HyChill Minus 30 CHARGE WEIGHT GUIDE

The following is a wide-ranging refrigerant capacity listing of the suggested Minus 30 charge weights for vehicles fitted with R12 and R134a type air conditioning systems up to 2007. This listing should only be used as a guide to give some indication, clue or idea of the possible refrigerant charge required for the system. The charge weights listed are only applicable to HyChill Minus 30. When charging a system keep in mind that the charge weight may need approximately ± 25-50 grams of refrigerant to have the system running at its optimum.

The use of charging weigh scales is highly recommended

CAUTION
Do not over charge the system.
Vehicles may have factory, dealer or aftermarket systems installed, which can result in charge weights that varying widely between several identical vehicles. It can sometimes be difficult to identify replacement parts from original. Each and every replacement part can significantly alter the refrigerant capacity of the system. System pressures and vent temperatures should always be used to verify a system charge weight and performance.

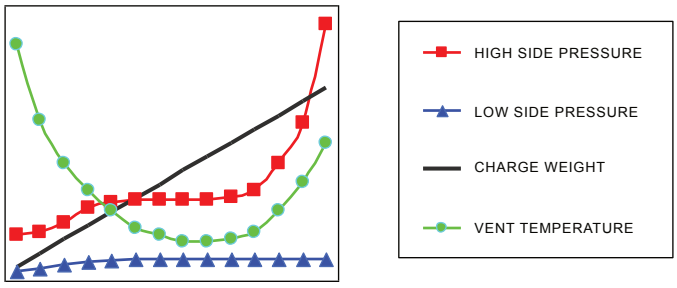
If the vehicle you're looking for isn't listed or you suspect the listing is incorrect, there are four ways of determining how much Minus 30 to use:

- The first method is to find the original charge weight on the system label under the bonnet, in the owner's manual or via the manufacturer and calculate 30% of the original charge by weight. For example, a vehicle charged with 900 grams of R134a or R12 would use 270 grams of Minus 30 and system with a 600 gram fluorocarbon capacity would require about 180 grams of Minus 30.

Original charge weight (grams) x 30% = Minus 30 charge weight (grams)

- The second method is by reading the gauge pressures and vent temperatures. This is the method commonly used when charging agricultural, mining, earthmoving and other heavy equipment. The gauge readings for Minus 30 refrigerant should always be lower than R134a. Typically between 15-25 psi (100-200kPa) on the low side and 150-225 psi (1000-1600kPa) on the high side at 1500RPM. These figures will depend on the ambient temperature, air flow and a good decent sized condenser - these contribute significantly to variations in the high pressure gauge reading.

PRESSURE TEMPERATURE RELATIONSHIP



- The third method is to charge by volume using the scale on a dial charger and charging about 15% less 'by volume' (not weight) of the original fluorocarbon charge. In other words, charge the system with about 85% of the original charge by volume (this translates to 30% of the original charge by weight).

- The fourth method is to call the HyChill Help Line **1300 492 445**. We are more than happy to receive your call and assist you with any technical matters regarding the use of HyChill Minus 30.

Please advise HyChill of any errors or omissions in this listing by calling the HyChill Help Line
1300 HYCHIL
(1300 492 445)

The latest charge weights can be found at
https://hychill.com.au/info/chargeweights