RCYL Series
Welded Steel Recovery Cylinders for Refrigerants

- Steel Recovery cylinders are made for transportation and storage of refrigerants at a maximum working pressure of 42 Bar (depending on type of cylinder; see also table below).
- The cylinders are available in capacities of: 12,5 ; 27,2 and 61 litres.
- The maximum allowable charge of the cylinder is depending on the type of refrigerant to be stored. Follow the regulations written on the cylinder body when charging the cylinder with different possible refrigerants.
- For safety reasons **DO NOT overfill cylinders**. Inside the cylinder there should always be a free space to allow the liquid refrigerant to expand into vapour (gas) concentrations in case the ambient temperature would rise.
- Following rules for determination of the maximum volume of the cylinder should be kept in mind:
    a. When charging the cylinder with **new** refrigerant you can use 80 % of the total volume of the cylinder .
    (e.g. 12,5 litres model can be charged up to 10 litres).
    b. When charging the cylinder with **used** refrigerant you can use 70 % of the total volume of the cylinder, because of possible non condensable gasses.
    (e.g. 12,5 liters model can be charged up to 8,75 liters).

The maximum charging allowed in the cylinder (in kg) is calculated by using below mentioned factors:

R12	1,15	**R21**	1,23	**R404A**	0,82
R22	1,03	**R410A**	0,86	**R114**	1,3
R407C	0,95	**R502**	1,05	**C10M1**	1,0
C10M2	1,0	**R32**	0,78	**R401C**	1,03

e.g. Charging a 12,5 litres cylinder with new R407C refrigerant would allow you to use a capacity of 10 litres of the cylinder (see a)). You can charge 10 litres x 0,95 = 9,5 kg of R407C into the cylinder.
When charging the same cylinder with new R12 refrigerant you can charge 10 litres x 1,15 = 11,5 kg of R12 into the cylinder.

- All cylinders are equipped with double valves for direct access to the vapour and/or the liquid refrigerant inside the cylinder. (Blue valve is for vapour, red valve is for liquid). The connections of the valves are ¼" SAE male flare.
- The valves are also equipped with safety relief valves set between 25 and 48 Bar (depending on type of cylinder).
- Check and test the cylinders regularly (periodicity is determined by the standards applicable country by country).
- It is forbidden to store the cylinders near heat sources and to leave them under the straight sunlight. Store them in dry, well-ventilated areas, equipped with the necessary technical requirements and in conformity with the standards applicable for storage of refrigerants.
- Check the cylinders always for damage before starting to use them. It is absolutely forbidden to use rusty, deformed or cracked cylinders.

Main technical characteristics:

Capacity (Water volume in litre)	12,5	27,2	61
Maximum working pressure (Bar)	42	42	42
Cylinder weight (kg)	7,9	14,1	27,2
Cylinder diameter (mm)	220	304	304
Cylinder height (mm)	499±6	633±6	1150±7