

Srmtec Open Type Single Stage Refrigeration Screw Compressor Package



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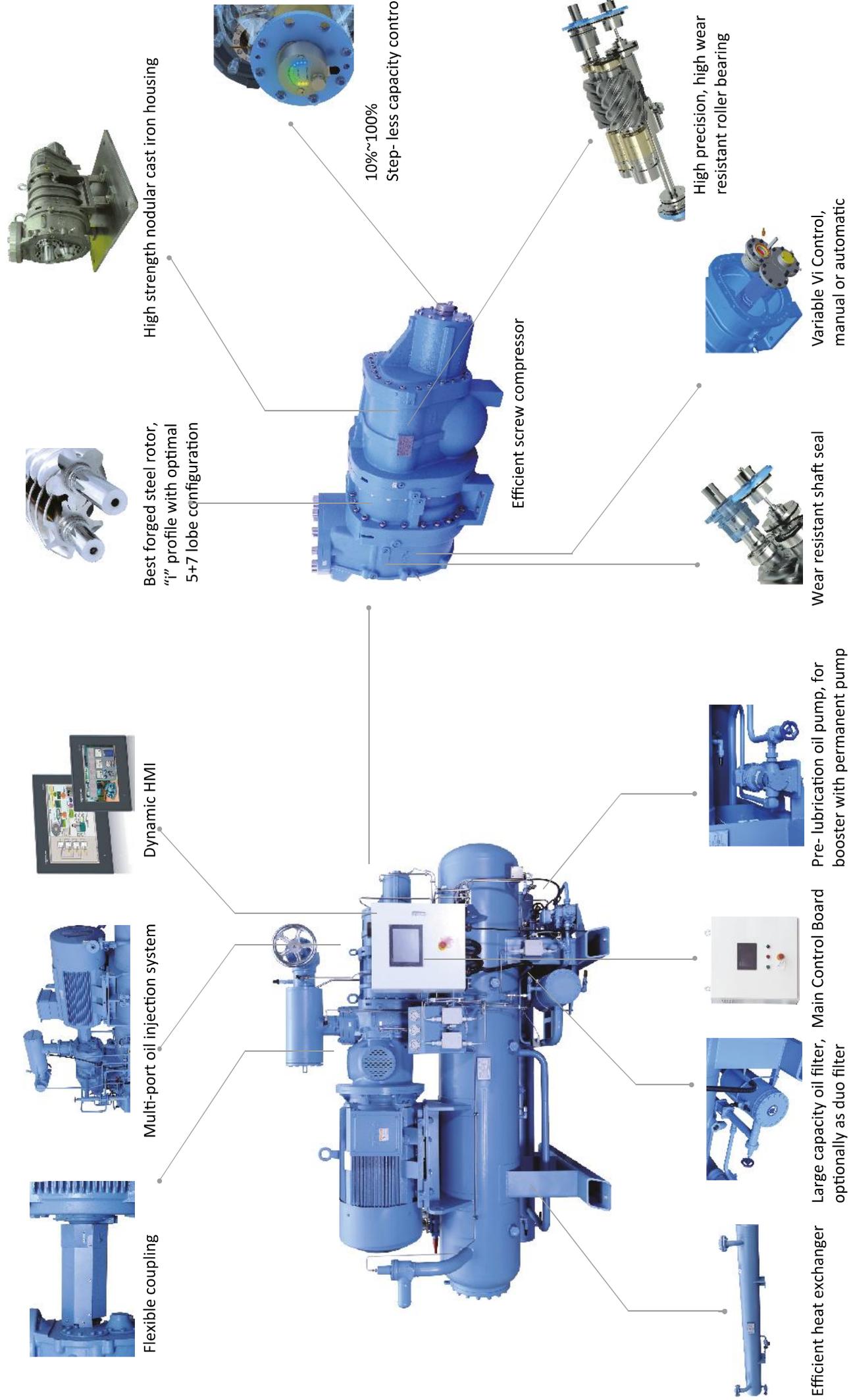
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CONTENT

Description	Page
Product Introduction	
Features Of Srmtec Open Type Single Stage Screw Compressor Package	01- 05
12 Series Single Stage Compressor Package Parameters	06
16 series single stage compressor package Parameters	07
20 series single stage compressor package Parameters	08
26 series single stage compressor package Parameters	09
34 series single stage compressor package Parameters	10
Single stage compressor package system PID	11
Single stage compressor overall dimensions	12 - 15
Compressor package foundation diagram	16
Compressor Technology	17 - 18
Applications	19 - 20

SRMTec Open Type Single Stage Refrigeration Screw Compressor Package

Fully automatic control, excellent energy efficiency performance, reliable and safe design, wide temperature range and highly



Flexible coupling



Multi-port oil injection system



Dynamic HMI



Efficient heat exchanger



Large capacity oil filter, optionally as duo filter



Main Control Board



Pre-lubrication oil pump, for booster with permanent pump



Wear resistant shaft seal



Best forged steel rotor, "1" profile with optimal 5+7 lobe configuration



High strength nodular cast iron housing



10%~100% Step-less capacity control



Efficient screw compressor



High precision, high wear resistant roller bearing



Variable VI Control, manual or automatic

Package Features

Advanced Intelligent Control Center

- User friendly interface, one button start- up, easy operation and intelligent control;
- Real- time unit monitoring. Historical data will be recorded and saved;
- Automatic capacity control allows package to run efficiently at different working conditions;
- Automatic oil temperature control;
- Automatic pressure control to keep discharge pressure and suction pressure within specified range;
- The package adopts vector inverter control to automatically control speed in accordance with capacity demand.
- Remote monitoring and operation by all popular bus- protocols.

Excellent Energy Efficiency Performance

- The package is equipped with SRMTec open screw compressor featuring the patented "i" screw rotor profile;
- Highly sensitive capacity control unit for 10%- 100% stepless capacity control
- Oil pump for pre-lubrication, which is stopped after the pressure difference takes over lubrication for energy saving. For booster systems permanent lubrication pumps are provided.
- For low temperature applications an economizer system is adopted for improved COP.
- Vi control for optimal pressure ratio to achieve high efficiency and smooth operation independent from the mechanical capacity regulation. At standard the Vi is manually adjustable to adapt to changing operating conditions. For highly fluctuating conditions like in air-cooled applications automatic Vi is available as an option.

Reliability

- Rotors with big shaft dimensions resist to flexing and provide strong torque at lowest vibration.
- Nodular cast iron is used for the strong housing for pressures up to 28 MPa.
- Extra-strong wear-resistant roller bearings feature a design life of 100.000 operating hours.
- Innovative shaft-seal structure for stable running with extended operating hours. The silicon carbide coating enables smooth operation for speed up to 10.000 rpm.
- Multiple oil injection ports for perfect lubrication and cooling with the right quantity of oil where it is needed.
- For low temperature applications an economizer system is adopted for improved COP
- Packages are equipped with oil coolers either as thermo-siphon or water-cooled design. Optional regulating valves ensure that oil is supplied at correct temperature to the compressor.

Safe And Reliable Design

- All components are well balanced and of high standard of reputable, international brands.
- SRMTec compressor packages comply to European standards and are CE certified.
- All pressure vessels are generously dimensioned and manufactured according to PED.
- The piping is designed to reduce the already low pulsation of the screw compressor and to withstand vibrations.

Wide Applicable Temperature Range

- Single stage screw compressor packages with inlet temperature range: - 45~+20 °C can be widely applied.

Highly Integrated Design

- Optimal structural design with high integration, small footprint, low transport cost and quick installation with minimised on-site cost.

Efficient Oil Separation System

- Highly efficient 3-stage oil separators ensure oil throw of 3 ppm to keep oil out of the refrigeration system with its negative effects to heat transfer.
- The vessels are supplied with sight glasses, oil heater and safety valves.

Filtration

- The package is fitted with a large suction filter which can easily be cleaned.
- Oil filters with 25 micrometer elements keep any harmful pollution out of the system. Dual oil filters are optionally available.

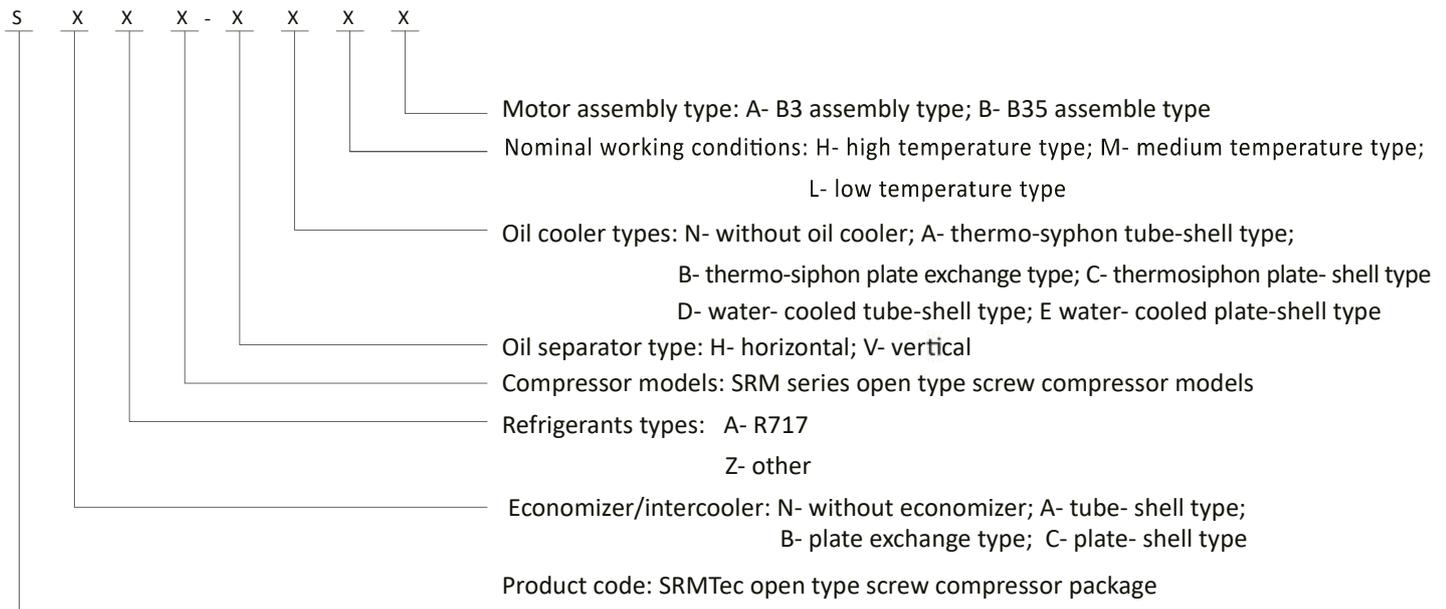
Valves and Piping

- The packages are equipped with check valves on suction and discharge side.
- A pressure holding valve after the oil separator ensures a quick build-up of pressure after start up for reliable lubrication.
- A back-pressure independent safety relief valve from high-to-low-pressure serves as a first line of defense in case of pressure rises beyond safe levels.
- Dual safety valves to atmosphere are mounted on the oil separator

Stable Product Quality

- Hundred years of SRM technology has been proven in applications all around the world.
- Rigorous checking of all welds in the piping system ensure compliance to certification and regulations.

Package model nomenclature



Package working conditions

Evaporating temperature: - 45°C~20°C

Discharge temperatue: ≤100°C

Oil supply temperature: 30°C~70°C

Ambient temperature: - 5°C~+40°C

Refrigerant oil: please refer to SRMTec recommendations

Package nominal working conditions instructions

High temperature working conditions: +5°C /+35°C

Medium temperature working conditions: - 15°C / +35°C

Low temperature working conditions: -35°C / +35°C

Design Parameters

The design and manufacturing of the package conforms to standards and parameters below:

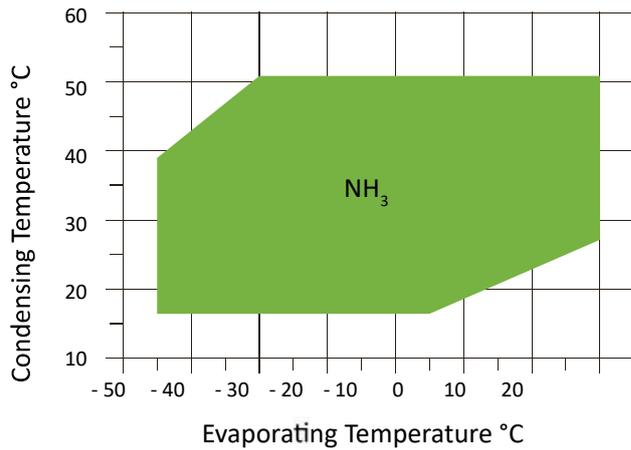
97/23/EC Pressure Equipment Directive

EN 378

CE-certification

ASME as option

Open Type Single Stage Screw Compressor Application Range

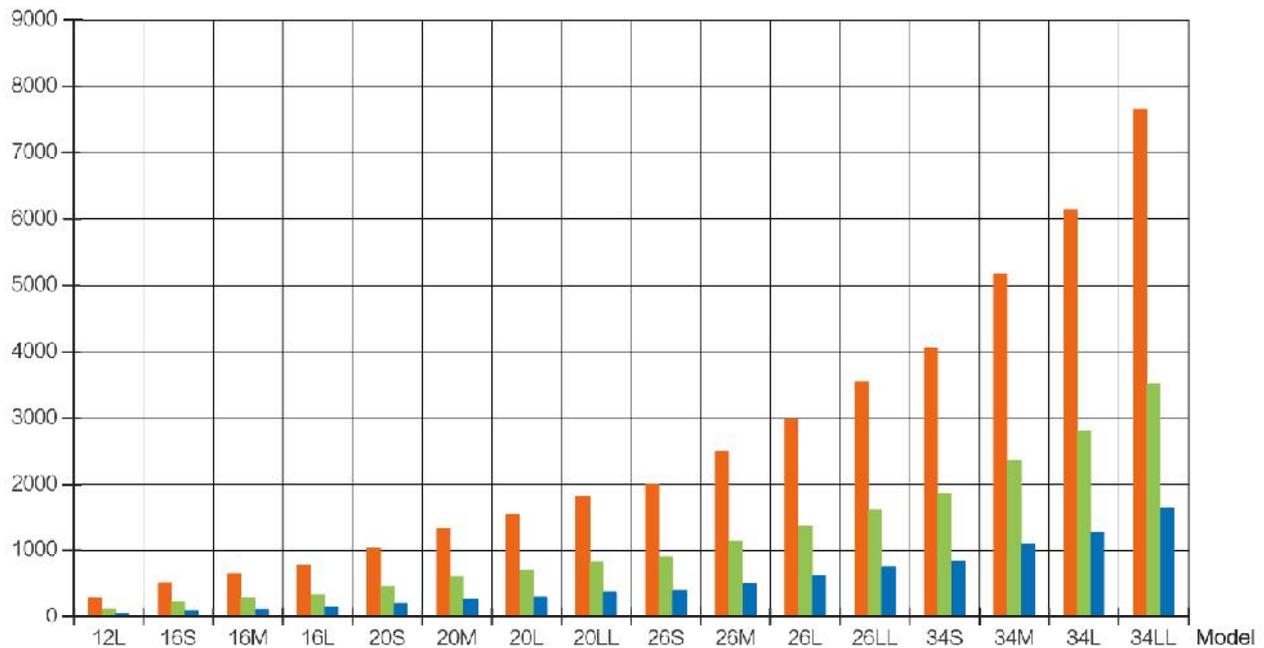


Open type single stage screw compressor application range

Capacity

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 .

Applications

- Food industry
- Aquaculture
- Dairy industry
- Beverage industry and breweries
- Meat processing
- Cold storage and cold chain logistics
- Chemical/pharmaceutical processes
- Ice generating applications for process and leisure
- Agricultural processes like controlled atmosphere for ripening or maturing
- High temperature heat pump

12 series single stage compressor package parameters

Item		Unit	12 Series			
Compressor	Model			SRM- 12L		
	Displacement		m ³ /h	265		
	Mechanical Capacity Control			Stepless regulation:10 ~ 100 %		
Refrigerant	Type			R717		
Refrigeration Capacity	H/T Application		kW	294		
	M/T Application		kW	132		
	L/T Application (ECO)		kW	58		
Motor	H/T Application		kW	55		
	M/T Application		kW	55		
	L/T Application (ECO)		kW	55		
	Power supply			3P, 380V, 50Hz		
	R.P.M		r/min	2960		
	Rotational direction			Face with motor shaft side: anti- clockwise		
Refrigeration Oil	Grade			refer to SRMTec recommendations		
	Standard					
	Charge volume		kg	120		
External Connecting Pipe Size	Suction pipe		mm	DN80		
	Discharge pipe	High/medium temperature	mm	DN50		
		Low temperature	mm	DN50		
	Economizer Liquid In/and Pipe		mm	DN32		
	Safety Valve Pipe		mm	DN32		
	Cooling Method	Working Medium Cooled	Liquid Inlet Tube	mm	DN32	
			Gas Outlet Pipe	mm	DN50	
			Working Medium Consumption Amount	kg/h	148	
		Water Cooled	Water Inlet Pipe	mm	DN40	
			Water Outlet Pipe	mm	DN40	
			Cooling Water Amount	m ³ /h	10	
pressure drop			bar	≤0.88		
Overall Dimension	High Temperature	L×W×H	mm	2800×1300×1800		
	Low Temperature	L×W×H	mm	2800×1300×1800		
Package Weight	Net Weight		kg	2500		
	Operation Weight		kg	2800		

- Note: 1. Motor power equipped for package shall be selected according to shaft power under actual running conditions, shaft power parameters shall be obtained according to compressor selection software.
2. The design is subject to change, therefore the drawings are to be confirmed upon order.
3. Oil cooling method can be either water cooled or by refrigerant cooling as thermo-siphon; SRMTec recommends water/glycol cooling.
4. ECO means the package with economizer
5. Capacity calculation: H/T +5/+35°C; M/T -15/+35°C; L/T -35/+35°C, suction superheat 5K, 2960rpm/50Hz

16 series single stage compressor package parameters

Item		Unit	16 Series				
Compressor	Model		SRM- 16S	SRM- 16M	SRM- 16L		
	Displacement	m ³ /h	435	544	652		
	Mechanical Capacity Control		Step- less capacity control: 10~100%				
Refrigerant	Type		R717	R717	R717		
Refrigeration Capacity	H/T Application	kW	513	642	769		
	M/T Application	kW	230	288	345		
	L/T Application (ECO)	kW	103	130	155		
Motor	H/T Application	kW	90	110	132		
	M/T Application	kW	90	110	132		
	L/T Application (ECO)	kW	75	75	110		
	Power supply		3P, 380V, 50Hz				
	R.P.M	r/min	2960				
	Rotational direction		Face with motor shaft side: anti- clockwise				
Oil Pump	Model		GG4195	GG4195	GG4195		
	Motor power	kW	0.75	0.75	0.75		
Refrigeration Oil	Grade		refer to recommendations of SRMTec				
	Standard						
	Charge volume	kg	200	200	200		
External Connecting Pipe Size	Suction pipe	mm	DN125	DN125	DN125		
	Discharge pipe	High/medium temperature	mm	DN65	DN80	DN80	
		Low temperature	mm	DN50	DN65	DN65	
	Economizer Liquid In/and Pipe	mm	DN50	DN50	DN50		
	Safety Valve Pipe	mm	DN32	DN32	DN32		
	Cooling Method	Working Medium Cooled	Liquid Inlet Tube	mm	DN40	DN40	DN40
			Gas Outlet Pipe	mm	DN65	DN65	DN65
			Working Medium Consumption Amount	kg/h	246	246	246
		Water Cooled	Water Inlet Pipe	mm	DN50	DN50	DN50
			Water Outlet Pipe	mm	DN50	DN50	DN50
			Cooling Water Amount	m ³ /h	15	15	15
pressure drop	bar	≤0.88	≤0.88	≤0.88			
Overall Dimension	High Temperature	L×W×H	mm	3450×1500×2300	3450×1500×2300	3450×1500×2300	
	Low Temperature	L×W×H	mm	3450×1500×2200	3450×1500×2200	3450×1500×2200	
Package Weight	Net Weight	kg	3000	3300	3600		
	Operation Weight	kg	3800	4100	4400		

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4. ECO means the package with economizer
5. Capacity calculation: H/T +5/+35°C; M/T -15/+35°C; L/T -35/+35°C, suction superheat 5K, 2960rpm/50Hz

20 series single stage compressor package parameters

Item		Unit	20 Series					
Compressor	Model		SRM- 20S	SRM- 20M	SRM- 20L	SRM- 20LL		
	Displacement	m ³ /h	850	1100	1270	1496		
	Mechanical Capacity Control		Step- less capacity control: 10~100%					
Refrigerant	Type		R717	R717	R717	R717		
Refrigeration Capacity	H/T Application	kW	1015	1313	1516	1786		
	M/T Application	kW	459	598	691	825		
	L/T Application (ECO)	kW	208	269	310	380		
Motor	H/T Application	kW	180	220	250	280		
	M/T Application	kW	180	220	250	260		
	L/T Application (ECO)	kW	160	200	220	220		
	Power supply		3P, 380V, 50Hz					
	R.P.M	r/min	2960					
	Rotational direction		Face with motor shaft side: anti- clockwise					
Oil Pump	Model		GG4195	GG4195	GG4195	GG4195		
	Motor power	kW	0.75	0.75	0.75	0.75		
Refrigeration Oil	Grade		refer to SRMTec recommendation					
	Standard							
	Charge volume	kg	360	360	360	360		
External Connecting Pipe Size	Suction pipe		mm	DN150	DN150	DN150	DN150	
	Discharge pipe	High/medium temperature	mm	DN100	DN100	DN100	DN125	
		Low temperature	mm	DN65	DN80	DN80	DN80	
	Economizer Liquid In/and Pipe		mm	DN50	DN50	DN50	DN50	
	Safety Valve Pipe		mm	DN32	DN32	DN32	DN32	
	Cooling Method	Working Medium Cooled	Liquid Inlet Tube	mm	DN50	DN50	DN50	DN50
			Gas Outlet Pipe	mm	DN80	DN80	DN80	DN80
			Working Medium Consumption Amount	kg/h	506	506	506	506
	Water Cooled	Water Inlet Pipe	mm	DN80	DN80	DN80	DN80	
		Water Outlet Pipe	mm	DN80	DN80	DN80	DN80	
Cooling Water Amount		m ³ /h	32	32	32	32		
pressure drop		bar	≤0.88	≤0.88	≤0.88	≤0.88		
Overall Dimension	High Temperature	L×W×H	mm	3750×1700×2600	3750×1700×2600	3750×1700×2600	3750×1700×2600	
	Low Temperature	L×W×H	mm	3650×1650×2520	3650×1650×2520	3650×1650×2520	3650×1650×2520	
Package Weight	Net Weight	kg	4200	4500	4800	5200		
	Operation Weight	kg	5200	5500	5800	6200		

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4. ECO means the package with economizer
5. Capacity calculation: H/T +5/+35°C; M/T -15/+35°C; L/T -35/+35°C, suction superheat 5K, 2960rpm/50Hz

26 series single stage compressor package parameters

Item		Unit	26 Series					
Compressor	Model		SRM- 26S	SRM- 26M	SRM- 26L	SRM- 26LL		
	Displacement	m ³ /h	1659	2075	2478	2940		
	Mechanical Capacity Control		Step- less capacity control: 10~100%					
Refrigerant	Type		R717	R717	R717	R717		
Refrigeration Capacity	H/T Application	kW	1981	2477	2958	3510		
	M/T Application	kW	898	1121	1343	1642		
	L/T Application	kW	411	517	627	769		
Motor	H/T Application	kW	315	400	500	560		
	M/T Application	kW	315	355	450	500		
	L/T Application (ECO)	kW	250	315	355	450		
	Power supply		3P, 380V, 50Hz					
	R.P.M	r/min	2960					
	Rotational direction		Face with motor shaft side: anti- clockwise					
Oil Pump	Model		HJ4195	HJ4195	HJ4195	HJ4195		
	Motor power	kW	1.5	1.5	1.5	1.5		
Refrigeration Oil	Grade		refer to SRMTec recommendation					
	Standard							
	Charge volume	kg	540	540	540	540		
External Connecting Pipe Size	Suction pipe		mm	DN250	DN250	DN250	DN250	
	Discharge pipe	High/medium temperature	mm	DN125	DN150	DN150	DN150	
		Low temperature	mm	DN80	DN100	DN100	DN125	
	Economizer Liquid In/and Pipe		mm	DN50	DN50	DN50	DN50	
	Safety Valve Pipe		mm	DN32	DN32	DN32	DN32	
	Cooling Method	Working Medium Cooled	Liquid Inlet Tube	mm	DN65	DN65	DN65	DN65
			Gas Outlet Pipe	mm	DN100	DN100	DN100	DN100
			Working Medium Consumption Amount	kg/h	903	903	903	903
		Water Cooled	Water Inlet Pipe	mm	DN100	DN100	DN100	DN100
			Water Outlet Pipe	mm	DN100	DN100	DN100	DN100
			Cooling Water Amount	m ³ /h	50	50	50	50
		pressure drop	bar	≤0.88	≤0.88	≤0.88	≤0.88	
Overall Dimension	High Temperature	L×W×H	mm	4900×2150×3550	4900×2150×3550	4900×2150×3550	4900×2150×3550	
	Low Temperature	L×W×H	mm	4900×2150×3550	4900×2150×3550	4900×2150×3550	4900×2150×3550	
Package Weight	Net Weight	kg	9000	9500	10000	10500		
	Operation Weight	kg	10000	10500	11000	11500		

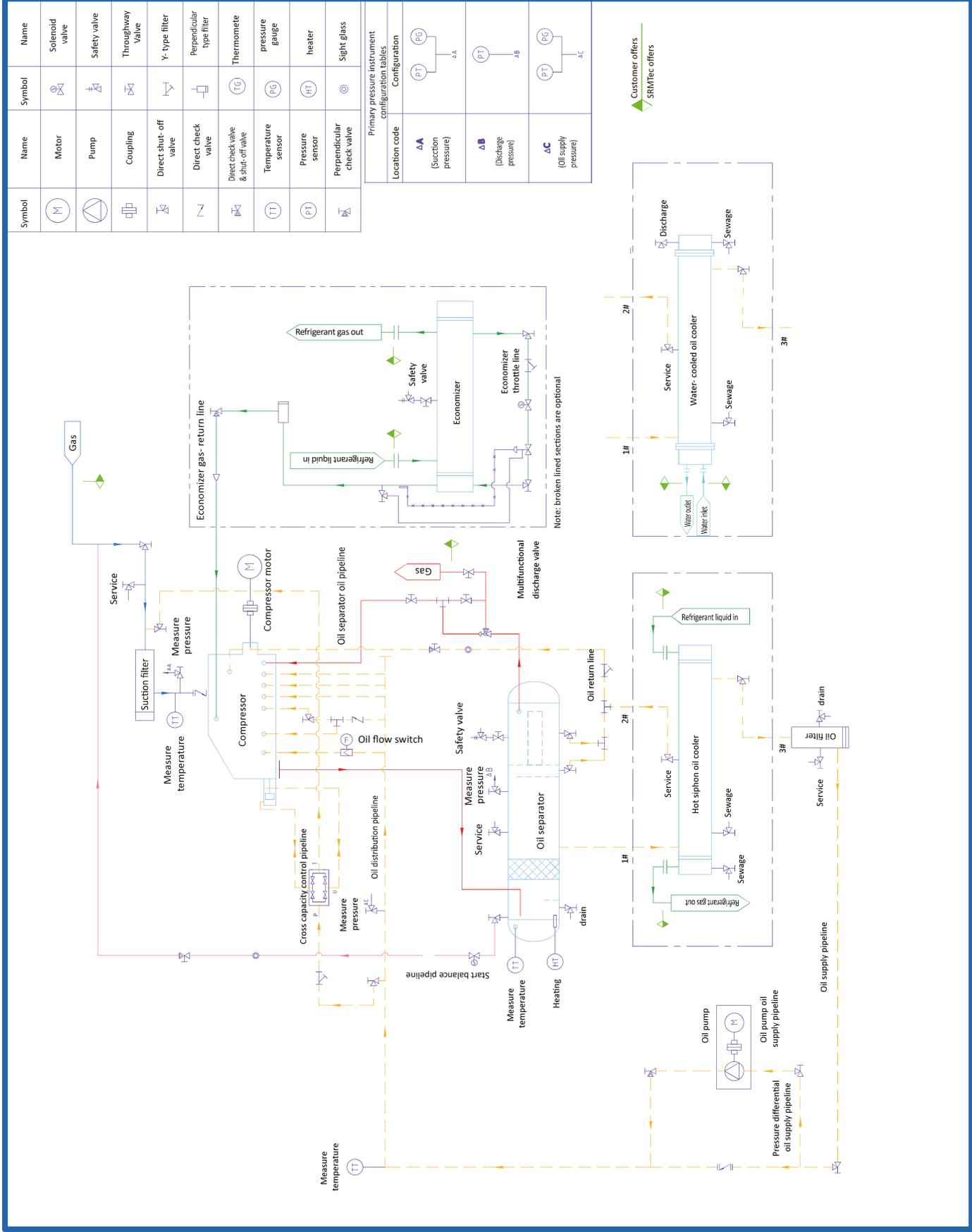
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4. ECO means the package with economizer
5. Capacity calculation: H/T +5/+35°C; M/T -15/+35°C; L/T -35/+35°C, suction superheat 5K, 2960rpm/50Hz

34 series single stage compressor package parameters

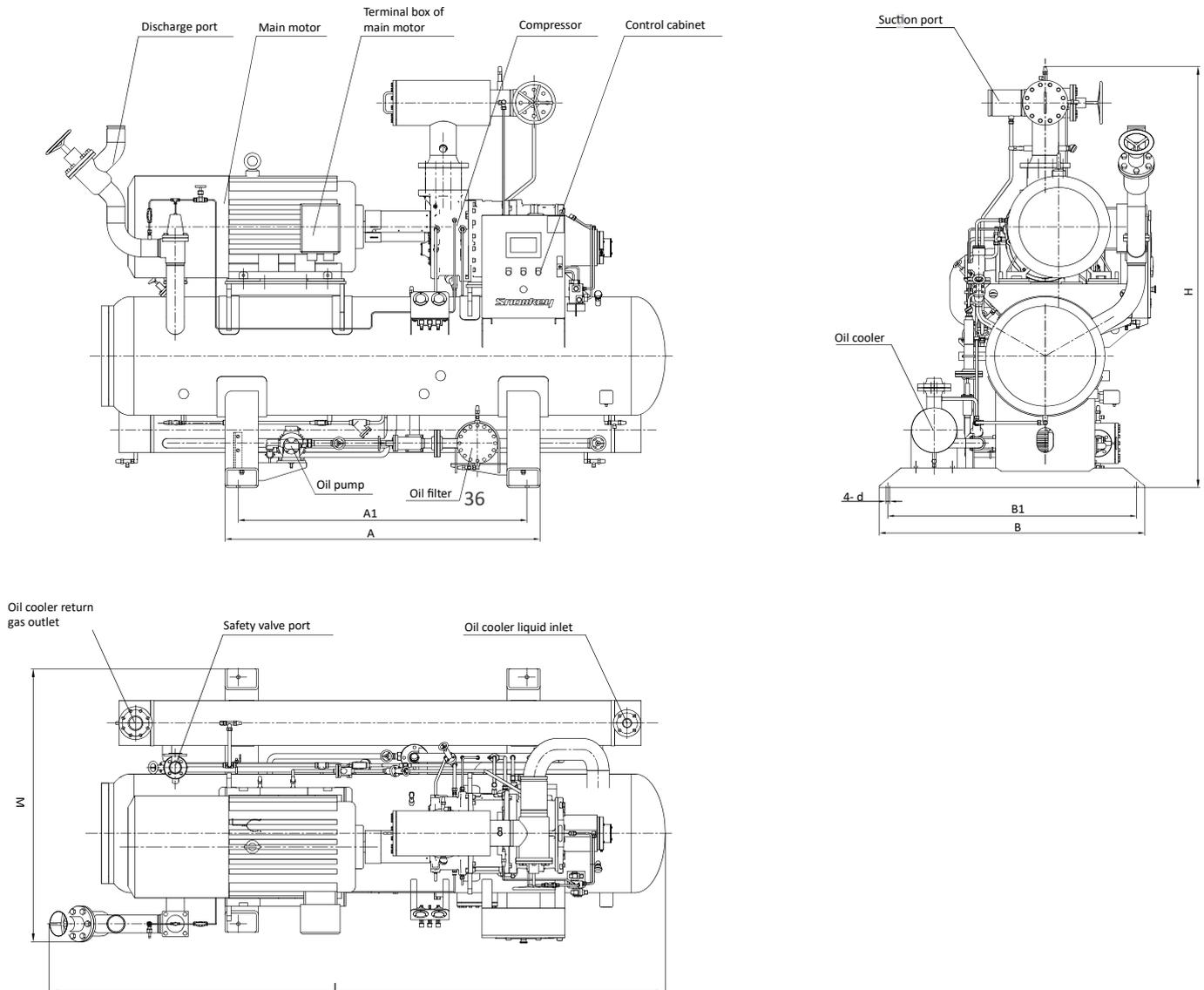
Item		Unit	34 Series					
Compressor	Model		SRM- 34S	SRM- 34M	SRM- 34L	SRM- 34LL		
	Displacement		m ³ /h	3360	4280	5090	6350	
	Mechanical Capacity Control			Step- less capacity control: 10~100%				
Refrigerant	Type		R717	R717	R717	R717		
Refrigeration Capacity	H/T Application		kW	4011	5110	6076	7581	
	M/T Application		kW	1836	2336	2786	3434	
	L/T Application		kW	842	1092	1276	1609	
Motor	H/T Application		kW	630	800	1000	1250	
	M/T Application		kW	560	710	900	1120	
	L/T Application (ECO)		kW	500	630	800	1000	
	Power supply			3), 380V, 50 Hz or High voltage system				
	R.P.M		r/min	2960				
	Rotational direction			Face with motor shaft side: anti- clockwise				
Oil Pump	Model		HJ419S	HJ419M	HJ419L	HJ419LL		
	Motor power		kW	1.5	1.5	1.5	1.5	
Refrigeration Oil	Grade		refer to SRMTec recommendation					
	Standard							
	Charge volume		kg	1100	1100	1100	1100	
External Connecting Pipe Size	Suction pipe		mm	DN350	DN350	DN350	DN350	
	Discharge pipe	High/medium temperature	mm	DN150	DN200	DN200	DN200	
		Low temperature	mm	DN125	DN125	DN150	DN150	
	Economizer Liquid In/and Pipe		mm	DN80	DN100	DN100	DN100	
	Safety Valve Pipe		mm	2×DN32	2×DN32	2×DN32	2×DN32	
	Cooling Method	Working Medium Cooled	Liquid Inlet Tube	mm	DN80	DN80	DN80	DN80
			Gas Outlet Pipe	mm	DN125	DN125	DN125	DN125
			Working Medium Consumption Amount	kg/h	2188	2188	2188	2188
		Water Cooled	Water Inlet Pipe	mm	DN125	DN125	DN125	DN125
			Water Outlet Pipe	mm	DN125	DN125	DN125	DN125
			Cooling Water Amount	m ³ /h	120	120	120	120
pressure drop			bar	≤0.88	≤0.88	≤0.88	≤0.88	
Overall Dimension	High Temperature	L×W×H	mm	5600×2350×4200	5600×2350×4200	5600×2350×4200	5600×2350×4200	
	Low Temperature	L×W×H	mm	5600×2350×4000	5600×2350×4000	5600×2350×4000	5600×2350×4000	
Package Weight	Net Weight		kg	14000	14500	15000	15500	
	Operation Weight		kg	15500	16000	16500	17000	

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4. ECO means the package with economizer
5. Capacity calculation: H/T +5/+35°C; M/T -15/+35°C; L/T -35/+35°C, suction superheat 5K, 2960rpm/50Hz

Single stage compressor package PID



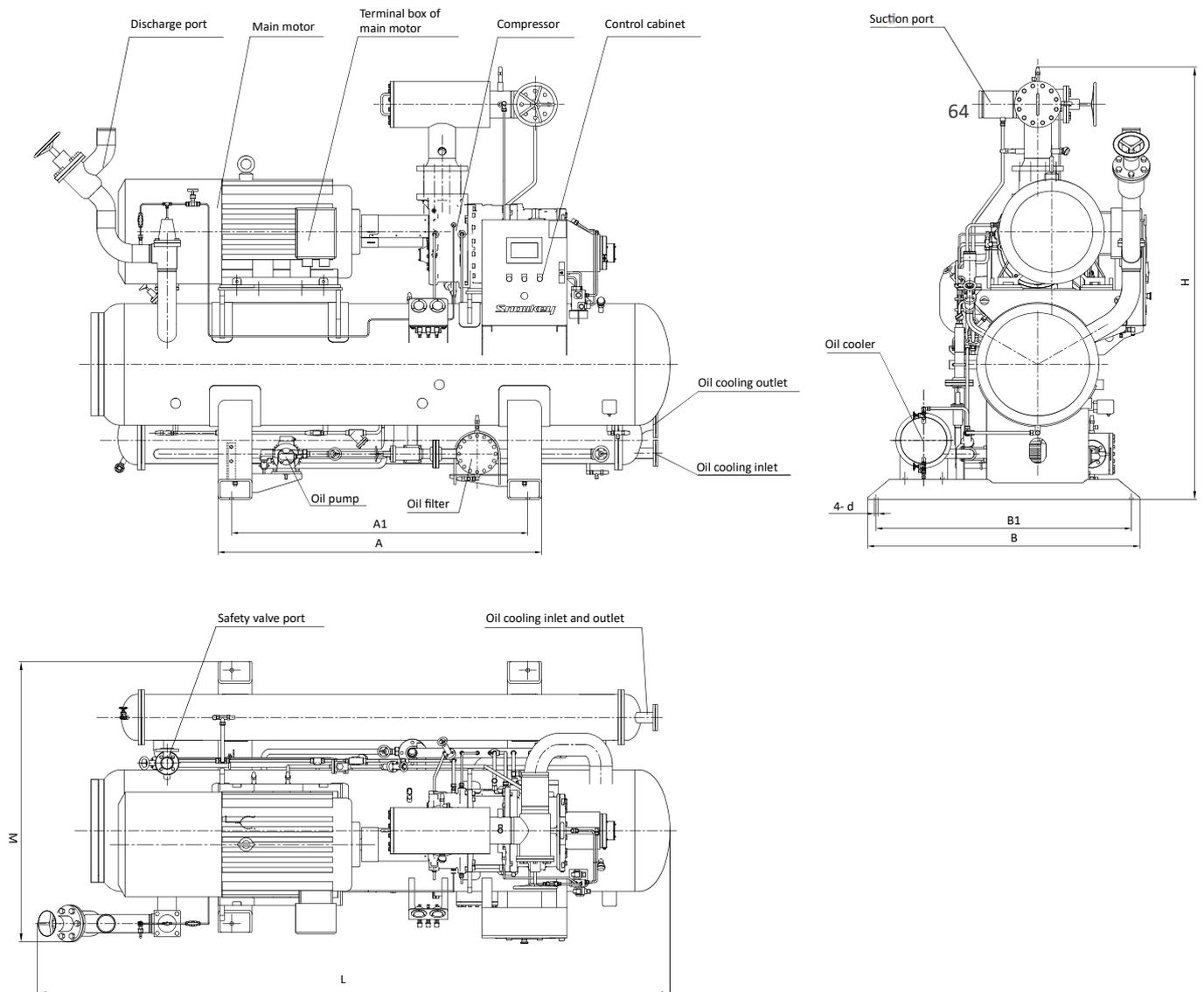
Single Stage Compressor Overall Dimension (without economizer, thermo-siphon oil cooler)



Dimension		Model	12 Series	16 Series	20 Series	26 Series
Outer Dimension	L		2800	3450	3750	4900
	W		1300	1500	1900	2150
	H		1800	2300	2600	3550
	A		1650	1800	1900	2200
	A1		1490	1640	1740	2040
	B		1300	1400	1600	2000
	B1		1200	1300	1500	1900
	D		∅ 22	∅ 22	∅ 22	∅ 22

Note: This outline drawing is only for reference, actual dimensions might vary according to actual design.

Single Stage Compressor Overall Dimension (without economizer, water-cooled oil cooler)

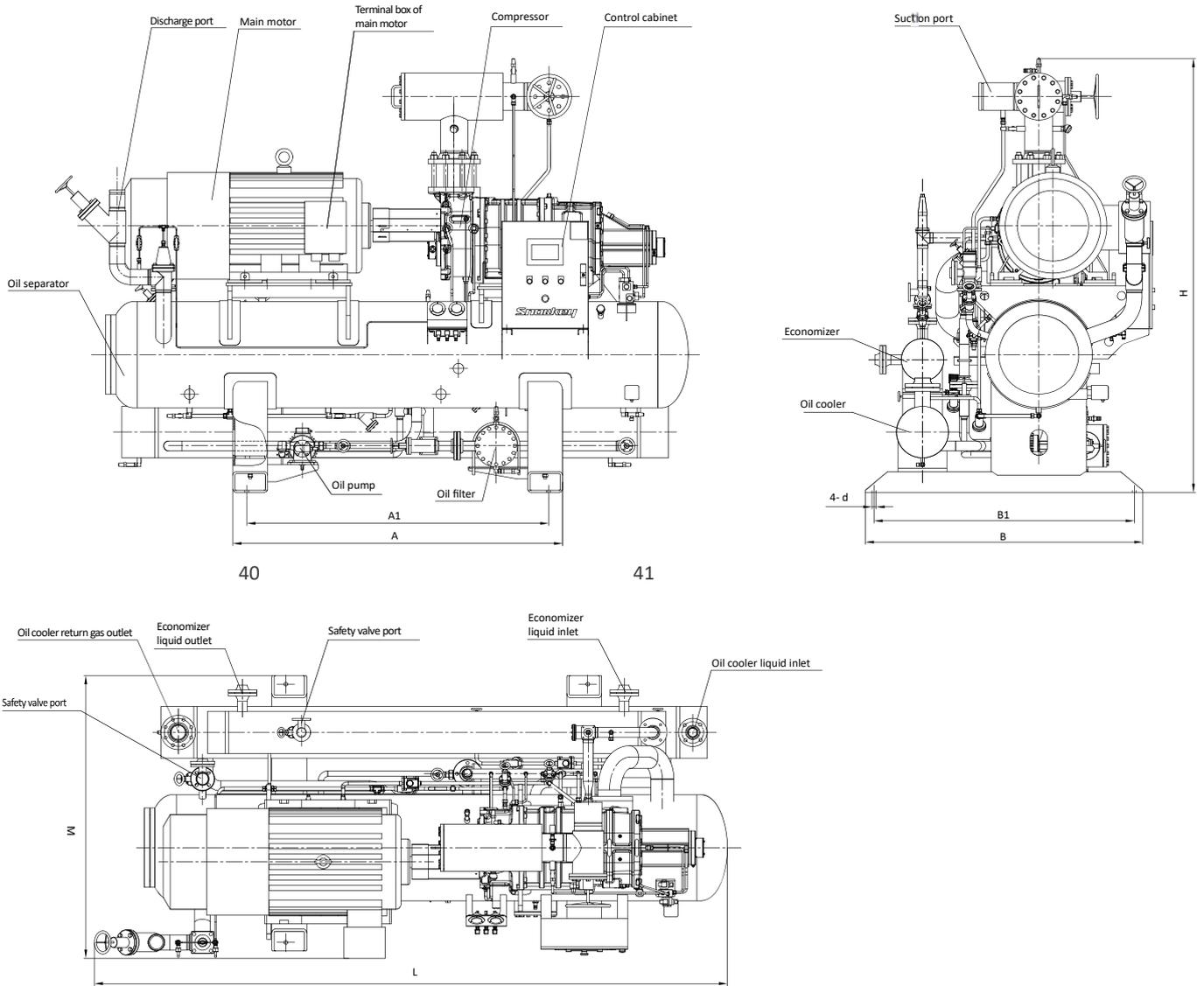


58

Dimension		Model	12 Series	16 Series	20 Series	26 Series
67	Outer Dimension	L	2800	3450	3750	4900
		W	1300	1500	1700	2150
		H	1800	2300	2600	3550
		A	1650	1800	1900	2200
		A1	1490	1640	1740	2040
		B	1300	1400	1600	2000
		B1	1200	1300	1500	1900
	D	ϕ 22	ϕ 22	ϕ 22	ϕ 22	

Note: This outline drawing is only for reference, actual dimensions might vary according to actual design.

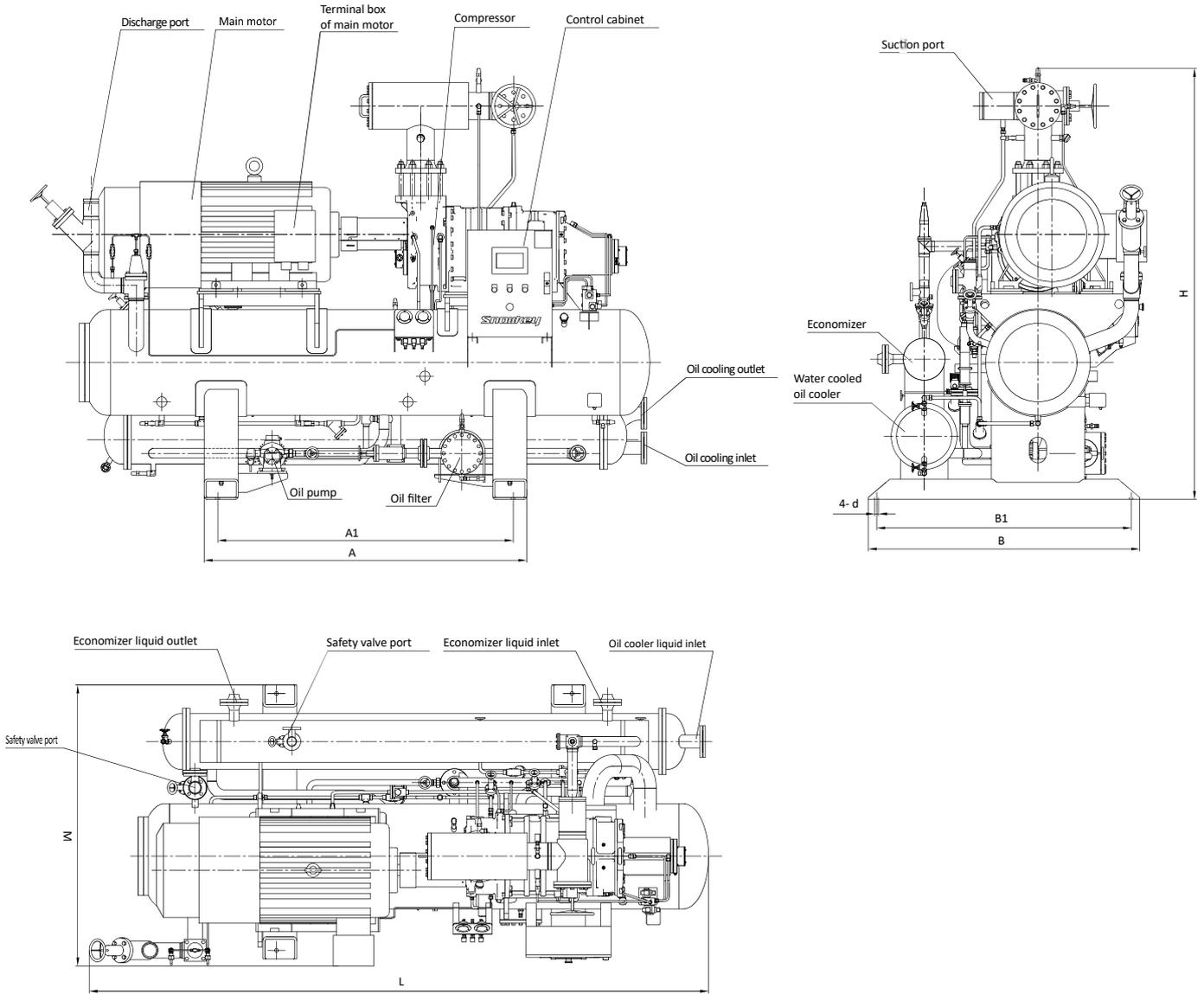
Single stage compressor overall dimension (with economizer, thermo-siphon oil cooler)



Dimension		Model	12 Series	16 Series	20 Series	26 Series
Outer Dimension	L		2800	3450	3750	4900
	W		1300	1500	1900	2150
	H		1800	2300	2600	3550
	A		1650	1800	1900	2200
	A1		1490	1640	1740	2040
	B		1300	1400	1600	2000
	B1		1200	1300	1500	1900
	D		∅ 22	∅ 22	∅ 22	∅ 22

Note: This outline drawing is only for reference, actual dimensions might vary according to actual design.

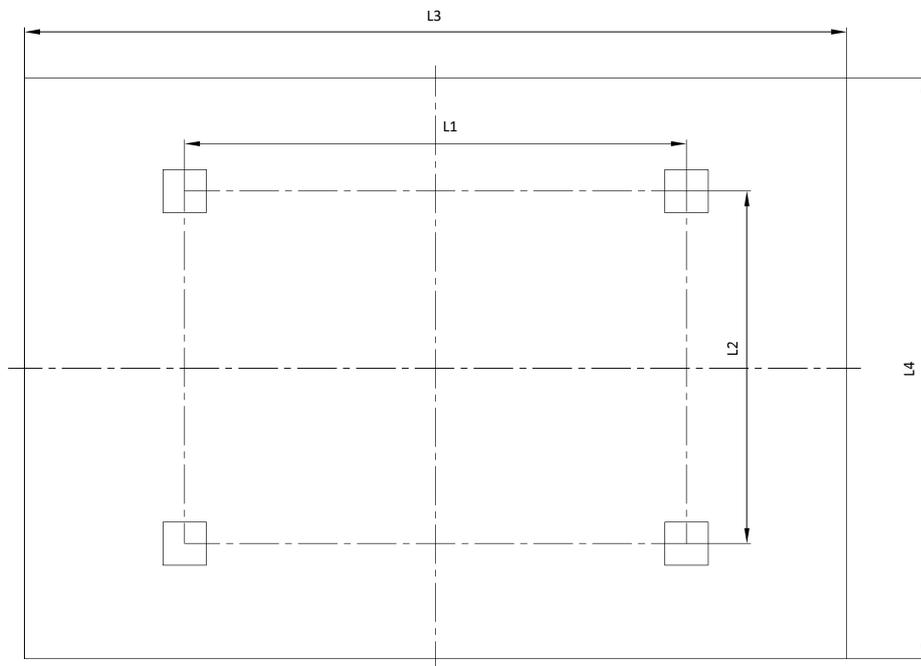
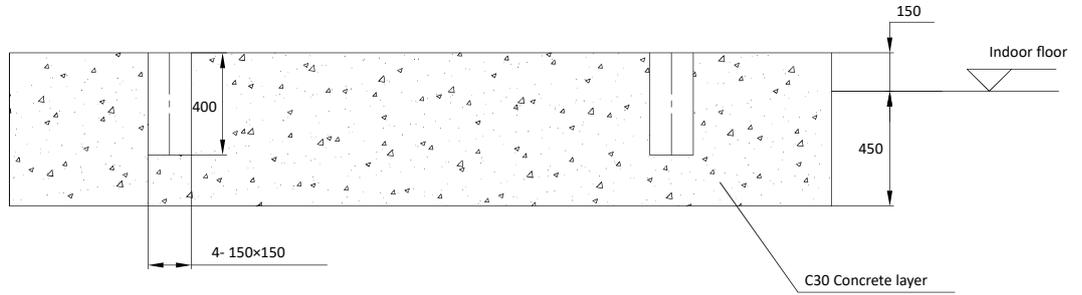
Single stage compressor overall dimension (with economizer, water cooled oil cooler)



Dimension		Model	12 Series	16 Series	20 Series	26 Series
outer dimension	L		2800	3450	3750	4900
	W		1300	1500	1700	2150
	H		1800	2300	2600	3550
	A		1650	1800	1900	2200
	A1		1490	1640	1740	2040
	B		1300	1400	1600	2000
	B1		1200	1300	1500	1900
	D		∅ 22	∅ 22	∅ 22	∅ 22

Note: This outline drawing is only for reference, actual dimensions might vary according to actual design.

Compressor Package Foundation



Package model	L1(mm)	L2(mm)	L3(mm)	L4(mm)
12 Series	1490	1200	1940	1650
16 Series	1640	1300	2100	1750
20 Series	1740	1500	2200	1950
26 Series	2040	1900	2500	2300

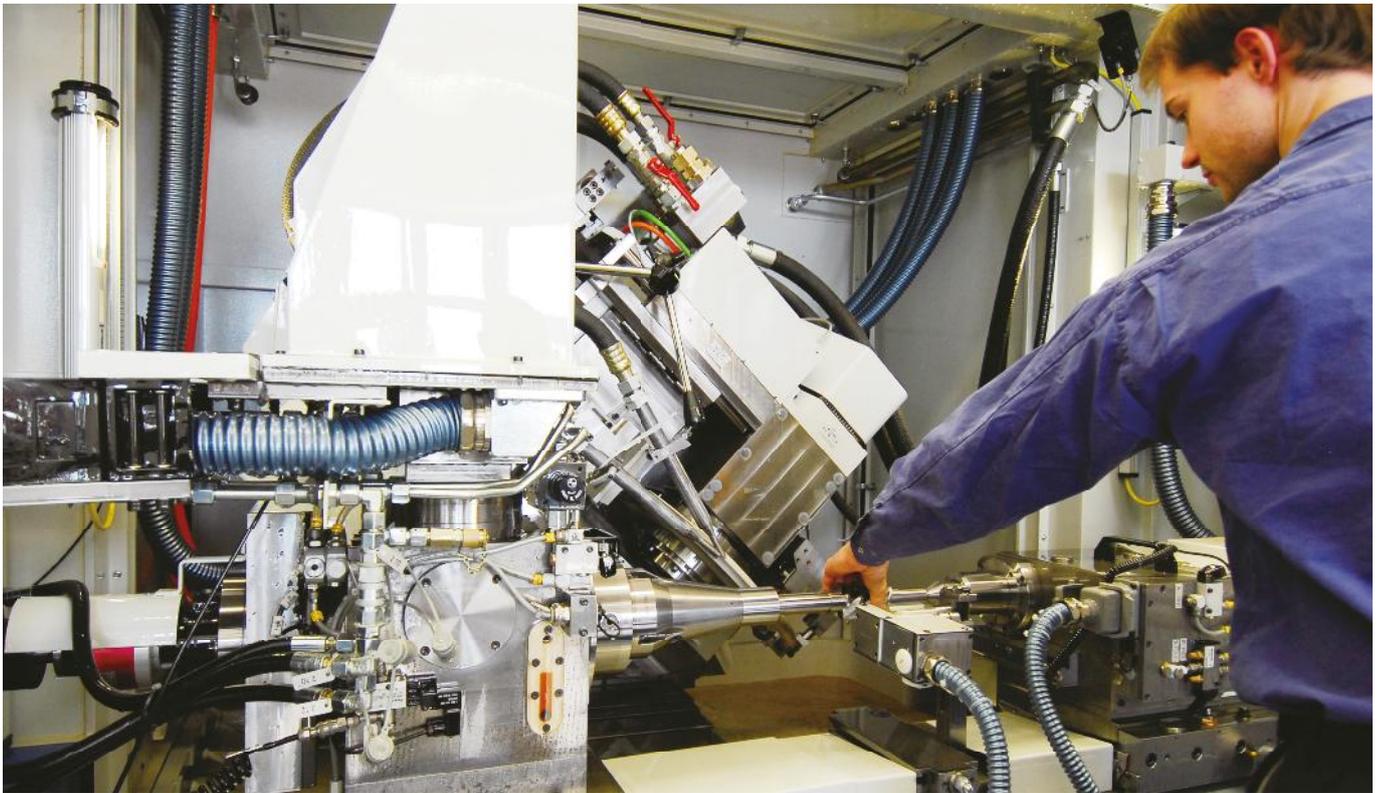


Compressor R&D technology

SRMTEC high- efficient and advanced screw compressors are developed based on SRM latest rotor “i” profile. The successful application of this “i” profile is the outcome of several generations of engineers work. Since the first refrigeration screw compressor was designed and licensed, hundreds of new generations of improvements were put into the market

High speed screw compressor is the result of integration of contemporary technologies; it covers the mechanical design and manufacturing, power electronics, materials, automatic control, fluid mechanics, solid mechanics, chemistry and other multi-disciplinary efforts.

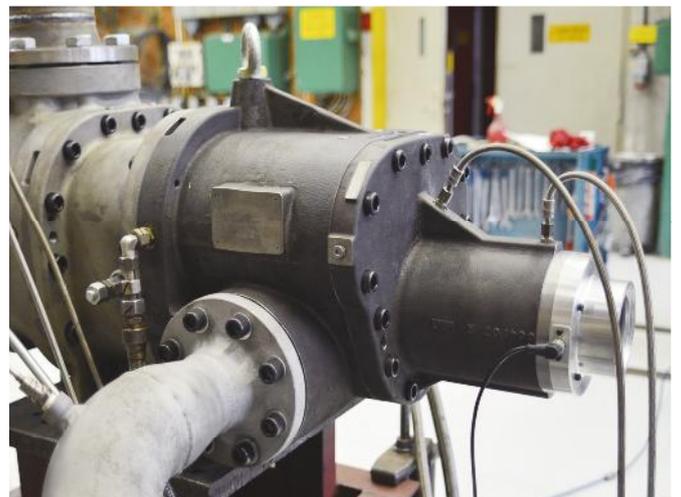




Compressor manufacture technology

The nodular iron casting housing has high breakdown pressure and toughness, and is applicable to a wide temperature range. Forged high-quality screw rotor material is selected for high speed and low wear.

The world's most advanced screw compressor machining facility, thorough manufacturing process and strict manufacturing management system as well as the high SRM quality standard together with more than 100 years of engineering experience are combined to produce these reliable and innovative compressors.



Full performance test technology

SRM Group's full performance test centers in locations all over the world feature 4 independent laboratories are used to test compressors and packages with capacities up to 2000 kW.

Tests are carried out in accordance with international standards. All parameters like capacity, efficiency, sound emission, vibration and pulsation are carried out under real-life conditions.

Continuous improvement and innovation is in the genes of SRM since 1908.



7°C AC cooling water

The installation of central air-conditioning systems, comfort air conditioning applications in shopping malls, railway stations, airports, ships, hotels, office buildings, public places, which is not only conducive to people's physical and mental health, but it can also improve the efficiency of production and work.



0.5°C concrete cooling

When pouring large volumes of concrete it is necessary to absorb heat of the chemical reaction for smooth curing to prevent cracks and improve the strength of the concrete.



- 10°C ice storage project

In making full use of hydro-power, gas and other resources during low demand periods saves operation cost. The application of dynamic or static ice storage is a clever way to operate facilities continuously and to store energy temporarily.



- 15°C Ice and ice sculptures

Ice produced as flake, plate, block or slurry ice is widely used in many processes like fish and seafood production, chemical and pharmaceutical industry. But it also brings joy to our life in leisure parks and by sculptures.



- 25°C Pharmaceutical and chemical industry

Pharmaceutical and chemical processes depend on precise cooling for high quality products.



- 35°C Low temperature cold storage

Food industry is one of the most important applications for refrigeration technology. Refrigeration plays a decisive role in food processing, cold storage, preservation. The invention and application of screw compressor, not only promoted the development of food industry, but also promoted the development and utilization of food resources.