

Type: Semi-hermetic piston compressors

Producer: Frascold

Series: Z

Model: Z 40 154 Y

Technical data

Nominal motor power [kW]:	30
Cylinder count:	6
Displacement [m ³ /h]:	154,38
Cylinder capacity [cm ³]:	295,74
RPM [min ⁻¹]:	1450
Weight [kg]:	262
Oil charge [dm ³]:	7,5
Power supply [V/~/Hz]:	220V/3/50Hz \ 400V/3/50Hz

Connections

	<u>milimeters</u>	<u>inches</u>
Suction line:	67	2 5/8"
Discharge line:	42	1 5/8"

R22

Cooling capacity [W]

$t_c \setminus t_e$	0	-5	-10	-15	-20	-25	-30	-35	-40
30	131 410	108 250	88 490	71 710	57 520	45 600	35 680	27 480	20 740
40	119 110	97 820	79 690	64 290	51 310	40 420	31 370	23 920	17 820
45	112 900	92 570	75 260	60 580	48 200	37 830	29 230	22 160	16 380
50	106 630	87 280	70 810	56 850	45 090	35 260	27 110	20 420	-

Operating conditions: suction gas temperature 20°C, 0K subcooling

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

R134a

Cooling capacity [W]

$t_c \setminus t_e$	12.5	7.5	5	0	-5	-10	-15	-20
30	142 890	118 590	107 760	88 400	71 840	57 710	45 740	35 600
40	128 520	106 430	96 570	78 930	63 810	50 910	39 960	30 690
45	121 160	100 200	90 840	74 080	59 710	47 430	37 010	28 170
50	113 690	93 890	85 030	69 170	55 550	43 910	34 020	25 640

Operating conditions: suction gas temperature 20°C, 0K subcooling

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

R404A/R507

Cooling capacity [W]

t_c \ t_e	-5	-10	-15	-20	-25	-30	-35	-40	-45
30	123 620	102 840	84 480	68 750	55 150	43 770	33 930	25 770	18 370
40	107 070	88 780	72 580	58 680	46 650	36 580	27 850	20 610	14 030
45	98 430	81 450	66 400	53 480	42 280	32 900	24 760	18 000	-
50	-	73 470	59 700	47 880	37 610	29 000	21 520	-	-

Operating conditions: suction gas temperature 20°C, 0K subcooling

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

R407C

Cooling capacity [W]

$t_c \setminus t_e$
30
40
45
50

Operating conditions: suction gas temperature 20°C, 0K subcooling

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]



