

VENTILADORES CENTRÍFUGOS DE DOBLE OÍDO Serie DA

Los ventiladores DA son ventiladores centrífugos de baja presión, de doble oído y equipados con una turbina con álabes curvados hacia delante.

La gama se compone de 15 tamaños distintos, disponibles en varias versiones.

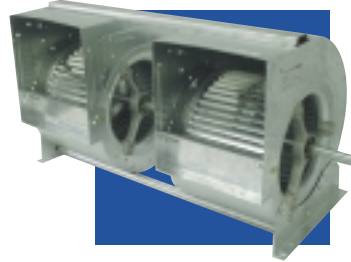
THE DA CENTRIFUGAL FANS

DA fans are low pressure centrifugal fans, with double inlet and equipped with a forward curved blade.

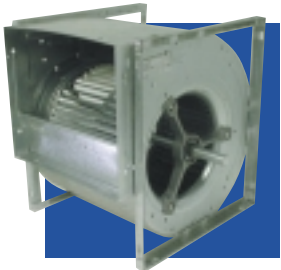
The range comprises 15 different sizes available in several versions.



DA-NT
11 modelos del 7/7 al 18/18
11 models from 7/7 to 18/18



DA-N2T
11 modelos del 7/7 al 18/18
11 models from 7/7 to 18/18



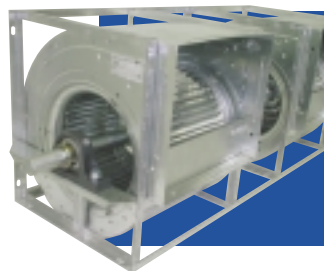
DA-RT
11 modelos del 7/7 al 18/18
11 models from 7/7 to 18/18



DA-RTC
11 modelos del 7/7 al 18/18
11 models from 7/7 to 18/18

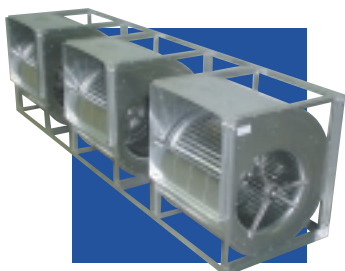


DA-RTCE
9 modelos del 7/7 al 30/28
9 models from 7/7 to 30/28

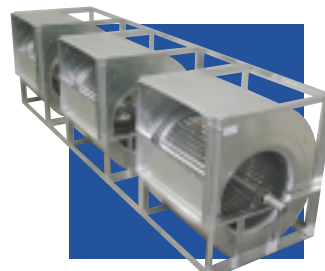


DA-R2TC
11 modelos del 7/7 al 30/28
11 models from 7/7 to 30/28

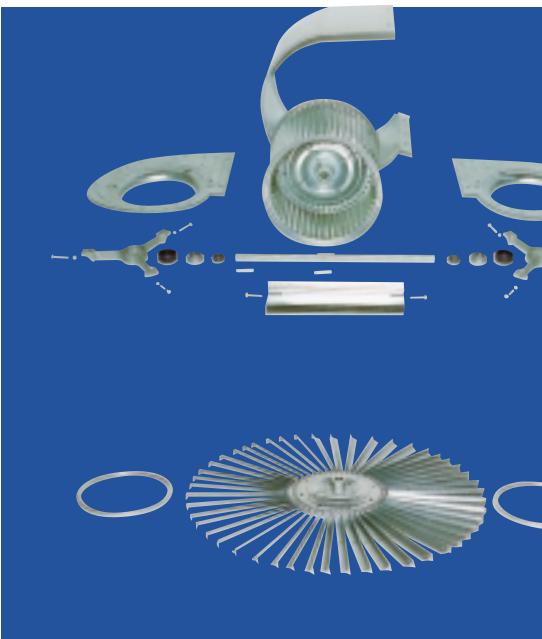
DA-R2TCE
13 modelos del 7/7 al 30/28
13 models from 7/7 to 30/28



DA-R3TC
7 modelos del 9/7 al 18/18
7 models from 9/7 to 18/18



DA-R3TCE
8 modelos del 7/7 al 30/28
8 models from 7/7 to 30/28



DA

Detalles constructivos

Los ventiladores de la serie DA tienen una turbina centrífuga con álabes curvados hacia delante, engatillados por ambos lados a dos anillos de acero, y por el centro a un disco doble.

El diseño del álabes está concebido para minimizar las pérdidas por turbulencias del aire y obtener la máxima eficacia con el mínimo nivel sonoro.

Todas las turbinas son equilibradas estáticamente y dinámicamente.

Las volutas, de chapa galvanizada, están formadas por dos laterales soldados por puntos a una envolvente curva. Un deflector montado en la boca de descarga limita la formación de turbulencias.

Los laterales tienen un perfil aerodinámico e incorporan una serie de taladros para fijar los pies y el soporte motor, pudiéndose seleccionar 4 posiciones para los pies y 8 para el soporte motor. Los rodamientos de bolas se montan sobre aros de goma excepto para los modelos reforzados que llevan cojinetes de fundición.

Pueden trabajar entre temperaturas de -30°C y + 85°C.

Los ventiladores de la serie "R" están basados en ventiladores estándar "N" equipados con estructuras laterales de forma rectangular construidas con perfiles en "L" que refuerzan el aparato, formando una estructura cúbica. Esta estructura está soldada a los laterales del ventilador. Unos taladros de coliso en las esquinas del marco permiten un anclaje correcto.

Construction details

DA fans have forward curved centrifugal impellers, tablocked on both sides to two steel rings and to a double disk at the centre.

The blade is designed to minimize the loss caused by air turbulence and to obtain maximum efficiency with minimum sound level.

All impellers are dynamically balanced.

The housings, in galvanized steel, are formed by two side plates spot-welded to a central scroll. A cut-off mounted on the discharge prevents turbulence.

The side plates have an aerodynamic profile and include some drill holes to allow fixing of the base supports as well as the motor support. Four positions can be selected for the base support and eight for the motor support.

The ball bearings are mounted on rubber inserts to reduce vibration except for the framed versions which are filled with cast ball bearing housings.

Operating temperature -30°C to + 85°C.

The "R" series fans are based on standard "N" fans equipped with rectangular side structures built with "L" profiles which reinforce the unit, forming a rigid cube structure. This frame is welded to the sides of the fan. A number of groove-shaped drills on the strengthening frame corners allow for a proper fixation.

VENTILADORES CENTRÍFUGOS DE DOBLE OÍDO PREMONTADOS Serie DAP



DESCRIPCION

Los ventiladores de las series DAP, situados sobre bancada o de motor colgado, han sido fabricados con rodetes de álabes hacia delante, engatillados por ambos lados a dos anillos de acero y, por el centro, a un disco doble.

Álabes

El álabe ha sido diseñado para minimizar las pérdidas debidas a las turbulencias del aire y así obtener la máxima eficacia con el mínimo nivel sonoro. Todas las turbinas se equilibran de forma estática y dinámica.

Volutas

Las volutas están fabricadas en chapa galvanizada y formadas por dos laterales soldados por puntos a una envolvente curva. La formación de turbulencias se limita montando un deflector en la boca de descarga. Los laterales disponen de un perfil

aerodinámico e incorporan una serie de taladros para fijar los pies y el soporte motor. Se pueden seleccionar 4 posiciones para los pies.

Rodamientos

Disponen de rodamientos de bolas que se montan sobre aros de goma (excepto para los modelos reforzados "E" que incorporan soportes de hierro fundido).

Los ventiladores de la serie "R" se fabrican partiendo de los ventiladores estándar, añadiendo unas estructuras laterales rectangulares construidas con perfiles en "L" formando una estructura cúbica que refuerza el aparato. Esta estructura está soldada a los laterales del ventilador. Para un correcto anclaje, se utilizan unos taladros de coliso en las esquinas del marco.

DAP

CARACTERISTICAS TECNICAS

		MODELOS														
		7/7	9/7	9/9	10/8	10/10	12/9	12/12	15/11	15/15	18/13	18/18	20/20	22/22	25/25	30/28
MÁXIMAS RPM	DAP/Simple	2400	2400	2200	1800	1800	1600	1400	1300	1200	1000	1000	1000	900	750	600
	DAP/Doble	2200	2200	2000	1600	1600	1500	1300	1200	1100	950	950	900	900	600	600
	DAP/Triple		2400	2200	1800	1800	1600	1400	1200	1200	1000	1000	800	800	600	500
POTENCIA ABSORBIDA MÁXIMA (kW)	DAP/Simple	1	3	3	2,2	2,2	2,2	3	5,5	5,5	7,5	7,5	8	13	13	14
	DAP/Doble	2	6	6	4,4	4,4	4,4	6	11	11	15	15	16	26	26	28
	DAP/Triple		9	9	6,6	6,6	6,6	9	16,5	16,5	22,5	22,5	24	39	39	42
TEMPERATURAS LÍMITES (°C)	DAP/Simple	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85
	DAP/Doble	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85
	DAP/Triple	-20/+100	-20/+100	-20/+100	-20/+100	-20/+100	-20/+100	-20/+100	-20/+100	-20/+100	-20/+100	-20/+100	-20/+100	-20/+100	-20/+100	-20/+100

OEM CENTRIFUGAL FAN-DECK ASSEMBLIES (PRE-MOUNTED) DAP Series



DESCRIPTION

The DAP Series of belt-drive fan-deck assemblies are available with either a fan scroll or separate base frame mounted motor configurations. All models include forward curved centrifugal fan impellers, with electro-welded double disc hubs supported on both sides by high quality ball bearing assemblies.

Impeller

All impellers have been specifically designed and matched to maximise air-flow efficiency and minimise generated noise levels.

All impellers are balanced both statically and dynamically before complete DAP unit assembly.

Fan Scroll

The fan scrolls encasing the centrifugal impellers are manufactured from high grade galvanised sheet steel. The scrolls consist of two pressed side inlet parts with an electro-welded rolled shell.

All scrolls have been designed to minimise turbulence at the outlet by including a specially formed cut-off. The pressed casing sides also include strengthening ribs, and mounting hole positions for both motor and support feet. These holes enable both the motor and support feet to be mounted in one of four positions as required.

Ball Bearings

All ball bearings are mounted on rubber inserts to reduce vibration (except for DAP-RC models which are supplied with die cast bearing housings).

The DAP-RC series are manufactured with an "L" shape profiled galvanised steel support frame. This support frame is welded to the sides of the fan scroll to reinforce the unit forming a rigid cube structure. In addition the frame includes a number of elongated fixing point holes to facilitate a multitude of installation configurations.

TECHNICAL CHARACTERISTICS

		MODEL SIZE														
		7/7	9/7	9/9	10/8	10/10	12/9	12/12	15/11	15/15	18/13	18/18	20/20	22/22	25/25	30/28
MAXIMUM RPM	DAP/Simple	2400	2400	2200	1800	1800	1600	1400	1300	1200	1000	1000	1000	900	750	600
	DAP/Double	2200	2200	2000	1600	1600	1500	1300	1200	1100	950	950	900	900	600	600
	DAP/Triple		2400	2200	1800	1800	1600	1400	1200	1200	1000	1000	800	800	600	500
MAXIMUM ABSORBED POWER (kW)	DAP/Simple	1	3	3	2,2	2,2	2,2	3	5,5	5,5	7,5	7,5	8	13	13	14
	DAP/Double	2	6	6	4,4	4,4	4,4	6	11	11	15	15	16	26	26	28
	DAP/Triple		9	9	6,6	6,6	6,6	9	16,5	16,5	22,5	22,5	24	39	39	42
TEMPERATURE LIMITS (°C)	DAP/Simple	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85
	DAP/Double	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85	-20/+85
	DAP/Triple	-20/+100	-20/+100	-20/+100	-20/+100	-20/+100	-20/+100	-20/+100	-20/+100	-20/+100	-20/+100	-20/+100	-20/+100	-20/+100	-20/+100	-20/+100



Selección del ventilador

En función del caudal y de la presión se definen los parámetros necesarios para el montaje de la transmisión y del motor:

Elección del motor:

Las curvas de potencias indicadas en las gráficas son potencias absorbidas al eje del ventilador en kW. Para determinar la potencia motor que se tiene que instalar se debe multiplicar la potencia absorbida por un coeficiente de 1,15. Para la transformación de kW en CV se multiplican los kW por 1,34.

Nivel sonoro:

Las curvas de niveles sonoros son curvas de presión medidas a 1 metro

Presión dinámica:

La velocidad indicada en las gráficas así como la presión dinámica hacen referencia a la superficie total de la boca de descarga.

Cuando el ventilador se utiliza a descarga libre se tiene que añadir una pérdida de carga adicional equivalente a una vez la presión dinámica.

Rendimiento:

El rendimiento del ventilador viene determinado por la siguiente fórmula:

$$h (\%) = \frac{V(m^3/h) \times (Hst+Hd) (mmH_2O)}{3670 \times PA (kW)}$$

Simbolos de identificación:

V	Caudal de aire en m ³ /h
Hst	Presión estática en mmH ₂ O - Pa
Hd	Presión dinámica en mmH ₂ O - Pa
PA	Potencia absorbida en kW
RPM	Número de revoluciones del rodete
c	Velocidad de salida de aire en m/s
dB(A)	Nivel de presión sonora en dB(A)
η	Rendimiento en %

Valores requeridos:

V	= 10000 m ³ /h
Hst	= 30 mmH ₂ O

Otros datos:

Hst	= 294 Pa
Hd	= 6,7 mmH ₂ O
Hd	= 65,7 Pa
PA	= 1,4 kW
RPM	= 633 RPM
c	= 10,4 m/s
dB	= 83 dB(A)
η	= 71%

Fan selection

According to the air flow and pressure, the parameters needed for assembly of the motor and belt drive arrangement are defined as follows:

Selection of the motor

The power curves showed in the diagrams are absorbed powers to the fan shaft in kW. To determine the motor power required, the absorbed power should be multiplied by a factor of 1.15. To get kW into HP (CV), the kW figure should be multiplied by 1.34.

Sound level

The sound level curves are pressure curves measured at 1 metre.

Dynamic pressure

The speed showed in the diagrams as well as the dynamic pressure refer to the total surface of the discharge outlet. When the fan is used at free discharge, an additional charge loss equivalent to 1 x the dynamic pressure should be added.

Performance

The fan performance is determined by the following formula:

$$h (\%) = \frac{V(m^3/h) \times (Hst+Hd) (mmH_2O)}{3670 \times PA (kW)}$$

Identification symbols:

V	Airflow in m ³ /h
Hst	Static pressure in mmH ₂ O - Pa
Hd	Velocity pressure in mmH ₂ O - Pa
PA	Absorbed power in kW
RPM	Wheel speed
c	Outlet air speed in m/s
dB(A)	Sound pressure level in dB(A)
η	Efficiency in %

Requested datas:

V	= 10000 m ³ /h
Hst	= 30 mmH ₂ O

Other datas:

Hst	= 294 Pa
Hd	= 6,7 mmH ₂ O
Hd	= 65,7 Pa
PA	= 1,4 kW
RPM	= 633 RPM
c	= 10,4 m/s
dB	= 83 dB(A)
η	= 71%

Curvas ventiladores DA/DAP

Las curvas son comunes a todas las versiones de ventiladores DA.

Para los ventiladores dobles (N2T, R2TC y R2TCE):

- El caudal se multiplica por **2**
- El nº de revoluciones se multiplica por **1,05**
- La potencia absorbida se multiplica por **2,15**

Para los ventiladores triples (R3TC y R3TCE):

- El caudal se multiplica por **3**
- El nº de revoluciones se multiplica por **1,08**
- La potencia absorbida se multiplica por **3,25**

DA/DAP Curves

The curves are common to all DA fan versions.

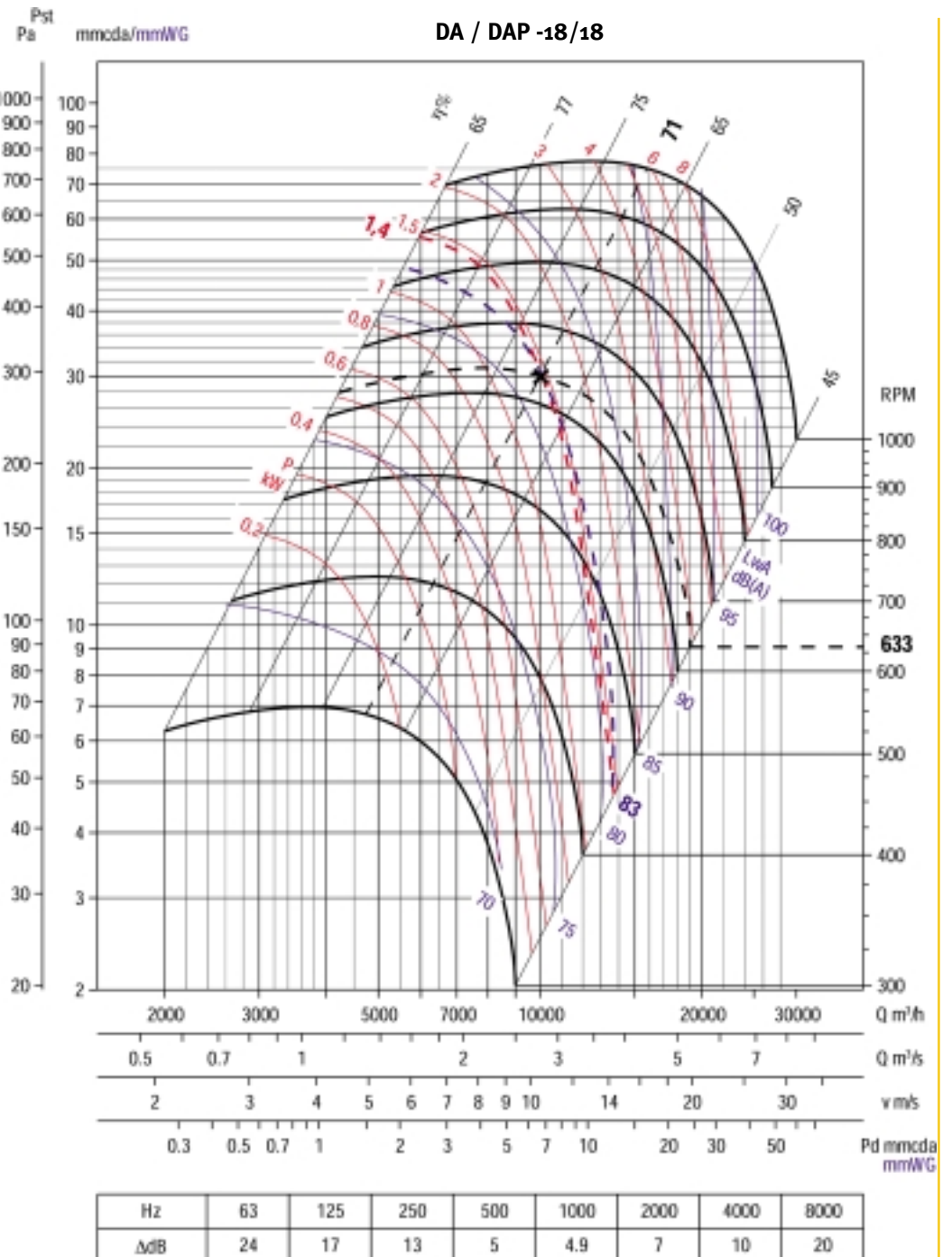
For the double fans (N2T, R2TC and R2TCE):

- The air flow must be multiplied by **2**
- The number of revolutions must be multiplied by **1.05**
- The absorbed power must be multiplied by **2.15**

For the triple fans (R3TC and R3TCE):

- The air flow must be multiplied by **3**
- The number of revolutions must be multiplied by **1.08**
- The absorbed power must be multiplied by **3.25**

EJEMPLO
EXAMPLE



Curvas de los ventiladores DA/DAP

Curves of the DA/DAP centrifugal fans

Las curvas son comunes a todas las versiones de ventiladores DA

The curves are common to all DA fan versions

Para los ventiladores dobles (N2T, R2TC y R2TCE):

For the double fans (N2T, R2TC and R2TCE):

- El caudal se multiplica por 2
- El nº de revoluciones se multiplica por 1,05
- La potencia absorbida se multiplica por 2,15

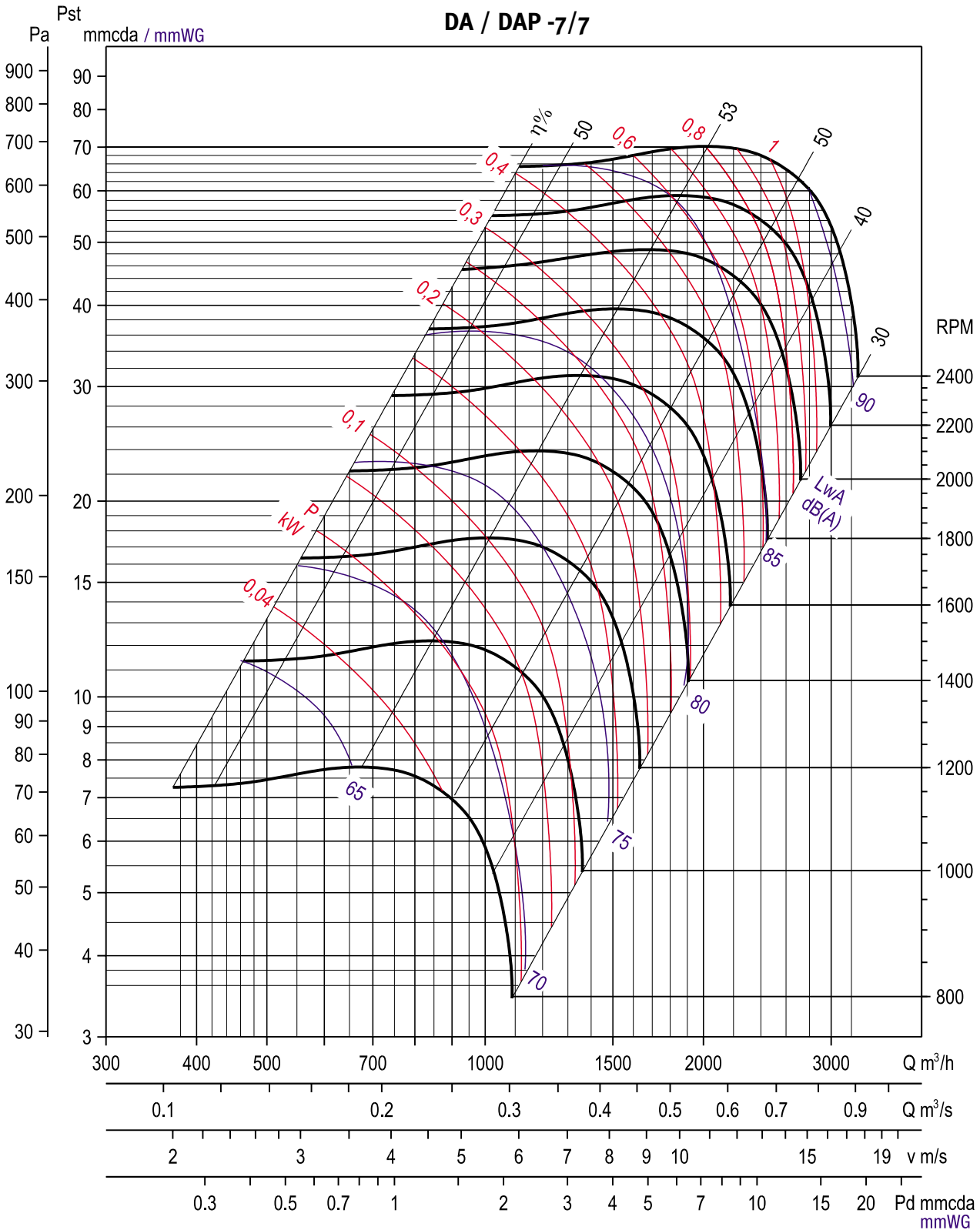
Para los ventiladores triples (R3TC y R3TCE):

For the triple fans (R3TC and R3TCE):

- El caudal se multiplica por 3
- El nº de revoluciones se multiplica por 1,08
- La potencia absorbida se multiplica por 3,25

For the triple fans (R3TC and R3TCE):

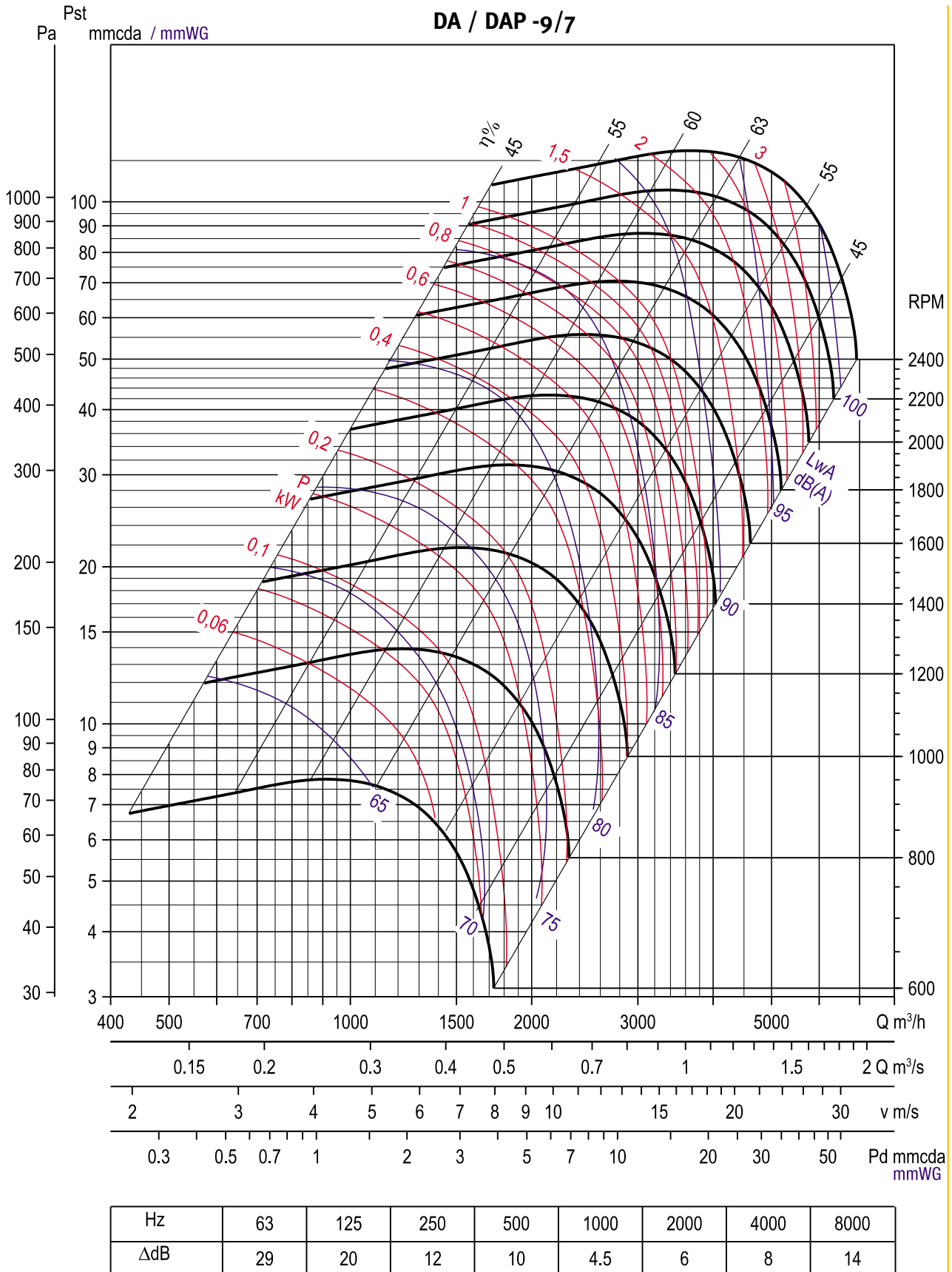
- The air flow must be multiplied by 3
- The number of revolutions must be multiplied by 1.08
- The absorbed power must be multiplied by 3.25



Hz	63	125	250	500	1000	2000	4000	8000
ΔdB	22	20	12	9	4.5	6.5	10	19

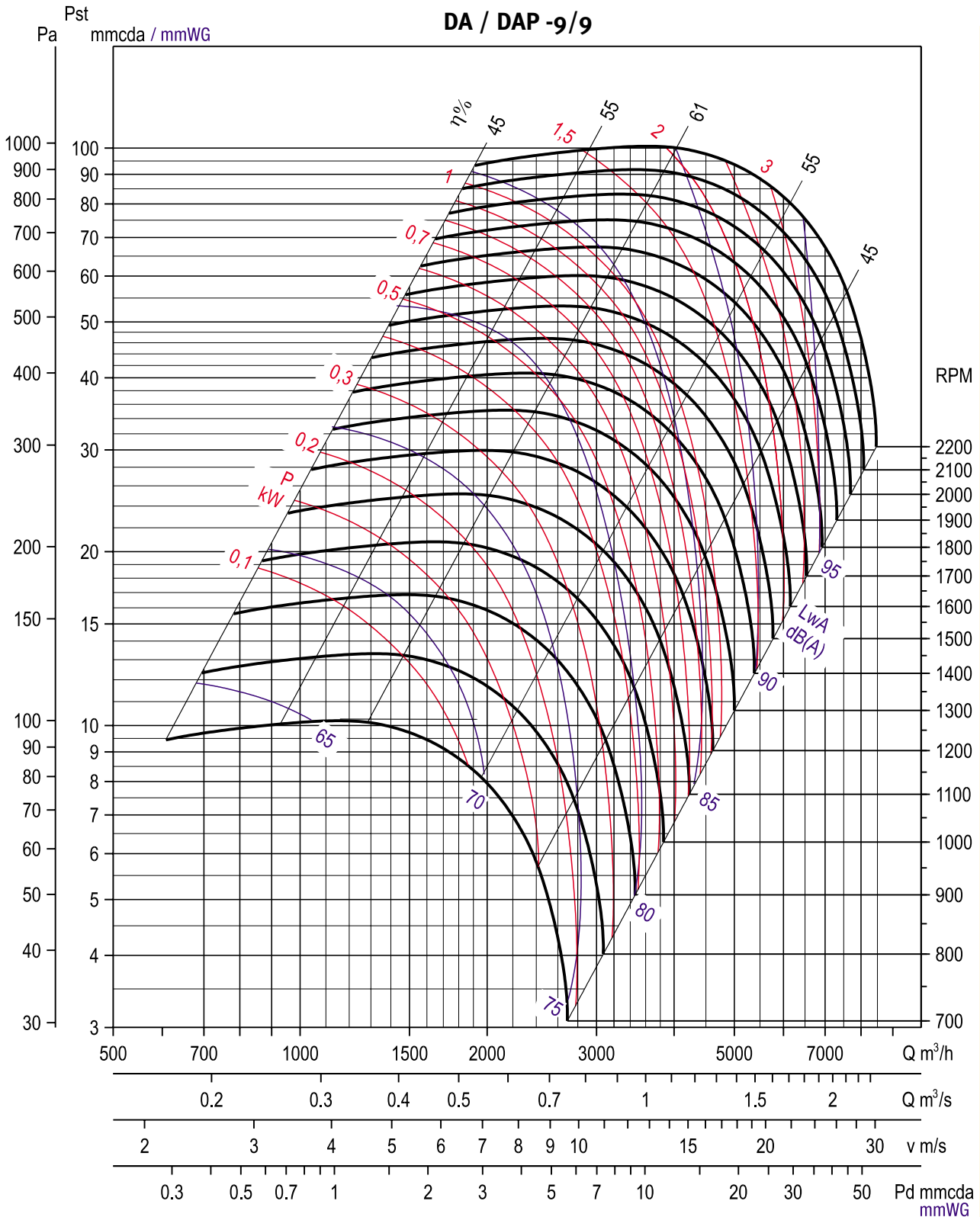
DA/DAP

CURVAS CARACTERISTICAS / TECHNICAL CHARACTERISTICS



CURVAS CARACTERISTICAS / TECHNICAL CHARACTERISTICS

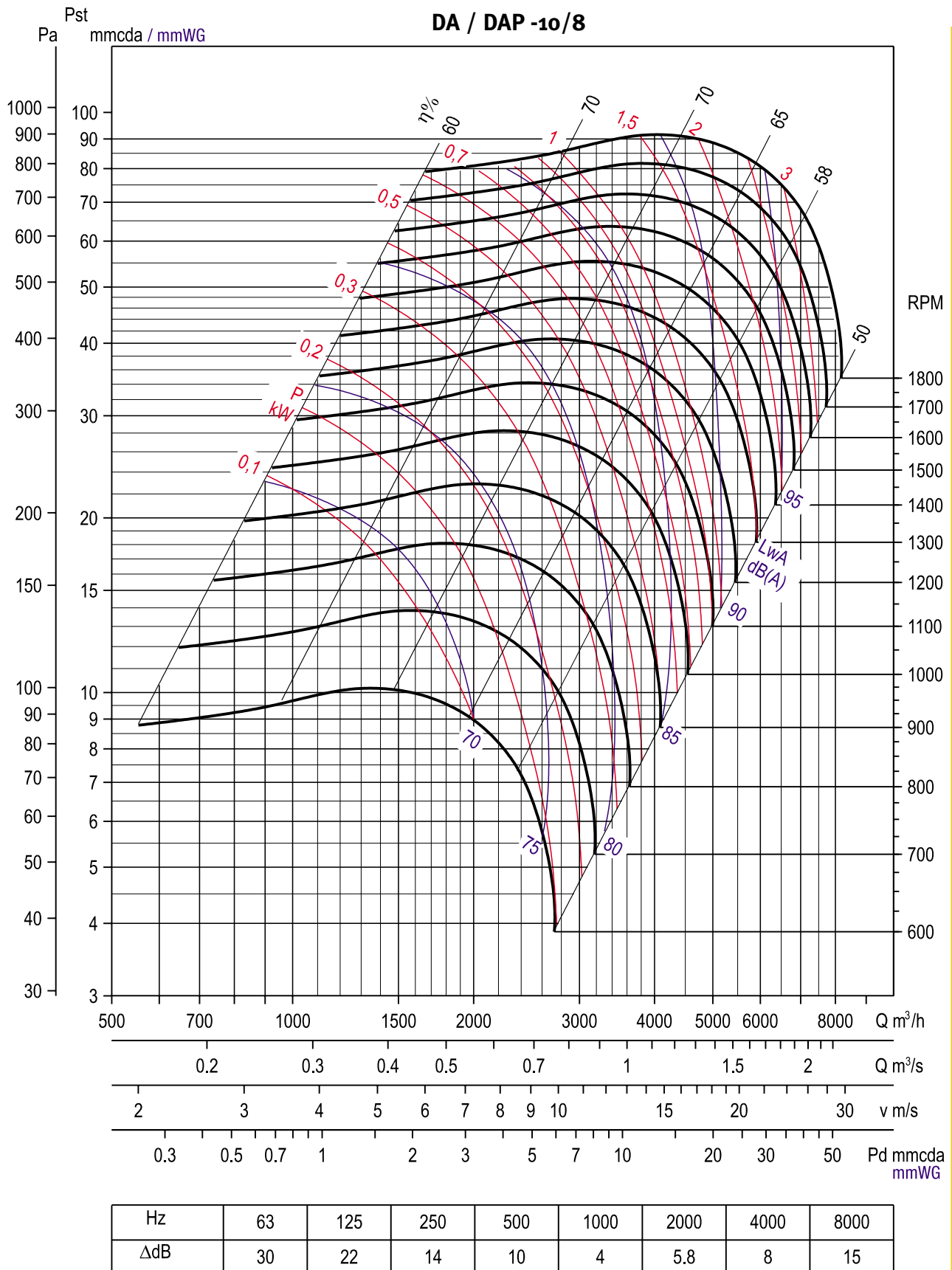
DA / DAP -9/9



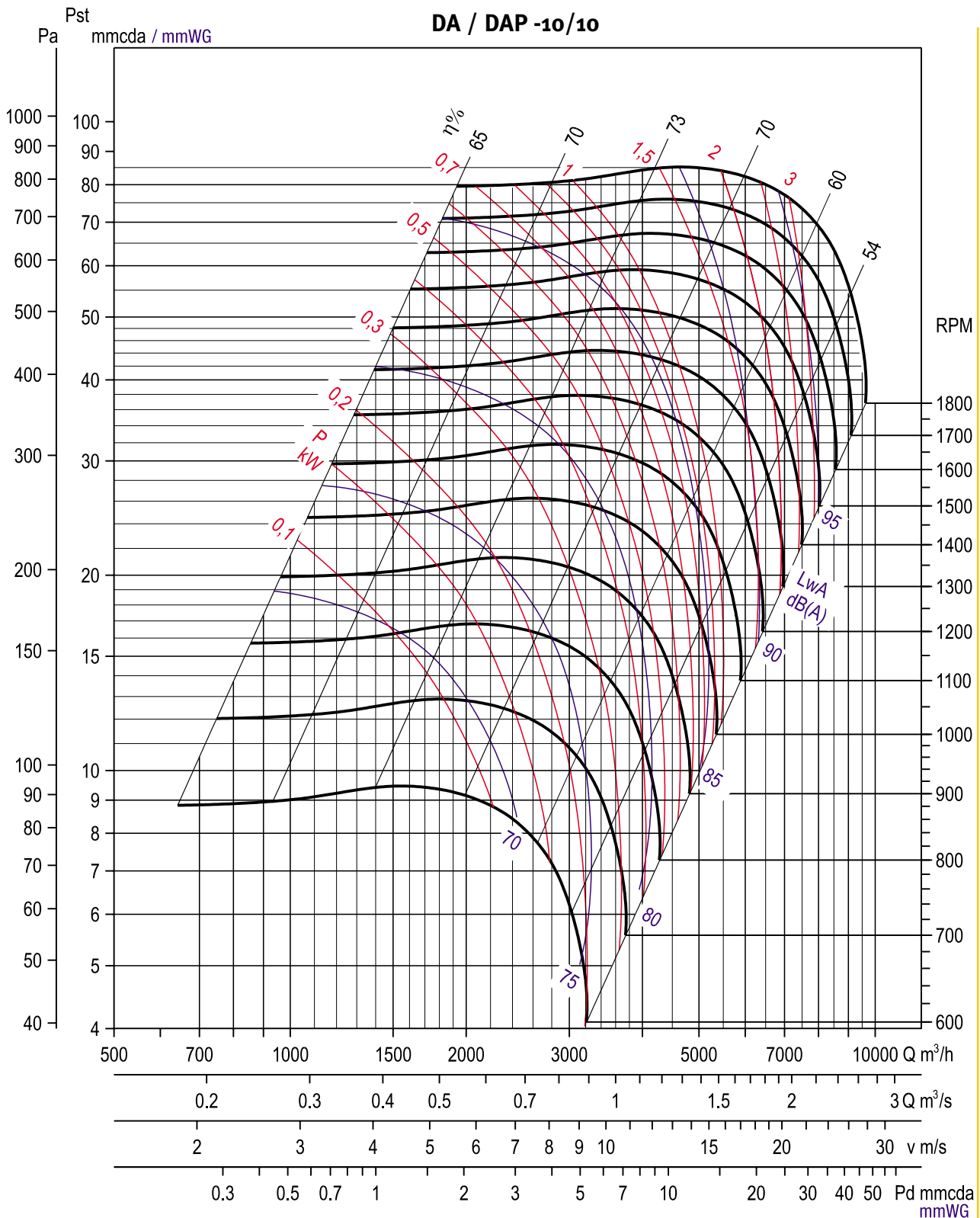
Hz	63	125	250	500	1000	2000	4000	8000
ΔdB	25	21	12	10	4.1	5.5	9	16

DA/DAP

CURVAS CARACTERISTICAS / TECHNICAL CHARACTERISTICS



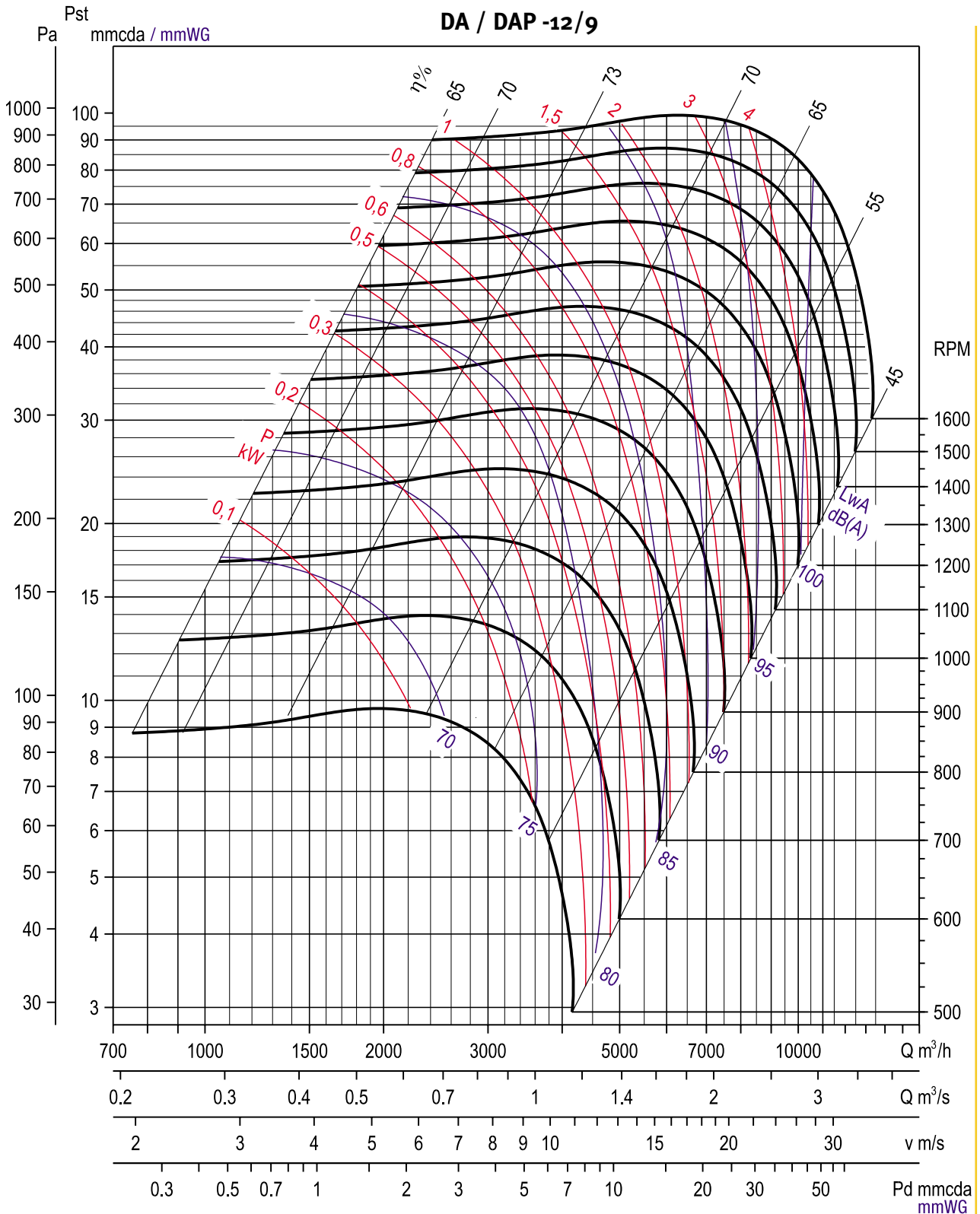
CURVAS CARACTERISTICAS / TECHNICAL CHARACTERISTICS



Hz	63	125	250	500	1000	2000	4000	8000
ΔdB	31	21	14	9	3.6	6.2	9	17

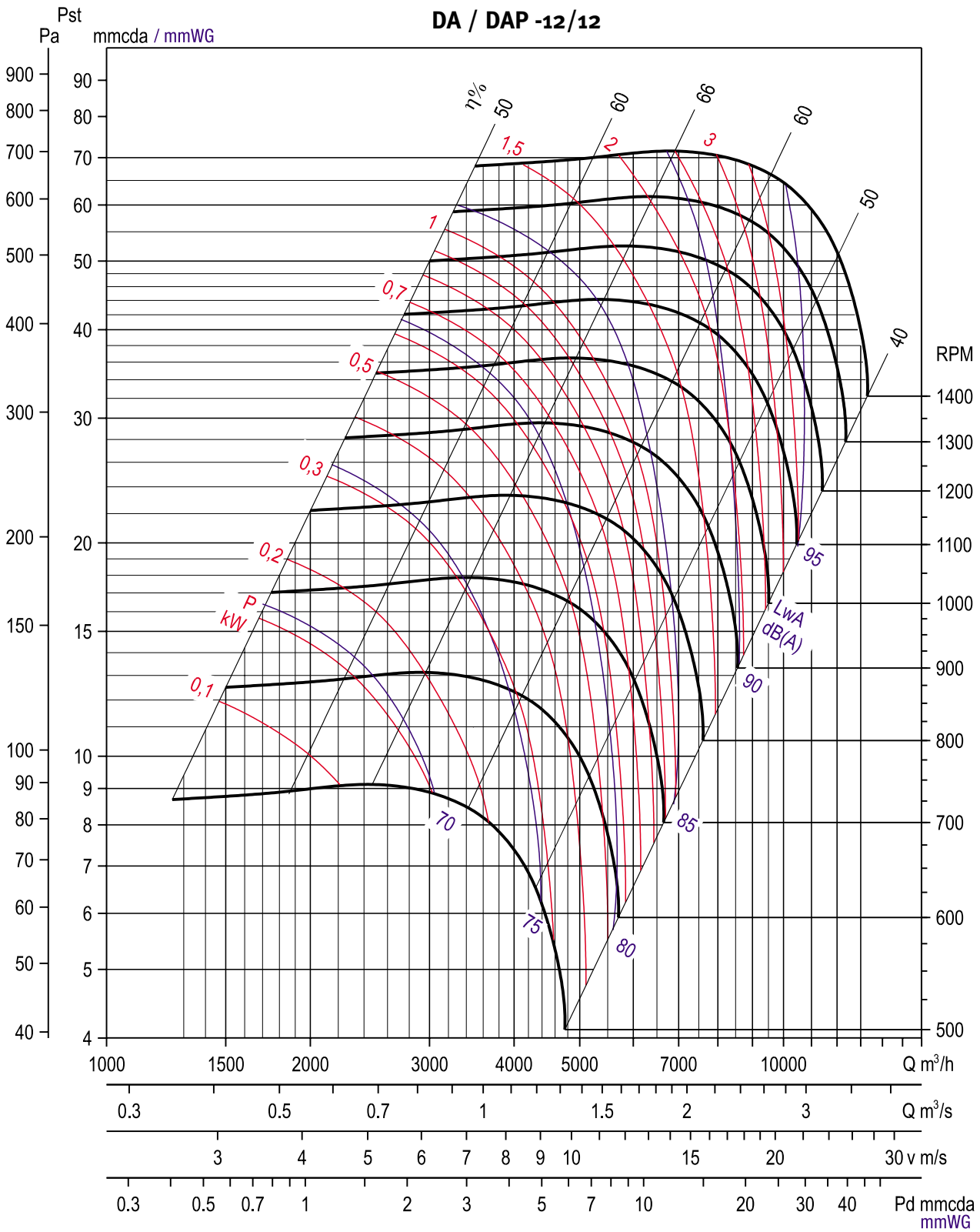
DA/DAP

CURVAS CARACTERISTICAS / TECHNICAL CHARACTERISTICS



Hz	63	125	250	500	1000	2000	4000	8000
ΔdB	30	22	15	9	3.5	5.5	10	18

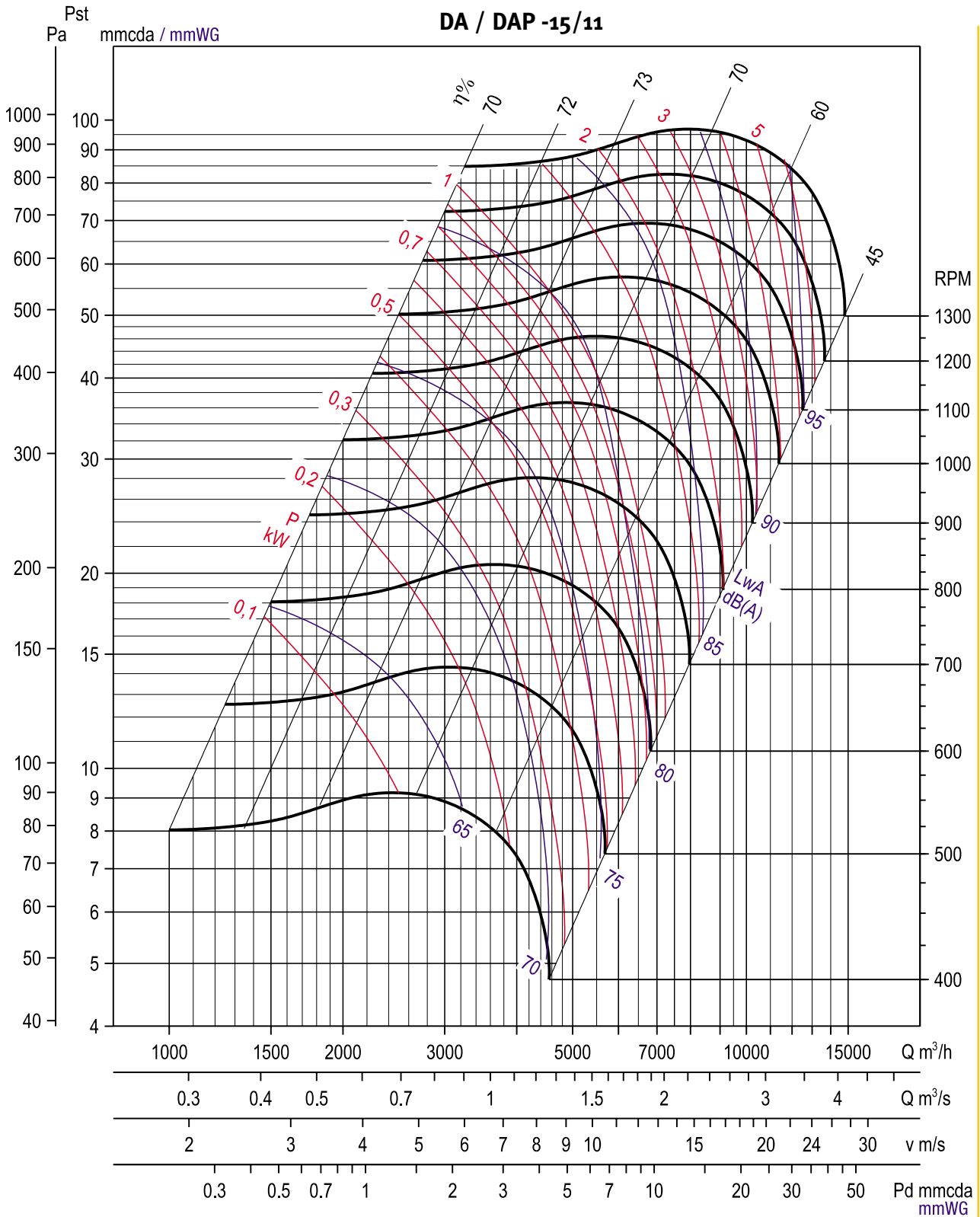
CURVAS CARACTERISTICAS / TECHNICAL CHARACTERISTICS



Hz	63	125	250	500	1000	2000	4000	8000
ΔdB	30	21	15	8	3.8	5.7	10	19

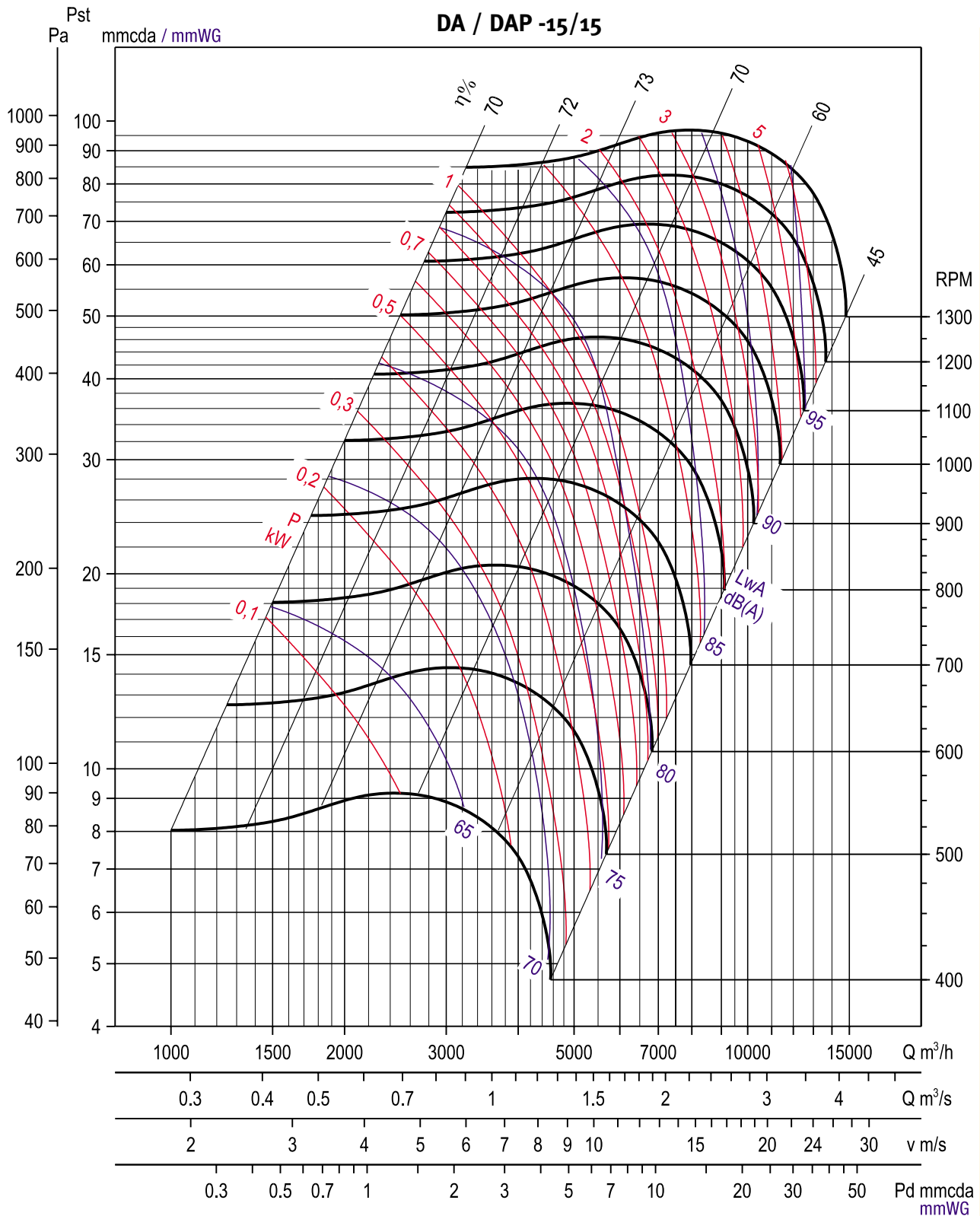
DA/DAP

CURVAS CARACTERISTICAS / TECHNICAL CHARACTERISTICS



Hz	63	125	250	500	1000	2000	4000	8000
ΔdB	26	18	15	8	4.7	5.7	8	16

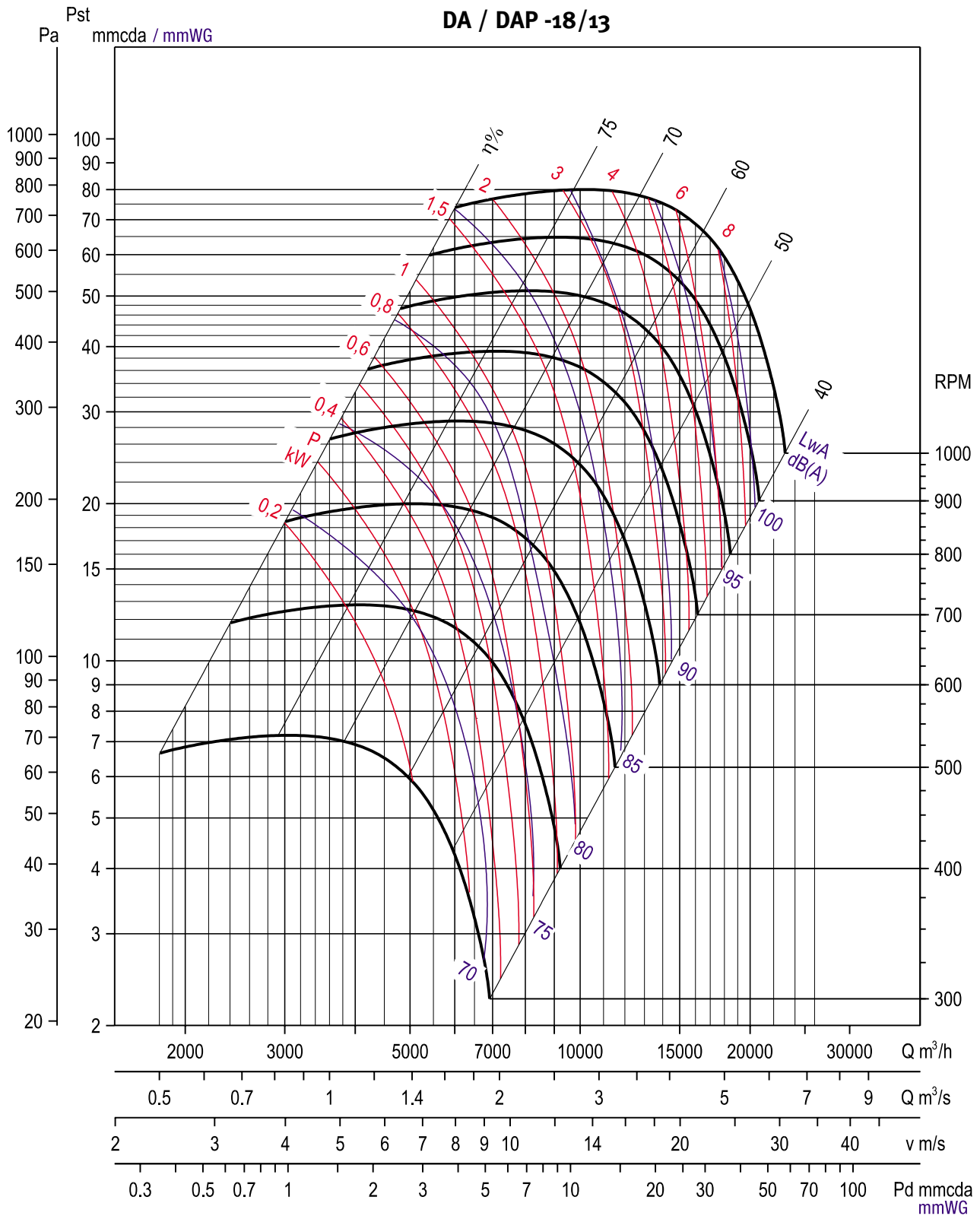
CURVAS CARACTERISTICAS / TECHNICAL CHARACTERISTICS



Hz	63	125	250	500	1000	2000	4000	8000
ΔdB	26	18	15	8	4.7	5.7	8	16

DA/DAP

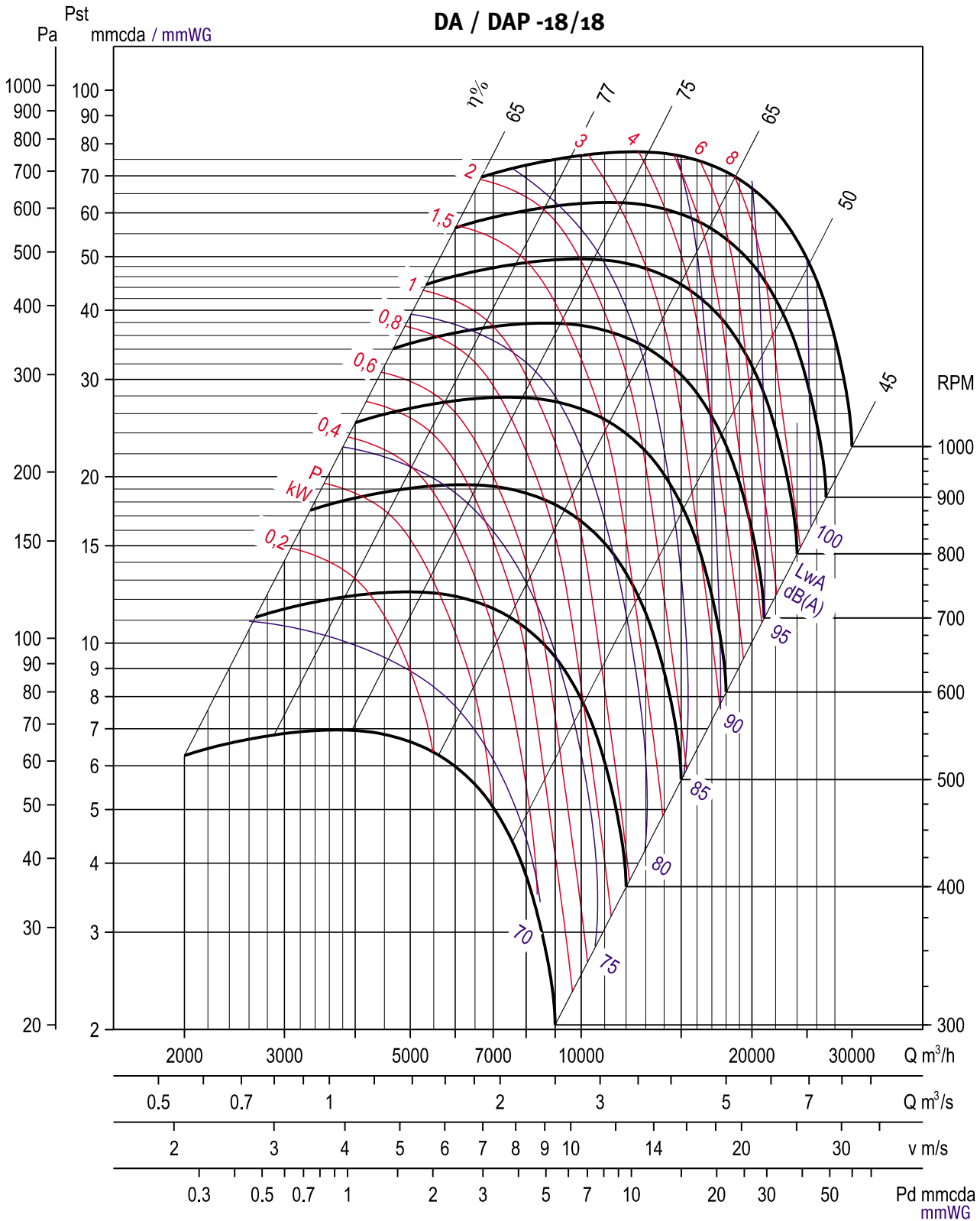
CURVAS CARACTERISTICAS / TECHNICAL CHARACTERISTICS



Hz	63	125	250	500	1000	2000	4000	8000
ΔdB	27	18	15	6.8	4.1	5.8	11	19

CURVAS CARACTERISTICAS / TECHNICAL CHARACTERISTICS

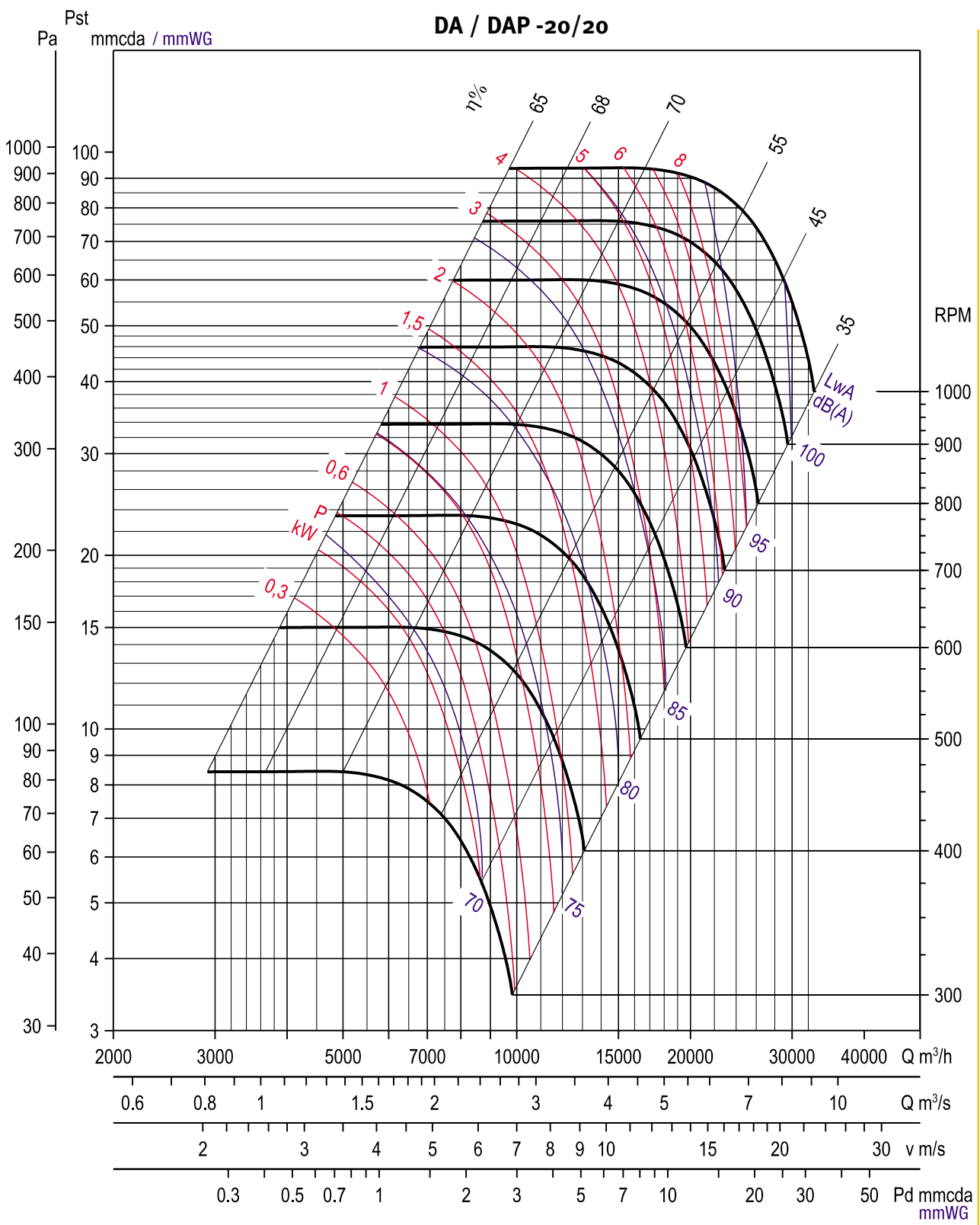
DA / DAP -18/18



Hz	63	125	250	500	1000	2000	4000	8000
ΔdB	24	17	13	5	4.9	7	10	20

DA/DAP

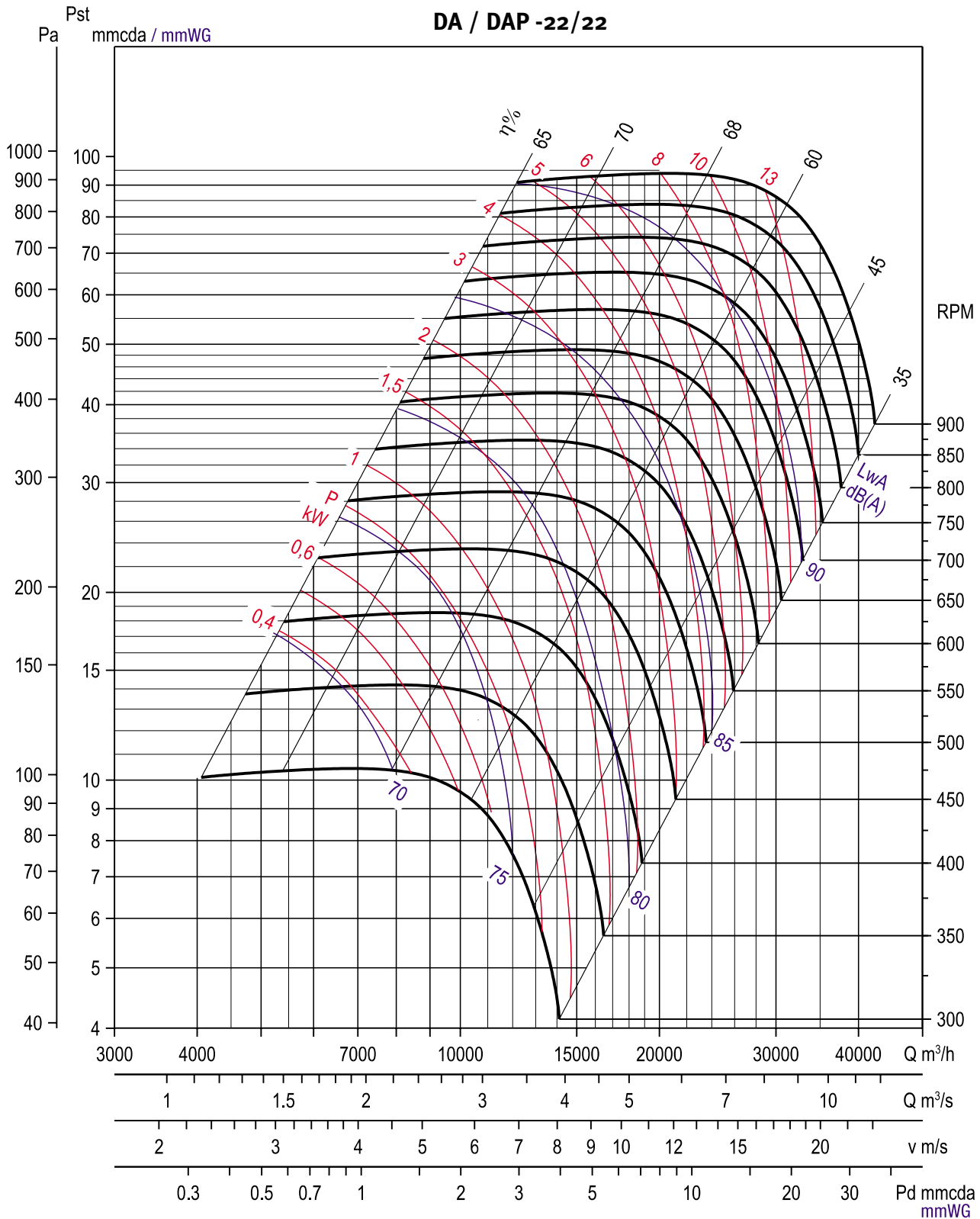
CURVAS CARACTERISTICAS / TECHNICAL CHARACTERISTICS



Hz	63	125	250	500	1000	2000	4000	8000
ΔdB	23	17	11	4.9	4.9	7	13	22

CURVAS CARACTERISTICAS / TECHNICAL CHARACTERISTICS

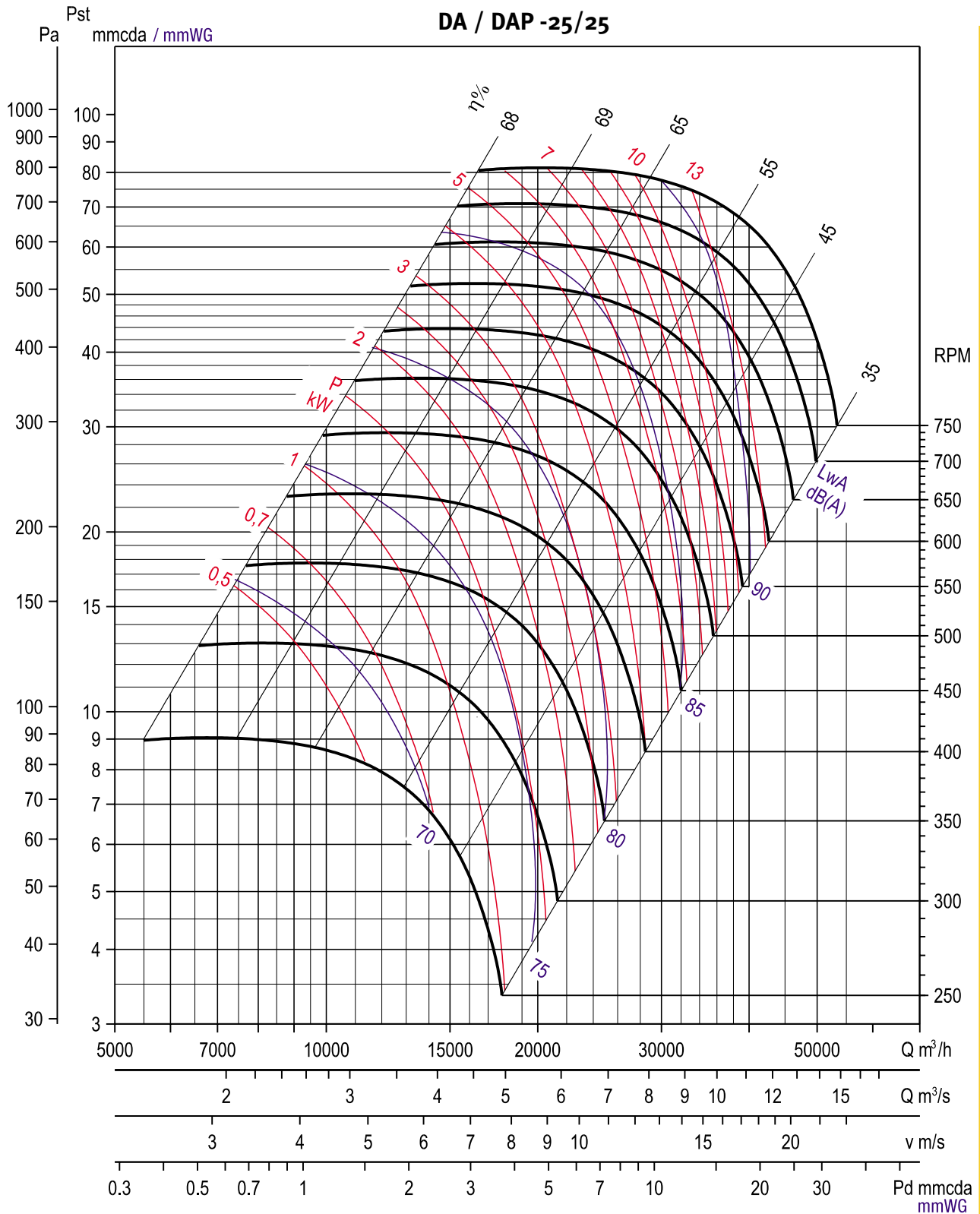
DA / DAP -22/22



Hz	63	125	250	500	1000	2000	4000	8000
ΔdB	22	17	12	4.3	4.3	9	16	22

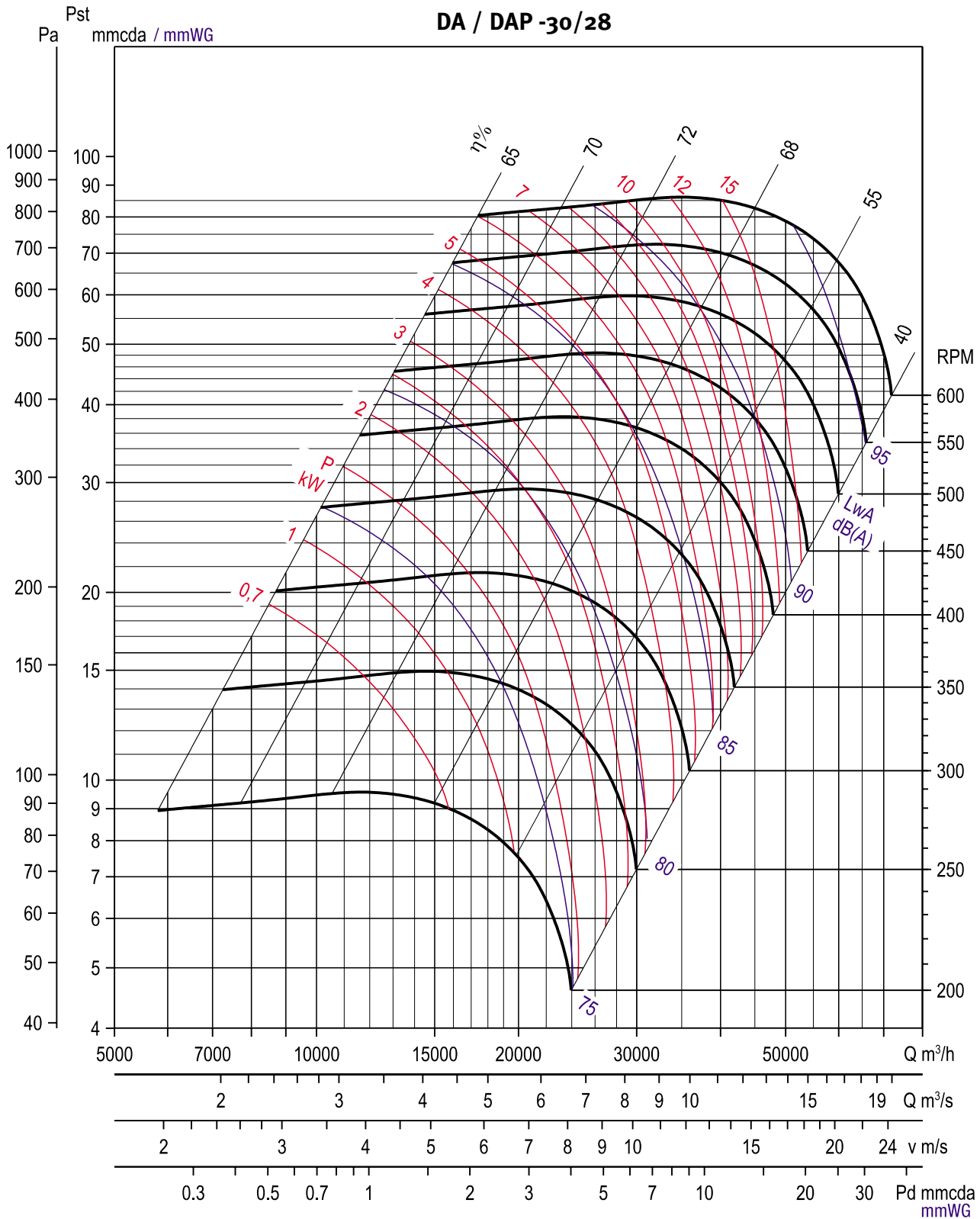
DA/DAP

CURVAS CARACTERISTICAS / TECHNICAL CHARACTERISTICS



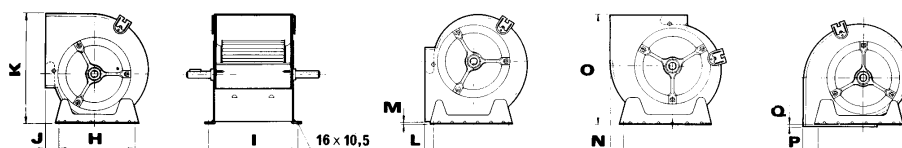
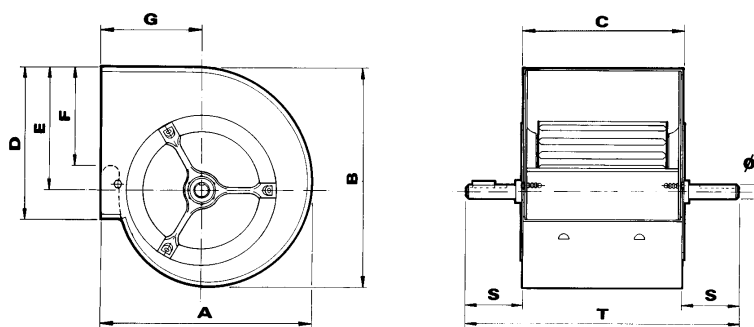
Hz	63	125	250	500	1000	2000	4000	8000
ΔdB	18	15	10	7.1	4.3	7	12	20

CURVAS CARACTERISTICAS / TECHNICAL CHARACTERISTICS



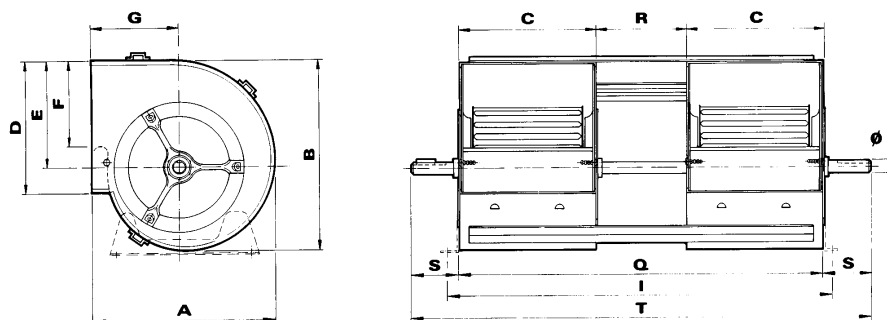
Hz	63	125	250	500	1000	2000	4000	8000
ΔdB	18	16	10	6	4.6	7	13	21

Dimensiones de los ventiladores DA/DAP Dimensions of the DA/DAP centrifugal fans



DA-NT

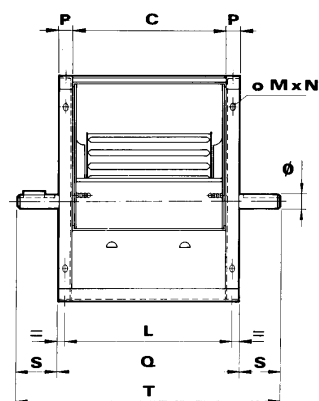
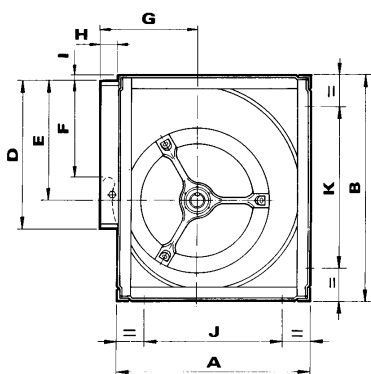
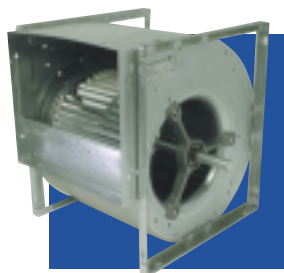
Tipo / Model type	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	S	T	Ø
7/7	307	321	232	221	180	145	146	227	259	18	328	18	4	33	310	17	4	49	330	20
9/7	380	392	232	259	218	180	184	297	259	67	395	67	36	33	383	35	7	79	390	20
9/9	380	392	299	259	218	180	184	297	327	67	395	67	36	33	383	35	7	60	420	20
10/8	422	441	267	287	247	213	201	339	293	67	448	65	38	38	423	39	7	62	390	20
10/10	422	441	333	287	247	213	201	339	360	67	448	65	38	38	423	39	7	63,5	460	20
12/9	493	524	311	341	293	240	229	407	338	67	530	70	38	38	499	42	7	59,5	430	25
12/12	493	524	396	341	293	240	229	407	423	67	530	70	38	38	499	42	7	70	536	25
15/11	573	613	372	403	343	270	267	494	400	64	624	69	38	44	576	48	7	81,5	536	25
15/15	573	613	472	403	343	270	267	494	500	64	624	69	38	44	576	48	7	71	615	25
18/13	685	743	436	480	418	290	314	608	463	36	753	52	42	89	689	94	7	72	580	25
18/18	685	743	557	480	418	290	314	608	583	36	753	52	42	89	689	94	7	68	692	25



DA-N2T

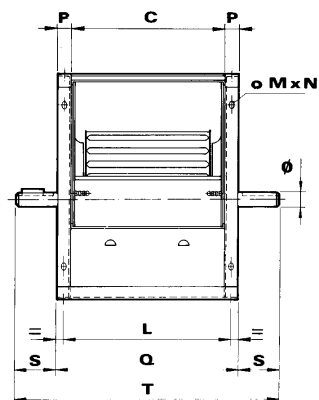
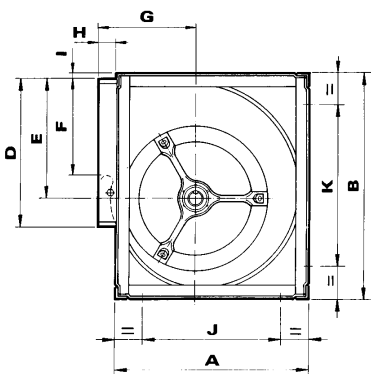
Tipo / Model type	A	B	C	D	E	F	G	I	Q	R	S	T	Ø
7/7	307	321	232	222	180	145	146	671	644	180	106	856	20
9/7	380	392	232	260	218	180	184	671	644	180	106	856	20
9/9	380	392	300	260	218	180	184	863	836	236	105	1.046	20
10/8	422	441	266	289	247	213	201	765	738	206	106	950	20
10/10	422	441	333	289	247	213	201	951	924	258	88	1.100	20
12/9	493	524	311	341	293	240	229	883	856	234	105	1.066	25
12/12	493	524	396	341	293	240	229	1.133	1.106	314	85	1.276	25
15/11	573	613	373	403	343	270	267	1.060	1.033	287	105	1.243	25
15/15	573	613	473	403	343	270	267	1.354	1.327	381	105	1.537	25
18/13	685	743	436	479	418	290	314	1.243	1.216	344	102	1.420	25
18/18	685	743	556	479	418	290	314	1.595	1.568	456	88	1.744	25

DIMENSIONES (mm) / DIMENSIONS (mm)



DA-RT

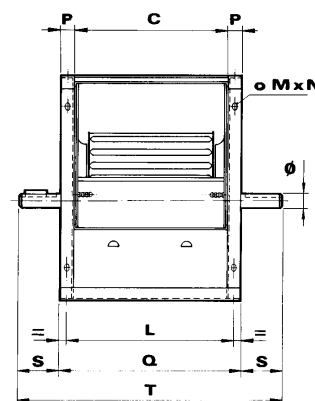
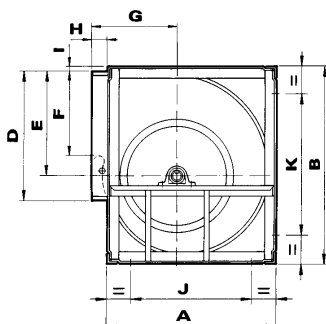
Tipo / Model type	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	S	T	Ø
7/7	288	334	232	222	180	145	146	30	6	208	254	252	16	8,5	20	272	59	390	20
9/7	350	405	232	260	218	180	184	36	6	270	323	252	16	8,5	20	272	59	390	20
9/9	350	405	300	260	218	180	184	36	6	270	323	320	16	8,5	20	340	60	460	20
10/8	393	453	266	289	247	213	201	38	6	313	373	286	16	8,5	20	306	57	420	20
10/10	393	453	333	289	247	213	201	38	6	313	373	353	16	8,5	20	373	70	513	20
12/9	461	534	311	341	293	240	229	38	6	370	442	341	18	11	30	371	65	501	25
12/12	461	534	396	341	293	240	229	38	6	370	442	426	18	11	30	456	62	580	25
15/11	538	625	373	403	343	270	267	41	6	444	533	403	18	11	30	433	73,5	580	25
15/15	538	625	473	403	343	270	267	41	6	444	533	503	18	11	30	533	79,5	692	25
18/13	656	752	436	479	418	290	314	38	6	544	642	476	18	11	40	516	74,5	665	25
18/18	656	752	556	479	418	290	314	38	6	544	642	596	18	11	40	636	78	792	25



DA-RTC

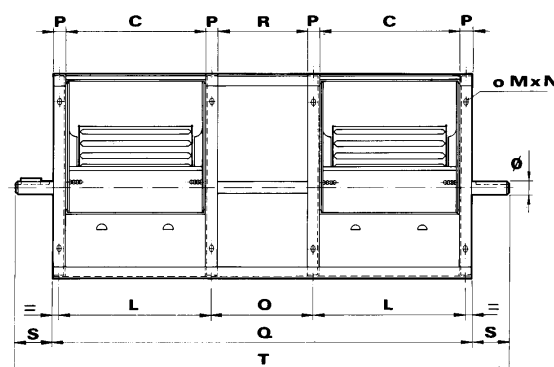
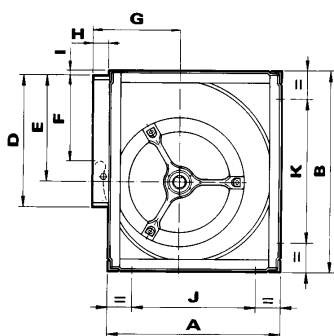
Tipo / Model type	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	S	T	Ø
7/7	288	334	232	222	180	145	146	30	6	208	254	252	16	8,5	20	272	59	390	20
9/7	350	405	232	260	218	180	184	36	6	270	323	252	16	8,5	20	272	59	390	20
9/9	350	405	300	260	218	180	184	36	6	270	323	320	16	8,5	20	340	60	460	20
10/8	393	453	266	289	247	213	201	38	6	313	373	286	16	8,5	20	306	57	420	20
10/10	393	453	333	289	247	213	201	38	6	313	373	353	16	8,5	20	373	70	513	20
12/9	461	534	311	341	293	240	229	38	6	370	442	341	18	11	30	371	65	501	25
12/12	461	534	396	341	293	240	229	38	6	370	442	426	18	11	30	456	62	580	25
15/11	538	625	373	403	343	270	267	41	6	444	533	403	18	11	30	433	73,5	580	25
15/15	538	625	473	403	343	270	267	41	6	444	533	503	18	11	30	533	79,5	692	25
18/13	656	752	436	479	418	290	314	38	6	544	642	476	18	11	40	516	74,5	665	25
18/18	656	752	556	479	418	290	314	38	6	544	642	596	18	11	40	636	78	792	25

DIMENSIONES (mm) / DIMENSIONS (mm)



DA-RTCE

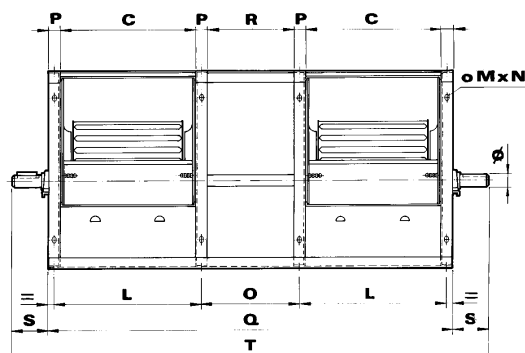
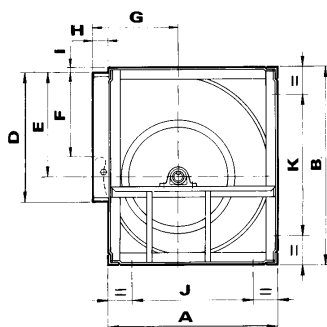
Tipo / Model type	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	S	T	Ø
7/7	288	334	232	222	180	145	146	30	6	208	254	252	16	8,5	20	272	59	390	20
9/7	350	405	232	260	218	180	184	36	6	270	323	252	16	8,5	20	272	59	390	20
9/9	350	405	300	260	218	180	184	36	6	270	323	320	16	8,5	20	340	60	460	20
10/8	393	453	266	289	247	213	201	38	6	313	373	286	16	8,5	20	306	57	420	20
10/10	393	453	333	289	247	213	201	38	6	313	373	353	16	8,5	20	373	70	513	20
12/9	461	534	311	341	293	240	229	38	6	370	442	341	18	11	30	371	65	501	25
12/12	461	534	396	341	293	240	229	38	6	370	442	426	18	11	30	456	62	580	25
15/11	538	625	373	403	343	270	267	41	6	444	533	403	18	11	30	433	73,5	580	25
15/15	538	625	473	403	343	270	267	41	6	444	533	503	18	11	30	533	79,5	692	25
18/13	656	752	436	479	418	290	314	38	6	544	642	476	18	11	40	516	74,5	665	25
18/18	656	752	556	479	418	290	314	38	6	544	642	596	18	11	40	636	78	792	25
20/20	772	967	630	630	526	340	361	50	50	635	830	680	20	13	50	730	85	900	35
22/22	853	1.058	695	700	580	390	397	55,5	50	710	916	745	20	13	50	795	82,5	960	35
25/25	950	1.193	796	800	651	430	436	55,5	50	813	1.056	846	20	13	50	896	82	1.060	35
30/28	1.145	1.410	870	945	759	485	512	55	50	1.016	1.273	920	20	13	50	970	115	1.200	40



DA-R2TC

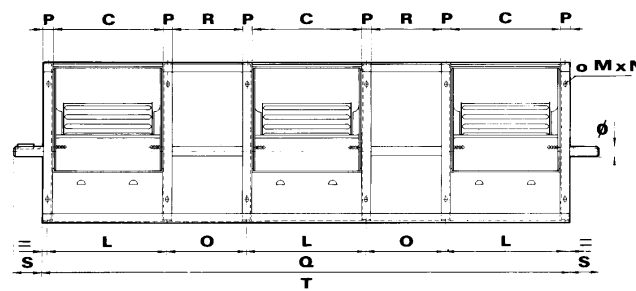
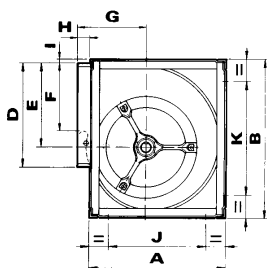
Tipo / Model type	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	Ø
7/7	288	334	232	222	180	145	146	30	6	208	254	252	16	8,5	160	20	684	140	86	856	20
9/7	350	405	232	260	218	180	184	36	6	270	323	252	16	8,5	160	20	684	140	86	856	20
9/9	350	405	300	260	218	180	184	36	6	270	323	320	16	8,5	216	20	876	196	85	1.046	20
10/8	393	453	266	289	247	213	201	38	6	313	373	286	16	8,5	186	20	778	166	86	950	20
10/10	393	453	333	289	247	213	201	38	6	313	373	353	16	8,5	238	20	964	218	68	1.100	20
12/9	461	534	311	341	293	240	229	38	6	370	442	341	18	11	204	30	916	174	75	1.066	25
12/12	461	534	396	341	293	240	229	38	6	370	442	426	18	11	284	30	1.166	254	70	1.306	25
15/11	538	625	373	403	343	270	267	41	6	444	533	403	18	11	257	30	1.093	227	75	1.243	25
15/15	538	625	473	403	343	270	267	41	6	444	533	503	18	11	351	30	1.387	321	75	1.537	25
18/13	656	752	436	479	418	290	314	38	6	544	642	476	18	11	288	40	1.280	248	70	1.420	25
18/18	656	752	556	479	418	290	314	38	6	544	642	596	18	11	416	40	1.648	376	91	1.830	25

DIMENSIONES (mm) / DIMENSIONS (mm)



DA-R2TCE

Tipo / Model type	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	Ø
9/7	350	405	232	260	218	180	184	36	6	270	323	252	16	8,5	160	20	684	140	101	856	30
9/9	350	405	300	260	218	180	184	36	6	270	323	320	16	8,5	216	20	876	196	100	1.076	30
10/8	393	453	266	289	247	213	201	38	6	313	373	286	16	8,5	186	20	778	166	101	980	30
10/10	393	453	333	289	247	213	201	38	6	313	373	353	16	8,5	238	20	964	218	83	1.130	30
12/9	461	534	311	341	293	240	229	38	6	370	442	341	18	11	204	30	916	174	90	1.096	35
12/12	461	534	396	341	293	240	229	38	6	370	442	426	18	11	284	30	1.166	254	85	1.336	35
15/11	538	625	373	403	343	270	267	41	6	444	533	403	18	11	257	30	1.093	227	107	1.307	35
15/15	538	625	473	403	343	270	267	41	6	444	533	503	18	11	351	30	1.387	321	90	1.567	35
18/13	656	752	436	479	418	290	314	38	6	544	642	476	18	11	288	40	1.280	248	70	1.420	40
18/18	656	752	556	479	418	290	314	38	6	544	642	596	18	11	416	40	1.648	376	91	1.830	40
20/20	772	967	630	630	576	340	361	50	50	635	830	680	20	13	460	50	1.870	410	126	2.122	50
22/22	853	1.058	695	700	580	390	397	55,5	50	710	916	745	20	13	520	50	2.060	470	126	2.312	50
25/25	950	1.193	796	800	651	430	436	55,5	50	813	1.056	846	20	13	506	50	2.248	456	126	2.500	50
30/28	1.145	1.410	870	945	759	485	512	55	50	1.016	1.273	920	20	13	660	50	2.548	610	126	2.800	50



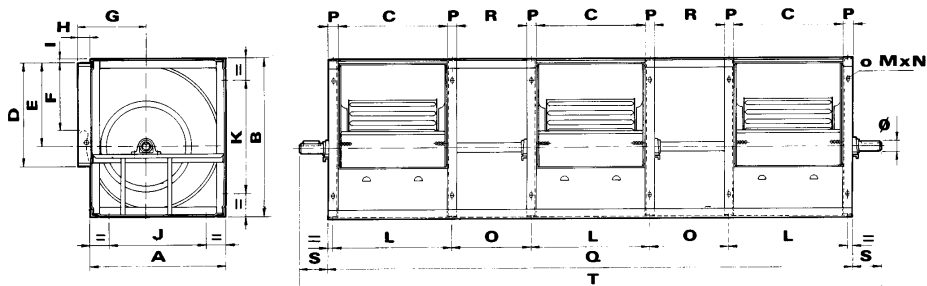
DA-R3TC

Tipo / Model type	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	Ø
9/7	350	405	232	260	218	180	184	36	6	270	323	252	16	8,5	160	20	1.096	140	100	1.296	20
9/9	350	405	300	260	218	180	184	36	6	270	323	320	16	8,5	216	20	1.412	196	100	1.612	20
10/8	393	453	266	289	247	213	201	38	6	313	373	286	16	8,5	186	20	1.250	166	100	1.450	20
10/10	393	453	333	289	247	213	201	38	6	313	373	353	16	8,5	238	20	1.555	218	100	1.755	20
12/9	461	534	311	341	293	240	229	38	6	370	442	341	18	11	204	30	1.461	174	100	1.661	25
12/12	461	534	396	341	293	240	229	38	6	370	442	426	18	11	284	30	1.876	254	100	2.076	25
15/11	538	625	373	403	343	270	267	41	6	444	533	403	18	11	257	30	1.753	227	120	1.993	25
15/15	538	625	473	403	343	270	267	41	6	444	533	503	18	11	351	30	2.241	321	120	2.481	25
18/13	656	752	436	479	418	290	314	38	6	544	642	476	18	11	288	40	2.044	248	120	2.284	25
18/18	656	752	556	479	418	290	314	38	6	544	642	596	18	11	416	40	2.660	376	120	2.900	25

DIMENSIONES (mm) / DIMENSIONS (mm)

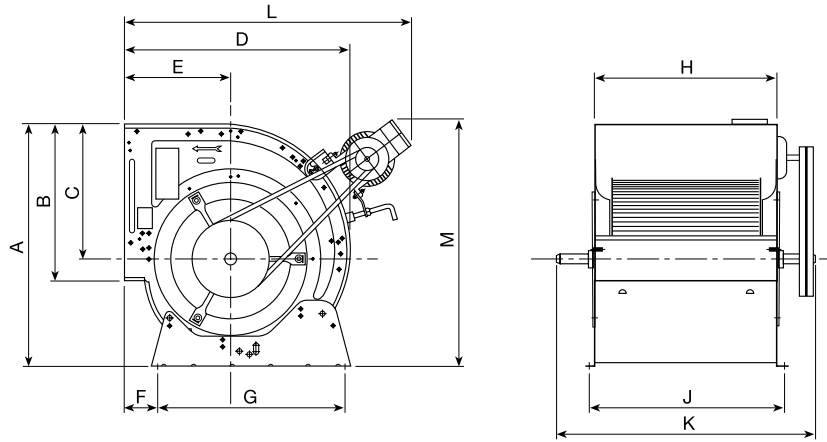


DA-R₃TCE



Tipo / Model type	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	Ø
9/7	350	405	232	260	218	180	184	36	6	270	323	252	16	8,5	160	20	1.096	140	100	1.296	30
9/9	350	405	300	260	218	180	184	36	6	270	323	320	16	8,5	216	20	1.412	196	100	1.612	30
10/8	393	453	266	289	247	213	201	38	6	313	373	286	16	8,5	186	20	1.250	166	100	1.450	30
10/10	393	453	333	289	247	213	201	38	6	313	373	353	16	8,5	238	20	1.555	218	100	1.755	30
12/9	461	534	311	341	293	240	229	38	6	370	442	341	18	11	204	30	1.461	174	100	1.661	35
12/12	461	534	396	341	293	240	229	38	6	370	442	426	18	11	284	30	1.876	254	100	2.076	35
15/11	538	625	373	403	343	270	267	41	6	444	533	403	18	11	257	30	1.753	227	120	1.993	35
15/15	538	625	473	403	343	270	267	41	6	444	533	503	18	11	351	30	2.241	321	120	2.481	35
18/13	656	752	436	479	418	290	314	38	6	544	642	476	18	11	288	40	2.044	248	120	2.284	40
18/18	656	752	556	479	418	290	314	38	6	544	642	596	18	11	416	40	2.660	376	120	2.900	40
20/20	772	967	630	630	576	340	361	50	50	635	830	680	20	13	460	50	3.010	410	125	3.260	50
22/22	853	1.058	695	700	580	390	397	55,5	50	710	916	745	20	13	520	50	3.325	470	125	3.575	50
25/25	950	1.193	796	800	651	430	436	55,5	50	813	1.056	846	20	13	506	50	3.600	456	125	3.850	50
30/28	1.145	1.410	870	945	759	485	512	55	50	1.016	1.273	920	20	13	660	50	4.130	610	125	4.380	50

DIMENSIONES (mm)/ DIMENSIONS (mm)

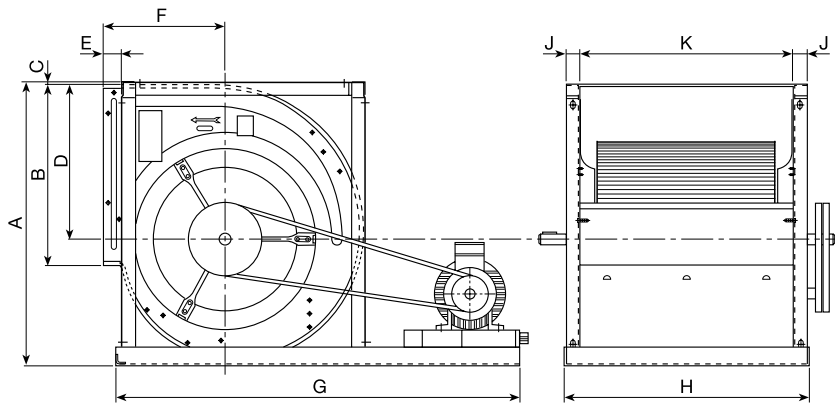


DAP-NT

Modelo/Model Type	A	B	C	D	E	F	G	H	J	K	L*	M*
7/7	328	222	180	307	146	18	227	232	259	330	480	340
9/7	395	260	218	380	184	67	297	232	259	390	525	435
9/9	395	260	218	380	184	67	297	300	327	420	525	435
10/8	448	289	247	422	201	67	339	266	293	390	585	445
10/10	448	289	247	422	201	67	339	333	360	460	585	445
12/9	530	341	293	493	229	67	407	311	338	430	625	540
12/12	530	341	293	493	229	67	407	396	423	536	625	540
15/11	624	403	343	573	267	64	494	373	400	536	770	675
15/15	624	403	343	573	267	64	494	473	500	615	770	675
18/13	753	479	418	685	314	36	608	436	463	580	850	750
18/18	753	479	418	685	314	36	608	556	583	692	850	750

* Esta cota es aproximada, depende de la posición y modelo del motor.

* This dimension is an approximation. The final dimension will depend on the position and type of motor.

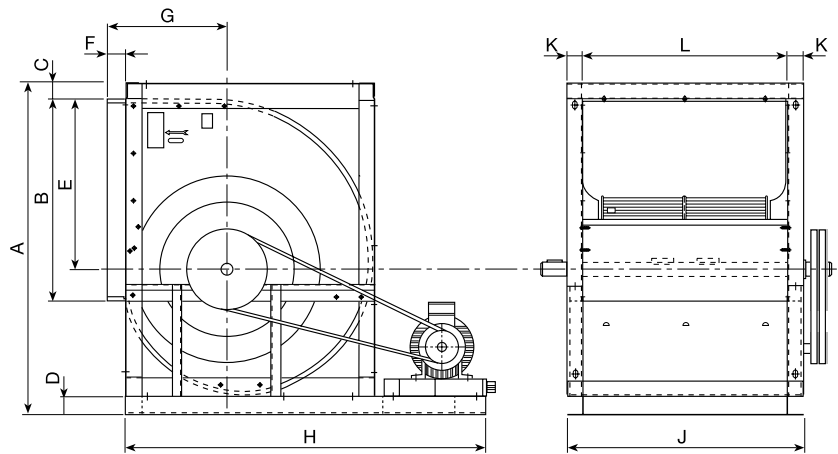


DAP-RT DAP-RTC

Modelo/Model Type	A	B	C	D	E	F	G	H	J	K
15/11	628	403	6	343	41	267	980,5	447	30	373
15/15	628	403	6	343	41	267	980,5	547	30	473
18/13	755	479	6	418	38	314	1087	528	40	436
18/18	755	479	6	418	38	314	1087	648	40	556

DAP

DIMENSIONES (mm)/ DIMENSIONS (mm)

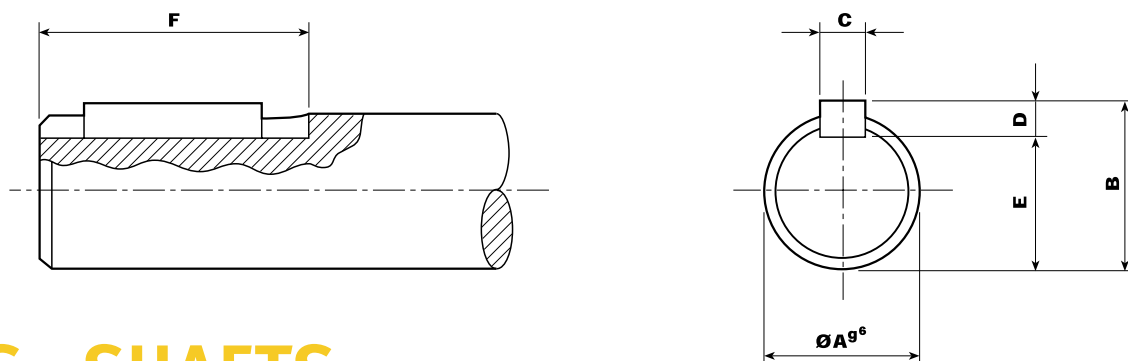


DAP-RTCE

Modelo/Model Type	A	B	C	D	E	F	G	H	J	K	L
20/20	970	630	50	60	526	50	361	1120	730	50	630
22/22	1061	700	50	60	580	55.5	397	1260	795	50	695
25/25	1196	800	50	60	651	55.5	436	1392	906	50	796
30/28	1413	945	50	60	759	55	512	1693	970	50	870

DAP

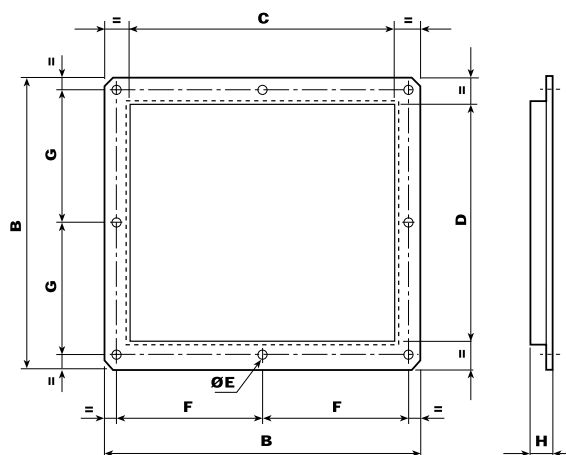
DIMENSIONES (mm)/ DIMENSIONS (mm)



EJES - SHAFTS

ØA	B	C	D	E	F
20	22,5	6	6	16,5	35-55
25	28	8	7	21	35-45-50-55
30	33	8	7	26	55
35	38	10	8	30	55
40	43	12	8	35	55
50					95

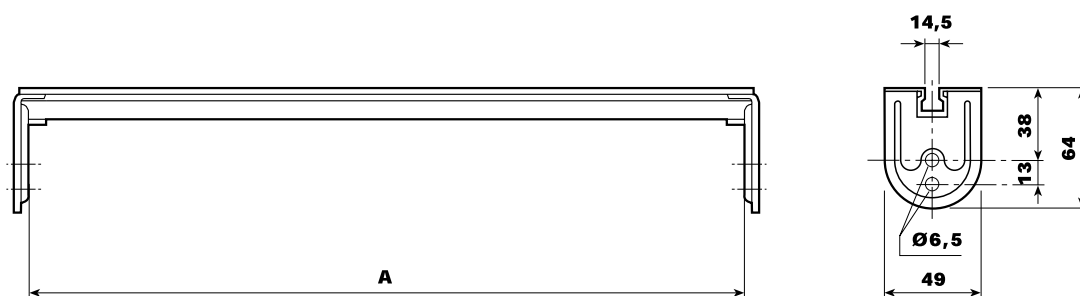
Tolerancia y materiales según DIN 6885 y 6880
Tolerance and material in accordance with DIN 6885 and 6880



BRIDAS COUPLING FLANGES

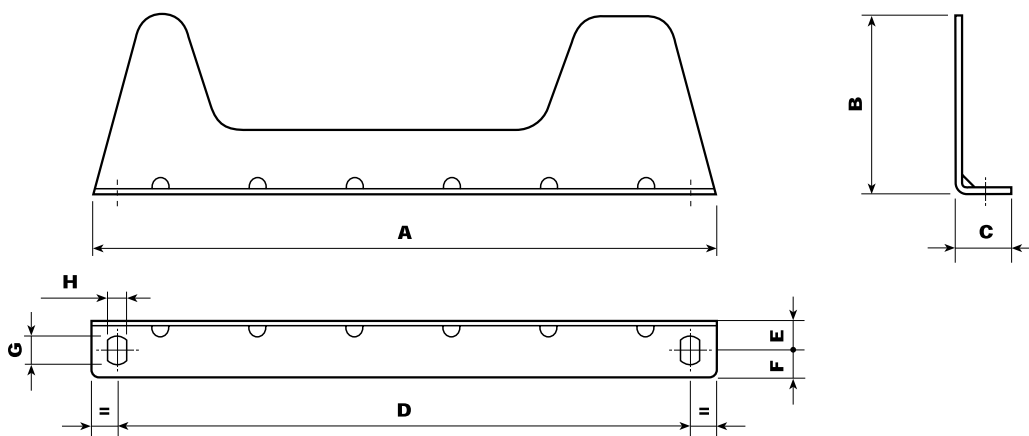
MODELO	A	B	C	D	E	F	G	H
7/7	273	262	225	215	5	112,6	121	15
7/9	340	249	292	202	5	160	114,5	15
9/7	273	300	225	253	5	126,5	140	15
9/9	340	300	292	253	5	160	140	15
10/8	317	340	260	282	5	146,5	158	15
10/10	383	340	326	282	5	179,5	158	15
12,9	365	395	304	333	5	170,5	187	15
12/12	450	395	388	333	5	213	187	15
15/11	430	458	365	395	5	205	217	15
15/15	526	460	465	395	5	251	218	15
18/13	498	544	428	474	5	234	257	15
18/18	618	544	548	474	5	294	257	15

DIMENSIONES (mm)/ DIMENSIONS (mm)



SOPORTES MOTOR - MOTOR BRACKETS

MODELO	A	MODELO	A
7/7	232	12/12	396
9/7	232	15/11	373
9/9	300	15/15	473
10/8	266	18/13	436
10/10	333	18/18	556
12/9	311		



PIES SOPORTE - BASE MOUNTINGS

MODELO	A	B	C	D	E	F	G	H
7/	254	47	26	227	13,5	12,5	16	10,5
9/	325	102	26	297	13,5	12,5	16	11
10/	363	102	26	339	13,5	12,5	16	10,5
12/	434	144	26	407	13,5	12,5	16	10,5
15/	521	164	26	494	13,5	12,5	16	10,5
18/	635	186	26	608	13,5	12,5	16	10,5