**ANEST IWATA**

## Dry Scroll Vacuum Pump

# DVSL Series

CE  CSA®

LR104996
(Canadian Standards Association)

# Dry Scroll Vacuum Pump



**S**

**RoHS** **CSA** **CE**

# DVSL-100C

## Dimensions



## Pumping speed
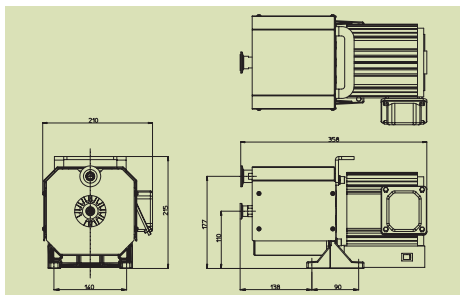


DVSL-100C Pumping Speed
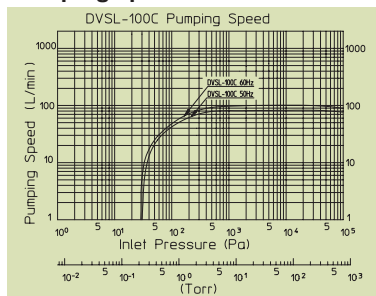
## Specifications

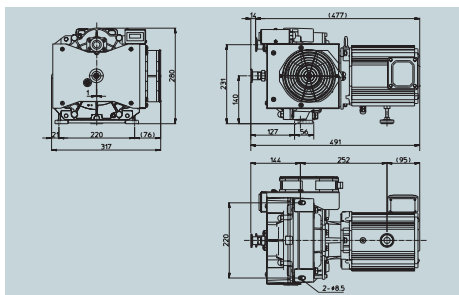| Trade name | | Oil free scroll vacuum pump |
|---|---|---|
| Model | | DVSL-100C |
| Pumping speed | L/min (CFM) 50/60Hz | 100/120 (3.5/4.2) |
| Ultimate pressure | Pa(Torr) | ≦50 (3.8x10⁻¹) |
| Motor power | W | 300 |
| Voltage | V | 1Ph | 100,115,200,230 |
| | | 3Ph | - |
| Noise level | dB (A) | 65 |
| Noise level (at air-flush) | | 68 |
| Weight | kg | 1Ph | 15 |
| | | 3Ph | - |
| Water vapor capacity | g/day | 100 |
| Air flush | L/min | 5 |
| Inlet connection | NW | 25(with RC 3/8) |
| Outlet connection | NW | 16 |
| Cooling system | | Air-cooled |
| Ambient temperature | ℃ / ℉ | 5 〜 40 / 41 〜 104 |
| Back-up material | | Fluorine rubber |

## Features

- DVSL scroll pump is equipped with dry vacuum system without using lubricating oil or sealing water.
- No gears result in no need to exchange of gear oil and no risk of leaked lubricating oil.
- Easy – maintenance available.
- Generated clean vacuum keeps installation area clean.
- Equipped cooling system frees from the trouble of controlling cooling water and selecting installation site.
- Excellence in displacing water vapor.
- Reliable Design – Little power variance between atmospheric pressure and the ultimate pressure allows repeated continuous operation between atmospheric pressure and vacuum.
- Standard equipped hour meter enables easy daily operation. Only supplied with DVSL-500C / 501C.
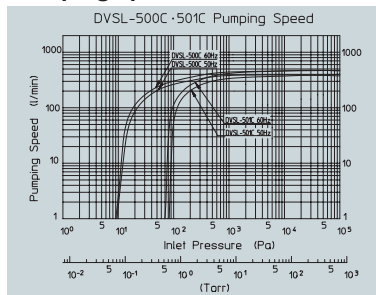- Excellence in energy-savings in vacuum area. 24 hrs operations secured.

# SDry

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# DVSL-500C/501C

## Dimensions



## Pumping speed



DVSL-500C・501C Pumping Speed

## Specifications

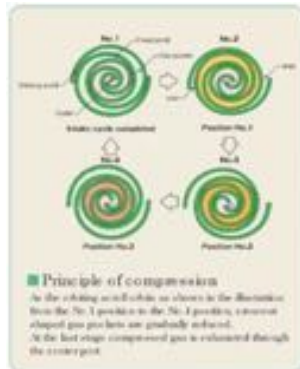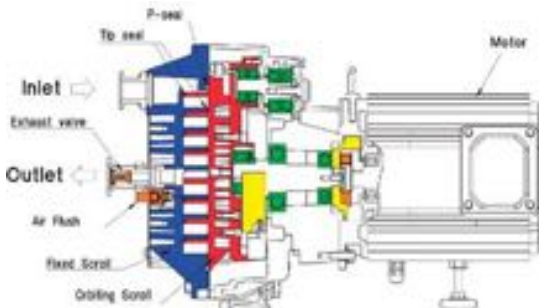| Trade name | | Oil free scroll vacuum pump | |
|---|---|---|---|
| Model | | DVSL-500C | DVSL-501C |
| Pumping speed | L/min (CFM) 50/60Hz | 430/520 (15.2/18.4) | |
| Ultimate pressure | Pa(Torr) | ≦30(2.3x10⁻¹) | ≦100 (7.5x10⁻¹) |
| Motor power | W | 900/1100 | |
| Voltage | V | 1Ph | - | |
| | | 3Ph | 200,208,230,380,415,400,460 | |
| Noise level | dB (A) | 64 | |
| Noise level (at air-flush) | | 69 | |
| Weight | kg | 1Ph | - | |
| | | 3Ph | 36 | |
| Water vapor capacity | g/day | 250 | |
| Air flush | L/min | 10 | |
| Inlet connection | NW | 25( with RC 1/2 ) | |
| Outlet connection | NW | 25 | |
| Cooling system | | Air-cooled | |
| Ambient temperature | ℃ / ℉ | 5 ～ 40 / 41 ~ 104 | |
| Back-up material | | Silicon rubber | Fluorine rubber |

## Applications

- Vacuum Chuck
- Vacuum Transport
- Vacuum Forming
- Deaerator
- Gas Substitution
- Vacuum Drying
- Vacuum Packing
- Cryopump Regeneration
- Leak Test
- Roughing for TMP

### Air Flush

**Purpose for Air Flush** - Pumping humid gas with a vacuum pump can cause condensed moisture to remain in the pump. This remaining moisture can cause a failure to the pump or ultimate pressure. The Air Flush operation is necessary to remove remaining moisture. The Air Flush operation not only removes the remaining moisture but recovers ultimate pressure.

## DVSL-500C / 501C





**Principle of compression**

As the orbiting scroll orbits as shown in the illustration from the No.1 position to the No.4 position, crescent shaped gas pockets are gradually reduced. At the last stage compressed gas is exhausted through the center port.

⚠️ **Precaution on Usage**

- This vacuum pump is suitable for use on **Clean processes only.**
- Do not use explosive, flammable, toxic or corrosive substances or substances which contain chemicals, solvents or particles.
- ANEST IWATA will not perform maintenance work on pumps which have used hazardous substances.
- Do not disassemble, reassemble or alter pump and parts on user's side.
- Be sure to read instruction manual and understand it fully before use.
- When maintenance interval has been reached, be sure to contact our distributor who sold it to you.
- The guarantee period is based on instruction manual. Maintenance interval and the guarantee period are different.

⚠️ **Precaution on installation**

**Danger of explosion and fire**
- Install in an area which is not exposed to explosives, flammable gas, or other related things.
- Pumps which are shown in this catalog do not have breaker for avoiding motor burnout by installing, Avoid motor burnout using breaker.
- Electric source cord is not included in the pump. Use electric source cord which is instructed by instruction manual.
- This vacuum pump is required maintenance by interval which is shown on the instruction manual.
- Install the pump where it has enough ventilation and available maintenance.

**distributed by:**

Try to Dry

**ANEST IWATA**