RotoVane Compressor
Model Number and Specification Data

The RotoVane Compressor is available in 3 basic sizes and two different model types. These are further sub divided into various swept volumes (see table) giving incremental increases in capacity.
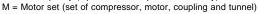
Nom. Size	TRANSPORT	R-SERIES	Swept Vol
450	RT450A	-	80.4
	RT450B	-	65.0
280	-	RC280A	51.0
	-	RC280B	44.0
	-	RC280C	35.2
140	-	RC140A	25.5

M³/hr

MODEL	450	280	140
Maximum discharge pressure (Bar g)	24	24	24
Maximum discharge temperature (°C)	100	100	100
Maximum speed (rpm)	4000	4000	4000
Minimum speed (rpm)	800	800	800
Over all dimension	RT Model	RC Model	RC Model
Length (mm)	457	283	240
Width (mm)	284	217	217
Height (mm)	395	180	180
Drive shaft diameter			
Straight (mm)	32	25	25
Tapered (mm)	35 (4:1)	--	--
Weight (kg)	58	25.5	20
Connection sizes			
Suction	35 mm	25 mm	25 mm
Discharge	28 mm	21.5mm	21.5mm

RotoVane Transport and R-series models shown.

Note:
- The RT450 come complete with Oil separator and filter.
- The RC 280 and RC140 are the same except for the length.

Valves and piping are extra

RT450   RC280   RC140

MODEL NUMBERING SYSTEM   RT 450 B H S / C G O C

Model Type:
- RC = R Type
- RT = Transport

Size: (Compressor size)
- 450 = RTC 13/14 = R7/8
- 280 = R 5/6
- 140 = R 3 / 4

Profile: (Swept Volume – see table)
- A = Full size profile
- B = Mid size profile
- C = Small size profile

Volume Ratio:
- H = High (5:1 Vi for high compression ratios – lower evap temp)
- L = Low (3:1 Vi for low compression ratios – higher evap temp)

Rotation: (At shaft end)
- S = Standard = Clockwise (Default for RC and TR models)
- R = Reverse = Counter Clockwise (option for Transport models only)

Economizer Port/ Capacity Control:
- E = Economizer Port (Standard on all RC models, special for RT models)
- C = Capacity Control (Option for Transport models only)
- N = None (Option for Transport models only, special request for RC models)

Refrigerant Type:
- A = Ammonia (Special see engineering)
- G = Other (standard)

Oil Supplied:
- O = Oil Supplied with unit (Special on Transport Models only)
- D = Dry, oil to be added by user (Default on all models)

Unit Configuration:
- C = Clutch/pulley (Option on Transport models only)
- M = Motor set (set of compressor, motor, coupling and tunnel)
- N = Bare Shaft (Default on RC models and RT w/o clutch)
- I = Motor set ready for inverter (Future use – not available)

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