

# CDX1000 Dry Vacuum Pump

Edwards CDX1000 represents the next generation of dry pump technology. The CDX1000 is a double ended mechanism for the chemical process, pharmaceutical and petrochemical industries.

This innovative technology leverages Edwards latest manufacturing and design philosophies. The CDX1000 is suited to larger processes where repeatability and reliability are key. Technologies and manufacturing techniques have been carefully selected to produce a robust, high performance machine that is simple to operate and maintain.



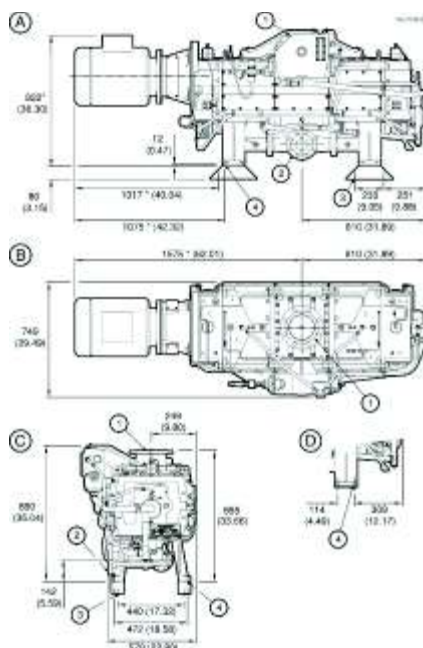
## Features & Benefits

- Continuous performance from atmospheric pressures to ultimate vacuum
- Excellent temperature control
- Large liquid slug capabilities
- No effluent generated
- Dry running mechanism

## Applications

- Processes
- Distillation
- Drying
- Evaporation/Crystallisation
- Solvent/Vapour Recovery

## Dimensions



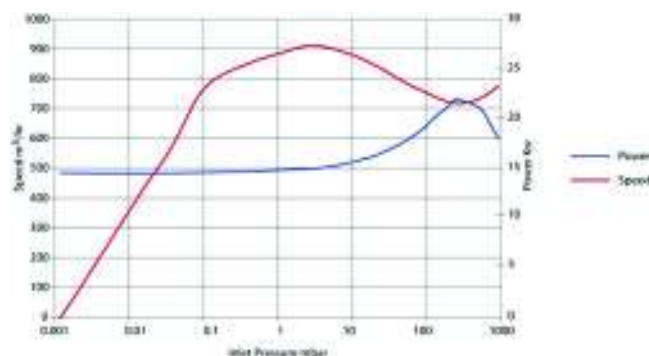
Note: this diagram shows a CDX with integral flame arrestors.

A Side view  
B Plan view  
C End view

D From fixing dimensions with mounting feet removed

1. Pump inlet
2. Pump outlet
3. Fixing holes  $\varnothing 18$  mm (0.71 inch), 2 holes on each mounting foot
4. Fixing holes  $\varnothing 17$  mm (0.67 inch), 2 holes on each mounting bracket

## Performance Curves



## Technical Data

Maximum pumping speed	900 m <sup>3</sup> h <sup>-1</sup> 530 ft <sup>3</sup> min <sup>-1</sup>
Capacity at 10 mbar (7.5 Torr)	900 m <sup>3</sup> h <sup>-1</sup> 530 ft <sup>3</sup> min <sup>-1</sup>
Ultimate vacuum	5 x 10 <sup>-3</sup> mbar 4 x 10 <sup>-3</sup> Torr
Maximum back pressure - standard (optional*)	1150 mbarA 2.0 psig
Power consumption at 10 mbar (7.5 Torr)	17.1 kW 23.2 Hp
Standard motor(380 - 400V, 3 ph, 50 Hz)	30 kW
Standard motor(200 - 460V, 3 ph, 60 Hz)	40 hp
Cooling water flow rate (adjustable)	10 – 20 lmin <sup>-1</sup> 2.64 – 5.28 galmin <sup>-1</sup>
Cooling water supply temperature range	5 – 35 °C / 41 – 95 °F
Cooling water supply pressure	2 – 10 barg 29 – 145 psig
Seal purge flow (maximum), regulated to 0.3 - 0.5 barg, (5 - 7 psig)	24 l min <sup>-1</sup> 0.85 ft <sup>3</sup> min <sup>-1</sup>
Seal purge supply pressure(minimum - maximum)	2 – 10 barg 29 – 145 psig
Noise (max. with exhaust silencer)	82 dB(A)
Weight (with frame and standard motor)	1710 kg 3765 lbs
Process connection, inlet	6" ANSI/DN150
Process connection, outlet	3" ANSI/DN80
Pumping mechanism	

\* Consult Edwards

## Ordering Information

Product Description	Order No.
CDX1000, 30kW, 50 Hz, Flame Proof with Integral Flame Arrestors	A70801985
CDX1000 Dry Vacuum Pump, 30kW, 50 Hz, Flame Proof (without Integral Flame Arrestors)	A70802985
CDX1000 Dry Vacuum Pump, 40 HP, 60 Hz, Flame Proof with Integral Flame Arrestors	A70811985
CDX1000 Dry Vacuum Pump, 40 HP, 60 Hz, Flame Proof (without Integral Flame Arrestors)	A70812985
Accessories & Spares	Order No.
Gear Box Oil 4 Ltr Mobil SHC 629	H11023011
Coolant 0.9/2L Drystar	H12810003
IDX Routine maintenance kit	A70801800
IDX Heat exchanger cleaning kit	A70801801
IDX Cooling system overhaul kit	A70801802
IDX Motor fitting kit	A70801803
IDX Drive coupling kit	A70801804
IDX Bearing and seal replacement kit	A70801805
IDX Oil pump replacement kit	A70801806
IDX Strip and rebuild kit	A70801807
IDX Flame arrestor cleaning kit	A70801808
IDX Hoses kit	A70801809
IDX Flame arrestor replacement kit (inlet)	A70801810
IDX Flame arrestor replacement kit (outlet)	A70801811
IDX Flame arrestor tooling kit	A70801812