

Open-type high-pressure Screw compressor

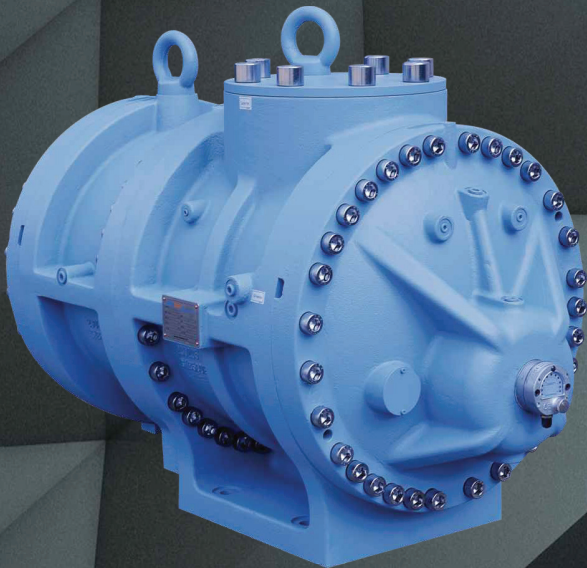
SRM Sweden

The inventor and leader of screw compressor
100-year legacy of technical quality & energy efficiency



Focus on screw technology for one hundred years

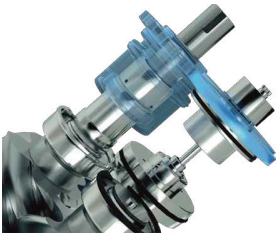
More than 3 million screw compressors all over the world
are technologically licensed by SRM





Rotor

- The screw rotor as the core component is developed based on the SRM patented molded line with 6+8 best gear ratio combination. It has excellent compression properties under high pressure;
- The rotor is manufactured with high-quality forged steel and has excellent overall mechanical properties, high strength and wear resistance;
- The rotor is processed to micrometer precision with tight sealing, even stress and a long service life;
- The maximum operating speed can be up to 6,000 rpm, thus significantly increasing the refrigeration capacity by up to 48%.



Shaft seal

- Innovative spring seal structure, able to withstand higher pressure, ensure sealing performance;
- Wear-resistant super hard sealing surface made of silicon carbide extends service life greatly;
- The theoretical design speed of up to 10,000 rpm guarantees highest reliability at real application speed.



Bearing

- Adopts heavy-duty high-speed load bearings, accurate positioning, high thermal stability;
- High precision, high wear-resistant special sliding bearings, with designed lifetime of up to 100,000 hours;
- Special alloy wear-resistant layer for large load ensures the long-term operation within the range and under any operating conditions.



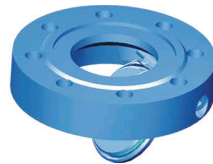
Housing

- The use of special nodular Iron of low expansion coefficient and high-strength ensuring high reliability and working pressure up to 6.3MPa;
- Circular container structure can withstand high pressure;
- Integrated high-pressure oil injection system facilitating the installation and ensuring the reliable and stable mechanical performance;
- Small machine body with compact structure.



VI(Interior volume specific ratio)

With VI(Interior volume specific ratio) stepless regulation function, ensuring high-efficiency operation under various conditions.

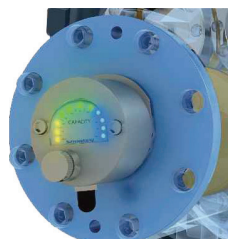


Check valve

Built-in suction check valves with low resistance to prevent refrigerant oil backflow during downtime.



Energy regulation



- Patented energy regulation mechanism;
- 10% - 100% stepless energy regulation and intelligent controller for accurate position and rapid response;
- Loading adjustment on demand, which can save energy up to 35% under part load;
- world unique explosion-proof device for energy control slide valve

Introduction

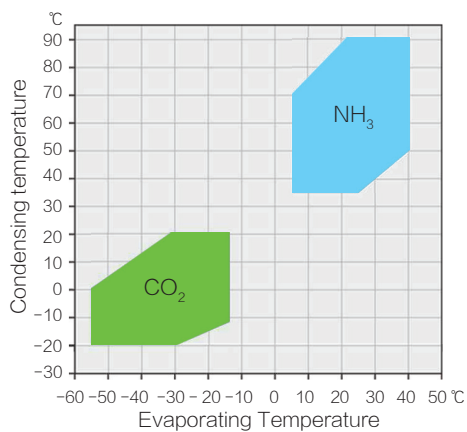
Snowman SRM open-type high-pressure screw compressors offer 16 models in 7 series. The displacement volume is 125–2,770m³/h at 2,960rpm, and the design pressure is 6.3MPa. The SRH series employs R717 for high-temperature heat-pumps as well as to cool R744 (CO₂) as a re-circulating cooling medium for medium temperature applications with multiple cooling points. With R744 and R717 as refrigerants cascade and booster systems can be realized for low temperature applications with direct expansion.

Application

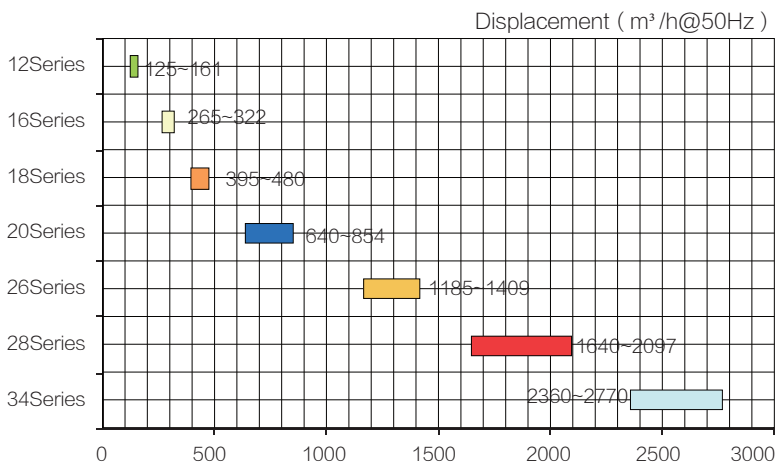
The compressor can be widely applied in the petrochemical industry, food processing and freezing industry and in district heating/cooling fields.



Application scope



Displacement comparison table

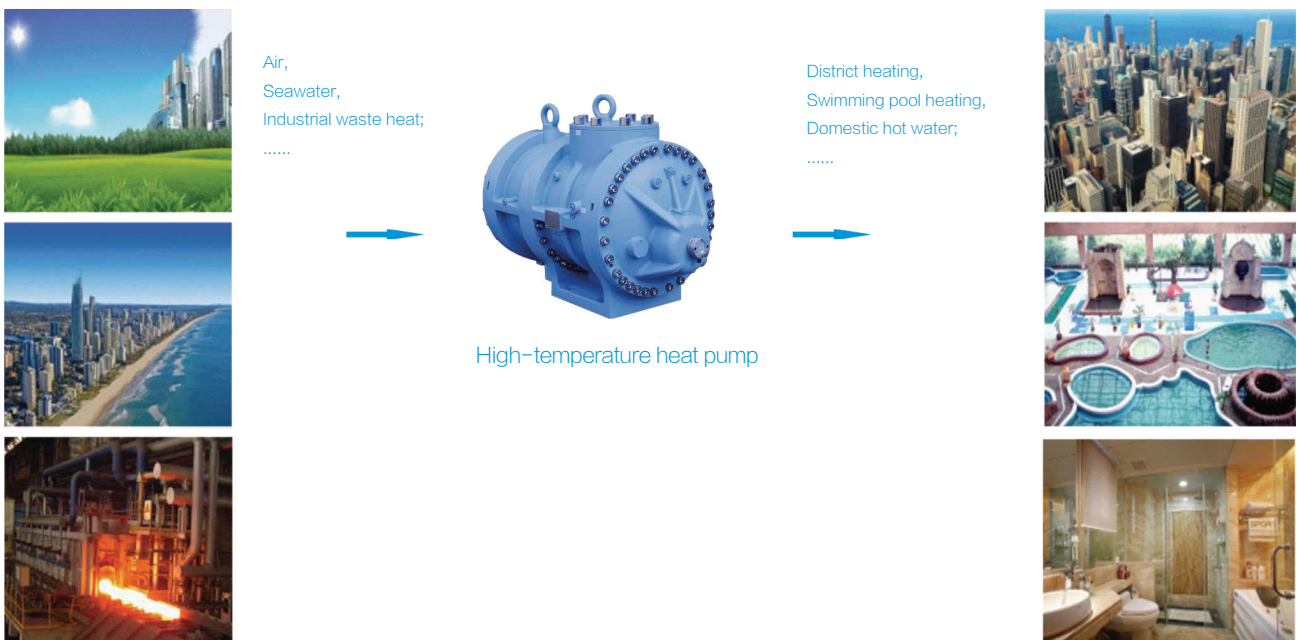


Typical applications

High-temperature ammonia heat pump

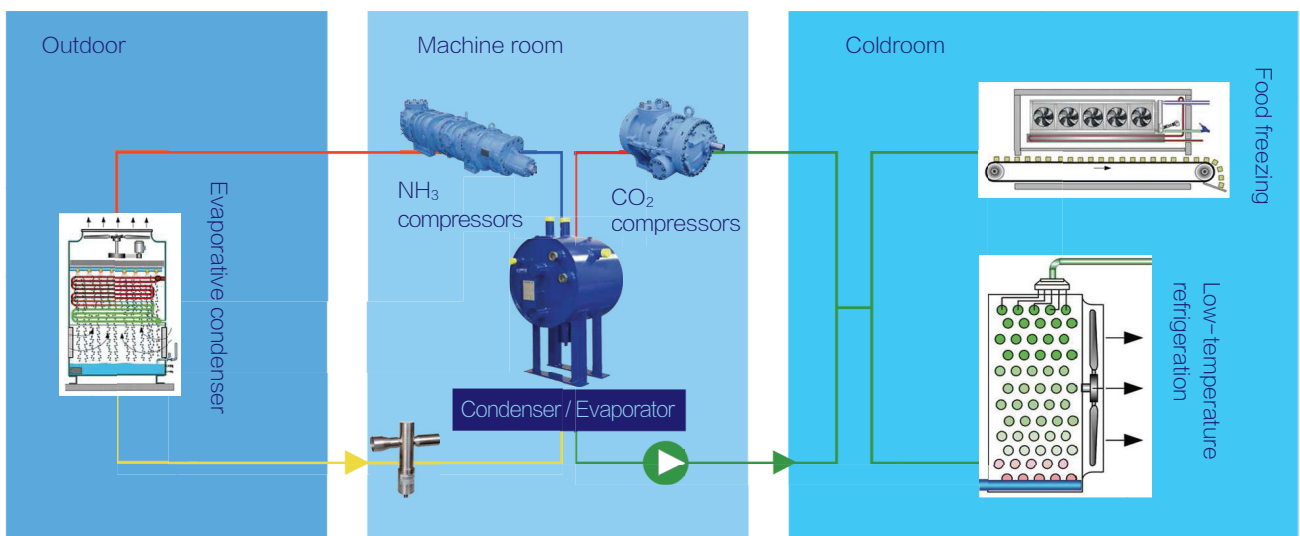
The High-temperature ammonia heat pump can utilize low-grade surface and thermal water from wells. Heat from industrial or residential processes which otherwise would be wasted can be taken as heat source and be converted by the heat pump into high grade water for heating and process purposes of up to 90 deg C.

Ammonia as a natural refrigerant is very energy efficient and at the same time not contributing to global warming, thus a contribution to curb global warming.



NH₃/CO₂ cascade refrigeration system

As the high-temperature refrigerant is NH₃ and the low-temperature refrigerant is CO₂, the NH₃/CO₂ cascade refrigeration system is energy efficient and environmentally friendly. In combining the excellent thermal properties of NH₃ for high/medium temperatures and CO₂ for low temperatures we achieve a reliable system with highest COP for low temperature refrigeration applications.



SRH compressor performance data list

NH ₃		Heating capacity [kW]							
		SRH 12S							
		Pe(bar)	6.15	7.29	8.57	10.03	11.67	13.51	15.55
Pc(bar)	Tc	Te	10	15	20	25	30	35	40
20.34	50		167.5	200.5	236.2	276.8	321.7	371.1	422.2
26.16	60		155.6	186.7	222.1	262.1	306.7	356.2	410.8
29.49	65		149.2	179.6	214.3	253.5	297.7	346.8	401.3
33.13	70		142.6	172.0	205.8	244.3	287.6	336.1	390.1
37.10	75		135.7	164.1	196.8	234.1	276.5	324.1	377.3
41.42	80		-	155.6	187.1	223.2	264.4	310.8	362.8
46.10	85		-	-	176.8	211.5	251.2	295.9	346.5
51.17	90		-	-	-	198.8	236.8	279.9	328.5

CO ₂		Cooling capacity [kW]						
		SRH 12S						
		Pe(bar)	19.70	26.49	34.85	45.02	50.87	57.29
Pc(bar)	Tc	Te	-20	-10	0	10	15	20
5.54	-55		126.0	114.5	103.3	91.2	84.1	76.5
6.82	-50		157.3	141.6	127.8	113.0	104.3	94.8
8.32	-45		190.6	175.4	158.4	140.2	129.5	117.8
10.04	-40		231.5	210.8	190.4	168.6	155.8	141.9
12.02	-35		279.0	254.1	229.7	203.5	188.1	171.3
14.28	-30		334.1	304.3	275.1	243.9	225.4	205.4
16.83	-25		397.6	362.2	327.5	290.4	268.4	244.6
19.70	-20		-	428.8	387.7	343.7	317.7	289.6

NH ₃		Heating capacity [kW]							
		SRH 12M							
		Pe(bar)	6.15	7.29	8.57	10.03	11.67	13.51	15.55
Pc(bar)	Tc	Te	10	15	20	25	30	35	40
20.34	50		213.6	256.5	302.8	355.5	413.9	478.0	544.4
26.16	60		198.2	238.5	284.6	336.4	394.5	458.8	529.6
29.49	65		189.9	229.3	274.4	325.3	382.7	446.5	517.2
33.13	70		181.3	219.5	263.4	313.4	369.6	432.6	502.7
37.10	75		172.4	209.2	251.6	300.2	355.2	417.0	486.1
41.42	80		-	198.2	239.1	286.0	339.5	399.7	467.2
46.10	85		-	-	225.7	270.8	322.3	380.4	446.1
51.17	90		-	-	-	254.3	303.6	359.6	422.7

CO ₂		Cooling capacity [kW]						
		SRH 12M						
		Pe(bar)	19.70	26.49	34.85	45.02	50.87	57.29
Pc(bar)	Tc	Te	-20	-10	0	10	15	20
5.54	-55		165.2	150.2	135.4	119.7	110.4	100.3
6.82	-50		206.4	185.7	167.6	148.2	136.8	124.4
8.32	-45		250.0	230.0	207.7	183.9	169.8	154.5
10.04	-40		303.6	276.4	249.7	221.2	204.3	186.0
12.02	-35		365.9	333.3	301.2	266.9	246.7	224.7
14.28	-30		438.1	399.1	360.8	319.9	295.7	269.4
16.83	-25		521.4	475.1	429.5	380.8	352.0	320.8
19.70	-20		-	562.4	508.4	450.7	416.7	379.8

SRH compressor performance data list

NH ₃		Heating capacity [kW]						
		SRH 16S						
		Pe(bar)	6.15	7.29	8.57	10.03	11.67	13.51
Pc(bar)	Tc / Te	10	15	20	25	30	35	40
20.34	50	364.3	435.9	513.0	600.9	698.2	805.0	915.6
26.16	60	338.7	405.9	482.7	569.1	665.8	772.9	890.9
29.49	65	324.9	390.6	465.7	550.6	646.2	752.5	870.4
33.13	70	310.5	374.2	447.4	530.6	624.4	729.4	846.2
37.10	75	295.6	357.0	427.7	508.6	600.4	703.3	818.4
41.42	80	-	338.7	406.8	485.0	574.2	674.5	787.0
46.10	85	-	-	384.6	459.7	545.5	642.4	751.9
51.17	90	-	-	-	432.2	514.3	607.6	712.8

CO ₂		Cooling capacity [kW]					
		SRH 16S					
		Pe(bar)	19.70	26.49	34.85	45.02	50.87
Pc(bar)	Tc / Te	-20	-10	0	10	15	20
5.54	-55	271.5	246.9	222.6	196.7	181.4	164.8
6.82	-50	339.2	305.2	275.4	243.6	224.8	204.4
8.32	-45	410.9	378.1	341.4	302.2	279.1	254.0
10.04	-40	499.0	454.4	410.4	363.6	335.8	305.8
12.02	-35	601.5	547.8	495.1	438.8	405.5	369.4
14.28	-30	720.1	656.1	593.1	525.8	486.0	442.8
16.83	-25	857.0	780.9	706.0	626.0	578.7	527.4
19.70	-20	-	924.4	835.7	740.9	684.9	624.2

NH ₃		Heating capacity [kW]						
		SRH 16M						
		Pe(bar)	6.15	7.29	8.57	10.03	11.67	13.51
Pc(bar)	Tc / Te	10	15	20	25	30	35	40
20.34	50	450.4	537.7	631.7	738.9	857.5	987.8	1122.7
26.16	60	419.1	501.1	594.7	700.1	818.0	948.7	1092.6
29.49	65	402.3	482.4	574.0	677.5	794.1	923.8	1067.5
33.13	70	384.8	462.4	551.7	653.2	767.5	895.6	1038.1
37.10	75	366.6	441.5	527.7	626.4	738.3	863.8	1004.2
41.42	80	-	419.2	502.2	597.6	706.3	828.7	965.9
46.10	85	-	-	475.1	566.7	671.3	789.5	923.0
51.17	90	-	-	-	533.2	633.3	747.1	875.4

CO ₂		Cooling capacity [kW]					
		SRH 16M					
		Pe(bar)	19.70	26.49	34.85	45.02	50.87
Pc(bar)	Tc / Te	-20	-10	0	10	15	20
5.54	-55	330.4	300.4	270.8	239.3	220.7	200.5
6.82	-50	412.7	371.4	335.1	296.4	273.5	248.7
8.32	-45	499.9	460.0	415.4	367.7	339.5	309.0
10.04	-40	607.1	552.8	499.4	442.4	408.6	372.1
12.02	-35	731.8	666.6	602.4	533.9	493.3	449.4
14.28	-30	876.2	798.3	721.6	639.7	591.3	538.8
16.83	-25	1042.8	950.1	859.0	761.6	704.1	641.7
19.70	-20	-	1124.7	1016.8	901.5	833.4	759.5

SRH compressor performance data list

NH ₃		Heating capacity [kW]						
		SRH 18S						
		Pe(bar)	6.15	7.29	8.57	10.03	11.67	13.51
Pc(bar)	Tc / Te	10	15	20	25	30	35	40
20.34	50	554.8	659.9	778.1	909.9	1055.3	1215.1	1380.2
26.16	60	516.4	618.1	733.7	863.7	1008.9	1169.9	1346.7
29.49	65	495.9	595.3	708.6	836.5	980.3	1140.3	1317.1
33.13	70	474.5	570.9	681.2	806.7	948.3	1106.3	1281.8
37.10	75	452.2	545.0	652.0	774.0	912.5	1067.8	1240.8
41.42	80	-	517.6	620.8	738.9	872.9	1024.7	1194.1
46.10	85	-	-	587.0	700.6	830.3	976.8	1141.7
51.17	90	-	-	-	659.4	783.3	924.4	1083.8

CO ₂		Cooling capacity [kW]						
		SRH 18S						
		Pe(bar)	19.70	26.49	34.85	45.02	50.87	57.29
Pc(bar)	Tc / Te	-20	-10	0	10	15	20	
5.54	-55	404.7	368.0	331.8	293.2	270.4	245.7	
6.82	-50	505.6	455.0	410.5	363.1	335.1	304.7	
8.32	-45	612.4	563.5	508.8	450.4	415.9	378.5	
10.04	-40	743.8	677.2	611.8	541.9	500.6	455.8	
12.02	-35	896.5	816.6	737.9	654.0	604.3	550.5	
14.28	-30	1073.4	977.9	883.9	783.6	724.3	660.1	
16.83	-25	1277.4	1163.9	1052.2	933.0	862.5	786.1	
19.70	-20	-	1377.8	1245.6	1104.3	1020.9	930.4	

NH ₃		Heating capacity [kW]						
		SRH 18M						
		Pe(bar)	6.15	7.29	8.57	10.03	11.67	13.51
Pc(bar)	Tc / Te	10	15	20	25	30	35	40
20.34	50	672.0	798.7	941.1	1099.9	1275.1	1467.6	1666.5
26.16	60	625.8	748.3	887.6	1044.2	1219.2	1413.1	1626.2
29.49	65	601.1	720.9	857.3	1011.5	1184.7	1377.5	1590.5
33.13	70	575.3	691.4	824.3	975.5	1146.1	1336.5	1548.0
37.10	75	548.4	660.2	789.1	936.1	1103.0	1290.1	1498.5
41.42	80	-	627.2	751.6	893.8	1055.3	1238.2	1442.3
46.10	85	-	-	710.9	847.7	1004.0	1180.5	1379.2
51.17	90	-	-	-	798.1	947.4	1117.4	1309.4

CO ₂		Cooling capacity [kW]						
		SRH 18M						
		Pe(bar)	19.70	26.49	34.85	45.02	50.87	57.29
Pc(bar)	Tc / Te	-20	-10	0	10	15	20	
5.54	-55	503.2	457.5	412.6	364.6	336.3	305.6	
6.82	-50	628.4	565.7	510.5	451.6	416.8	379.0	
8.32	-45	761.3	700.4	632.5	560.0	517.2	470.8	
10.04	-40	924.4	841.9	760.6	673.8	622.5	566.9	
12.02	-35	1114.2	1015.0	917.3	813.0	751.4	684.6	
14.28	-30	1333.9	1215.4	1098.8	974.2	900.6	820.8	
16.83	-25	1587.3	1446.6	1307.9	1159.7	1072.3	977.4	
19.70	-20	-	1712.2	1548.0	1372.6	1269.1	1156.7	

SRH compressor performance data list

NH ₃		Heating capacity [kW]						
		SRH 20S						
		Pe(bar)	6.15	7.29	8.57	10.03	11.67	13.51
Pc(bar)	Tc / Te	10	15	20	25	30	35	40
20.34	50	903.5	1073.3	1264.1	1476.9	1711.6	1969.6	2236.1
26.16	60	841.6	1005.7	1192.4	1402.2	1636.7	1896.6	2182.1
29.49	65	808.5	969.0	1151.8	1358.4	1590.5	1848.9	2134.3
33.13	70	773.9	929.5	1107.6	1310.2	1538.8	1793.9	2077.3
37.10	75	737.9	887.7	1060.4	1257.4	1481.0	1731.7	2011.0
41.42	80	-	843.4	1010.1	1200.7	1417.1	1662.2	1935.7
46.10	85	-	-	955.6	1138.9	1348.4	1584.9	1851.1
51.17	90	-	-	-	1072.5	1272.5	1500.3	1757.6

CO ₂		Cooling capacity [kW]					
		SRH 20S					
		Pe(bar)	19.70	26.49	34.85	45.02	50.87
Pc(bar)	Tc / Te	-20	-10	0	10	15	20
5.54	-55	657.7	597.9	539.2	476.4	439.4	399.2
6.82	-50	821.6	739.3	667.1	590.1	544.5	495.2
8.32	-45	995.2	915.7	826.8	732.0	675.9	615.1
10.04	-40	1208.6	1100.5	994.1	880.6	813.4	740.7
12.02	-35	1456.8	1326.9	1199.1	1062.7	982.0	894.6
14.28	-30	1744.2	1589.1	1436.4	1273.4	1177.1	1072.6
16.83	-25	2075.8	1891.4	1709.9	1516.1	1401.6	1277.4
19.70	-20	-	2238.9	2024.0	1794.5	1659.0	1511.9

NH ₃		Heating capacity [kW]						
		SRH 20M						
		Pe(bar)	6.15	7.29	8.57	10.03	11.67	13.51
Pc(bar)	Tc / Te	10	15	20	25	30	35	40
20.34	50	1214.7	1442.2	1697.9	1983.0	2297.6	2643.2	3000.4
26.16	60	1131.7	1351.7	1601.8	1883.0	2197.2	2545.4	2928.0
29.49	65	1087.4	1302.5	1547.4	1824.3	2135.3	2481.5	2863.9
33.13	70	1041.0	1249.5	1488.1	1759.6	2066.0	2407.8	2787.6
37.10	75	992.7	1193.5	1424.9	1688.9	1988.6	2324.5	2698.7
41.42	80	-	1134.2	1357.6	1612.9	1902.9	2231.3	2597.8
46.10	85	-	-	1284.5	1530.2	1810.8	2127.7	2484.5
51.17	90	-	-	-	1441.1	1709.2	2014.4	2359.2

CO ₂		Cooling capacity [kW]					
		SRH 20M					
		Pe(bar)	19.70	26.49	34.85	45.02	50.87
Pc(bar)	Tc / Te	-20	-10	0	10	15	20
5.54	-55	879.7	799.7	721.1	637.2	587.7	533.9
6.82	-50	1098.9	988.9	892.3	789.2	728.3	662.3
8.32	-45	1331.1	1224.7	1105.9	979.0	904.0	822.8
10.04	-40	1616.5	1471.9	1329.6	1177.8	1088.0	990.7
12.02	-35	1948.5	1774.8	1603.9	1421.4	1313.5	1196.6
14.28	-30	2332.9	2125.4	1921.2	1703.2	1574.3	1434.6
16.83	-25	2776.4	2529.8	2287.0	2027.8	1874.6	1708.5
19.70	-20	-	2994.6	2707.2	2400.2	2218.9	2022.2

SRH compressor performance data list

NH ₃		Heating capacity [kW]						
		SRH 26S						
Pe(bar)		6.15	7.29	8.57	10.03	11.67	13.51	15.55
Pc(bar)	Tc / Te	10	15	20	25	30	35	40
20.34	50	1674.3	1989.8	2344.3	2739.8	3176.0	3655.3	4150.6
26.16	60	1559.2	1864.3	2211.1	2601.1	3036.8	3519.6	4050.2
29.49	65	1497.7	1796.0	2135.7	2519.6	2950.9	3431.0	3961.3
33.13	70	1433.5	1722.6	2053.5	2430.0	2854.8	3328.9	3855.5
37.10	75	1366.5	1644.9	1965.9	2331.9	2747.5	3213.3	3732.3
41.42	80	-	1562.7	1872.5	2226.6	2628.7	3084.1	3592.3
46.10	85	-	-	1771.1	2111.8	2501.0	2940.4	3435.2
51.17	90	-	-	-	1988.3	2360.0	2783.3	3261.4

CO ₂		Cooling capacity [kW]					
		SRH 26S					
Pe(bar)		19.70	26.49	34.85	45.02	50.87	57.29
Pc(bar)	Tc / Te	-20	-10	0	10	15	20
5.54	-55	1218.3	1107.6	998.8	882.6	813.9	739.5
6.82	-50	1521.9	1369.6	1235.8	1093.1	1008.7	917.3
8.32	-45	1843.6	1696.2	1531.6	1355.9	1252.1	1139.5
10.04	-40	2238.9	2038.5	1841.5	1631.2	1506.8	1372.0
12.02	-35	2698.6	2458.0	2221.3	1968.6	1819.2	1657.2
14.28	-30	3231.0	2943.7	2660.9	2358.9	2180.4	1986.9
16.83	-25	3845.2	3503.7	3167.5	2808.5	2596.3	2366.2
19.70	-20	-	4147.5	3749.4	3324.3	3073.1	2800.7

NH ₃		Heating capacity [kW]						
		SRH 26M						
Pe(bar)		6.15	7.29	8.57	10.03	11.67	13.51	15.55
Pc(bar)	Tc / Te	10	15	20	25	30	35	40
20.34	50	1983.7	2356.2	2774.8	3241.7	3756.8	4322.7	4907.5
26.16	60	1847.9	2208.0	2617.5	3077.9	3592.4	4162.5	4789.0
29.49	65	1775.2	2127.4	2528.5	2981.8	3491.0	4057.9	4684.1
33.13	70	1699.4	2040.7	2431.4	2876.0	3377.5	3937.3	4559.1
37.10	75	1620.3	1949.0	2328.0	2760.1	3250.8	3800.9	4413.6
41.42	80	-	1852.0	2217.7	2635.8	3110.6	3648.3	4248.4
46.10	85	-	-	2098.0	2500.2	2959.8	3478.7	4062.8
51.17	90	-	-	-	2354.4	2793.4	3293.2	3857.6

CO ₂		Cooling capacity [kW]					
		SRH 26M					
Pe(bar)		19.70	26.49	34.85	45.02	50.87	57.29
Pc(bar)	Tc / Te	-20	-10	0	10	15	20
5.54	-55	1454.8	1322.6	1192.6	1053.8	971.9	883.0
6.82	-50	1817.2	1635.3	1475.6	1305.2	1204.5	1095.3
8.32	-45	2201.3	2025.4	1828.9	1619.0	1495.0	1360.6
10.04	-40	2673.3	2434.2	2198.9	1947.8	1799.3	1638.3
12.02	-35	3222.4	2935.1	2652.4	2350.6	2172.2	1978.8
14.28	-30	3858.1	3514.9	3177.2	2816.7	2603.6	2372.5
16.83	-25	4591.4	4183.6	3782.2	3353.5	3100.2	2825.4
19.70	-20	-	4952.4	4477.0	3969.4	3669.5	3344.3

SRH compressor performance data list

NH ₃		Heating capacity [kW]						
		SRH 28S						
		Pe(bar)	6.15	7.29	8.57	10.03	11.67	13.51
Pc(bar)	Tc / Te	10	15	20	25	30	35	40
20.34	50	2322.9	2757.5	3246.0	3790.8	4391.8	5052.1	5734.4
26.16	60	2164.4	2584.6	3062.5	3599.7	4200.0	4865.2	5596.2
29.49	65	2079.7	2490.7	2958.6	3487.5	4081.7	4743.1	5473.7
33.13	70	1991.2	2389.5	2845.4	3364.0	3949.3	4602.4	5327.9
37.10	75	1898.9	2282.4	2724.6	3228.9	3801.4	4443.2	5158.1
41.42	80	-	2169.2	2596.0	3083.8	3637.8	4265.2	4965.3
46.10	85	-	-	2456.4	2925.6	3461.8	4067.3	4748.9
51.17	90	-	-	-	2755.5	3267.6	3850.8	4509.4

CO ₂		Cooling capacity [kW]					
		SRH 28S					
		Pe(bar)	19.70	26.49	34.85	45.02	50.87
Pc(bar)	Tc / Te	-20	-10	0	10	15	20
5.54	-55	1688.1	1534.7	1383.9	1222.9	1127.7	1024.6
6.82	-50	2108.7	1897.6	1712.3	1514.6	1397.7	1271.0
8.32	-45	2554.4	2350.3	2122.2	1878.7	1734.9	1578.9
10.04	-40	3102.1	2824.6	2551.6	2260.2	2087.9	1901.1
12.02	-35	3739.2	3405.8	3077.8	2727.7	2520.6	2296.2
14.28	-30	4476.9	4078.7	3686.9	3268.5	3021.2	2753.1
16.83	-25	5327.9	4854.7	4388.8	3891.4	3597.4	3278.6
19.70	-20	-	5746.7	5195.1	4606.1	4258.1	3880.7

NH ₃		Heating capacity [kW]						
		SRH 28M						
		Pe(bar)	6.15	7.29	8.57	10.03	11.67	13.51
Pc(bar)	Tc / Te	10	15	20	25	30	35	40
20.34	50	2985.9	3543.3	4169.8	4868.4	5639.1	6485.9	7360.9
26.16	60	2782.7	3321.6	3934.4	4623.3	5393.2	6246.2	7183.7
29.49	65	2674.0	3201.0	3801.1	4479.5	5241.4	6089.6	7026.6
33.13	70	2560.5	3071.3	3655.9	4321.1	5071.6	5909.2	6839.6
37.10	75	2442.2	2934.0	3501.1	4147.8	4882.0	5705.1	6621.9
41.42	80	-	2788.8	3336.1	3961.7	4672.1	5476.8	6374.6
46.10	85	-	-	3157.1	3758.9	4446.5	5222.9	6097.1
51.17	90	-	-	-	3540.7	4197.5	4945.3	5790.0

CO ₂		Cooling capacity [kW]					
		SRH 28M					
		Pe(bar)	19.70	26.49	34.85	45.02	50.87
Pc(bar)	Tc / Te	-20	-10	0	10	15	20
5.54	-55	2161.0	1964.6	1771.5	1565.4	1443.6	1311.7
6.82	-50	2699.4	2429.2	2192.0	1938.8	1789.2	1627.0
8.32	-45	3270.0	3008.7	2716.7	2405.0	2220.8	2021.2
10.04	-40	3971.1	3615.8	3266.3	2893.3	2672.7	2433.6
12.02	-35	4786.7	4359.9	3940.0	3491.8	3226.7	2939.4
14.28	-30	5731.0	5221.2	4719.6	4184.1	3867.5	3524.3
16.83	-25	6820.4	6214.6	5618.2	4981.5	4605.1	4197.1
19.70	-20	-	7356.5	6650.4	5896.4	5450.8	4967.7

SRH compressor performance data list

NH ₃	Heating capacity [kW]							
	SRH 34S							
	Pe(bar)	6.15	7.29	8.57	10.03	11.67	13.51	15.55
Pc(bar)	Tc / Te	10	15	20	25	30	35	40
20.34	50	3354.6	3985.5	4694.7	5485.5	6358.0	7316.6	8307.2
26.16	60	3124.5	3734.5	4428.2	5208.1	6079.6	7045.2	8106.5
29.49	65	3001.5	3598.1	4277.4	5045.3	5907.8	6868.0	7928.7
33.13	70	2873.0	3451.2	4113.0	4866.0	5715.6	6663.8	7717.0
37.10	75	2739.0	3295.8	3937.7	4669.8	5500.9	6432.7	7470.5
41.42	80	-	3131.5	3751.0	4459.1	5263.4	6174.2	7190.7
46.10	85	-	-	3548.3	4229.5	5007.9	5886.9	6876.4
51.17	90	-	-	-	3982.5	4726.1	5572.7	6528.8

CO ₂	Cooling capacity [kW]							
	SRH 34S							
	Pe(bar)	19.70	26.49	34.85	45.02	50.87	57.29	
Pc(bar)	Tc / Te	-20	-10	0	10	15	20	
5.54	-55	2432.5	2211.5	1994.1	1762.1	1625.0	1476.5	
6.82	-50	3038.6	2734.5	2467.4	2182.4	2014.0	1831.4	
8.32	-45	3680.9	3386.7	3058.1	2707.2	2499.9	2275.1	
10.04	-40	4470.1	4070.2	3676.8	3256.8	3008.6	2739.4	
12.02	-35	5388.1	4907.7	4435.1	3930.5	3632.2	3308.8	
14.28	-30	6451.1	5877.3	5312.7	4709.9	4353.5	3967.1	
16.83	-25	7677.4	6995.5	6324.2	5607.4	5183.8	4724.5	
19.70	-20	-	8280.9	7486.1	6637.3	6135.8	5592.0	

NH ₃	Heating capacity [kW]							
	SRH 34M							
	Pe(bar)	6.15	7.29	8.57	10.03	11.67	13.51	15.55
Pc(bar)	Tc / Te	10	15	20	25	30	35	40
20.34	50	3914.8	4653.1	5482.8	6408.0	7428.9	8550.5	9709.4
26.16	60	3645.6	4359.4	5171.1	6083.5	7103.2	8232.9	9474.6
29.49	65	3501.7	4199.8	4994.5	5893.0	6902.1	8025.5	9266.6
33.13	70	3351.4	4027.9	4802.2	5683.2	6677.2	7786.6	9018.9
37.10	75	3194.7	3846.1	4597.1	5453.6	6426.1	7516.3	8730.5
41.42	80	-	3653.8	4378.6	5207.2	6148.2	7213.9	8403.1
46.10	85	-	-	4141.5	4938.6	5849.3	6877.7	8035.4
51.17	90	-	-	-	4649.6	5519.5	6510.0	7628.7

CO ₂	Cooling capacity [kW]							
	SRH 34M							
	Pe(bar)	19.70	26.49	34.85	45.02	50.87	57.29	
Pc(bar)	Tc / Te	-20	-10	0	10	15	20	
5.54	-55	2854.8	2595.4	2340.3	2068.0	1907.2	1732.8	
6.82	-50	3566.1	3209.2	2895.8	2561.3	2363.6	2149.4	
8.32	-45	4319.9	3974.6	3589.0	3177.2	2933.9	2670.1	
10.04	-40	5246.1	4776.8	4315.1	3822.2	3530.8	3215.0	
12.02	-35	6323.5	5759.7	5205.0	4612.8	4262.7	3883.2	
14.28	-30	7571.0	6897.6	6235.0	5527.5	5109.2	4655.8	
16.83	-25	9010.2	8209.9	7422.1	6580.9	6083.7	5544.6	
19.70	-20	-	9718.5	8785.7	7789.5	7200.9	6562.7	