

Type: Semi-hermetic twin screw compressors

Producer: Frascold

Series: R-TSL

Model: R-TSL1-70 240 Y

Technical data

Nominal motor power [kW/HP]:	52 / 70
Displacement [m ³ /h]:	240
Capacity control [%]:	100 - 75 - 50
RPM [min ⁻¹]:	2960
Weight net [kg]:	316
Weight gross [kg]:	348

Electrical data

	<u>PWS</u>
Power supply [V/~/Hz]:	400/3/50
Locked rotor current [A]:	283
Locked rotor current (D.O.L. - $\Delta\Delta$) [A]:	464
Max. operating current [A]:	126
Max. power input [kW]:	76

Connections

	<u>millimeters</u>	<u>inches</u>
Suction line:	80	3 1/8
Discharge line:	54	2 1/8

R22

Cooling capacity [W]

t _c \ t _e	-10	-15	-20	-25	-30	-35	-40	-45	-50
30	149 920	123 490	100 730	81 240	64 710	50 770	39 050	29 330	21 340
40	135 350	110 990	90 040	72 120	56 950	44 160	33 440	24 550	-
50	119 880	97 710	78 660	62 410	48 660	37 100	27 420	-	-
55	112 780	91 630	73 480	58 010	44 930	33 950	24 760	-	-

Power input [kW]

t _c \ t _e	-10	-15	-20	-25	-30	-35	-40	-45	-50
30	47.88	44.57	41.08	37.55	34.20	31.22	28.76	27.17	27.29
40	53.65	49.81	45.94	42.20	38.80	35.97	33.99	33.69	-
50	61.38	56.82	52.49	48.48	45.09	42.72	42.18	-	-
55	68.70	63.28	58.34	53.96	50.53	48.63	49.86	-	-

Current [A]

t _c \ t _e	-10	-15	-20	-25	-30	-35	-40	-45	-50
30	81.60	76.70	71.60	66.50	61.70	57.00	53.00	50.60	50.80
40	90.10	84.40	78.70	73.20	68.30	64.20	61.40	61.00	-
50	101.50	94.80	88.40	82.40	77.40	74.00	73.20	-	-
55	112.60	104.40	97.00	90.50	85.50	82.70	84.50	-	-

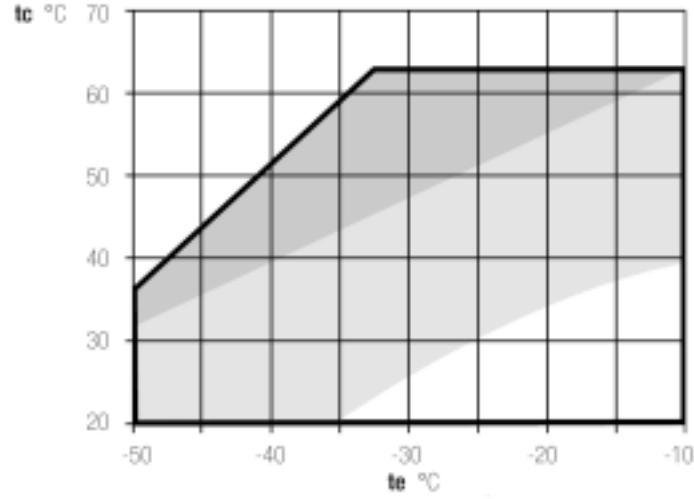
Mass flow [kg/h]

t _c \ t _e	-10	-15	-20	-25	-30	-35	-40	-45	-50
30	3 131	2 614	2 162	1 769	1 430	1 139	890	680	503
40	3 057	2 543	2 094	1 704	1 367	1 078	830	621	-
50	2 962	2 452	2 007	1 620	1 285	998	752	-	-
55	2 930	2 421	1 975	1 587	1 253	965	718	-	-

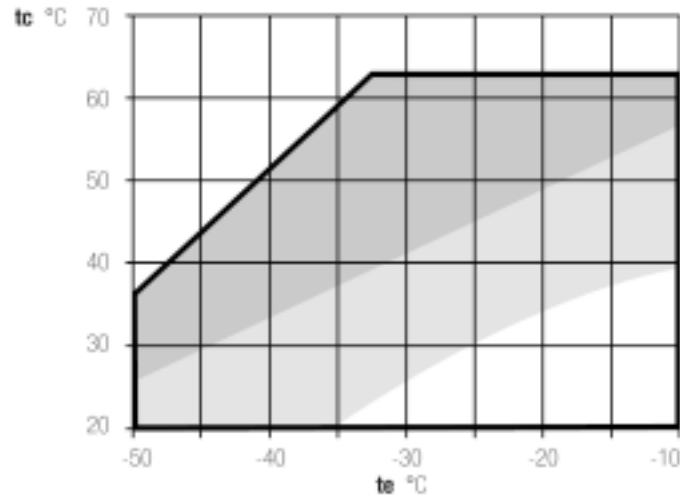
Operating conditions: suction gas overheating 10K, 0K subcooling

Application limits

Full load operation



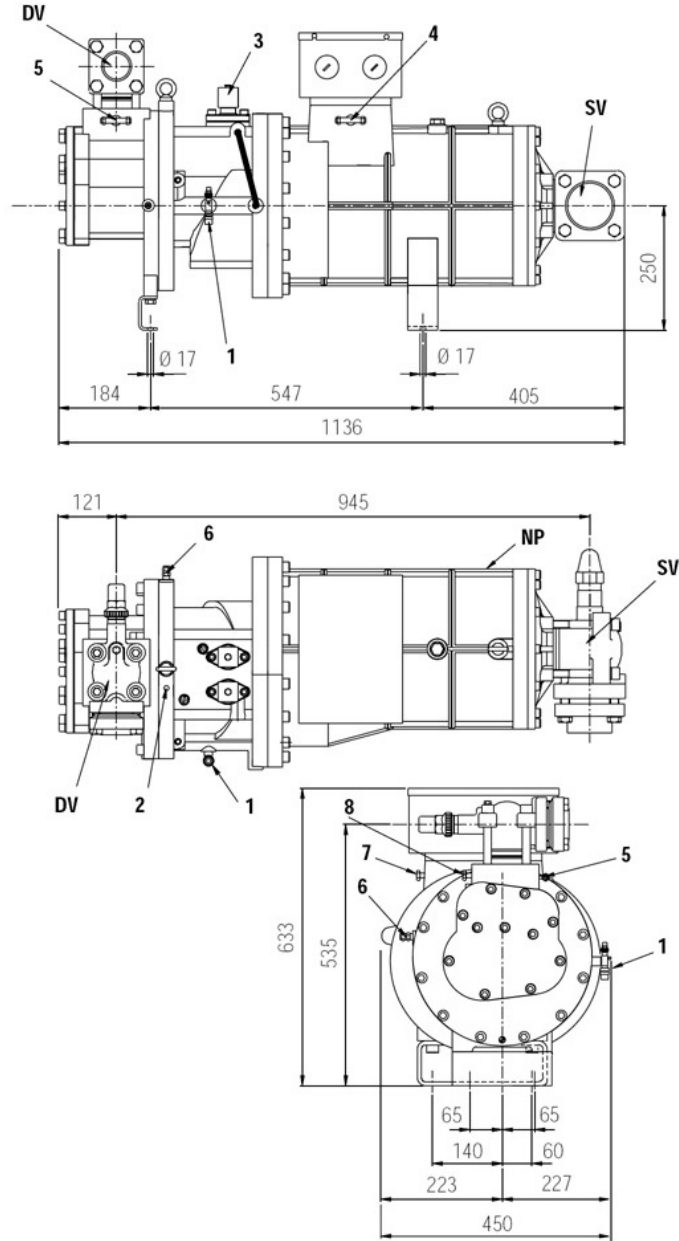
Capacity control



- With oil cooler
- With liquid injection and oil cooler

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]



- 1: connection of oil return valve
 3: capacity control valve
 5: high pressure plug
 7: plug for low pressure connection
 DV: discharge valve
 SV: suction valve

- 2: max. discharge temperature sensor
 4: low pressure plug
 6: liquid injection/economizer conn.
 8: plug for high pressure connection
 NP: name plate

