

DISEÑO

Auto limitante de potencia – carga límite
Rotores con aspas rectas atrasadas y tipo airfoil
CAT - Entrada sencilla
CATD - entrada doble
Tamaños de 14" a 48" de succión
Capacidad de 400 a 60,000 cfm
Presión hasta 12" c.a. STD

APLICACIONES

- Manejadoras de aire.
- Aire acondicionado, calefacción, refrigeración industrial.
- Secadores industriales, silos, invernaderos, estacionamientos.
- Presurización de naves.
- Campanas de laboratorios, cocinas
- Cabinas de pintura

ACCESORIOS

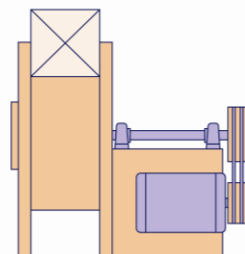
Cople para drenaje
Registro de inspección
Brida en succión
Brida en descarga
Junta flexible en succión
Junta flexible en descarga
Guarda bandas, Guarda flechas, Guarda cople
Guardas diseño OSHA
Base de canal
Rieles tensores
Compuerta de aspas
Compuerta de aspas variables VIV
Construcción alta temperatura 450F
Construcción alta temperatura 700F
Construcción a prueba de chispas – tipo A, B, C
Amortiguadores de vibración
Silenciadores en succión y descarga

MATERIALES

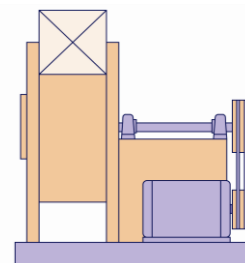
Acero al carbón, acero inoxidable 304 y 316
Pinturas especiales



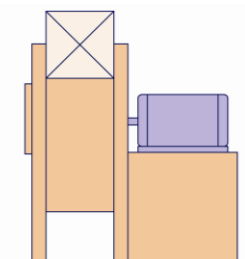
ARREGLO 9
TRANSMISION POLEAS Y BANDAS
Motor montado sobre la base del Ventilador con rieles tensores



ARREGLO 1 – BASE DE CANAL
TRANSMISION POLEAS Y BANDAS
Ventilador y motor montado sobre una base integral con rieles tensores

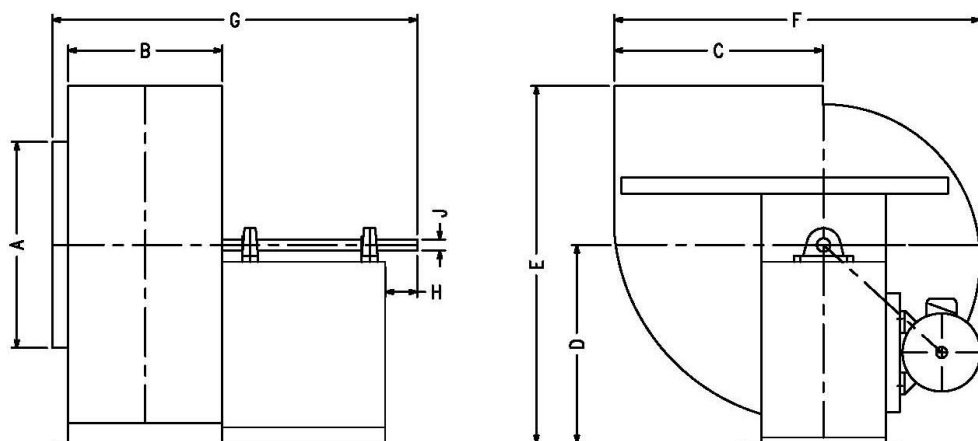


ARREGLO 4
TRANSMISION DIRECTA
Motor acoplado directamente

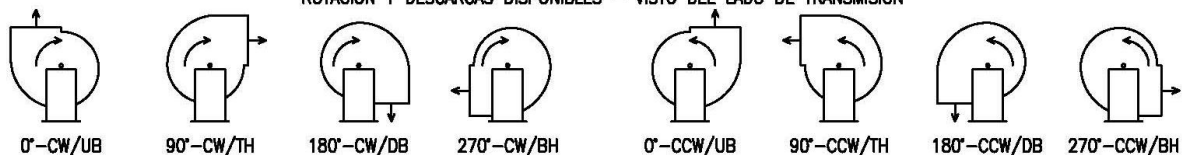


MODELO CAT - CATD

VENTILADOR CENTRIFUGO BAJA PRESION



ROTACION Y DESCARGAS DISPONIBLES - VISTO DEL LADO DE TRANSMISION

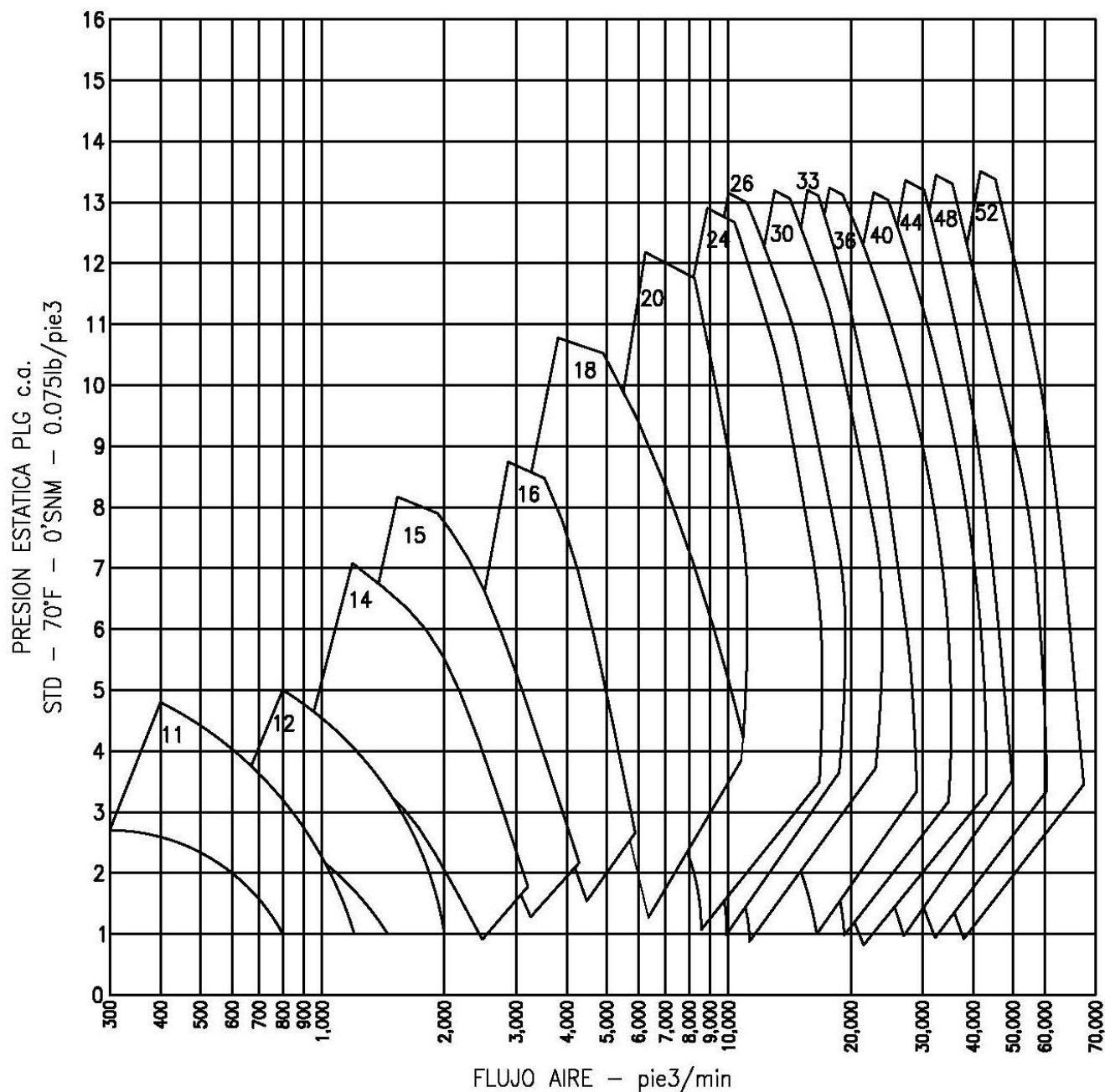


DIMENSIONES EN PLG - SUJETAS A CAMBIO SIN PREVIO AVISO

									CL 1	CL 2	CL 3
TAMAÑO	A	B	C	D	E	F	G	H	J	J	J
CAT-11	11	8	10 9/16	13	21 3/8	18 11/16	24 9/16	2	1 3/16	—	—
CAT-12	12	8 3/4	11 9/16	14 1/4	23 1/4	20 3/8	26 3/4	2	1 3/16	—	—
CAT-14	14	9 3/4	13	18	28 1/4	23	30	2 3/4	1 3/16	1 3/16	1 11/16
CAT-15	15	10 11/16	14 5/16	18	29 1/4	25 5-16	31	2 3/4	1 3/16	1 3/16	1 11/16
CAT-16	16	11 7/8	15 7/8	18	30 1/2	28	32 3/16	2 3/4	1 3/16	1 3/16	1 11/16
CAT-18	18	13	17 1/2	21 1/2	35 1/4	30 3/4	36 3/4	3 1/2	1 3/16	1 7/16	1 11/16
CAT-20	20	14 9/16	19 5/16	21 1/2	36	34	38 3/16	3 1/2	1 3/16	1 7/16	1 15/16
CAT-22	22	16	21 1/8	23 1/2	39 1/8	37	39 1/2	3 1/2	1 3/16	1 7/16	1 15/16
CAT-24	24	17 11/16	23 1/2	23 1/2	41	41 1/2	49 13/16	4	1 7/16	1 11/16	1 15/16
CAT-26	26	19 7/16	25 7/8	23 1/2	42 3/4	45 3/16	48 1/2	4	1 7/16	1 11/16	2 3/16
CAT-30	30	21 7/16	28 1/2	24 3/4	46 5/8	49 11/16	50 5/8	4	1 7/16	1 11/16	2 3/16
CAT-33	33	23 3/4	31 11/16	27	50 3/4	55 1/2	62 1/4	5	1 11/16	1 15/16	2 7/16
CAT-36	36	26 1/8	34 13/16	30	56 3/4	60 13/16	64 5/8	5	1 11/16	1 15/16	2 11/16
CAT-40	40	28 7/8	38 1/2	33	62 1/4	67 3/16	67 3/8	5	1 15/16	2 3/16	2 11/16
CAT-44	44	31 13/16	42 7/16	36 1/2	68 3/4	74	74 1/8	6	1 15/16	2 7/16	2 15/16
CAT-48	48	35 1/8	46 7/8	40	73 3/4	81 1/2	77 3/8	6	2 3/16	2 7/16	3 7/16
CAT-52	52	38 11/16	51 5/8	44	81 1/4	89 13/16	86 1/2	7	2 7/16	2 11/16	3 7/16

MODELO CAT - CATD

VENTILADOR CENTRIFUGO BAJA PRESION



VENTILADORES CENTRIFUGOS

CAT - CATD

Ventilador centrífugo de baja presión
Diseño de alta eficiencia
Auto limitante de potencia – carga límite
Rotores con aspas rectas atrasadas y tipo airfoil
CAT - Entrada sencilla
CATD - entrada doble
Tamaños de 14" a 48" de succión
Capacidad de 400 a 60,000 cfm
Presión hasta 12" c.a. STD



CRC – CRA - CRH

Ventilador centrífugo de mediana presión
Rotores con aspas radiales auto limpiables
CRC - rotor cerrado
CRA - rotor abierto
Tamaños de 7" a 50" de succión
Capacidad de 500 a 55,000 cfm
Presión hasta 40" c.a. STD



CT - CTA

Turboventilador centrífugo de alta presión
Rotores con aspas radiales auto limpiables
CT - rotor cerrado
CTA - rotor abierto
Tamaños de 4" a 14" de succión
Capacidad de 150 a 5,000 cfm
Presión hasta 50" c.a. STD



VENTILADORES AXIALES

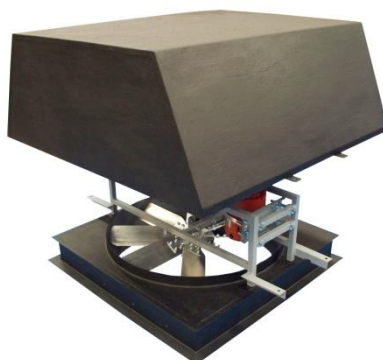
AXM

Ventilador axial para montaje en muro
Tamaños de 24" a 54" de aspa
Capacidad de 2,500 a 40,000 cfm
Presión hasta 1" c.a. STD



AXT

Ventilador axial para montaje en techo
Tamaños de 24" a 54" de aspa
Capacidad de 9,000 a 50,000 cfm
Presión hasta 2" c.a. STD

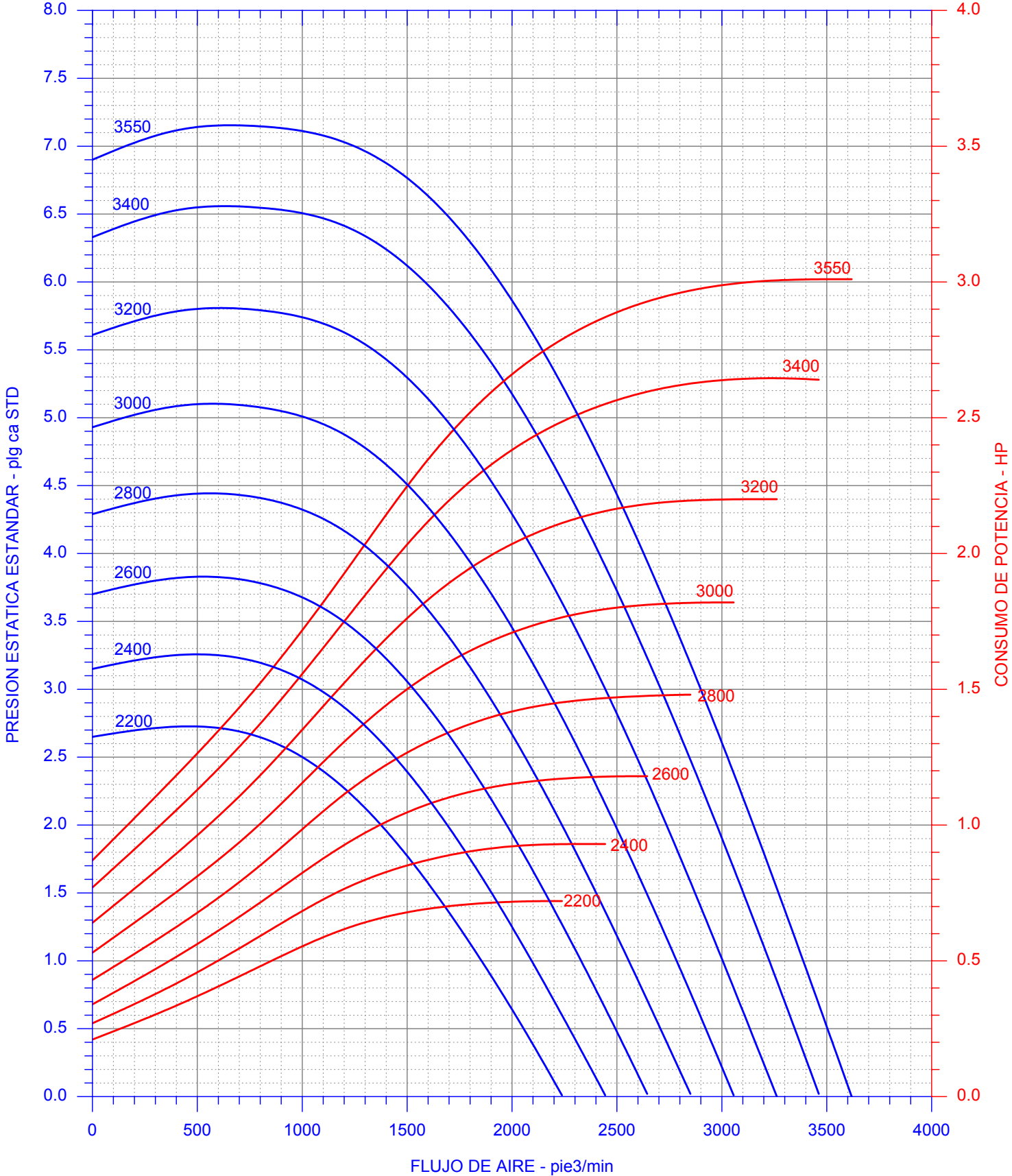


AXD – AXV - AXP

Ventilador axial para montaje en ducto
Tamaños de 18" a 54" de aspa
AXD – Tuboaxial - AXV - Venoaxial
AXP- Tuboaxial portatil
Capacidad de 3,500 a 50,000 cfm
Presión hasta 2" c.a. STD



airtec - CAT 14
DENSIDAD ESTANDAR - d=0.075 lb/pie3 - 0°SNM - 70°F



Performance Curves for the 1000 Series Vane Axial Compressor

The graph displays the relationship between Air Flow (FLUJO DE AIRE - pie³/min) on the X-axis and two other variables:

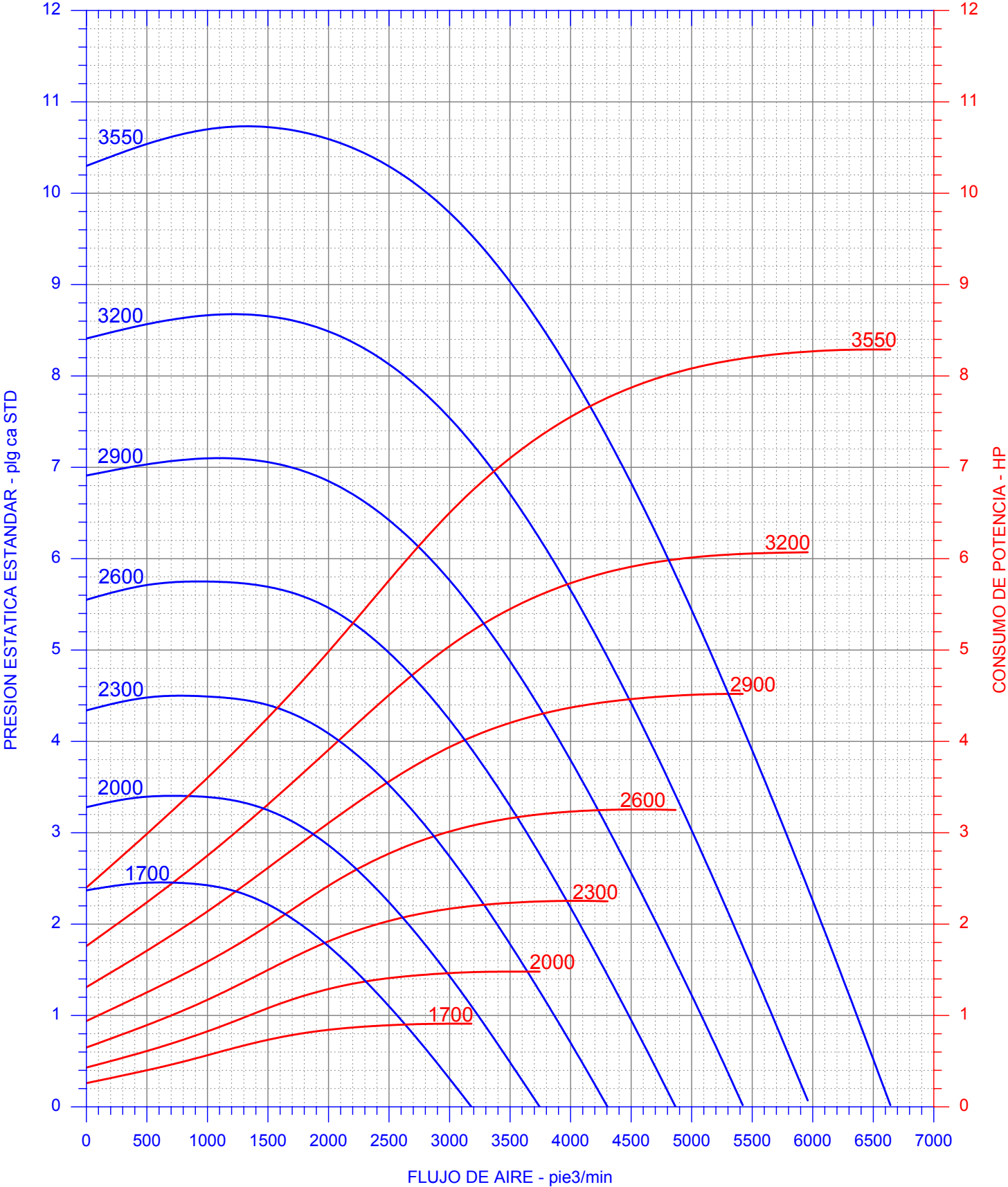
- Static Pressure (PRESION ESTATICA ESTANDAR - plg ca STD):** Represented by the left Y-axis (0 to 12) and blue curves.
- Power Consumption (CONSUMO DE POTENCIA - HP):** Represented by the right Y-axis (0.0 to 6.0) and red curves.

The curves are labeled with their corresponding speed settings (RPM):

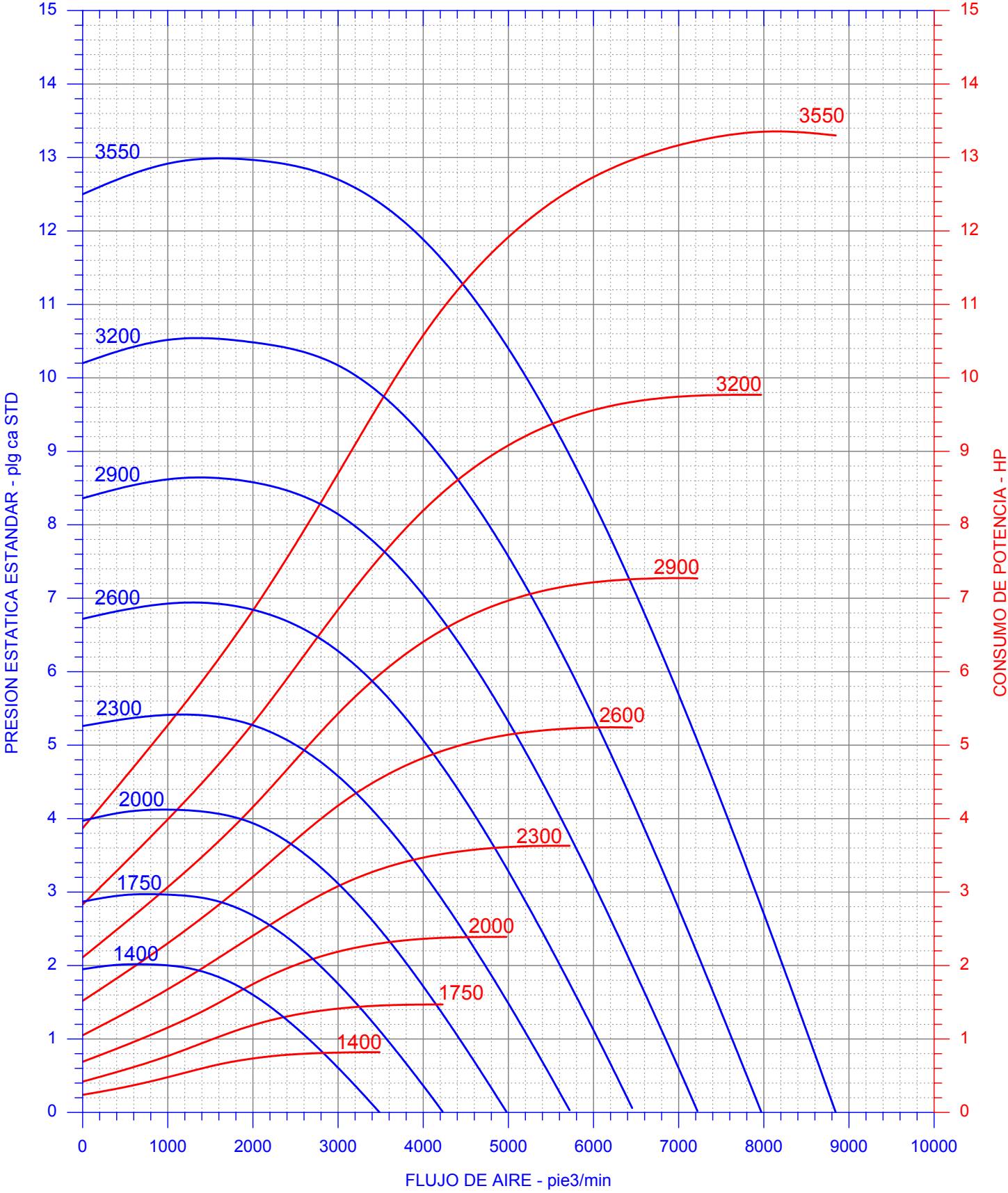
- Static Pressure Curves (Blue):** 3550, 3200, 2900, 2600, 2300, 2000, 1700.
- Power Consumption Curves (Red):** 3550, 3200, 2900, 2600, 2300, 2000, 1700.

The graph shows that as the air flow increases, the static pressure initially rises to a peak and then declines. Simultaneously, the power consumption increases steadily with the air flow.

airtec - CAT 16
DENSIDAD ESTANDAR - d=0.075 lb/pie3 - 0'SNM - 70°F



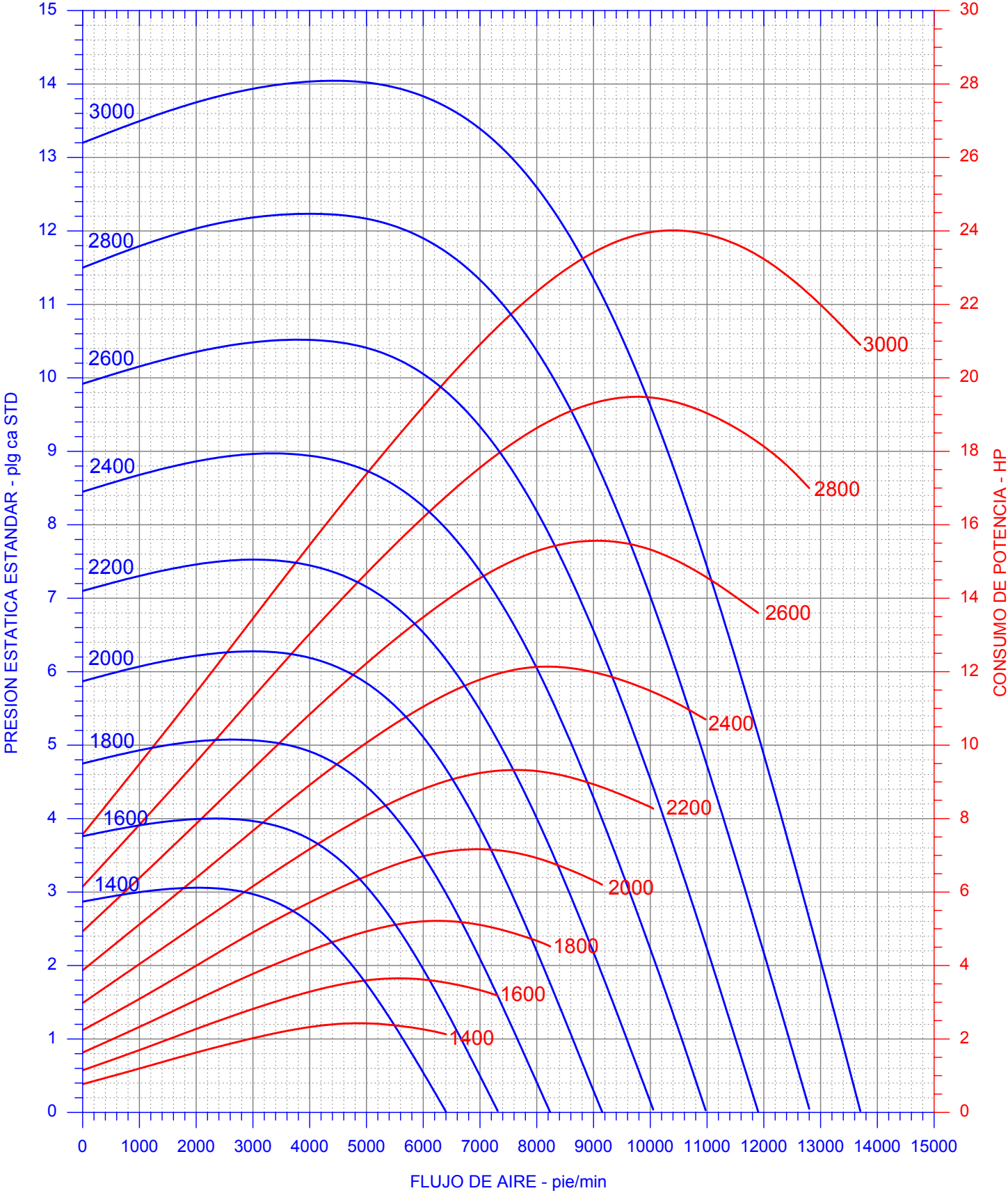
airtec - CAT 18
DENSIDAD ESTANDAR - d=0.075 lb/pie3 - 0°SNM - 70°F



The graph displays the performance of the 1000 Series Compressor across a range of air flow rates (0 to 12,000 pie³/min) and standard static pressures (0 to 15 plg ca STD). The curves are categorized by horsepower (HP) ratings, with blue lines for 1400, 1700, 2000, 2300, 2600, 2900, and 3200 HP, and red lines for 1400, 1700, 2000, 2300, 2600, 2900, and 3200 HP. The curves show that as the air flow rate increases, the standard static pressure also increases, with higher horsepower ratings generally resulting in higher static pressures at any given flow rate.

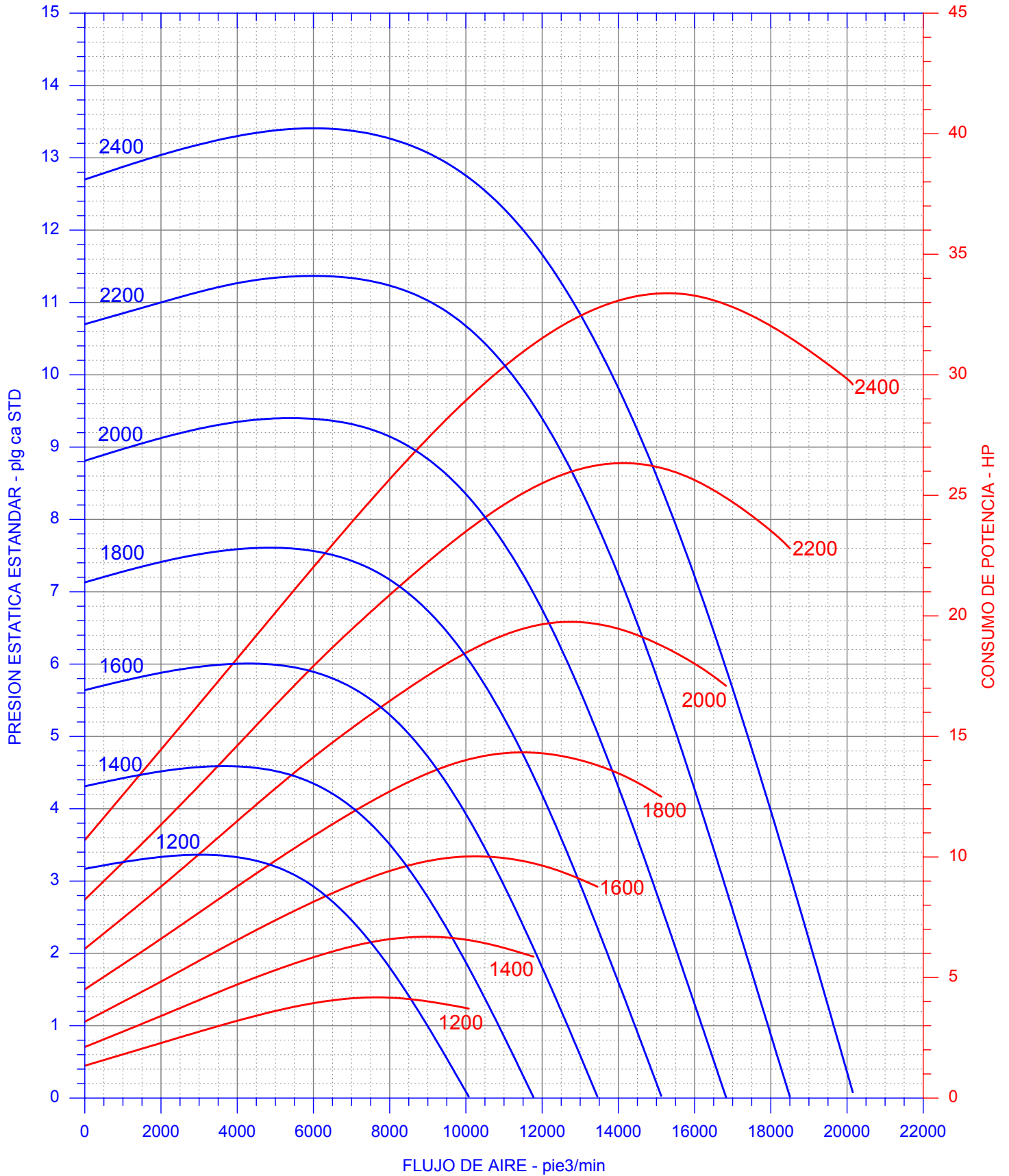
FLUJO DE AIRE - pie ³ /min	1400 HP (Blue)	1700 HP (Blue)	2000 HP (Blue)	2300 HP (Blue)	2600 HP (Blue)	2900 HP (Blue)	3200 HP (Blue)	1400 HP (Red)	1700 HP (Red)	2000 HP (Red)	2300 HP (Red)	2600 HP (Red)	2900 HP (Red)	3200 HP (Red)
0	0.2	0.5	0.8	1.1	1.5	2.0	2.5	0.2	0.5	0.8	1.1	1.5	2.0	2.5
1000	0.4	0.7	1.0	1.3	1.7	2.2	2.7	0.4	0.7	1.0	1.3	1.7	2.2	2.7
2000	0.6	0.9	1.2	1.5	1.9	2.4	2.9	0.6	0.9	1.2	1.5	1.9	2.4	2.9
3000	0.8	1.1	1.4	1.7	2.1	2.6	3.1	0.8	1.1	1.4	1.7	2.1	2.6	3.1
4000	1.0	1.3	1.6	1.9	2.3	2.8	3.3	1.0	1.3	1.6	1.9	2.3	2.8	3.3
5000	1.2	1.5	1.8	2.1	2.5	3.0	3.5	1.2	1.5	1.8	2.1	2.5	3.0	3.5
6000	1.4	1.7	2.0	2.3	2.7	3.2	3.7	1.4	1.7	2.0	2.3	2.7	3.2	3.7
7000	1.6	1.9	2.2	2.5	2.9	3.4	3.9	1.6	1.9	2.2	2.5	2.9	3.4	3.9
8000	1.8	2.1	2.4	2.7	3.1	3.6	4.1	1.8	2.1	2.4	2.7	3.1	3.6	4.1
9000	2.0	2.3	2.6	2.9	3.3	3.8	4.3	2.0	2.3	2.6	2.9	3.3	3.8	4.3
10000	2.2	2.5	2.8	3.1	3.5	4.0	4.5	2.2	2.5	2.8	3.1	3.5	4.0	4.5
11000	2.4	2.7	3.0	3.3	3.7	4.2	4.7	2.4	2.7	3.0	3.3	3.7	4.2	4.7
12000	2.6	2.9	3.2	3.5	3.9	4.4	4.9	2.6	2.9	3.2	3.5	3.9	4.4	4.9

airtec - CAT 22
DENSIDAD ESTANDAR - d=0.075 lb/pie3 - 0'SNM - 70°F

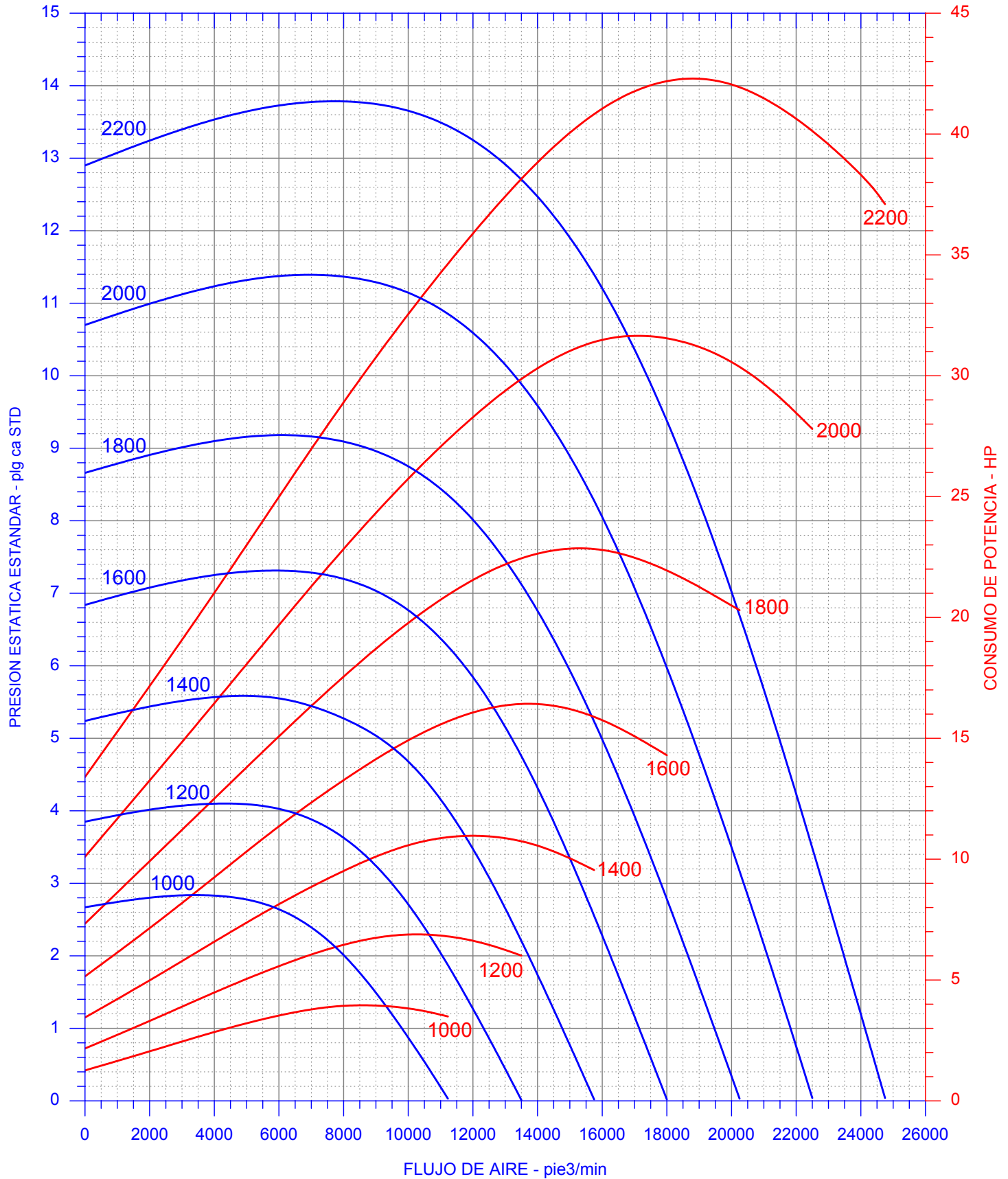


Performance curves for the 1000 Series Compressor. The graph plots Standard Static Pressure (inlet to outlet) in psig on the left y-axis (0 to 15) and Standard Power Consumption in HP on the right y-axis (0 to 30) against Air Flow in cfm on the x-axis (0 to 18,000). Blue curves represent static pressure for various RPMs (1400, 1600, 1800, 2000, 2200, 2400, 2600). Red curves represent power consumption for the same RPMs. The curves show that both pressure and power increase with RPM and then decrease as air flow increases beyond the peak.

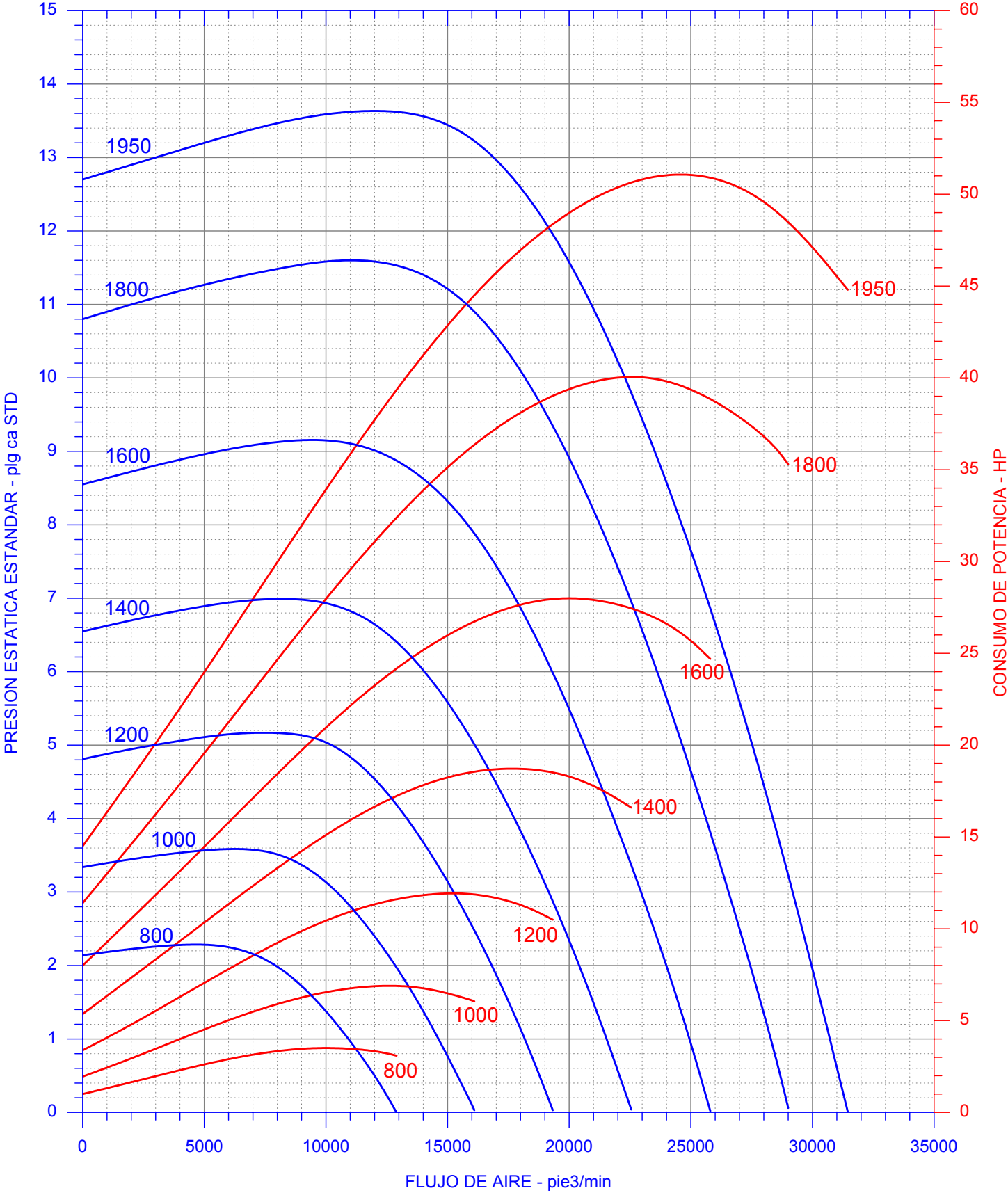
airtec - CAT 26
DENSIDAD ESTANDAR - d=0.075 lb/pie3 - 0'SNM - 70°F



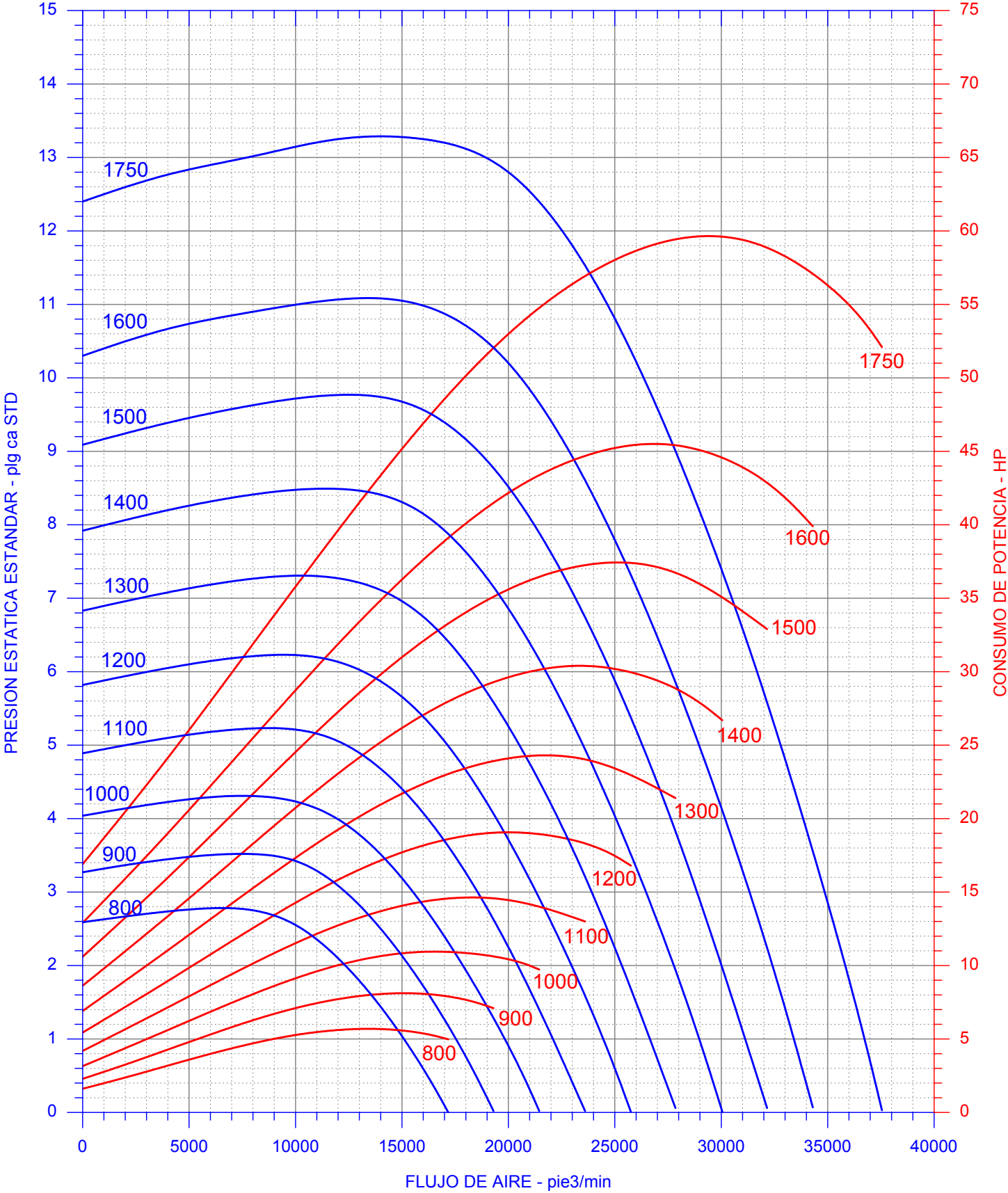
airtec - CAT 30
DENSIDAD ESTANDAR - d=0.075 lb/pie3 - 0'SNM - 70°F



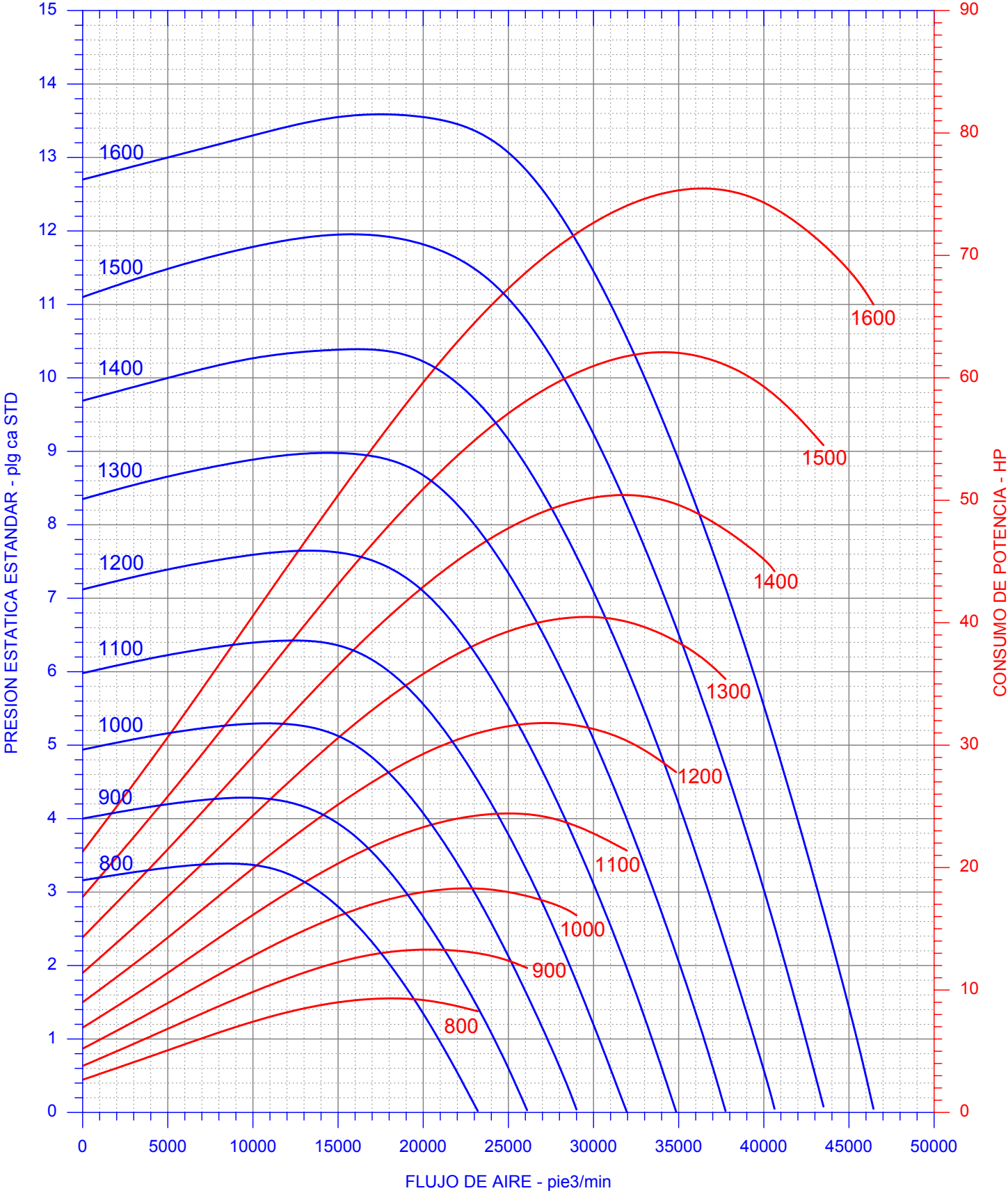
airtec - CAT 33
DENSIDAD ESTANDAR - d=0.075 lb/pie3 - 0'SNM - 70°F



airtec - CAT 36
DENSIDAD ESTANDAR - d=0.075 lb/pie3 - 0'SNM - 70°F



airtec - CAT 40
DENSIDAD ESTANDAR - d=0.075 lb/pie3 - 0'SNM - 70°F



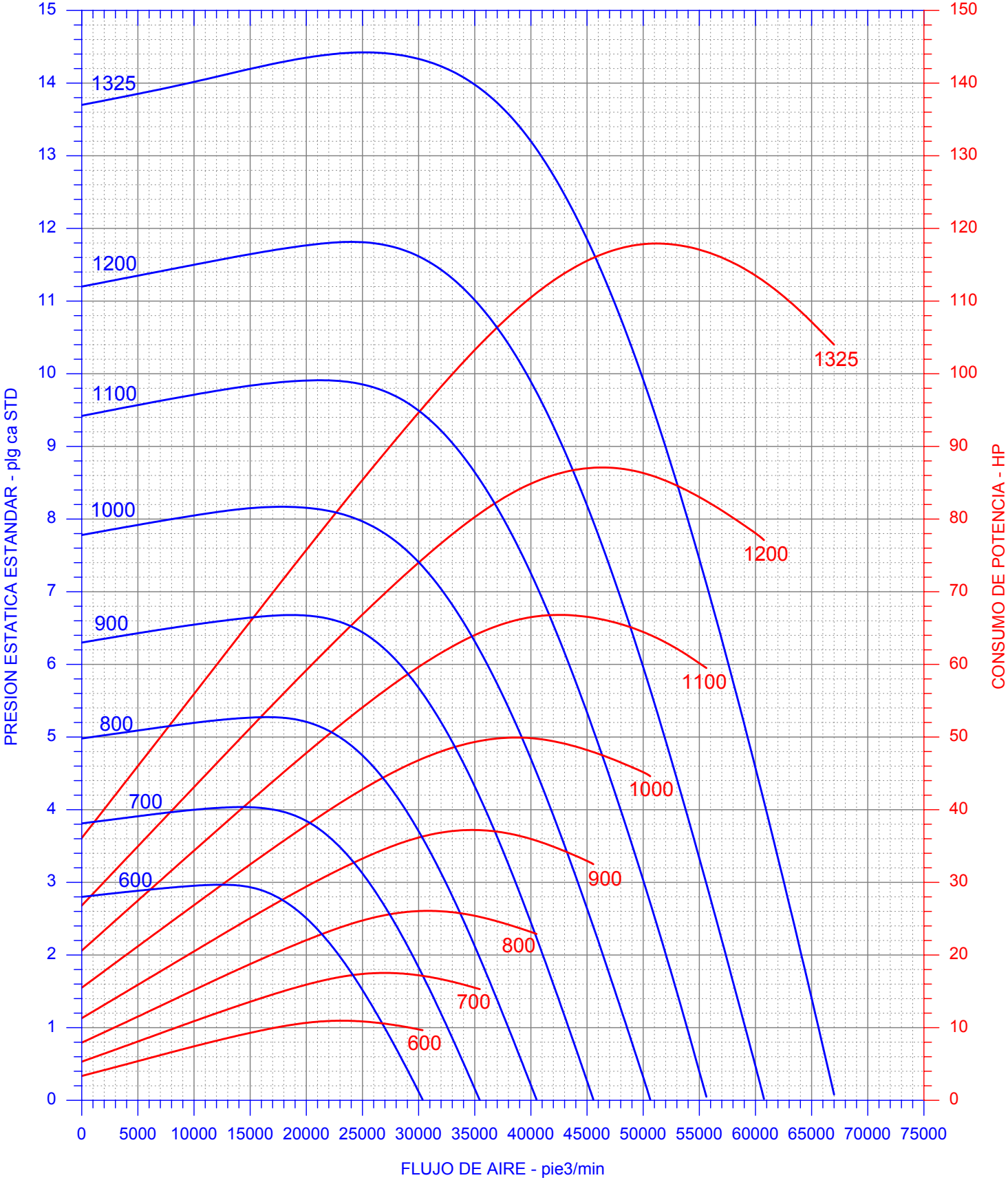
The graph illustrates the performance characteristics of a system, likely a fan or compressor, under various operating conditions. The x-axis represents the air flow rate in cubic feet per minute (pie3/min), ranging from 0 to 60,000. The left y-axis represents the standard static pressure in inches of water column (plg ca STD), ranging from 0 to 15. The right y-axis represents the power consumption in horsepower (HP), ranging from 0 to 90.

Two sets of curves are plotted:

- Blue Curves (Static Pressure):** These curves show the relationship between air flow rate and static pressure for different system resistances. The curves are labeled with values from 800 to 1400, representing the static pressure in plg ca STD. The curves generally show a peak in pressure around 20,000 pie3/min, followed by a decline.
- Red Curves (Power Consumption):** These curves show the relationship between air flow rate and power consumption for different system resistances. The curves are labeled with values from 800 to 1400, representing the power consumption in HP. The curves generally show a peak in power around 35,000 pie3/min, followed by a decline.

The graph is plotted on a grid with major lines every 5,000 pie3/min on the x-axis and every 1 unit on the left y-axis and every 10 HP on the right y-axis. The blue curves are labeled with values 800, 900, 1000, 1100, 1200, 1300, and 1400. The red curves are labeled with values 800, 900, 1000, 1100, 1200, 1300, and 1400.

airtec - CAT 48
DENSIDAD ESTANDAR - d=0.075 lb/pie3 - 0'SNM - 70°F



airtec - CAT 52
DENSIDAD ESTANDAR - d=0.075 lb/pie3 - 0'SNM - 70°F

