

Data requested for the MEEUP model

Data collection

Please find overleaf the data (or “shopping list”) that is required to run the MEEUP model for circulators. The data comprises two parts:

1. Data on specific circulators from individual manufacturers. For each individual circulator please can you also send any relevant catalogues or datasheets.

2.) Other data - to be supplied as "standard" numbers by Europump

Data such as product lifetime, service requirements and efficiency deterioration over time are harder to judge, and so for consistency we propose to ask Europump for “baseline” figures. These figures will provide a common basis against which variations for different products can be estimated.

Note that the example shown is not for a real circulator, but is just to give an idea of the approach to be taken in completing the form.

What is the product?

If you do have more than one family of circulators that meets the duty, please submit data on all of these products. Don't worry about minor differences in construction – it is only aspects that will significantly affect the outcome of the eco-analysis that we are trying to capture. A small difference in fixing arrangement is probably not relevant, but a change in impeller material might be significant in energy terms, and so would justify re-running the model.

Clarifications

We have tried hard to make the list of questions as short and clear as possible, but recognise that there will be uncertainties, so do contact Charles or Hugh with any questions at all – we are obviously keen to help out as much as we can.

Hugh Falkner hugh.falkner@aeat.co.uk 00 (44) 870 190 6115
Charles Gaisford charles.gaisford@aeat.co.uk 00 (44) 870 190 6353

24 July 2006

1.) To be completed by manufacturer for each product that meets the selected duty

Circulator details

Circulator Type (Integrated / Stand alone)	Stand Alone
Manufacturer	XXXXXXXX
Model	XXXXXXXX

Product Bill of Materials (inc parts and packaging)

Item Description	Weight (g)	Type of material
Impeller	150	cast iron
Volute	300	cast iron
Rotor	180	iron
Stator	200	iron
Stator windings	200	copper
O rings	350	rubber

please add as many lines as needed

Typical consumables (spares)

XXXX	Weight (g)	XXXXXX
	XX	

please add as many lines as needed

Pump performance data (as per data required by Europump Circulators Classification scheme referenced from point where $H_{100\%} \times Q_{100\%} = P_{max}$)

Measured Flow at $Q_{100\%}$	1.7	m3/h
Measured power consumption at $Q_{100\%}$	65	W
Measured power consumption at $Q_{75\%}$	xx	W
Measured power consumption at $Q_{50\%}$	xx	W
Measured power consumption at $Q_{25\%}$	xx	W
Measured head at $Q_{100\%}$	3	m
Measured head at $Q_{75\%}$	xx	m
Measured head at $Q_{50\%}$	xx	m
Measured head at $Q_{25\%}$	xx	m

Other

Volume of packaged product	0.03	m3
Typical selling price (retail)	100	Euro

2.) Other data - to be supplied as "standard" numbers by Europump

Miscellaneous

Typical lifetime decrease in efficiency	10	%
Average product life	13	years*
Typical acquisition costs of pump - inc administrative costs, shipping, installation and commissioning.	80	euro
Typical cost of downtime due to circulator malfunction or servicing	0	euro

Service/maintenance

No. of service visits over circulator life	0	No.
Average distance travelled for each service visit (round trip)	0	km
Total cost of each service visits (excluding actual parts)	0	euro