



crožair

www.crozair.com

**PRODUCT
CATALOGUE
JAN, 2019**



**ARYA SERIES'
DRY SCROLL VACUUM PUMPS**

HISTORY OF DRY SCROLL VACUUM PUMPS

In 1905 a French Engineer Leon Creux First patented as Steam Expander, he invented it as a rotary steam engine, but the metal casting & mechanising technology of the period was not sufficiently advanced to construct a working prototype. Since it demands very tight tolerances to function effectively, the first practical scroll came in to existence when higher precision machine tools permitted their construction. Since 1970 widely used in air conditioner and 1990 onward used as Vacuum Pump.



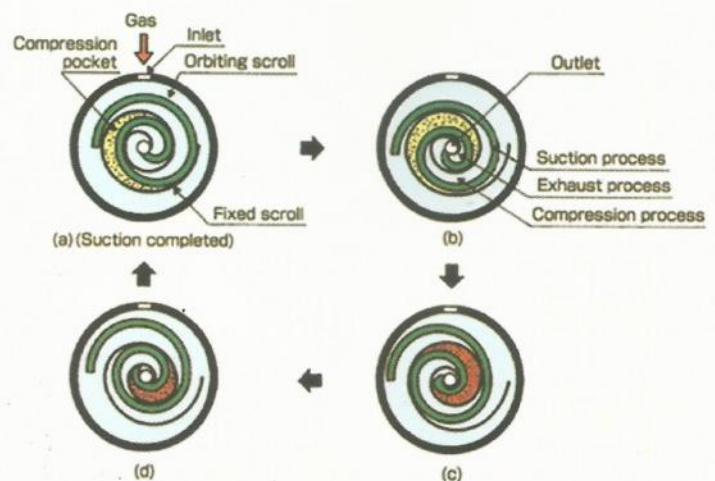
KEY FEATURES

- Compact Design
- Low Rotational Speed
- No effect by vapor contamination
- One Man One Hour Maintenance Approach
- Especially designed for Chemical & Pharma Application
- Cantilever design makes it most easy for routine opening & cleaning Operation
- Only One Moving Part in Vacuum Generation Area

AN INSIGHT TO CROZAIR

Backed by a strong technical expertise and access to international industry standard, we at Crozair, redefine innovation at every step. We're Proud to share that Crozair is the first Company Worldwide to Design, Developed and Patent Applied for Dry Scroll Vacuum Pumps for Chemical & Pharma Application.

OPERATING PRINCIPLE



TECHNOLOGY

ARYA Series' Scroll Vacuum Pump uses two interleaving Scrolls to Pump. The scroll geometry may be Archimedean or hybrid curves. One of the scrolls is fixed, while the other orbits eccentrically without rotating, thereby trapping and pumping or progressive compressing pockets of fluid between the scrolls. The compress gases move toward center for exhaust.

TECHNICAL SPECIFICATION

MODEL NO/SPECIFICATIN	UNIT	ARYA 10	ARYA 50	ARYA 100	ARYA 150
TH. PUMPING CAPACITY FAD @ 1 Atm @ 1500 RPM	LPM	300	2400	4400	6500
	M ³ /Hr	18	145	265	396
ULTIMATE VACUUM	Mbar	< 1.33	< 1.33	< 1.33	< 1.33
	Torr	< 1.00	< 1.00	< 1.00	< 1.00
MAX INLET PRESSURE	atm	1	1	1	1
MAX OUTLET PRESSURE	atm	1.3	1.5	1.5	1.5
MOTOR POWER	KW / H.P.	2.23 / 3	3.72 / 5	7.5 / 10	11.2 / 15
PUMP ROTATIONAL SPEED	RPM	750	750	730	700
COOLING WATER FLOW RATE	Liter/min	1.5	2	5	7
TRANSMISSION LUBRICATION	Liters	3	7.5	12	15
SUCTION PORT	DIN Flange	11/2	2	3	4
DISCHARGE PORT	DIN Flange	1	1	1.5	2
NOISE LEVEL @blank off @ 10M	dBa	< 75	< 76	< 76	< 78
SCROLL MOC	Equivalent to	ASTM A439 Grade D2 58-30-8	ASTM A439 Grade D2 58-30-8	ASTM A439 Grade D2 58- 30-8	ASTM A439 Grade D2 58-30-8



ARYA HVHD DRY SCROLL VACUUM SYSTEM

ARYA HVHD Series' multistage specifically designed for High Displacement under High Vacuum which is must for many critical Chemical & Pharma applications.

HVHD series' multistage vacuum system comprises ARYA Series' Dry Scroll Vacuum Pump in Combination with BR Series' twin lobe Vacuum Boosters which deliver high displacement and high vacuum.

Application centric innovation, true work horse, time tested and field proven which position it as best in industry with various benefits.

BENEFITS

- Reduces Operating Time
- High Distillates Flow Rate
- Low Temperature Distillation
- Most suitable for thermal sensitive products
- Almost 80-85% Low Operating Cost Compare to Steam Ejector
- No Water / Air Pollution Compare to Steam Ejectors
- Designed for High degree of Reliability & Long Operating Hours, which position as perfect replacement of Steam Ejectors
- Fast Evacuation
- Low Pitch Formation
- No Nitrogen Purging as Other Dry Vacuum Pumps.
- Deliver High Displacement even Under High Vacuum which is must for Chemical & Pharmaceutical Applications

SOME OF OUR VALUED CUSTOMERS

- Electric motor as appeared in catalogue is not the part of standard offer
- For future improvement and up-gradation Crozair Technicea reserved rights to change machine feature & model
- This catalogue briefly outlines our standard pump range, detailed information of all our pumps and accessories are available at individual data sheet. If you can't find pump suitable to your application within our standard range, our technical engineers are always available to respond to the specific need of customer applications

crozair TECHNICEA

For India and SAARC Nation Sale, Contact :

Unit No. : 10 Phase - 2, Madhu Vrinda, Dhuri Industrial Complex - 1,
Waliv Phata, Sativali Road, Vasai (E) Palghar, Mumbai - 401208, Maharashtra, India.

Ph: +91 9284217275

Mail: enq@crozair.com

www.crozair.com