

## Configuring a Casella Tuff air sampling pump

Tuff pumps all share the same basic body, pump motor, controls and electronics but differ in the maximum flow rate available, the operational features and functionality, the battery pack capacity and whether or not a charger is to be included.

All Tuff pumps start with the basic body that is part number P30WXYZ where W, X, Y and Z represent a choice to be made from the following options.

Then add the code (W) for the maximum flow rate required as follows;

- 3 for 3000 ml/m or 3 l/m
- 4 for 4500 ml/m or 4.5 l/m

Then add the code (X) for the functionality and features as follows;

- 1 for the Standard run control features
- 2 for the Plus run control features
- 3 for the Pro run control features

Then add the code (Y) for the battery pack required as follows;

- 1 for the regular 1700 mAhr rechargeable pack
- 2 for the enhanced 2700 mAhr rechargeable pack

Then add the code (Z) for the charger unit if required or not as follows;

- 0 for no charger is included
- 1 for single charger and power supply is required

Example 1 – a Tuff 3 Plus with regular battery pack and charger would be **P303211**

Example 2 – a Tuff 4 Plus with enhanced battery pack and no charger would be **P304220**

To make up a 5 pack kit of Tuff 4 Pro pumps with enhanced battery pack plus two 3 way charger bases and power supplies plus USB infra red interface with Pump Manager software plus a 5 pack kit case would be –  
5 x P304220 pumps + 2 x 197021B chargers + 193200B USB interface + 1820xxA software + 197xxx 5 pack kit case.

To make a 3 pack of Tuff 3 Plus pumps with regular battery packs and a 3 way charger in a smaller kit case would be –  
3 x P303210 pumps + 197021B charger + 197070B case.

To make a Tuff 4 Standard pump with enhanced battery pack and a single way charger basic kit would be –  
1 x P304121 pump including single way charger unit and power supply.