

Open-type Single-stage Screw Compressor Unit

SRM Open-type Single-stage Screw Compressor Units include 5 series totaling 16 models. These series are developed on the standards of high reliability and high energy efficiency. They could be packaged with variable frequency motor, applicable for R717, R404A and R507A. The unit is controlled intelligently through computer. Easy operation and high-degree automation. The standard scope of supply: compressor, open-type motor, control center, oil separator, oil cooler, (Economizer), high capacity filter, pre-lubricating oil pump, automation components, valves, etc.

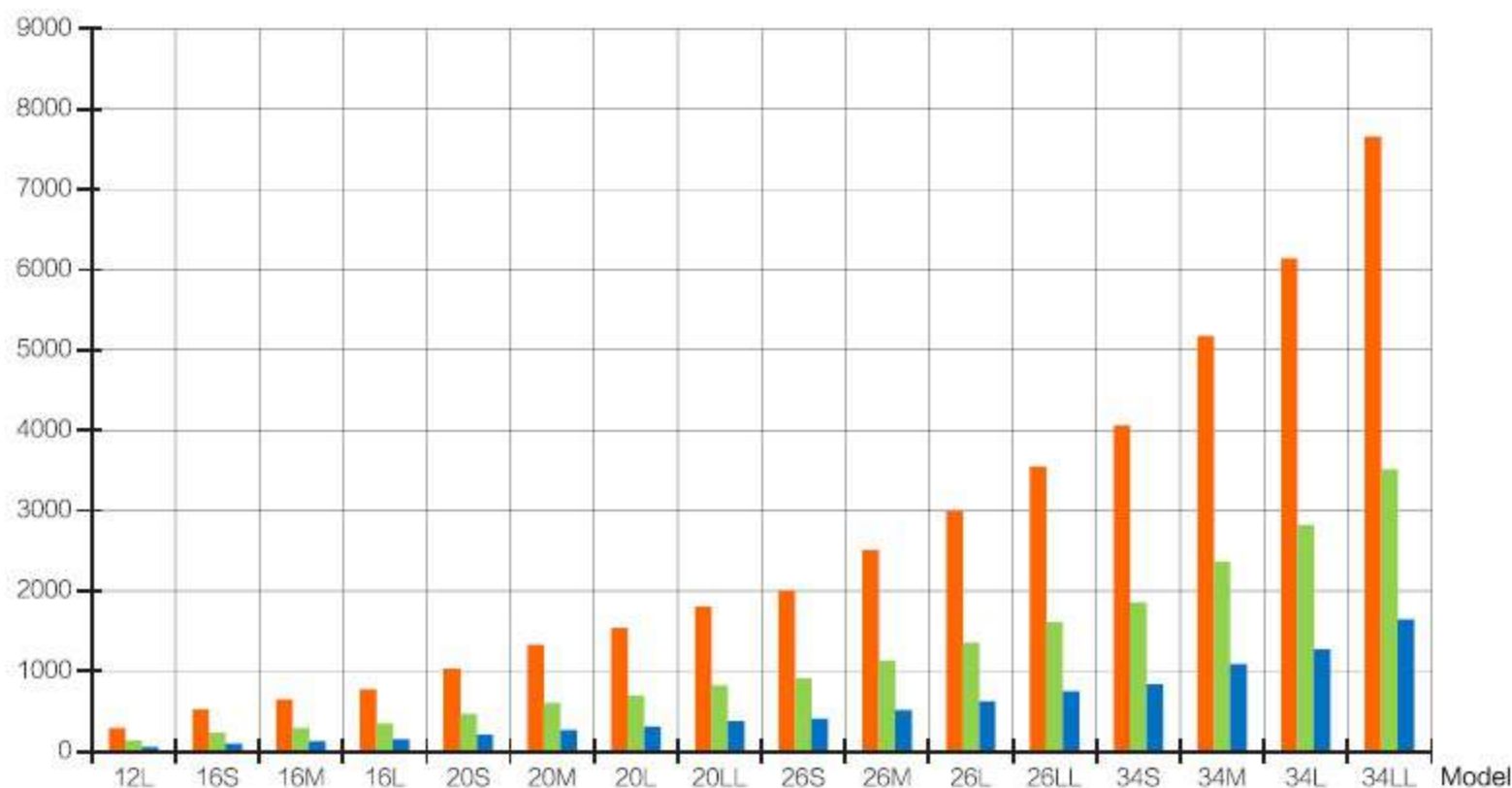


- SRM high-efficiency screw compressor: higher COP than the same type of compressor units.
- Open asynchronous motor with high efficiency and low noise; the permanent magnet synchronous variable frequency motor is also available for selection.
- Differential-pressure oil supply system with a small oil pump as pre-lubrication: energy-saving and reliable.
- Economizer installed: make the high pressure liquid from the condenser subcooled, thus improve COP of the system.
- Fully automatic one-key start-up; real-time analysis and monitoring of the operation status; saving and keeping of the historical data, remotely control.
- Automatic capacity control make the unit run with high efficiency under various working conditions.
- The preventive safety and protection system: unmanned but safe and reliable.
- All the components are from well-known manufacturers: high reliability and guaranteed quality.
- Each unit is tested and checked for its full performance to ensure the quality.

Cooling Capacity of the Unit

Cooling Capacity (kW)

High Temp Med Temp Low Temp



Note: 1. 2960RPM, suction overheat 5°C, Refrigerant NH₃.

2. High Temp: +5°C /+35°C, Med Temp: -15°C /+35°C, Low Temp: -35°C /+35°C.

Open-type Single-stage Screw Compressor Unit (Continued)

Technical Parameter

Item		Unit	12 Series			16 Series									20 Series					
Compressor	Model		SRM-12L			SRM-16S			SRM-16M			SRM16L			SRM-20S			SRM-20M		
	Theoretical displacement	m ³ /h	265			435			544			652			850			1100		
	Capacity Control Range		Stepless Control: 10~100%			Stepless Control: 10~100%									Stepless Control: 10~100%					
Refrigerant	Type		R717	R22	R507	R717	R22	R507	R717	R22	R507	R717	R22	R507	R717	R22	R507	R717	R22	R507
Cooling Capacity	High Temp	kW	290	266	-	519	458	-	649	555	-	778	666	-	1027	916	-	1329	1185	-
	Med Temp	kW	133	126	138	232	218	226	291	264	286	348	118	341	465	440	443	605	568	577
	Low Temp	kW	58	67	83	102	117	137	129	142	172	155	172	205	208	237	247	268	305	324
Motor	High Temp	kW	55	55	-	90	90	-	110	110	-	132	160	-	185	185	-	220	220	-
	Med Temp	kW	55	55	75	90	90	110	110	110	132	132	132	160	185	185	220	220	220	280
	Low Temp	kW	55	55	75	90	90	110	110	110	132	110	132	160	160	160	200	200	200	250
	Power supply		3P/380V/50Hz			3P/380V/50Hz									3P/380V/50Hz					
	Rated RPM		2960			2960									2960					
Oil Pump	Power of Motor	kW	-			0.75			0.75			0.75			0.75			0.75		

Item		Unit	20 Series						26 Series											
Compressor	Model		SRM-20L			SRM-20LL			SRM-26S			SRM-26M			SRM-26L			SRM-26LL		
	Theoretical displacement	m³/h	1270			1496			1659			2075			2478			2940		
	Capacity Control Range		Stepless Control: 10~100%						Stepless Control: 10~100%											
Refrigerant	Type		R717	R22	R507	R717	R22	R507	R717	R22	R507	R717	R22	R507	R717	R22	R507	R717	R22	R507
Cooling Capacity	High Temp	kW	1535	1358	—	1806	1618	—	2005	1739	—	2507	2192	—	2994	2634	—	3550	3125	—
	Med Temp	kW	699	654	658	822	770	773	908	838	866	1134	1053	1078	1359	1267	1299	1611	1504	1535
	Low Temp	kW	309	356	378	380	434	444	409	457	498	515	605	624	625	706	748	753	855	885
Motor	High Temp	kW	250	250	—	280	280	—	315	315	—	400	400	—	500	500	—	560	560	—
	Med Temp	kW	250	250	315	280	280	355	315	315	400	355	400	500	450	450	560	500	560	710
	Low Temp	kW	200	220	280	220	280	355	280	280	400	355	400	450	400	450	560	450	500	630
	Power supply		3P/380V/50Hz						3P/380V/50Hz (Optional requirement: 3P/6kV、10kV/50Hz)											
	Rated RPM		2960						2960											
Oil Pump	Power of Motor	kW	0.75			0.75			1.5			1.5			1.5			1.5		

Item		Unit	34 Series											
Compressor	Model		SRM-34S			SRM-34M			SRM-34L			SRM-34LL		
	Theoretical displacement	m³/h	3360			4280			5090			6350		
	Capacity Control Range		Stepless Control: 10~100%											
Refrigerant	Type		R717	R22	R507	R717	R22	R507	R717	R22	R507	R717	R22	R507
Cooling Capacity	High Temp	kW	4060	3638	—	5172	4634	—	6143	5450	—	7661	6876	—
	Med Temp	kW	1858	1747	1768	2364	2252	2255	2817	2620	2598	3512	3272	3227
	Low Temp	kW	839	970	1023	1089	1239	1304	1270	1483	1475	1647	1647	1829
Motor	High Temp	kW	630	710	—	800	900	—	1000	1000	—	1250	1250	—
	Med Temp	kW	560	630	800	710	800	1000	900	900	1120	1120	1120	1400
	Low Temp	kW	560	630	800	630	800	900	800	900	1120	1000	1120	1400
	Power supply		High Voltage: 3P/6kV、10kV/50Hz											
	Rated RPM		2960											
Oil Pump	Power of Motor	kW	1.5			1.5			1.5			1.5		