Claims

1. A method of cleaning a liquid fluid filter (2) by means of a ~~at least one~~first cleaning process being a backwashing (BW) of the filter (2) and a second cleaning process being a chemical cleaning process~~(BW)~~, wherein said first cleaning process (BW) is started after a predetermined time period of operation of the filter or a predetermined amount of liquid filtered and wherein the method comprises the following steps:~~,~~ ~~characterized by~~ detecting a first transfilter pressure value (TMP) between both sides of the filter (2) at a first point in time and detecting a second transfilter pressure value (TMP) between both sides of the filter (2) at a second point in time,

   characterized by

   calculating a difference value (ΔTMP1, ΔTMP2) of the two detected transfilter pressure values (TMP),

   comparing said difference value (ΔTMP1, ΔTMP2) with a limit value XX,

   decreasing said predetermined time period or said predetermined amount of liquid to be filtered between two starts of said first cleaning process (BW) if said limit value XX is exceeded by said difference value (ΔTMP1, ΔTMP2)~~,~~,

   carrying out said second cleaning process if the predetermined time period or said predetermined amount of liquid to be filtered between two first cleaning processes (BW) reaches a predetermined minimum.

2. The method according to claim 1, characterized in that said at least one cleaning process (BW) is a backwashing of the filter (2).

3. The method according to claim 1 or 2, characterized in that said at least one cleaning process is a chemical cleaning process (internal cleaning in place process).

4. The method according to one of the preceding claims, characterized in that the flow direction of the cleaning process is from an inlet side (12) to an outlet side (14) of the liquid fluid filter (2).

5. The method according to one of the preceding claims, characterized in that the cleaning process is carried out in a closed circuit.

~~6. The method according to one of the preceding claims, characterized by a first cleaning process being a backwashing (BW) of the filter and a second cleaning process being a chemical cleaning process.~~

~~7. The method according to claim 6, characterized in that said second cleaning process is carried out if the predetermined time period or said predetermined amount of liquid to be filtered between two first cleaning processes (BW) reaches a predetermined minimum.~~

~~8.~~6. The method according to ~~claim 7~~one of the preceding claims, characterized in that the predetermined time period or the predetermined amount of liquid to be filtered between two first cleaning processes (BW) is reset to a start value after carrying out the second cleaning process.

~~9.~~7. The method according to ~~claim 7 or 8~~one of the preceding claims, characterized in that the flow through the filter (2) is lowered if the period of time between two second cleaning processes reaches a predetermined minimum time (AA).

~~10.~~8. The method according to one of the preceding claims, characterized in that the first transfilter pressure value (TMP) is detected directly after carrying out the cleaning process (BW) and the second transfilter pressure value (TMP) is detected directly before the following start of the cleaning process (BW).

~~11.~~9. The method according to one of the claims 1 to ~~9~~7, characterized in that the first and second transfilter pressure values (TMP) are detected in two different points in time in each case directly after carrying out the cleaning process (BW).

~~12.~~10. The method according to one of the preceding claims, characterized by calculating a first difference value (ΔTMP1) between a first and a second transfilter pressure value (TMP) which are detected directly after carrying out the cleaning process (BW) and directly before the following start of the cleaning process (BW).

~~13.~~11. The method according to claim ~~12~~10, characterized in that said first difference value (ΔTMP1) is compared with a first limit value (XX) and that said predetermined time period or said predetermined amount of liquid filtered between two starts of said cleaning process is decreased if said first limit value (XX) is exceeded by said first difference value (ΔTMP1).

~~14.~~12. The method according to claim ~~12~~ 10 or ~~13~~11, characterized by calculating a second difference value (ΔTMP2) between a first and a second transfilter pressure value (TMP) which are detected in two different points in time wherein the period between these points in time is greater than the period between the points in time at which the transfilter pressure values (TMP) for the first difference value (ΔTMP1) are taken.

~~15.~~13. The method according to claim ~~14~~12, characterized in that two points in time at which the transfilter pressure values (TMP) for the second difference value (ΔTMP2) are taken span a greater number of cleaning processes (BW) than the two points in time at which the transfilter pressure values (TMP) for the first difference value (ΔTMP1) are taken.

~~16.~~14. The method according to claim ~~14~~ 12 or ~~15~~13, characterized in that said second difference value (ΔTMP2) is compared with a second limit value (YY) and that said predetermined time period or said predetermined amount of liquid to be filtered between two starts of said cleaning process is decreased if said second limit value (YY) is exceeded by said second difference value (ΔTMP2).