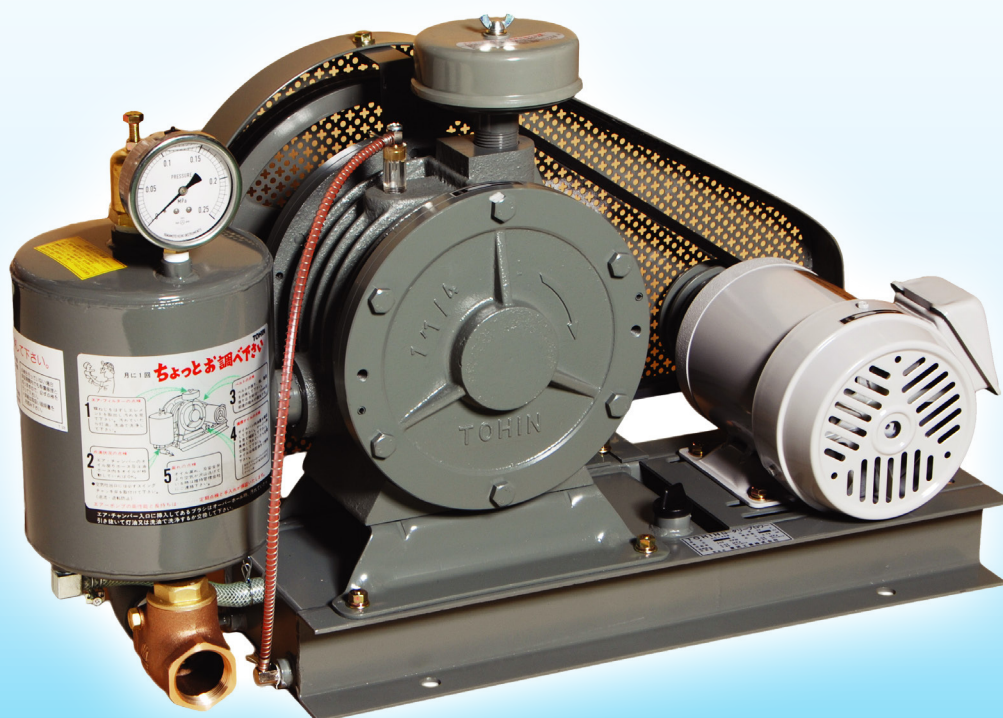




ROTARY VANE BLOWER

HC Series • FD Series • SD Series



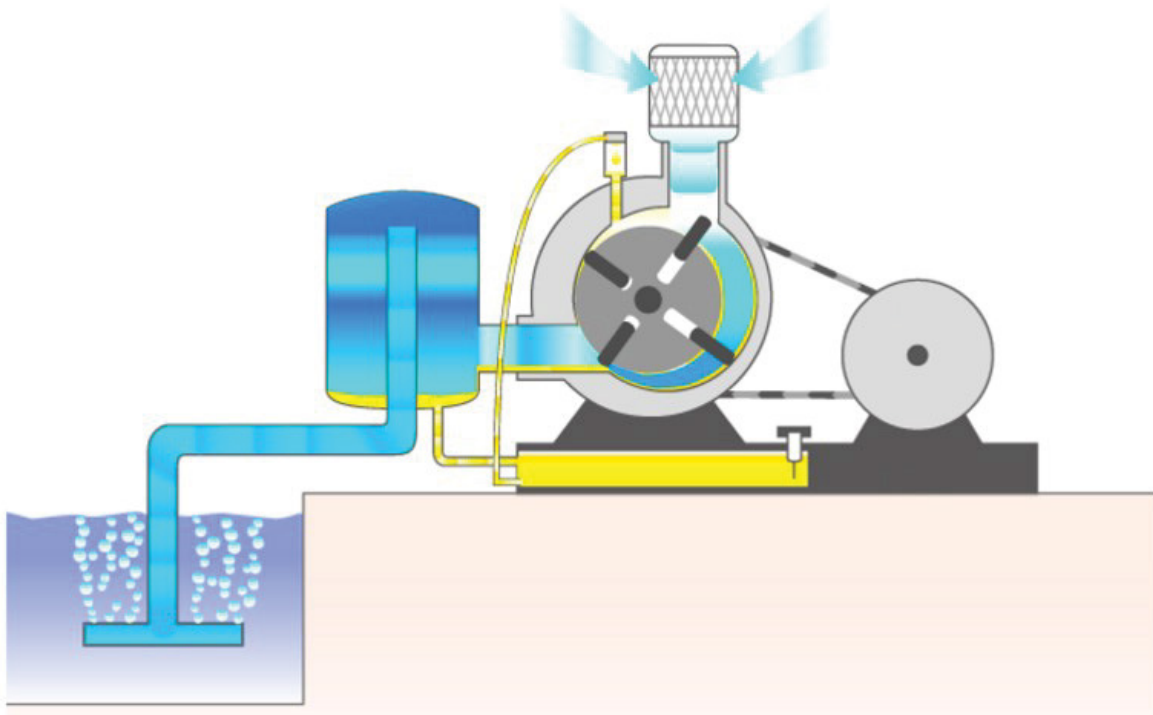
TOHIN VIETNAM INDUSTRY

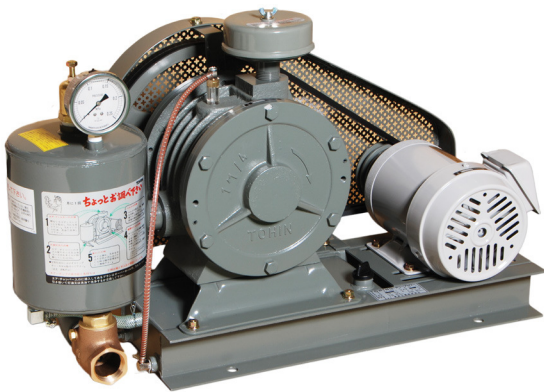
TOHIN ROTARY VANE BLOWER

- ☞ 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.





HC-40s



HC-80s

No. 1 Japanese rotary vane blower Four million units shipment

- ⌚ Achieved high efficiency of air flow with low motor capacity. 14 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

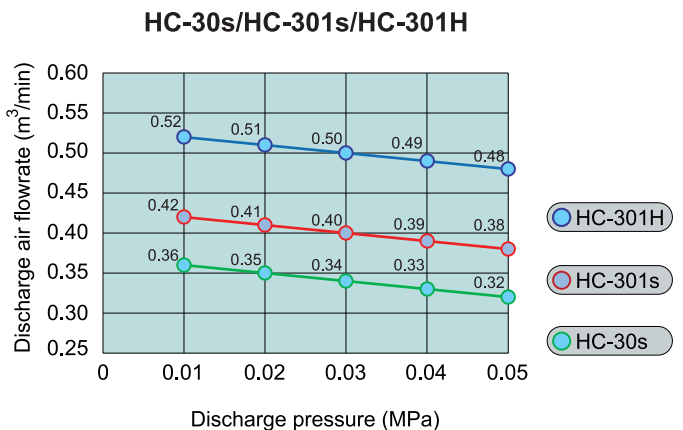
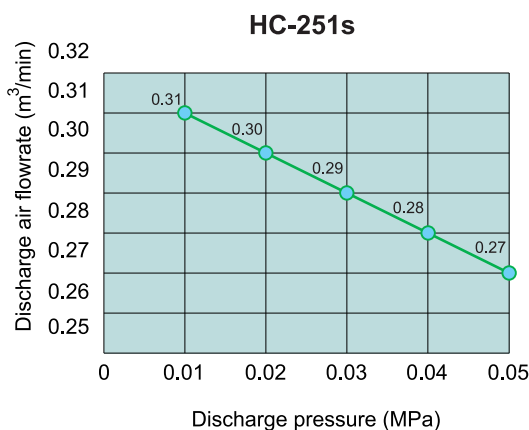


Rotary Vane Blower - HC Type

Specifications

| 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) | Approx. Weight (Kg) | |
|-----------|-------------------|----------------------|----------------|------------|------------------------------------|------|------|------|------|----------|-------|--------|--------------------------------------|---------------------|-------|
| | | | | | 0.01 | 0.02 | 0.03 | 0.04 | 0.05 | Blower | Motor | | | net | gross |
| | | | | | MPa | MPa | MPa | MPa | MPa | | | | | | |
| HC-251s | ¾" | 0.4 | 50 | 450 | 0.31 | 0.30 | 0.29 | 0.28 | 0.27 | 8"A1 | 2½"A1 | A-40 | 1.5 (1.1) | 44 | 51 |
| | (20A) | | 60 | 450 | 0.31 | 0.30 | 0.29 | 0.28 | 0.27 | 8"A1 | 2"A1 | | | | |
| HC-30s | 1" | 0.4 | 50 | 460 | 0.36 | 0.35 | 0.34 | 0.33 | 0.32 | 10"A1 | 3¼"A1 | A-44 | 1.5 (1.1) | 50 | 57 |
| | (25A) | | 60 | 460 | 0.36 | 0.35 | 0.34 | 0.33 | 0.32 | 10"A1 | 2¾"A1 | | | | |
| HC-301s | 1" | 0.75 | 50 | 520 | 0.42 | 0.41 | 0.40 | 0.39 | 0.38 | 10"A1 | 3½"A1 | A-45 | 1.5 (1.1) | 50 | 57 |
| | (25A) | | 60 | 520 | 0.42 | 0.41 | 0.40 | 0.39 | 0.38 | 10"A1 | 3"A1 | | | | |
| HC-301H | 1" | 0.75 | 50 | 650 | 0.52 | 0.51 | 0.50 | 0.49 | 0.48 | 8"A1 | 85A1 | A-45 | 1.5 (1.1) | 50 | 57 |
| | (25A) | | 60 | 650 | 0.52 | 0.51 | 0.50 | 0.49 | 0.48 | 8"A1 | 3"A1 | | | | |
| HC-40s | 1¼" | 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 | 88 |
| | (32A) | | 60 | 500 | 0.66 | 0.65 | 0.63 | 0.61 | 0.59 | 12"A2 | 3½"A2 | | | | |
| HC-401s | 1¼" | 1.5 | 50 | 580 | 0.80 | 0.77 | 0.74 | 0.71 | 0.67 | 12"A2 | 4½"A2 | A-52 | 2.5 (1.7) | 85 | 93 |
| | (32A) | | 60 | 580 | 0.80 | 0.77 | 0.74 | 0.71 | 0.67 | 12"A2 | 4"A2 | | | | |
| HC-50s | 1½" | 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 | 130 |
| | (40A) | | 60 | 430 | 1.14 | 1.12 | 1.09 | 1.06 | 1.02 | 14"A2 | 3½"A2 | | | | |
| HC-501s | 1½" | 2.2 | 50 | 500 | 1.44 | 1.42 | 1.39 | 1.36 | 1.32 | 14"A2 | 4½"A2 | A-64 | 3.5 (2.3) | 125 | 135 |
| | (40A) | | 60 | 500 | 1.44 | 1.42 | 1.39 | 1.36 | 1.32 | 14"A2 | 4"A2 | | | | |
| HC-60s | 2" | 2.2 | 50 | 450 | 1.90 | 1.87 | 1.82 | 1.77 | 1.71 | 16"B2 | 5"B2 | B-74 | 5.5 (3.8) | 190 | 223 |
| | (50A) | | 60 | 450 | 1.90 | 1.87 | 1.82 | 1.77 | 1.71 | 16"B2 | 4" B2 | | | | |
| HC-601s | 2" | 4 | 50 | 540 | 2.41 | 2.34 | 2.29 | 2.24 | 2.18 | 16"B2 | 6"B2 | B-74 | 5.5 (3.8) | 200 | 233 |
| | (50A) | | 60 | 540 | 2.41 | 2.34 | 2.29 | 2.24 | 2.18 | 16"B2 | 5"B2 | | | | |
| HC-80s | 2½" | 4 | 50 | 430 | 2.82 | 2.74 | 2.66 | 2.59 | 2.5 | 18"B2 | 5"B2 | B-84 | 8 (6) | 250 | 268 |
| | (65A) | | 60 | 430 | 2.82 | 2.74 | 2.66 | 2.59 | 2.5 | 18"B2 | 4"B2 | | | | |
| HC-801s | 2½" | 5.5 | 50 | 500 | 3.53 | 3.45 | 3.38 | 3.33 | 3.25 | 18"B2 | 6"B2 | B-84 | 8 (6) | 275 | 293 |
| | (65A) | | 60 | 500 | 3.53 | 3.45 | 3.38 | 3.33 | 3.25 | 18"B2 | 5"B2 | | | | |
| HC-100s | 3" | 5.5 | 50 | 390 | 4.32 | 4.28 | 4.25 | 4.18 | 4.11 | 20"B3 | 5½"B3 | B-93 | 20 (16) | 375 | 395 |
| | | | 60 | 390 | 4.32 | 4.28 | 4.25 | 4.18 | 4.11 | 20"B3 | 4½"B3 | | | | |
| | (80A) | 7.5 | 50 | 420 | 5.41 | 5.32 | 5.25 | 5.18 | 5.11 | 20"B3 | 6"B3 | B-93 | 20 (16) | 390 | 410 |
| | | | 60 | 420 | 5.41 | 5.32 | 5.25 | 5.18 | 5.11 | 20"B3 | 5"B3 | | | | |

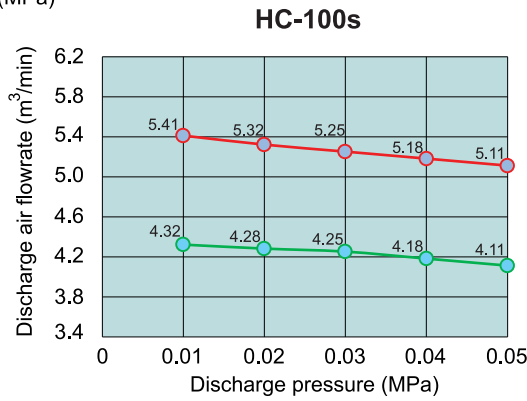
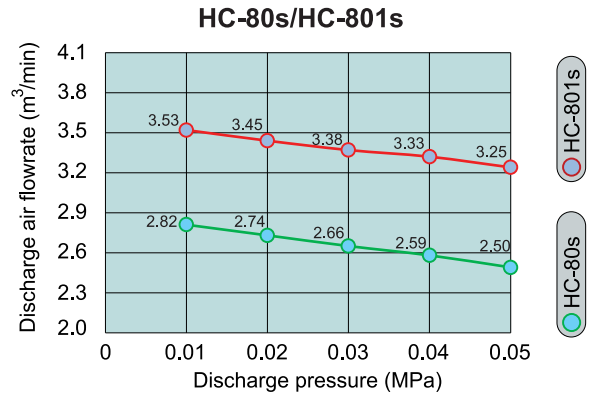
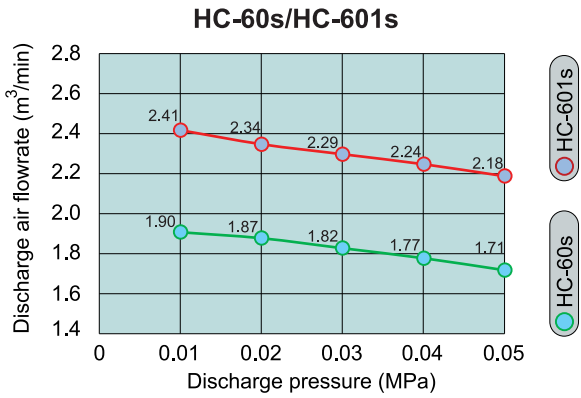
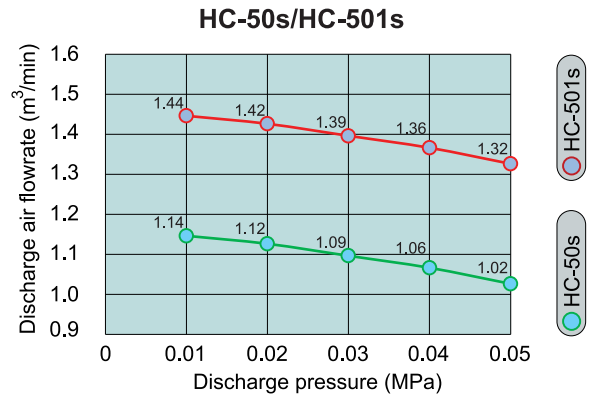
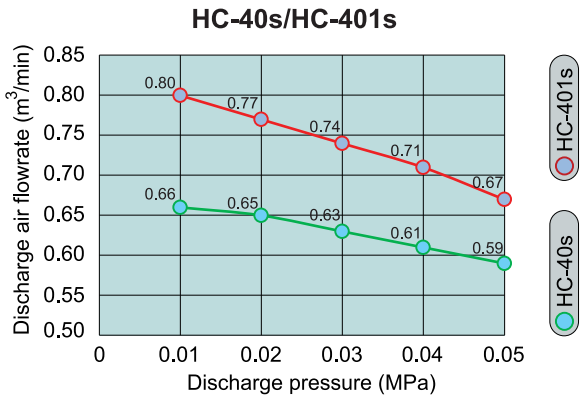
Performance curves



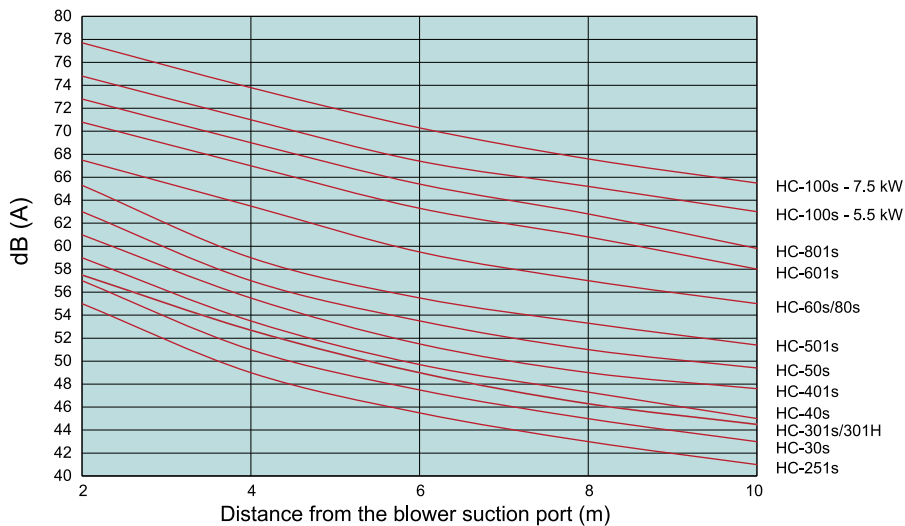
Rotary Vane Blower - HC Type



Performance curves



Noise curves

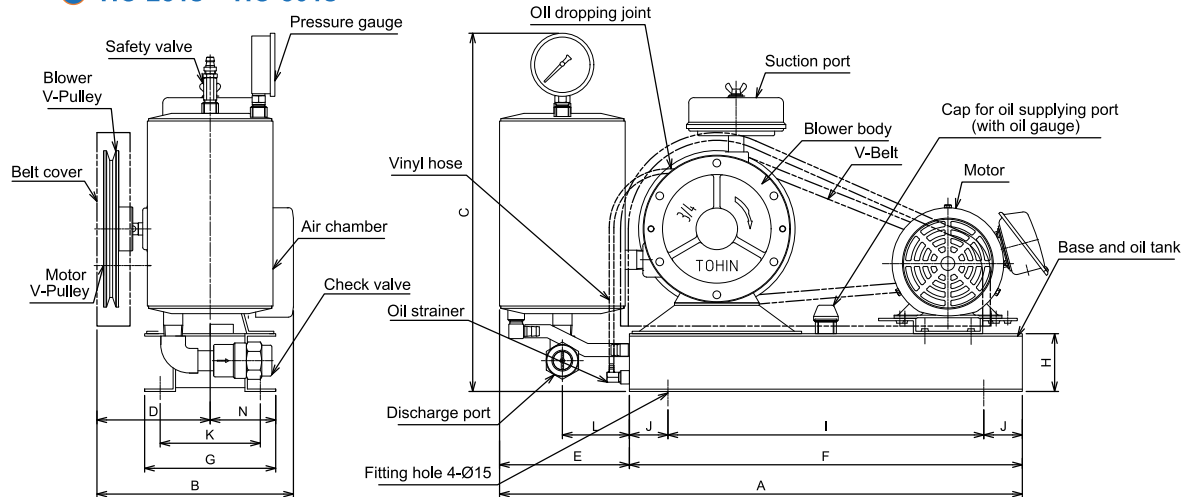




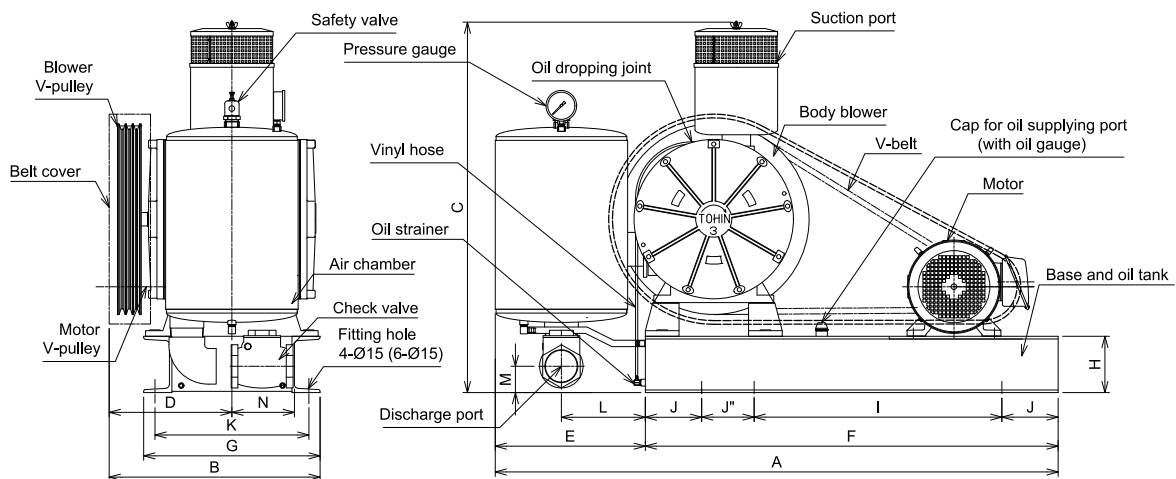
Rotary Vane Blower - HC Type

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-601s | 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-801s | 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" |

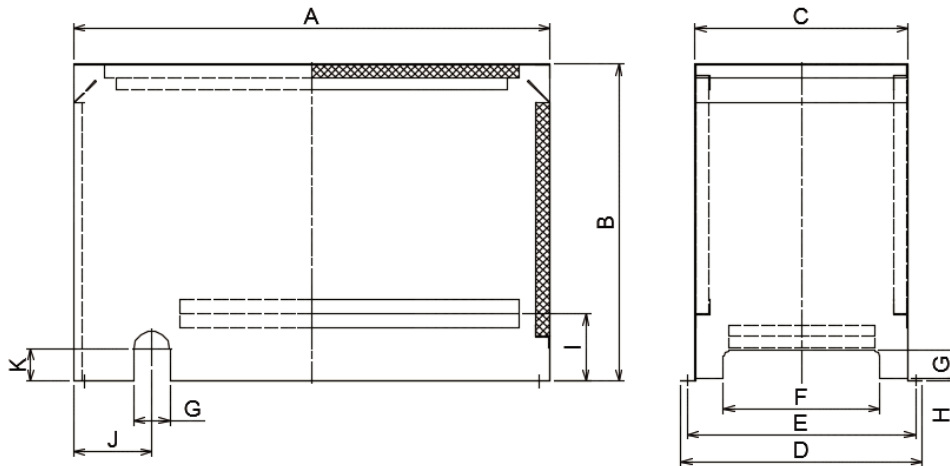
* Please refer to the outline drawing or structure diagram for more information.

Rotary Vane Blower - HC Type



Soundproof cover drawings

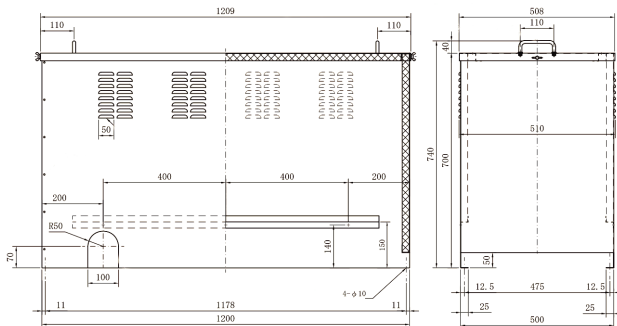
● HC-251s ~ HC-401s



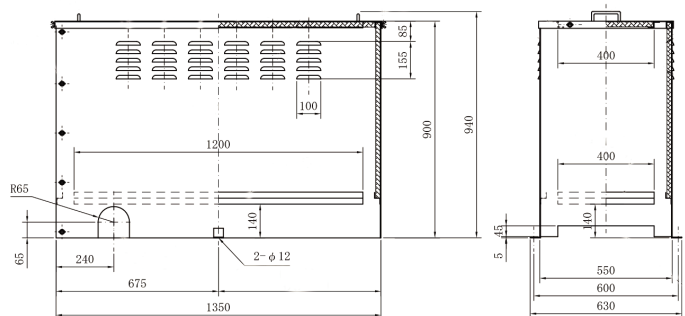
Unit: mm

| Model No. | A | B | C | D | E | F | G | H | I | J | K | G |
|--------------|------|-----|-----|-----|-----|-----|----|---|-----|-----|------|----|
| HC-251s~301H | 850 | 565 | 380 | 430 | 408 | 280 | 50 | 5 | 120 | 140 | 57.5 | 65 |
| HC-40s,401s | 1000 | 575 | 440 | 490 | 468 | 310 | 50 | 5 | 130 | 175 | 57.5 | 65 |

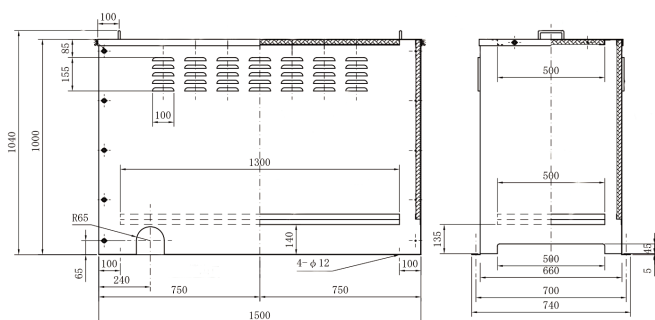
● HC-50s ~ HC-501s



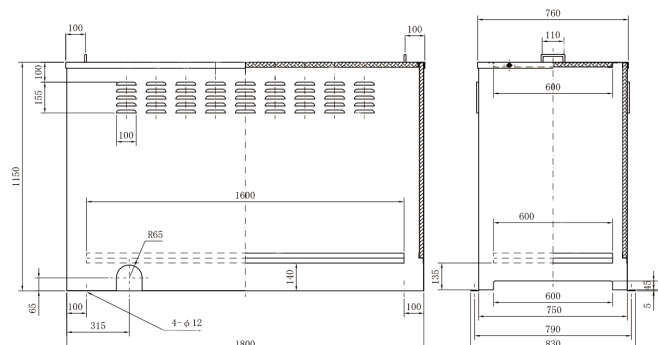
● HC-60s ~ HC-601s



● HC-80s ~ HC-801s



● HC-100s





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

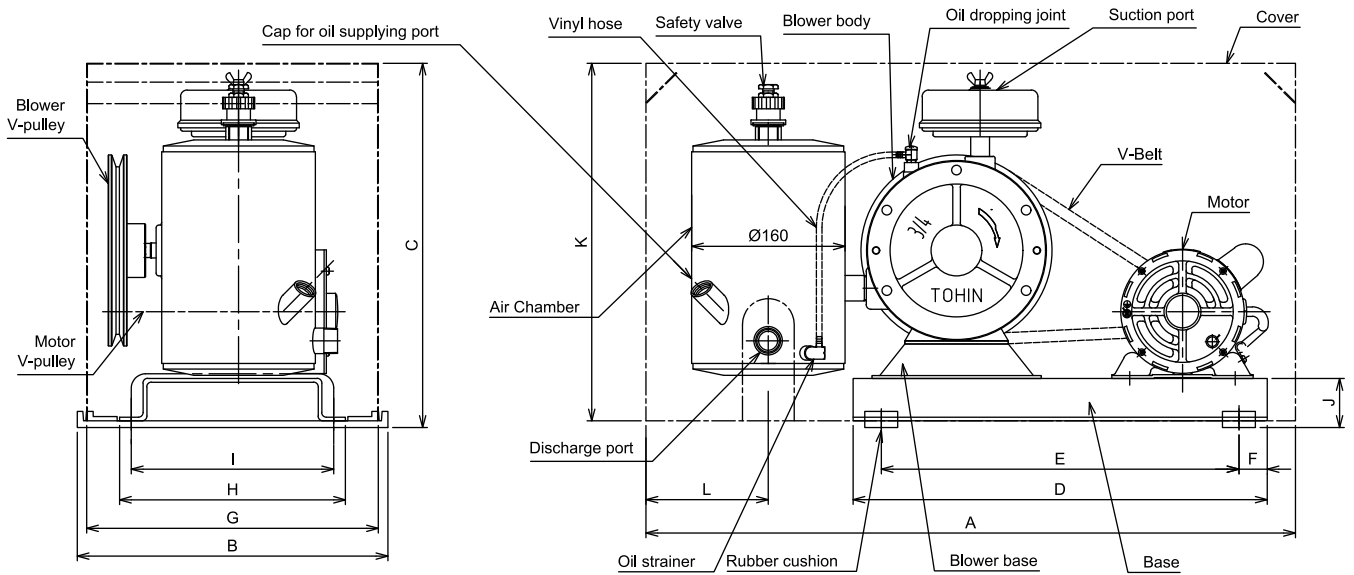
Specifications

| 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" | 400W | 50Hz | 540 | 0.265 | 0.250 | 0.237 | 8" | 3" | A-35 | 1200cc (900cc) | 47Kg |
| | (20A) | | 60Hz | 540 | 0.265 | 0.250 | 0.370 | 8" | 2 1/2" | | | |
| 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" | | | |

Rotary Vane Blower - FD Type



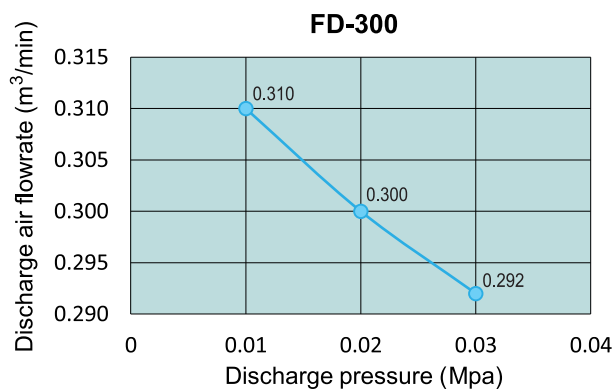
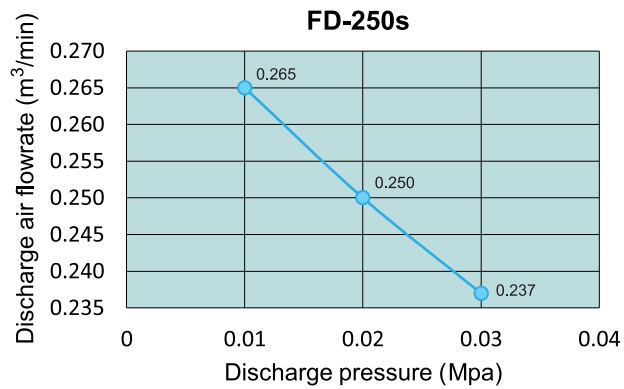
Name of parts and sizes



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-300 | 690 | 330 | 387 | 440 | 380 | 30 | 310 | 240 | 215 | 52 | 377 | 130 | 92 |

Performance curves





Rotary Vane Blower - SD Type



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

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

- ⊗ 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

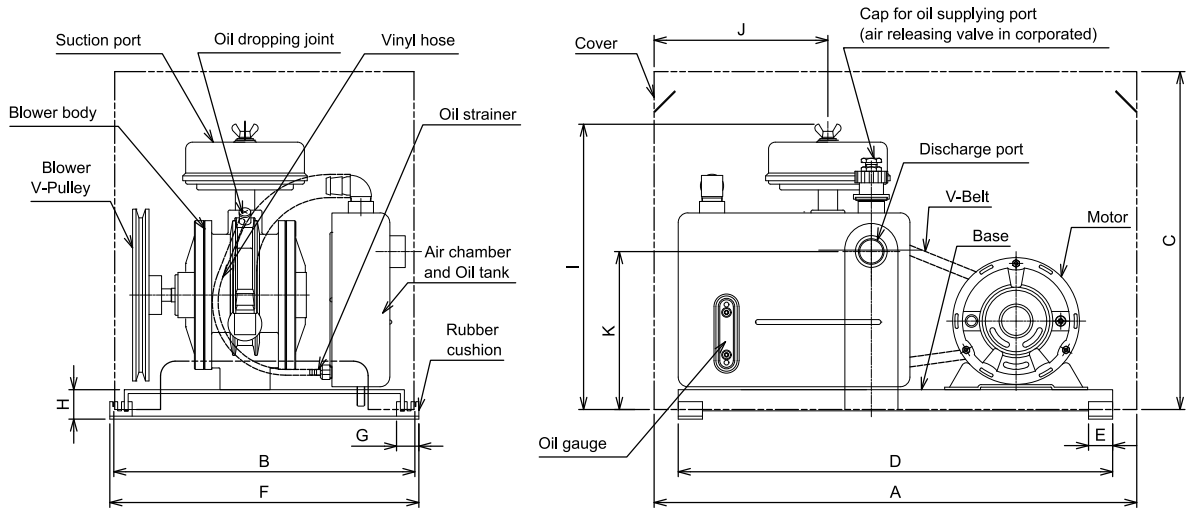
Specifications

| 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) | Approx. Weight |
|-----------|-------------------|-----------------|-----------|------------|------------------------------------|---------|---------|----------|--------|--------|--------------------------------------|----------------|
| | | | | | 0.01Mpa | 0.02Mpa | 0.03Mpa | Blower | Motor | | | |
| SD-120s | 1/2" | 250W | 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" | 250W | 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" | 250W | 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



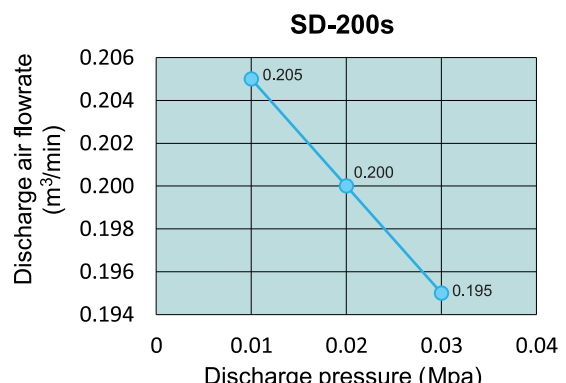
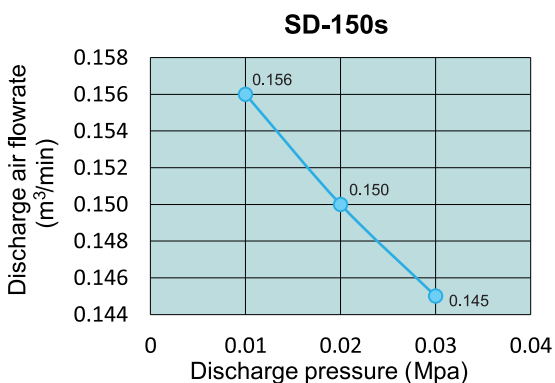
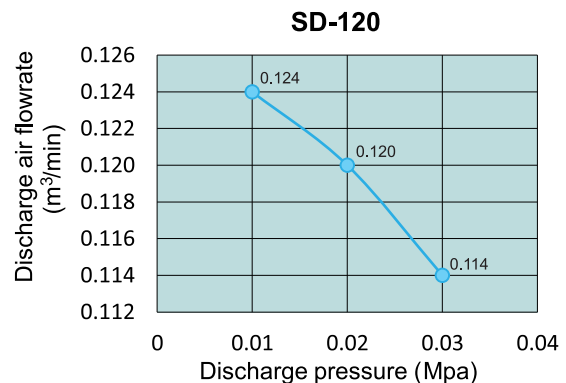
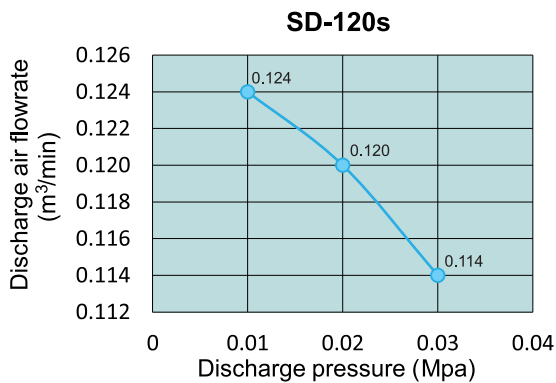
Name of parts and sizes



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





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

TOHIN VIETNAM INDUSTRY

**Address : Lot I-10-3, Sai Gon Hi-Tech Park, D6 Street,
Long Thanh My Ward, District 9, Ho Chi Minh City, Viet Nam**

Phone : (+84) 8 7106 88 66

Email : info@tohin.asia

Website : www.tohin.asia