CLAIMS

1. A manifold for a filtration device (40) with a set of at least one filter cassette (50) to apply against a bearing surface (7) of said manifold (1); which has an inlet conduit (14) having at least one flow inlet (10) for a fluid to treat, a filtrate outlet conduit (15) having at least one filtrate flow outlet (11) for a treated fluid termed filtrate, cassette feed ports (20) for said fluid to treat, communicating with said inlet conduit (14), and cassette filtrate return ports (21) for the filtrate, communicating with said filtrate outlet conduit (15), each said cassette feed port (20) and cassette filtrate return port (21) emerging through said bearing surface (7);

~~characterized in that~~wherein said manifold (1) comprises a main block (2 ; 102 ; 202) and an auxiliary block directly and permanently(3 ; 103 ; 203, 292) fastened to said main block (2 ; 102 ; 202);

with said bearing surface (7), said cassette feed ports (20) and said cassette filtrate return ports (21) belonging to the auxiliary block (3 ; 103 ; 203, 292), which further comprises, on a counter-bearing surface (8) situated on the opposite side to the bearing surface (7), first recesses (28) into each of which emerges at least one cassette filtrate return port (21);

with said inlet conduit (14) and said filtrate outlet conduit (15) belonging to said main block (2 ; 102 ; 202), which further comprises cassette feed intermediate ports (30) which each communicate with said inlet conduit (14) and with a respective cassette feed port (20), conveying cut-outs (35) each facing a respective said recess (28) of said auxiliary block (3 ; 103 ; 203, 292), and cassette filtrate return intermediate ports (25) which each communicate with said filtrate outlet conduit (15) and with a respective cassette filtrate return port (21).

2. A manifold according to claim 1, ~~characterized in that~~wherein said main block (2 ; 102 ; 202) and said auxiliary block (3 ; 103 ; 203, 292) are of plastics material and said blocks are welded to each other.

3. A manifold according to ~~one of~~ claim~~s~~ 1 ~~and 2~~, ~~characterized in that~~wherein said auxiliary block (3 ; 103 ; 203, 292) comprises ribs (41) formed on said counter-bearing surface (8).

4. A manifold according to claim 3, ~~characterized in that~~wherein said auxiliary block (3 ; 103 ; 203, 292) comprises second recesses (48) on said counter-bearing surface (8) that are configured such that said first and second recesses (28, 48) are passed alongside by said ribs (41).

5. A manifold according to ~~any one of~~ claim~~s~~ 1~~ to 4~~, ~~characterized in that~~wherein said cut-outs (35) converge towards the cassette filtrate return intermediate port~~s~~ (25).

6. A manifold according to ~~any one of~~ claim~~s~~ 1~~ to 5~~, ~~characterized in that~~wherein said auxiliary block (3) comprises first grooves (37) formed on the periphery of said first recesses (28), and said main block (2 ; 102 ; 202) comprises, on a surface (9) facing the counter-bearing surface (8) of said auxiliary block, first beads (38) introduced at least partially into said grooves (37).

7. A manifold according to ~~any one of~~ claim~~s~~ ~~1 to~~ 6, ~~characterized in that~~wherein said auxiliary block comprises second grooves (29) formed on the periphery of said cassette feed ports (20), and said main block (2 ; 102 ; 202) comprises, on a surface (9) facing the counter-bearing surface (8) of said auxiliary block (3), second beads (39) introduced at least partially in said second grooves (29).

8. A manifold according to ~~any one of~~ claim~~s~~ 1~~ to 7~~, ~~characterized in that~~wherein said main block (2) has a retentate outlet conduit (16) having a retentate flow outlet (12) for a treated fluid termed retentate, cassette retentate return intermediate ports (32) which each communicate with said retentate outlet conduit (16), and said auxiliary block (3) comprises cassette retentate return ports (22) each communicating with a said cassette retentate return intermediate port (32).

9. A manifold according to ~~any one of~~ claim~~s~~ 1~~ to 8~~, ~~characterized in that~~wherein said inlet conduit (14), said filtrate outlet conduit (15), said cassette feed ports (20), said cassette filtrate return ports (21), said first recesses (28), said cassette feed intermediate ports (30), said cut-outs (35) and said cassette filtrate return intermediate ports (25) are formed by machining.

10. A manifold according to ~~any one of~~ claim~~s~~ ~~1 to 9~~, ~~characterized in that~~wherein said auxiliary block (3) has a smaller outer perimeter that the outer perimeter of said main block (2).

11. A manifold according to ~~any one of~~ claim~~s~~ 1~~ to 10~~, ~~characterized in that~~wherein it comprises two auxiliary blocks (103 ; 190 ; 203, 292) fastened on respective opposite sides of said main block (102 ; 202).

12. A manifold according to ~~any one of~~ claim~~s~~ 1~~ to 10~~, ~~characterized in that~~wherein it comprises a supplementary block (190), which is solid and fastened to a surface (119) of said main block (102).

13. A device for filtration of a fluid with a set of at least one filter cassette (50) comprising a manifold (1) according to ~~any one of~~ claim~~s~~ 1~~ to 12~~ and a mechanical connection block (42) provided with a space (43) for receiving said manifold (1).