

System design / Oil

After a complete oil change, use only the following oils or their direct equivalents:

- R12 and R22 compressors: 2444RC mineral TE code 685013
- R502 (BP) compressors: alkylbenzene TE code 8685016
- R134a or R404A compressors: polyolester TE code 8685015

For top ups with R12 and R22 compressors it is possible to add up to 25% of the original charge with an equivalent oil e.g. SUNISO 3GS.

The original oil charge is given in our general catalogue.

When oil is drained from the compressor via the suction port a residue is left in the compressor housing, ranging from 8 to 15% of the initial charge, depending on the oil temperature.

This should be taken into consideration when carrying out a full oil change.

Acidity

It is a good practice to test oil acidity as a precautionary measure during maintenance, particularly in the case of medium to large capacities (above 2HP i.e. compressor models FH's and up). The testing kits available in the trade are generally sensitive to levels above 0.5mg KOH/g.

However, our R12 and R22 models are factory charged with oils with an acidity level around 1mg/KOH when new. The testing kits are not suitable for these types of oil.

However 2444RC mineral oil sold in 2 litre containers for topping up, has an acidity level of less than 0.05mg KOH/g compared with the oil used in the original fill.

Akylbene oil used in LBP R502 compressors has the same level.

The normal acidity level for polyolester oils used in R134a and R404A or R507 is 0.04mg KOH for small domestic compressors and 0.3mg KOH/g for all others.

NOTE : Additives