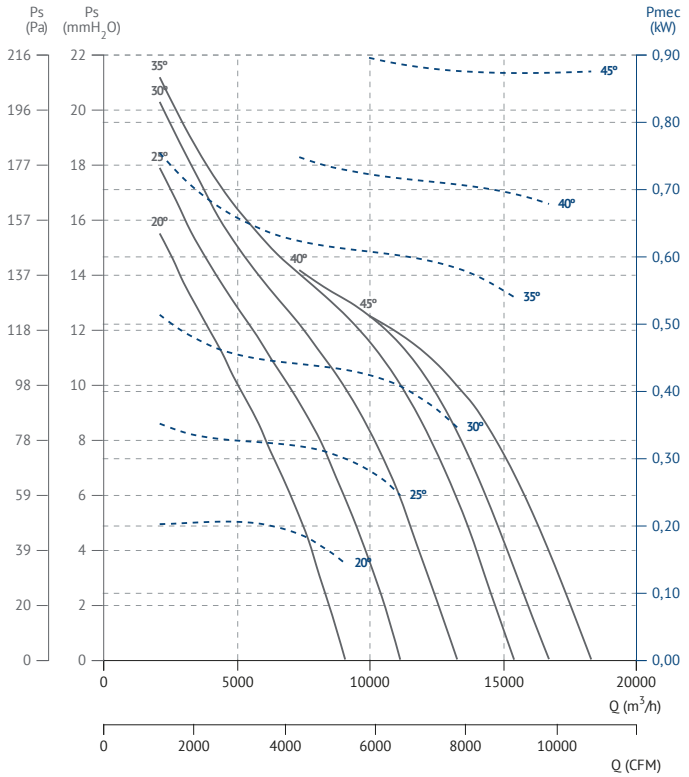
HBX 63 T6 (A5:6)



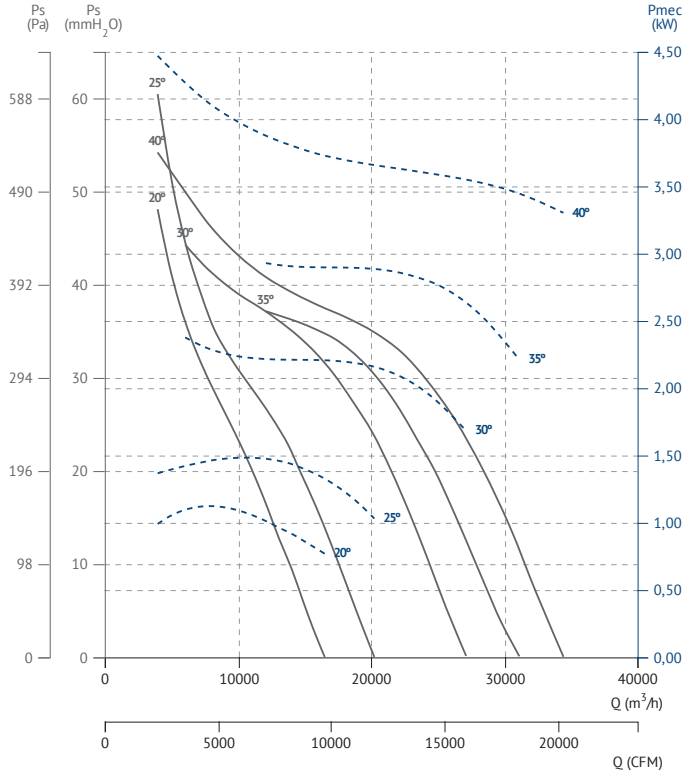
HBX 71 T4 (A5:6)



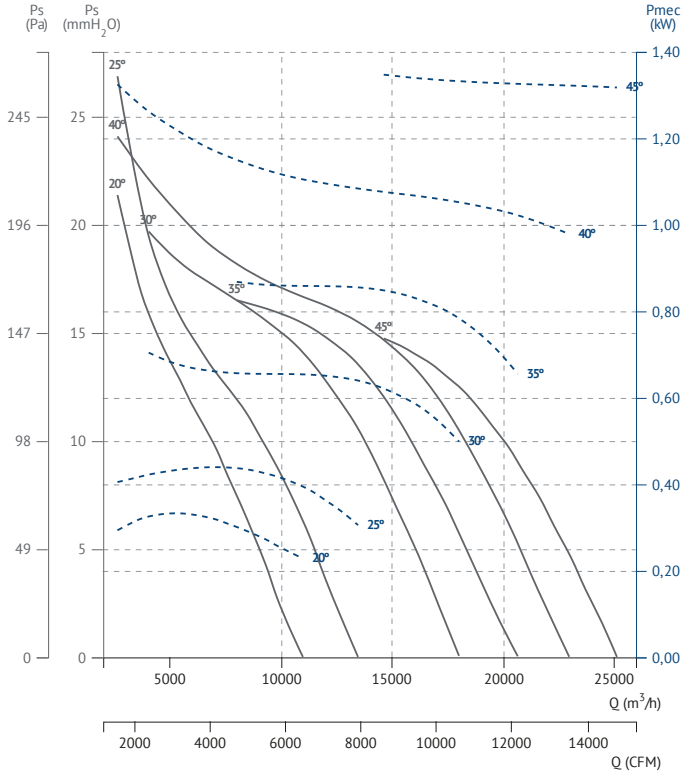
HBX 71 T6 (A5:6)



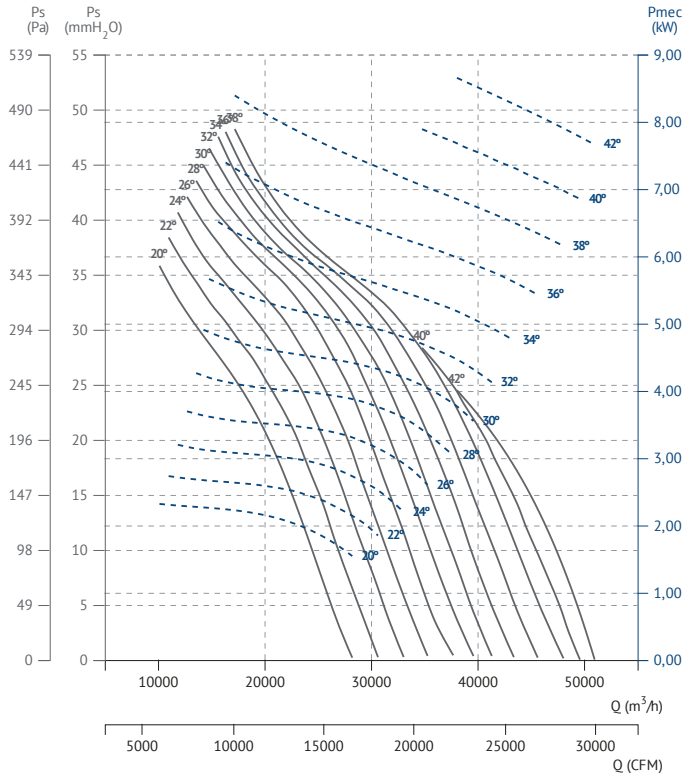
HBX 80 T4 (A5:6)



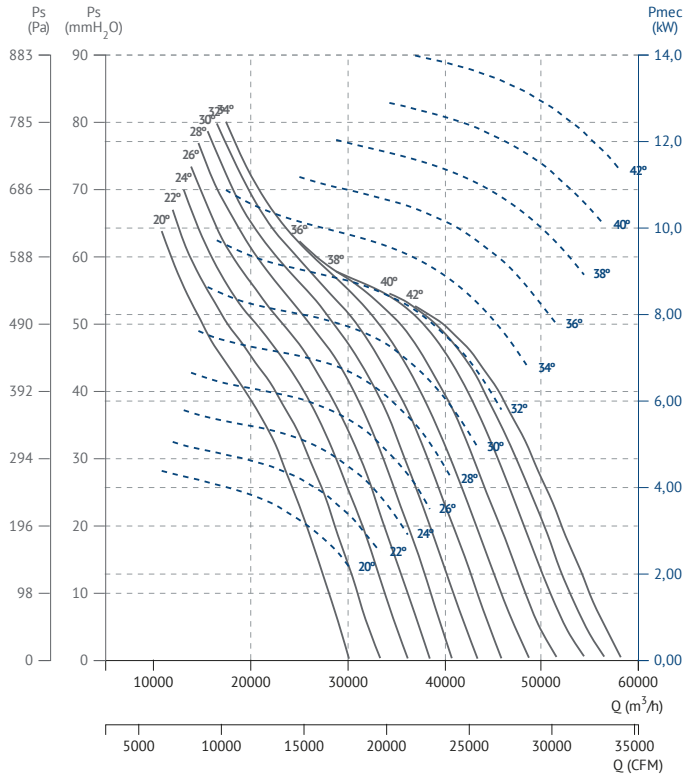
HBX 80 T6 (A5:6)



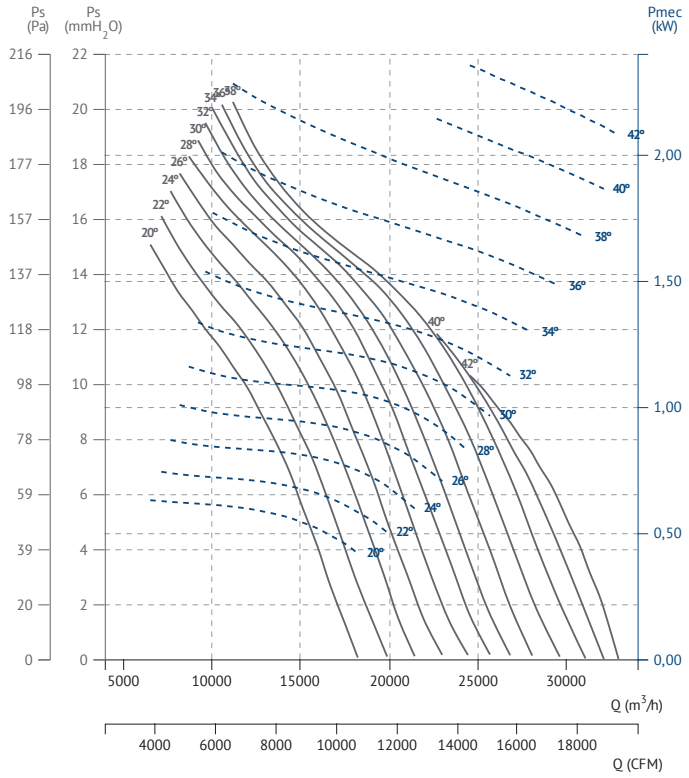
HBX 90 T4 (A6:3)



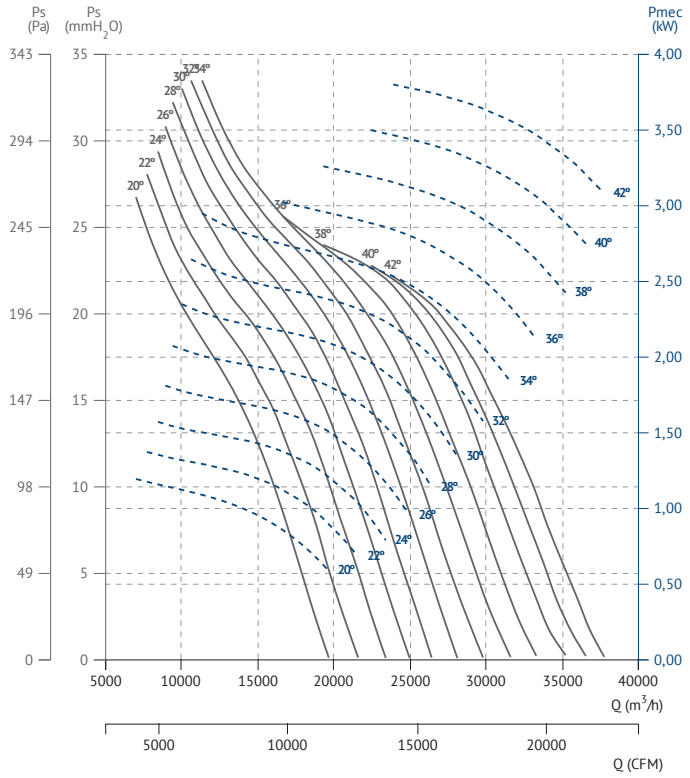
HBX 90 T4 (A6:6)



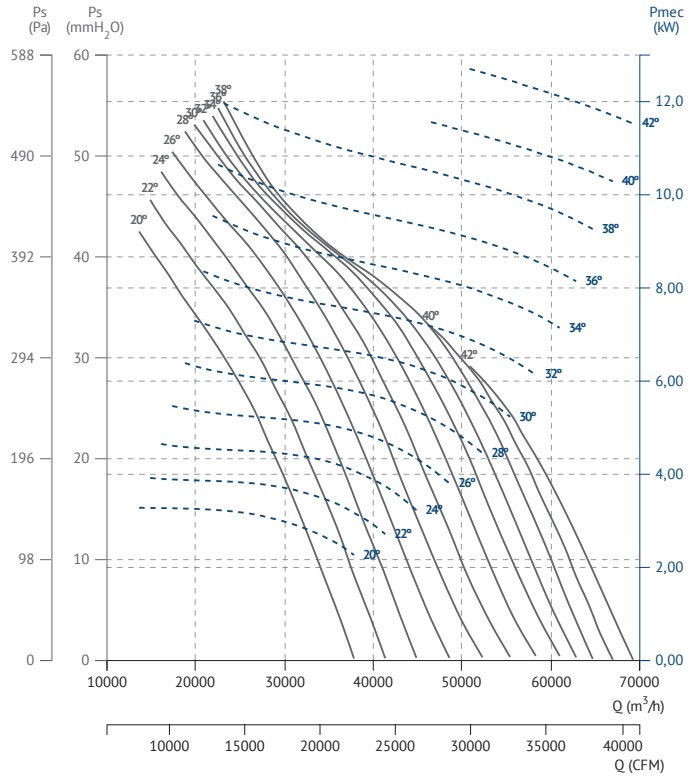
HBX 90 T6 (A6:3)



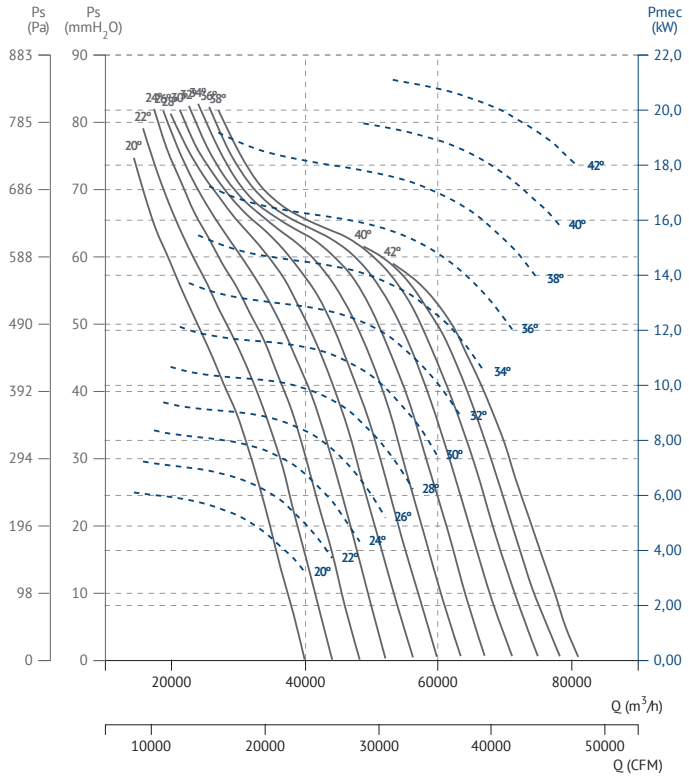
HBX 90 T6 (A6:6)



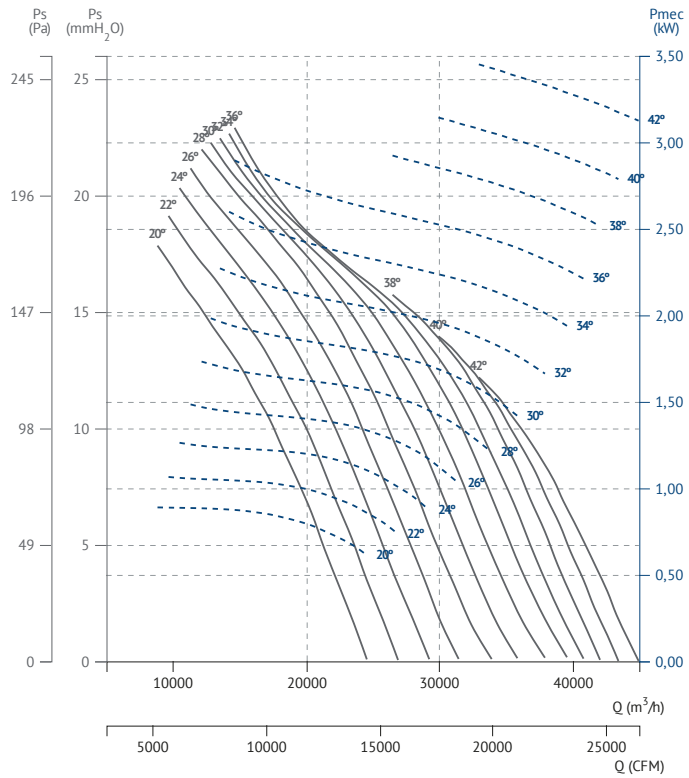
HBX 100 T4 (A6:3)



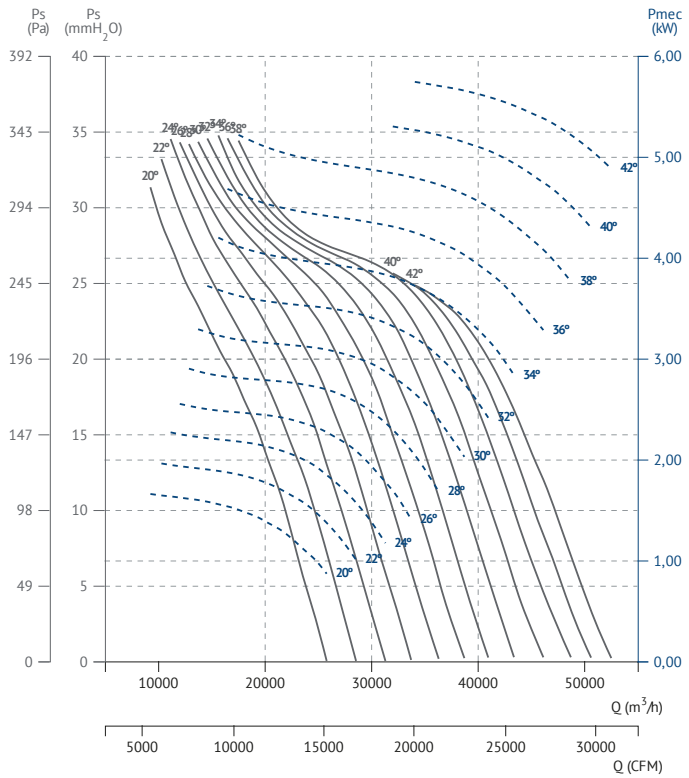
HBX 100 T4 (A6:6)



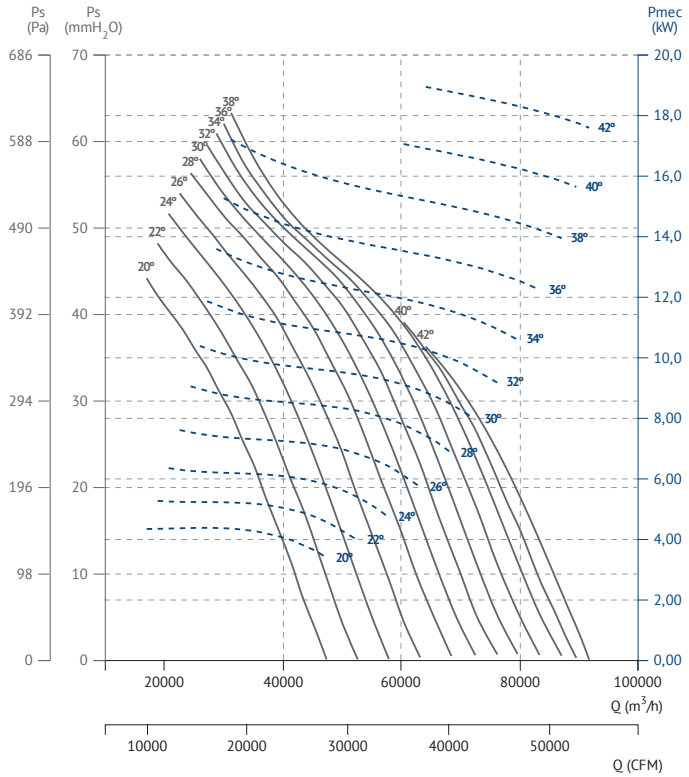
HBX 100 T6 (A6:3)



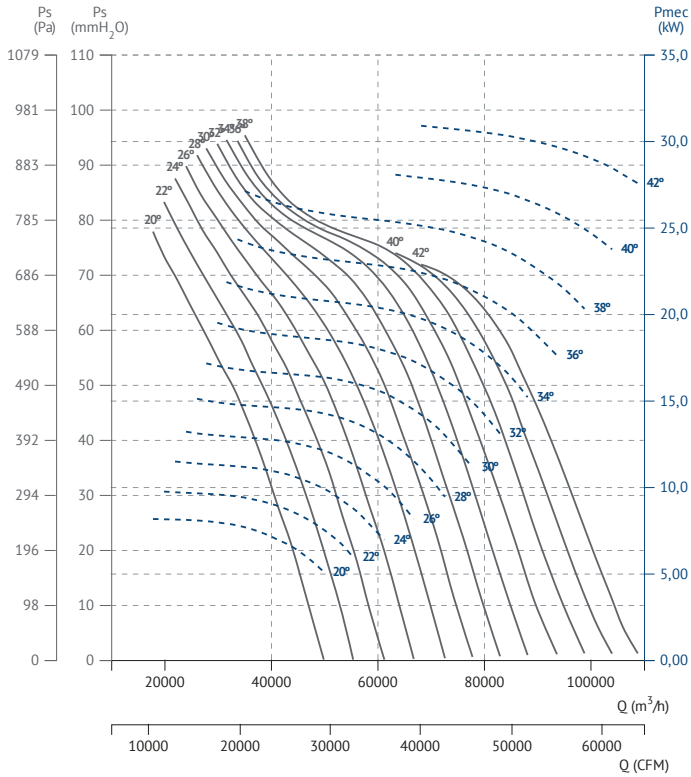
HBX 100 T6 (A6:6)



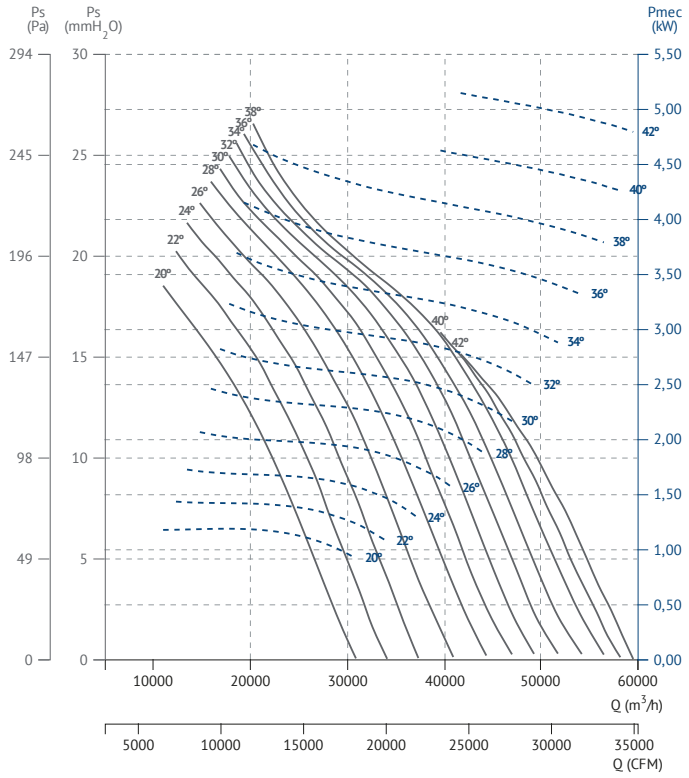
HBX 112 T4 (A6:3)



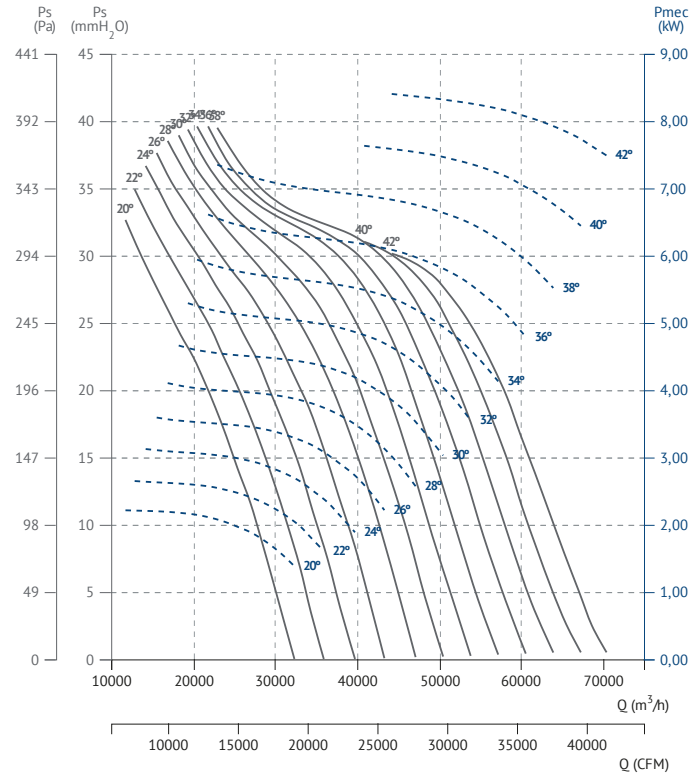
HBX 112 T4 (A6:6)



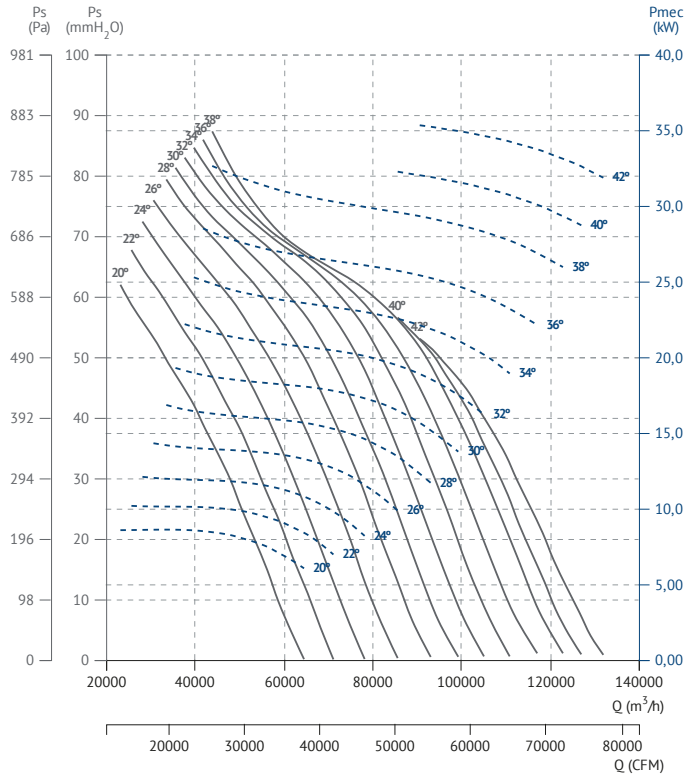
HBX 112 T6 (A6:3)



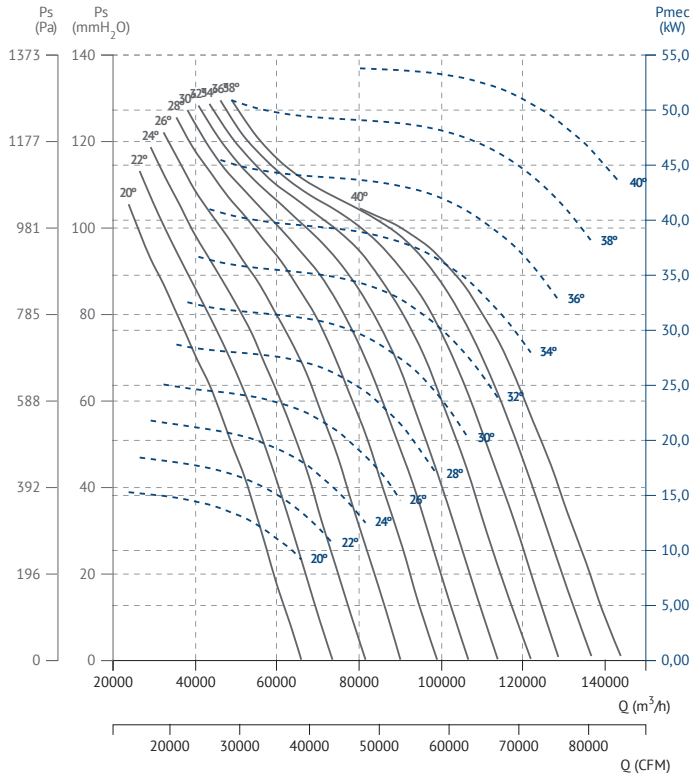
HBX 112 T6 (A6:6)



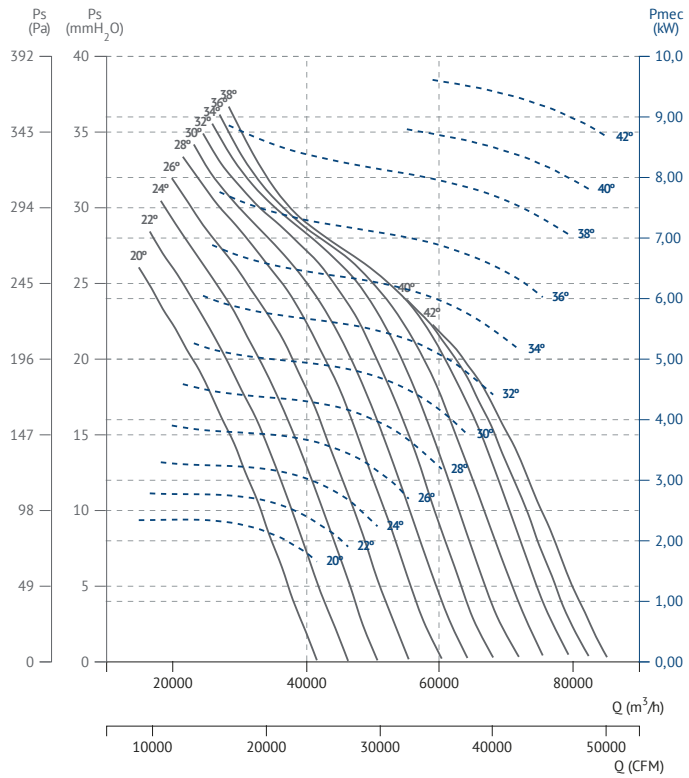
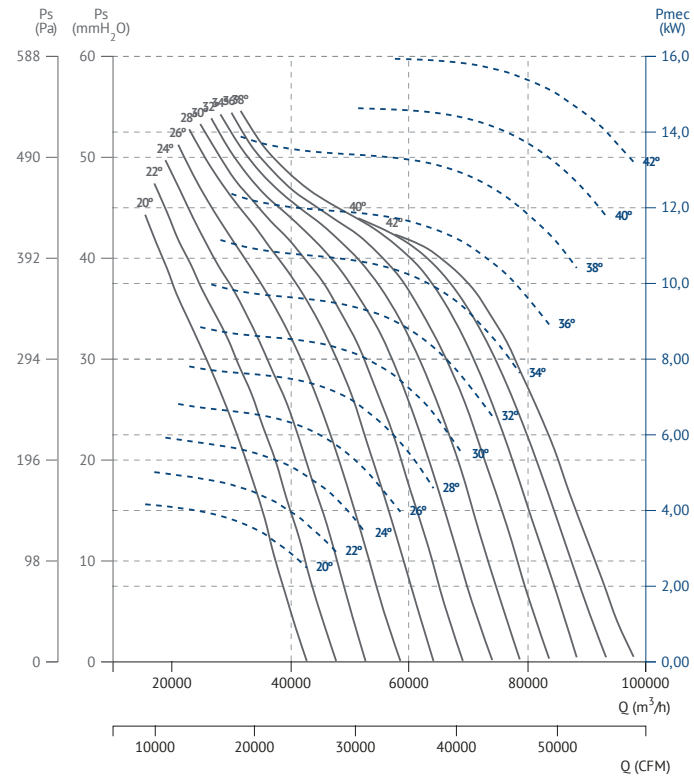
HBX 125 T4 (A7:4)



HBX 125 T4 (A7:8)



HBX 125 T6 (A7:4)



HBX 125 T6 (A7:8)