

# CXS160 chemical dry pump

Edwards pioneered the industrial dry vacuum pump in 1986 and now with more than 150,000 systems sold worldwide this Edwards expertise has been used to develop a dry pump capable of withstanding the harshest of process applications.

The CXS incorporates innovative screw design features with simplicity and reliability in mind, a 'Plug and Pump' philosophy has been adopted. As a result, the CXS has industry leading reliability, safety and low cost of ownership.



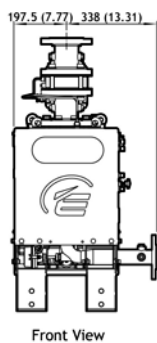
## Features & Benefits

- Continuous vacuum from atmosphere to 10<sup>-3</sup> mbar
- Integral temperature control
- Pumps corrosive vapours without deterioration
- Excellent liquid and solids handling
- Deeper vacuum than traditional technologies - not limited by seal fluid or cooling water temperature

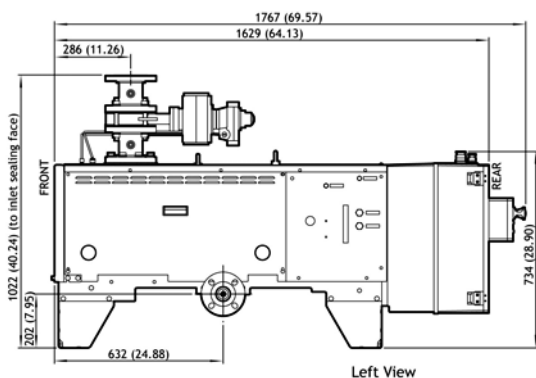
## Applications

- Drying
- Degassing
- Deodorisation
- Distillation
- Reactor service

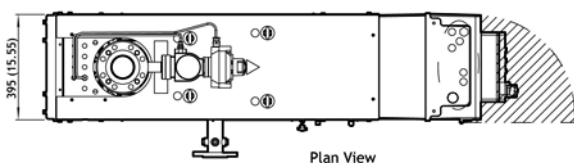
## Dimensions



Front View

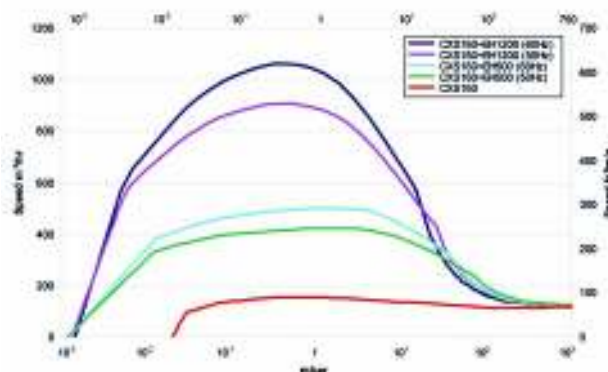


Left View



Plan View

## Performance Curves



## Technical Data

Maximum pumping speed	160 m3h-1 / 95 ft3min-1
Capacity at 10 mbar (7.5 Torr)	132 m3h-1 / 78 ft3min-1
Ultimate vacuum	<0.02 mbar / <0.015 Torr
Maximum back pressure - standard	1,200 mbar / 2.7 psig
Power consumption at 10 mbar (7.5 Torr)	3.6 kW / 4.8 hp
Standard motor (200 - 230V ±10%, 3 ph, 50/60 Hz)	7.5 kW
Standard motor (380 - 460V ±10%, 3 ph, 50/60 Hz)	10 hp
Cooling water flow rate, (adjustable)	4 - 10 lmin-1 / 1.1 - 2.6 galmin-1
Cooling water temperature 5 - 25 °C (41 - 77 °F) for T160 set-ups	5 - 35 °C / 41 - 95 °F
Max cooling water supply pressure	6.9 barg / 100 psig
Cooling water supply differential pressure	1.6 - 5.5 bar / 23 - 80 psi
Seal purge flow (max)	12 std slm / 0.424 std ft3min-1
Seal purge supply pressure, (min - max)	2.5 - 6.9 barg / 36 - 100 psig
Noise (max) with silencer	64 dB(A)
Weight (with frame and standard motor)	470 kg / 1,034 lbs
Process connection, inlet	3/DN80 ANSI/DIN
Process connection, outlet	2/DN50 ANSI/DIN

## Ordering Information

Product Description	Order No.
CXS160 ATEX CAT 2&3 T3 Light duty	CS256000000
CXS160 ATEX CAT 2&3 T3 Light duty, Knitmesh inlet & exhaust flame arrestors	CS256020000
CXS160 ATEX CAT 2&3 T3 Light duty, Protego inlet & exhaust flame arrestors	CS256070000
CXS160 ATEX CAT 2&3 T3 Medium duty+	CS256100500
CXS160 ATEX CAT 2&3 T3 Medium duty+, Knitmesh inlet & exhaust flame arrestors	CS256120500
CXS160 ATEX CAT 2&3 T3 Medium duty+, Protego inlet & exhaust flame arrestors	CS256170500
CXS160 ATEX CAT 2&3 T160 Light duty	CS257000000
CXS160 ATEX CAT 2&3 T160 Light duty, Knitmesh inlet & exhaust flame arrestors	CS257020000
CXS160 ATEX CAT 2&3 T160 Light duty, Protego inlet & exhaust flame arrestors	CS257070000
CXS160 ATEX CAT 2&3 T160 Medium duty+	CS257100500
CXS160 ATEX CAT 2&3 T160 Medium duty+, Knitmesh inlet & exhaust flame arrestors	CS257120500
CXS160 ATEX CAT 2&3 T160 Medium duty+, Protego inlet & exhaust flame arrestors	CS257170500
CXS160 ATEX CAT 1 T3 Light duty, Knitmesh inlet & exhaust flame arrestors	CS256620000
CXS160 ATEX CAT 1 T3 Light duty, Protego inlet & exhaust flame arrestors	CS256670000
CXS160 ATEX CAT 1 T3 Medium duty+, Knitmesh inlet & exhaust flame arrestors	CS256720500
CXS160 ATEX CAT 1 T3 Medium duty+, Protego inlet & exhaust flame arrestors	CS256770500
Accessories & Spares	Order No.
Exhaust condensor	M52808500
Exhaust flame arrestor kit Elmac (Knitmesh)	M52809100
Exhaust flame arrestor kit Protego	M52809140
Exhaust Press Ind Kit (pressure gauge)	M52808480
Exhaust silencer	M52808550
Exhaust valve kit(Manual)	M52808600
Inlet knock out pot	M52809900
Inlet Press Ind Kit (pressure gauge)	M52808460
Inlet pressure transducer (for PID Control)	M52809200
Profibus module	P39753000
Pump mounting frame (for exhaust accessories)	M52808680
Solvent flush tank kit	M52808300

# CXS250 chemical dry pump

Edwards pioneered the industrial dry vacuum pump in 1986 and now with more than 150,000 systems sold worldwide this Edwards expertise has been used to develop a dry pump capable of withstanding the harshest of process applications.

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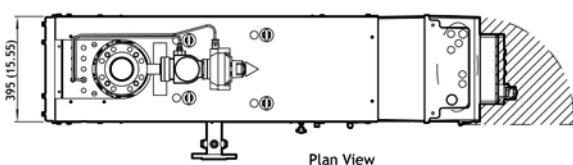
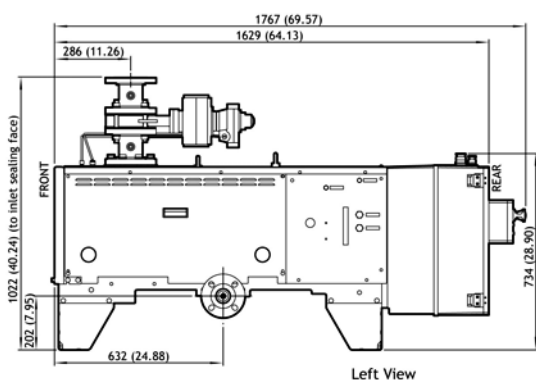
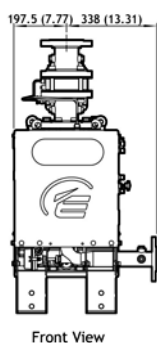
## Features & Benefits

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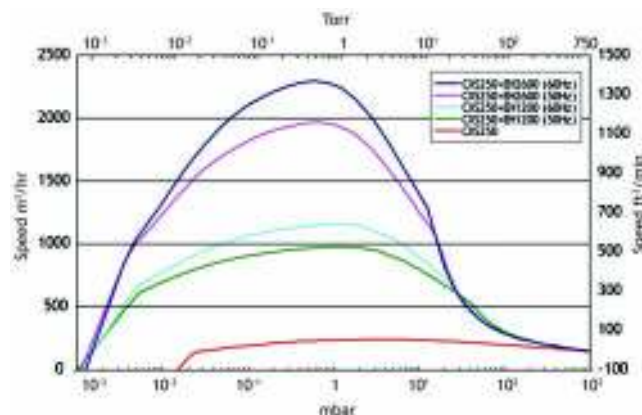
## Applications

- Drying
- Degassing
- Deodorisation
- Distillation
- Reactor service

## Dimensions



## Performance Curves



## Technical Data

Maximum pumping speed	250 m <sup>3</sup> h <sup>-1</sup> / 148 ft <sup>3</sup> min <sup>-1</sup>
Capacity at 10 mbar (7.5 Torr)	230 m <sup>3</sup> h <sup>-1</sup> / 135 ft <sup>3</sup> min <sup>-1</sup>
Ultimate vacuum	<0.015 mbar / <0.011 Torr
Maximum back pressure - standard	1,200 mbar / 2.7 psig
Power consumption at 10 mbar (7.5 Torr)	3.8 kW / 5.1 hp
Standard motor (200 - 230V ±10%, 3 ph, 50/60 Hz)	7.5 kW
Standard motor (380 - 460V ±10%, 3 ph, 50/60 Hz)	10 hp
Cooling water flow rate, (adjustable)	4 - 10 l min <sup>-1</sup> / 1.1 - 2.6 gal min <sup>-1</sup>
Cooling water temperature 5 - 25 °C (41 - 77 °F) for T160 set-ups	5 - 35 °C / 41 - 95 °F
Max cooling water supply pressure	6.9 barg / 100 psig
Cooling water supply differential pressure	1.6 - 5.5 bar / 23 - 80 psi
Seal purge flow (max)	12 std l min <sup>-1</sup> / 0.424 std ft <sup>3</sup> min <sup>-1</sup>
Seal purge supply pressure, (min - max)	2.5 - 6.9 barg / 36 - 100 psig
Noise (max) with silencer	64 dB(A)
Weight (with frame and standard motor)	470 kg / 1,034 lbs
Process connection, inlet	3/DN80 ANSI/DIN
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CXS250 ATEX CAT 2&3 T160 Light duty	CS957000000
CXS250 ATEX CAT 2&3 T160 Light duty, Knitmesh inlet & exhaust flame arrestors	CS957020000
CXS250 ATEX CAT 2&3 T160 Light duty, Protego inlet & exhaust flame arrestors	CS957070000
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