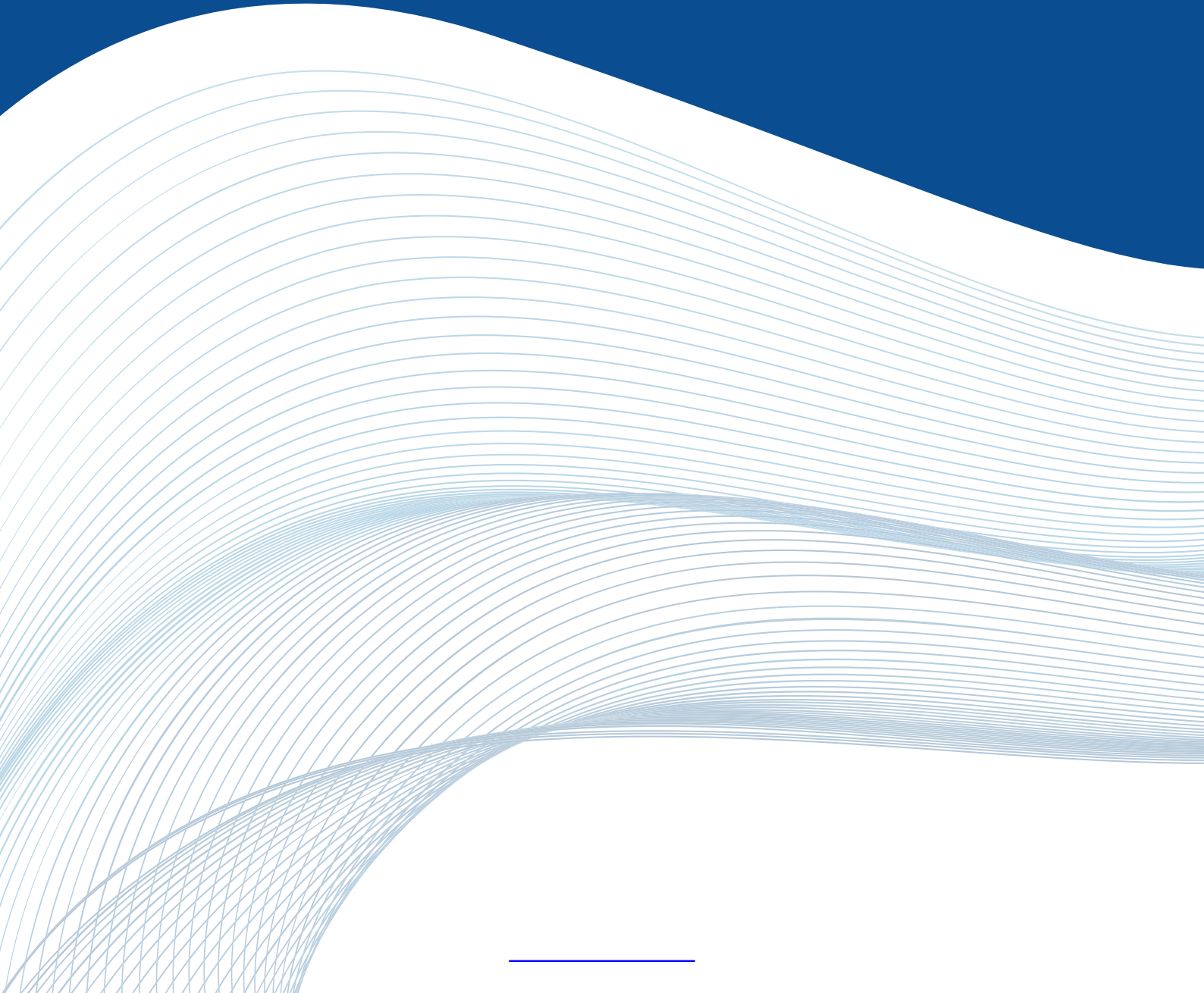
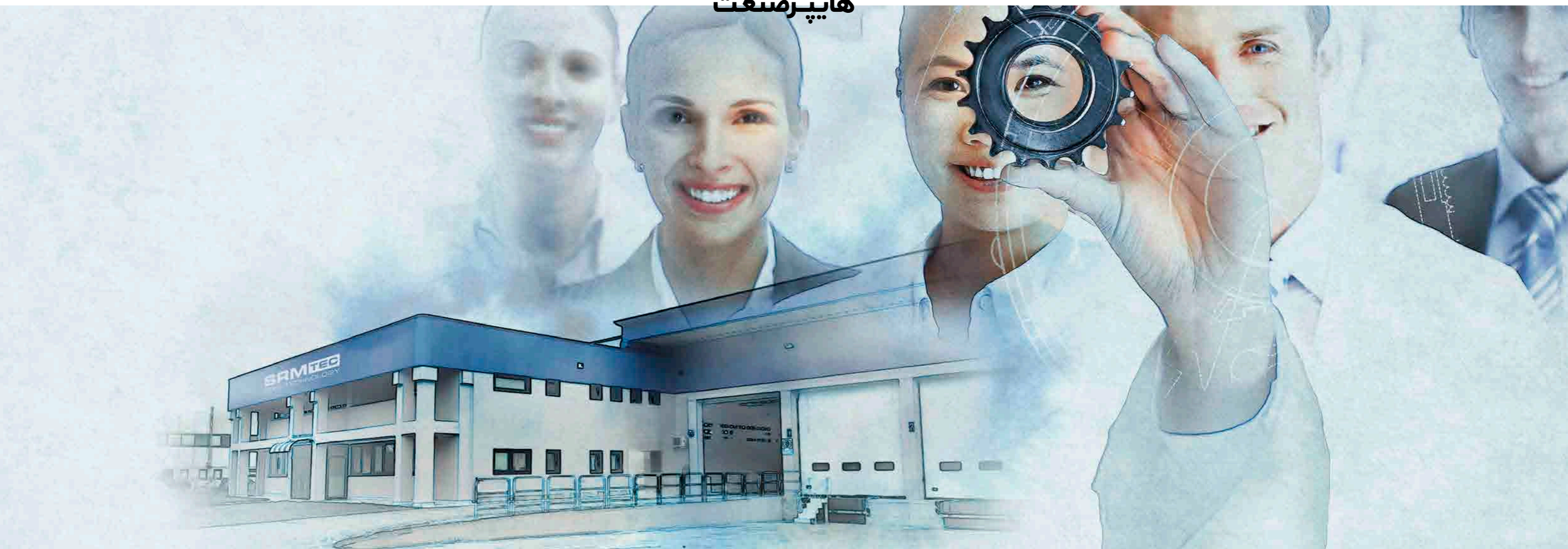


# SRMTEC

## PRODUCT GUIDE

*Refrigeration compressors  
for commercial and industrial  
applications*





## ADVANCED COMPRESSOR TECHNOLOGIES: SINCE 1908

The SRMTEC brand represents the most complete range of screw and reciprocating compressors for commercial and industrial applications, straight from Europe's newest manufacturing facilities. Our technologically innovative solutions are backed by expert support on every continent worldwide.

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Our origins date back to 1908 with the founding of Svenska Rotor Maskiner (SRM) in Stockholm (Sweden). Our first compressor dates back to 1934, when SRM invented screw compressor technology, revolutionising the market.

We possess over 300 patents with 6 Group R&D facilities spread across 3 continents. SRMTEC products feature unique patented innovations which set them apart in the quest for improved performance and reduced ambient footprints; our compressor solutions are optimised for the application of environmentally friendly and natural refrigerants, including ammonia, propane, CO<sub>2</sub> and HFOs.

A consolidated know-how covering individual commercial and industrial market applications ensures SRMTEC products exactly meet every specific customer request.

تهران، کیلومتر ۲۱ بزرگراه لشگری (جاده مخصوص کرج)

روبروی پالایشگاه نفت پارس، پلاک ۱۲ [www.gonitro.com](http://www.gonitro.com)

Close collaboration with our customers and partners ensures our projects are meticulously developed according to individual customer requirements.

Our brand-new manufacturing facilities in Italy feature the most advanced production and quality assurance technologies. Optimised processes combine with stringent quality control and performance tests for every compressor we manufacture, ensuring SRMTEC compressors offer unrivalled peace of mind.

The SRMTEC brand is part of the world's fastest growing compressor supplier, with 16 Group Companies covering every continent and sales partners worldwide, ensuring we are always close at hand.

Our technical excellence, extensive product range and elevated manufacturing capacity affirm our position as a leading global refrigeration compressor manufacturer.



## THE MOST COMPLETE RANGE FOR ALL APPLICATION NEEDS

### Semi-hermetic reciprocating compressors

Semi-hermetic reciprocating compressors with 2, 4, 6 or 8 cylinders, offering high performance and efficiency within a robust and reliable package. Low and medium temperature versions are available, for commercial and industrial refrigeration systems and air conditioning applications. All models are suitable for variable frequency drive.

Range	Displacement (m <sup>3</sup> /h at 50Hz)	Motor Power (HP)	Configuration
RP1	17,5 to 222	3 to 70	Single stage
SP1	1,5 to 48,5	0,5 to 30	Subcritical CO <sub>2</sub>
TP1	4,4 to 25,5	6 to 40	Transcritical CO <sub>2</sub>
PP1	17,5 to 222	3 to 70	Propane optimised
DP1	27,6 to 51,5	12 to 30	Two stage

### Semi-hermetic compact screw compressors

Numerous applications, including chillers, heat pumps, flooded systems and refrigeration, are catered for. Available in high and ultra-efficient configurations and with an internal frequency inverter, Customer specified Vi control and automatic self-regulating Vi ensure further efficiency gains, and all models are suitable for variable frequency drive.

Range	Displacement (m <sup>3</sup> /h at 50Hz)	Motor Power (HP)	Configuration
ES3	270 to 1100	70 to 300	High efficiency
RS3	118 to 1100	30 to 390	Versatile application
IS3	378 to 1540	100 to 420	Internal inverter
RS5	365 to 1150	100 to 400	Very high efficiency
PS3	118 to 1100	40 to 390	Propane optimised

### Semi-hermetic screw compressors

Screw compressors for low and medium temperatures, offering performance, reliability and patented technologies. Typical applications include marine refrigeration, petrochemical, pharmaceutical and chemical processes, industrial refrigeration, cold chain logistics, ultra-low temperature refrigeration and high temperature ammonia heat pumps.

Range	Displacement (m <sup>3</sup> /h) #	Motor Power	Configuration
RW5	85 to 500	20 to 150 HP	High efficiency
RW3	118 to 700	30 to 250 HP	Versatile application
SRS	84 to 608	22 to 134 kW	Single-stage
SRS 2-stage	141 to 652	29 to 155 kW	Two-stage

# At 50Hz for RW, at 3600rpm for SRS

### Open-drive screw compressors

Single and two-stage screw compressors, including high pressure versions, ideally suited to industrial refrigeration and heat pump applications and allowing operation within a wide operating range. All models are offered with stepless capacity control and for operation with environmentally friendly natural refrigerants.

Range	Displacement (m <sup>3</sup> /h at 50Hz)	Max Speed (rpm)	Configuration
SRM	265 to 6350	3600 to 6000	Single stage
SRM 2-stage	652 to 5090	3000 to 3600	Two stage
SRH	161 to 1409	3600 to 4200	High pressure

## WHATEVER THE REFRIGERANT, WE HAVE THE SOLUTION

Modern customer needs, environmental concerns and legislations require ever more diverse needs as regards the refrigerants being applied. SRMTEC caters for a global market covering commercial and industrial applications.

### Standard refrigerants

Compressors offering optimised operation with the latest HFC, HFO and HCFC solutions.

Compressor type	Range	Refrigerants
Semi-hermetic reciprocating	RP1	R404A, R407C, R507A, R1233ze, R448A, R449A, R134a, R513A
	DP1	R404A, R407F, R507A, R448A, R449A
Semi-hermetic compact screw	RS3	R404A, R407C, R507A, R1233ze, R448A, R449A, R134a, R513A
	ES3	R134a, R1234yf, R1234ze, R245fa, R513A
	IS3	R134a, R450A, R513A
Semi-hermetic screw	RS5	R134a, R1234yf, R1234ze, R407C, R404A, R450A, R513A
	RW3	R404A, R407C, R507A, R1233ze, R448A, R449A, R134a, R513A
	RW5	R404A, R407C, R507A, R1233ze, R448A, R449A, R134a, R513A

### Ammonia (R717)

Compressors for Ammonia, a zero ODP and zero GWP refrigerant used in applications including refrigeration and foods.

Compressor type	Range	Refrigerants
Semi-hermetic screw	SRS	R717
	SRS 2-stage	R717
Open-drive screw	SRM	R717
	SRM 2-stage	R717
	SRH	R717

### Hydrocarbons (Propane R290, etc.)

Compressors designed for Hydrocarbons, suitable in small and large systems and offering zero ODP and a negligible GWP.

Compressor type	Range	Refrigerants
Semi-hermetic reciprocating	PP1	R290, R600A, R1270
Semi-hermetic compact screw	PS3	R290, R600A, R1270

### CO<sub>2</sub> (R744)

Compressors for CO<sub>2</sub>, with zero ODP and a negligible GWP. Well suited in subcritical and transcritical systems.

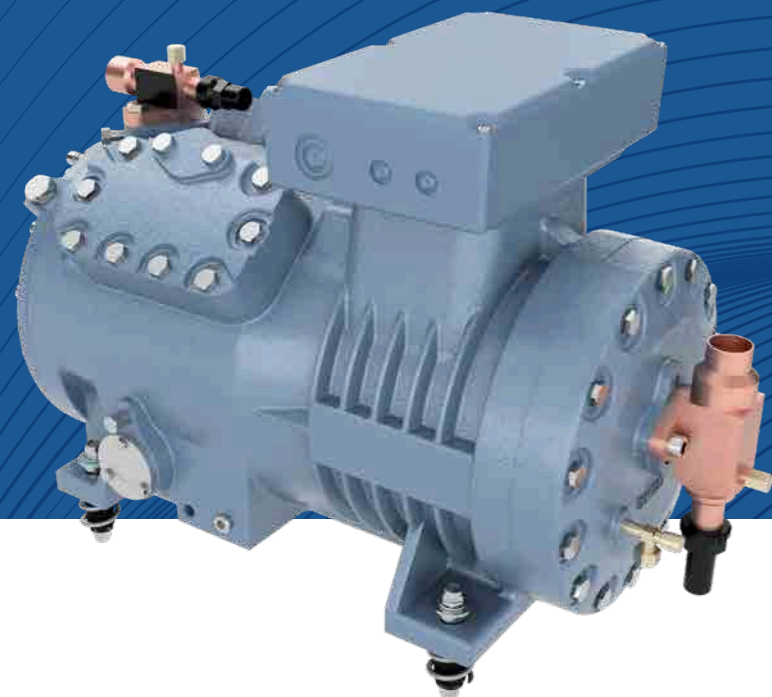
Compressor type	Range	Refrigerants
Semi-hermetic reciprocating	SP1	R744, R410A
	TP1	R744
Open-drive screw	SRH	R744

**RP1**  
SERIES

Single stage semi-hermetic  
reciprocating compressors

Single stage semi-hermetic  
reciprocating compressors

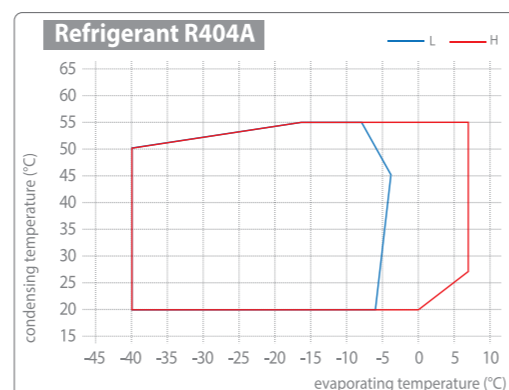
**RP1**  
SERIES



**REFRIGERANTS:**  
R404A, R407C, R507A, R1233ze, R448A,  
R449A, R134a, R513A

Single-stage compressors with displacements from 17,5 to 222 m<sup>3</sup>/h and a power range of 3 to 70HP. Typically used in commercial and industrial refrigeration and specific air conditioning systems. Available in 2, 4, 6 or 8 cylinder configurations for low and medium temperature applications.

The compact and fully featured design is configurable to individual needs, with excellent full and part load efficiency levels and the choice between splasher and forced oil lubrication.



	Model	Motor power (HP)	Displacement (m <sup>3</sup> /h at 50Hz)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
2 cylinder	RP1-L203	3	17,5	585	291	325	84
	RP1-L204	4	21	585	291	325	85
	RP1-L205	5	24,5	585	291	325	85
	RP1-L206	6	28	585	291	325	86
4 cylinder	RP1-L406	6	35	650	339	394	134
	RP1-L408	8	42	650	339	394	139
	RP1-L410	10	49	650	339	394	144
	RP1-L412	12	56	650	339	394	146
	RP1-L415	15	64,7	724	507	459	182
	RP1-L418	18	75	724	507	459	186
	RP1-L422	22	86,1	724	507	459	195
	RP1-L425	25	102,9	724	507	459	220
6 cylinder	RP1-L627	27	112,5	807	563	498	230
	RP1-L630	30	129,1	807	563	498	236
	RP1-L640	40	154,4	787	563	498	247
8 cylinder	RP1-L850	50	186	906	512	537	340
	RP1-L860	60	222	906	512	537	345

	Model	Motor power (HP)	Displacement (m <sup>3</sup> /h at 50Hz)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
2 cylinder	RP1-H205	5	17,5	585	291	325	86
	RP1-H206	6	21	585	291	325	87
	RP1-H208	8	24,5	622	291	325	87
	RP1-H209	9	28	622	291	325	91
	RP1-H410	10	35	650	339	394	143
4 cylinder	RP1-H412	12	42	650	339	394	146
	RP1-H415	15	49	680	339	394	152
	RP1-H420	20	56	680	339	394	155
	RP1-H422	22	64,7	724	507	459	193
	RP1-H425	25	75	724	507	459	206
	RP1-H430	30	86,1	724	507	459	209
	RP1-H435	35	102,9	724	507	459	238
	RP1-H637	37	112,5	807	563	498	241
6 cylinder	RP1-H640	40	129,1	807	563	498	246
	RP1-H650	50	154,4	787	563	498	250
8 cylinder	RP1-H860	60	186	906	512	537	345
	RP1-H870	70	222	906	512	537	350

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## SP1 SERIES

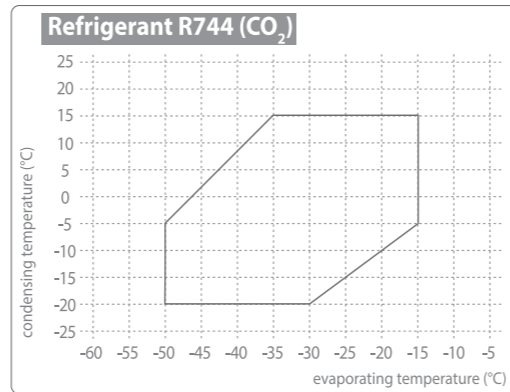
Single stage semi-hermetic reciprocating compressors for subcritical applications



### REFRIGERANTS: R744 (CO<sub>2</sub>), R410A

Developed for low GWP CO<sub>2</sub> and for operation in subcritical applications, with displacements from 1,5 to 48,5 m<sup>3</sup>/h and a power range from 0,5 to 30HP. Typically used for cascade and 2-stage compound systems. Available in 2 or 4 cylinder configurations for low and medium temperature applications.

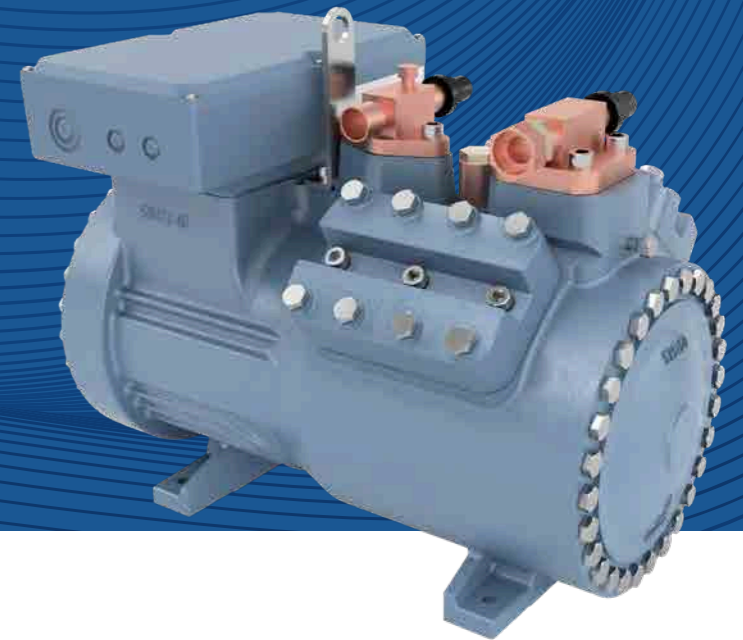
The compact package features advanced motor protection devices, a CO<sub>2</sub> optimised high performance valve plate and a design focussed on high reliability in all conditions.



	Model	Motor power (HP)	Displacement (m <sup>3</sup> /h at 50Hz)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
2 cylinder	SP1-H2005-S	0,5	1.5	373	203	297	47
	SP1-H2007-S	0,7	1.8	373	203	297	47
	SP1-H2008-S	0,8	2.3	373	203	297	48
	SP1-H2010-S	1	2.8	373	203	297	48
	SP1-H2020-S	2	3.6	373	203	297	50
	SP1-H2030-S	3	4.5	373	203	297	50
	SP1-H2031-S	3,1	5.5	385	203	297	52
	SP1-H2040-S	4	6.7	385	203	297	52
	SP1-H2041-S	4,1	7.8	439	263	349	78
	SP1-H2050-S	5	9.2	439	263	349	80
	SP1-H2060-S	6	11.2	462	263	349	84
4 cylinder	SP1-H4070-S	7	13	512	312	393	97
	SP1-H4090-S	9	15.6	512	312	393	98
	SP1-H4100-S	10	18.4	534	312	393	103
	SP1-H4120-S	12	22.3	534	312	393	103
	SP1-H4150-S	15	28.7	219	341	408	158
	SP1-H4200-S	20	34.7	219	341	408	162
	SP1-H4250-S	25	41.3	765	341	408	172
	SP1-H4300-S	30	48.5	765	341	408	175

Single stage semi-hermetic reciprocating compressors for transcritical applications

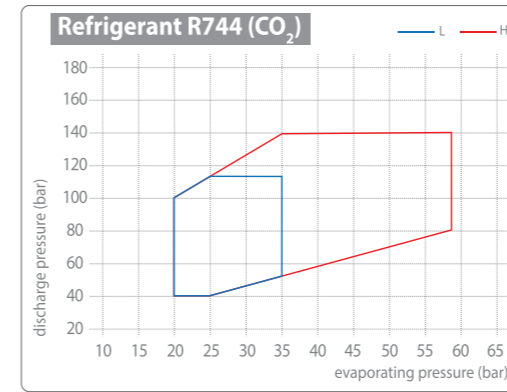
## TP1 SERIES



### REFRIGERANTS: R744 (CO<sub>2</sub>)

Developed for low GWP CO<sub>2</sub> and for operation in transcritical applications, with displacements from 4,4 to 25,5 m<sup>3</sup>/h and a power range from 6 to 40HP. Typically used in air conditioning and heat pumps. Available in 4 cylinder configurations for low and medium temperature applications.

The affirmed quality design offers high reliability and a CO<sub>2</sub> optimised high performance valve plate, within a fully featured package.



	Model	Motor power (HP)	Displacement (m <sup>3</sup> /h at 50Hz)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
Low temperature	TP1-L4060-S	6	4.4	512	304	393	98
	TP1-L4061-S	6,1	5.4	512	304	393	100
	TP1-L4070-S	7	6.6	512	304	393	103
	TP1-L4071-S	7,1	8	512	304	393	110
	TP1-L4090-S	9	9.6	512	304	393	112
	TP1-L4100-S	10	9.2	667	350	408	154
	TP1-L4150-S	15	11.9	667	350	408	158
	TP1-L4200-S	20	14.4	667	350	408	165
	TP1-L4201-S	20,1	17.8	667	350	408	170
	TP1-L4250-S	25	21.9	722	350	408	182
	TP1-L4300-S	30	25.5	722	350	408	188
High temperature	TP1-H4070-S	7	4.4	512	304	393	102
	TP1-H4071-S	7,1	5.4	512	304	393	102
	TP1-H4090-S	9	6.6	512	304	393	109
	TP1-H4091-S	9,1	8	535	304	393	114
	TP1-H4150-S	15	9.2	667	350	408	158
	TP1-H4200-S	20	11.9	667	350	408	165
	TP1-H4250-S	25	14.4	667	350	408	170
	TP1-H4300-S	30	17.8	722	350	408	182
	TP1-H4370-S	37	21.9	722	350	408	188
	TP1-H4400-S	40	25.5	722	350	408	195



**PP1**  
SERIES

Single stage semi-hermetic  
reciprocating compressors

Single stage semi-hermetic  
reciprocating compressors

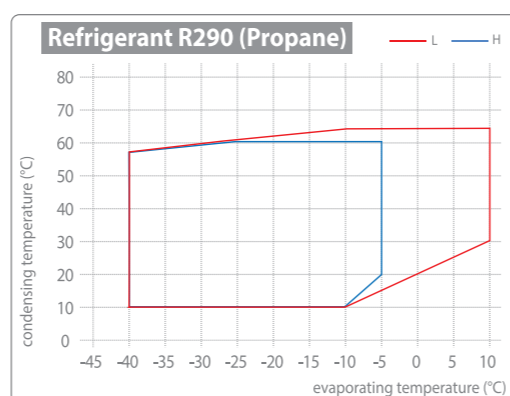
**PP1**  
SERIES



REFRIGERANTS:  
R290, R600A, R1270

Specifically developed for low GWP Propane, with displacements from 17,5 to 222 m<sup>3</sup>/h and a power range from 3 to 70HP. Typically used for water coolers, air coolers and heat pumps. Available in 2, 4, 6 or 8 cylinder configurations for low and medium temperature applications.

The compact, Propane optimised configuration is available with splasher and forced oil lubrication, in a fully featured package configurable to individual needs.



Model	Motor power (HP)	Displacement (m <sup>3</sup> /h at 50Hz)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)	
2 cylinder	PP1-L203	3	17,5	585	291	325	84
	PP1-L204	4	21	585	291	325	85
	PP1-L205	5	24,5	585	291	325	85
	PP1-L206	6	28	585	291	325	86
4 cylinder	PP1-L406	6	35	650	339	394	134
	PP1-L408	8	42	650	339	394	139
	PP1-L410	10	49	650	339	394	144
	PP1-L412	12	56	650	339	394	146
	PP1-L415	15	64,7	724	507	459	182
	PP1-L418	18	75	724	507	459	186
	PP1-L422	22	86,1	724	507	459	195
6 cylinder	PP1-L425	25	102,9	724	507	459	220
	PP1-L627	27	112,5	807	563	498	230
	PP1-L630	30	129,1	807	563	498	236
8 cylinder	PP1-L640	40	154,4	787	563	498	247
	PP1-L850	50	186	906	512	537	340
	PP1-L860	60	222	906	512	537	345

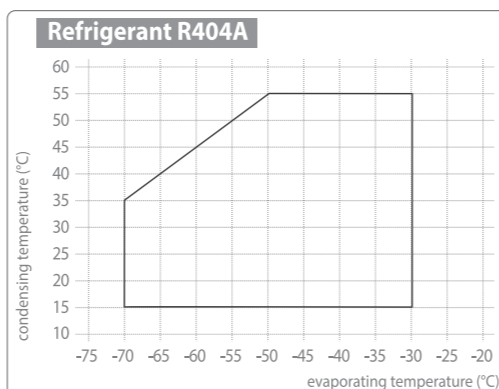
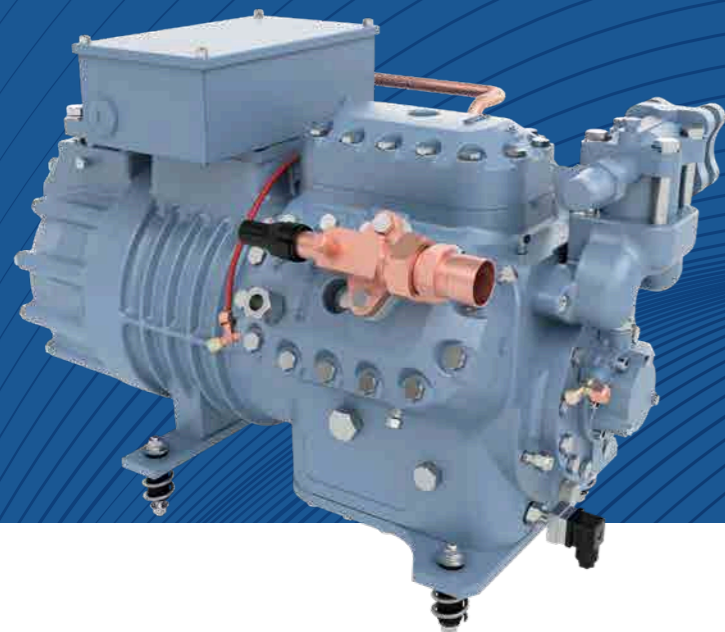
Model	Motor power (HP)	Displacement (m <sup>3</sup> /h at 50Hz)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)	
2 cylinder	PP1-H205	5	17,5	585	291	325	86
	PP1-H206	6	21	585	291	325	87
	PP1-H208	8	24,5	622	291	325	87
	PP1-H209	9	28	622	291	325	91
	4 cylinder	PP1-H410	10	35	650	339	394
PP1-H412		12	42	650	339	394	146
PP1-H415		15	49	680	339	394	152
PP1-H420		20	56	680	339	394	155
PP1-H422		22	64,7	724	507	459	193
PP1-H425		25	75	724	507	459	206
PP1-H430		30	86,1	724	507	459	209
PP1-H435		35	102,9	724	507	459	238
6 cylinder	PP1-H637	37	112,5	807	563	498	241
	PP1-H640	40	129,1	807	563	498	246
	PP1-H650	50	154,4	787	563	498	250
8 cylinder	PP1-H860	60	186	906	512	537	345
	PP1-H870	70	222	906	512	537	350

**DP1**  
 SERIES

**Two stage semi-hermetic  
 reciprocating compressors**
**REFRIGERANTS:**
**R404A, R407F, R507A, R448A, R449A**

Two-stage compressors with displacements from 27,6 to 51,5 m<sup>3</sup>/h and a power range of 12 to 30HP. Two consecutive compression stages allow operation at lower compression ratios for each stage, resulting in improved efficiency. Available in 4 or 6 cylinder configurations.

The 2-stage configuration allows for improved efficiency, with an optional subcooler allowing further efficiency gains, all within a compact all-in-one package.

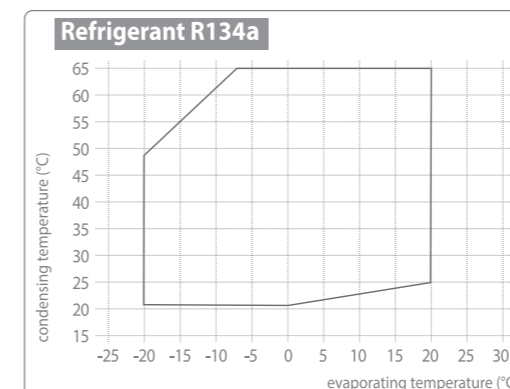


	Model	Motor power (HP)	Displacement (m <sup>3</sup> /h at 50Hz)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
4 cylinder	DP1-L412-F	12	27,6	724	488	505	197
	DP1-L414-F	14	27,6	724	488	505	201
6 cylinder	DP1-L616-F	16	32,4	820	548	525	205
	DP1-L620-F	20	37,5	820	548	525	215
	DP1-L625-F	25	43	820	548	525	225
	DP1-L630-F	30	51,5	820	548	525	232

**REFRIGERANTS:**
**R134a, R1234yf, R1234ze, R245fa, R513A**

Offered with displacements from 270 to 1100 m<sup>3</sup>/h and a power range from 70 to 300HP, optimised for high energy efficiencies using refrigerant R134a and R1234. Utilised in medium and high evaporating temperature applications including liquid chillers, heat pumps and process cooling.

The low-noise design features rotors optimally configured by the inventor of screw compressor technology, with multiple Vi and capacity control configurations for highest efficiencies.



	Model	Motor power (HP)	Displacement (m <sup>3</sup> /h at 50Hz)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
	ES3-L070	70	270	1393	502	656	510
	ES3-L080	80	307	1393	502	656	518
	ES3-L090	90	344	1393	502	656	532
	ES3-L100	100	380	1393	502	656	538
	ES3-L110	110	413	1537	532	770	660
	ES3-L120	120	480	1537	532	770	670
	ES3-L140	140	560	1537	532	770	680
	ES3-L160	160	640	1776	616	819	930
	ES3-L180	180	720	1776	616	819	940
	ES3-L210	210	805	1776	616	819	950
	ES3-L220	220	850	1776	616	819	980
	ES3-L240	240	910	2091	696	879	1330
	ES3-L270	270	1000	2091	696	879	1350
	ES3-L300	300	1100	2091	696	879	1390

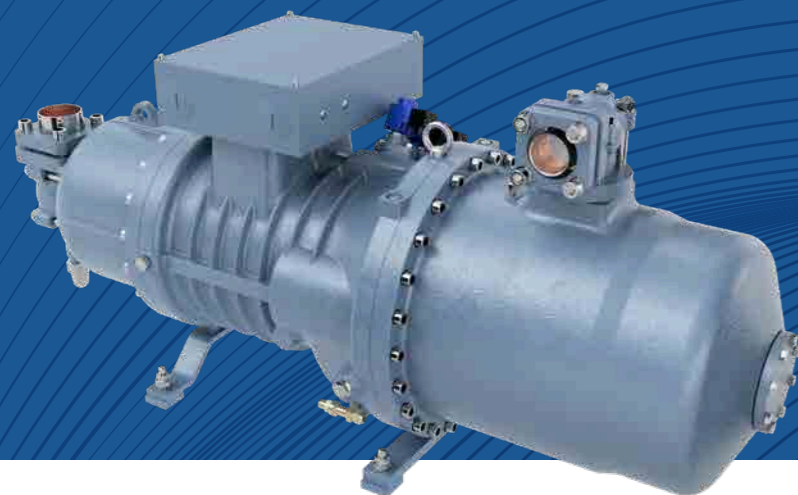


## RS3 SERIES

### Semi-hermetic compact screw compressors

### Semi-hermetic compact screw compressors

## RS3 SERIES

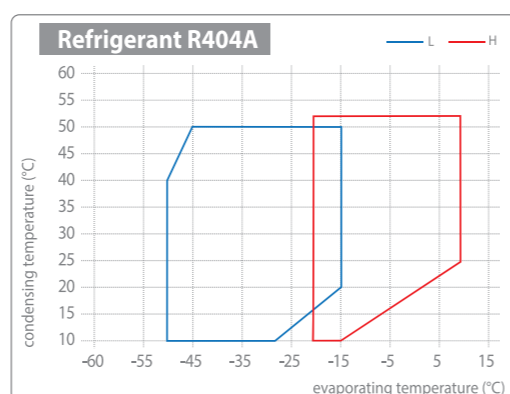


#### REFRIGERANTS:

R404A, R407C, R507A, R1233ze, R448A,  
R449A, R134a, R513A

Offered with displacements from 118 to 1100 m<sup>3</sup>/h and a power range from 30 to 390HP. Utilised in medium and high evaporating temperature applications including liquid chillers, heat pumps and process cooling. RS3 offers capacity control and configurable Vi ratios.

The compact design features an integrated 3-way separator, optimised rotor design and configurable Vi ratios ensuring highest efficiency in all conditions.

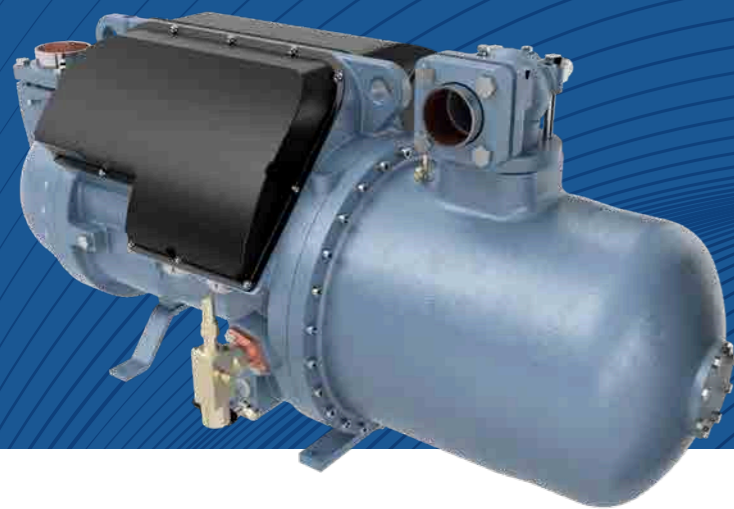


Model	Motor power (HP)	Displacement (m <sup>3</sup> /h at 50Hz)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
RS3-L030	30	118	1212	430	495	325
RS3-L040	40	150	1212	430	495	330
RS3-L050	50	175	1212	430	495	335
RS3-L060	60	205	1450	440	635	510
RS3-L070	70	237	1450	440	635	515
RS3-L080	80	286	1516	480	655	615
RS3-L090	90	318	1516	480	655	590
RS3-L100	100	341	1516	480	655	625
RS3-L120	120	402	1620	532	763	730
RS3-L140	140	445	1620	532	763	740
RS3-L160	160	510	1620	532	763	775
RS3-L180	180	562	1725	590	814	1010
RS3-L200	200	600	1725	590	814	1030
RS3-L220	220	700	1725	590	814	1020
RS3-L240	240	860	1776	616	819	980
RS3-L270	270	910	2091	696	879	1400
RS3-L300	300	1000	2091	696	879	1400
RS3-L350	350	1100	2091	696	879	1400

Model	Motor power (HP)	Displacement (m <sup>3</sup> /h at 50Hz)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
RS3-H040	40	118	1212	430	495	325
RS3-H050	50	150	1212	430	495	330
RS3-H060	60	175	1212	430	495	335
RS3-H070	70	205	1450	440	635	510
RS3-H080	80	237	1450	440	635	515
RS3-H100	100	286	1516	480	655	615
RS3-H110	110	318	1516	480	655	590
RS3-H120	120	341	1516	480	655	625
RS3-H140	140	402	1620	532	763	730
RS3-H160	160	445	1620	532	763	740
RS3-H180	180	510	1620	532	763	775
RS3-H200	200	562	1725	590	814	1010
RS3-H220	220	600	1725	590	814	1030
RS3-H240	240	700	1725	590	814	1020
RS3-H280	280	860	1776	616	819	980
RS3-H300	300	910	2091	696	879	1400
RS3-H350	350	1000	2091	696	879	1400
RS3-H390	390	1100	2091	696	879	1400

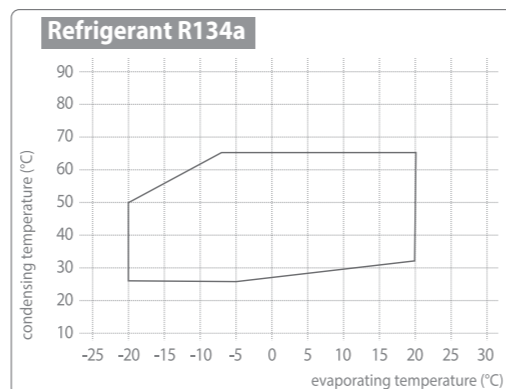


**IS3**  
 SERIES

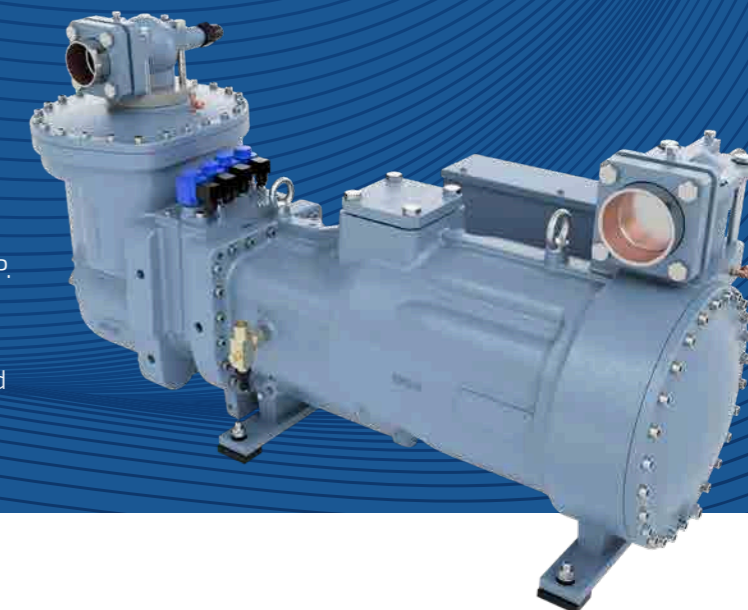
**Semi-hermetic compact screw compressors  
 with integrated frequency control**

**REFRIGERANTS:**
**R134a, R450A, R513A**

Compressors with internal frequency control, an original SRM TEC development and ensuring highest energy efficiencies. Offered with displacements from 378 to 1540 m<sup>3</sup>/h and a power range from 100 to 420HP. Utilised in applications including liquid chillers and heat pumps.

The integrated inverter, cooled by the refrigerant, offers a very wide operating frequency range. IS3 features automatic compression range control technology.

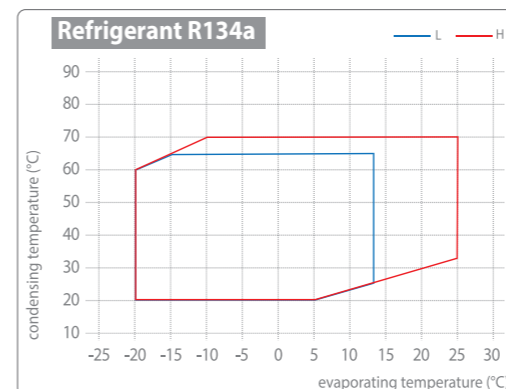


Model	Motor power (HP)	Displacement (m <sup>3</sup> /h at 50Hz)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
IS3-H100	100	378	1425	715	712	560
IS3-H110	110	430	1425	715	712	568
IS3-H130	130	482	1425	715	712	582
IS3-H140	140	532	1425	715	712	588
IS3-H160	160	578	1539	767	772	780
IS3-H180	180	672	1540	824	772	790
IS3-H220	220	784	1540	824	772	800
IS3-H230	230	896	1774	821	823	980
IS3-H250	250	1008	1774	821	823	990
IS3-H300	300	1127	1774	821	823	1000
IS3-H330	330	1274	2173	878	815	1380
IS3-H380	380	1400	2173	878	815	1410
IS3-H420	420	1540	2173	878	815	1460

**Semi-hermetic compact  
 screw compressors**
**RS5**  
 SERIES

**REFRIGERANTS:**
**R134a, R1234yf, R1234ze, R407C,  
 R404A, R450A, R513A**

The unique patented compressor with automatic continuously variable Vi ratio, ensuring very high energy efficiencies. Offered with displacements from 365 to 1150 m<sup>3</sup>/h and a power range from 100 to 400HP. Utilised in applications including liquid chillers, heat pumps and process cooling.

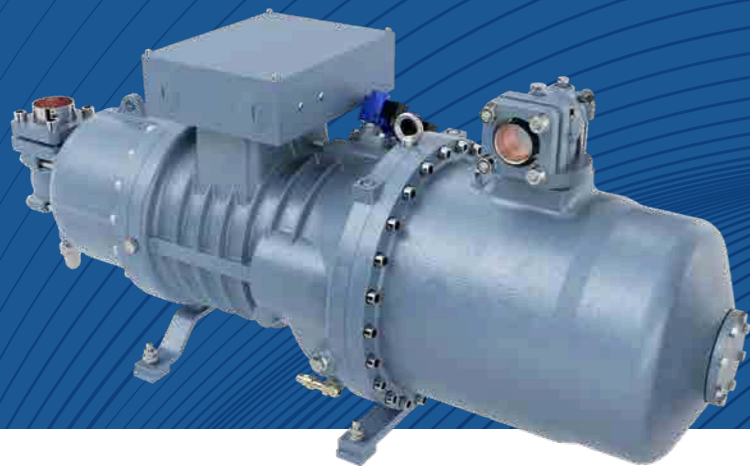
Highest efficiency in the full operating range is ensured by patented automatic continuously variable Vi ratios, Actiflow oil management and a unique centrifugal separator ensuring 80% less oil carry-over.



	Model	Motor power (HP)	Displacement (m <sup>3</sup> /h at 50Hz)	Length (mm)	Width (mm)	Height (mm)
Low temperature	RS5-L125	125	480	1464	609	671
	RS5-L140	140	570	1464	609	671
	RS5-L160	160	620	1641	627	744
	RS5-L180	180	710	1641	627	744
	RS5-L210	210	830	2000	699	901
	RS5-L240	240	930	2000	699	901
High temperature	RS5-H160	160	480	1464	609	671
	RS5-H180	180	570	1464	609	671
	RS5-H210	210	620	1641	627	744
	RS5-H240	240	710	1641	627	744
	RS5-H270	270	830	2000	699	901
	RS5-H300	300	930	2000	699	901

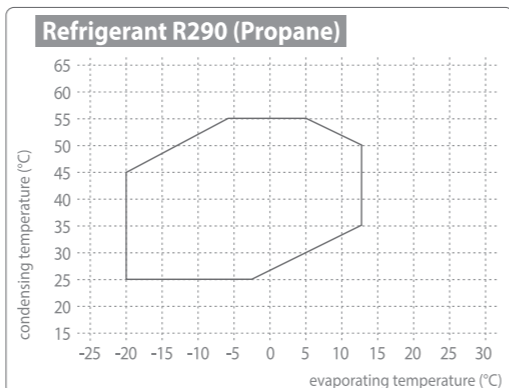
Additional models are being added to the range, to cover displacements of 365-1150m<sup>3</sup>/h (at 50Hz) and motor powers of 100-400HP.

**PS3**  
 SERIES

**Semi-hermetic compact  
 screw compressors**

**REFRIGERANTS:**
**R290, R600A, R1270**

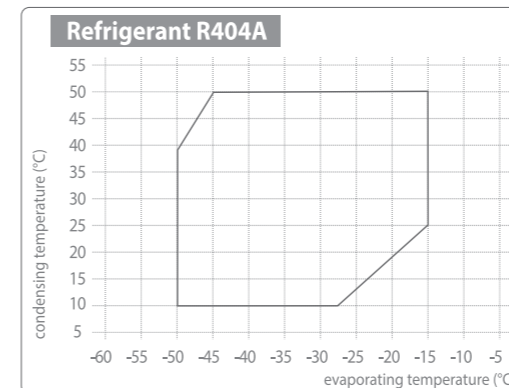
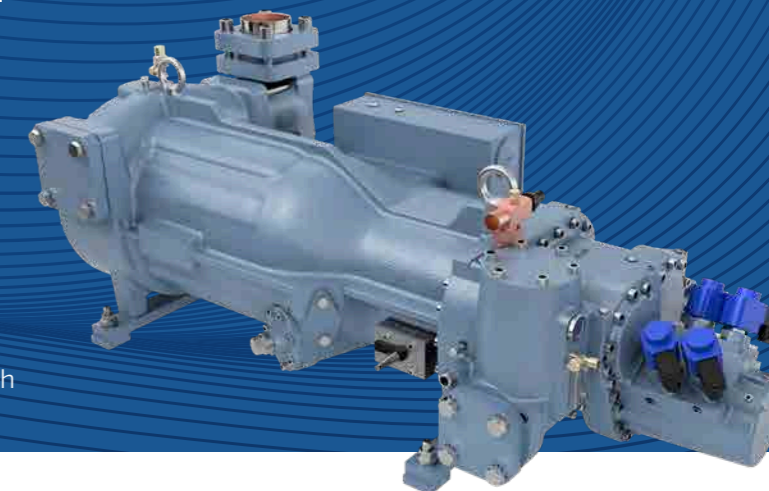
Specifically developed for low GWP Propane, with displacements from 118 to 1100 m<sup>3</sup>/h and a power range from 40 to 390HP. Available in standard and high compression ratio configurations. Utilised in applications including liquid chillers, heat pumps and process cooling.

The high efficiency rotor design, within a compact package optimised to Propane operation, offers multiple configurable Vi ratios and capacity control options ensuring highest efficiency.


**REFRIGERANTS:**
**R404A, R407C, R507A, R1233ze,  
 R448A, R449A, R134a, R513A**

The unique patented compressor, ensuring very high energy efficiencies whatever the conditions. Offered with displacements from 85 to 500 m<sup>3</sup>/h, a power range from 20 to 150HP and for operation at medium/ low temperatures. A unique semi-hermetic package developed for Refrigeration.

Patented variable Vi ratio technology is packed within an extremely compact and CFD optimised housing, with a unique patented rotor design.



Model	Motor power (HP)	Displacement (m <sup>3</sup> /h at 50Hz)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
PS3-H040	40	118	1212	430	495	325
PS3-H050	50	150	1212	430	495	330
PS3-H060	60	175	1212	430	495	335
PS3-H070	70	205	1450	440	635	510
PS3-H080	80	237	1450	440	635	515
PS3-H100	100	286	1516	480	655	615
PS3-H110	110	318	1516	480	655	590
PS3-H120	120	341	1516	480	655	625
PS3-H140	140	402	1620	532	763	730
PS3-H160	160	445	1620	532	763	740
PS3-H180	180	510	1620	532	763	775
PS3-H200	200	562	1725	590	814	1010
PS3-H220	220	600	1725	590	814	1030
PS3-H240	240	700	1725	590	814	1020
PS3-H280	280	860	1776	616	819	980
PS3-H300	300	910	2091	696	879	1400
PS3-H350	350	1000	2091	696	879	1400
PS3-H390	390	1100	2091	696	879	1400

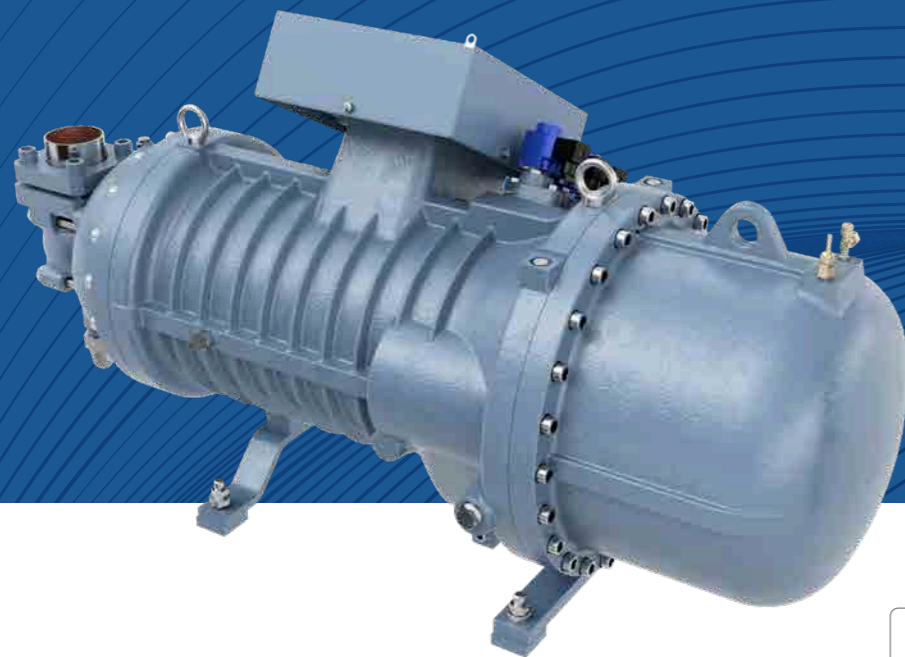
Model	Motor power (HP)	Displacement (m <sup>3</sup> /h at 50Hz)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
RW5-L020	20	85	803	465	411	190
RW5-L025	25	100	803	465	411	200
RW5-L030	30	120	803	465	411	210
RW5-L040	40	140	890	490	390	245
RW5-L050	50	168	890	490	390	250
RW5-L060	60	210	1044	586	486	365
RW5-L070	70	230	1044	586	486	370
RW5-L075	75	250	1044	586	486	375
RW5-L090	90	310	1280	600	501	505
RW5-L100	100	340	1280	600	501	510
RW5-L110	110	370	1280	600	501	515
RW5-L125	125	420	1348	798	627	680
RW5-L140	140	450	1348	798	627	690
RW5-L150	150	500	1348	798	627	700



**RW3**  
 SERIES

 Semi-hermetic screw  
 compressors

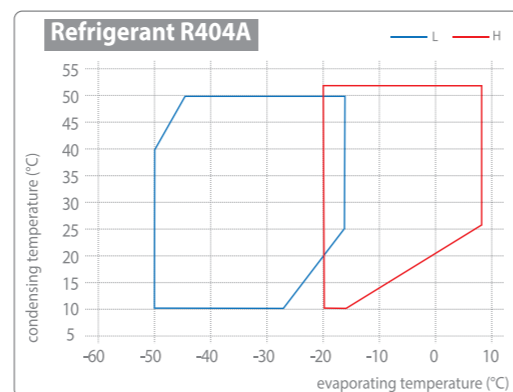
 Semi-hermetic screw  
 compressors

**RW3**  
 SERIES

**REFRIGERANTS:**

 R404A, R407C, R507A, R1233ze, R448A,  
 R449A, R134a, R513A

Compressors designed for utilisation within numerous Refrigeration applications and for operation in low (L) and medium/high (H) temperature systems, offered with displacements from 118 to 700 m<sup>3</sup>/h and a power range from 30 to 250HP. RW3 offers capacity control and configurable Vi ratios.

The wide operating range with numerous refrigerants ensures highest efficiency whatever the application, with optimal rotor design from the inventor of screw compressor technology.



Low temperature	Model	Motor power (HP)	Displacement (m <sup>3</sup> /h at 50Hz)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
	RW3-L030	30	118	944	561	473	245
	RW3-L040	40	150	944	561	473	255
	RW3-L050	50	175	944	561	473	265
	RW3-L060	60	205	1153	522	594	410
	RW3-L070	70	237	1153	522	594	420
	RW3-L080	80	286	1322	595	655	520
	RW3-L095	95	318	1322	595	655	525
	RW3-L105	105	341	1322	595	655	530
	RW3-L115	115	402	1444	718	668	665
RW3-L130	130	445	1444	718	668	675	
RW3-L160	160	510	1444	718	668	710	
RW3-L180	180	562	1484	753	721	1030	
RW3-L200	200	600	1484	753	721	1050	
RW3-L220	220	700	1484	753	721	980	

High temperature	Model	Motor power (HP)	Displacement (m <sup>3</sup> /h at 50Hz)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
	RW3-H040	40	118	944	561	473	245
	RW3-H050	50	150	944	561	473	255
	RW3-H060	60	175	944	561	473	265
	RW3-H075	75	205	1153	522	594	410
	RW3-H090	90	237	1153	522	594	420
	RW3-H105	105	286	1322	595	655	535
	RW3-H115	115	318	1322	595	655	540
	RW3-H125	125	341	1322	595	655	545
	RW3-H140	140	402	1444	718	668	665
RW3-H160	160	445	1444	718	668	675	
RW3-H190	190	510	1444	718	668	710	
RW3-H210	210	562	1484	753	721	1030	
RW3-H240	240	600	1484	753	721	1050	
RW3-H250	250	700	1484	753	721	980	

## SRS SERIES

## Semi-hermetic screw compressors

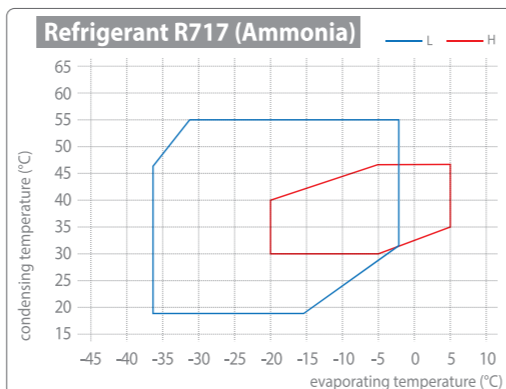
## Two stage semi-hermetic screw compressors

## SRS 2 STAGE SERIES

### REFRIGERANTS:

#### R717 (Ammonia)

SRS, with 84 to 608 m<sup>3</sup>/h displacements and a 22-134kW power range, is used in food processing and storage, marine refrigeration, industrial process chillers and applications requiring compact foot-prints and leak-proof technologies (due to end-user sensitivity), or where shaft-seals must be avoided due to seasonal or intermittent operation. The suction-gas cooled permanent magnet synchronous motor (PMSM), with aluminium windings, offers a compact Ammonia package, with CFD optimised design and patented variable Vi ratios. The i-series rotor design, with 5+7 lobes, ensures smooth operation, low pulsation and vibration levels and high part-load efficiencies due to inverter control over a wide rpm range.



Model	Nominal motor power (kW)#	Displacement (m <sup>3</sup> /h)#	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
SRS08SH	22	102	803	465	411	185
SRS08MH	27	122	803	465	411	195
SRS08LH	33	146	803	465	411	205
SRS10SH	45	170	890	490	390	240
SRS10LH	45	204	890	490	390	260
SRS12SH	54	255	1044	586	486	370
SRS12MH	62	280	1044	586	486	375
SRS12LH	72	304	1044	586	486	380
SRS14SM	90	377	1280	600	501	505
SRS14MM	90	414	1280	600	501	510
SRS14LM	107	450	1280	600	501	515
SRS16SM	134	511	1348	798	627	680
SRS16MM	134	547	1348	798	627	690
SRS16LM	134	608	1348	798	627	700
SRS08SL	22	84	803	465	411	185
SRS08ML	27	100	803	465	411	195
SRS10SL	45	140	890	490	390	240
SRS12SL	54	210	1044	586	486	370
SRS12ML	62	230	1044	586	486	375
SRS14SR	90	310	1280	600	501	505
SRS14MR	90	340	1280	600	501	510
SRS16SR	134	420	1348	798	627	680
SRS16MR	134	450	1348	798	627	690

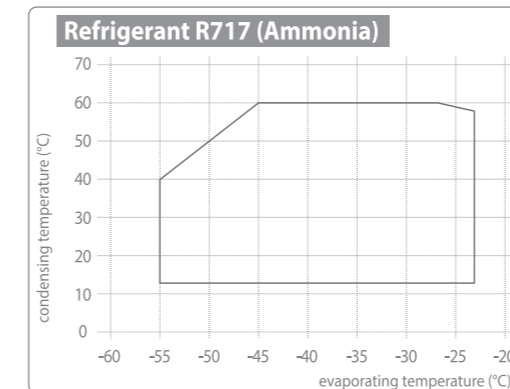
# Referred to rated speed 3600rpm

### REFRIGERANTS:

#### R717 (Ammonia)

Offered with displacements from 141 to 652 m<sup>3</sup>/h and for application in food processing, blast, spiral and tunnel-freezing, marine refrigeration and very low temperature cold storage within limited spaces.

The double stage configuration, with two compressors on one single drive-shaft, offers a compact and efficient solution for dedicated low temperature demand requirements.



Model	Nominal motor power (kW)#	Displacement (m <sup>3</sup> /h)#	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
SRS1008SS	28,8	141	1334	665	455	362
SRS1008LL	44,4	221	1396	665	455	445
SRS1210SS	67,2	332	1472	725	467	500
SRS1210LL	90	463	1538	725	467	700
SRS1612LS	155	652	1982	784	685	1161

# Referred to rated speed 3600rpm

medium/low evaporation temperatures

high evaporation temperatures

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تهران، کیلومتر ۲۱ بزرگراه لشگری (جاده مخصوص کرج)

روبروی پالایشگاه نفت پارس، پلاک ۱۲ [www.gonitro.com](http://www.gonitro.com)



## SRM SERIES

## Open-drive screw compressors

## Two stage open-drive screw compressors

## SRM 2 STAGE SERIES

### REFRIGERANTS:

#### R717 (Ammonia)

Offered with displacements from 265 to 6.350 m<sup>3</sup>/h and for application in mission critical industrial refrigeration where ultimate reliability and process security is required, including petrochemical, pharmaceutical and chemical applications, low temperature storage and marine refrigeration.

SRM features fewer moving parts and high life span bearings, notably increasing maintenance intervals. The SRM i-profile rotor design with 5+7 lobes, stepless capacity control, stepless (automatic) Vi regulation and a wide rpm range for inverter speed control, ensures highest efficiency levels. Generously dimensioned bearings and low manufacturing tolerances guarantee smooth operation and low noise levels.



### REFRIGERANTS:

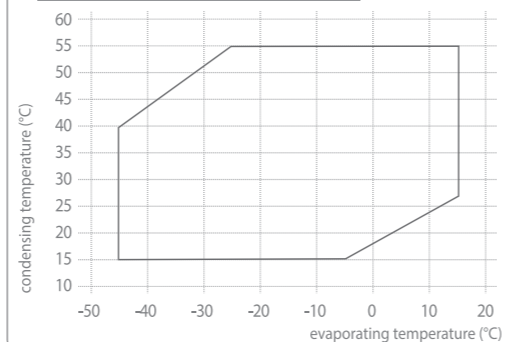
#### R717 (Ammonia)

Offered with displacements from 652 to 5.090 m<sup>3</sup>/h and for application in very low-temperature industrial refrigeration, food freezing, cold chain logistics, marine refrigeration, ultra-low temperature refrigeration and similar applications where dedicated systems can be applied.

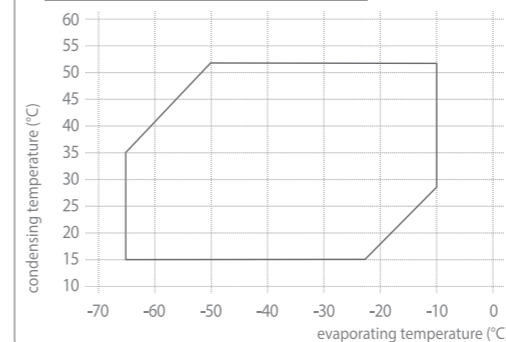
The 2-stage design features a compact, high-efficient solution covering a high compression ratio spread within a single compressor configuration where no side loads on the high stage are needed, combined with the technical features of SRM open-drive compressors.



Refrigerant R717 (Ammonia)



Refrigerant R717 (Ammonia)



Model	Displacement (m <sup>3</sup> /h at 50Hz)	Max speed (rpm)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
SRM12L	265	6000	1071	381,2	453,5	280
SRM16S	435	4800	1071	449	552	470
SRM16M	544	4800	1125	449	552	514
SRM16L	652	4800	1205	449	552	530
SRM20S	850	4800	1219	566	561	745
SRM20M	1100	4800	1340	566	561	789
SRM20L	1270	4800	1418	566	561	850
SRM20LL	1496	4800	1675	566	561	990
SRM26S	1659	4500	1526	717	805	1680
SRM26M	2075	4500	1641	717	805	1800
SRM26L	2478	4500	1732	717	805	1920
SRM26LL	2940	4500	1860	717	805	2075
SRM34S	3360	3600	1920	845	772	2970
SRM34M	4280	3600	2073	845	772	3190
SRM34L	5090	3600	2213	845	772	3395
SRM34LL	6350	3600	2428	845	772	3741

Model	Displacement (m <sup>3</sup> /h at 50Hz)	Max speed (rpm)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
SRM1612LS	652	3600	1521	658	656	990
SRM2016LS	1270	3600	2109	525	599	1170
SRM2620MS	2075	3600	2322	689	845	2200
SRM2620LS	2478	3600	2322	689	845	2320
SRM3426LS	5090	3000	3885	837	965	4300

## SRH SERIES

### Open-drive high pressure screw compressors

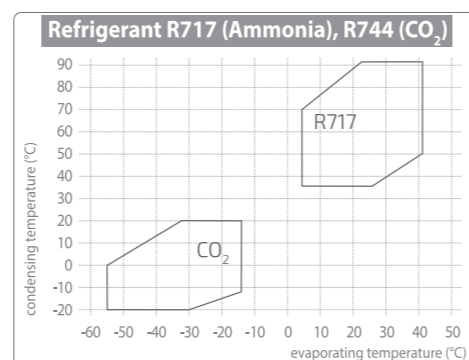


#### REFRIGERANTS:

R717 (Ammonia), R744 (CO<sub>2</sub>)

Offered with displacements from 161 to 1.409 m<sup>3</sup>/h and for application in high temperature Ammonia heat pumps with an un-rivalled compression ratio spread, as well as R744/R717 cascade and booster systems.

SRH offers a 63-bar design pressure, stepless capacity control, stepless (automatic) Vi regulation technology, a high wear resistant slide bearing ensuring a long life-span and a unique patented rotor design with SRM's i-profile with a high rigidity 6+8 lobe combination.



Model	Displacement (m <sup>3</sup> /h at 50Hz)	Max speed (rpm)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
SRH12M	161	4200	1033	556	731	380
SRH16M	322	3600	1180	609,5	787	965
SRH18M	480	3600	1250	671,6	789	1260
SRH20M	854	3600	1453	711	888	1477
SRH26M	1409	3600	1671	972	1170	2150

## SRMTEC COMPRESSORS PERFECTLY MEET YOUR APPLICATION NEEDS

A consolidated know-how covering individual commercial and industrial market applications ensures SRMTEC products exactly meet every specific customer request in line with their unique needs. We believe that an optimised system stems from understanding the exact needs and offering personalised solutions.

### COMMERCIAL REFRIGERATION

We ensure customers receive fresh and safe produce all year round, with the quality and 24/7 reliability these processes demand.

### INDUSTRIAL REFRIGERATION

We have already served countless industrial customer needs worldwide, discover the SRMTEC products specifically for industry.

### COLD CHAIN LOGISTICS

We have the ideal solution for all temperature-controlled transport and storage requirements along the entire cold chain.

### PROCESS COOLING

From industrial processes to data centres to machinery, SRM TEC compressors ensure efficient and reliable operation all year round.

### AIR CONDITIONING

We ensure human comfort and well-being in the most varying commercial, residential and institutional air conditioning applications.

### HEAT PUMPS

All heat pump applications, whether low, medium or high temperature, find their perfect companion with SRMTEC compressors.