

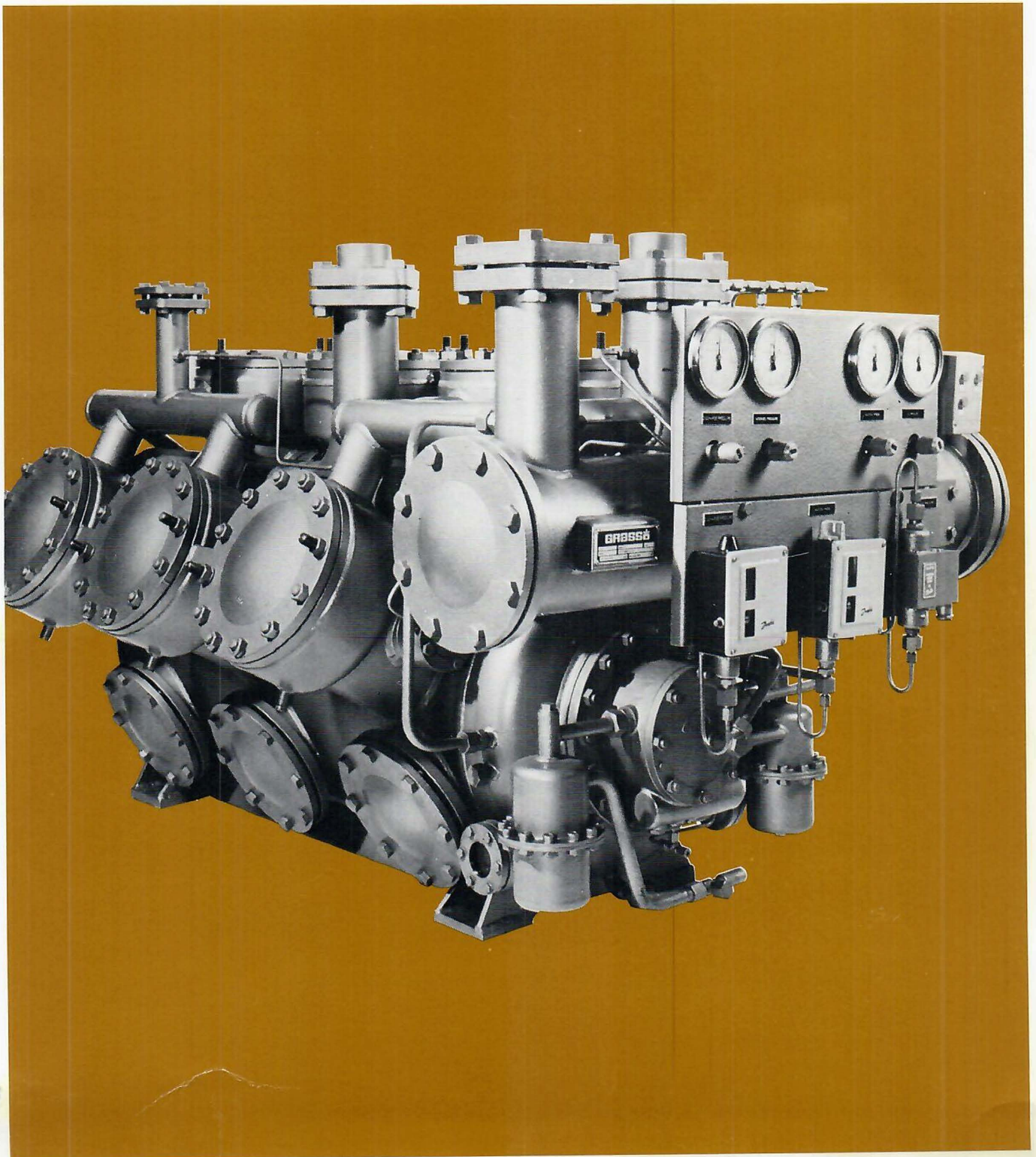
**GRASSO**

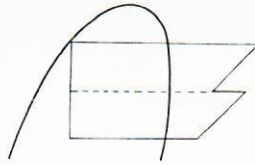
# Refrigeration compressor

# RC 11

Engineering Data

Single-stage, booster, two-stage  
NH<sub>3</sub>, R12, R22, R502





### Two-stage, system A

n = 1000 rpm

↓ t <sub>o</sub> (°C)	↓ Δt <sub>o</sub> (K)	→ t <sub>c</sub> (°C)						
			+20	+25	+30	+35	+40	+45
-25	5	Q <sub>o</sub> (kcal/h)	162 200	156 200	150 000	143 800	137 400	131 000
	15		160 800	155 000	149 100	143 100	137 000	130 800
-	-	t <sub>m</sub> (°C) P <sub>e</sub> (kW)	-2.6	-2.1	-1.6	-1.1	-0.5	+0.2
			71.5	75.4	79.6	84.1	88.8	93.7
-30	5	Q <sub>o</sub> (kcal/h)	131 600	126 600	121 500	116 400	111 100	105 700
	15		130 400	125 600	120 700	115 800	110 700	105 600
-	-	t <sub>m</sub> (°C) P <sub>e</sub> (kW)	-8.0	-7.5	-6.9	-6.3	-5.7	-5.0
			64.0	67.8	71.7	75.8	80.0	84.4
-35	5	Q <sub>o</sub> (kcal/h)	105 700	101 600	97 400	93 200	88 900	84 500
	15		104 700	100 800	96 800	92 700	88 600	84 300
-	-	t <sub>m</sub> (°C) P <sub>e</sub> (kW)	-13.3	-12.7	-12.1	-11.5	-10.7	-10.0
			57.5	60.9	64.4	68.1	71.9	75.7
-40	5	Q <sub>o</sub> (kcal/h)	84 000	80 600	77 200	73 800	70 200	66 700
	15		83 200	80 000	76 700	73 400	70 000	66 500
-	-	t <sub>m</sub> (°C) P <sub>e</sub> (kW)	-18.5	-17.9	-17.1	-16.4	-15.5	-14.7
			51.4	54.5	57.7	61.0	64.2	67.5
-45	5	Q <sub>o</sub> (kcal/h)	66 000	63 300	60 500	57 700	54 900	52 000
	15		65 300	62 800	60 100	57 400	54 700	51 900
-	-	t <sub>m</sub> (°C) P <sub>e</sub> (kW)	-23.7	-23.0	-22.2	-21.4	-20.4	-19.4
			45.8	48.5	51.1	53.8	56.4	59.0
-50	5	Q <sub>o</sub> (kcal/h)	51 200	49 000	46 800	44 600	42 300	40 000
	15		50 700	48 600	46 400	44 300	42 100	39 900
-	-	t <sub>m</sub> (°C) P <sub>e</sub> (kW)	-28.6	-27.8	-26.9	-25.9	-24.9	-23.8
			40.6	42.8	44.9	47.0	48.9	50.7
-55	5	Q <sub>o</sub> (kcal/h)	39 100	37 400	35 600	33 900	32 000	30 200
	15		38 700	37 100	35 400	33 700	31 900	30 100
-	-	t <sub>m</sub> (°C) P <sub>e</sub> (kW)	-33.3	-32.4	-31.4	-30.3	-29.1	-27.9
			35.6	37.2	38.8	40.2	41.4	42.5
-60	5	Q <sub>o</sub> (kcal/h)	29 400	28 000	26 600	25 200	—	—
	15		29 100	27 800	26 400	25 100	—	—
-	-	t <sub>m</sub> (°C) P <sub>e</sub> (kW)	-37.7	-36.7	-35.5	-34.3	—	—
			30.6	31.7	32.6	33.4	—	—