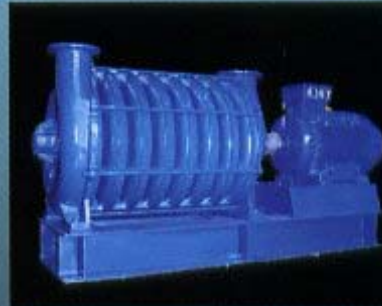
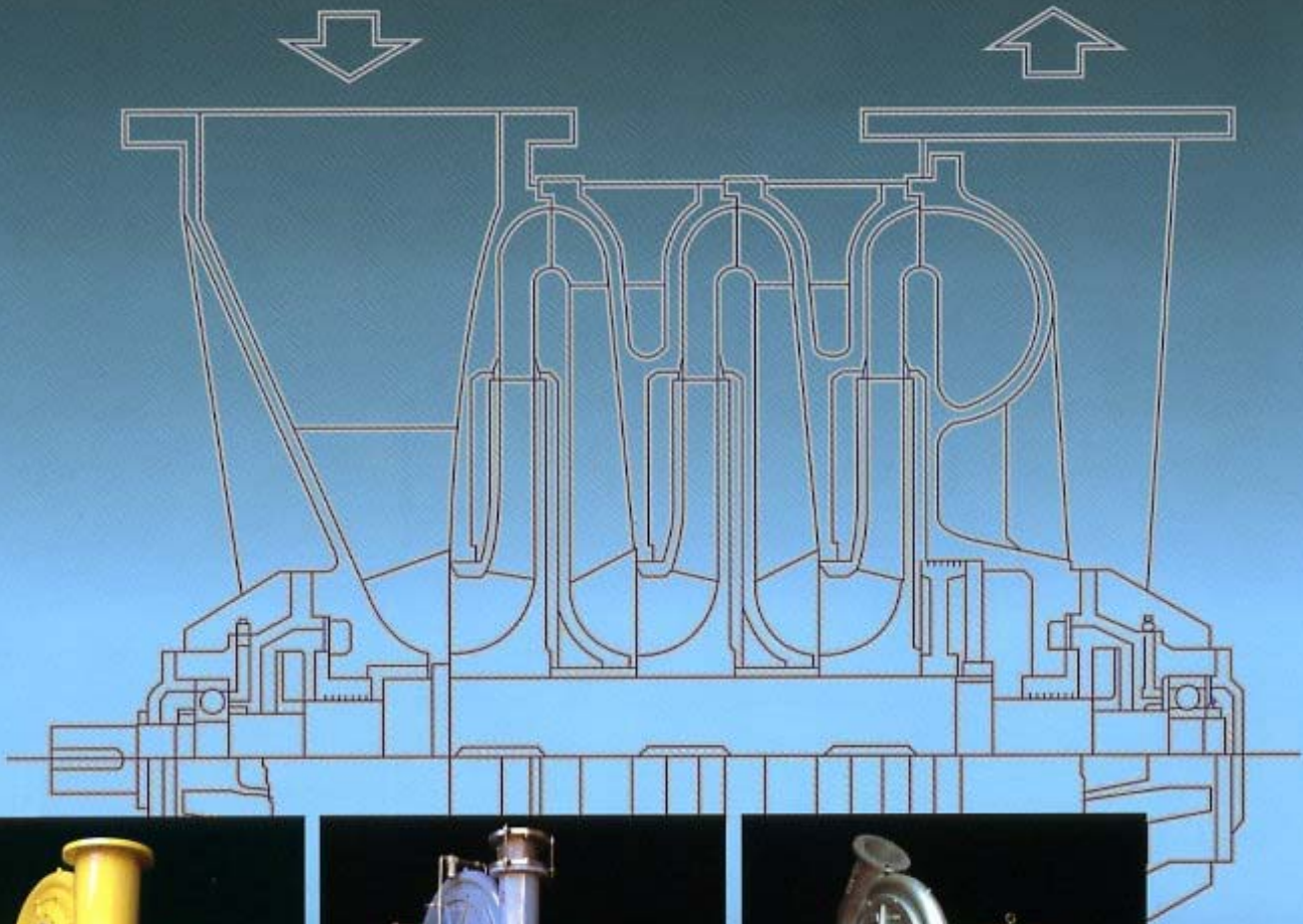


Castle Blower, Inc.



Heavy Duty

Casting Centrifugal Blower

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Unit Conversion

Pressure

	mmAq	Pa=N/m ²	daPa	mbar	psi	kgf/m ²	atm
1mmAq	1	9.8	0.98	9.807×10^{-2}	1.422×10^{-3}	1	9.677×10^{-5}
1Pa=1N/m ²	0.102	1	0.1	1×10^{-2}	1.451×10^{-4}	0.102	9.872×10^{-6}
1daPa	1.02	10	1	0.1	1.451×10^{-3}	1.02	9.872×10^{-5}
1mbar	10.2	100	10	1	1.451×10^{-2}	10.2	9.872×10^{-4}
1psi	703	6888	688.8	68.88	1	703	6.802×10^{-2}
1kgf/m ²	1	9.8	0.98	9.807×10^{-2}	1.422×10^{-3}	1	9.677×10^{-5}
1atm	10332	101300	10130	1013	14.7	10332	1

Capacity

	m ³ /min	m ³ /s	m ³ /h	ft ³ /min=cfm
1m ³ /min	1	0.017	60	35.31
1m ³ /s	60	1	3600	2118.6
1m ³ /h	0.017	2.777×10^{-4}	1	0.589
1ft ³ /min=cfm	0.0283	4.720×10^{-4}	1.699	1

Power

	HP	kW	kg-m/sec	PS
1 HP	1	0.746	76.038	1.014
1 kW	1.341	1	101.967	1.360
1 kg-m/sec	0.013	9.807×10^{-3}	1	0.013
1 PS	0.986	0.736	74.988	1

Terminology

Capacity: Capacity at inlet condition

Static pressure: Outlet pressure of blower (at inlet STP of air)

Power (HP): Motor rated required at the point of capacity and static pressure

STP: 20 °C, 1atm, RH = 65% ($\gamma=1.2\text{kg/m}^3$ for Air)

NTP: 0 °C, 1atm, RH = 0% ($\gamma=1.293\text{kg/m}^3$ for Air)

η_{max} : The highest efficiency point

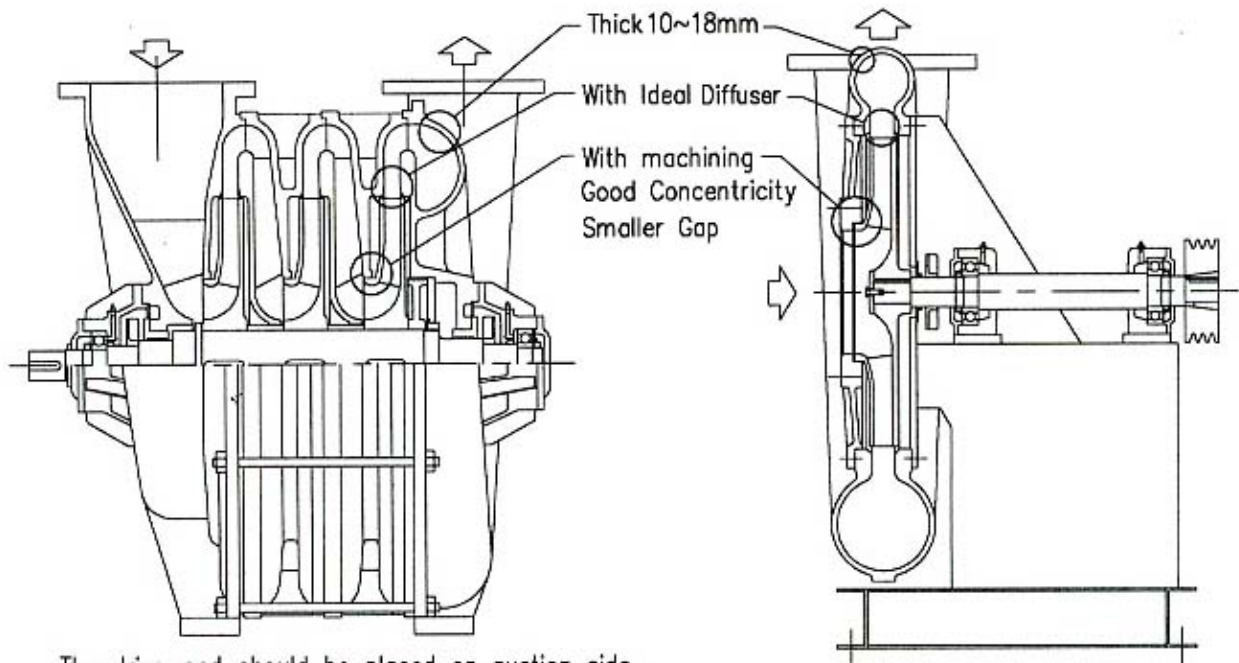
Comparison of Casting & Mild Steel Blower

Items	Mild Steel Blower	Casting Blower
Scroll	Rectangular Scroll Welded and Seamed May Leak	Circular Cone Scroll Seamless Mold Casting Gas Tight
Inlet Cone	With Big Gap, like a hole on a duct High Back-Streaming Velocity Large Leakage High Noise	With Machining Good Concentricity Small Gap and Leakage Low Noise
Diffuser	No Diffuser Gas Blow out Roughly May Back-Stream to Suction	With Diffuser Gas Blow out Smoothly No Back-Streaming
Spark Resist	Made by Steel Abrasion Produces Sparks	Casting Aluminum Impeller Spark Resistance
Impeller	Formed by Mild Steel Flow-field is limited No Labyrinth Seal Low Efficiency High Noise	Formed by Mold Casting Flow-field is broad With Labyrinth Seal High Efficiency Low Noise
Noise	Mild Steel Scroll Poor Absorption and Insulation High Noise May need Lagging	Thick Casting Scroll Good Absorption and Insulation Low Noise
Conclusion	Low Efficiency High Vibration High Noise Short Life High Running Cost	High Efficiency Low Vibration Low Noise Long Life Low Running Cost



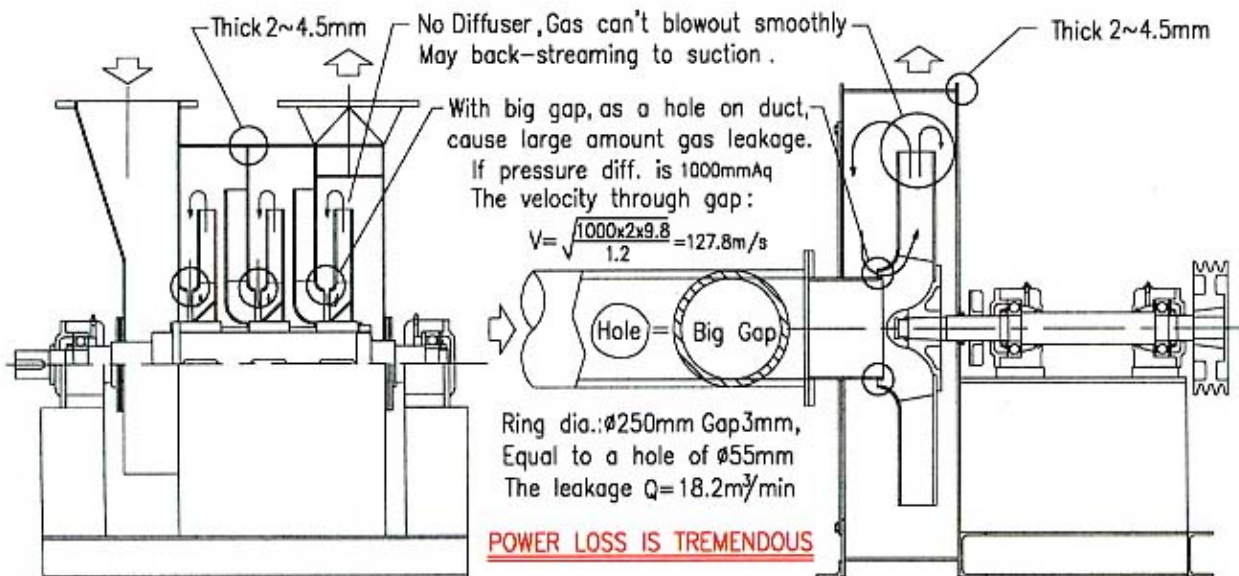
Comparison of Casting & Mild Steel Blower

CASTING BLOWER



The drive-end should be placed on suction side,
otherwise, the operating life will be shorten.

MILD STEEL BLOWER



Application and Construction

Gas Handled:

Air, High Temperature Gas, Low Temperature Gas, Waste Gas, Corrosion Gas, Toxic Gas, Flammable Gas, Explosive Gas

Material:

Impeller:

Air, Normal Gas —Aluminum Alloy - AC4C
Corrosion Gas, High Temperature Gas, Low Temperature Gas
—Austenite Stainless Steel
Ni-Cr-Fe Alloy, Ni-Cu Alloy
Ni-Mo-Fe-Cr Alloy, Ni-Si Alloy
Fe-Cr-Ni Alloy, 1.4529, A553

Casing:

Air, Normal Gas —Casting - FC25
Corrosion Gas, High Temperature Gas, Low Temperature Gas
—Casting - Austenite Stainless Steel
Ni-Cr-Fe Alloy, Ni-Cu Alloy
Ni-Mo-Fe-Cr Alloy, Ni-Si Alloy
Fe-Cr-Ni Alloy, 1.4529, LC9

Shaft:

Air, Normal Gas —Carbon Steel - S45C
Corrosion Gas, High Temperature Gas, Low Temperature Gas
—Austenite & Ferrite Stainless Steel
Ni-Cr-Fe Alloy, Ni-Cu Alloy
Ni-Mo-Fe-Cr Alloy, Ni-Si Alloy
Fe-Cr-Ni Alloy, 1.4529, LC9

Shaft Seal:

Contacting: V-Ring, Gland Packing, Carbon Ring, Mechanical Seal
Non-Contacting: Non-Contacting Mechanical Seal, Labyrinth Seal

Transmission:

Coupling Direct: TF Series, TD Series, TC Series, TB Series
V-Belt Direct: TF Series
Horizontal Motor Direct: TF Series

Vibration Levels for Blower

A. AMCA/ANSI 204-96:

『Balance Quality and Vibration Levels for Fans』

Fan Application Categories

Application	Examples	Driver Power (HP)	Fan Application Categories
Residential	Ceiling fans, attic fans, window AC.	≤ 0.2	BV-1
		> 0.2	BV-2
HVAC & Agricultural	Building ventilation and air conditioning, commercial systems	≤ 5.0	BV-2
		> 5.0	BV-3
Industrial Process & Power Generation, etc.	Baghouse, scrubber, mine, conveying, boilers, combustion air, pollution control, wind tunnels	≤ 400	BV-3
		> 400	BV-4
Transportation & Marine	Locomotives, trucks, automobiles	≤ 20	BV-3
		> 20	BV-4
Transit/Tunnel	Subway emergency ventilation, tunnel fans, garage ventilation, tunnel jet fans	≤ 100	BV-3
		> 100	BV-4
		ANY	BV-4
Petrochemical Process	Hazardous gases, process fan	≤ 50	BV-3
		> 50	BV-4
Computer Chip Manufacture	Clean room	ANY	BV-5

Balance Quality Grades

Fan Application Categories	Balance Quality for Rigid Rotors/ Impeller
BV-1	G16
BV-2	G16
BV-3	G6.3
BV-4	G2.5
BV-5	G1

Seismic Vibration Limits for Tests Conducted in the Factory

Fan Application Category	Rigidly Mounted mm/s	Flexibly Mounted mm/s
BV-1	12.7	15.2
BV-2	5.1	7.6
BV-3	3.8	5.1
BV-4	2.5	3.8
BV-5	2.0	2.5

Values shown are peak velocity, mm/s. Filter-In, at factory test speed

Seismic Vibration Limits for Tests Conducted In-Situ

Condition	Fan Application Category	Rigidly Mounted mm/s	Flexibly Mounted mm/s
Start-Up	BV-1	14.0	15.2
	BV-2	7.6	12.7
	BV-3	6.4	8.8
	BV-4	4.1	6.4
	BV-5	2.5	4.1
Alarm	BV-1	15.2	19.1
	BV-2	12.7	19.1
	BV-3	10.2	16.5
	BV-4	6.4	10.2
	BV-5	5.7	7.6
Shut-Down	BV-1	NOTE1	NOTE1
	BV-2	NOTE1	NOTE1
	BV-3	12.7	17.8
	BV-4	10.2	15.2
	BV-5	7.6	10.2

Values shown are peak velocity, mm/s. Filter-Out.

NOTE: Shutdown levels for fans in Fan Application Grades BV-1 and BV-2 must be established based on historical data.

B. JIS B8330-1981:

『送風機の試験及び検査方法』

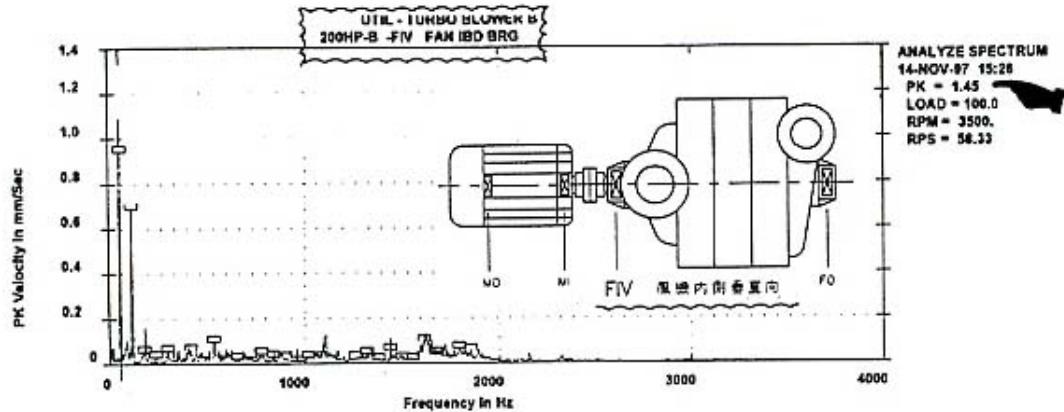
Vibration Quality Grades of Fans

Vibration Quality Grades of Fans	Excellent	Good	Passable	Unallowable
mm/s (0-P)	2.5	6.0	15	> 15

Test Report of Vibration Spectrum Analysis
from Nan Ya Plastics Corporation, Formosa Plastics Group

Standard: Equipment Inspection and Acceptance - Fan/Blower #UEA01

Item: Vibration of fan/blower and bearings (0-P, OVERALL, and all bands)



LIST OF SPECTRAL PEAKS

Machine: (UTIL) TURBO BLOWER B
 Meas. Point: 200HP-B -FIV --> FAN IBD BRG
 Date/Time: 14-NOV-97 15:26:58 RPM= 3500. Units=mm/Sec PK

PEAK NO.	FREQUENCY (Hz)	PEAK VALUE	ORDER VALUE	PEAK NO.	FREQUENCY (Hz)	PEAK VALUE	ORDER VALUE
1	7.50	.1156	.13	11	1336.23	.0846	22.91
2	59.85	.9474	1.03	12	1341.37	.0834	22.99
3	86.29	.0933	1.48	13	1439.90	.1076	24.68
4	94.40	.1123	1.62	14	1598.48	.0830	27.40
5	119.76	.6935	2.05	15	1618.65	.1464	27.75
6	185.66	.1656	3.18	16	1623.81	.1528	27.84
7	406.23	.0833	6.96	17	1636.23	.1117	28.05
8	538.86	.1182	9.24	18	1651.52	.1085	28.31
9	1101.40	.1352	18.88	19	1716.28	.0814	29.42
10	1109.35	.1335	19.02	20	1723.90	.1009	29.55

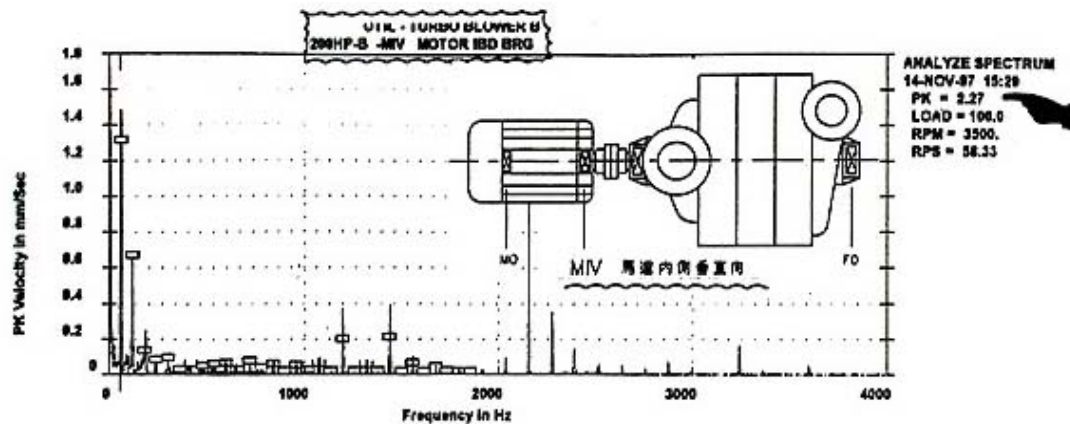
TOTAL MAG 1.2712 SUBSYNCHRONOUS .1156 / 1% SYNCHRONOUS .1574 / 2% NONSYNCHRONOUS 1.2515 / 97%
 (ELECTRICAL = .1076 / 1%)

Conclusion: Qualified. The overall vibration was 1.45mm/s, under the inspection and acceptance standard, 2.5mm/s; vibration under other bands was all under standard control criterion.

Vibration Spectrum Levels for Fan & Blower

Band	Frequency Band	Vibration Unit	Control Criterion
1	OVERALL	mm/sec (0-peak)	≤2.5
2	0.3-0.8 Rotating speed	mm/sec (0-peak)	≤1.2
3	0.8-1.2 Rotating speed	mm/sec (0-peak)	≤2.3
4	1.2-3.5 Rotating speed	mm/sec (0-peak)	≤1.3
5	3.5 Rotating speed ~Fmax	mm/sec (0-peak)	≤0.7
6	0.3 Rotating speed ~ Fmax	G's (0-peak)	≤0.5

Fmax: 50 Rotating speed



LIST OF SPECTRAL PEAKS

Machine: (UTIL) TURBO BLOWER B
 Meas. Point: 200HP-B -MIV --> MOTOR IBD BRG
 Date/Time: 14-NOV-97 15:29:06 RPM= 3500. Units=mm/Sec PK

PEAK NO.	FREQUENCY (Hz)	PEAK VALUE	ORDER VALUE	PEAK NO.	FREQUENCY (Hz)	PEAK VALUE	ORDER VALUE
1	6.71	.9300	.12	11	185.70	.2573	3.18
2	13.60	.2699	.23	12	1080.05	.0949	18.52
3	23.27	.1427	.40	13	1200.00	.3683	20.57
4	27.33	.1637	.47	14	1440.00	.3902	24.69
5	59.85	1.3044	1.03	15	1560.07	.1026	26.74
6	86.50	.0936	1.48	16	2040.00	.0921	34.97
7	93.42	.1204	1.60	17	2160.00	1.1224	37.03
8	119.85	.6559	2.05	18	2280.00	.3486	39.09
9	171.28	.1104	2.94	19	2394.74	.1457	41.05
10	179.38	.1259	3.08	20	3240.00	.1633	55.54

TOTAL MAG 2.2314 SUBSYNCHRONOUS .9924 / 20% SYNCHRONOUS 0.0 / 0% NONSYNCHRONOUS 1.5067 / 46%
 (ELECTRICAL = 1.3130 / 35%)

Conclusion: Unqualified. The overall vibration was 2.27mm/s, under the inspection and acceptance standard, 2.5mm/s; however, vibration under 2160Hz was 1.1224mm/s and exceeded the control criterion under band 7, 0.6mm/s.

Vibration Spectrum Levels for Motors (Empty)

Band	Frequency Band	Standard Motor	Large Motor	Precision Motor
1	OVERALL	≤ 2.5	≤ 3.8	≤ 0.7
2	0.3-0.8 Rotating speed	≤ 0.8	≤ 0.8	≤ 0.5
3	0.8-1.2 Rotating speed	≤ 2.3	≤ 3.4	≤ 0.5
4	1.2-3.5 Rotating speed	≤ 1.0	≤ 1.5	≤ 0.3
5	3.5-8.5 Rotating speed	≤ 0.9	≤ 1.1	≤ 0.3
6	8.5 Rotating speed-1000Hz	≤ 0.6	≤ 1.0	≤ 0.1
7	1000Hz-Fmax	≤ 0.6	≤ 1.0	≤ 0.1
8	0.3 Rotating speed -Fmax	≤ 0.5	≤ 0.5	≤ 0.3

Standard Motor: motors < 400HP

Large Motor: motors ≥ 400 HP and use motors with sleeve bearing

Precision Motor: please indicate on purchase order

General Performance & Introduction

Heavy Duty Casting Centrifugal Blowers

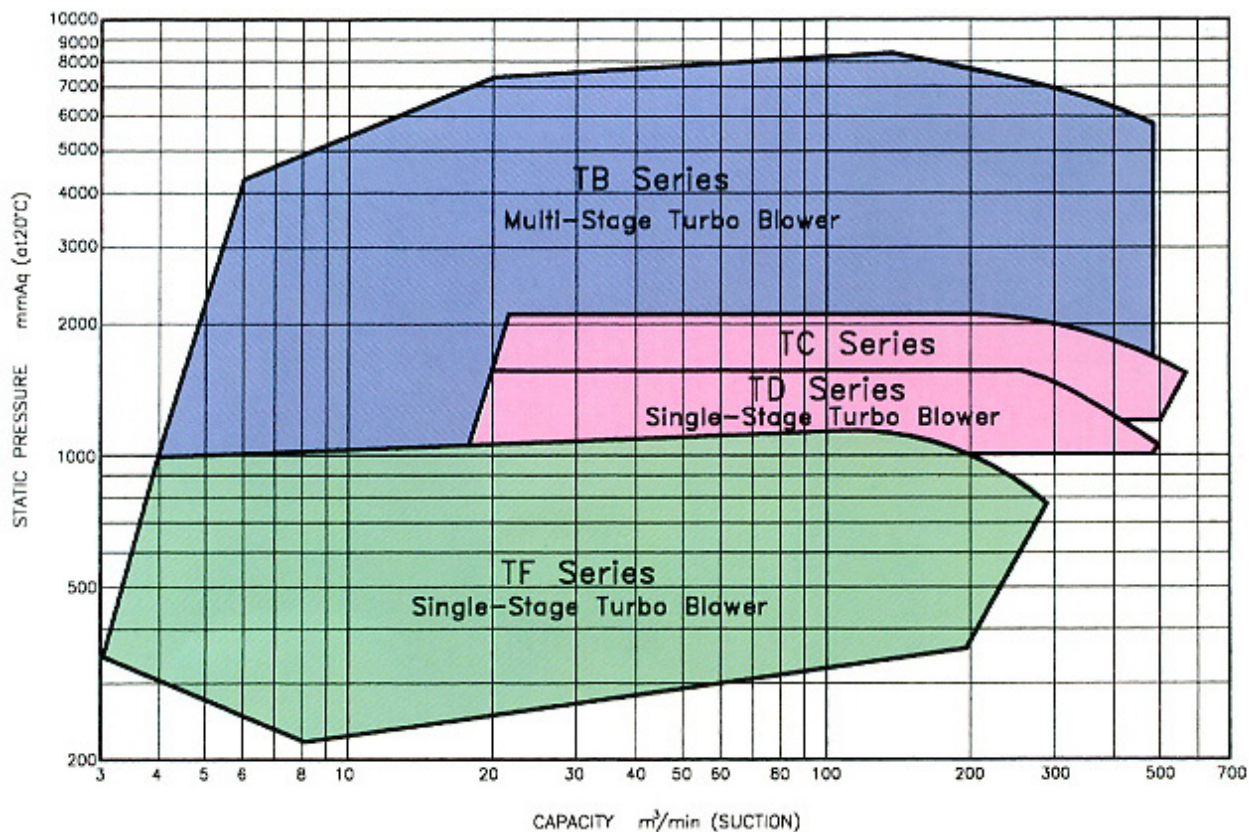
Single-Stage TF Series	Pressure Range: 300~1100mmAq
Single-Stage TD Series	Pressure Range: 1100~1600mmAq
Single-Stage TC Series	Pressure Range: 1400~2000mmAq
Multi -Stage TB Series	Pressure Range: 1200~9600mmAq

Features:

- High Efficiency
- Low Noise
- Low Vibration
- Long Operating Life
- Low Operating Cost



General Performance

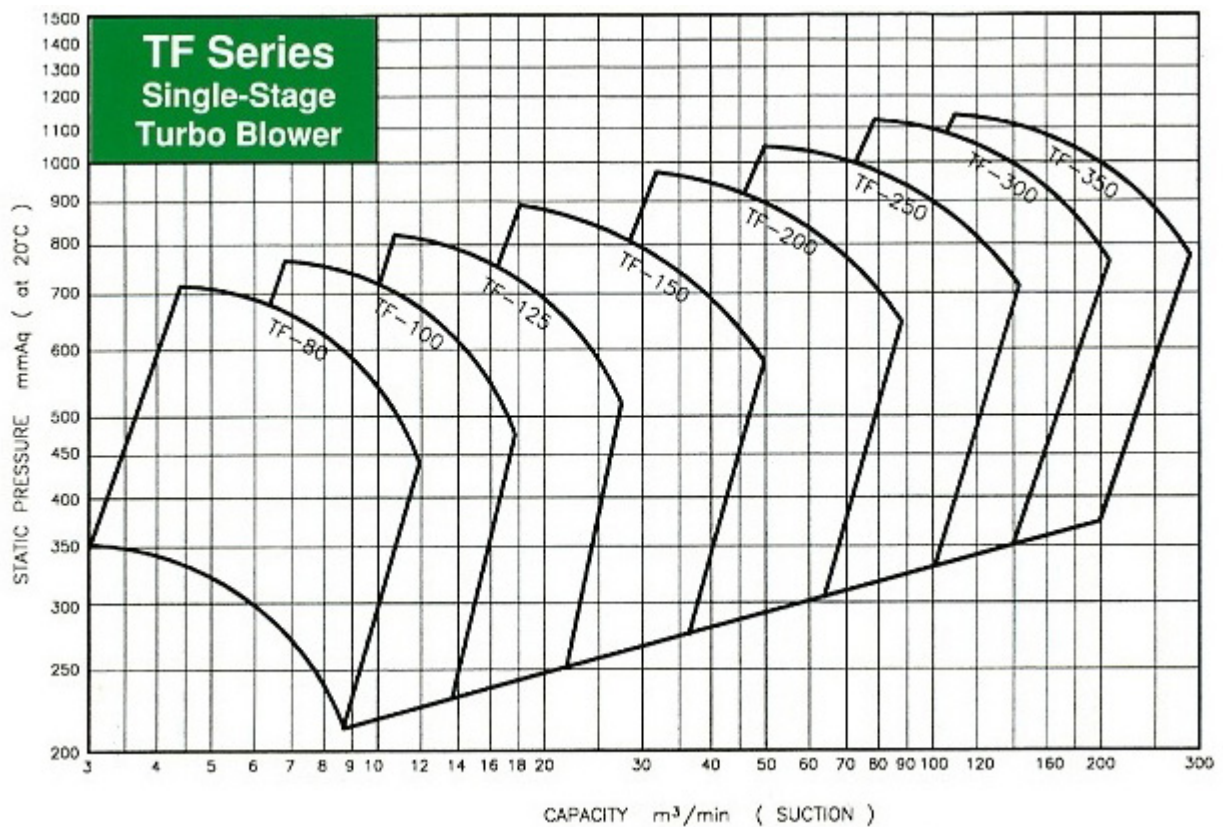


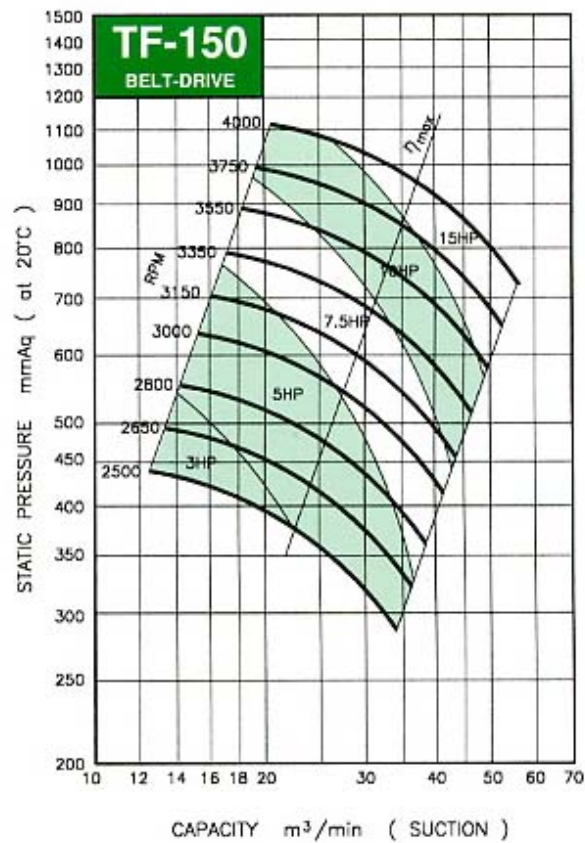
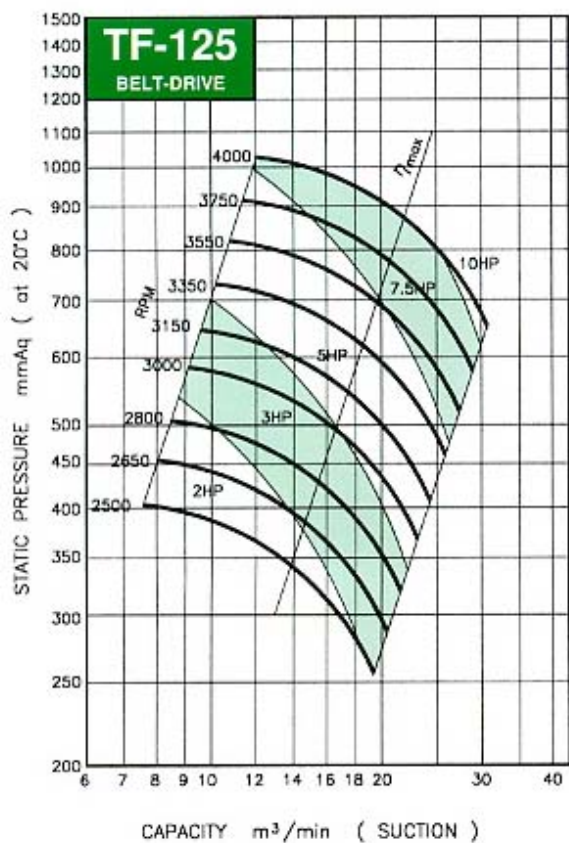
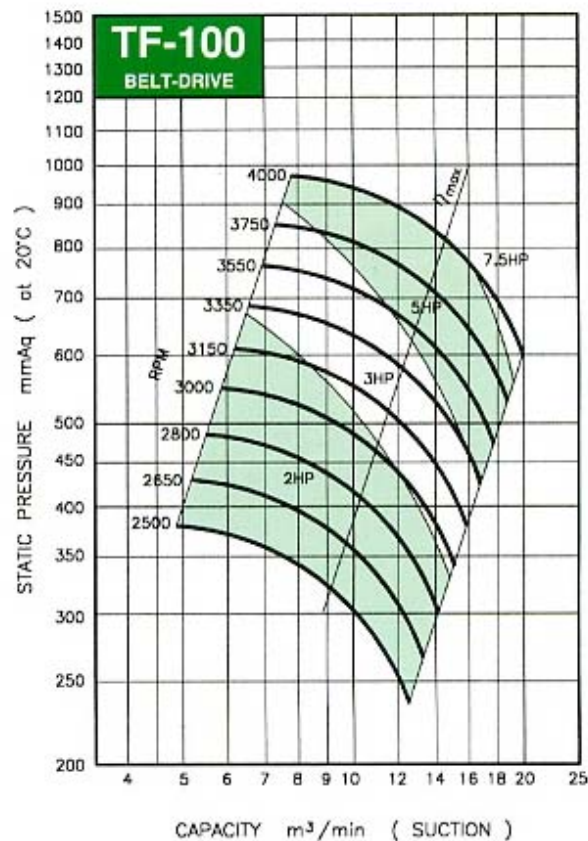
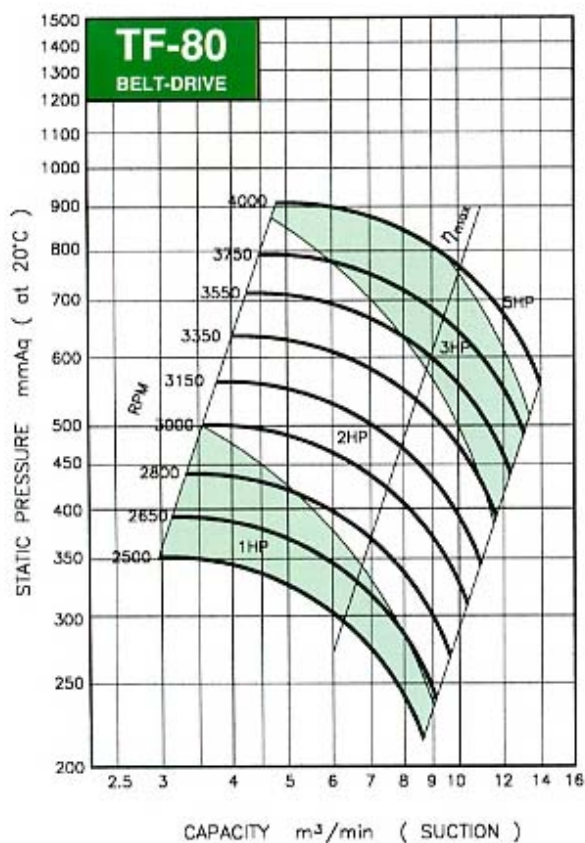
Single-Stage TF Series Casting Centrifugal Blower

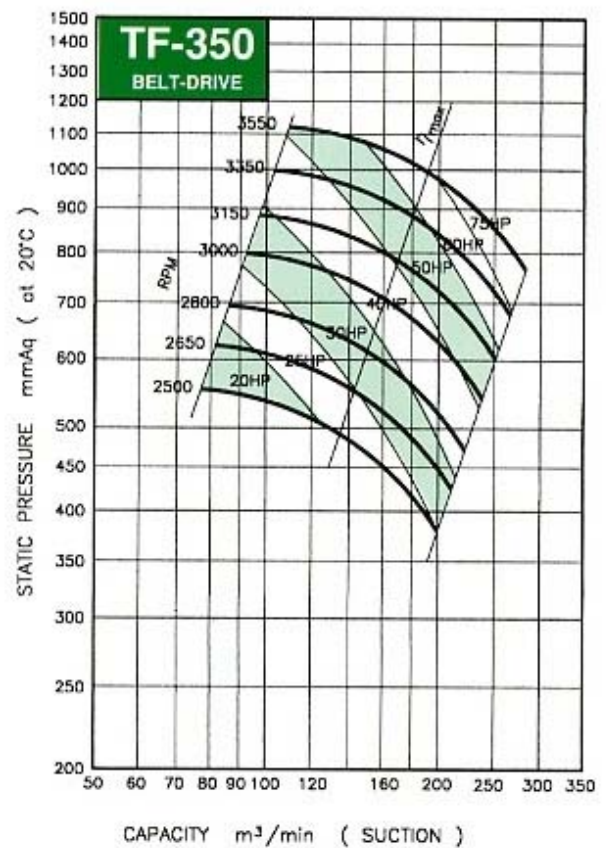
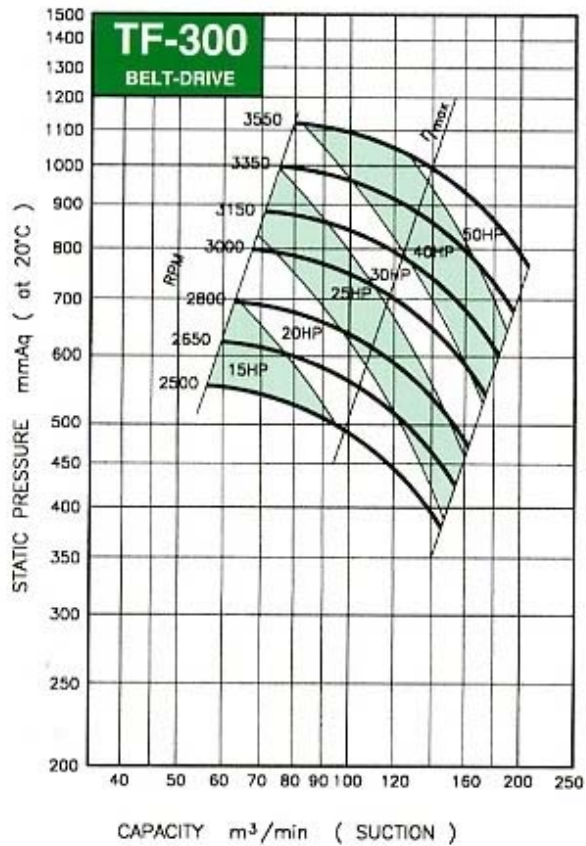
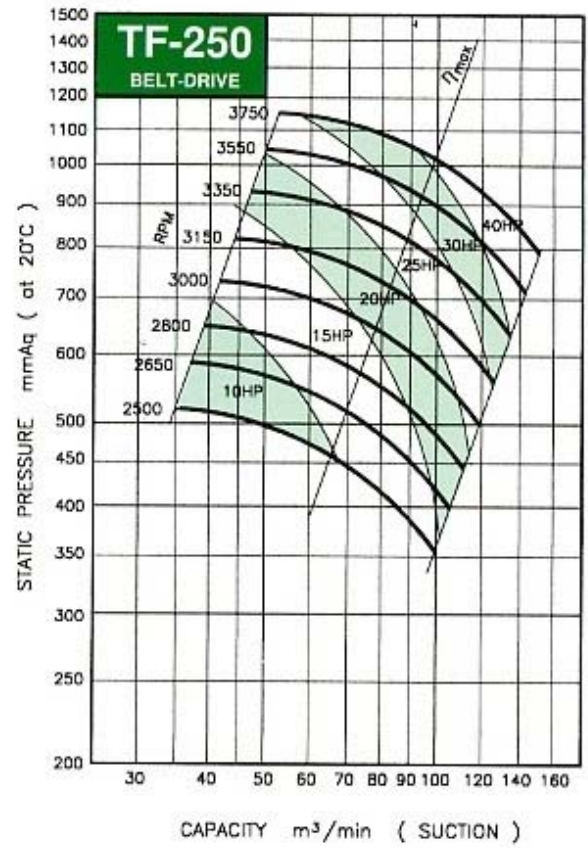
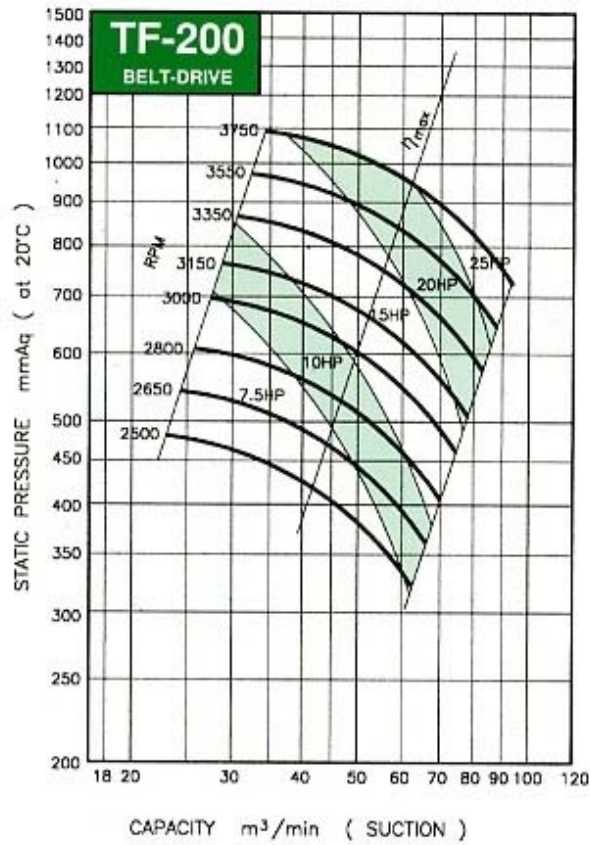
Pressure Range: 300~1100mmAq



General Performance

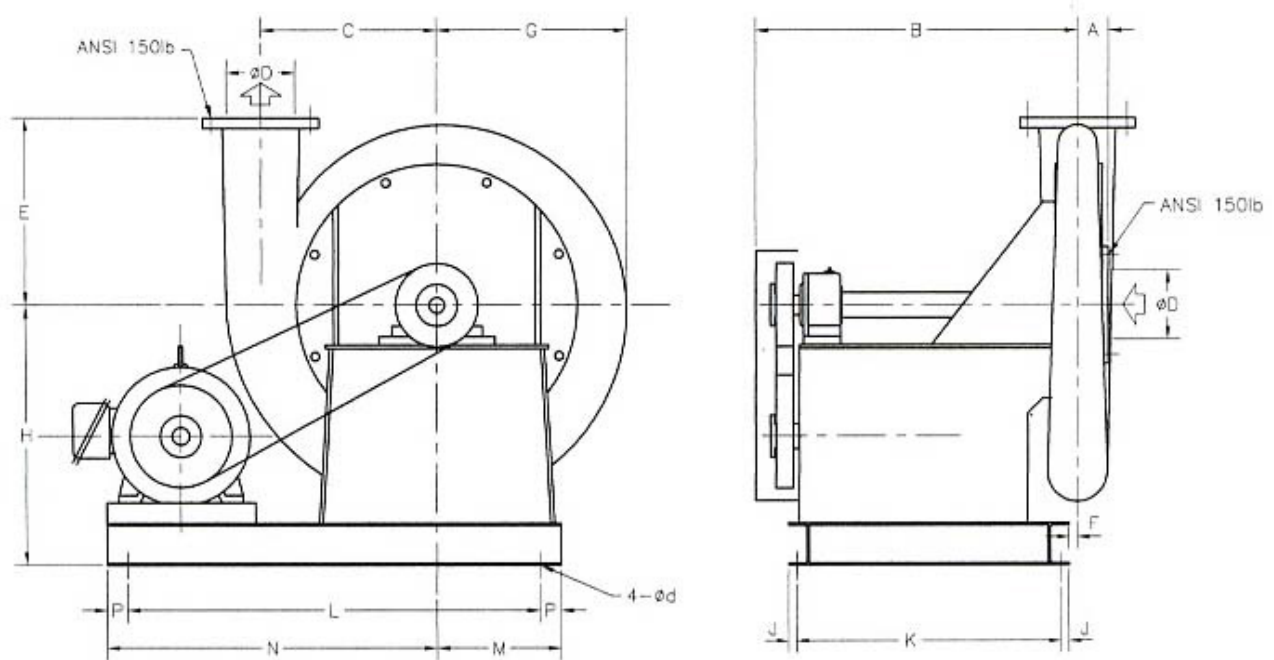




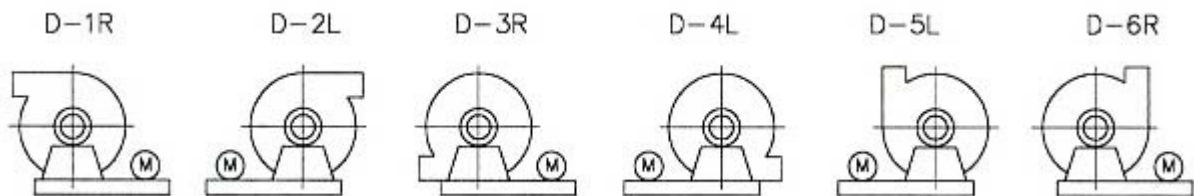


Castle Blower

Belt-Drive

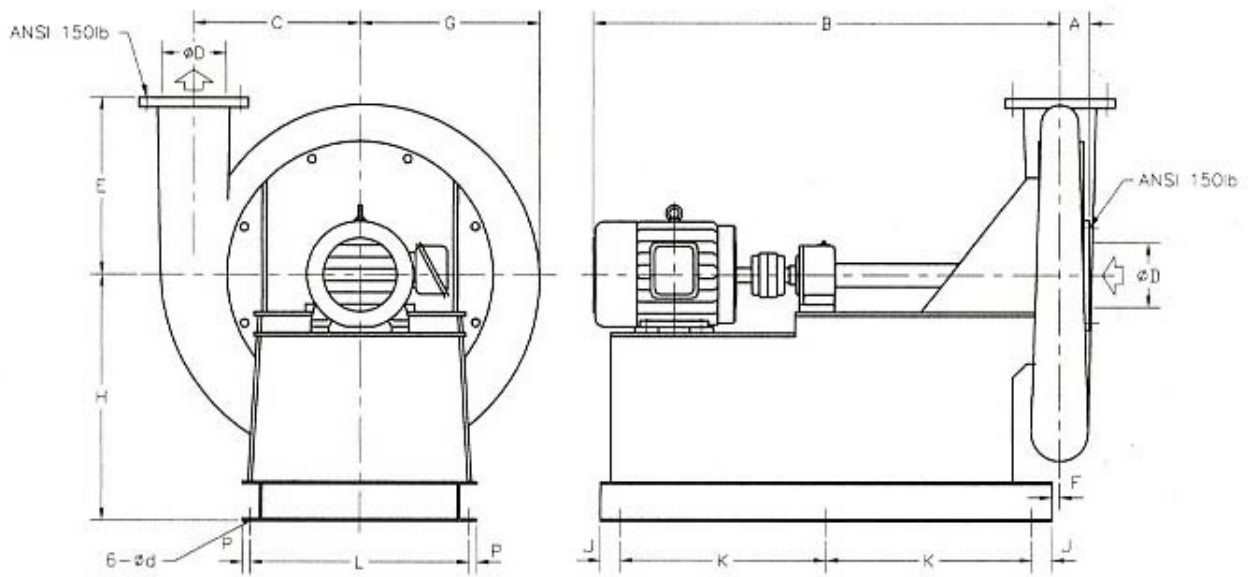


Directions of Outlet

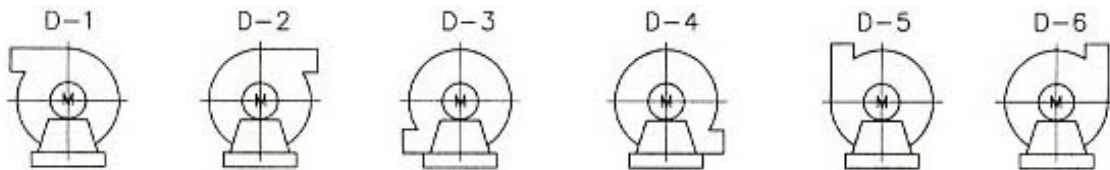


MODEL	INLET & OUTLET	A	B	C	ΦD	E	F	G	H	J	K	L	M	N	P	Φd
TF-80	ANSI 150lb Φ3"	70	550	340	80	350	20	360	475	20	420	750	250	600	50	12
TF-100	ANSI 150lb Φ4"	70	550	360	100	350	20	380	500	20	420	750	250	600	50	12
TF-125	ANSI 150lb Φ5"	70	780	400	125	400	20	440	575	20	650	850	250	700	50	15
TF-150	ANSI 150lb Φ6"	75	780	425	150	450	20	470	625	20	650	1000	300	800	50	15
TF-200	ANSI 150lb Φ8"	90	800	470	200	450	20	510	700	20	650	1100	350	850	50	15
TF-250	ANSI 150lb Φ10"	90	950	510	250	500	20	560	800	30	750	1150	400	950	100	19
TF-300	ANSI 150lb Φ12"	100	950	550	300	550	20	610	850	30	750	1250	400	1050	100	19
TF-350	ANSI 150lb Φ14"	125	1120	590	350	550	20	650	950	30	940	1450	450	1200	100	24

Coupling Direct-Drive



Directions of Outlet

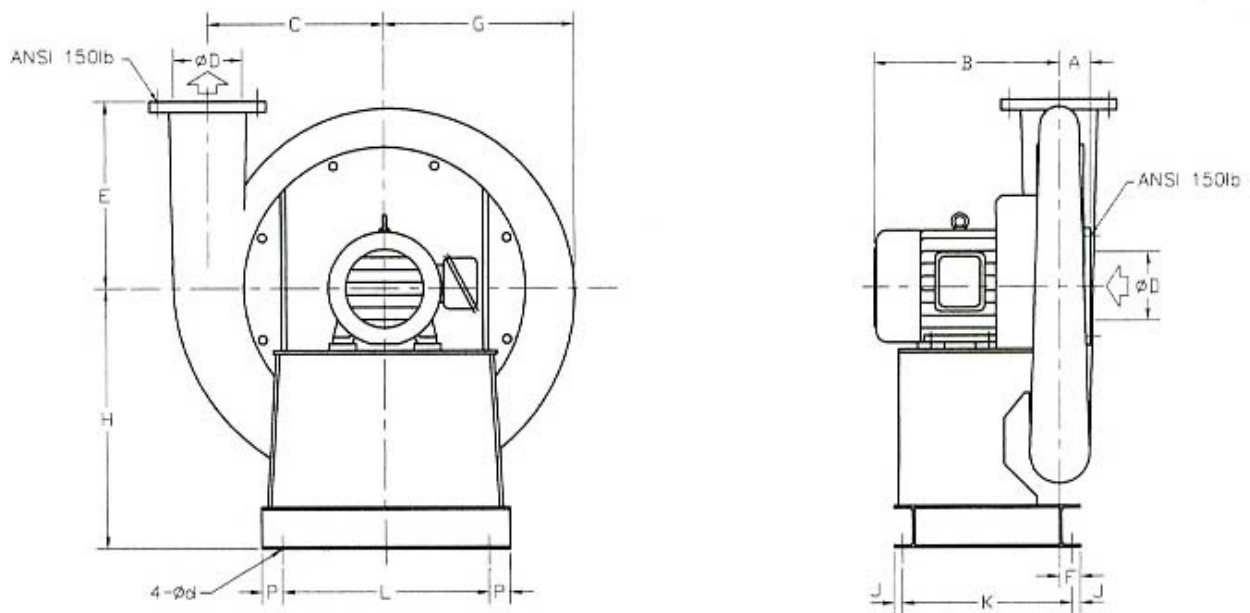


MODEL	INLET & OUTLET	HP 2P	RPM	A	B	C	ΦD	E	F	G	H	J	K	L	P	Φd
TF-80	ANSI 150lb Φ3"	3	3500	70	850	340	80	350	20	360	475	50	350	460	20	12
TF-100	ANSI 150lb Φ4"	5	3500	70	910	360	100	350	20	380	500	50	380	460	20	12
TF-125	ANSI 150lb Φ5"	7.5	3500	70	1200	400	125	400	20	440	575	50	525	460	20	15
TF-150	ANSI 150lb Φ6"	10	3500	75	1200	425	150	450	20	470	625	50	525	560	20	15
TF-200	ANSI 150lb Φ8"	20	3500	90	1400	470	200	450	20	510	700	50	625	660	20	15
TF-250	ANSI 150lb Φ10"	30	3500	90	1550	510	250	500	20	560	800	50	700	740	30	19
TF-300	ANSI 150lb Φ12"	40	3500	100	1650	550	300	550	20	610	850	50	750	740	30	19
TF-350	ANSI 150lb Φ14"	75	3500	125	1680	590	350	550	20	650	950	50	750	840	30	24

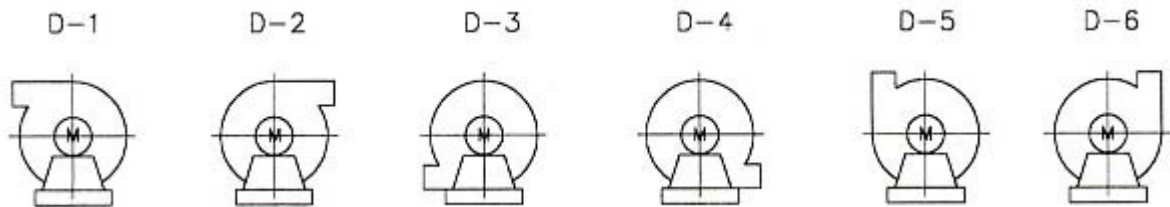
MODEL	INLET & OUTLET	HP 2P	RPM	A	B	C	ΦD	E	F	G	H	J	K	L	P	Φd
TF-80	ANSI 150lb Φ3"	2	2920	70	850	340	80	350	20	360	475	50	350	460	20	12
TF-100	ANSI 150lb Φ4"	3	2920	70	910	360	100	350	20	380	500	50	350	460	20	12
TF-125	ANSI 150lb Φ5"	5	2920	70	1140	400	125	400	20	440	575	50	500	460	20	15
TF-150	ANSI 150lb Φ6"	7.5	2920	75	1200	425	150	450	20	470	625	50	525	560	20	15
TF-200	ANSI 150lb Φ8"	15	2920	90	1400	470	200	450	20	510	700	50	625	660	20	15
TF-250	ANSI 150lb Φ10"	20	2920	90	1490	510	250	500	20	560	800	50	675	740	30	19
TF-300	ANSI 150lb Φ12"	30	2920	100	1560	550	300	550	20	610	850	50	700	740	30	19
TF-350	ANSI 150lb Φ14"	40	2920	125	1775	590	350	550	20	650	950	50	825	840	30	24

Castle Blower

Horizontal Motor Direct-Drive



Directions of Outlet



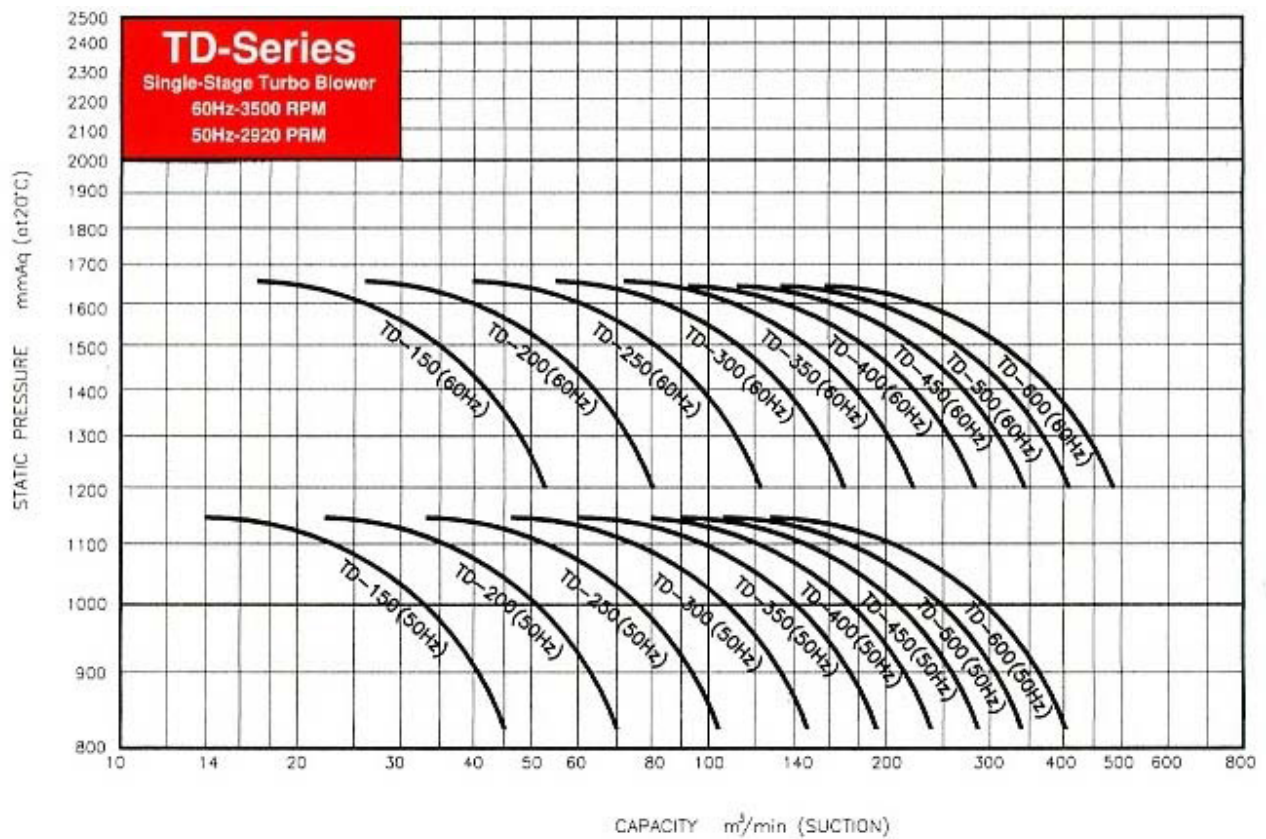
MODEL	INLET & OUTLET	HP 2P	A	B	C	ΦD	E	F	G	H	J	K	L	P	Φd
TF-80	ANSI 150lb Φ3"	3	70	340	340	80	350	50	360	475	20	360	400	50	12
TF-100	ANSI 150lb Φ4"	5	70	400	360	100	350	50	380	500	20	380	400	50	12
TF-125	ANSI 150lb Φ5"	7.5	70	450	400	125	400	50	440	575	20	410	500	50	15
TF-150	ANSI 150lb Φ6"	10	75	450	425	150	450	50	470	625	20	410	500	50	15
TF-200	ANSI 150lb Φ8"	20	90	600	470	200	450	50	510	700	20	510	600	50	15
TF-250	ANSI 150lb Φ10"	30	90	660	510	250	500	100	560	800	30	650	700	50	19
TF-300	ANSI 150lb Φ12"	40	100	700	550	300	550	100	610	850	30	690	700	50	19
TF-350	ANSI 150lb Φ14"	75	125	790	590	350	550	100	650	950	30	740	800	50	24

Single-Stage TD Series Casting Centrifugal Blower

Pressure Range: 1100~1600mmAq

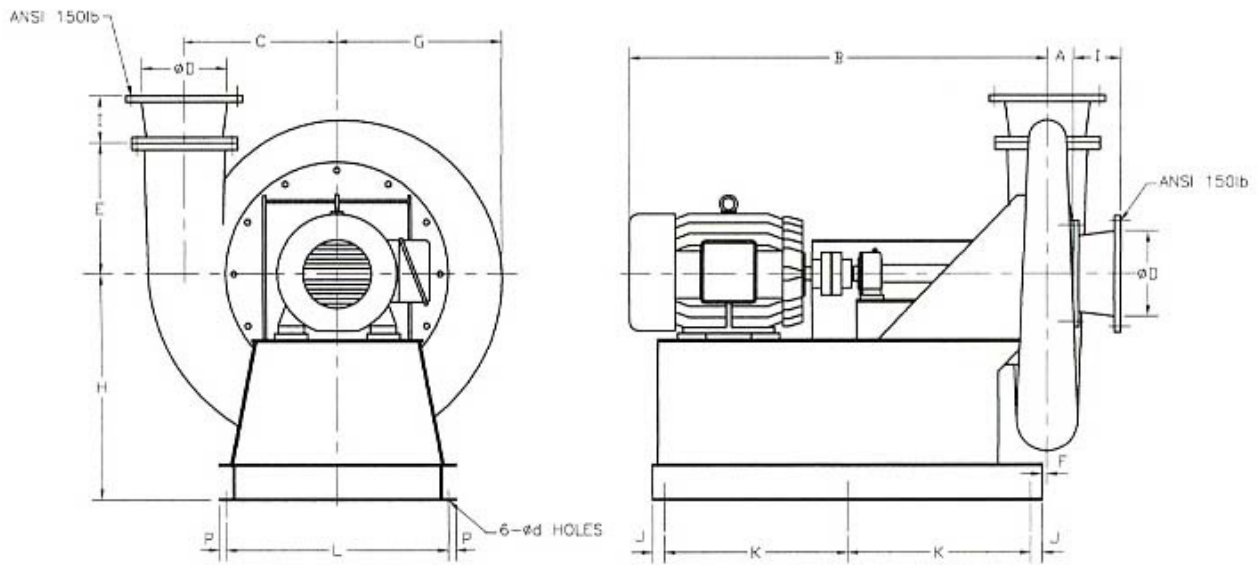


General Performance

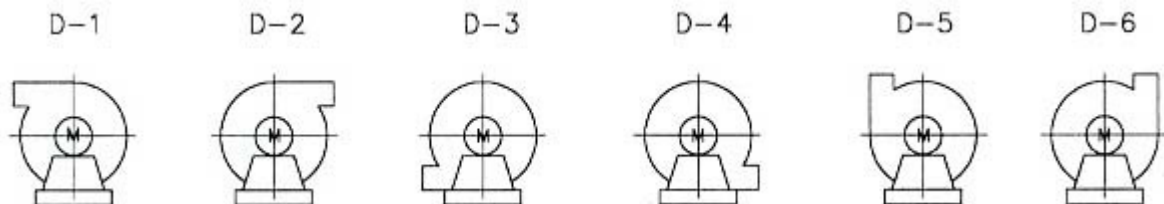


Castle Blower

Coupling Direct-Drive



Directions of Outlet



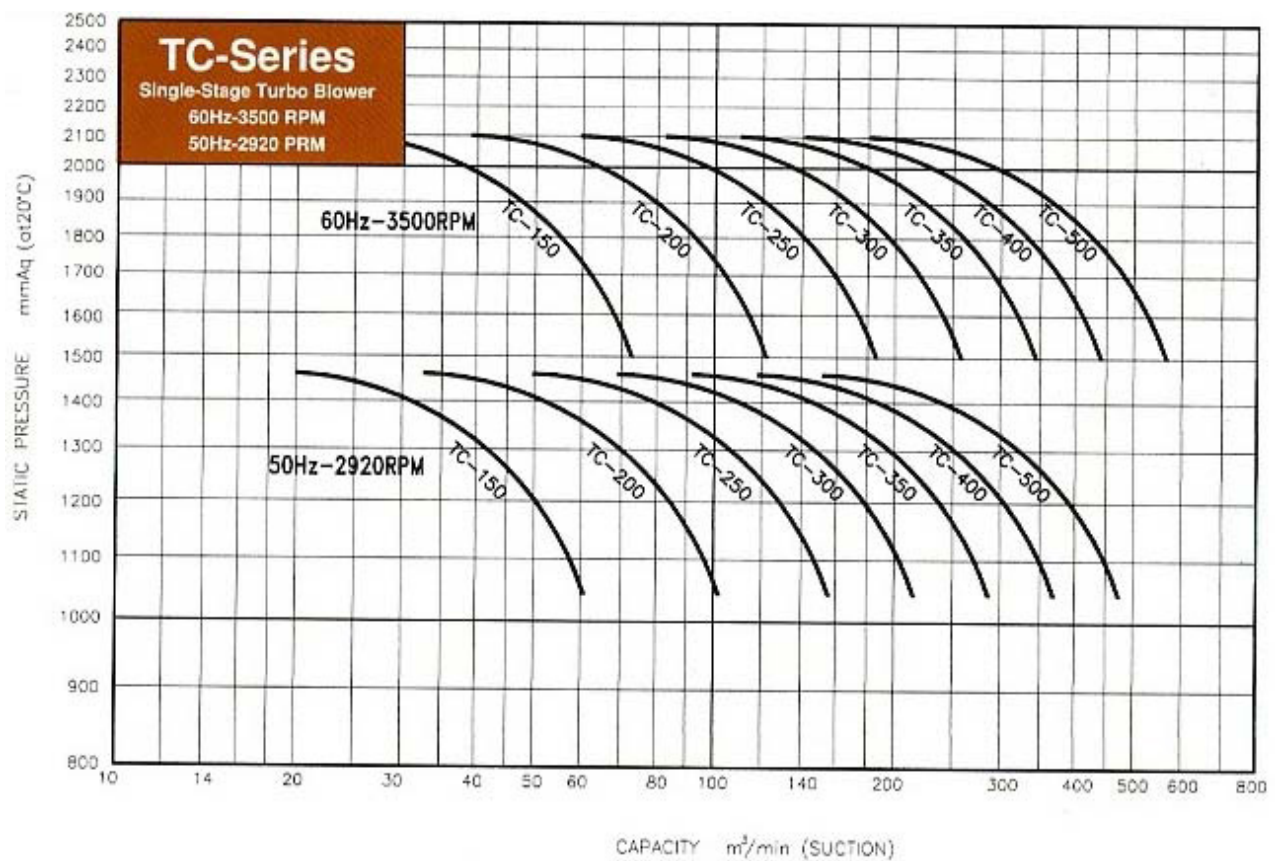
MODEL	INLET & OUTLET	A	B	C	ΦD	E	F	G	H	I	J	K	L	P	Φd
TD-150	ANSI 150lb Φ6"	105	1700	600	160	500	20	642	850	200	50	740	740	30	19
TD-200	ANSI 150lb Φ8"	105	1700	600	210	500	20	642	850	200	50	740	740	30	19
TD-250	ANSI 150lb Φ10"	105	1700	600	260	500	20	642	850	200	50	740	740	30	19
TD-300	ANSI 150lb Φ12"	110	1720	640	310	550	20	700	950	200	50	775	940	30	24
TD-350	ANSI 150lb Φ14"	110	1720	640	360	550	20	700	950	200	50	775	940	30	24
TD-400	ANSI 150lb Φ16"	120	1830	700	410	600	20	770	1100	250	50	825	1140	30	24
TD-450	ANSI 150lb Φ18"	120	1830	700	460	600	20	770	1100	250	50	825	1140	30	24
TD-500	ANSI 150lb Φ20"	130	1960	760	510	650	20	830	1250	250	50	875	1340	30	28
TD-600	ANSI 150lb Φ24"	130	1960	760	610	650	20	830	1250	250	50	875	1340	30	28

Single-Stage TC Series Casting Centrifugal Blower

Pressure Range: 1400~2000mmAq

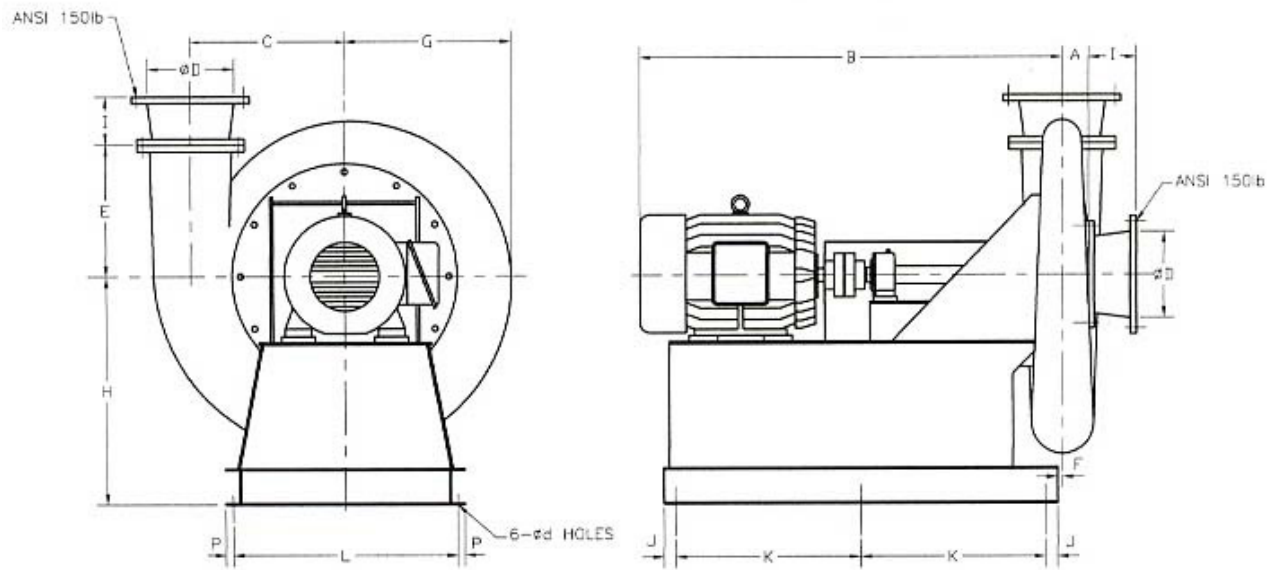


General Performance

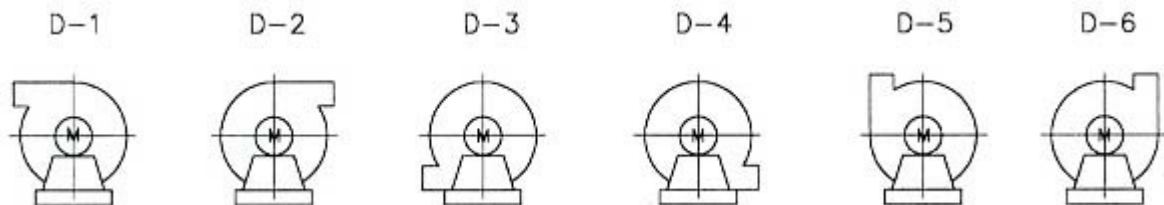


Castle Blower

Coupling Direct-Drive



Directions of Outlet



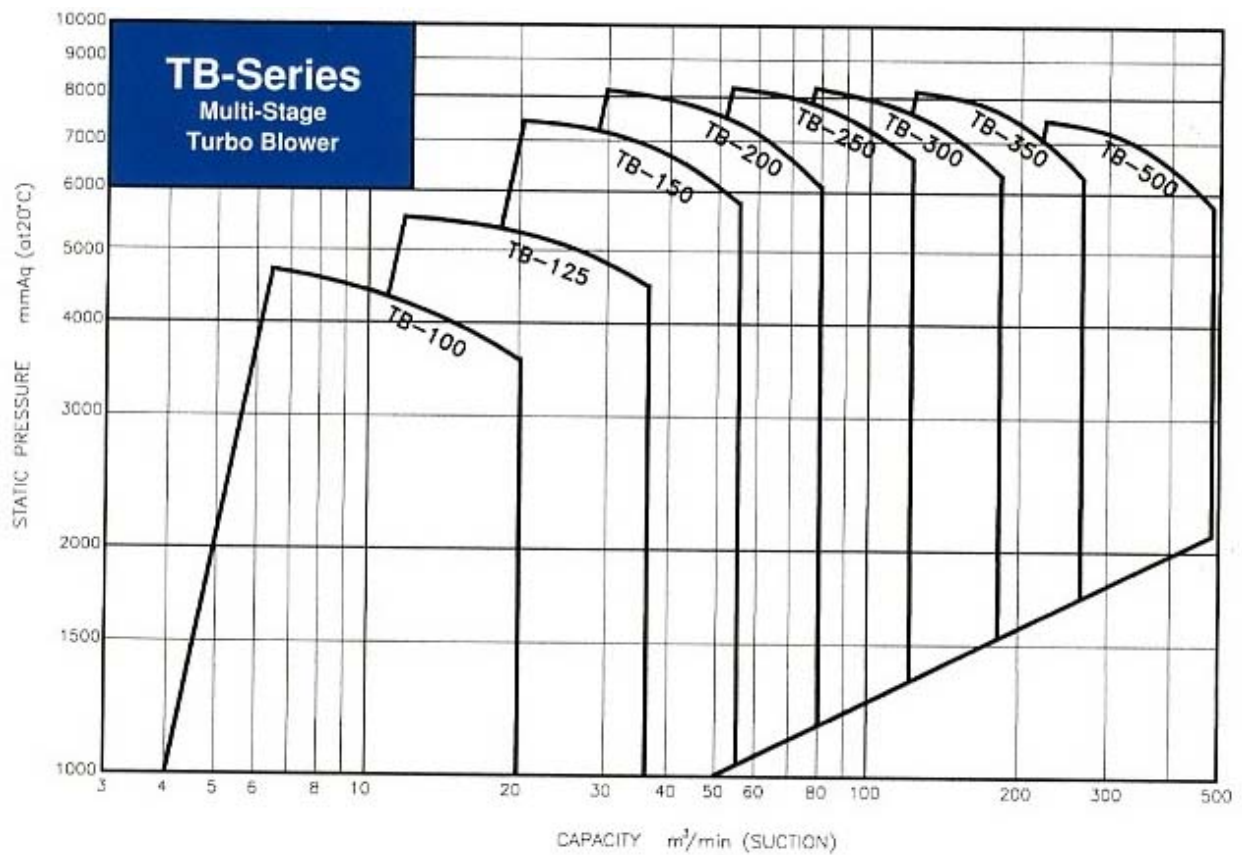
MODEL	INLET & OUTLET	A	B	C	ΦD	E	F	G	H	I	J	K	L	P	Φd
TC-150	ANSI 150lb Φ6"	105	1700	650	160	550	20	700	950	200	50	750	940	30	24
TC-200	ANSI 150lb Φ8"	105	1700	650	210	550	20	700	950	200	50	750	940	30	24
TC-250	ANSI 150lb Φ10"	105	1700	650	260	550	20	700	950	200	50	750	940	30	24
TC-300	ANSI 150lb Φ12"	110	1800	690	310	550	20	750	1000	200	50	825	1040	30	24
TC-350	ANSI 150lb Φ14"	110	1850	690	360	550	20	750	1000	250	50	825	1040	30	24
TC-400	ANSI 150lb Φ16"	130	1960	750	410	600	20	825	1200	250	50	875	1240	30	28
TC-500	ANSI 150lb Φ20"	140	2010	800	510	650	20	850	1300	250	50	900	1440	30	28

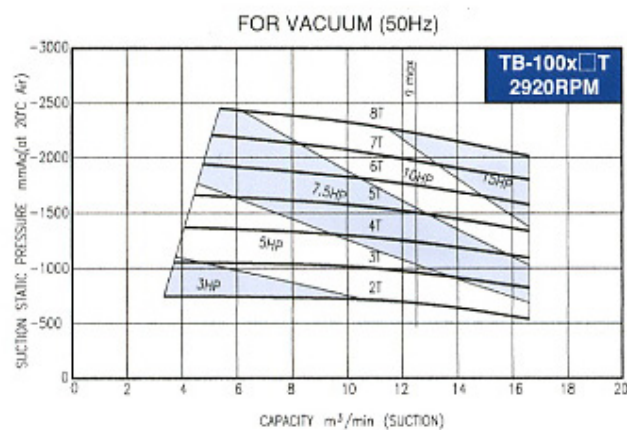
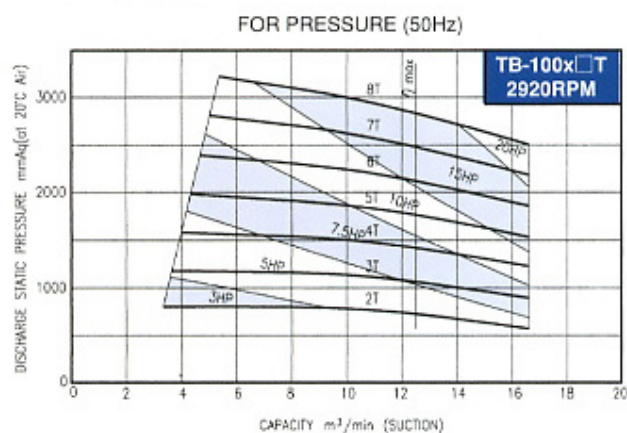
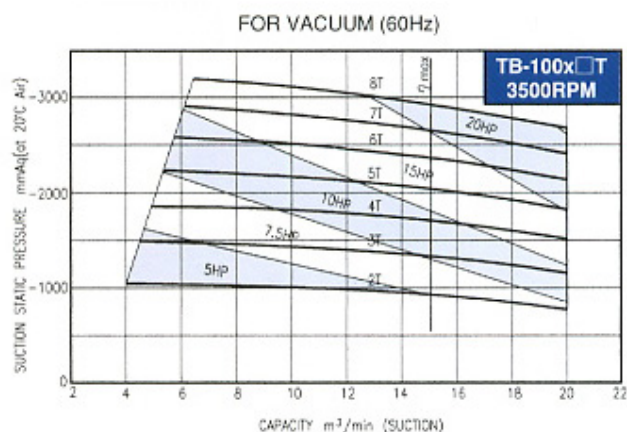
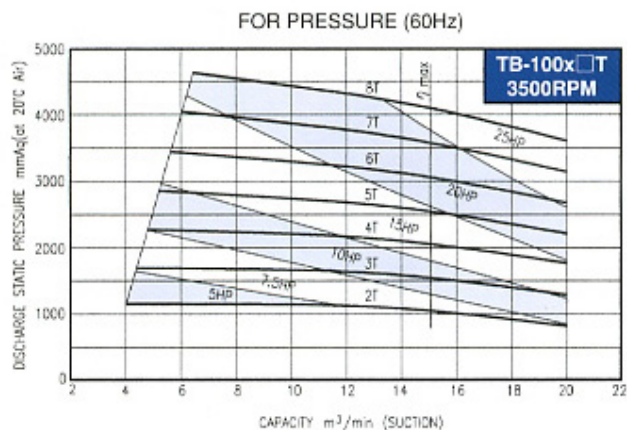
Multi-Stage TB Series Casting Centrifugal Blower

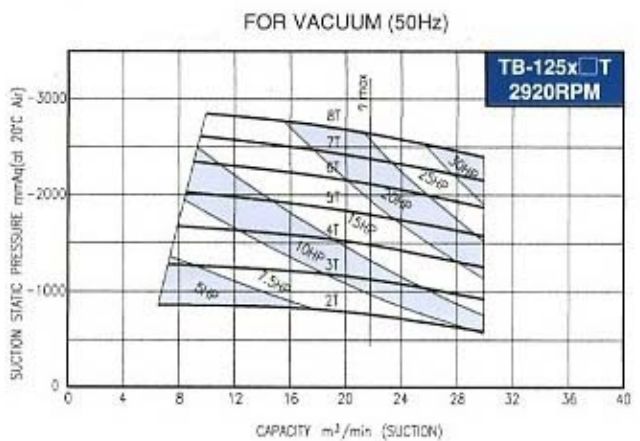
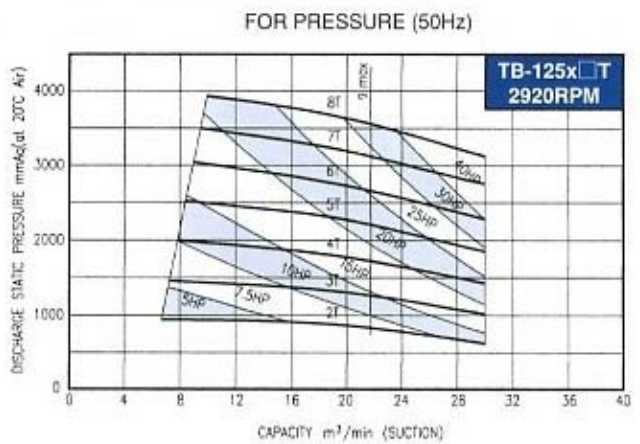
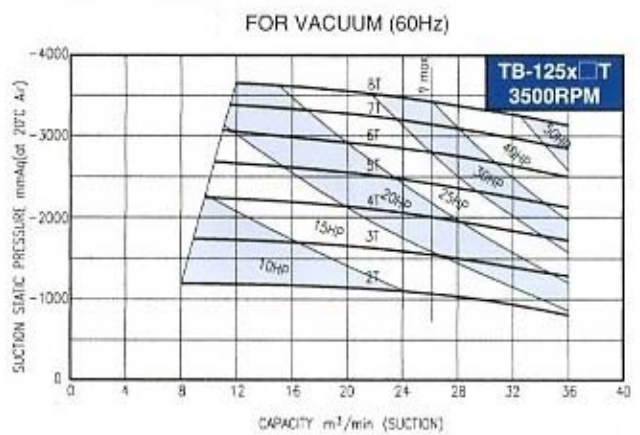
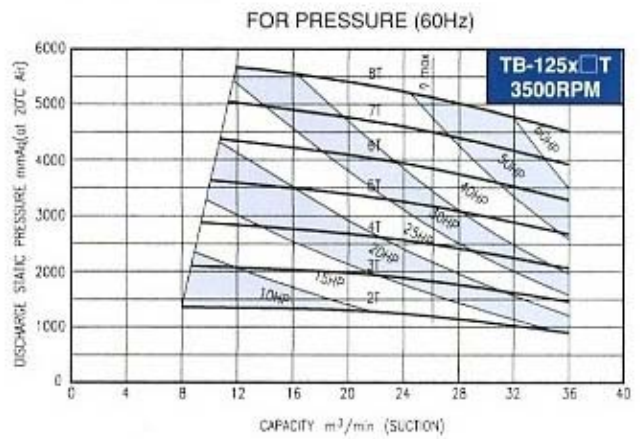
Pressure Range: 1200~9600mmAq

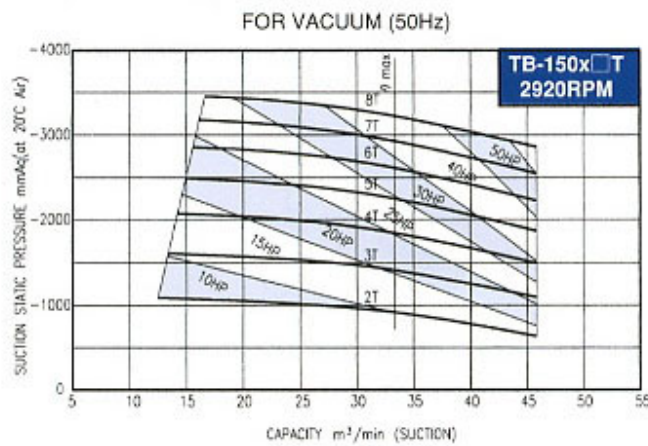
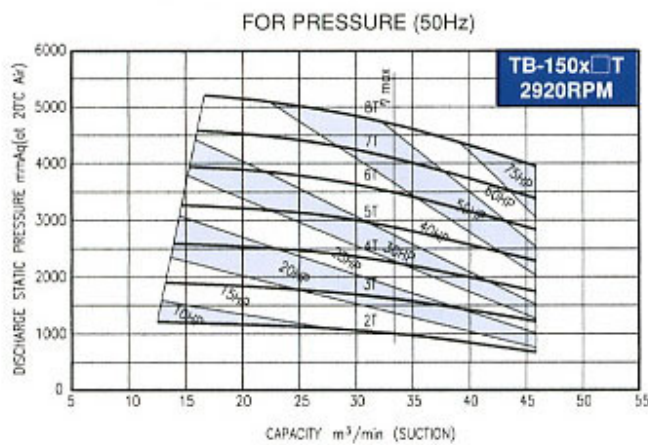
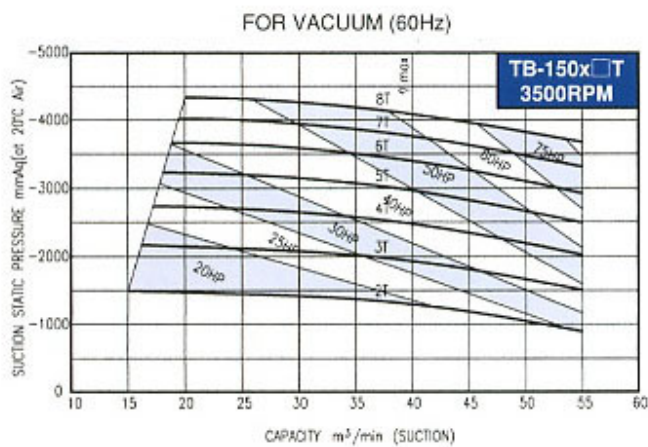
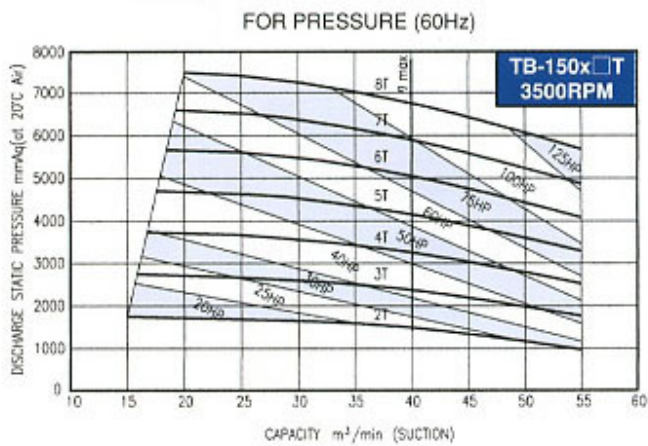


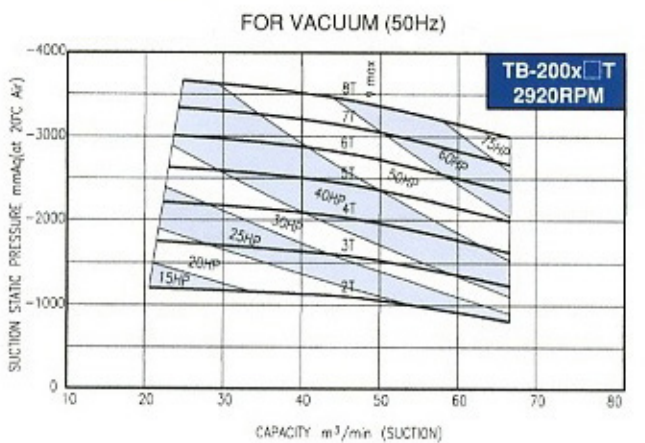
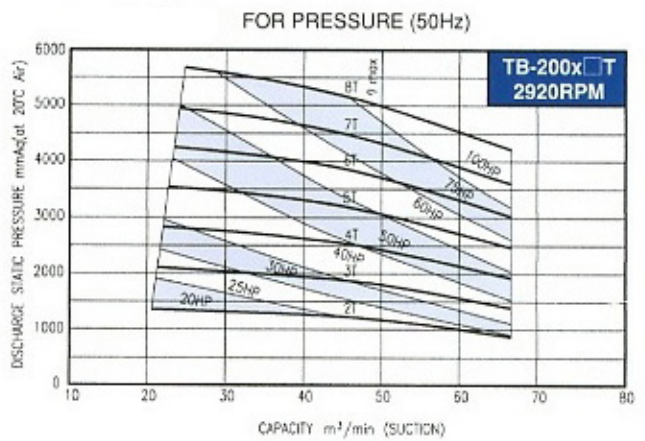
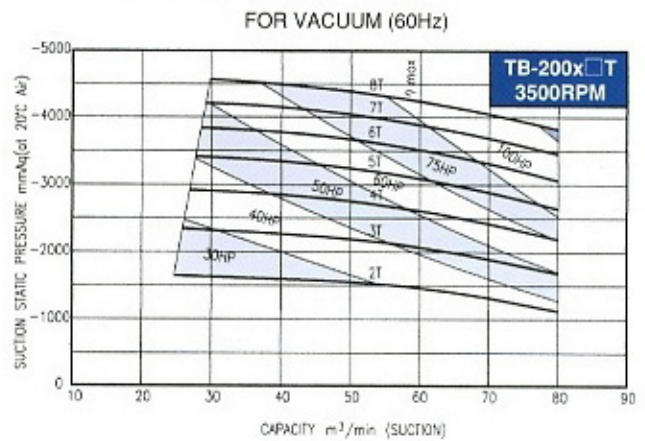
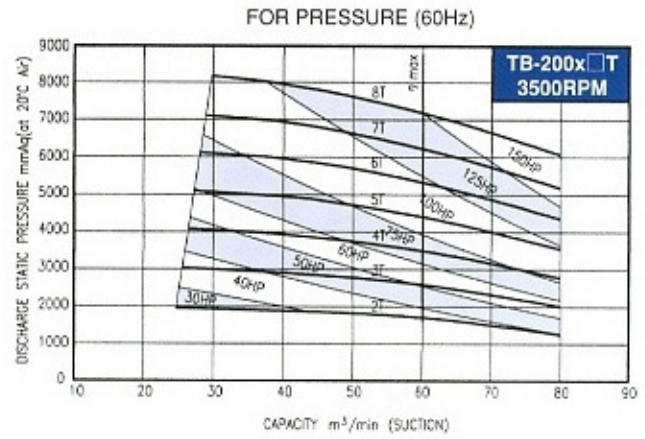
General Performance

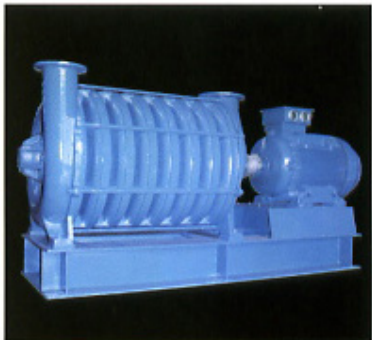
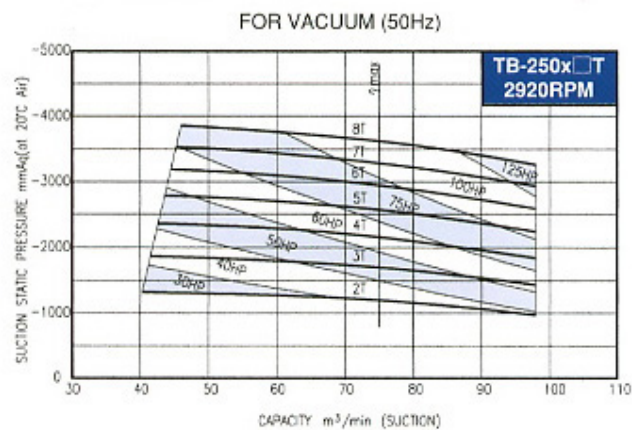
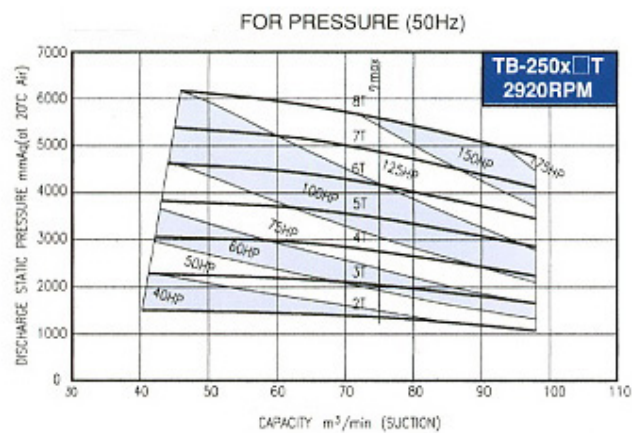
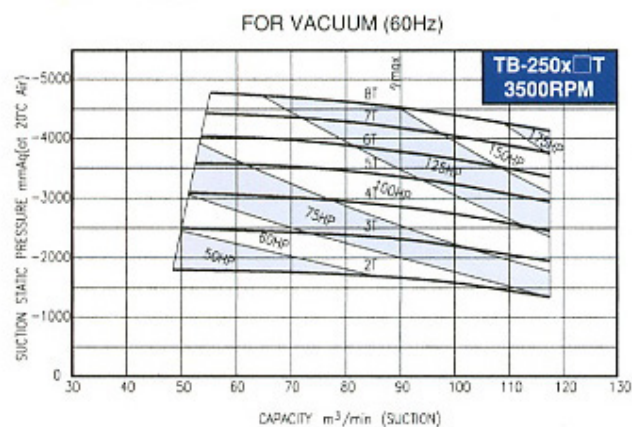
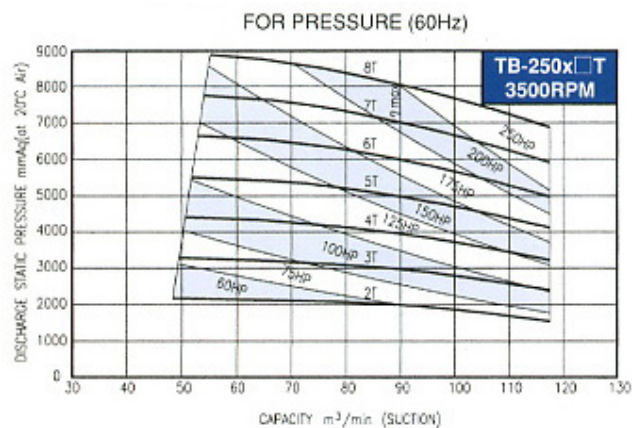


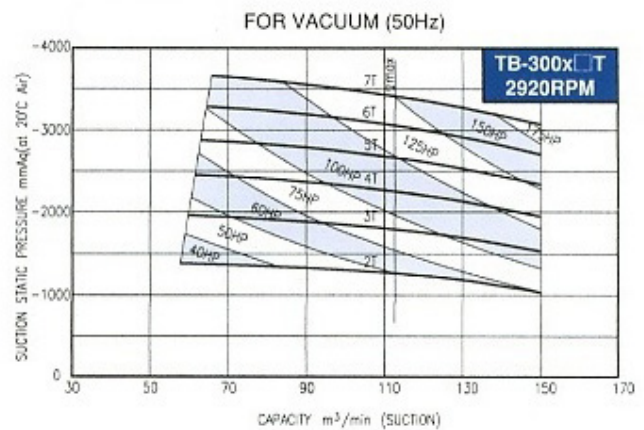
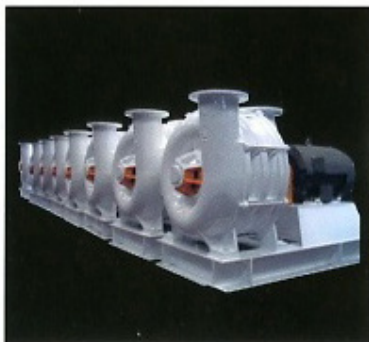
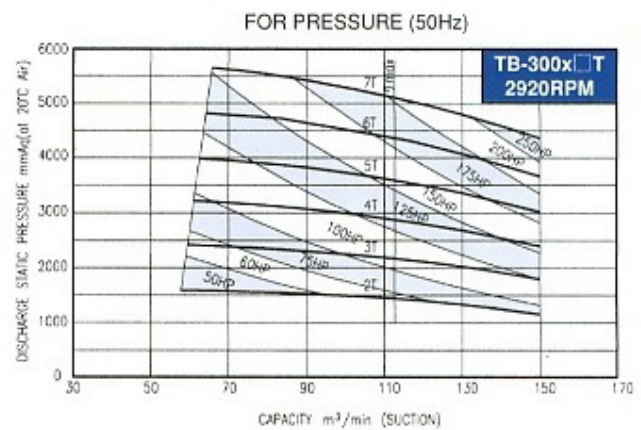
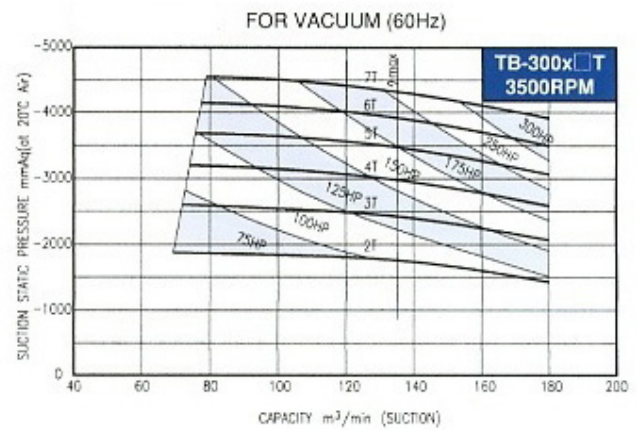
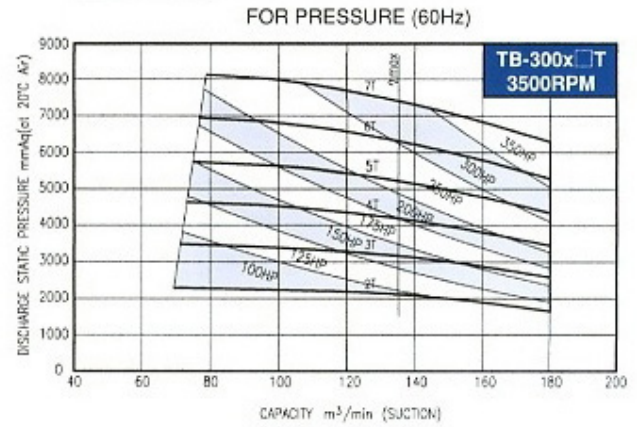


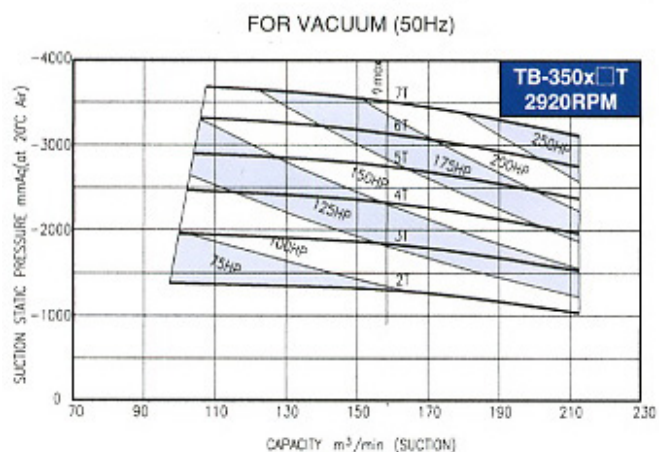
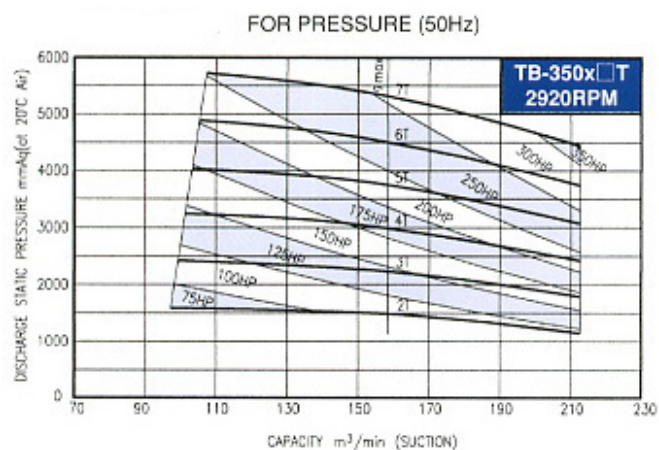
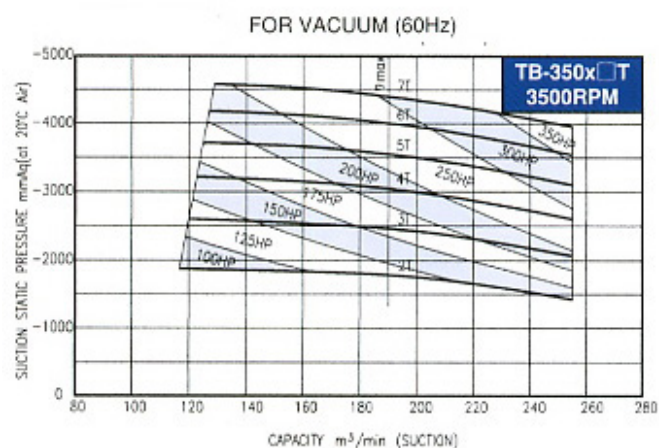
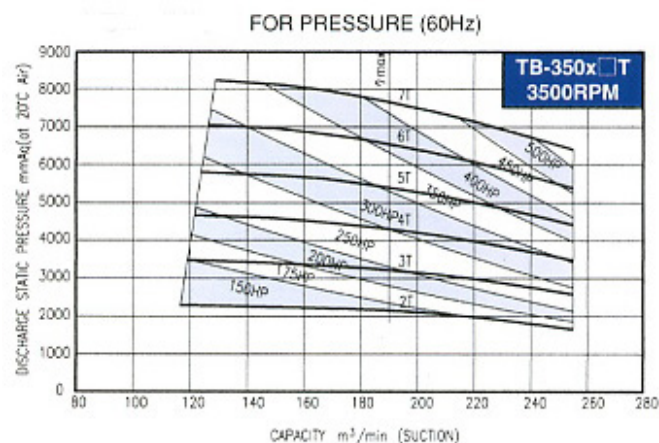


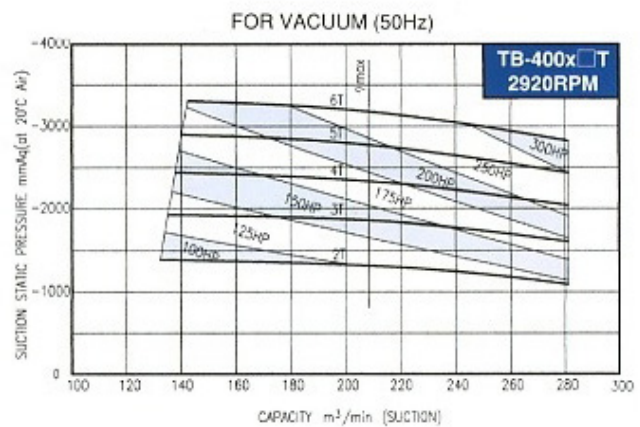
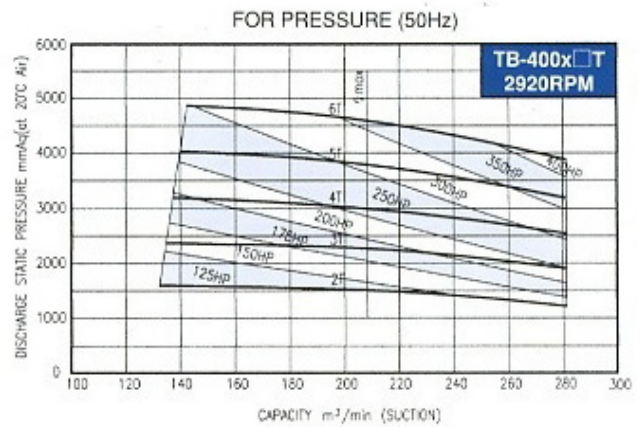
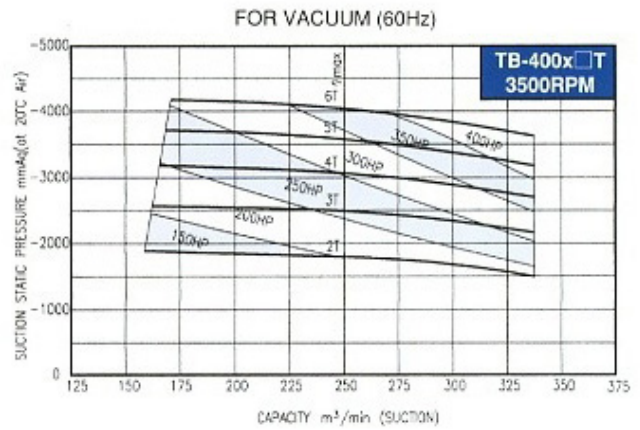
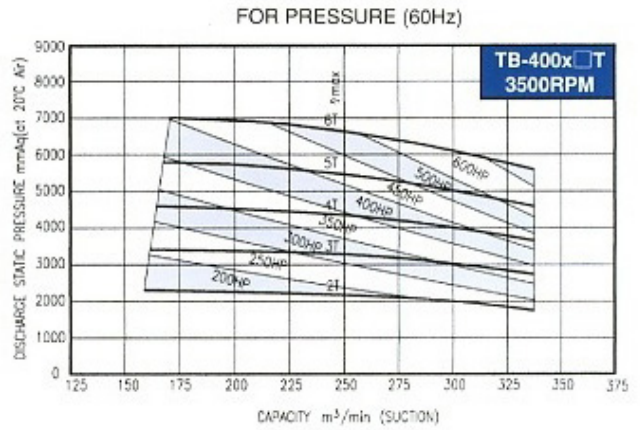


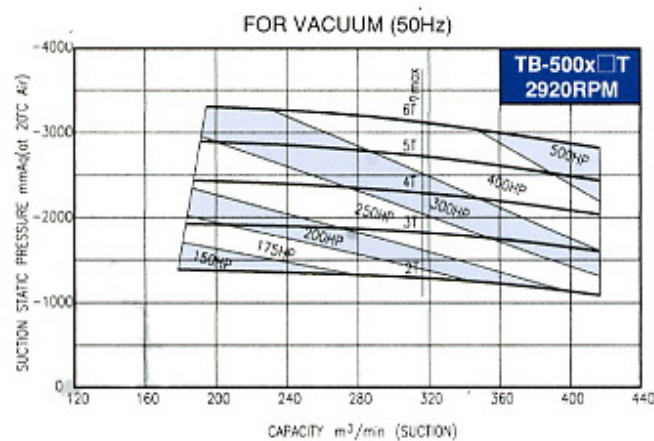
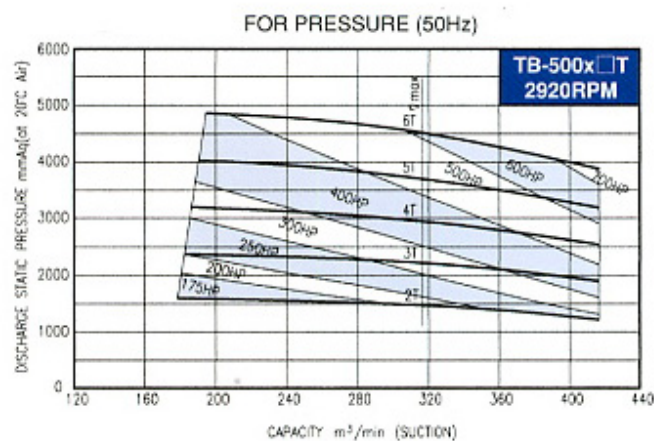
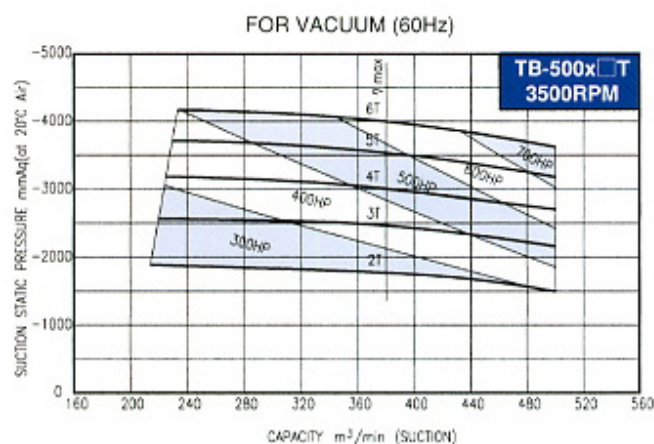
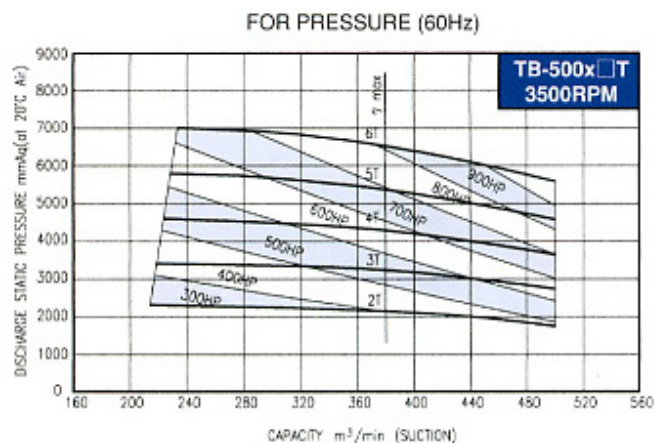


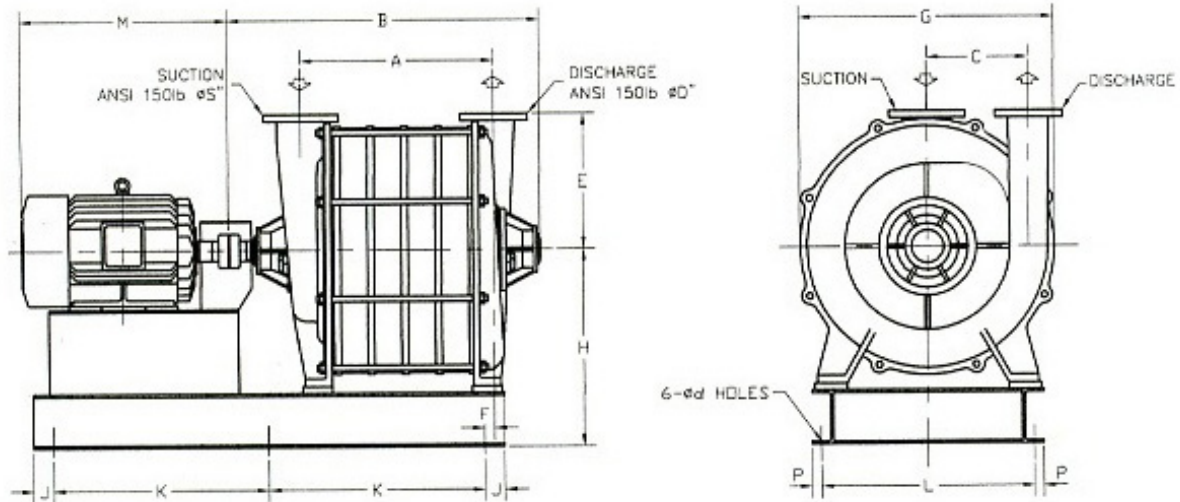












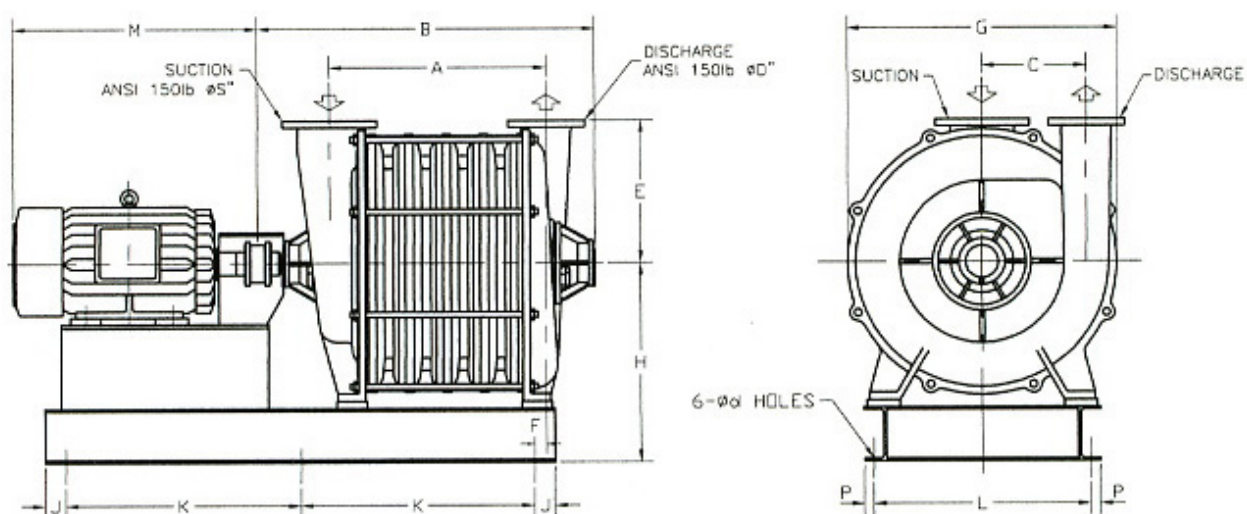
MODEL	ΦS"	ΦD"	A	B	C	E	F	G	H	J	K	L	P	Φd
TB-100x2T	Φ4"	Φ3"	259	574	290	375	25	730	495	75	400	630	20	15
TB-100x3T	Φ4"	Φ3"	345	660	290	375	25	730	495	75	450	630	20	15
TB-100x4T	Φ4"	Φ3"	431	746	290	375	25	730	520	75	550	630	30	19
TB-100x5T	Φ4"	Φ3"	517	832	290	375	25	730	520	75	600	630	30	19
TB-100x6T	Φ4"	Φ3"	603	918	290	375	25	730	545	75	650	630	30	24
TB-100x7T	Φ4"	Φ3"	689	1004	290	375	25	730	545	75	700	630	30	24
TB-100x8T	Φ4"	Φ3"	775	1090	290	375	25	730	545	75	750	630	30	24

MODEL	ΦS"	ΦD"	A	B	C	E	F	G	H	J	K	L	P	Φd
TB-125x2T	Φ5"	Φ4"	297	614	320	430	15	810	570	50	500	680	30	19
TB-125x3T	Φ5"	Φ4"	399	716	320	430	15	810	570	50	550	680	30	19
TB-125x4T	Φ5"	Φ4"	501	818	320	430	15	810	570	50	600	680	30	19
TB-125x5T	Φ5"	Φ4"	603	920	320	430	15	810	595	50	700	680	30	24
TB-125x6T	Φ5"	Φ4"	705	1022	320	430	15	810	595	50	750	680	30	24
TB-125x7T	Φ5"	Φ4"	807	1124	320	430	15	810	595	50	800	680	30	24
TB-125x8T	Φ5"	Φ4"	909	1226	320	430	15	810	595	50	850	680	30	24

MODEL	ΦS"	ΦD"	A	B	C	E	F	G	H	J	K	L	P	Φd
TB-150x2T	Φ6"	Φ5"	340	790	375	500	40	940	675	75	550	790	35	24
TB-150x3T	Φ6"	Φ5"	465	915	375	500	40	940	675	75	650	790	35	24
TB-150x4T	Φ6"	Φ5"	590	1040	375	500	40	940	675	75	725	790	35	24
TB-150x5T	Φ6"	Φ5"	715	1165	375	500	40	940	725	75	800	790	35	24
TB-150x6T	Φ6"	Φ5"	840	1290	375	500	40	940	725	75	900	790	35	24
TB-150x7T	Φ6"	Φ5"	965	1415	375	500	40	940	725	75	950	790	35	24
TB-150x8T	Φ6"	Φ5"	1090	1540	375	500	40	940	725	75	1025	790	35	24

MOTOR HP	5	7.5	10	15	20	25	30	40	50	60	75	100	125	150
M	392	455	455	608	608	652	672	710	775	775	786	853	891	966

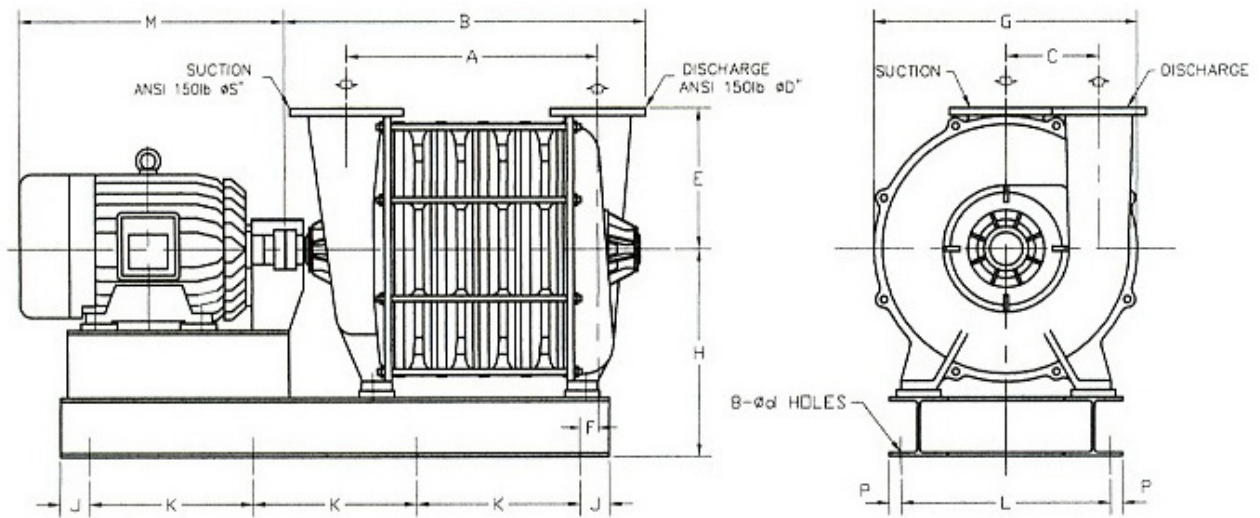
Castle Blower



MODEL	ΦS"	ΦD"	A	B	C	E	F	G	H	J	K	L	P	Φd
TB-200x2T	Φ8"	Φ6"	381	821	380	525	45	980	685	75	600	790	35	24
TB-200x3T	Φ8"	Φ6"	517	957	380	525	45	980	685	75	675	790	35	24
TB-200x4T	Φ8"	Φ6"	653	1093	380	525	45	980	735	75	750	790	35	24
TB-200x5T	Φ8"	Φ6"	789	1229	380	525	45	980	735	75	850	790	35	24
TB-200x6T	Φ8"	Φ6"	925	1365	380	525	45	980	785	75	925	800	75	28
TB-200x7T	Φ8"	Φ6"	1061	1501	380	525	45	980	785	75	1000	800	75	28
TB-200x8T	Φ8"	Φ6"	1197	1637	380	525	45	980	785	75	1075	800	75	28

MODEL	ΦS"	ΦD"	A	B	C	E	F	G	H	J	K	L	P	Φd
TB-250x2T	Φ10"	Φ8"	460	900	395	575	65	1070	775	100	650	800	50	24
TB-250x3T	Φ10"	Φ8"	625	1065	395	575	65	1070	775	100	750	800	50	24
TB-250x4T	Φ10"	Φ8"	790	1230	395	575	65	1070	775	100	900	800	50	24
TB-250x5T	Φ10"	Φ8"	955	1395	395	575	65	1070	775	100	1000	800	50	24
TB-250x6T	Φ10"	Φ8"	1120	1560	395	575	65	1070	825	100	1100	800	50	28
TB-250x7T	Φ10"	Φ8"	1285	1725	395	575	65	1070	825	100	1150	800	50	28
TB-250x8T	Φ10"	Φ8"	1450	1890	395	575	65	1070	825	100	1250	800	50	28

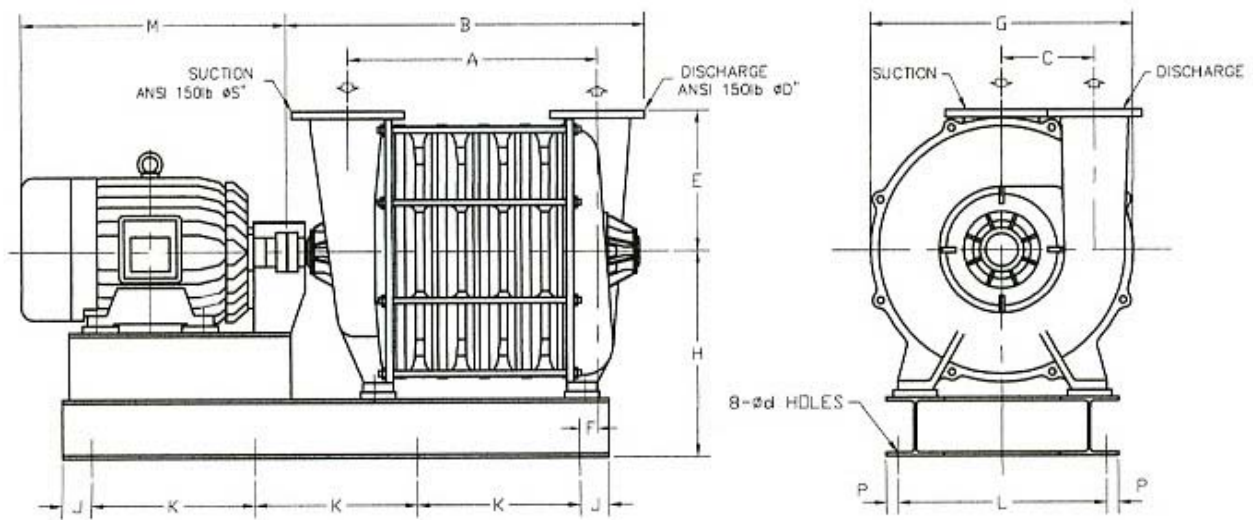
MOTOR HP	25	30	40	50	60	75	100	125	150	175	200	250	300	350
M	652	672	710	775	775	786	853	891	966	1017	1056	1107	1545	1735



MODEL	ΦS"	ΦD"	A	B	C	E	F	G	H	J	K	L	P	Φd
TB-300x2T	Φ12"	Φ10"	535	1005	400	600	80	1130	880	125	500	900	50	28
TB-300x3T	Φ12"	Φ10"	715	1185	400	600	80	1130	880	125	600	900	50	28
TB-300x4T	Φ12"	Φ10"	895	1365	400	600	80	1130	880	125	650	900	50	28
TB-300x5T	Φ12"	Φ10"	1075	1545	400	600	80	1130	880	125	700	900	50	28
TB-300x6T	Φ12"	Φ10"	1255	1725	400	600	80	1130	930	125	850	900	50	28
TB-300x7T	Φ12"	Φ10"	1435	1905	400	600	80	1130	930	125	975	900	50	28

MODEL	ΦS"	ΦD"	A	B	C	E	F	G	H	J	K	L	P	Φd
TB-350x2T	Φ14"	Φ12"	630	1173	430	650	80	1230	930	80	580	1000	50	28
TB-350x3T	Φ14"	Φ12"	850	1373	430	650	80	1230	930	100	650	1000	50	28
TB-350x4T	Φ14"	Φ12"	1030	1573	430	650	80	1230	930	100	820	1000	50	28
TB-350x5T	Φ14"	Φ12"	1230	1773	430	650	80	1230	980	125	950	1000	75	28
TB-350x6T	Φ14"	Φ12"	1430	1973	430	650	80	1230	980	125	1050	1000	75	28
TB-350x7T	Φ14"	Φ12"	1630	2173	430	650	80	1230	1030	125	1100	1050	75	28

MOTOR HP	75	100	125	150	175	200	250	300	350	400	450	500	600	700
M	786	853	891	966	1017	1056	1107	1545	1735	1735	1769	1769	1770	1770



MODEL	ΦS"	ΦD"	A	B	C	E	F	G	H	J	K	L	P	Φd
TB-400x2T	Φ16"	Φ14"	745	1355	440	690	50	1310	1030	100	650	1200	50	28
TB-400x3T	Φ16"	Φ14"	995	1605	440	690	50	1310	1030	100	750	1200	50	28
TB-400x4T	Φ16"	Φ14"	1245	1855	440	690	50	1310	1030	100	850	1200	50	28
TB-400x5T	Φ16"	Φ14"	1495	2105	440	690	50	1310	1030	100	950	1200	50	28
TB-400x6T	Φ16"	Φ14"	1745	2355	440	690	50	1310	1030	100	1050	1200	50	28

MODEL	ΦS"	ΦD"	A	B	C	E	F	G	H	J	K	L	P	Φd
TB-500x2T	Φ20"	Φ18"	930	1570	470	760	0	1450	1100	100	700	1300	50	28
TB-500x3T	Φ20"	Φ18"	1260	1900	470	760	0	1450	1100	100	800	1300	50	28
TB-500x4T	Φ20"	Φ18"	1590	2230	470	760	0	1450	1100	100	950	1300	50	28
TB-500x5T	Φ20"	Φ18"	1920	2560	470	760	0	1450	1100	100	1050	1300	50	28
TB-500x6T	Φ20"	Φ18"	2250	2890	470	760	0	1450	1100	100	1200	1300	50	28

MOTOR HP	150	175	200	250	300	350	400	450	500	600	700	800	900	
M	966	1017	1056	1107	1545	1735	1735	1769	1769	1770	1770	1957	1957	

- Cutter Blower
- Gas Tight Blower
- Conveyor Blower
- Low Noise Blower
- Explosion Proof Blower
- Wear-Resistance Blower
- Corrosion-Resistance Blower
- High Temperature Resistance Blower

- OPTI Belt, Made in Germany; SKF Bearing, Made in Sweden
- Pulley with Taper Bush
- Patent Impeller Hub Nuts,
No Puller Required to Assemble and Disassemble
- Dynamic Balance Grade: ISO G2.5



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