

APEX DARGANG

VACUUM PUMP

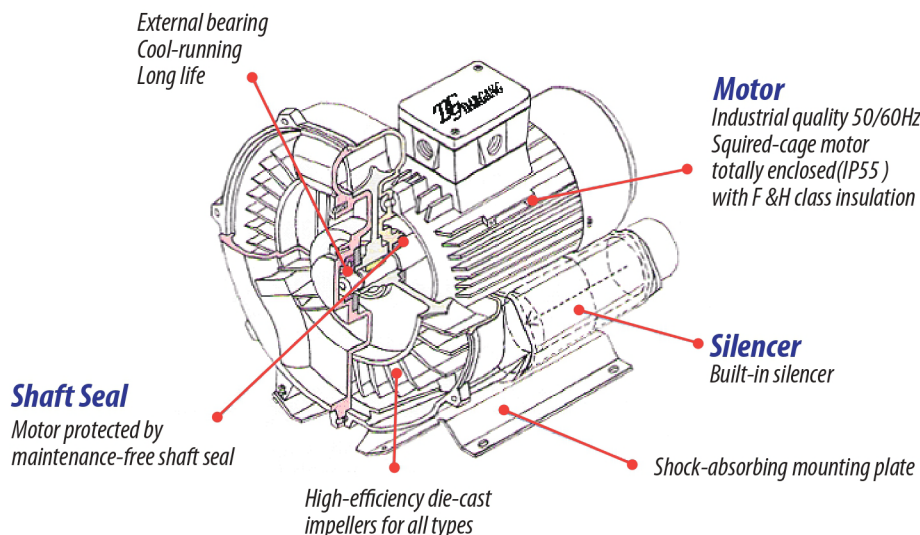
Single Stage / Double Stage Vacuum Pump



DG DARGANG

APEX DARGANG MACHINERY CORPORATION

Apex Dargang Vacuum Pump Construction



Vacuum Pump Specific

Easy to install

The Vacuum Pump is a complete unit ready for immediate installation either as a vacuum pump or as a compressor. The unit can be mounted in any position, horizontally or vertically.

Rugged, the cast for the impeller and the motor are individual to be made by aluminum. The Vacuum Pump has the highly-developed design which results in a pump construction with one moving part, a feature ensuring maximum operating reliability. Maintenance free!

No oily odors

The impeller rotates with absolutely no contact between it and the housing. This means no lubrication is required, guaranteeing 100% oil-free operation.

Low Noise and Vibration

The use of direct-driving low-noise motors and integral silencers ensure a low noise level. Dynamic balancing minimizes vibration.

High Efficiency

Under serious QC control, the parts used in Vacuum Pump are of top quality. All Vacuum Pump are made by professional technicians.

Stock Code

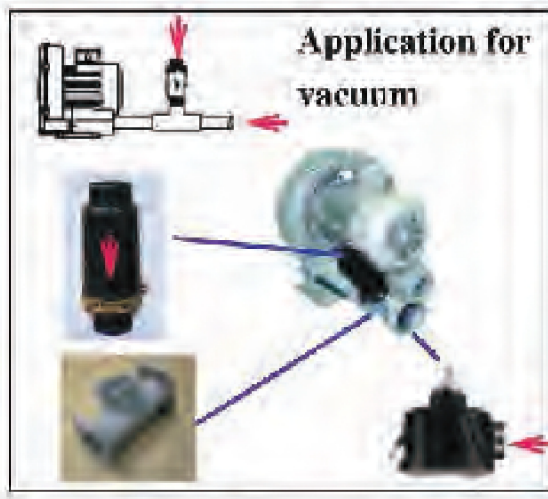
Single Phase

881101001 - HB129S
881101002 - HB229S
881101029 - HB329S
881101026 - HB429S

Three Phase

881101031 - HB129	881101025 - HB629	881101011A - HB4337	881101013A - HB6375
881101004A - HB329	881101023 - HB729	881101032 - HB4346	881101021 - HB6475
881101027 - HB429	881101030 - HB829	881101022 - HB6364	881101019 - HB8310
881101028 - HB529	881101016A - HB929	881101012A - HB6355	881101020 - HB8315

Application For Vacuum Pump



Single Phase AC | IP55 | 50Hz

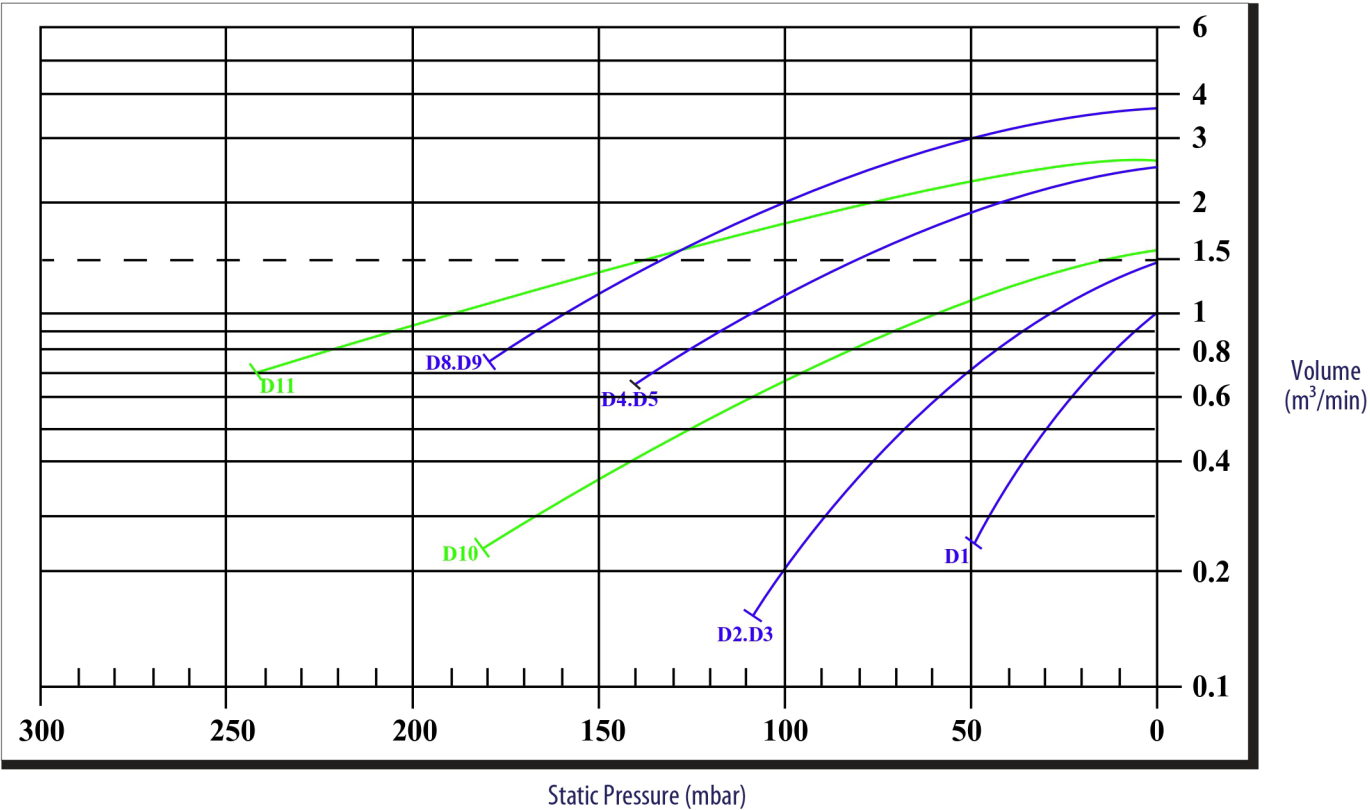
Model	Curve No.	Frequency (Hz)	Output (kW)	Speed (rpm/min)	Voltage (V)	Current (A)	Vacuum / Compressor (mbar)	Max Airflow (m ³ /min)	Noise (dB)A	Weight (kg)
HB-129-S	D1	50	0.18	2850	200-240	1.25	50	1.0	52	6.5
HB-229-S	D2	50	0.4	2850	200-240	2.90	110	1.5	58	11.5
HB-229W-S	D3	50	0.4	2850	200-240	2.90	110	1.5	58	12
HB-329-S	D4	50	0.75	2850	200-240	5.80	140	2.6	63	16
HB-329W-S	D5	50	0.75	2850	200-240	5.80	140	2.5	63	16.5
HB-429-S	D8	50	1.5	2850	200-240	10.0	180	3.7	70	26
HB-429W-S	D9	50	1.5	2850	200-240	10.0	180	3.7	70	26.5
HB-2308-S	D10	50	0.75	2850	200-240	4.50	180	1.6	60	17.5
HB-3315-S	D11	50	1.5	2850	200-240	10.0	240	2.6	66	28.5

50Hz / Single Phase Curve

Vacuum

50Hz (Single Stage)

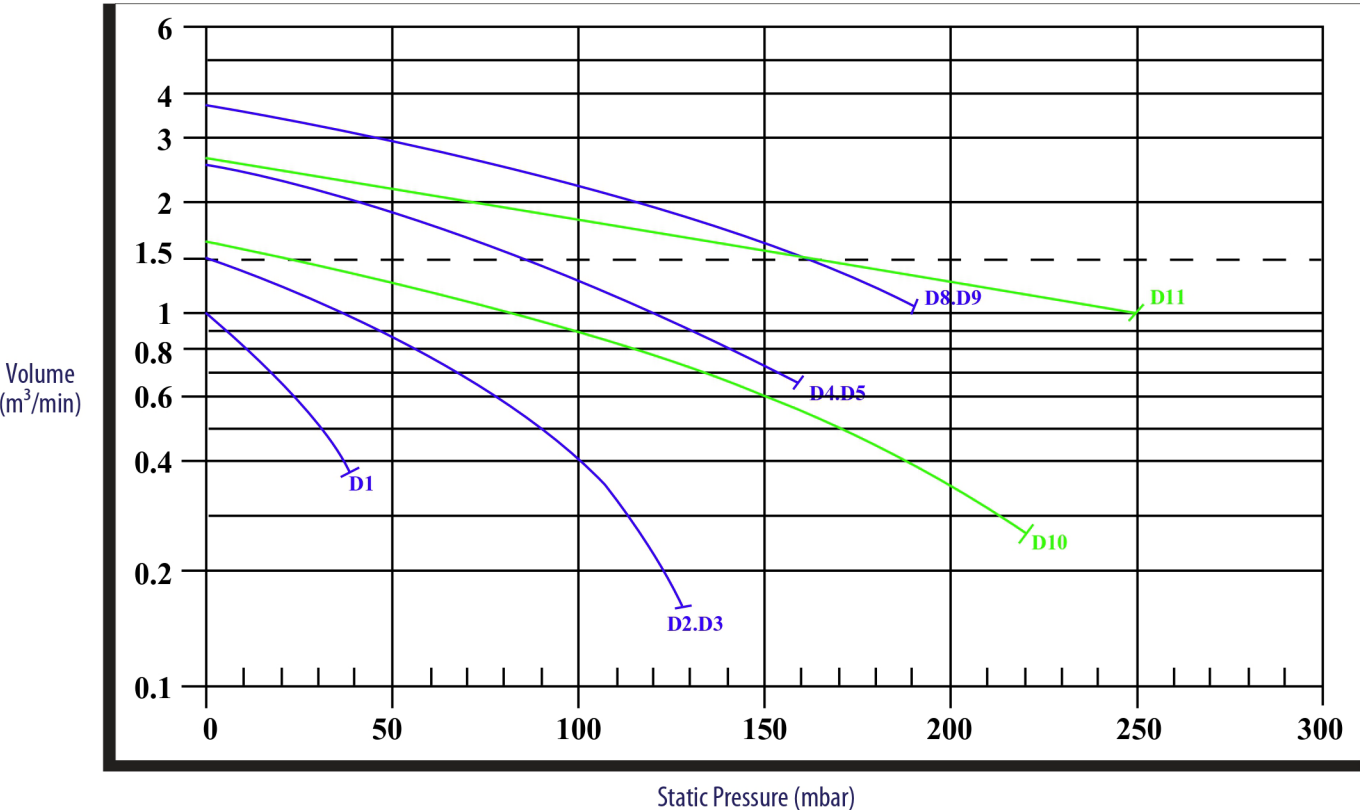
50Hz (Two Stage)



Compressor

50Hz (Single Stage)

50Hz (Two Stage)



Three Phase AC | IP55 | 50Hz

Model	Curve No.	Frequency (Hz)	Output (kW)	Voltage (V)	Current (A)	Static Pressure Vacuum / Compressor (mbar)	Max Airflow (m³/min)	Noise (dB)A	Weight (Kg)
HB-129	D12	50	0.18	200-240 Δ/345-415Y	1.20Δ/0.69Y	50/60	1	52	6.5
HB-229	D13	50	0.4	200-240 Δ/345-415Y	2.20Δ/1.30Y	110/130	1.5	58	10.5
HB-329	D15	50	0.75	200-240 Δ/345-415Y	3.70Δ/2.14Y	140/140	2.6	63	14
HB-339	D16	50	0.9	200-240 Δ/345-415Y	4.20Δ/2.40Y	165/180	2.6	63	15.5
HB-349	D19	50	1.3	200-240 Δ/345-415Y	4.60Δ/2.65Y	175/200	2.6	63	16
HB-429	D22	50	1.75	200-240 Δ/345-415Y	6.70Δ/3.90Y	210/220	3.7	70	23
HB-439	D25	50	2.2	200-240 Δ/345-415Y	7.80Δ/4.50Y	220/270	3.7	70	26
HB-529	D26	50	2.2	200-240 Δ/345-415Y	9.70Δ/5.60Y	220/210	5.5	72	32
HB-629	D29	50	3.4	200-240 Δ/345-415Y	12.5Δ/7.20Y	255/270	5.5	72	34
HB-639	D31	50	4	200-240 Δ/345-415Y	14.3Δ/8.20Y	270/320	5.5	72	37
HB-729	D32	50	5.5	200-240 Δ/345-415Y	25.3Δ/14.6Y	270/290	9.5	74	77
HB-829	D33	50	7.5	200-240 Δ/345-415Y	31.5Δ/18.2Y	295/390	9.5	74	88
HB-919	D34	50	9	200-240 Δ/345-415Y	36.0Δ/20.8Y	200/190	18.9	76	100
HB-929	D35	50	13	200-240 Δ/345-415Y	46.8Δ/27.0Y	290/270	18.9	76	112
HB-939	D36	50	20	200-240 Δ/345-415Y	66.7Δ/38.6Y	350/440	18.9	76	159
HB-2308	D37	50	0.75	200-240 Δ/345-415Y	3.70Δ/2.14Y	200/240	1.6	60	17
HB-3319	D38	50	1.75	200-240 Δ/345-415Y	6.70Δ/3.90Y	275/300	2.6	66	25
HB-3326	D39	50	2.2	200-240 Δ/345-415Y	7.80Δ/4.50Y	320/390	2.6	66	28
HB-4337	D40	50	3.4	200-240 Δ/345-415Y	12.5Δ/7.20Y	345/410	3.7	74	40
HB-4346	D41	50	4	200-240 Δ/345-415Y	14.3Δ/8.20Y	355/460	3.7	74	43
HB-6346	D42	50	4	200-240 Δ/345-415Y	14.3Δ/8.20Y	350/350	5.5	75	55
HB-6355	D43	50	5.5	200-240 Δ/345-415Y	21.6Δ/12.5Y	410/500	5.5	75	72
HB-6375	D44	50	7.5	200-240 Δ/345-415Y	31.5Δ/18.2Y	420/580	5.5	75	82
HB-6455	D45	50	5.5	200-240 Δ/345-415Y	25.3Δ/14.6Y	200/220	7.9	75	72
HB-6475	D46	50	7.5	200-240 Δ/345-415Y	31.5Δ/18.2Y	240/275	7.9	75	82
HB-8310	D47	50	7.5	200-240 Δ/345-415Y	31.5Δ/18.2Y	350/350	9.5	76	112
HB-8315	D48	50	13	200-240 Δ/345-415Y	46.8Δ/27.0Y	430/600	9.5	76	142
HB-8320	D49	50	20	200-240 Δ/345-415Y	66.7Δ/38.6Y	450/700	9.6	76	160
HB-8410	D50	50	7.5	200-240 Δ/345-415Y	31.5Δ/18.2Y	180/145	14.2	76	110
HB-8415	D51	50	13	200-240 Δ/345-415Y	46.8Δ/27.0Y	250/250	14.2	76	140

Remarks :

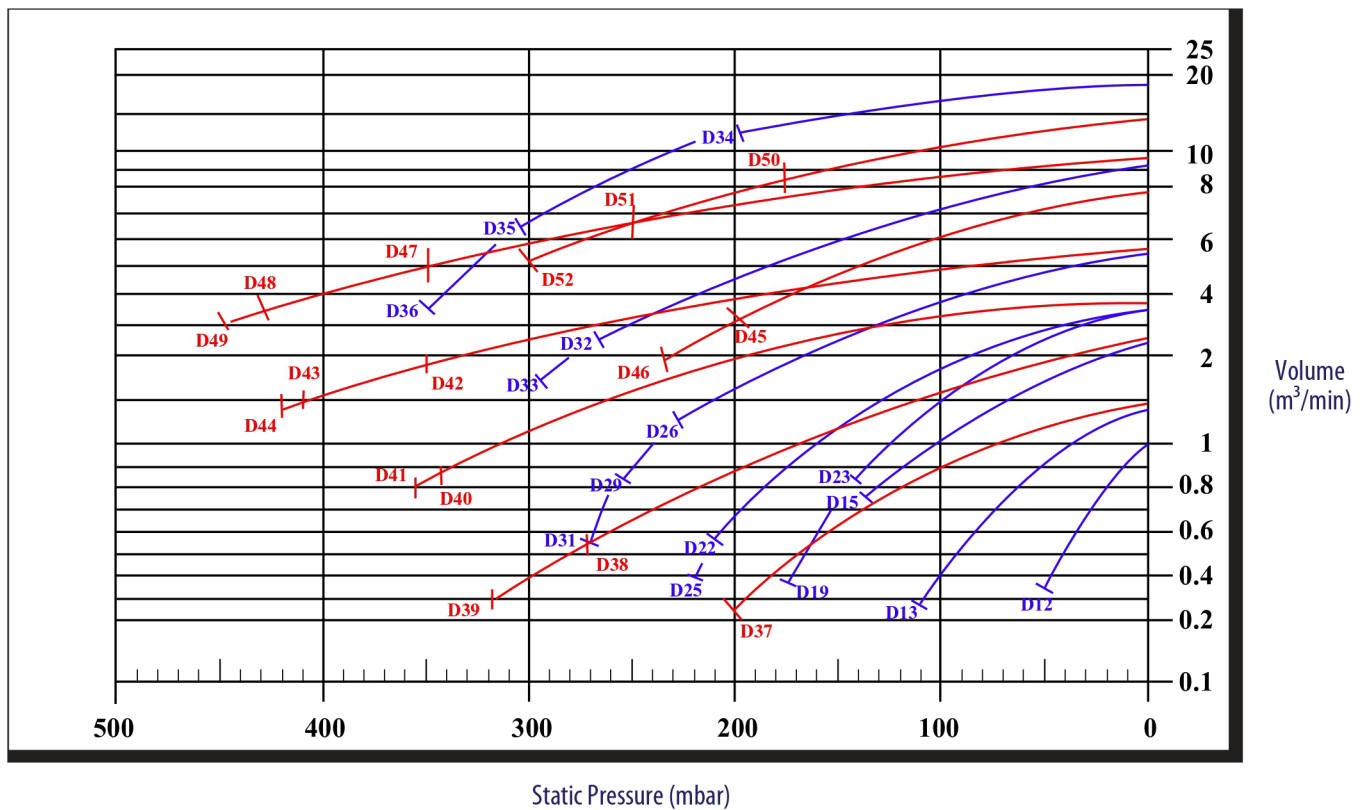
1. Information above is for reference, product only when different.
2. We reserve the right to change the design without notice.
3. Should you require any further information or assistance, please do not hesitate to contact us or distributors.

50Hz / Three Phase Curve

Vacuum

50Hz (Single Stage)

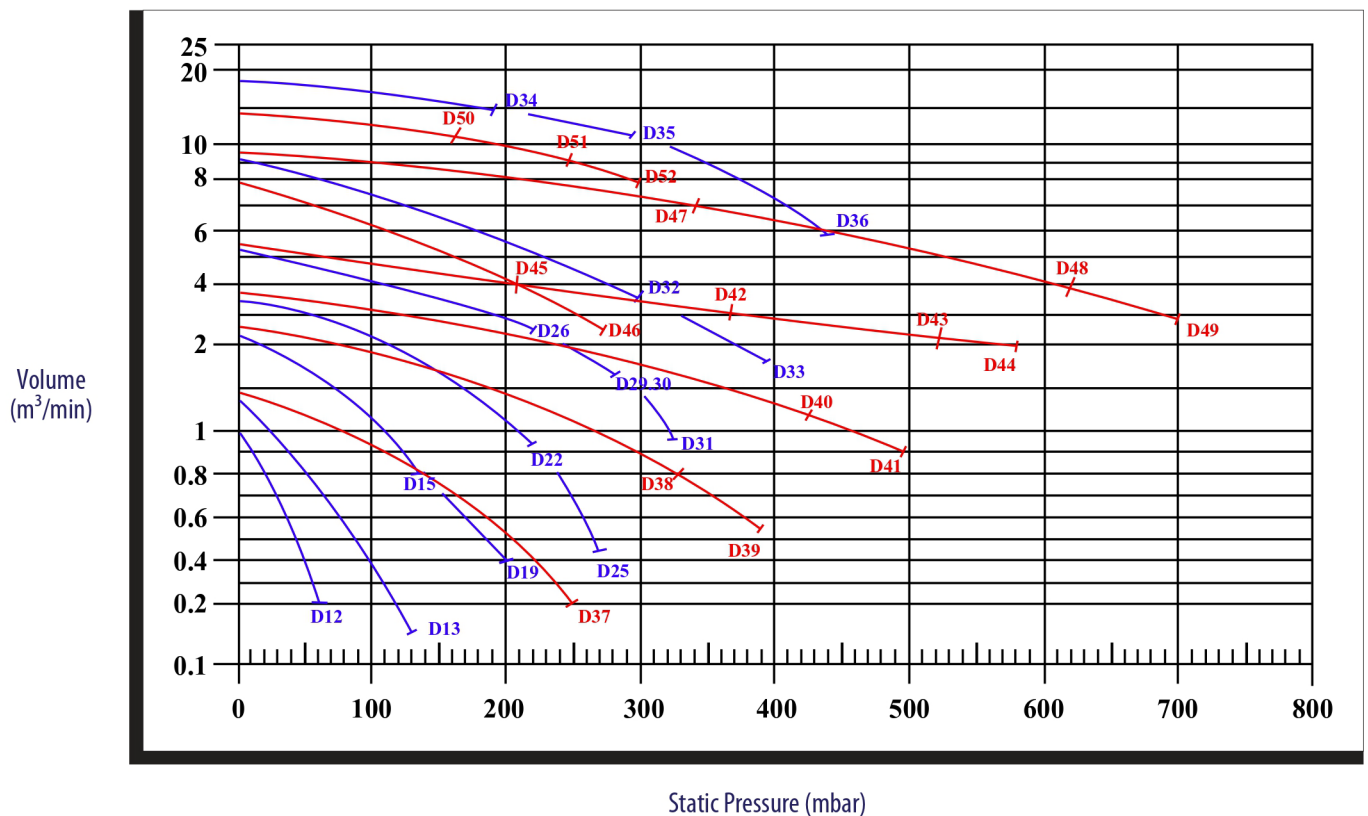
50Hz (Two Stage)



Compressor

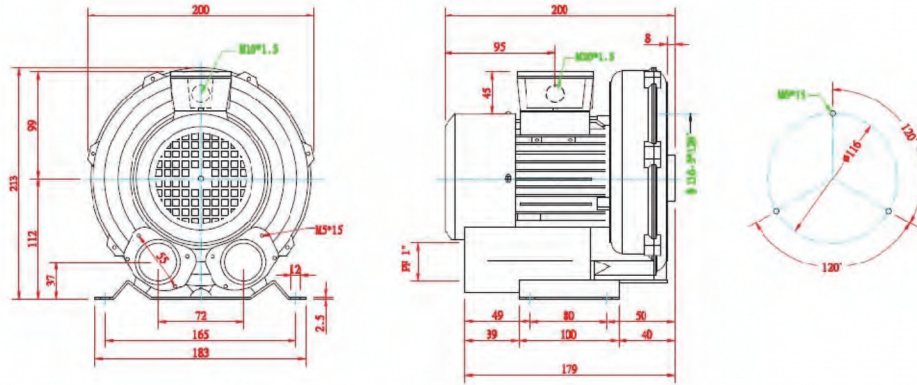
50Hz (Single Stage)

50Hz (Two Stage)



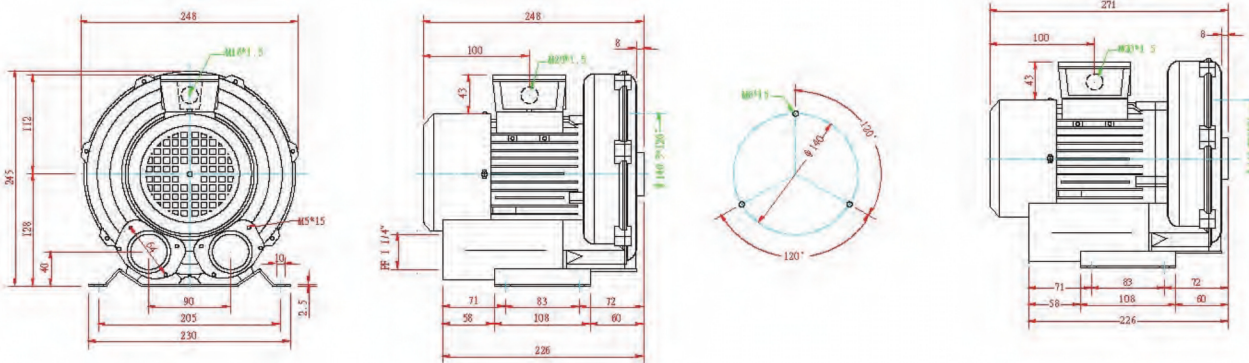
Dimensions

HB-129-S (Series) HB-129



HB-229-S (Series) HB-229

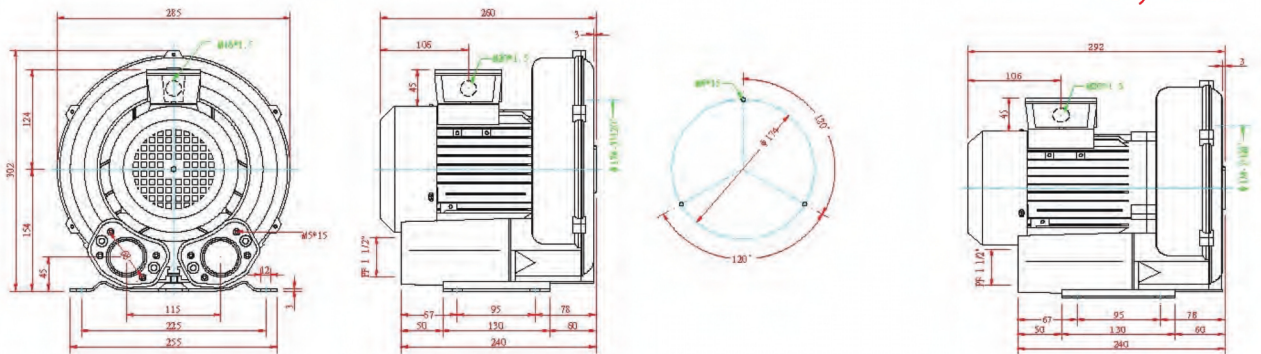
only HB-229 **W



HB-329-S (Series)

HB-329
HB-329-1
HB-339
HB-349

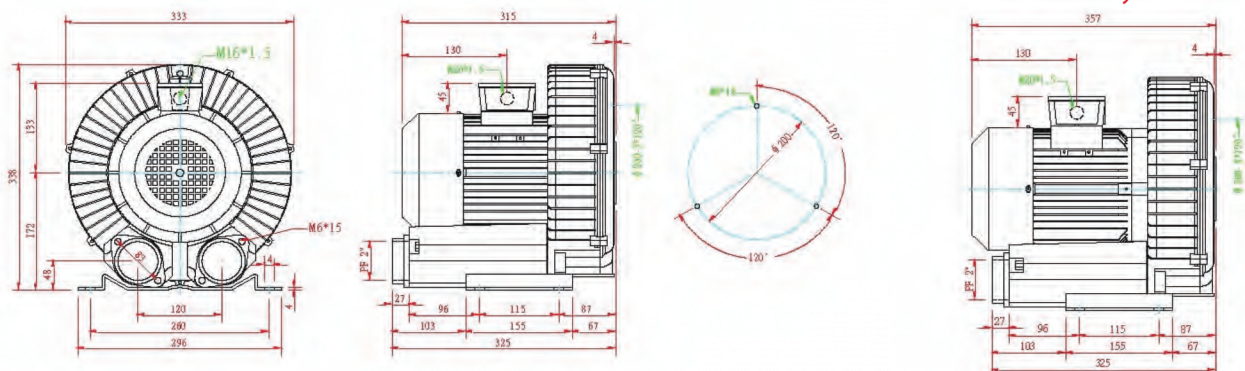
only HB-329 **W



HB-429-2-S (Series)

HB-429-S
HB-429-1
HB-429-2
HB-429
HB-429-9
HB-429L
HB-439

only HB-429 **W



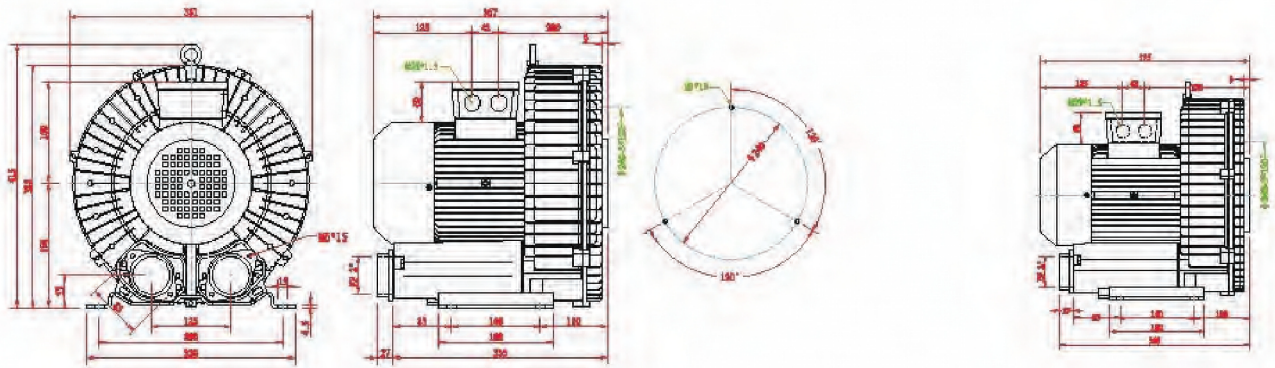
Dimensions

HB-529 (Series)

HB-629

HB-639

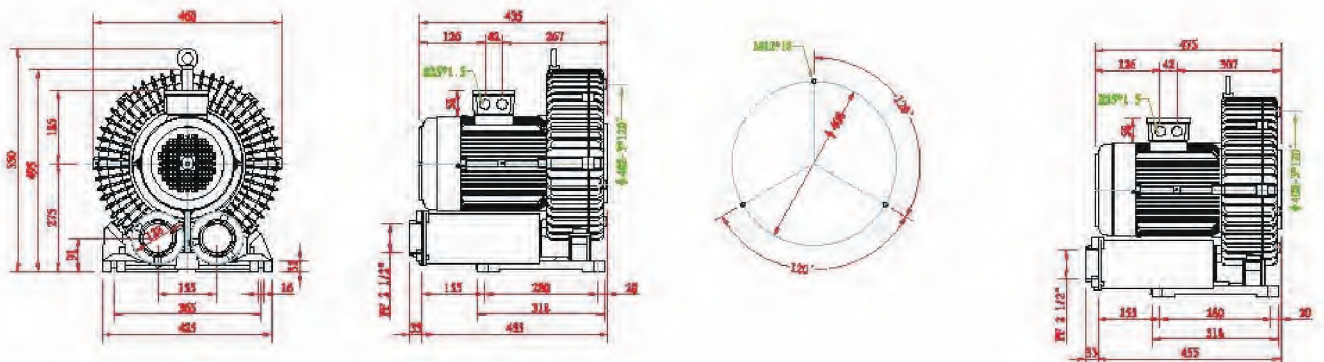
*only HB-529 **W*



HB-729 (Series)

HB-829

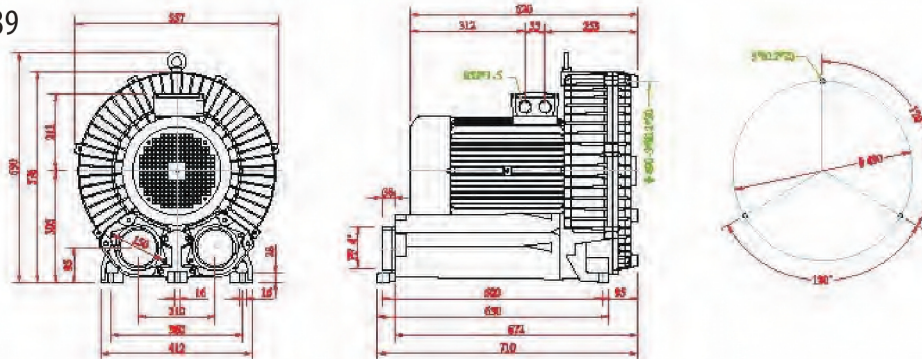
*only HB-729 **W*



HB-919 (Series)

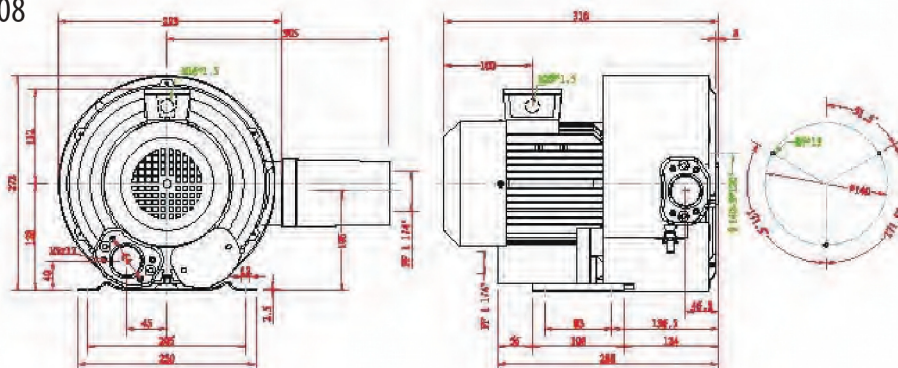
HB-929

HB-939



HB-2308-S (Series)

HB-2308

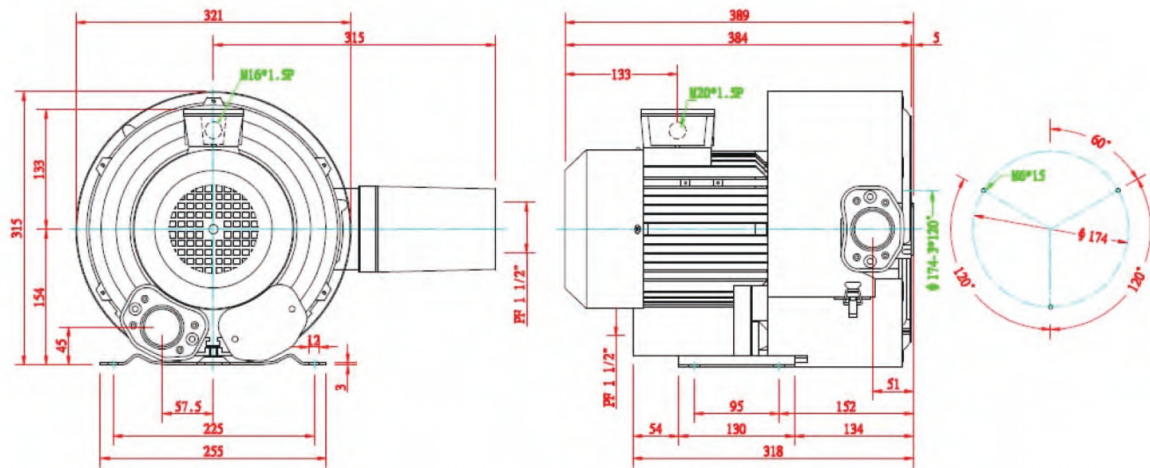


Dimensions

HB-3315-S (Series)

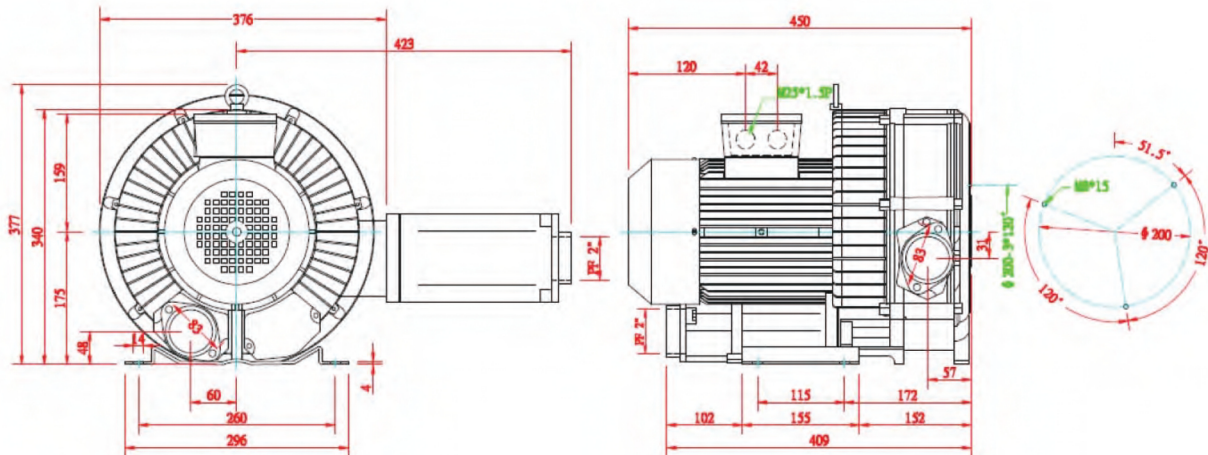
HB-3319

HB-3326



HB-4337 (Series)

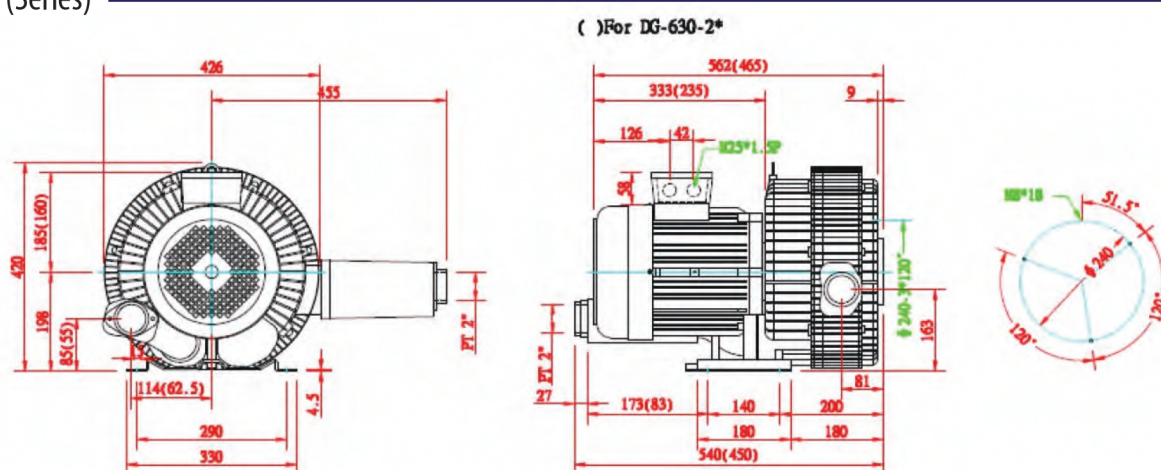
HB-4346



HB-6346 (Series)

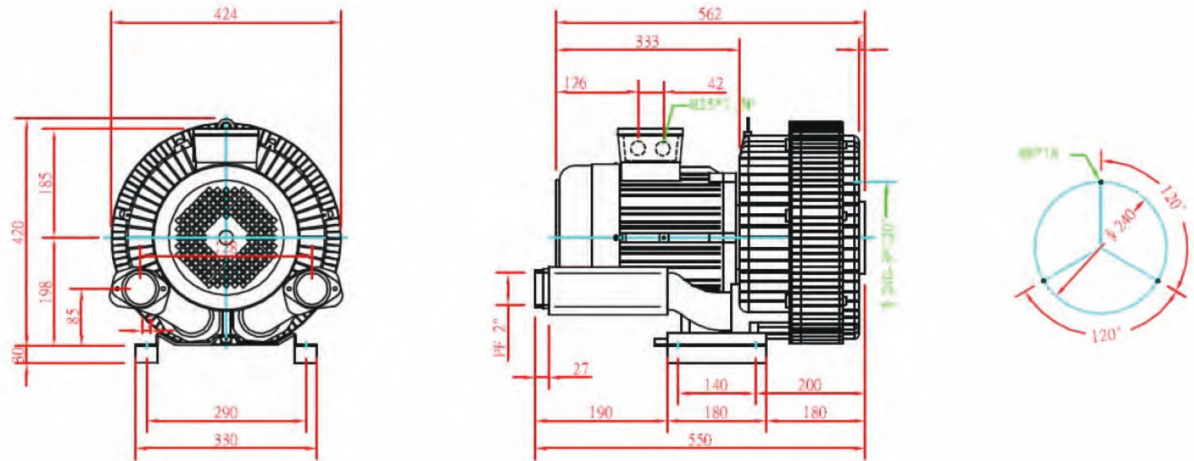
HB-6355

HB-6375

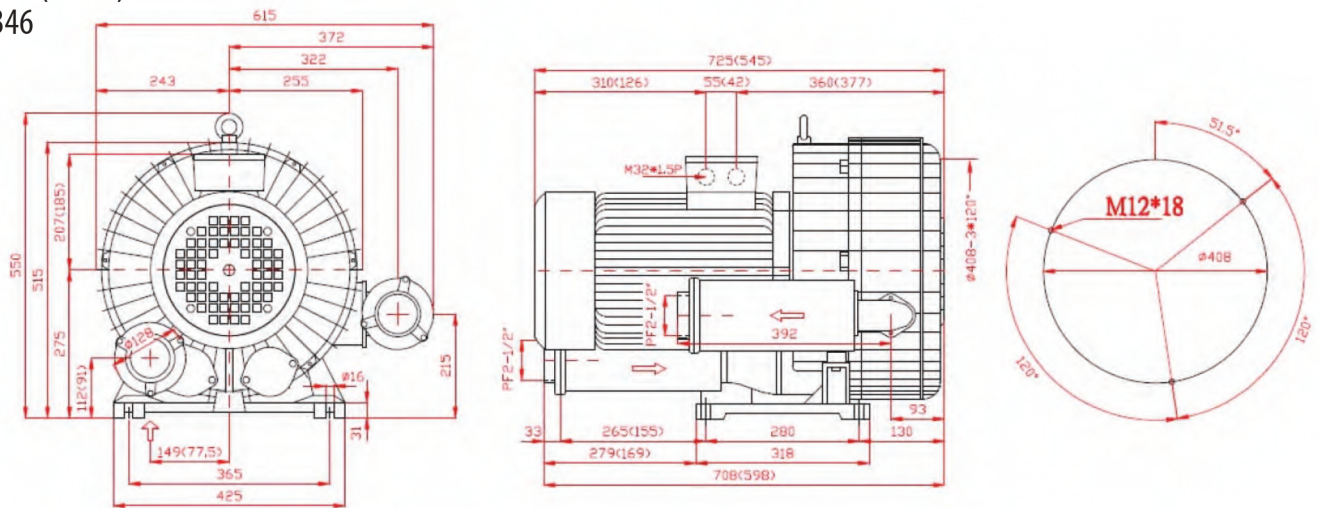


Dimensions

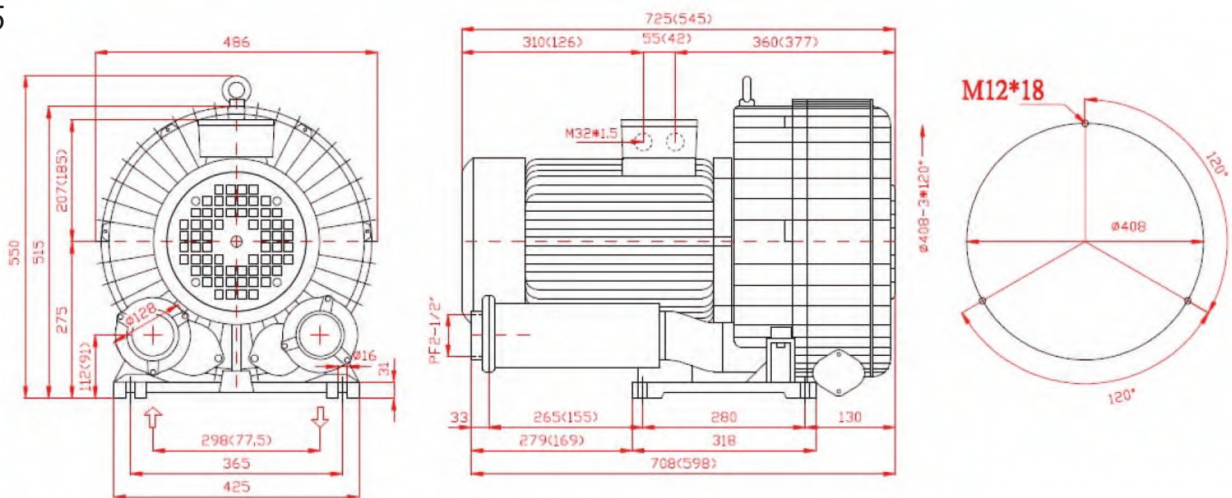
HB-6455 (Series)
HB-6475



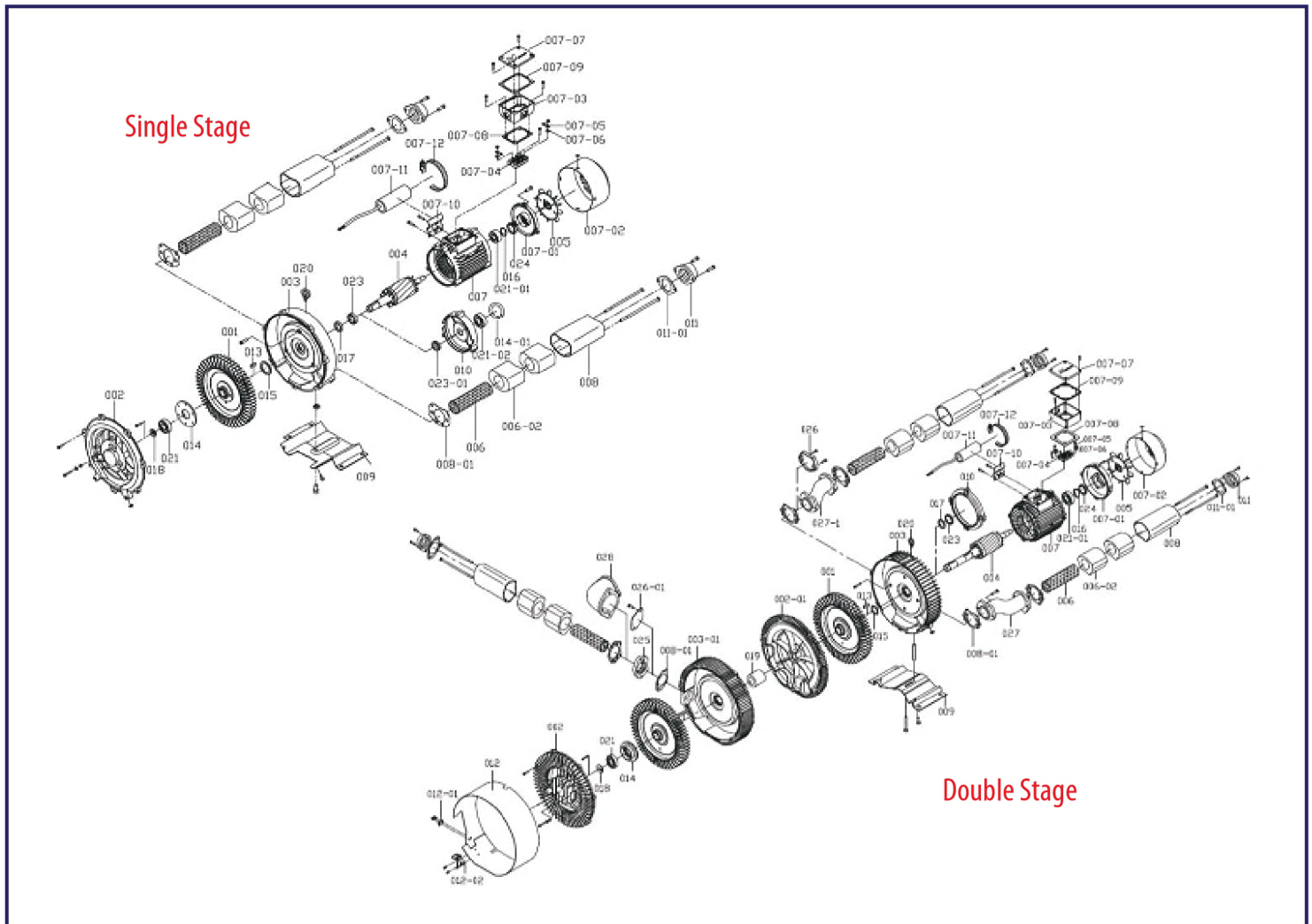
HB-4337 (Series)
HB-4346



HB-8410 (Series)
HB-8415



Parts Illustration



ITEM	PARTS NAME	ITEM	PARTS NAME	ITEM	PARTS NAME
001	Impeller	007-08	Terminal box washer	015	Washer
002	Compressor cover	007-09	Terminal cover washer	016	Ware washer
002-01	Middle compressor cover	007-10	Capacitor washer	017	Cotton seal
003	Compressor housing	007-11	Capacitor	018	Washer
003-01	Middle compressor housing	007-12	Steel clip	020	Bronze ring
004	Rotor	008	Silencer housing	021	Front bearing
005	Fan	008-01	Silencer washer	021-01	Rear bearing
006	Silencer mesh pipe	009	Mounting plate	021-02	Front bearing
006-02	Silencer sponge	010	Middle motor cover	023	Front oil seal
007	Motor	011	Inlet/outlet	023-01	VA-seal
007-01	Motor cover	011-01	Inlet/outlet washer	024	Rear oil seal
007-02	Fan cover	012	Protection steel skin	025	Silencer socket
007-03	Terminal box	012-01	Buckle (up)	026	Outlet cover
007-04	Wire socket	012-02	Buckle (down)	026-01	Cover
007-05	Wire connection slice	013	Rotor pin	027	Extend pipe
007-06	Fixed slice	014	Bearing washer	027-01	Extend pipe
007-07	Terminal cover	014-01	Bearing washer	028	90°extend pipe

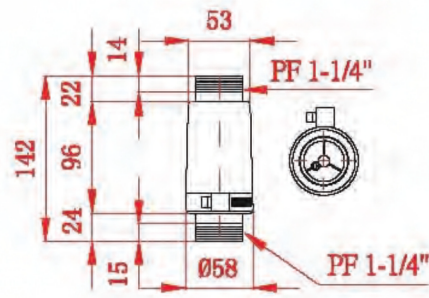
* Please notify model + parts item when you purchase.

* We reserve the right to change the design without notice.

Accessories

Relief Valve

Type	PF	L (mm)	Dimension
RV-01	1 1/4"	142	0~3000mmAq
RV-02	1 1/4"	142	0~6000mmAq

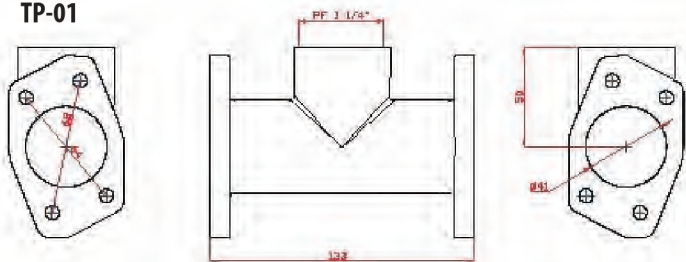


Tee Pipe (mm)

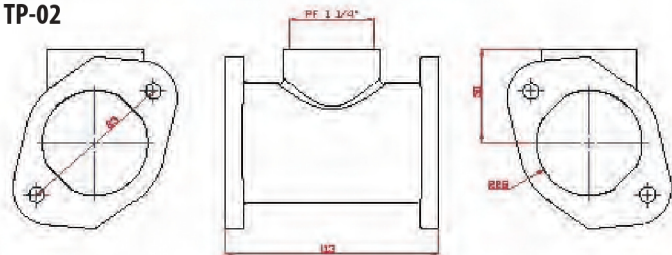
Type	Application
TP-01	HB-229-S, 229, 2308-S, 2308, 329-S, 329, 329-1, 339, 349, 3315-S, 3319, 3326 (Serial)
TP-02	HB-429-9-S, 429-S, 429-1, 429-2, 429, 429-9, 429L, 439, 4337, 4346, 529, 629, 639, 6346, 6355, 6375, 6455, 6475 (Serial)



TP-01



TP-02



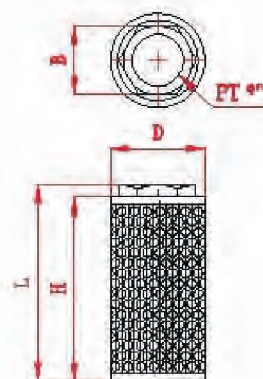
TP-01



TP-02

MF Type Oil Filter

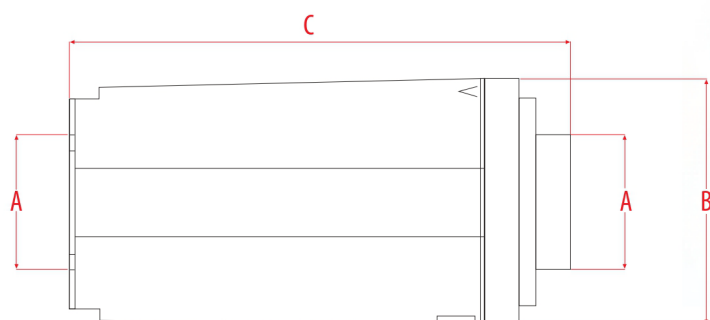
Symbol Type	PT	D (mm)	L (mm)	H (mm)	B (mm)	Filtration Mesh	Weight (kg)
MF-08	1"	58	170	155	42	100	0.20
MF-10	1 1/4"	71	186	170	54	100	0.35
MF-12	1 1/2"	85	196	182	65	100	0.49
MF-16	2"	103	215	202	75	100	0.65
MF-20	2 1/2"	148	274	252	97	100	1.20
MF-32	4"	208	380	357	142	100	2.45



Accessories

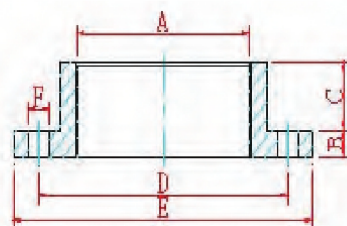
Silenser Housing

Type \ Symbol	A	B	C
SI-01	PF 1 ¼"	83 mm	180 mm
SI-02	PF 1 ½"	98 mm	180 mm
SI-03	PF 2"	117 mm	266 mm
SI-04	PF 2 ½"	145 mm	325 mm



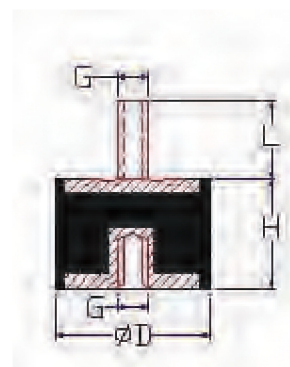
Threaded Flange (mm)

Type \ Symbol	A	B	C	D	E	F
2-011	PF 1 ¼"	7	22	64	79	6
3-011	PF 1 ½"	7	24	68	86	6
6-011	PF 2"	7	18	83	100	7
8-011	PF 2 ½"	15	16	128	144	7
9-011	PF 4"	8	22	150	170	9



Footprint dimension for vertical/horizontal mounting (mm)

Type	D	H	G	L
MFB2520	25	20	M6	12
MFB3025	30	25	M8	15
MFB7540	75	40	M12	20
MFB7545	75	45	M12	37



* If you need other accessories, please contact us or distributors

Unit Conversion Table

Pressure

mmAq	kg /cm ²	mmHg	inHg	PSIG (lb/in ²)	%	Troo	K.pa	mbar
0	0.	0.	0.	0.	0.	760	0.	0.
500	0.05	37	1.45	0.71	48	723	4.90	49
1000	0.1	74	2.89	1.42	9.7	686	9.81	98
1500	0.15	110	4.34	2.13	14.5	650	14.71	147
2000	0.2	147	5.79	2.84	19.3	613	19.61	196
3000	0.3	221	8.68	4.26	29.0	539	29.42	294
5000	0.5	368	14.47	7.10	48.4	392	49.03	490
10000	1.0	735	28.95	14.20	96.7	25	98.07	981
10336	1.0336	760	29.92	14.68	100.0	0	101.36	1014

* same

mmH₂O, mmW.g, mmW.C, mmW.S, kg / m³kp, kg. f / m³, KP / m³

Air Flow

m ³ /min	l/min	CFM ft ³ /min	in ³ /min
0.	0	0.	0
0.005	5	0.18	305
0.01	10	0.35	610
0.02	20	0.71	1220
0.05	50	1.77	3051
0.1	100	3.53	6102
0.2	200	7.06	12205
0.5	500	17.65	30512
1.0	1000	35.3	61024
2.0	2000	70.6	122047
5.0	5000	176.5	305119
10.0	1000	353.0	610237

Air Speed

m/sec	Km/H	in/sec
0	0.	0.
1	3.6	39.4
2	7.2	78.7
5	18.0	196.9
10	36.0	393.7
20	72.0	787.4
50	180.0	1968.5
100	360.0	3937.0
200	720.0	7874.0

Electric Power

W	kW	HP
1	0.001	0.0013
1000	1	1.341
745.7	0.756	1

Single Stage



HB-129 Series



HB-229 Series



HB-329 Series



HB-429 Series



HB-529 Series



HB-729 Series



HB-919 Series



V-Belt series

Double Stage



HB-2308 Series



HB-3315 Series



HB-4337 Series



HB-6346 Series



HB-6455 Series



HB-8310 Series



HB-8410 Series



V-Belt series