

2 STAGE - DIRECT DRIVE DEEP VACUUM PUMPS

The DV Series was created with the serious Automotive A/C Air Conditioning and Refrigeration Technician in mind. The DV Series is manufactured with rigid quality standards with outstanding features and an unprecedented 12 month Over-The-Counter warranty. Models are available in 1.25, 2.5, 4.2, 5.8 & 8.3 CFM (35, 72, 119, 167 and 237 l/h - 2,1, 4,2, 7,1, 9,9 and 14,1 m³/h) to meet any application on systems with refrigerant CFC, HCFC, HFC (R-12, R-22, R-134a, R-416a...).

As a rule of thumb, the CFM rating squared equals the maximum system capacity. A 4,2 CFM (119 l/h - 7,1 m³/h) pump is rated for 62 Kw (53.300 Frig/h - 17,6 Tons); 8,3 CFM (237 l/h - 14,1 m³/h) pump is rated for 242 Kw (208.300 Frig/h - 69 Tons). In many cases, depending on the system line sizes of large tonnage systems, it is better to put two or more of the small, easily handled pumps at different locations. This will overcome some of the pressure drop problems and actually be faster than a single large pump. Pumps in the 1.25 to 8.3 CFM (35 to 237 l/h - 2,1 to 14,1 m³/h) class are adequate to handle 99% of the work.

- Finned aluminum housings for lower operating temperature;
- Break-resistant steel handle with cushioned cool-grip;
- Check Valve prevents oil backflow during power failure;
- Gas ballast valve increases pump down time speed and keeps oil cleaner;
- Large easy to see sight glass;
- Housing protected oil drain valve;
- Blank-Off isolation valve. Quarter turn on-off. Non-restrictive flow pattern with ball valve design. Isolates pump from system for detecting leaks;
- Intake Port :
1/4" + 1/2" ACME-16 + 3/8" Male SAE Flare (DV- 42N)
1/4" + 3/8" Male SAE Flare (DV- 85N);
3/8" + 1/4" + 3/8" Male SAE Flare (DV-142, -200, -285);
- O-Ring sealed easy open drain valve prevents unwanted leaks;
- 1/2 HP dual cycle motor 1425/1725 RPM (can be switched from 230 to 115 Volts - 1 phase - 50/60 Hz) with start capacitor, and thermal overload protection;
- Low profile rocker on-off switch;
- Three point base is heavy duty to prevent overturning.

Tested to 25 µ micron.

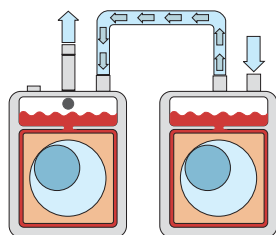
Operating temperature : 60° ± 10° C. (150° ± 18° F.);

Oil Capacity : 865 cc. (30 oz.) for DV- 42N;
 785 cc. (27 oz.) for DV- 85N;
 660 cc. (23 oz.) for DV-142N, and -200N;
 705 cc. (24 oz.) for DV-285N;

Dimension : 365 x 134 x 295 (h) mm. (DV- 42 ÷ 200N);
 390 x 134 x 295 (h) mm. (DV-285N);

Weight : 12,4 Kg. for DV- 42N, 13,7 Kg. for DV- 85N, 14,9 Kg. for DV-142N, 13,7 Kg. for DV-200N, and 17,5 Kg. for DV-285N.

IMPORTANT : Use oil ISO 460 specifically refined for deep vacuum pumps. Using oil not refined for deep vacuum pumps and/or operating with contaminated oil will void warranty.



TWO-STAGE



DV- 42N

DV- 85N



DV-142N

DV-200N



DV-285N

Model	Description
DV- 42N	Dual stage direct drive deep vacuum pump. Capacity 1.5/1.25 CFM (42/35 lt/1' - 2,5/2,1 m ³ /h). 25 µ micron. Motor 1/2 HP 115/220V-1f-60/50Hz.
DV- 85N	As above. Capacity 3.0/2.5 CFM (85/72 lt/1' - 5,1/4,2 m ³ /h). 25 µ micron. Motor 1/2 HP 115/220V-1f-60/50Hz.
DV-142N	As above. Capacity 5.0/4.2 CFM (142/119 lt/1' - 8,5/7,1 m ³ /h). 25 µ micron. Motor 1/2 HP 115/220V-1f-60/50Hz.
DV-200N	As above. Capacity 7.0/5.8 CFM (200/167 lt/1' - 11,9 / 9,9 m ³ /h). 25 µ micron. Motor 1/2 HP 115/220V-1f-60/50Hz.
DV-285N	As above. Capacity 10.0/8.3 CFM (285/237 lt/1' - 17,0 / 14,1 m ³ /h). 25 µ micron. Motor 1/2 HP 115/220V-1f-60/50Hz.

Coale[®]vaC 2 STAGE - DIRECT DRIVE VACUUM PUMPS

The new **Coale[®]vaC** Series high performance vacuum pumps was engineered specifically for Air Conditioning and Refrigeration Service (systems up to 6 Tons - 22 Kw) with refrigerant CFC, HCFC, HFC (R-22, R-134a, R-404a, R-407c, R-410a, AZ-20, Puron[®], R-507...)

- A Model DVE- 35N is rated for 1,56 Tons - 5,5 Kw;
- A Model DVE- 70N is rated for 6,25 Tons - 22,0 Kw;

Two stage, offset rotary vane design provides powerful, quiet high vacuum capability and assures moisture removal, while the high pumping capacity reduces evacuation time. **Coale[®]vaC** uses less oil, reflecting lower maintenance costs. Gasket sealed drain plug prevents unwanted leaks.

- Die-cast aluminum housing, molded board. Precision one-piece, molded handle makes it easy to carry the pump to and from job sites, and the handle stays cool to the touch during operation;
- External check valve prevents oil suckback during power failure;
- Large easy to see sight glass;
- Blank-Off isolation valve. Quarter turn on-off. Non-restrictive flow pattern with ball valve design. Isolates pump from system for detecting leaks;
- Intake Ports with Brass Caps and Chain :
1/4" (7/16" 20UNF) Male SAE;
1/2" Male ACME-16 for R134a;
3/8" (5/8" 18UNF) Male SAE;
- Intake filter prevents foreign matter from entering the pumping chamber, and an internal exhaust filter separates oil vapor from the exhaust flow
- 1/4 HP - 184W and 1/3 HP - 245W motors (1425 RPM 230 Volts - 1 phase - 50 Hz) with start capacitor, and thermal overload protection. (4) Rubber feet;
- Line cord 1,9 m. with Schuko plug.

Specifications :

Operating Temperature : 60° ± 10° C. (150° F. ± 18° F.);

Oil Capacity : 220 cc. - 8 oz. (250 cc. oil included);

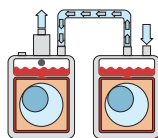
Dimensions : 315 x 120 x 240 (h) mm. (DVE- 35N);
 336 x 123 x 255 (h) mm. (DVE- 70N);

Weight : 10,7 Kg. (DVE- 35N), 12,7 Kg. (DVE- 70N).

Model	Description
DVE- 35N	Coale [®] vaC 2 Stage Vacuum Pump 1,25 CFM - 35 lt/1' - 2,1 m³/h. 50 μ micron ultimate Vacuum. 1/2" Male ACME-16 + 1/4", and 3/8" Male SAE Flare Intake Ports with Ball Valve. Oil Check Valve. 220V-1phase-50Hz.
DVE- 70N	Coale [®] vaC 2 Stage Vacuum Pump 2,50 CFM - 70 lt/1' - 4,2 m³/h. 50 μ micron ultimate Vacuum. 1/2" Male ACME-16 + 1/4", and 3/8" Male SAE Flare Intake Ports with Ball Valve. Oil Check Valve. 220V-1phase-50Hz.



Intake Port w/Ball Valve



2 - STAGE



Check Valve



DVE- 35N

DVE- 70N

