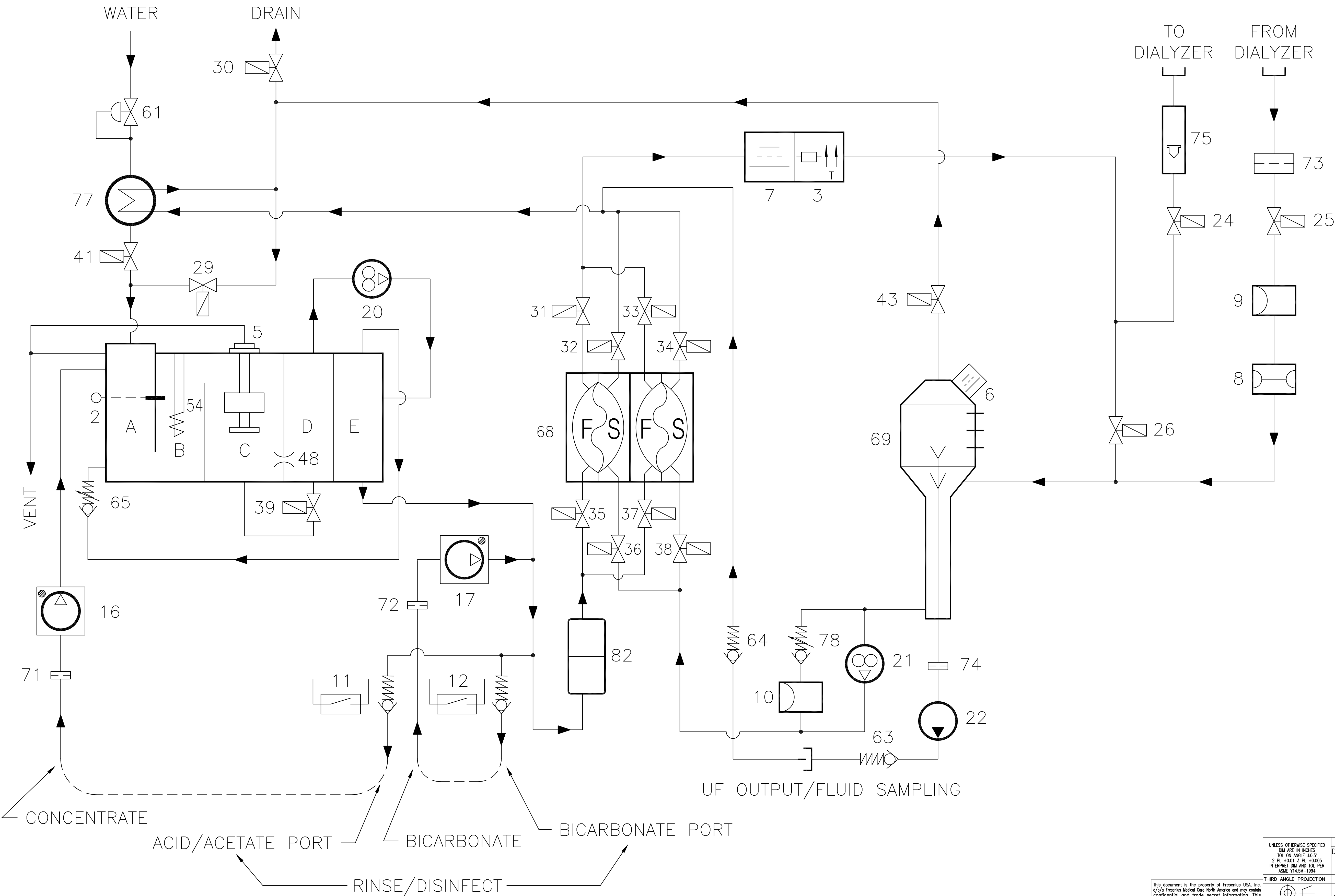


HYDRAULICS: 2008K@HOME (HYDROBLOCK)

REV.	RELEASE DATE	EFFECTIVE DATE	ORIGINATOR	CN#	DESCRIPTION OF CHANGES	APPROVAL
A	04/07/04	04/07/04	J. FOX	13514	RELEASE	J. FOX
B	07/16/07	07/16/07	J. FOX	21053	CORRECT FLOW FOR TEST VALVE 28	J. FOX
C	03/07/15	03/07/15	J. FOX	CN050550	NEW ROUTE FOR V29/CONSOLIDATED SHEETS	L. PANTOJA

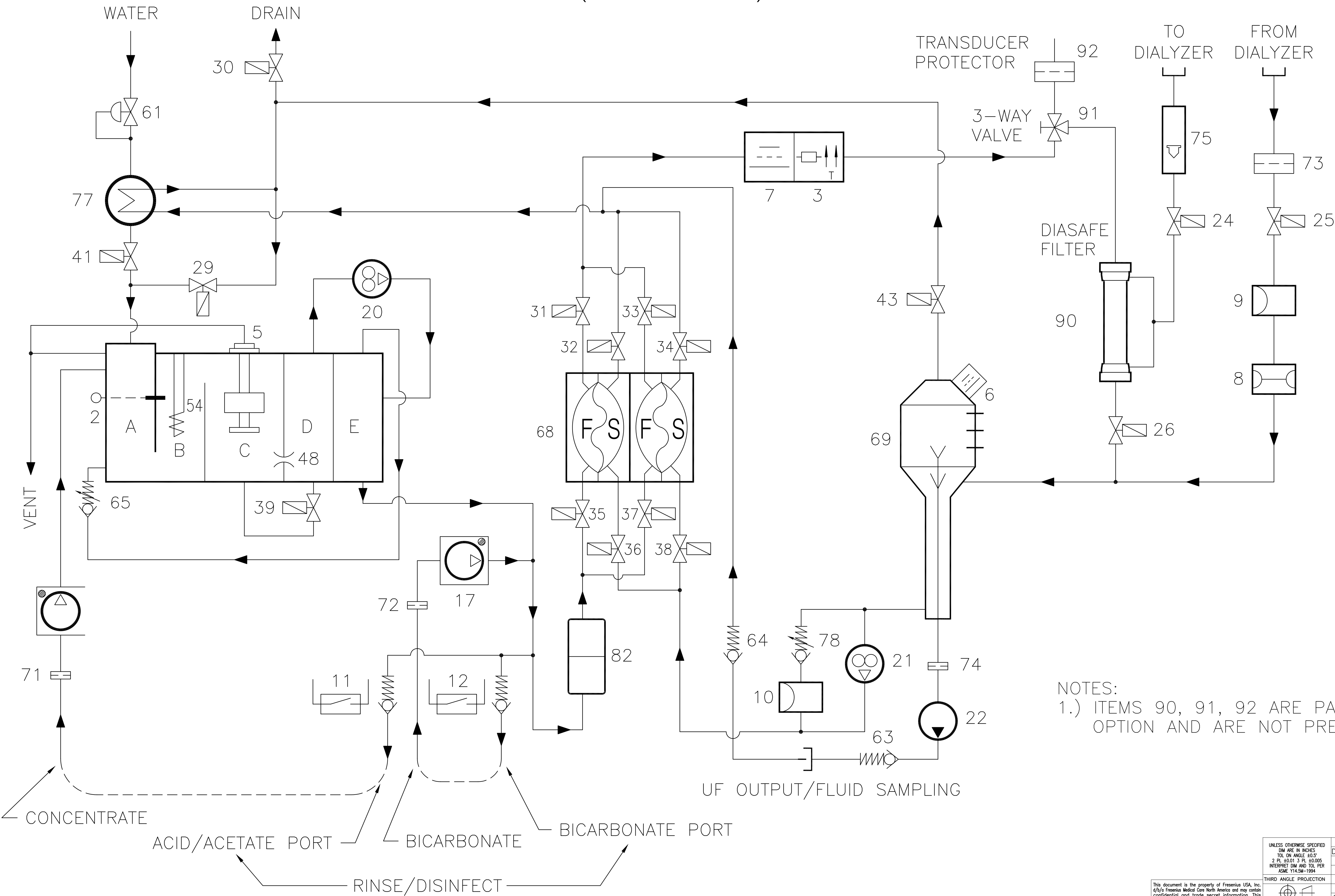
COMPONENT LIST FOR FLOW DIAGRAM 2008K@HOME

2. TEMPERATURE CONTROL THERMISTOR
3. TEMPERATURE MONITOR THERMISTOR
5. FLOAT SWITCH
6. AIR SENSOR IN AIR SEPARATOR CHAMBER.
7. CONDUCTIVITY CELL
8. BLOOD LEAK DETECTOR
9. DIALYSATE PRESSURE TRANSDUCER
10. CHAMBER FULL SWITCH
11. REED SWITCH CONCENTRATE WAND
12. REED SWITCH BICARBONATE WAND
16. CONCENTRATE PUMP
17. BICARBONATE PUMP
20. DEAERATION PUMP
21. FLOW PUMP
22. UF PUMP
24. DIALYZER VALVE 1
25. DIALYZER VALVE 2
26. BYPASS VALVE
29. RECIRCULATION VALVE
30. DRAIN VALVE
31. BALANCE CHAMBER VALVE
32. BALANCE CHAMBER VALVE
33. BALANCE CHAMBER VALVE
34. BALANCE CHAMBER VALVE
35. BALANCE CHAMBER VALVE
36. BALANCE CHAMBER VALVE
37. BALANCE CHAMBER VALVE
38. BALANCE CHAMBER VALVE
39. BYPASS VALVE FOR DEAERATION ORIFICE
41. WATER INLET VALVE
43. VENT VALVE FOR AIR SEPARATION CHAMBER
48. DEAERATION ORIFICE
54. HEATER
61. WATER INLET PRESSURE REGULATOR
63. CHECK VALVE FROM UF PUMP TO SAMPLE PORT
64. CHECK VALVE FROM SAMPLE PORT TO DRAIN
65. LOADING PRESSURE VALVE
69. AIR SEPARATION CHAMBER
71. ACID/ACETATE FILTER
72. BICARBONATE FILTER
73. FROM DIALYZER LINE FILTER
74. UF PUMP FILTER
75. DIALYSATE LINE FLOW INDICATOR
77. HEAT EXCHANGER
78. FLOW PUMP PRESSURE RELIEF VALVE
82. MIXING CHAMBER



<small>UNLESS OTHERWISE SPECIFIED DIM ARE IN INCHES TOL ON ANGLE ±0.5° 2 PL. ±0.01 3 PL. ±0.005 INTERPRET DIM AND TOL PER ASME Y14.5M-1994</small>	THIRD ANGLE PROJECTION	DRAWN	NAME	DATE	
	<small>THIS DOCUMENT IS THE PROPERTY OF FRESENIUS USA, INC. IT IS LOANED TO YOU FOR LIMITED PURPOSES. IT MAY NOT BE REPRODUCED IN WHOLE OR PART AND MUST BE RETURNED OR DESTROYED UPON REQUEST OR UPON COMPLETION OF THE PURPOSE OF THE LOAN. ©Fresenius Medical Care North America 2009-2015</small>		J. FOX	J. FOX	
<small>DO NOT SCALE DRAWING</small>		COMMENTS:		2008K@HOME HYDRAULIC FLOW DIAGRAM	
SIZE D DWG. NO. 700074 REV. C		SCALE: 1:1 CAD: AUTOCAD SHEET 1 OF 9			

HYDRAULICS: 2008K@HOME WITH DIASAFE FILTER (HYDROBLOCK)



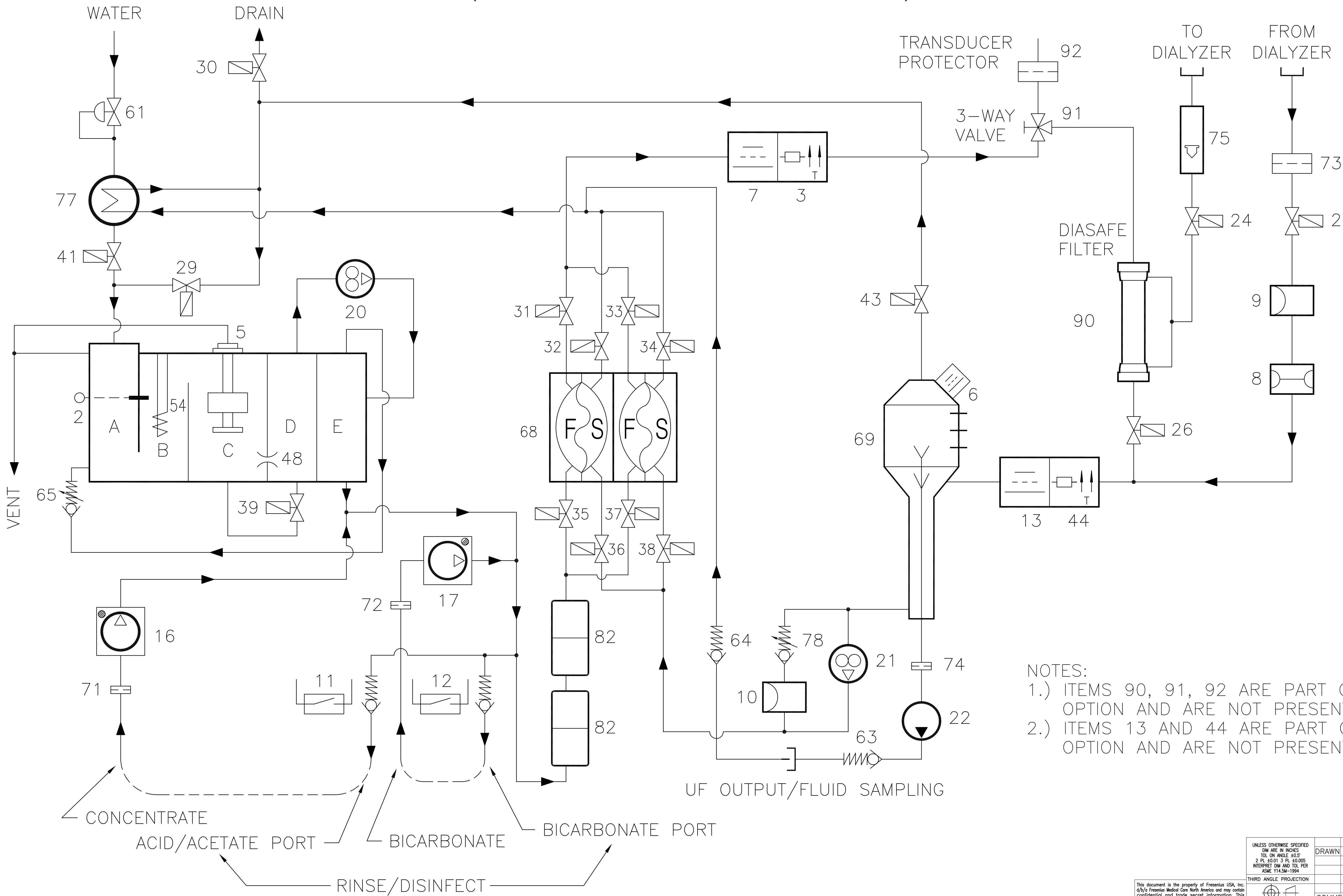
COMPONENT LIST FOR FLOW DIAGRAM 2008K@HOME

2. TEMPERATURE CONTROL THERMISTOR
3. TEMPERATURE MONITOR THERMISTOR
5. FLOAT SWITCH
6. AIR SENSOR IN AIR SEPARATOR CHAMBER.
7. CONDUCTIVITY CELL
8. BLOOD LEAK DETECTOR
9. DIALYSATE PRESSURE TRANSDUCER
10. CHAMBER FULL SWITCH
11. REED SWITCH CONCENTRATE WAND
12. REED SWITCH BICARBONATE WAND
16. CONCENTRATE PUMP
17. BICARBONATE PUMP
20. DEAERATION PUMP
21. FLOW PUMP
22. UF PUMP
24. DIALYZER VALVE 1
25. DIALYZER VALVE 2
26. BYPASS VALVE
29. RECIRCULATION VALVE
30. DRAIN VALVE
31. BALANCE CHAMBER VALVE
32. BALANCE CHAMBER VALVE
33. BALANCE CHAMBER VALVE
34. BALANCE CHAMBER VALVE
35. BALANCE CHAMBER VALVE
36. BALANCE CHAMBER VALVE
37. BALANCE CHAMBER VALVE
38. BALANCE CHAMBER VALVE
39. BYPASS VALVE FOR DEAERATION ORIFICE
41. WATER INLET VALVE
43. VENT VALVE FOR AIR SEPARATION CHAMBER
48. DEAERATION ORIFICE
54. HEATER
61. WATER INLET PRESSURE REGULATOR
63. CHECK VALVE FROM UF PUMP TO SAMPLE PORT
64. CHECK VALVE FROM SAMPLE PORT TO DRAIN
65. LOADING PRESSURE VALVE
69. AIR SEPARATION CHAMBER
71. ACID/ACETATE FILTER
72. BICARBONATE FILTER
73. FROM DIALYZER LINE FILTER
74. UF PUMP FILTER
75. DIALYSATE LINE FLOW INDICATOR
77. HEAT EXCHANGER
78. FLOW PUMP PRESSURE RELIEF VALVE
82. MIXING CHAMBER
90. DIASAFE FILTER
91. 3-WAY VALVE
92. TRANSDUCER PROTECTOR

NOTES:
1.) ITEMS 90, 91, 92 ARE PART OF THE DIASAFE FILTER OPTION AND ARE NOT PRESENT ON ALL MACHINES.

UNLESS OTHERWISE SPECIFIED DIM ARE IN INCHES TOL ON ANGLE ±0.5° 2 PL 30.001 3 PL 30.005 INTERPRET DIM AND TOL PER ASME Y14.5M-1994	DRAWN	NAME	DATE	
	J. FOX		3/10/04	2008K@HOME HYDRAULIC FLOW DIAGRAM
THIRD ANGLE PROJECTION MATERIAL N/A FINISH N/A DO NOT SCALE DRAWING	COMMENTS:			N/A
	SIZE	DWG. NO.	REV.	
	D	700074	C	
	SCALE: 1:1	CAD: AUTOCAD	SHEET 2 OF 9	

HYDRAULICS: 2008K@HOME WITH DIASAFE FILTER AND ONLINE CLEARANCE (HYDROBLOCK OR HYDROCHAMBER)



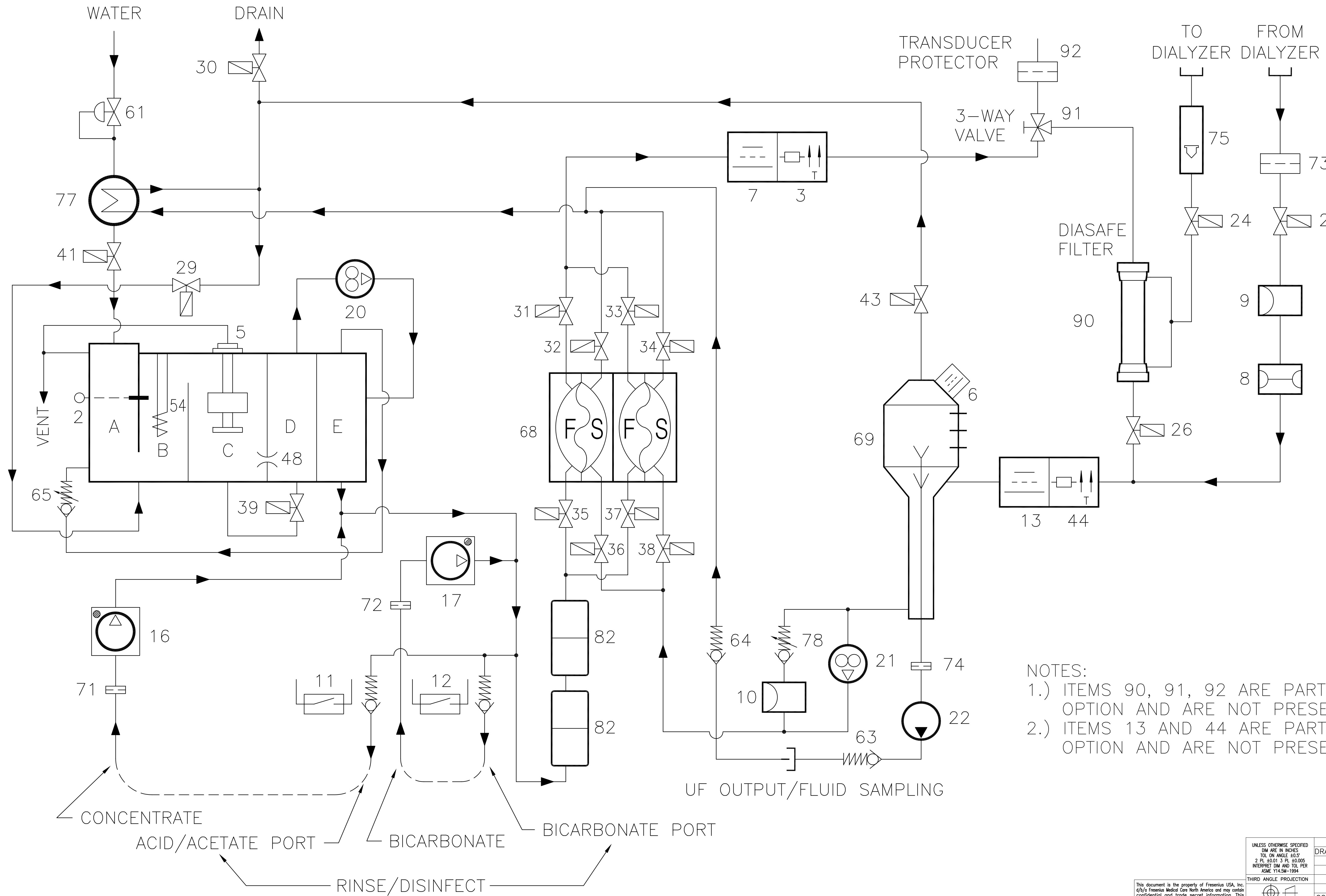
COMPONENT LIST FOR FLOW DIAGRAM 2008K@HOME

2. TEMPERATURE CONTROL THERMISTOR
3. TEMPERATURE MONITOR THERMISTOR
5. FLOAT SWITCH
6. AIR SENSOR IN AIR SEPARATOR CHAMBER.
7. CONDUCTIVITY CELL
8. BLOOD LEAK DETECTOR
9. DIALYSATE PRESSURE TRANSDUCER
10. CHAMBER FULL SWITCH
11. REED SWITCH CONCENTRATE WAND
12. REED SWITCH BICARBONATE WAND
13. POST CONDUCTIVITY CELL
16. CONCENTRATE PUMP
17. BICARBONATE PUMP
20. DEAERATION PUMP
21. FLOW PUMP
22. UF PUMP
24. DIALYZER VALVE 1
25. DIALYZER VALVE 2
26. BYPASS VALVE
29. RECIRCULATION VALVE
30. DRAIN VALVE
31. BALANCE CHAMBER VALVE
32. BALANCE CHAMBER VALVE
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34. BALANCE CHAMBER VALVE
35. BALANCE CHAMBER VALVE
36. BALANCE CHAMBER VALVE
37. BALANCE CHAMBER VALVE
38. BALANCE CHAMBER VALVE
39. BYPASS VALVE FOR DEAERATION ORIFICE
41. WATER INLET VALVE
43. VENT VALVE FOR AIR SEPARATION CHAMBER
44. POST TEMPERATURE THERMISTOR
48. DEAERATION ORIFICE
54. HEATER
61. WATER INLET PRESSURE REGULATOR
63. CHECK VALVE FROM UF PUMP TO SAMPLE PORT
64. CHECK VALVE FROM SAMPLE PORT TO DRAIN
65. LOADING PRESSURE VALVE
69. AIR SEPARATION CHAMBER
71. ACID/ACETATE FILTER
72. BICARBONATE FILTER
73. FROM DIALYZER LINE FILTER
74. UF PUMP FILTER
75. DIALYSATE LINE FLOW INDICATOR
77. HEAT EXCHANGER
78. FLOW PUMP PRESSURE RELIEF VALVE
82. MIXING CHAMBER
90. DIASAFE FILTER
91. 3-WAY VALVE
92. TRANSDUCER PROTECTOR

- NOTES:
- 1.) ITEMS 90, 91, 92 ARE PART OF THE DIASAFE FILTER OPTION AND ARE NOT PRESENT ON ALL MACHINES.
 - 2.) ITEMS 13 AND 44 ARE PART OF THE ONLINE CLEARANCE OPTION AND ARE NOT PRESENT ON ALL MACHINES,

UNLESS OTHERWISE SPECIFIED DIM ARE IN INCHES TOL ON ANGLE ±0.5° 2 PL. ±0.01 3 PL. ±0.005 INTERPRET DIM AND TOL PER ASME Y14.5M-1994	DRAWN J. FOX	NAME	DATE	
THIRD ANGLE PROJECTION MATERIAL N/A FINISH N/A DO NOT SCALE DRAWING	COMMENTS: N/A			2008K@HOME HYDRAULIC FLOW DIAGRAM
D	SIZE	DWG. NO.	700074	REV. C
SCALE: 1:1		CAD: AUTOCAD		SHEET 3 OF 9

HYDRAULICS: 2008K@HOME WITH DIASAFE FILTER AND ONLINE CLEARANCE (HYDROCHAMBER AND ENHANCED BACKFLOW PREVENTION)



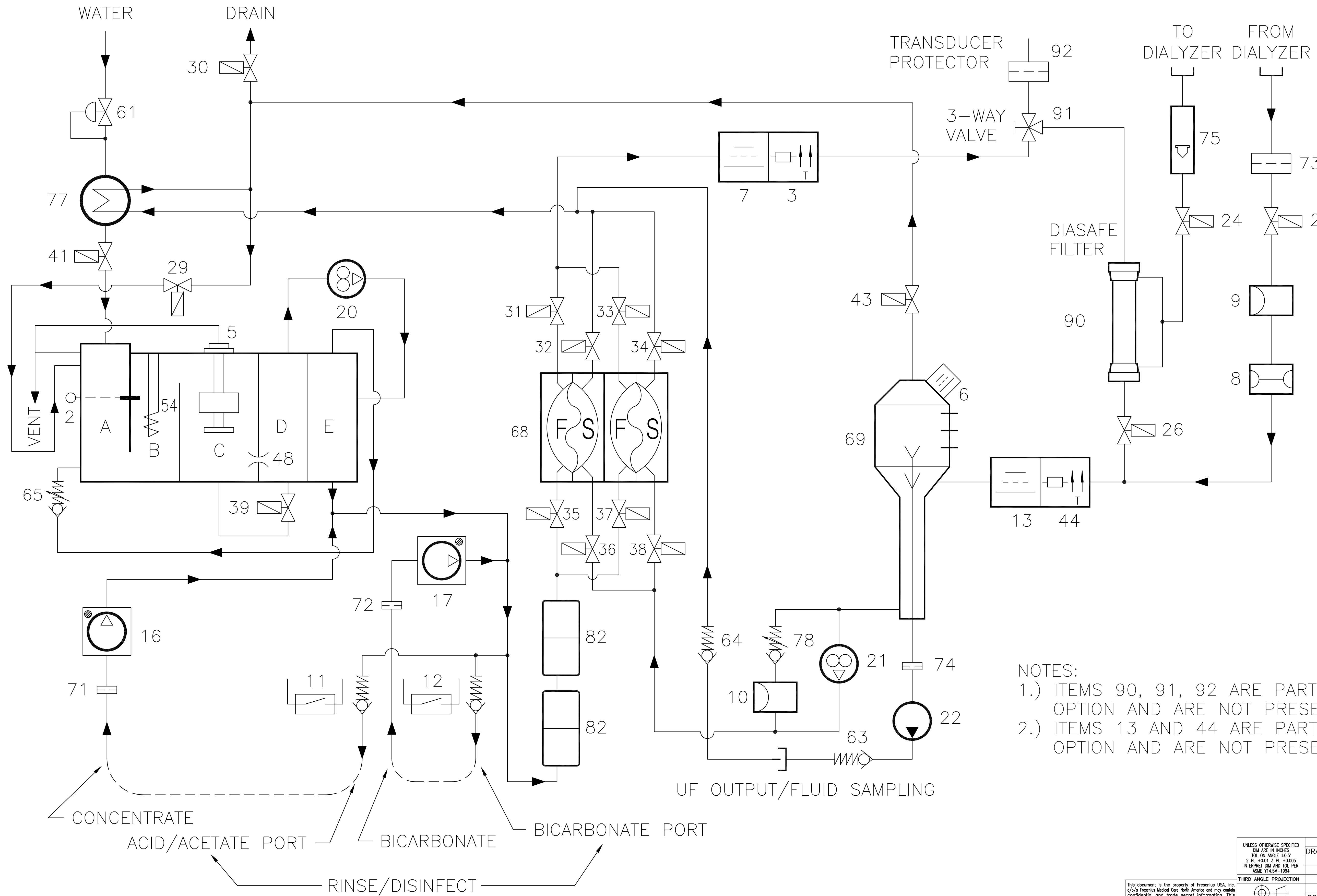
COMPONENT LIST FOR FLOW DIAGRAM 2008K@HOME

2. TEMPERATURE CONTROL THERMISTOR
3. TEMPERATURE MONITOR THERMISTOR
5. FLOAT SWITCH
6. AIR SENSOR IN AIR SEPARATOR CHAMBER.
7. CONDUCTIVITY CELL
8. BLOOD LEAK DETECTOR
9. DIALYSATE PRESSURE TRANSDUCER
10. CHAMBER FULL SWITCH
11. REED SWITCH CONCENTRATE WAND
12. REED SWITCH BICARBONATE WAND
13. POST CONDUCTIVITY CELL
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17. BICARBONATE PUMP
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24. DIALYZER VALVE 1
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30. DRAIN VALVE
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35. BALANCE CHAMBER VALVE
36. BALANCE CHAMBER VALVE
37. BALANCE CHAMBER VALVE
38. BALANCE CHAMBER VALVE
39. BYPASS VALVE FOR DEAERATION ORIFICE
41. WATER INLET VALVE
43. VENT VALVE FOR AIR SEPARATION CHAMBER
44. POST TEMPERATURE THERMISTOR
48. DEAERATION ORIFICE
54. HEATER
61. WATER INLET PRESSURE REGULATOR
63. CHECK VALVE FROM UF PUMP TO SAMPLE PORT
64. CHECK VALVE FROM SAMPLE PORT TO DRAIN
65. LOADING PRESSURE VALVE
69. AIR SEPARATION CHAMBER
71. ACID/ACETATE FILTER
72. BICARBONATE FILTER
73. FROM DIALYZER LINE FILTER
74. UF PUMP FILTER
75. DIALYSATE LINE FLOW INDICATOR
77. HEAT EXCHANGER
78. FLOW PUMP PRESSURE RELIEF VALVE
82. MIXING CHAMBER
90. DIASAFE FILTER
91. 3-WAY VALVE
92. TRANSDUCER PROTECTOR

NOTES:
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UNLESS OTHERWISE SPECIFIED DIM ARE IN INCHES TOL ON ANGLE ±0.5° 2 PL 30.031 3 PL 30.005 INTERPRET DIM AND TOL PER ASME Y14.5M-1994		DRAWN	NAME	DATE	
		J. FOX		3/10/04	
THIRD ANGLE PROJECTION		COMMENTS:			2008K@HOME HYDRAULIC FLOW DIAGRAM
		N/A			
MATERIAL FINISH		SIZE			DWG. NO. 700074
		D			
DO NOT SCALE DRAWING		SCALE: 1:1			SHEET 4 OF 9
		CAD: AUTOCAD			

HYDRAULICS: 2008K@HOME WITH DIASAFE FILTER AND ONLINE CLEARANCE (HYDROBLOCK AND ENHANCED BACKFLOW PREVENTION)



COMPONENT LIST FOR FLOW DIAGRAM 2008K@HOME

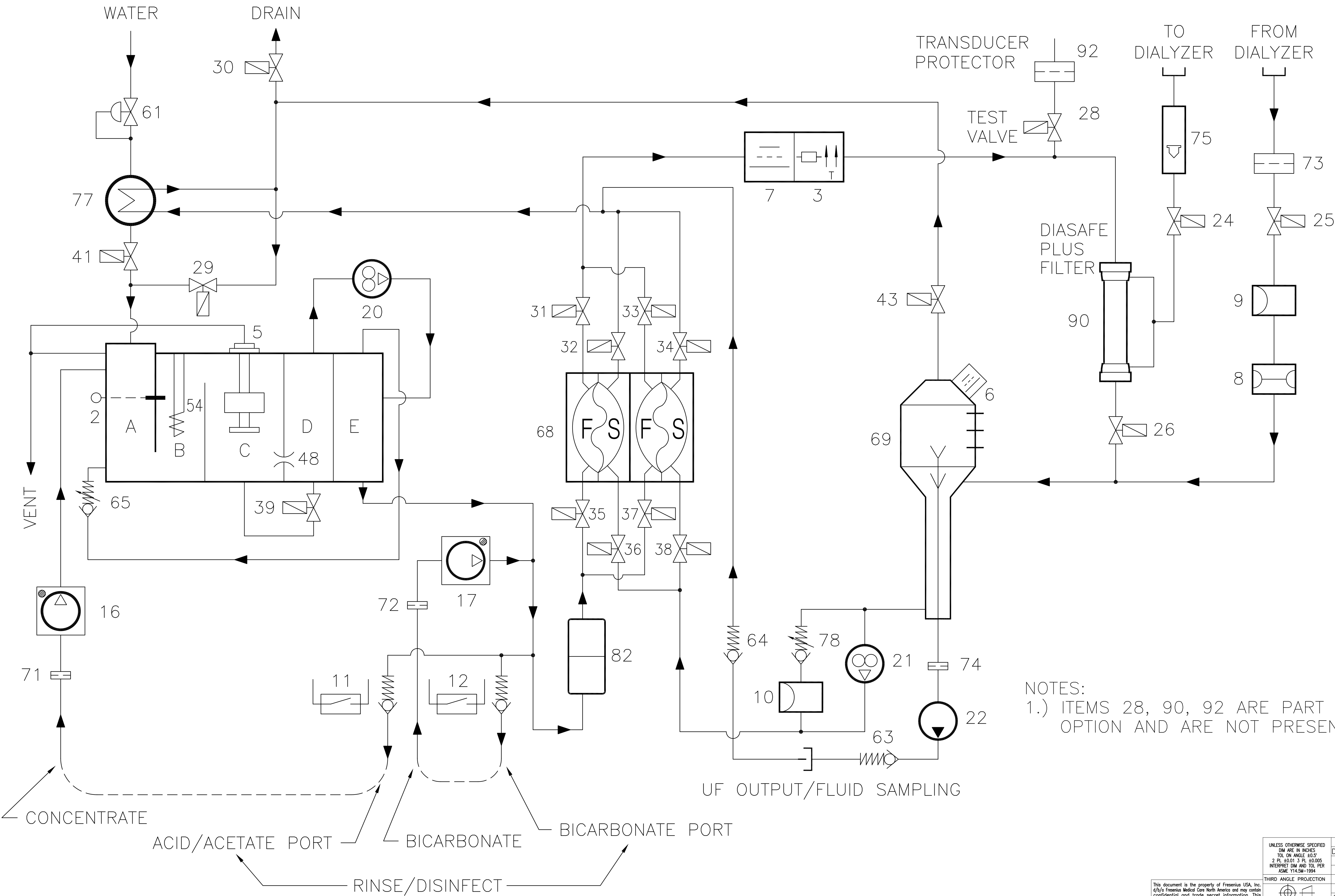
2. TEMPERATURE CONTROL THERMISTOR
3. TEMPERATURE MONITOR THERMISTOR
5. FLOAT SWITCH
6. AIR SENSOR IN AIR SEPARATOR CHAMBER.
7. CONDUCTIVITY CELL
8. BLOOD LEAK DETECTOR
9. DIALYSATE PRESSURE TRANSDUCER
10. CHAMBER FULL SWITCH
11. REED SWITCH CONCENTRATE WAND
12. REED SWITCH BICARBONATE WAND
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90. DIASAFE FILTER
91. 3-WAY VALVE
92. TRANSDUCER PROTECTOR

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UNLESS OTHERWISE SPECIFIED DIM ARE IN INCHES TOL ON ANGLE ±0.5° 2 PL. ±0.031 3 PL. ±0.005 INTERPRET DIM AND TOL PER ASME Y14.5M-1994	DRAWN J. FOX DATE 3/10/04	
THIRD ANGLE PROJECTION MATERIAL N/A FINISH N/A DO NOT SCALE DRAWING	COMMENTS: N/A	2008K@HOME HYDRAULIC FLOW DIAGRAM
SCALE: 1:1	CAD: AUTOCAD	SHEET 5 OF 9
SIZE D	DWG. NO. 700074	REV. C

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HYDRAULICS: 2008K@HOME WITH DIASAFE PLUS FILTER (HYDROBLOCK)



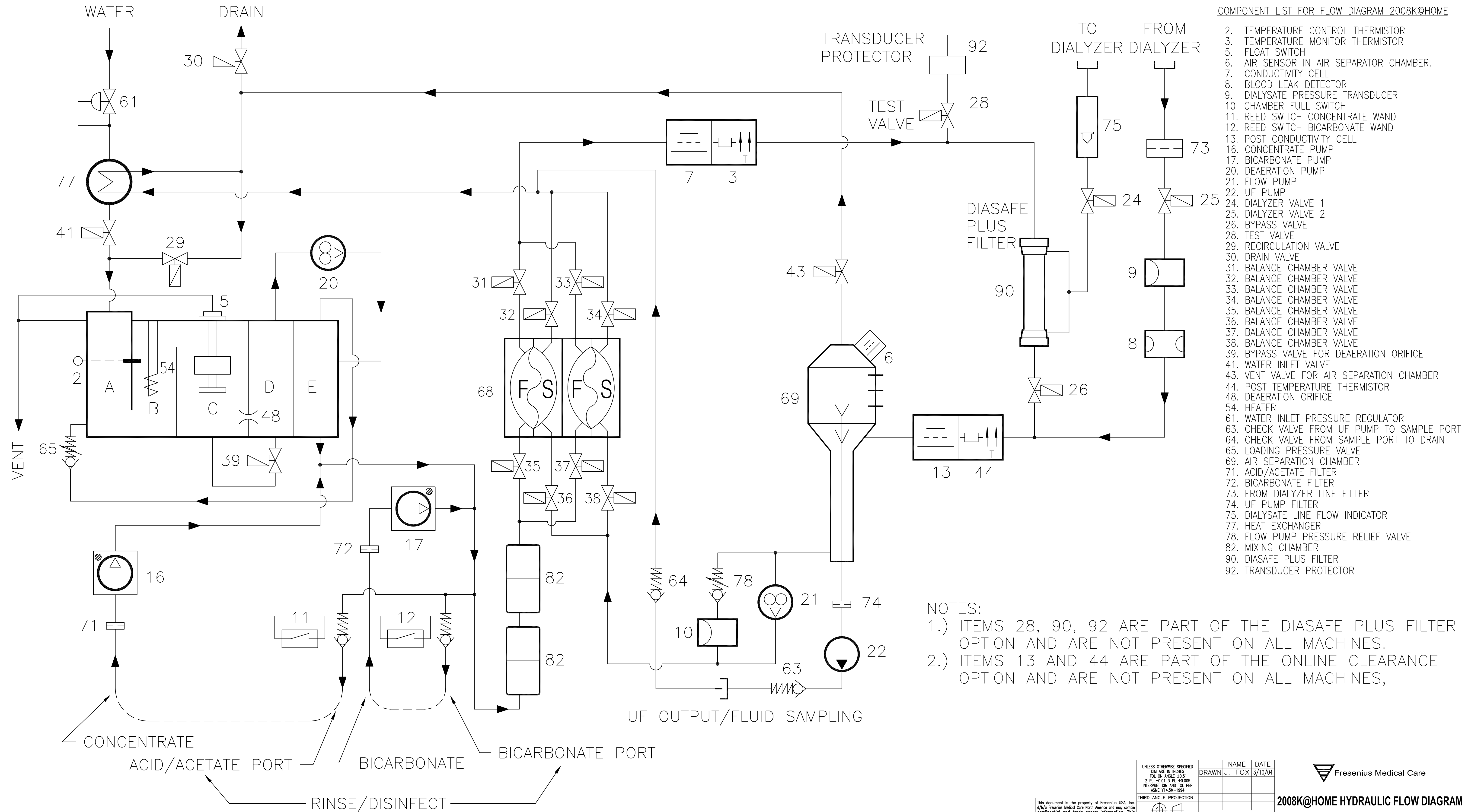
COMPONENT LIST FOR FLOW DIAGRAM 2008K@HOME

2. TEMPERATURE CONTROL THERMISTOR
3. TEMPERATURE MONITOR THERMISTOR
5. FLOAT SWITCH
6. AIR SENSOR IN AIR SEPARATOR CHAMBER.
7. CONDUCTIVITY CELL
8. BLOOD LEAK DETECTOR
9. DIALYSATE PRESSURE TRANSDUCER
10. CHAMBER FULL SWITCH
11. REED SWITCH CONCENTRATE WAND
12. REED SWITCH BICARBONATE WAND
16. CONCENTRATE PUMP
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21. FLOW PUMP
22. UF PUMP
24. DIALYZER VALVE 1
25. DIALYZER VALVE 2
26. BYPASS VALVE
28. TEST VALVE
29. RECIRCULATION VALVE
30. DRAIN VALVE
31. BALANCE CHAMBER VALVE
32. BALANCE CHAMBER VALVE
33. BALANCE CHAMBER VALVE
34. BALANCE CHAMBER VALVE
35. BALANCE CHAMBER VALVE
36. BALANCE CHAMBER VALVE
37. BALANCE CHAMBER VALVE
38. BALANCE CHAMBER VALVE
39. BYPASS VALVE FOR DEAERATION ORIFICE
41. WATER INLET VALVE
43. VENT VALVE FOR AIR SEPARATION CHAMBER
48. DEAERATION ORIFICE
54. HEATER
61. WATER INLET PRESSURE REGULATOR
63. CHECK VALVE FROM UF PUMP TO SAMPLE PORT
64. CHECK VALVE FROM SAMPLE PORT TO DRAIN
65. LOADING PRESSURE VALVE
69. AIR SEPARATION CHAMBER
71. ACID/ACETATE FILTER
72. BICARBONATE FILTER
73. FROM DIALYZER LINE FILTER
74. UF PUMP FILTER
75. DIALYSATE LINE FLOW INDICATOR
77. HEAT EXCHANGER
78. FLOW PUMP PRESSURE RELIEF VALVE
82. MIXING CHAMBER
90. DIASAFE PLUS FILTER
92. TRANSDUCER PROTECTOR

NOTES:
 1.) ITEMS 28, 90, 92 ARE PART OF THE DIASAFE PLUS FILTER OPTION AND ARE NOT PRESENT ON ALL MACHINES.

UNLESS OTHERWISE SPECIFIED DIM ARE IN INCHES TOL ON ANGLE ±0.5° 2 PL 50.001 3 PL 50.005 INTERPRET DIM AND TOL PER ASME Y14.5M-1994		DRAWN	NAME	DATE	
		J. FOX		3/10/04	
THIRD ANGLE PROJECTION					2008K@HOME HYDRAULIC FLOW DIAGRAM
MATERIAL: N/A FINISH: N/A DO NOT SCALE DRAWING					
COMMENTS:					REV. C
N/A					
SCALE: 1:1		CAD: AUTOCAD		SHEET 6 OF 9	

HYDRAULICS: 2008K@HOME WITH DIASAFE PLUS FILTER AND ONLINE CLEARANCE (HYDROBLOCK OR HYDROCHAMBER)



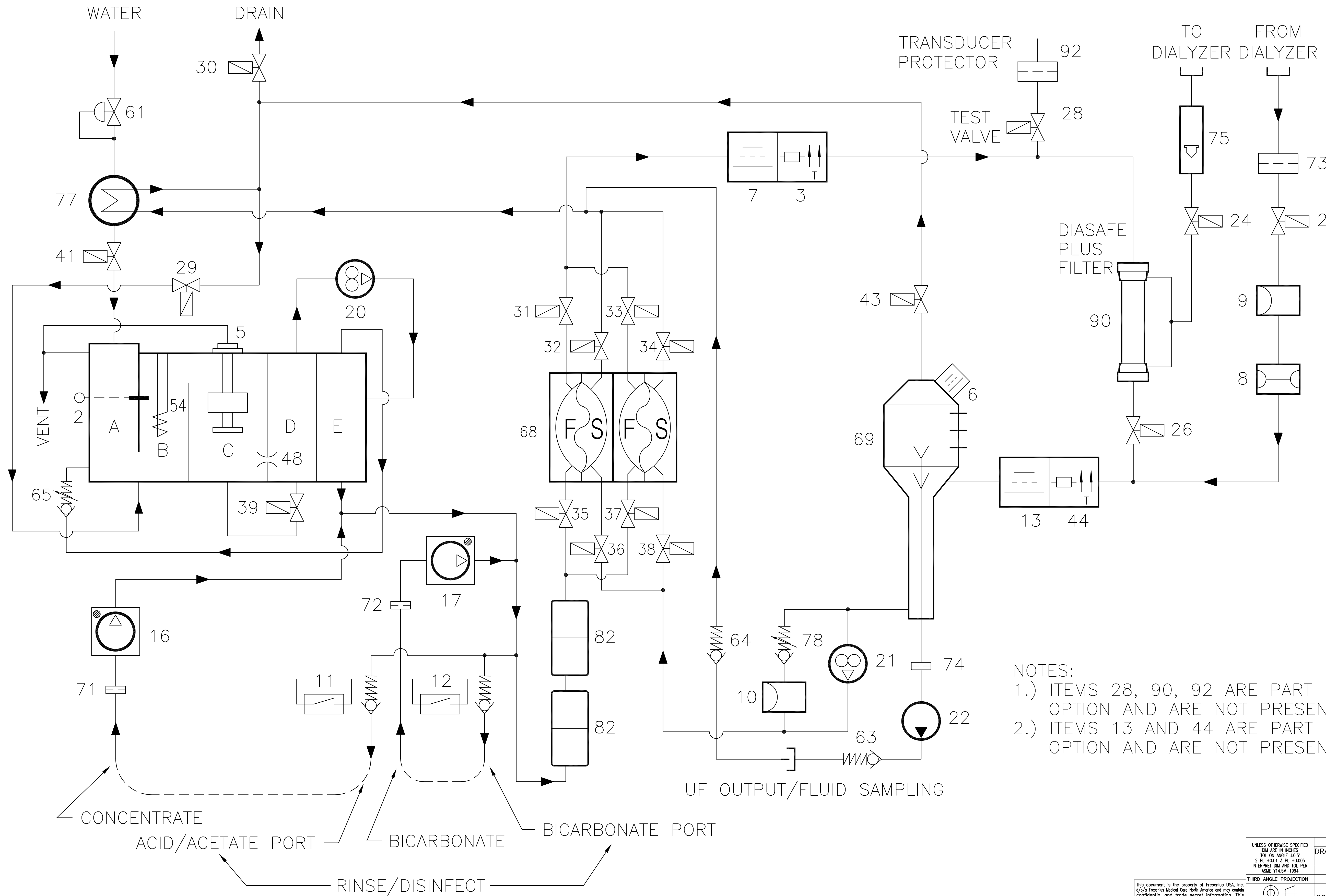
COMPONENT LIST FOR FLOW DIAGRAM 2008K@HOME

2. TEMPERATURE CONTROL THERMISTOR
3. TEMPERATURE MONITOR THERMISTOR
5. FLOAT SWITCH
6. AIR SENSOR IN AIR SEPARATOR CHAMBER.
7. CONDUCTIVITY CELL
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11. REED SWITCH CONCENTRATE WAND
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33. BALANCE CHAMBER VALVE
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90. DIASAFE PLUS FILTER
92. TRANSDUCER PROTECTOR

- NOTES:
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UNLESS OTHERWISE SPECIFIED DIM ARE IN INCHES TOL ON ANGLE ±0.5° 2 PL. ±0.01 3 PL. ±0.005 INTERPRET DIM AND TOL PER ASME Y14.5M-1994		NAME J. FOX	DATE 3/10/04	
THIRD ANGLE PROJECTION		COMMENTS: N/A		
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HYDRAULICS: 2008K@HOME WITH DIASAFE PLUS FILTER AND ONLINE CLEARANCE (HYDROCHAMBER AND ENHANCED BACKFLOW PREVENTION)



COMPONENT LIST FOR FLOW DIAGRAM 2008K@HOME

2. TEMPERATURE CONTROL THERMISTOR
3. TEMPERATURE MONITOR THERMISTOR
5. FLOAT SWITCH
6. AIR SENSOR IN AIR SEPARATOR CHAMBER.
7. CONDUCTIVITY CELL
8. BLOOD LEAK DETECTOR
9. DIALYSATE PRESSURE TRANSDUCER
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30. DRAIN VALVE
31. BALANCE CHAMBER VALVE
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37. BALANCE CHAMBER VALVE
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41. WATER INLET VALVE
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44. POST TEMPERATURE THERMISTOR
48. DEAERATION ORIFICE
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61. WATER INLET PRESSURE REGULATOR
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92. TRANSDUCER PROTECTOR

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 - 2.) ITEMS 13 AND 44 ARE PART OF THE ONLINE CLEARANCE OPTION AND ARE NOT PRESENT ON ALL MACHINES,

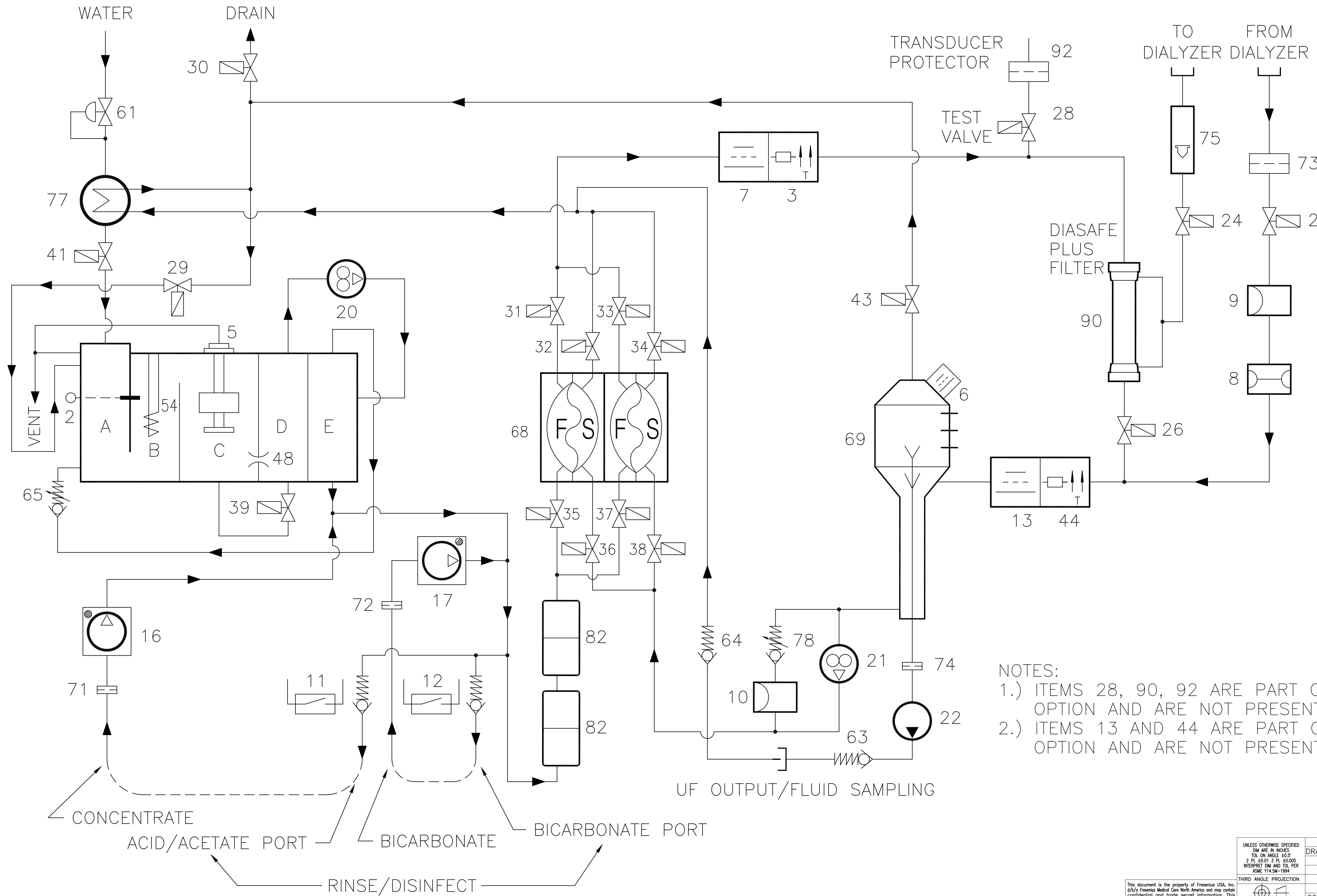
UNLESS OTHERWISE SPECIFIED DIM ARE IN INCHES TOL ON ANGLE ±0.5° 2 PL. SLO. 3 PL. SLO. 0.005 INTERPRET DIM AND TOL PER ASME Y14.5M-1994		DRAWN	J. FOX	DATE	3/10/04		
THIRD ANGLE PROJECTION		COMMENTS:				N/A	
MATERIAL		N/A				N/A	
FINISH		N/A				N/A	
DO NOT SCALE DRAWING		SCALE: 1:1		CAD: AUTOCAD		SHEET 8 OF 9	

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2008K@HOME HYDRAULIC FLOW DIAGRAM

SIZE **D** DWG. NO. **700074** REV. **C**

HYDRAULICS: 2008K@HOME WITH DIASAFE PLUS FILTER AND ONLINE CLEARANCE (HYDROBLOCK AND ENHANCED BACKFLOW PREVENTION)



COMPONENT LIST FOR FLOW DIAGRAM 2008K@HOME

2. TEMPERATURE CONTROL THERMISTOR
3. TEMPERATURE MONITOR THERMISTOR
5. FLOAT SWITCH
6. AIR SENSOR IN AIR SEPARATOR CHAMBER.
7. CONDUCTIVITY CELL
8. BLOOD LEAK DETECTOR
9. DIALYSATE PRESSURE TRANSDUCER
10. CHAMBER FULL SWITCH
11. REED SWITCH CONCENTRATE WAND
12. REED SWITCH BICARBONATE WAND
13. POST CONDUCTIVITY CELL
16. CONCENTRATE PUMP
17. BICARBONATE PUMP
20. DEAERATION PUMP
21. FLOW PUMP
22. UF PUMP
24. DIALYZER VALVE 1
25. DIALYZER VALVE 2
26. BYPASS VALVE
28. TEST VALVE
29. RECIRCULATION VALVE
30. DRAIN VALVE
31. BALANCE CHAMBER VALVE
32. BALANCE CHAMBER VALVE
33. BALANCE CHAMBER VALVE
34. BALANCE CHAMBER VALVE
35. BALANCE CHAMBER VALVE
36. BALANCE CHAMBER VALVE
37. BALANCE CHAMBER VALVE
38. BALANCE CHAMBER VALVE
39. BYPASS VALVE FOR DEAERATION ORIFICE
41. WATER INLET VALVE
43. VENT VALVE FOR AIR SEPARATION CHAMBER
44. POST TEMPERATURE THERMISTOR
48. DEAERATION ORIFICE
54. HEATER
61. WATER INLET PRESSURE REGULATOR
63. CHECK VALVE FROM UF PUMP TO SAMPLE PORT
64. CHECK VALVE FROM SAMPLE PORT TO DRAIN
65. LOADING PRESSURE VALVE
69. AIR SEPARATION CHAMBER
71. ACID/ACETATE FILTER
72. BICARBONATE FILTER
73. FROM DIALYZER LINE FILTER
74. UF PUMP FILTER
75. DIALYSATE LINE FLOW INDICATOR
77. HEAT EXCHANGER
78. FLOW PUMP PRESSURE RELIEF VALVE
82. MIXING CHAMBER
90. DIASAFE PLUS FILTER
92. TRANSDUCER PROTECTOR

- NOTES:
- 1.) ITEMS 28, 90, 92 ARE PART OF THE DIASAFE PLUS FILTER OPTION AND ARE NOT PRESENT ON ALL MACHINES.
 - 2.) ITEMS 13 AND 44 ARE PART OF THE ONLINE CLEARANCE OPTION AND ARE NOT PRESENT ON ALL MACHINES,

UNLESS OTHERWISE SPECIFIED DIM ARE IN INCHES TOL ON ANGLE ±0.5° 2 PL. SLOTT 3 PL. SLOTT INTERPRET DIM AND TOL PER ASME Y14.5M-1994	DRAWN	J. FOX	DATE	3/10/04	
THIRD ANGLE PROJECTION MATERIAL N/A FINISH N/A DO NOT SCALE DRAWING	COMMENTS: N/A				2008K@HOME HYDRAULIC FLOW DIAGRAM
SIZE D		DWG. NO. 700074		REV. C	
SCALE: 1:1		CAD: AUTOCAD		SHEET 9 OF 9	

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