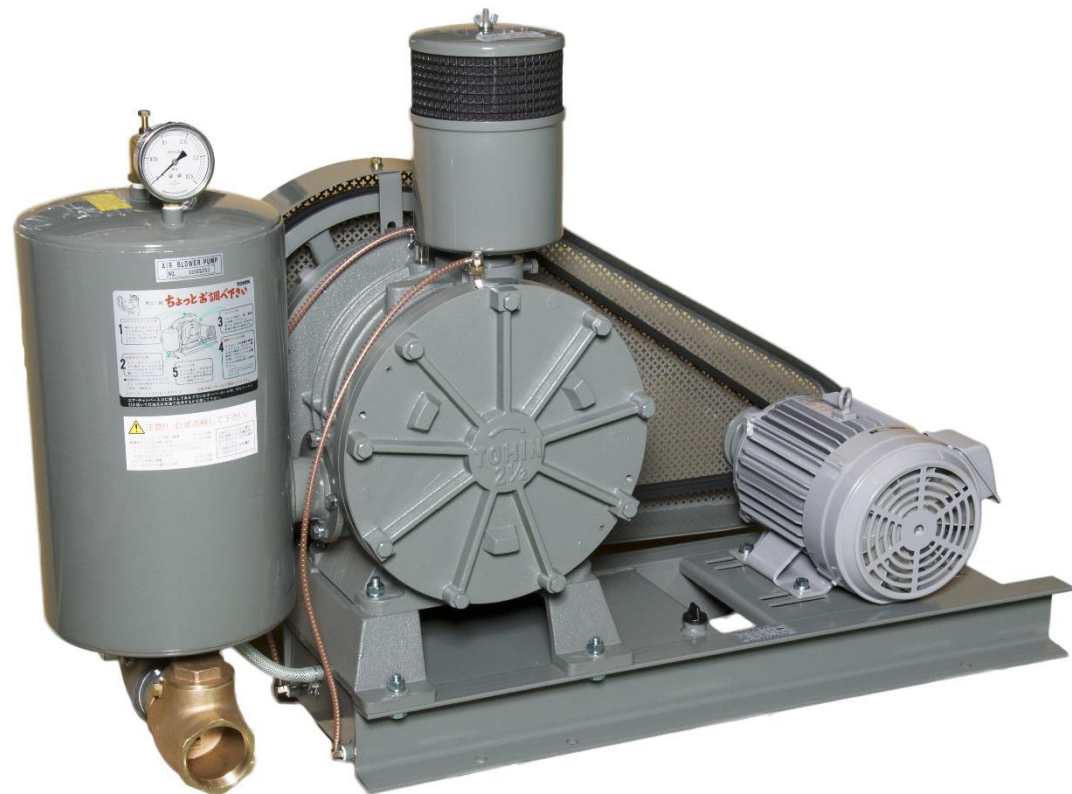


TOHIN

ROTARY BLOWER

SD Series • FD Series • HC Series



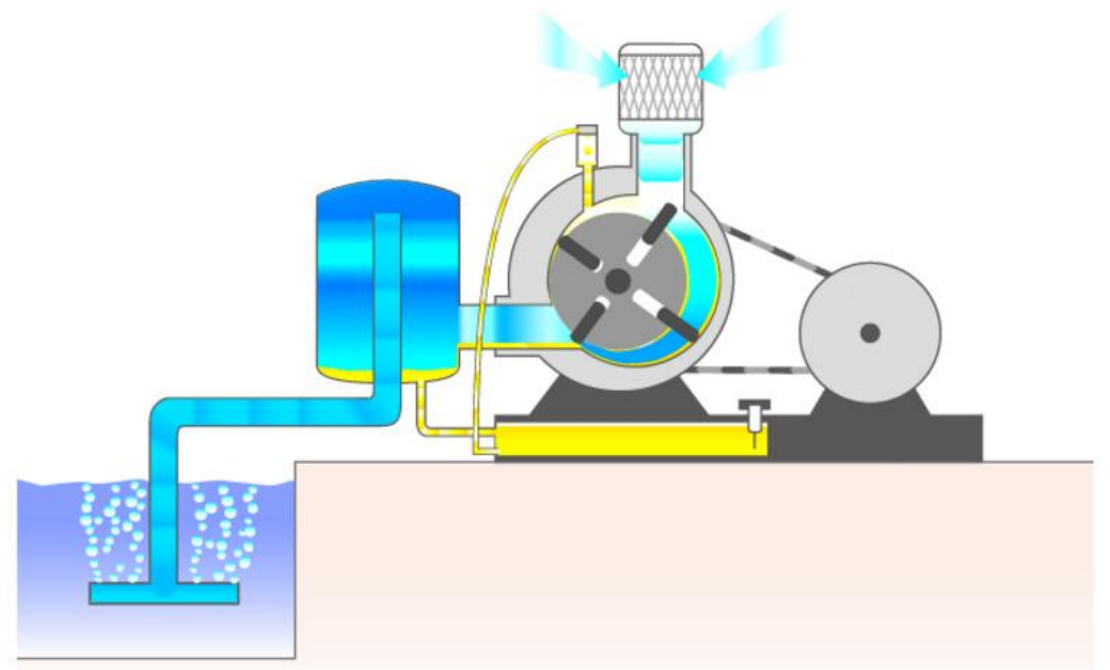
TOHIN VIETNAM INDUSTRY

TOHIN ROTARY VANE BLOWER

- TOHIN is the largest manufacturer of rotary vane blower in Japan having an ample experience and proven results with a long history of more than 50 years.
- A large variety of TOHIN blowers ranging from small to large types manufactured under strict quality management and incessant R&D can meet the requirements of various applications and your full expectations.
- Superior functionality and durability, in particular, quiet operating sound are the fruit of our high technology and experience.
- TOHIN Rotary Vane Blowers have been used for a long time for aeration of on-site wastewater treatment, not only for domestic but also for industrial or community.
- The established production of more than 4 million units is a good proof of reliability.

Mechanism

- Tohin rotary vane blower mainly consists of components such as Blower body (cylinder), Motor, Air chamber, Air filter, Base (with oil tank), and Oil dropping nozzle. This simple structure contributes very long life and trouble-free operation.
- The rotor, which has four pieces of vane moving in-and-out repeatedly, eccentrically rotates in the cylinder to intake, compress, and discharge air. This is the basic mechanism of the blower.
- While running the machine, lubricating oil keeps circulating and continuously supplied to the cylinder through the oil dropping joint. The oil works not only to decrease operation sound and friction heat, but also to keep high airtightness in the cylinder.



Rotary Vane Blower – SD Type



SD-120s
SD-120
SD-150s
SD-200s

**No. 1 Japanese rotary vane blower
Four million units shipment**

- Compact long seller acknowledged as High reliability and Easy of use.
- SD Type rotary vane blowers are very long selling authentic compact products.
- They are widely used such as aeration unit for on-site wastewater treatment system, or for spray device for a combustion unit. Its reliability has been highly appreciated in the market.

Feature

- Unique oiling system that hardly run out lubricating oil in one or two years continuous operation
- Equipped with a check valve to prevent a trouble caused by back water from a tank
- Built-in Safety-relief valve sounds an alarm to prevent motor burnout, when the motor is overloaded by clogging of pipes or diffuser tube.
- Has an auto-stop function (manual reset) to prevent motor burnout
- Has great durability. Air pressure and flow rate will not change in a long time operation.
- Motor and blower can be separated. Therefore it is flexible for modification to meet the requirements

Application

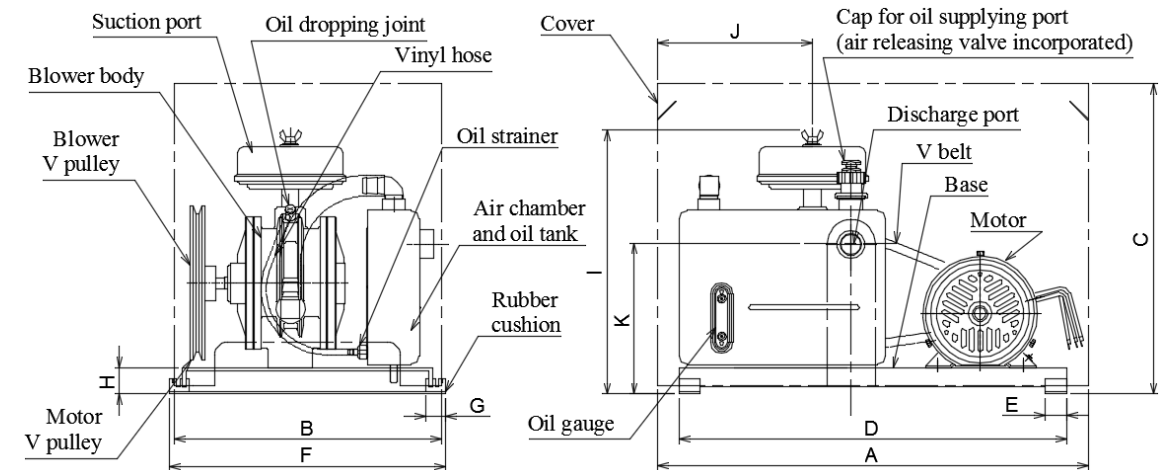
- Aeration for on-site wastewater treatment
- Spraying for fuel oil and kerosene oil burners
- Aeration for fish farm
- Agitation in plating tanks or water tanks
- Air curtain

Specification

Model No.	Dia. of Discharge	Output of motor	Frequency	Blower RPM	Air flowrate (m ³ /min)			V pulley		V Belt	Quantity of oil (effective quantity)	Appox. Weight
					0.01Mpa	0.02Mpa	0.03Mpa	Blower	Motor			
SD-120s	1/2"	150W	50Hz	480	0.124	0.120	0.114	7"	2 1/2"	M-30	600cc (600cc)	25Kg
			60Hz	480	0.124	0.120	0.114	7"	2"	M-30		
SD-120	3/4"	150W	50Hz	480	0.124	0.120	0.114	7"	2 1/2"	M-33	1000cc (650cc)	29.5Kg
			60Hz	480	0.124	0.120	0.114	7"	2"	M-33		
SD-150s	3/4"	200W	50Hz	600	0.156	0.150	0.145	7"	3"	M-33	1000cc (650cc)	30Kg
			60Hz	600	0.156	0.150	0.145	7"	2 1/2"	M-33		
SD-200s	3/4"	250W	50Hz	600	0.205	0.200	0.195	7"	3"	M-33	1000cc (650cc)	34Kg
			60Hz	600	0.205	0.200	0.195	7"	2 1/2"	M-33		

Rotary Vane Blower – SD Type

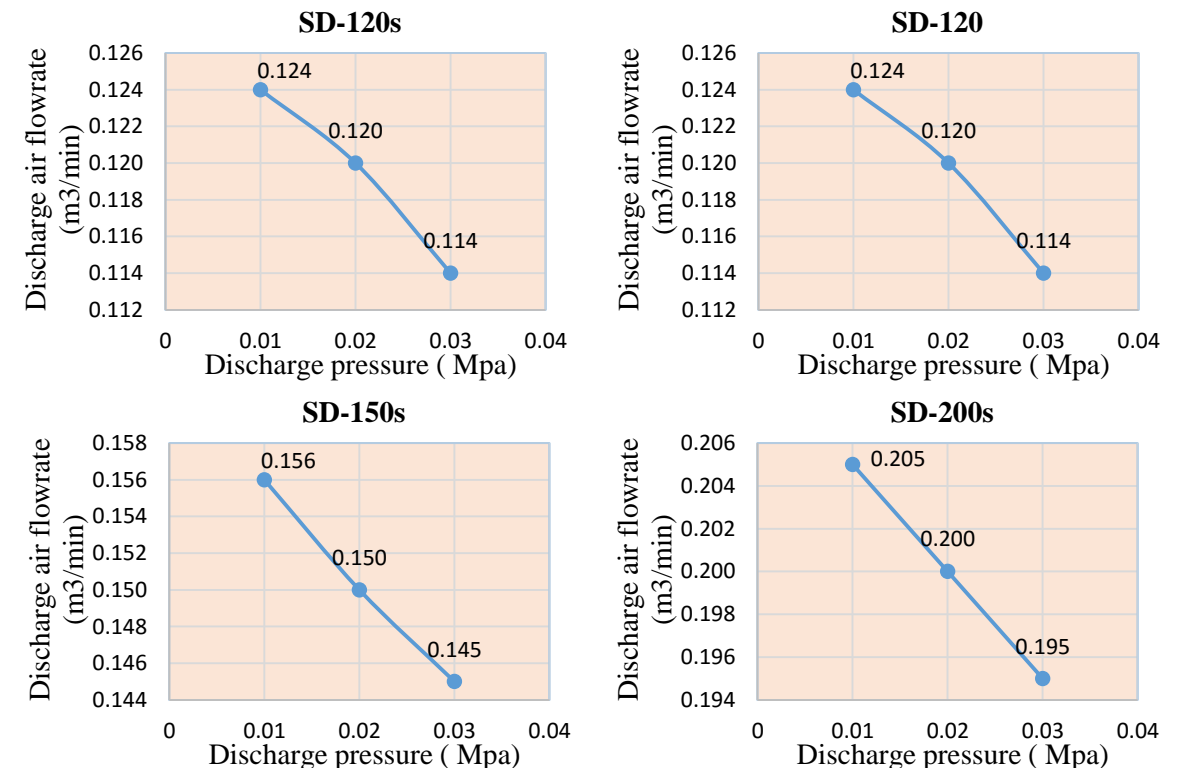
Name of parts and sizes



Unit : mm

Model No.	A	B	C	D	E	F	G	H	I	J	K	M
SD-120s	420	265	313	400	25	275	23	26.5	285	150	169	1/2"
SD-120	480	265	338	440	25	275	23	30.5	303	220	173.5	3/4"
SD-150s	480	265	338	440	25	275	23	30.5	303	220	173.5	3/4"
SD-200s	500	310	360	450	25	320	23	30.5	305.5	225	173.5	3/4"

Performance curves



Rotary Vane Blower – FD Type



FD-250s
FD-300

No. 1 Japanese rotary vane blower
Four million units shipment

- Adapt a new chamber that is tougher for continuous running.
- More applications become available.
- FD Type was developed based on SD type's structure, and have a greater chamber to meet various applications as middle size blower.
- Available not only for aeration for on-site wastewater treatment but also for spray device of a combustion unit..

Feature

- Unique oiling system that hardly run out lubricating oil in one or two years continuous operation
- Equipped with a check valve to prevent a trouble caused by back water from a tank
- Built-in Safety-relief valve sounds an alarm to prevent motor burnout, when the motor is overloaded by clogging of pipes or diffuser tube.
- Has an auto-stop function (manual reset) to prevent motor burnout
- Has great durability. Air pressure and flow rate will not change in a long time operation.
- Motor and blower can be separated. Therefore it is flexible for modification to meet the requirements

Application

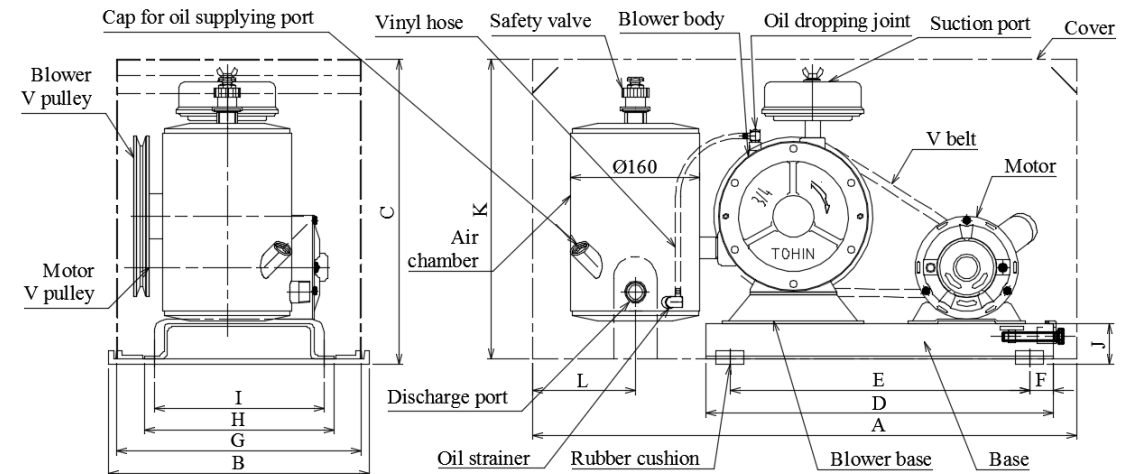
- Aeration for on-site wastewater treatment
- Spraying for fuel oil and kerosene oil burners
- Aeration for fish farm
- Agitation in plating tanks or water tanks
- Air curtain

Specification

Model No.	Dia. of Discharge	Output of motor	Frequency	Blower RPM	Air flowrate (m ³ /min)			V pulley		V Belt	Quantity of oil (effective quantity)	Appox. Weight
					0.01Mpa	0.02Mpa	0.03Mpa	Blower	Motor			
FD-250s	3/4"	300W	50Hz	540	0.265	0.250	0.237	8"	3"	A-35	1200cc (900cc)	47Kg
	(20A)		60Hz	540	0.265	0.250	0.37	8"	2 1/2"	A-35		
FD-300s	3/4"	300W	50Hz	450	0.310	0.300	0.292	8"	2 1/2"	A-35	1200cc (900cc)	53Kg
	(20A)		60Hz	450	0.310	0.300	0.292	8"	2"	A-35		
FD-300	3/4"	400W	50Hz	450	0.310	0.300	0.292	8"	2 1/2"	A-35	1200cc (900cc)	53Kg
	(20A)		60Hz	450	0.310	0.300	0.292	8"	2"	A-35		

Rotary Vane Blower – FD Type

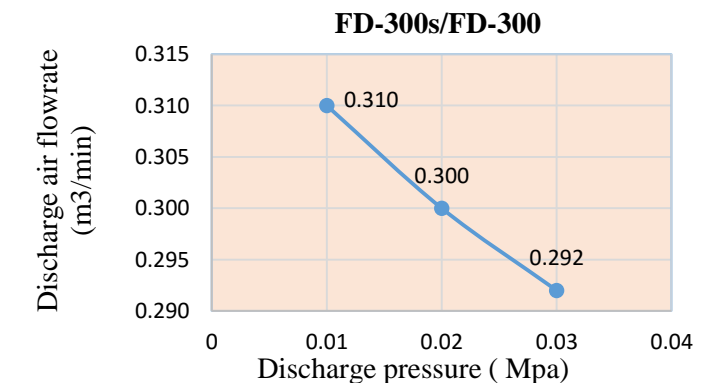
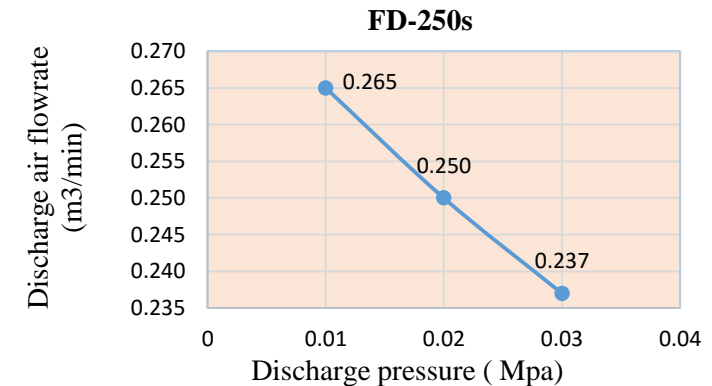
Name of parts and sizes



Unit : mm

Model No.	A	B	C	D	E	F	G	H	I	J	K	L	M
FD-250s	690	330	387	440	380	30	310	240	215	52	377	130	92
FD-300s	690	330	387	440	380	30	310	240	215	52	377	130	92
FD-300	690	330	387	440	380	30	310	240	215	52	377	130	92

Performance curves



Rotary Vane Blower – HC Type



HC-40s

HC-251s/HC-30s/HC-301s
HC-301H/HC-40s/HC-401s
HC-50s/HC-501s/HC-60s
HC-80s/HC-100s



HC-80s

No. 1 Japanese rotary vane blower
Four million units shipment

- Achieved high efficiency of air flow with low motor capacity. 11 models are available in the HC-s Type.
“want more air without changing size or motor power of the product”, to meet that voice, we developed this energy-saving product.
- HC-s series are the best for aeration of on-site wastewater treatment and spray device of a combustion unit.

Feature

- Comparing operation sound of roots blowers, generally smaller HC-s models do not need a machine room. Larger HC-s models do not need sound insulation on a machine room because of quiet operation
- Unique oiling system that features less consumption and no clogging or leakage
- Achieved low price and low installation cost, furthermore, the energy-saving design can also save running cost.
- Has great durability. Air pressure and flow rate will not change in a long time operation.
- Motor and blower can be separated. Therefore it is flexible for modification to meet the requirements.
- Easy maintenance

Application

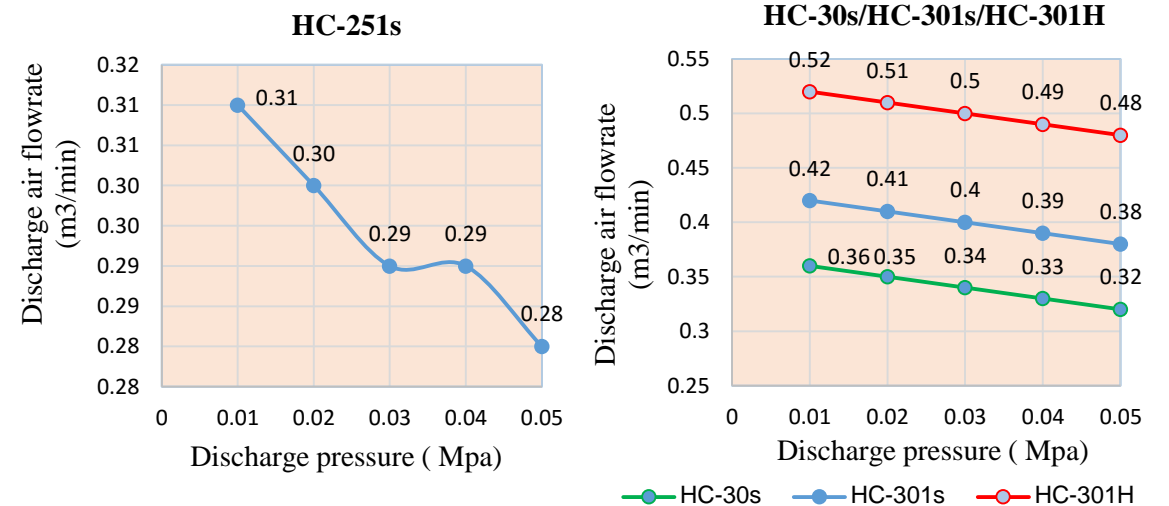
- Aeration for on-site wastewater treatment
- Spraying for fuel oil and kerosene oil burners
- Aeration for fish farm
- Agitation in plating tanks or water tanks
- Air curtain

Rotary Vane Blower – HC Type

Specification

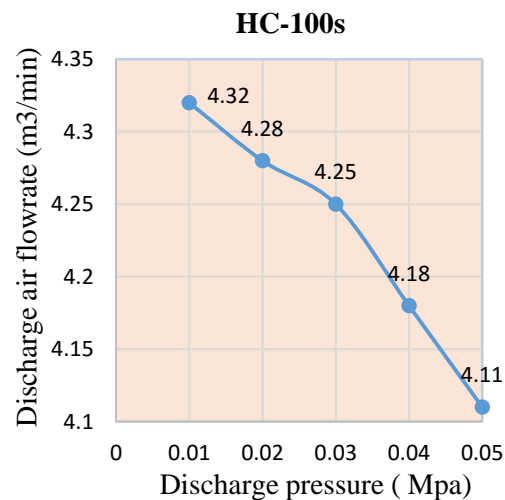
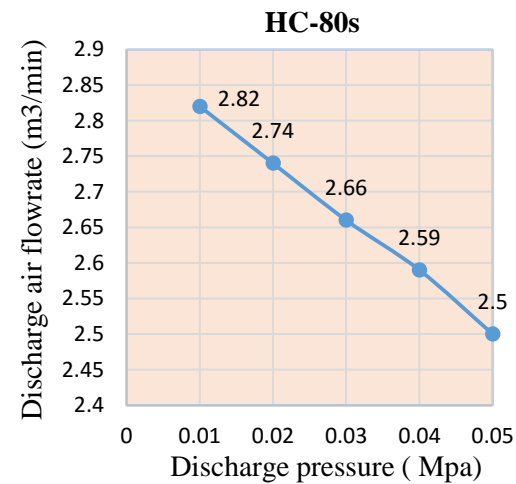
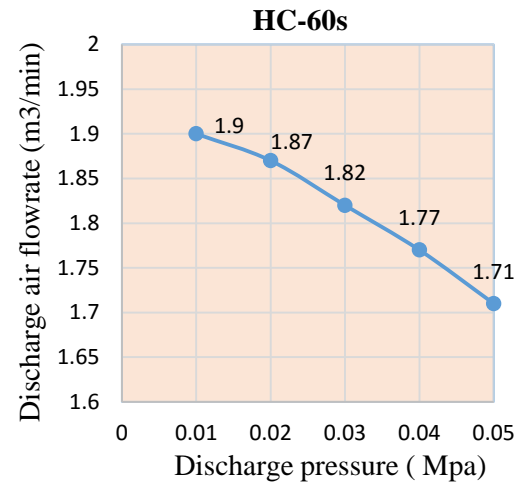
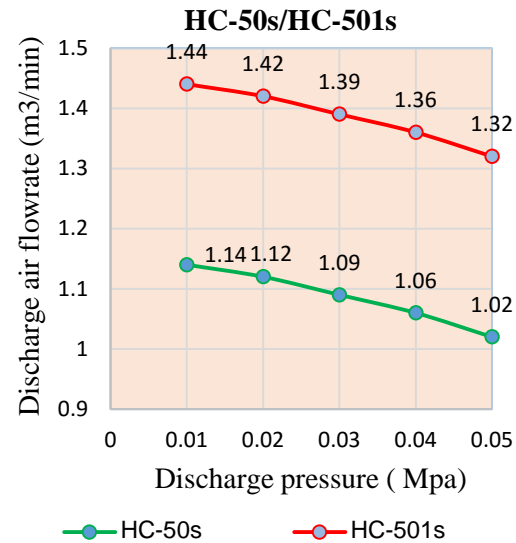
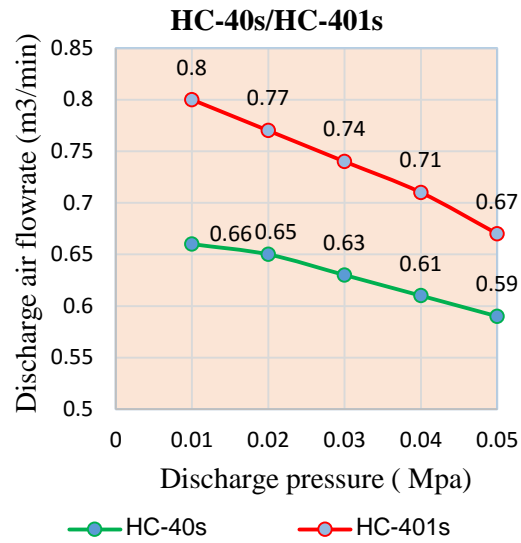
Model No.	Dia. of Discharge	Output of motor (Kw)	Frequency (Hz)	Blower RPM	Air flowrate (m ³ /min)					V pulley		V Belt	Quantity of oil (effective quantity) (L)	Approx. Weight (Kg)
					0.01 MPa	0.02 MPa	0.03 MPa	0.04 MPa	0.05 MPa	Blower	Motor			
HC-251s	3/4"	0.4	50	450	0.31	0.3	0.29	0.29	0.28	8"A1	2 1/2"A1	A-40	1.5 (1.1)	44
	(20A)		60	450	0.31	0.3	0.29	0.29	0.28	8"A1	2"A1	A-40		
HC-30s	1"	0.4	50	460	0.36	0.35	0.34	0.33	0.32	10"A1	3 1/4"A1	A-44	1.5 (1.1)	50
	(25A)		60	460	0.36	0.35	0.34	0.33	0.32	10"A1	2 3/4"A1	A-44		
HC-301s	1"	0.75	50	520	0.42	0.41	0.4	0.39	0.38	10"A1	3 1/2"A1	A-45	1.5 (1.1)	50
	(25A)		60	520	0.42	0.41	0.4	0.39	0.38	10"A1	3"A1	A-44		
HC-301H	1"	0.75	50	650	0.52	0.51	0.5	0.49	0.48	8"A1	呼び 85A1	SA-41	1.5 (1.1)	50
	(25A)		60	650	0.52	0.51	0.5	0.49	0.48	8"A1	3"A1	SA-41		
HC-40s	1 1/4"	0.75	50	500	0.66	0.65	0.63	0.61	0.59	12"A2	4"A2	A-52	2.5 (1.7)	80
	(32A)		60	500	0.66	0.65	0.63	0.61	0.59	12"A2	3 1/2"A2	A-52		
HC-401s	1 1/4"	1.5	50	580	0.8	0.77	0.74	0.71	0.67	12"A2	4 1/2"A2	A-52	2.5 (1.7)	85
	(32A)		60	580	0.8	0.77	0.74	0.71	0.67	12"A2	4"A2	A-52		
HC-50s	1 1/2"	1.5	50	430	1.14	1.12	1.09	1.06	1.02	14"A2	4"A2	A-64	3.5 (2.7)	120
	(40A)		60	430	1.14	1.12	1.09	1.06	1.02	14"A2	3 1/2"A2	A-64		
HC-501s	1 1/2"	2.2	50	500	1.44	1.42	1.39	1.36	1.32	14"A2	4 1/2"A2	A-64	3.5 (2.3)	125
	(40A)		60	500	1.44	1.42	1.39	1.36	1.32	14"A2	4"A2	A-64		
HC-60s	2"	2.2	50	450	1.9	1.87	1.82	1.77	1.71	16"B2	5"B2	B-74	5.5 (3.8)	190
	(50A)		60	450	1.9	1.87	1.82	1.77	1.71	16"B2	4"B2	B-72		
HC-80s	2 1/2"	3.7	50	390	2.82	2.74	2.66	2.59	2.5	18"B2	5"B2	B-84	8 (6)	250
	(65A)		60	390	2.82	2.74	2.66	2.59	2.5	18"B2	4"B2	B-84		
HC-100s	3"	5.5	50	390	4.32	4.28	4.25	4.18	4.11	20"B3	5 1/2"B3	B-93	20 (16)	375
	(80A)		60	390	4.32	4.28	4.25	4.18	4.11	20"B3	4 1/2"B3	B-93		

Performance curves



Rotary Vane Blower – HC Type

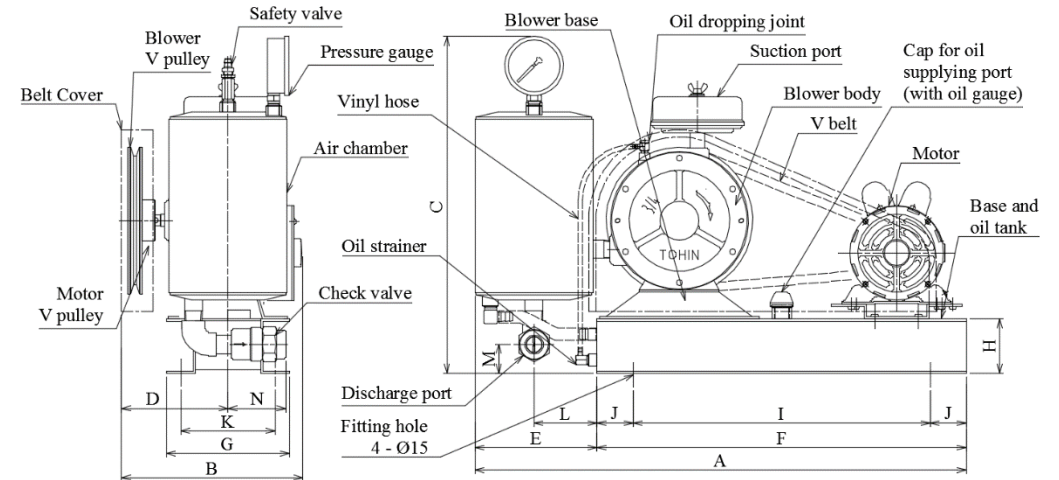
Performance curves



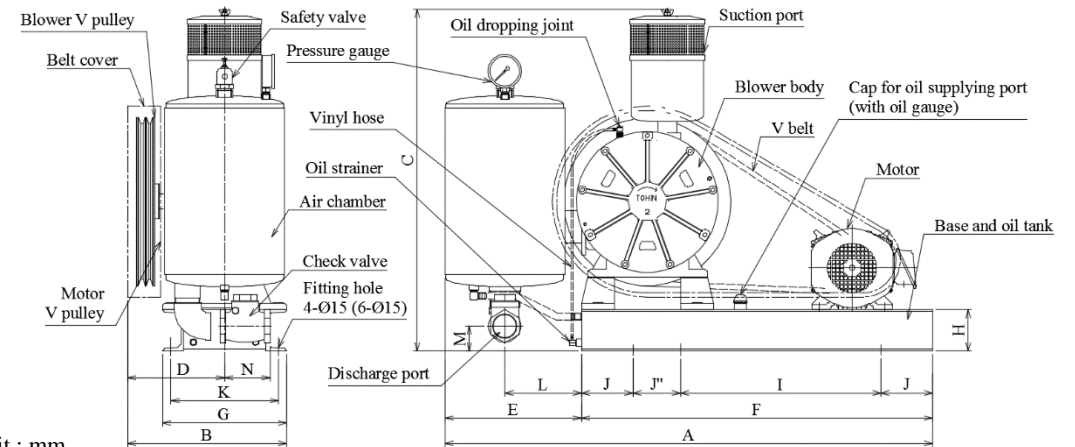
Rotary Vane Blower – HC Type

Name of parts and sizes

HC-251s ~ HC-501s



HC-60s ~ HC-100s



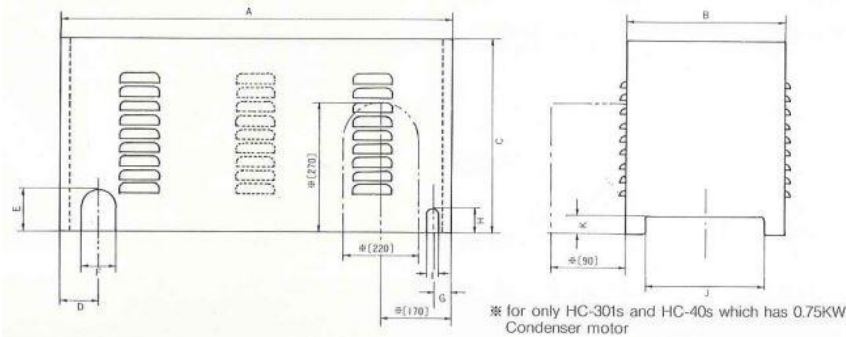
Unit : mm

Model No.	A	B	C	D	E	F	G	H	I	J	J'	K	L	M	N	P
HC-251s	679	255	455	149	169	510	170	75	410	50	-	130	87	40	80	¾"
HC-30s	686	273	527	160	176	510	170	75	410	50	-	130	87	55	90	1"
HC-301s	686	300	527	160	176	510	170	75	410	50	-	130	87	55	90	1"
HC-301H	686	300	527	160	176	510	170	75	410	50	-	130	87	55	90	1"
HC-40s	779	296	445	184	179	600	230	75	400	100	-	190	88	40	125	1¼"
HC-401s	779	296	445	184	179	600	230	75	400	100	-	190	88	40	125	1¼"
HC-50s	1018	350	600	213	218	800	265	75	600	100	-	225	106	60	117	1½"
HC-501s	1049	373	600	213	249	800	265	75	600	100	-	225	123	60	117	1½"
HC-60s	1180	385	825	233	330	850	300	100	485	125	115	260	185	60	110	2"
HC-80s	1325	440	878	260	325	1000	350	100	580	150	120	310	180	65	166	2½"
HC-100s	1500	550	987	315	400	1100	470	150	660	150	140	410	223	70	163	3"

* Please refer to the outline drawing or structure diagram for more information.

Rotary Vane Blower – HC Type

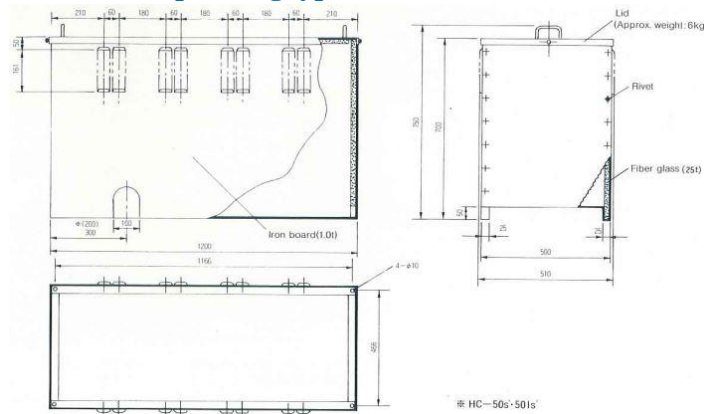
Size of HC-251s ~ HC-501s Full cover



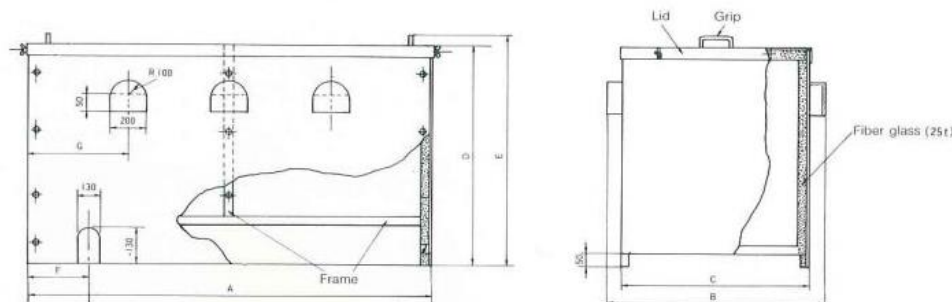
Model No.	A	B	C	D	E	F	G	H	I	J	K
HC-251s,301s	780	325	540	115	90	65	45	90	20	230	45
HC-40s,401s	920	350	575	160	90	65	40	90	20	240	50
HC-50s,501s	1130	385	615	172.5	130	65	40	90	20	215	50

Extra – fine Full cover

HC-251s ~ HC-501s (Soundproofing type)



HC-60s ~ HC-100s (Soundproofing type)



Model No.	A	B	C	D	E	F	G	Vent	Approx.weight Lid	Approx.whole weight
HC-60s	1350	650	550	900	(935)	240	230	4 Places	11Kg	68Kg
HC-80s	1500	760	660	1000	(1035)	240	270	4 Places	14Kg	84Kg
HC-100s	1800	850	750	1150	(1185)	315	300	6 Places	19Kg	115Kg

**Keep improving – our forever seeking
Satisfy customers – our invariable promise**

TOHIN

TOHIN VIETNAM INDUSTRY

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