

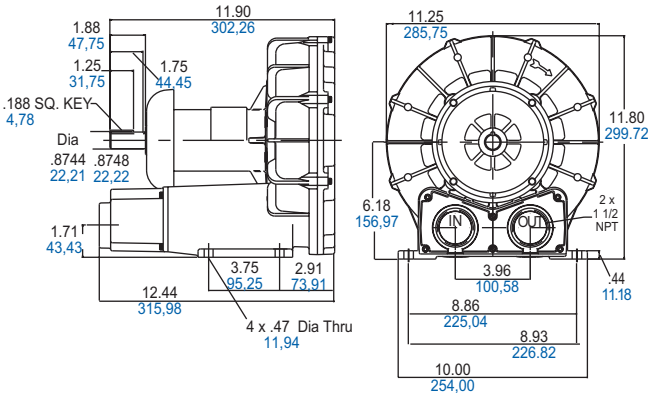
SD SERIES - SEPARATE DRIVE MODELS
MODELS SDR4, SDR5, SDR6, SDR6P

PRESSURE, VACUUM AND AIR FLOW VARIES FOR THESE MODELS, DEPENDING ON THE RPM. REFERENCE THE INDIVIDUAL MODEL'S PERFORMANCE GRIDS FOR SPECIFIC DATA. THE PERFORMANCE CHARTS BELOW REFLECT MAXIMUM DUTY FOR EACH MODEL.

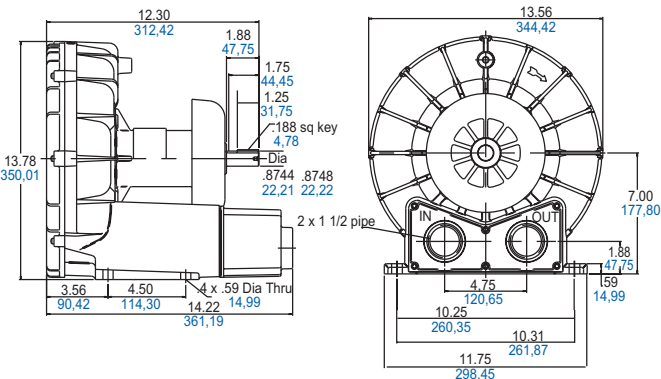
| MODELS | Maximum Pressure ("H ₂ O) | Maximum Vacuum ("H ₂ O) | Maximum Air Flow (CFM) |
|--------|--------------------------------------|------------------------------------|------------------------|
| SDR4 | 110 | 90 | 147 |
| SDR5 | 152 | 120 | 240 |
| SDR6 | 155 | 135 | 300 |
| SDR6P | 150 | 125 | 360 |

Product Dimensions (in. mm)

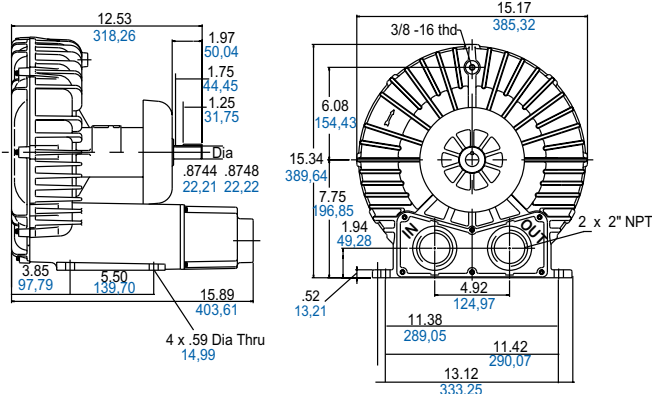
Model SDR4



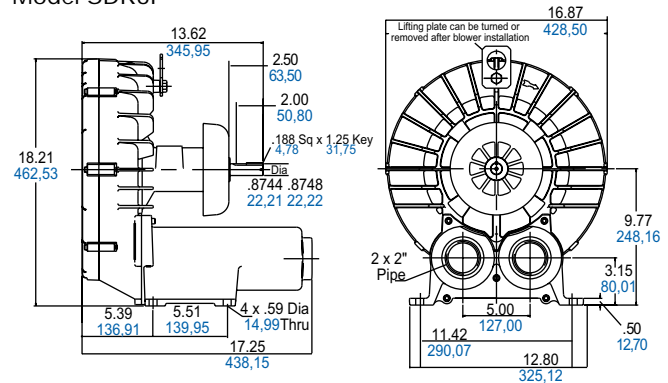
Model SDR5



Model SDR6



Model SDR6P



PRODUCT FEATURES

- Oilless operation
- Rugged construction, low maintenance
- Drive pulley size can be changed to lower the speed and change blower performance
- Aluminum cover, impeller and housing on models SDR4, SDR5, SDR6
- Aluminum impeller, cast iron and housing on model SDR6P

RECOMMENDED ACCESSORIES

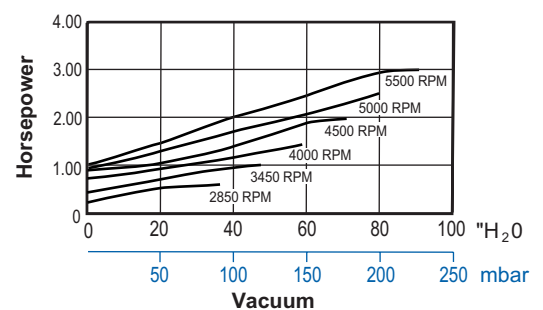
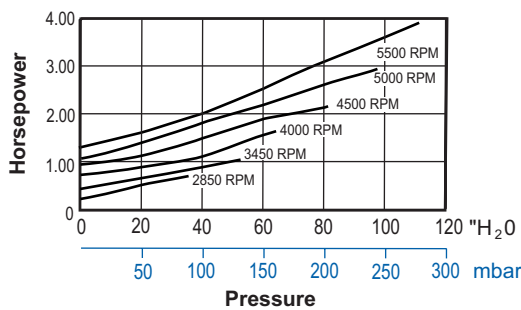
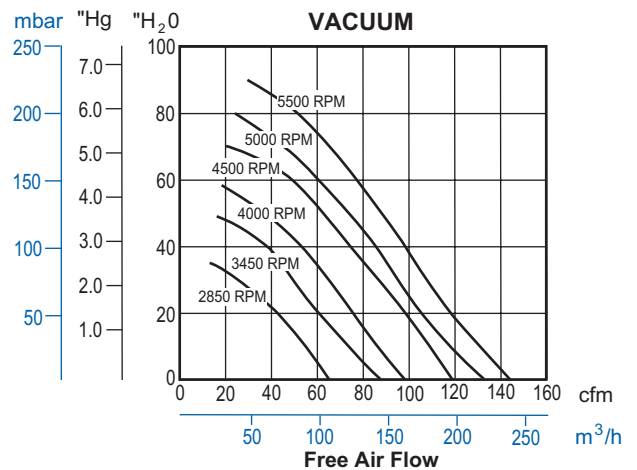
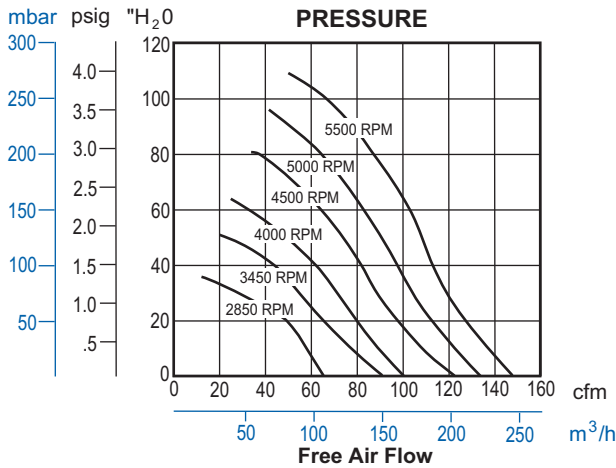
- Pressure gauge AE133
- Inlet filter AJ126D (SDR4)
AJ126F (SDR5 - SDR6)
AJ126G (SDR6P)
- Vacuum gauge AE134
- Vacuum in-line filter AJ151E (SDR4)
AJ151G (SDR5 - SDR6), AJ151H (SDR6P)
- Muffler AJ121D (SDR4, SDR5)
AJ121F (SDR6, SDR6P)
- Relief valve AG258



Product Specifications

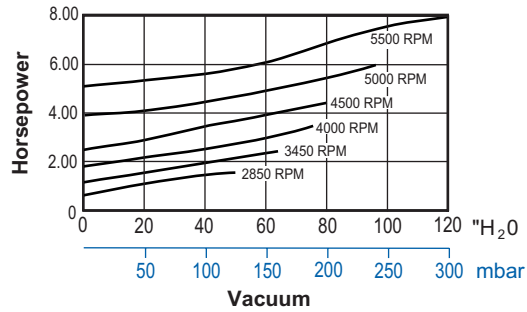
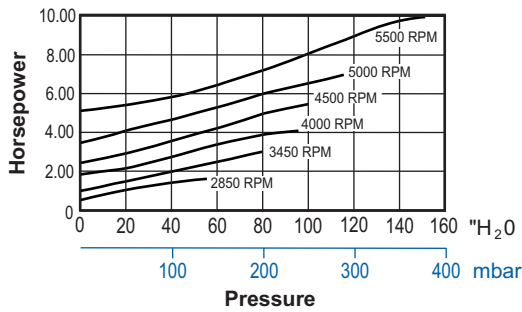
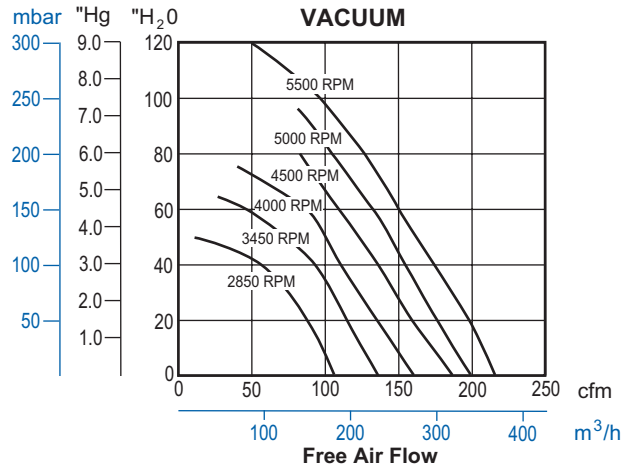
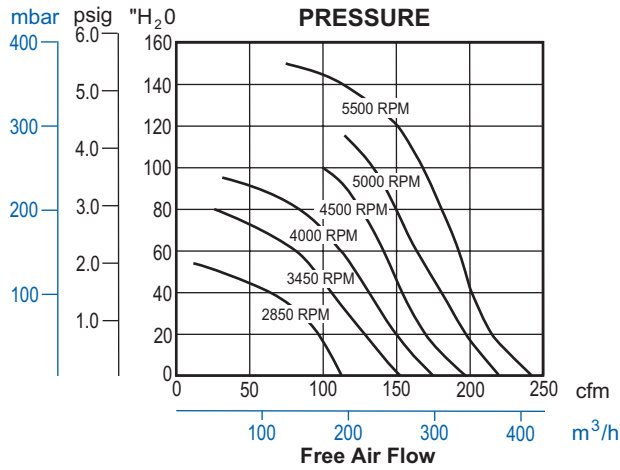
| MODEL NUMBER | SDR4 | SDR5 | SDR6 | SDR6P |
|--|-------|--------|----------|----------|
| Maximum RPM | 5500 | 5500 | 5500 | 4500 |
| HP/kW required at maximum RPM and Vacuum | 3/2,2 | 8/6 | 11.5/8,6 | 10.6/7,9 |
| HP/kW required at maximum RPM and Pressure | 4/3 | 10/7,5 | 15/11,1 | 15/11,1 |
| Net Weight (lbs/kg) | 27/12 | 37/17 | 70/32 | 111/50 |

SDR4

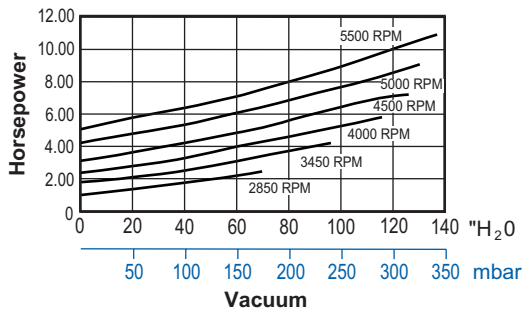
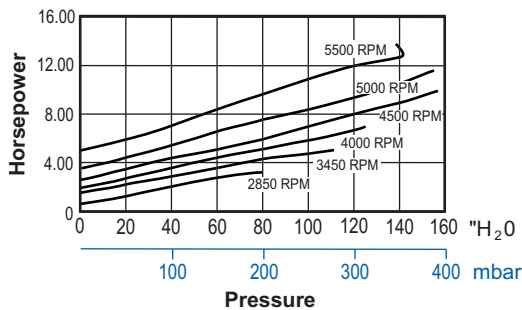
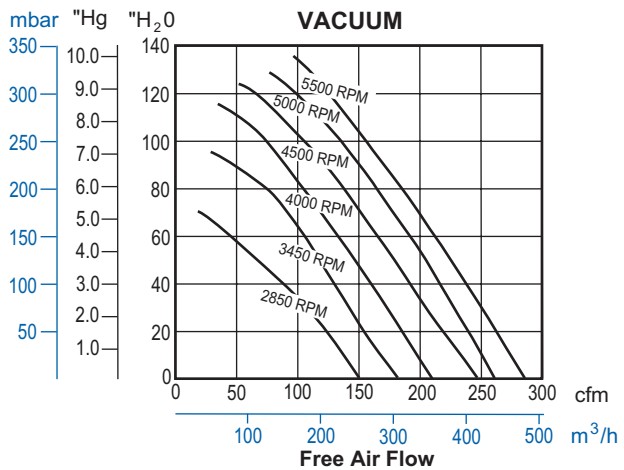
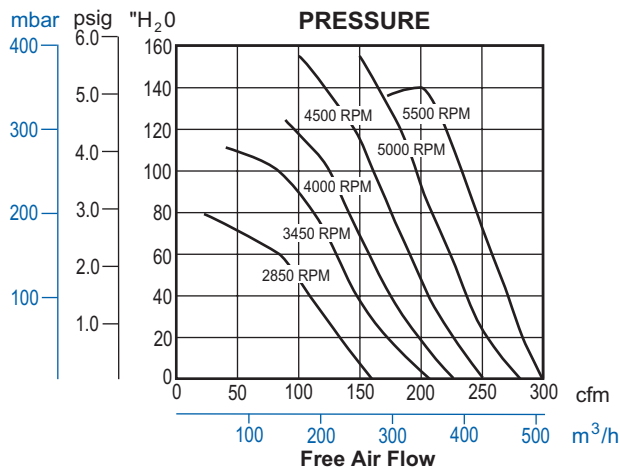




SDR5

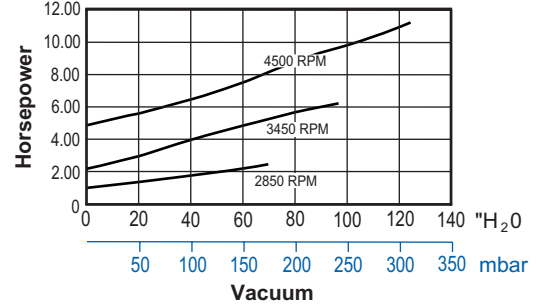
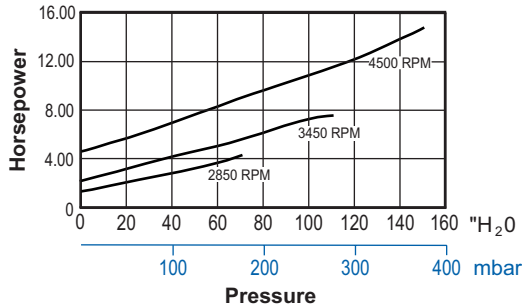
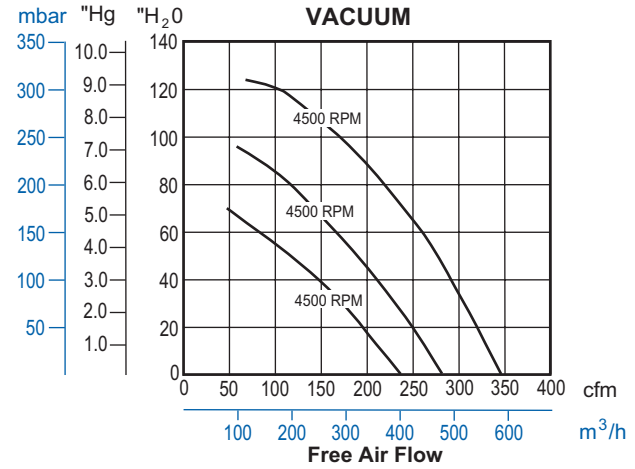
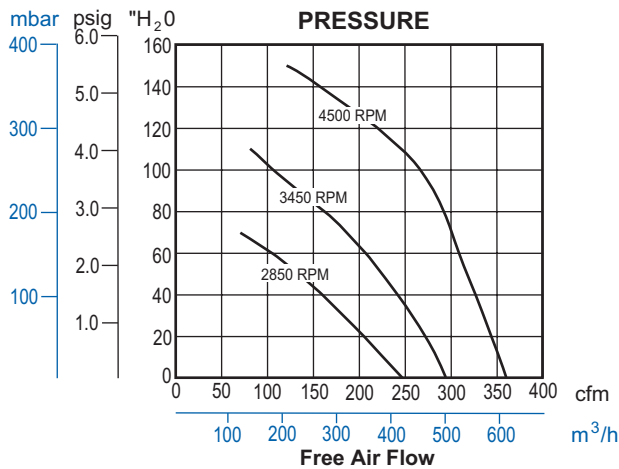


SDR6





SDR6P



Base Mounted Units

SD SERIES - SEPARATE DRIVE MODELS MODELS SDR4-54, SDR5-54, SDR6P-44

These models are equipped with Base, Belt and Belt Guard. Electric Motor is customer supplied. Specifications below will recommend the appropriate horsepower, frame size and voltage of motor.

- SDR4-54 - Use 5 HP, 184T Nema Frame Size, 230/460-60-3 Motor
- SDR5-54 - Use 10 HP, 215T Nema Frame Size, 230/460-60-3 Motor
- SDR6P-44 - Use 15 HP, 254T Nema Frame Size, 230/460-60-3 Motor

PRODUCT FEATURES

- Built-in acoustical muffling
- Belt guard
- Unit mounted on heavy gauge steel base
- Non-slip Gates "Poly Chain GT" belt drive eliminates belt stretch and maintenance.*
- Slower speed assemblies available

* We strongly suggest the use of the Gates Poly Chain Drive. If you intend to design a system with V-belts, consult the operating and maintenance instructions.



- Q. What happens to the noise when I locate two blowers close together?
- A. If the blowers are of the same design they produce sound frequencies that are close together. These may cause a “beating” change in volume of the blower noise. This is because the units are not synchronized. If two small blowers are needed this change in volume can be reduced by moving them further apart. With larger blowers a dual blower with two blowers on one motor will solve this problem.
- Q. What causes the noise relief valves make?
- A. Air rush through the valve.
- Q. How do I control relief valve or bleed off valve noise?
- A. Attach AJ121 series silencer on the port of the relief valve that is open to atmosphere.
- Contact Gast at 616-926-6171 or www.gastmfg.com with any further questions you may have on reducing blower noise in your application.

Noise Reduction and Absorption Coefficients for Common and Specialty Noise Reduction Materials

| | 125Hz | 250Hz | 500Hz | 1000Hz | 2000Hz | 4000Hz | NRC |
|--------------------|-------|-------|-------|--------|--------|--------|------|
| Brick, unglazed | .03 | .03 | .03 | .04 | .05 | .07 | .04 |
| Carpet | | | | | | | |
| 1/4 in pile height | .05 | .10 | .15 | .30 | .50 | .55 | .26 |
| Fabric | | | | | | | |
| Heavy Velour | | | | | | | |
| 18 oz per sq. yd | | | | | | | |
| draped to 1/2 area | .14 | .35 | .55 | .72 | .70 | .65 | .62 |
| Hardwood | | | | | | | |
| Plywood Paneling | | | | | | | |
| 1/4 in thick | | | | | | | |
| wood frame | .58 | .22 | .07 | .04 | .03 | .07 | .09 |
| Tecnifoam* | | | | | | | |
| TFP4 | | | | | | | |
| Pyramid shape | .39 | .60 | 1.21 | 1.14 | 1.16 | 1.13 | 1.05 |
| Tecnifoam* | | | | | | | |
| TFW4000 | | | | | | | |
| Anaechoic | | | | | | | |
| Wedge shape | .64 | 1.10 | 1.34 | 1.23 | 1.24 | 1.21 | 1.25 |

Source: Mechanical Engineering Reference Manual

*TFP4 and TFW4000 are products of Tecnifoam, Inc., 7145 Boone Avenue North, Minneapolis, MN., 55428

Blower Sound Levels of Gast Blowers

Data is highest sound level out of 4 places around the blower at 1 meter.

Data represents average of several units run at nominal voltage.

Lowest to highest maximum dba level throughout performance range is shown.

Readings at other than the maximum around the blower at 1 meter may be from 2 to 10 dba less than data shown.

Readings taken in a laboratory sound room that does not reflect much noise.

Note: For comparison purposes, some blower manufacturers show sound data from 1–1/2 meters instead of from 1 meter; also, some blower manufacturers show an “average” sound level across performance instead of the full range between minimum and maximum sound levels; either of these methods will provide different and usually lower sound levels compared to Gast’s sound level method.

| 60Hz | dBa at Pressure | 50Hz | dBa at Pressure |
|------|-----------------|------|-----------------|
| R1 | 59-67 | R1 | 59-64 |
| R2 | 66 | R2 | 61-63 |
| R3 | 67-70 | R3 | 63-68 |
| R4 | 69-73 | R4 | 64-69 |
| R4P | 69-75 | R4P | 64-71 |
| R5 | 73-77 | R5 | 71-77 |
| R6 | 73-79 | R6 | 70-79 |
| R6P | 82-83 | R6P | 77-80 |
| R6PP | 77-79 | R6PP | 73-76 |
| R6PS | 76-77 | R6PS | 72-75 |
| R7 | 82-84 | R7 | 77-79 |
| R7P | 77-80 | R7P | 74-79 |
| R7S | 75-77 | R7S | 72-76 |
| R9 | 82-85 | R9 | 78-85 |
| R9P | 81-88 | R9P | 79-86 |
| R9S | 79-81 | R9S | 77-81 |
| R4H | 80-82 | R4H | 75-81 |
| R4M | 82-83 | R4M | 78-79 |
| R7H | 83 | R7H | 79-81 |

| 60Hz | dBa at Vacuum | 50Hz | dBa at Vacuum |
|------|---------------|------|---------------|
| R1 | 58-63 | R1 | 54-60 |
| R2 | 67 | R2 | 63-64 |
| R3 | 67-71 | R3 | 64-69 |
| R4 | 70-72 | R4 | 66-70 |
| R4P | 73-74 | R4P | 68-71 |
| R5 | 75-76 | R5 | 71-73 |
| R6 | 78-80 | R6 | 74-77 |
| R6P | 81-85 | R6P | 79-81 |
| R6PP | 81-83 | R6PP | 78-79 |
| R6PS | 79-81 | R6PS | 76-77 |
| R7 | 85-87 | R7 | 79-84 |
| R7P | 84-86 | R7P | 80-83 |
| R7S | 82-83 | R7S | 78-80 |
| R9 | 85-90 | R9 | 83-84 |
| R9P | 88-90 | R9P | 84-87 |
| R9S | 87-88 | R9S | 83-86 |
| R4H | 82-89 | R4H | 79-88 |
| R4M | 85-89 | R4M | 80-85 |
| R7H | 82-91 | R7H | 80-90 |