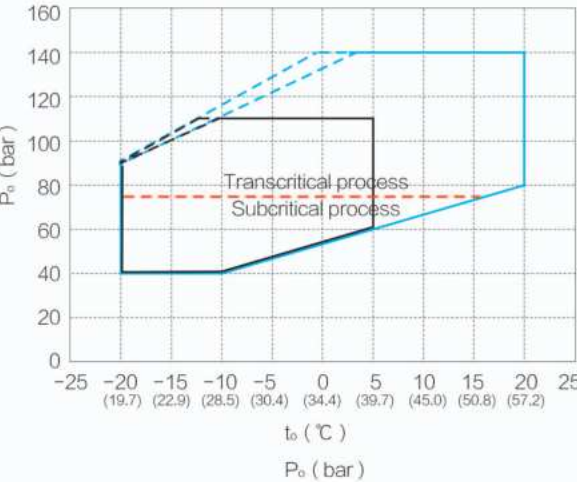


## Application

Compressors can be widely used in AC and heat pump systems.



## Application scope



## Table of Technical Parameters

Project	Units	SPT41 Series								
Model		SPT41-4L	SPT41-4H	SPT41-5L	SPT41-5H	SPT41-6L	SPT41-6H	SPT41-8L	SPT41-8H	SPT41-9L
Motor size		L	H	L	H	L	H	L	H	L
Disp.	50Hz	4.4	4.4	5.4	5.4	6.6	6.6	8.0	8.0	9.6
Cyll.		4	4	4	4	4	4	4	4	4
Pipe connections	Suction valve	mm	22	22	22	22	22	22	22	22
		inch	7/8	7/8	7/8	7/8	7/8	7/8	7/8	7/8
	Discharge valve	mm	18	18	18	18	18	18	18	18
		inch	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
electrical data	Motor conn.	volt	"Δ / Y Δ: 220-240V -3 -50Hz, 265-290V -3 -60Hz Y: 380-420V -3 -50Hz, 440-480V -3 -60Hz"							
	Max working current	A	18,3 / 10,5	25,1 / 14,5	20,9 / 12,0	29,9 / 17,2	26,3 / 15,1	38,6 / 22,2	31,1 / 17,9	45,8 / 26,3
	Max power consump.	KW	6,1	8,4	7,0	10,0	8,8	12,9	10,4	15,3
	Starting current	A	96 / 55	157 / 90	124 / 71	157 / 90	157 / 90	198 / 114	198 / 114	229 / 132
Weight	Kg	98	102	100	102	103	109	110	114	112
Oil charge	Ltr.	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1

Project	Units	SPT42 Series											
Model		SPT42-9L	SPT42-9H	SPT42-11L	SPT42-11H	SPT42-14L	SPT42-14H	SPT42-18L	SPT42-18H	SPT42-22L	SPT42-22H	SPT42-26L	SPT42-26H
Motor size		L	H	L	H	L	H	L	H	L	H	L	H
Disp.	50Hz	9.2	9.2	11.9	11.9	14.4	14.4	17.8	17.8	21.9	21.9	25.5	25.5
Cyll.		4	4	4	4	4	4	4	4	4	4	4	4
Pipe connections	Suction valve	mm	28	28	28	28	28	28	28	28	28	28	28
		inch	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8
	Discharge valve	mm	18	18	18	18	18	18	18	18	18	18	18
		inch	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
electrical data	Motor conn.	volt	"PW (Y/YY) 380-420V -3 - 50Hz 440-480V -3 - 60Hz"										
	Max working current	A	212	30.5	26.8	39.6	34.1	47.3	42.3	59.0	54.0	71.4	63.0
	Max power consump.	KW	123	17.7	15.6	23.0	19.8	27.5	24.6	34.3	31.4	41.5	36.6
	Starting current	A	77 / 127	89 / 147	89 / 147	121 / 198	121 / 198	162 / 265	162 / 265	185 / 303	185 / 303	215 / 352	215 / 352
Weight	Kg	154	158	158	165	165	170	170	182	182	188	188	195
Oil charge	Ltr.	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4

RefComp

## SPT Series CO<sub>2</sub> Piston Compressor

RefComp Italy

The World Famous Brand for Screw Compressor and Piston Compressor

Focusing on commercial refrigeration compressor

25 years of experience in semi-hermetic compressor manufacture

The classical tradition, manufacturing Art is born, and innovation is endless.



RefComp



## RefComp SPT Series piston compressor

RefComp SPS series piston compressor, suitable for CO<sub>2</sub> sub-critical cycle has 19 models in the series with displacement range 6–40 m<sup>3</sup>/h and power range 0.5–30Hp. The system and parts are designed for CO<sub>2</sub> system to ensure highly efficient and stable operation. SPS piston compressors are highly efficient, durable and compact.



### Machine body

- High pressure can go up to 160bar, advanced design concept, high quality casted body which meets the stress requirement of machine body;
- Optimized airflow runner design, low resistance.



### Motor

- Specially designed highly efficient motor provides more horsepower. It also meets various electrical supply requirements in different regions.



### Motor protection

- INT69 protection module, motor over temperature and phase-loss protection;
- 6 PTC thermistors connected in series prevent motor from overheating. System operating info tracking, real-time feedback of motor and system operational status.



### Valve plate

- Reliable valve plate design uses shock-resistant spring valve pin, which is more responsive, reliable and has long service life.



### Safety valve

- External safety valve to ensure the internal pressure within safe value;
- High standard design, tightly sealed, reliable, precise opening, timely full opening, stable release, timely re-seating, safe and reliable.



### Crankshaft, connecting rod and piston

- Crankshaft design is compact with balancing block; adopt high standard ductile iron castings, which have been through heat treatment and has stress, wear-resistance characteristics that meet the requirements of stressful operation;
- Connecting rods and pistons are built with wear-resistant and high strength aluminum. They can withstand the high impact during operation and, meanwhile, the lightened structure makes the compressor operation smoother.



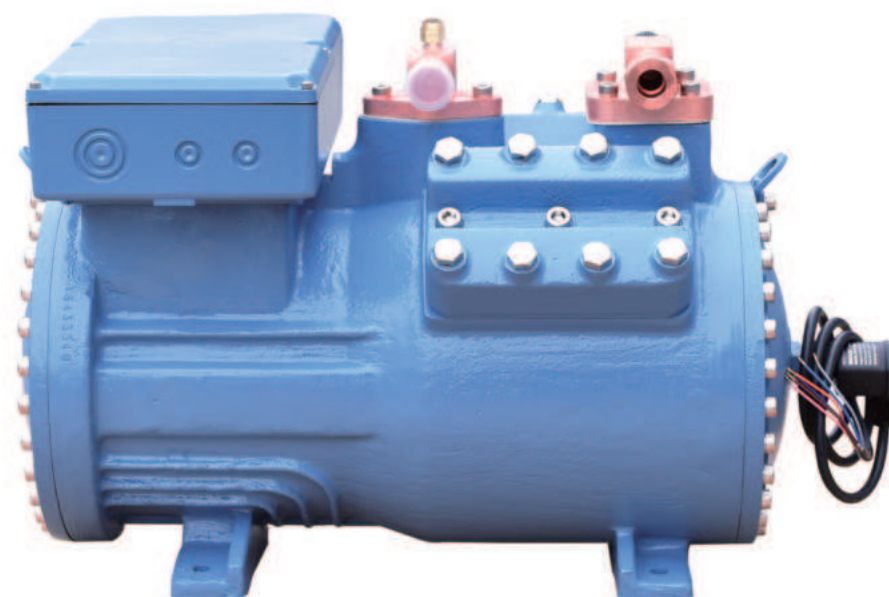
### Suction Filter

- Built-in high density suction filter to remove the impurities in refrigerant and protect motor.



### Bearing Bush

- Combined roller bearings with thrust bush to support crankshaft's rotating axially and radially. Tight tolerance and composite materials in use make the crankshaft rotate highly efficiently and stably.



1. Using environmental friendly refrigerant CO<sub>2</sub> gives advantage in the areas that require better safety and environment protection.
2. Compact structure and high efficiency, SPT series compressors have the same capacity as standard compressor but require less space.