Type: Semi-hermetic twin screw compressors
Producer: Frascold
Series: R-TSL

Model: R-TSL1-60 210 Y ECO

Technical data

Nominal motor power [kW/HP]:	44,5 / 60
Displacement [m³/h]:	210
Capacity control [%]:	100 - 50
RPM [min^{-1}]:	2960
Weight net [kg]:	290
Weight gross [kg]:	320

Electrical data

	PWS
Power supply [V/~/Hz]:	400/3/50
Locked rotor current [A]:	243
Locked rotor current (D.O.L. - ΔΔ) [A]:	399
Max. operating current [A]:	108
Max. power input [kW]:	65

Connections

	milimeters	inches
Suction line:	80	3 1/8
Discharge line:	54	2 1/8

R404A/R507

Cooling capacity [W]

t_c \ t_e	-20	-25	-30	-35	-40	-45
30	112 340	92 850	76 270	61 550	48 990	37 380
40	102 120	83 840	68 070	54 110	42 180	30 990
50	89 340	73 000	58 900	46 270	-	-
55	87 110	70 770	56 730	-	-	-

Power input [kW]

t_c \ t_e	-20	-25	-30	-35	-40	-45
30	42.70	40.63	38.56	36.35	34.29	32.21
40	51.56	48.74	45.93	42.99	40.26	37.39
50	61.56	58.06	54.78	51.41	-	-
55	68.49	64.11	60.25	-	-	-

Current [A]

t_c \ t_e	-20	-25	-30	-35	-40	-45
30	74.00	71.10	68.30	65.30	62.50	59.80
40	86.80	82.50	78.50	74.40	70.60	66.70
50	102.90	97.10	91.90	86.60	-	-
55	113.40	106.10	99.90	-	-	-

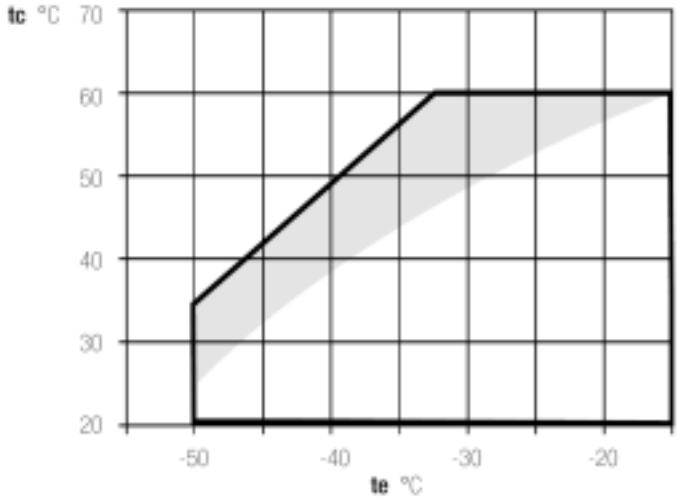
Mass flow [kg/h]

t_c \ t_e	-20	-25	-30	-35	-40	-45
30	2 765	2 274	1 857	1 491	1 182	890
40	2 618	2 132	1 721	1 358	1 051	762
50	2 391	1 934	1 546	1 204	-	-
55	2 345	1 887	1 499	-	-	-

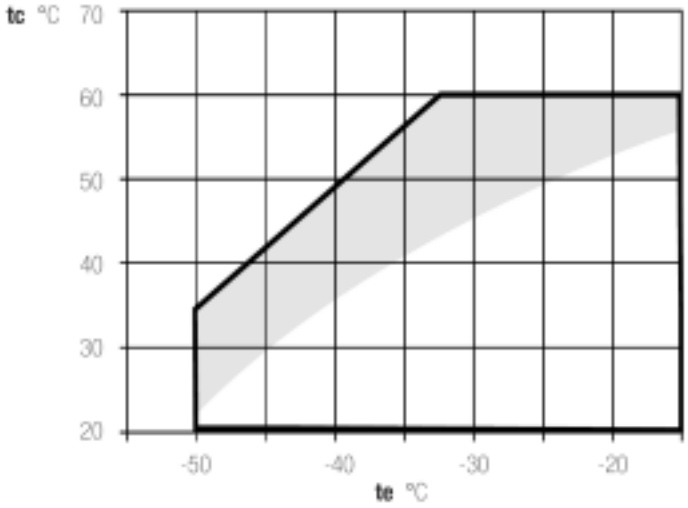
Operating conditions: suction gas overheating 10K, 10K subcooling

Application limits

Full load operation

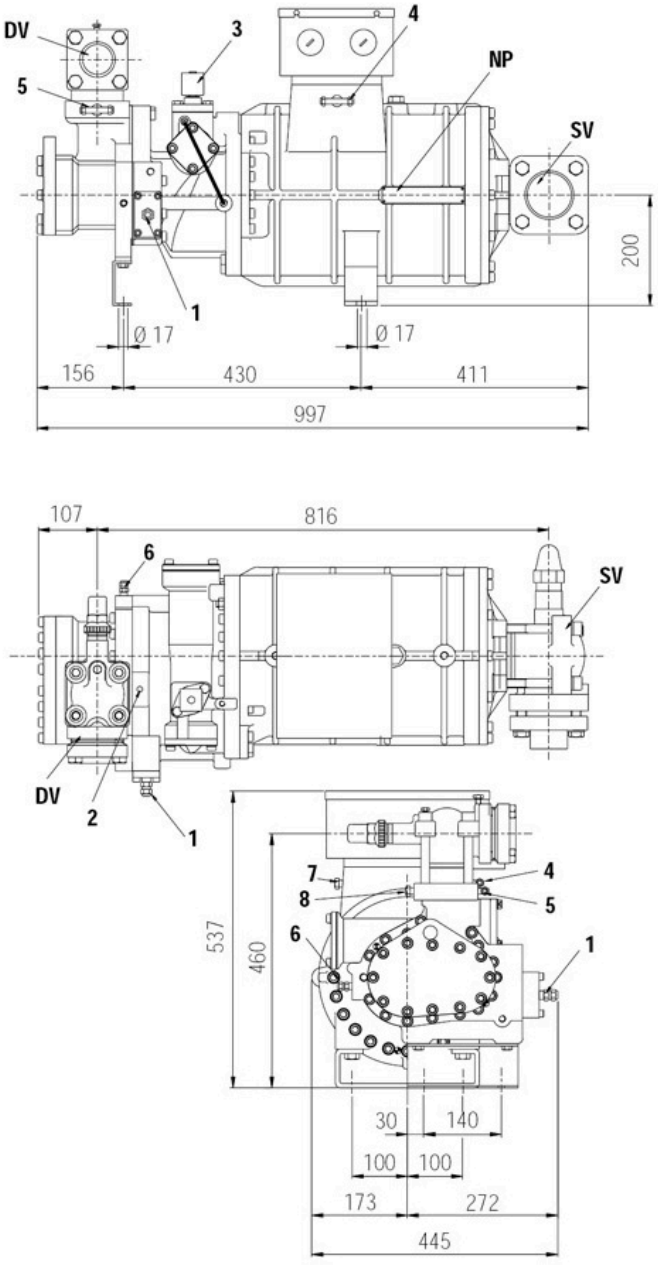


Capacity control



With oil cooler
With liquid injection and oil cooler

t_c - Condensing temperature [ºC]
t_e - Evaporating temperature [ºC]



1: connection of oil return valve
2: max. discharge temperature sensor
3: capacity control valve
4: low pressure plug
5: high pressure plug
6: liquid injection/economizer conn.
7: plug for low pressure connection
8: plug for high pressure connection
DV: discharge valve
NP: name plate
SV: suction valve