

# **PIDEE** PUMPS

## **OIL SEALED ROTARY HIGH VACUUM PUMPS**



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These Are Oil-immersed,rotary Vane Type Pumps. The Rotor, With Two Spring Loaded Vanes, Is Mounted Eccentric In The Stator Body. As The Rotor, Rotates The Vanes Sweep The Creascent Shape, Air Space Twice In Each Revolution, There Is In-built Non-return Valve Which Prevents Back Flow Of Air. Manufactured From Graded Material, All Moving Parts Are Precisely Machined, Ground And Assembled With Close Tolerances.This Results In Increased Efficiency And Long Trouble Free Operating Life.



### **APPLICATION**

- Distillation
- Dehydration And Filtration Processes.
- Gls Lamps
- Mercury Vapour Lamps & Tubes.
- Exhausting Electronic Tubes.
- Refrigerator And Air- Conditioner Servicing.
- Freeze Drying Of Foods.
- Vacuum Metallurgy.
- Vacuum Sublimation
- Thin Film Coating.

### **ACCESSORIES**

- Moisture Trap, Inlet Dust Filter, Vacuum Gauge With Regulator.
- Use Oil : Enco-46,68,100 Or Equivalent, Vacuum Oil.
- Model PDHV-300-II And Above Are Provided With Water Cooling Jacket.
- Vacuum Measured By Mcleod Gauge At Suction Port Of The Pump.

**Performance Table Of "PIDEE" PDHV Series  
Oil Sealed, Rotary High Vaccum Pumps**

| Model No.  | No.Of Stages | Free Air Displacement |        | Ultimate Vacuum Mm Of Hg. | Drive Motor Reqd. H.p. | Approx Oil Filling Ltrs. |
|------------|--------------|-----------------------|--------|---------------------------|------------------------|--------------------------|
|            |              | L./min.               | C.F.M. |                           |                        |                          |
| PDHV-50    | 1            | 50                    | 1.8    | 0.05                      | 0.25                   | 2                        |
|            | 2            | 50                    | 1.8    | 0.005                     | 0.25                   | 2                        |
| PDHV-100   | 1            | 100                   | 3.5    | 0.05                      | 0.25                   | 2                        |
|            | 2            | 100                   | 3.5    | 0.005                     | 0.5                    | 3                        |
| PDHV-150   | 1            | 150                   | 5.3    | 0.05                      | 0.5                    | 3                        |
|            | 2            | 150                   | 5.3    | 0.005                     | 1.0                    | 4                        |
| PDHV-300   | 1            | 300                   | 10.6   | 0.05                      | 1.0                    | 6                        |
|            | 2            | 300                   | 10.6   | 0.005                     | 1.5                    | 8                        |
| PDHV-500   | 1            | 500                   | 17.6   | 0.05                      | 1.5                    | 8                        |
|            | 2            | 500                   | 17.6   | 0.005                     | 2.0                    | 8                        |
| PDHV-750   | 1            | 750                   | 26.5   | 0.05                      | 2.0                    | 10                       |
|            | 2            | 750                   | 26.5   | 0.005                     | 3.0                    | 10                       |
| PDHV-1000  | 1            | 1000                  | 35.3   | 0.05                      | 3.0                    | 15                       |
|            | 2            | 1000                  | 35.3   | 0.005                     | 3.0                    | 15                       |
| PDHV-1500  | 1            | 1500                  | 53.0   | 0.05                      | 3.0                    | 20                       |
|            | 2            | 1500                  | 53.0   | 0.005                     | 5.0                    | 25                       |
| PDHV-2000  | 1            | 2000                  | 70.6   | 0.05                      | 5.0                    | 25                       |
|            | 2            | 2000                  | 70.6   | 0.005                     | 5.0                    | 30                       |
| PDHV-3000  | 1            | 3000                  | 106.0  | 0.05                      | 5.0                    | 35                       |
|            | 2            | 3000                  | 106.0  | 0.005                     | 7.5                    | 40                       |
| PDHV-5000  | 1            | 5000                  | 177.0  | 0.05                      | 7.5                    | 40                       |
|            | 2            | 5000                  | 177.0  | 0.005                     | 10.0                   | 45                       |
| PDHV-7500  | 1            | 7500                  | 265.0  | 0.05                      | 10.0                   | 50                       |
|            | 2            | 7500                  | 265.0  | 0.005                     | 15.0                   | 55                       |
| PDHV-10000 | 1            | 10000                 | 353.0  | 0.05                      | 15.0                   | 65                       |
|            | 2            | 10000                 | 353.0  | 0.005                     | 20.0                   | 75                       |
| PDHV-15000 | 1            | 15000                 | 530.0  | 0.05                      | 25.0                   | 85                       |
|            | 2            | 15000                 | 530.0  | 0.005                     | 25.0                   | 95                       |
| PDHV-20000 | 1            | 20000                 | 706.0  | 0.05                      | 25.0                   | 100                      |
|            | 2            | 20000                 | 706.0  | 0.005                     | 30.0                   | 110                      |

(A) MOTOR RPM: 1440

(B) PUMP RPM: 500

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**MFG : VACUUM & CENTRIFUGAL PUMPS**

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