Enviro Two-stage Compression Screw Air Compressor:

Introduction:

Two-stage screw air compressor not only has the advan tages of simple structure, flexible installation and high efficiency, but also highlights its own advantages of high efficiency and energy saving:

1. Can reduce the bearing load and increase the volumetric efficiency;
2. It can improve efficiency and save energy when running under partial load conditions.
   Two-stage screw air compressor can save up to 15% energy compared with double-screw air compressor. Each year, it can run for 8000 hours, saving about 28,000 usd per year in
   electricity costs.

Advantages of two-stage screw air compressor :

1. Two stage compression to save compression work
   Divide the process into two compression processes, can reduce the compression ratio of each single-stage, which can significantly reduce the power needed for compression.For ideal gas, the power required for single-stage compression is equal to the
   multi-stage compression. But in the actual compression process coupling transfer, bearing friction will cause useless work, Therefore, by reducing the compression ratio of each stage can reduce the useless work, so that multi-stage compression use less power than single-stage compression.
2. Intermediate oil cooling:
   Reduce the temperature of compressored air to next stage.When the air is compressed, the temperature will rises due to friction, tempera ture rise will increase the pressure of the gas and increases the compression ratio.It will need extra power to drive the device to compress the air to the desired pressure. Therefore, it provide
   intermediate oil cooling with the two-stage screw air compressor to reduce the temperature of compressored air to next stage.

TWO-STAGECOMRESSION
SCREW AIR COMPRESSOR

Two-stage Compression Screw Air Compressor Parameters

Parameter \ Model		SR 20-II	SR 25-II	SR 30-II	SR 40-II	SR 50-II	SR 60-II	SR 75-II	SR 100-II
Air delivery/ Discharge pressure (m³/min)/Mpa		3m³/0.7mpa	3.6m³/0.7mpa	4.2m³/0.7mpa	6.5m³/0.7mpa	7.2m³/0.7mpa	9.8m³/0.7mpa	12.8m³/0.7mpa	17.5m³/0.7mpa
		2.9m³/0.8mpa	3.5m³/0.8mpa	4.1m³/0.8mpa	6.4m³/0.8mpa	7.1m³/0.8mpa	9.7m³/0.8mpa	12.5m³/0.8mpa	16.5m³/0.8mpa
		2.4m³/1.0mpa	2.9m³/1.0mpa	3.5m³/1.0mpa	4.9m³/1.0mpa	6.3m³/1.0mpa	7.8m³/1.0mpa	9.6m³/1.0mpa	12.5m³/1.0mpa
		2.2m³/1.3mpa	2.5m³/1.3mpa	3.2m³/1.3mpa	4.2m³/1.3mpa	5.4m³/1.3mpa	6.5m³/1.3mpa	8.6m³/1.3mpa	11.2m³/1.3mpa
Lubricating oil capacity (L)		18			30			65	
Noise dB(A)		68 ± 2					72 ± 2		
Driving mode		Diret Drive							
Power Supply		380V/50Hz Customizable							
Power (kw/hp)		15	18.5	22	30	37	45	55	75
Startup mode		Y-△ Start up, frequency conversion start							
Exterior dimension	L mm	1500			1770		1900	2160	
	W mm	920			1140		1220	1410	
	H mm	1240			1460		1560	1760	
Weight(kg)		680	720	780	980	1080	1680	1980	2080
Outlet pipe diameter		R1-1/4			R1-1/2			R2	

Parameter \ Model		SR 125-II	SR 130-II	SR 175-II	SR 200-II	SR 250-II	SR 270-II	SR 300-II	SR 350-II
Air delivery/ Discharge pressure (m³/min)/Mpa		20.8m³/0.7mpa	24.5m³/0.7mpa	30m³/0.7mpa	34.5m³/0.7mpa	41m³/0.7mpa	44.6m³/0.7mpa	48.6m³/0.7mpa	55m³/0.7mpa
		19.8m³/0.8mpa	23.5m³/0.8mpa	28m³/0.8mpa	33.6m³/0.8mpa	38.4m³/0.8mpa	43m³/0.8mpa	47m³/0.8mpa	54m³/0.8mpa
		16.9m³/1.0mpa	19.7m³/1.0mpa	23.5m³/1.0mpa	30m³/1.0mpa	32.5m³/1.0mpa	38.5m³/1.0mpa	41m³/1.0mpa	46m³/1.0mpa
		14.3m³/1.3mpa	17.6m³/1.3mpa	19.8m³/1.3mpa	23.8m³/1.3mpa	28.6m³/1.3mpa	32.8m³/1.3mpa	38m³/1.3mpa	40m³/1.3mpa
Lubricating oil capacity (L)		102		120		140		170	
Noise dB(A)		72 ± 2			75 ± 2			82 ± 2	
Driving mode		Diret Drive							
Power Supply		380V/50Hz Customizable							
Power (kw/hp)		90	110	132	160	185	200	220	250
Startup mode		Y-△ Start up, frequency conversion start							
Exterior dimension	L mm	2620		2960		3210		3480	
	W mm	1620		1830		1940		2040	
	H mm	1920		2020		2200		2350	
Weight(kg)		3280	3480	3980	4280	5200	5600	6500	6600
Outlet pipe diameter		R2-1/2		DN80		DN80		DN100	