

ACP 15 / 28 / 40

**Dry Compact Multi-stage Roots Pumps.
Clean Vacuum. High Reliability.**

Technical data

Description	Unit	ACP 15	ACP 28	ACP 40
Pumping speed, max.	m ³ /h	14	27	37
	cfm	8.2	16	22
Ultimate pressure without purge gas ¹⁾	mbar	$3 \cdot 10^{-2}$	$3 \cdot 10^{-2}$	$3 \cdot 10^{-2}$
	torr	$2.2 \cdot 10^{-2}$	$2.2 \cdot 10^{-2}$	$2.2 \cdot 10^{-2}$
Ultimate pressure with ²⁾ purge gas ¹⁾	mbar	0.1	0.1	0.1
For G version only ³⁾	torr	$7.5 \cdot 10^{-2}$	$7.5 \cdot 10^{-2}$	$7.5 \cdot 10^{-2}$
Ultimate pressure with open gas ballast ¹⁾	mbar	0.1	0.1	0.1
For SD version only	torr	$7.5 \cdot 10^{-2}$	$7.5 \cdot 10^{-2}$	$7.5 \cdot 10^{-2}$
Maximum continuous inlet pressure	mbar	1,013	1,013	1,013
	torr	750	750	750
Max. pure water vapor tolerance (measured) with open gas ballast (SD version)	g/h	80	120	120
Power supply				
1-phase			100-230 V +/-10 %, 50/60 Hz	
3-phase			200-440 V +/-10 %, 50/60 Hz	
Power consumption ¹⁾				
at ultimate pressure	W	450	700	700
at atmosphere	W	550	1,050	1,050
Ambient temperature	°C		12 to 40	
	°F		54 to 104	
Flange in	ISO-KF	DN 25	DN 25	DN 40
Flange out	ISO-KF	DN 16	DN 25	DN 25
Max. Helium leak rate	mbar l/s	$< 5 \cdot 10^{-7}$	$< 5 \cdot 10^{-7}$	$< 5 \cdot 10^{-7}$
Weight	kg	23	30	32
	lbs	51	66	70.5
Overall dimensions (L x W x H)				
1-phase motor	mm	514 x 190 x 270	647 x 193 x 322	647 x 193 x 322
	inches	20.2 x 7.5 x 10.6	25.4 x 7.6 x 12.6	25.4 x 7.6 x 12.6
3-phase motor	mm	497 x 190 x 266	612 x 187 x 314	612 x 187 x 314
	inches	19.5 x 7.5 x 10.4	24.1 x 7.36 x 12.3	24.1 x 7.36 x 12.3

¹⁾ typical values obtained after minimum 1 hour of pump warm up time

²⁾ 5,000 sccm for ACP 15; 3,700 sccm for ACP 28/40

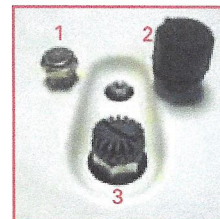
³⁾ relative nitrogen pressure 300 mbar

Several versions for a wide range of applications



Standard version
(ACP 15 / ACP 28 / ACP 40)

The SD version is designed for applications that require pumping of clean (dust-free) and non-corrosive gases. Standard pumps are equipped with a gas ballast device to improve pumping of light gases and avoid vapor condensation inside the pump. Three gas ballast options are available to satisfy customer needs.



- 1 Permanently open inlet filter
- 2 Manual gas ballast knob (open/close)
- 3 Blanked-off (closed by plug)



Version for corrosive gases
(ACP 15G / ACP 28G / ACP 40G)

The G version pump is compatible with traces of corrosive gases. Three purge gas jets protect low and high pressure bearings and dilute trace amounts of corrosive gases.



Purge port R 1/4"

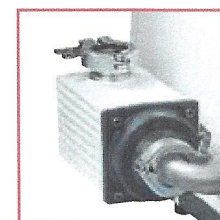


Version for condensable vapors
(ACP 28CV / ACP 40CV)

The CV version is specially designed to avoid vapor condensation inside the pumping module with:

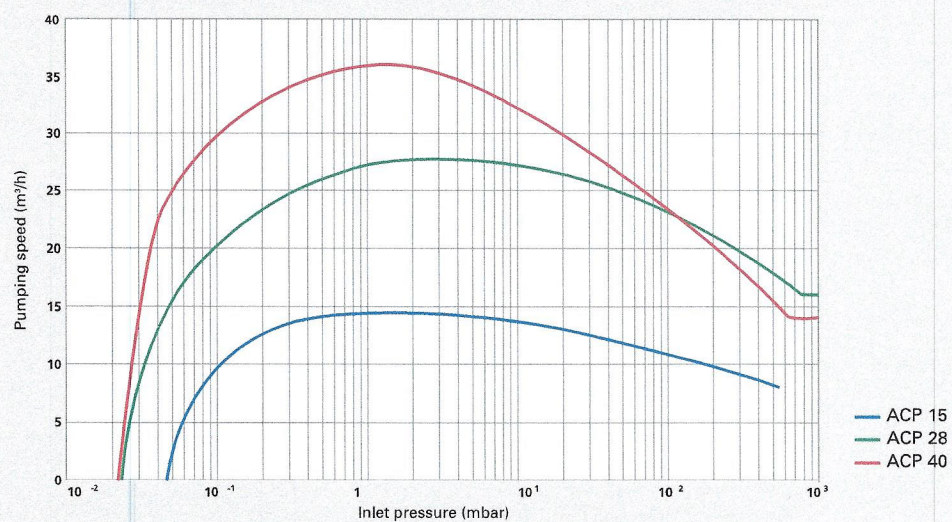
- A high gas ballast flow to warm up the pump and dilute condensable gases
- An external drainable silencer to remove liquid from the lowest point of the exhaust stage.
- A gas purge to protect lip seals and ball bearings from condensable vapors.

CV versions extend the pure water vapor capacity up to 1,000 g/h.

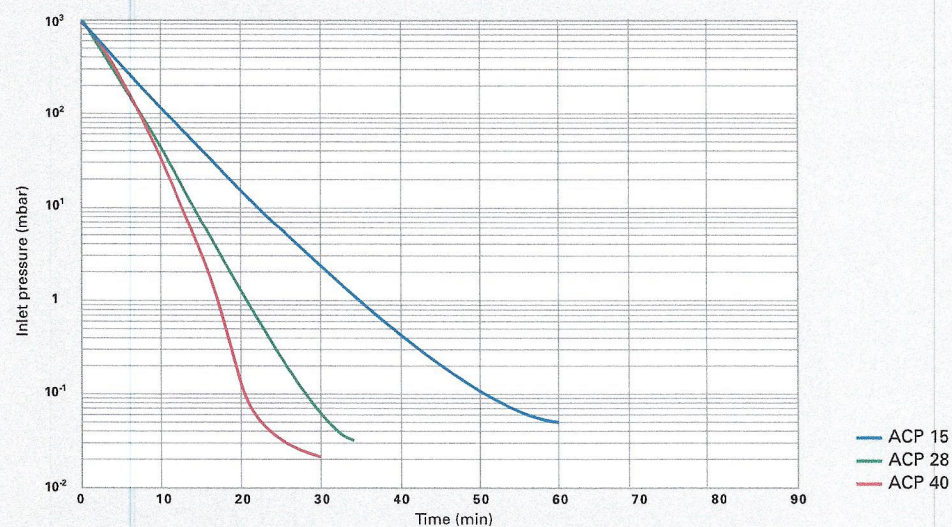


Drainable silencer

Pumping speed



Pressure drop (volume = 1 m³)



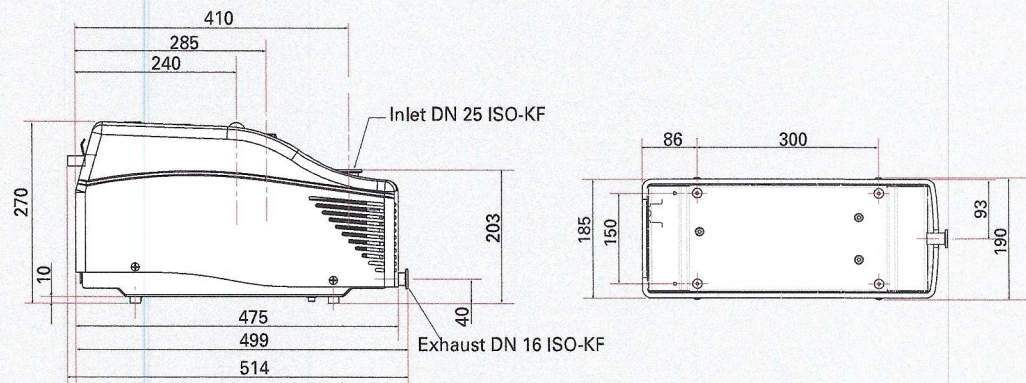


ACP 15 / 28 / 40

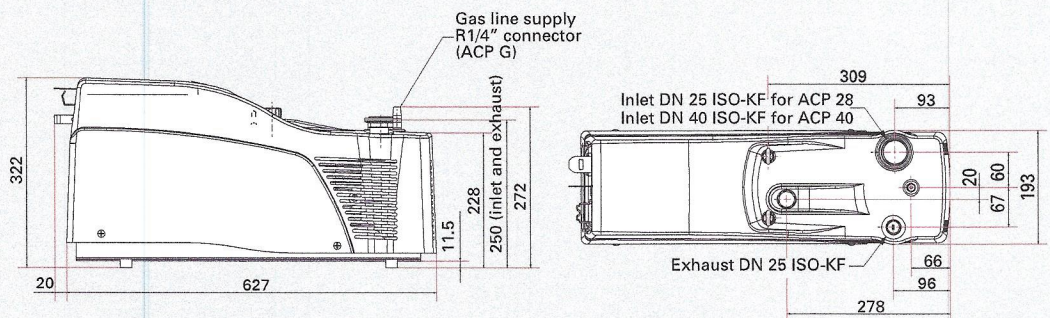
Dry Compact Multi-stage Roots Pumps.
Clean Vacuum. High Reliability.

Dimensions

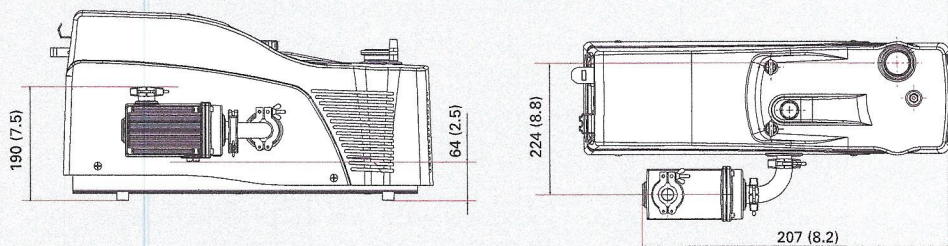
ACP 15 1-phase motor¹⁾



ACP 28/40 1-phase motor¹⁾



ACP 28CV/40CV²⁾



1)3-phase versions are shorter and smaller. See technical specification table.
2)CV versions are wider due to the side mounted external silencer.

Dimensions in mm

Order numbers

ACP 15 pumps

Type	Versions	Inlet port	Exhaust port	Gas ballast	Frequency converter	Power cord	Options
V5: ACP 15	SA: SD version GA: G version	T: DN 25	S: DN 16	M: Manual (On/Off) B: Blanked R ²⁾ : R 1/4" port (GA version) F: Permanent filter (mesh)	F: 1-phase T: 3-phase	K: UK A: US S: Switzerland J: Japan (1 cable LV only) E: Europe Z: Without R ¹⁾ : 3-phase (without plug)	F: Rubber feet
V5	SA	T	S	M	F	E	F

Example: V5SATSMFEF

¹⁾ R is the only option for three phased pump

²⁾ R is the only option for G version

ACP 28/40 pumps

Type	Versions	Inlet/Exhaust	Motor	Frequency converter	Power cord	Gas ballast	Options
V6: ACP 28 V8: ACP 40	SA: SD version GA: G version GV: CV version	T: ACP 28 DN 25/DN 25 C: ACP 40 DN 40/DN 25	S: Standard	F: 1-phase T: 3-phase	K: UK A: US S: Switzerland J: Japan (1 cable LV only) E: Europe Z: Without R ³⁾ : 3-phase (without plug)	M: Manual (On/Off) B ⁴⁾ : Blanked F: Permanent filter (mesh) V ⁵⁾ : Manual (On/Off) (CV version) H ⁵⁾ : Permanent filter (CV version)	F: Rubber feet R: Wheels
V6	SA	T	S	F	E	M	F

Example: V6SATSFEMF

³⁾ R is the only option for 3-phased pumps

⁴⁾ B is the only option for G version

⁵⁾ V or H are the only options for CV versions

