

Reciprocating
Compressor By **itc**



I.T.C. (1993) CO., LTD.

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Reciprocating Compressor

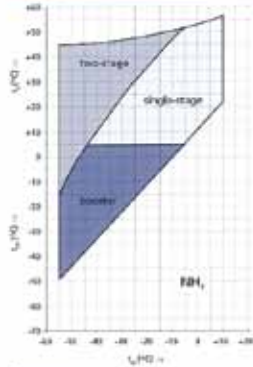
By **itc**



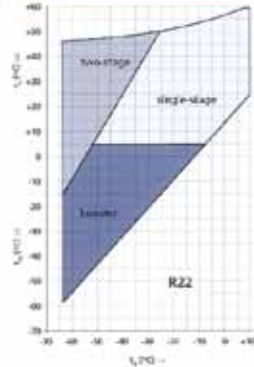
RC12 Series

FIELDS OF APPLICATION

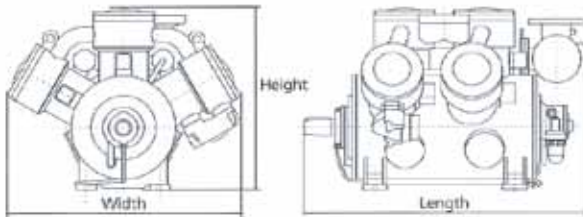
NH₃



R22



DIMENSIONS



Type	Dimensions (mm)			Mass (kg)
	Length	Width	Height	
RC212	987	1077	881	553
RC312	987	1171	931	660
RC2112				
RC412	1317	1077	884	810
RC3112				
RC612	1377	1171	931	1050
RC4212				
RC5112				
RC912	1816	1171	931	1390
RC6312				
RC7212				
RC1212	2206	1171	931	1630
RC8412				
RC9312				
RC10212				

Suction And Discharge Valve

Composite material suction and discharge valve plates ensure high efficiencies and long service life. Optimum valve selection for different conditions.

Increased flow capacity, high robustness of the dynamically loaded component.

Suction Valve Lifting

Hydraulic valve lifting mechanism for individual cylinders.

Lubrication System

The lubrication system consisting of the oil pump, oil filters and oil pressure regulator is a self-contained module without any external piping.

Bearings

High quality low load radial and axial bearings with excellent sliding and running properties ensuring low wear.

Piston/Connecting Rod Assembly and Cylinder Liner

Light metal aluminium alloy piston and connecting rod. Easily removable via the top of each cylinder. Each piston is fitted with three specially coated rings ensuring low wear and low oil carry over.

Rotary Shaft Seal

A perfect gastight oil cooled seal guarantees long service life.

The Welded Steel Crankcase

The unique concept of using welded steel crankcases, which is proven in more than 40,000 Grasso compressors helps to keep discharge temperatures within limits.

Capacities at other conditions or with other refrigerants such as R134a or R404A can easily be calculated with our COMSEL compressor selection programme which is also available on the internet: www.itc-group.co.th

Refrigeration Capacities (kW)

Type	NH ₃		R22	
	-15°C	-5°C	-15°C	-5°C
RC212	118.3	193.0	116.6	178.7
RC312	177.4	289.5	175.0	268.0
RC412	236.5	386.1	233.3	357.4
RC612	354.8	579.1	349.9	536.1
RC912	532.2	868.6	524.9	804.1
RC1212	709.6	1158.2	699.8	1072.2

Type	NH ₃		R22	
	-40°C	-30°C	-40°C	-30°C
RC2112	46.0	77.2	54.8	81.6
RC3112	63.8	106.6	74.0	109.6
RC4212	92.1	154.6	109.8	163.4
RC5112	93.0	-	104.0	-
RC6312	138.1	232.2	164.7	245.1
RC7212	144.0	240.0	165.2	-
RC8412	184.4	309.6	219.7	327.6
RC9312	192.0	320.7	222.8	329.7
RC10212	186.5	-	208.4	-

Condensing temperature = +35°C, Liquid subcooling = 5 K, Suction superheat = 5 K, Intermediate superheat = 6 K, Temperature difference interstage cooler = 10 K

SWEPT VOLUMES [m³/H AT 1000 MIN⁻¹]



**SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.
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