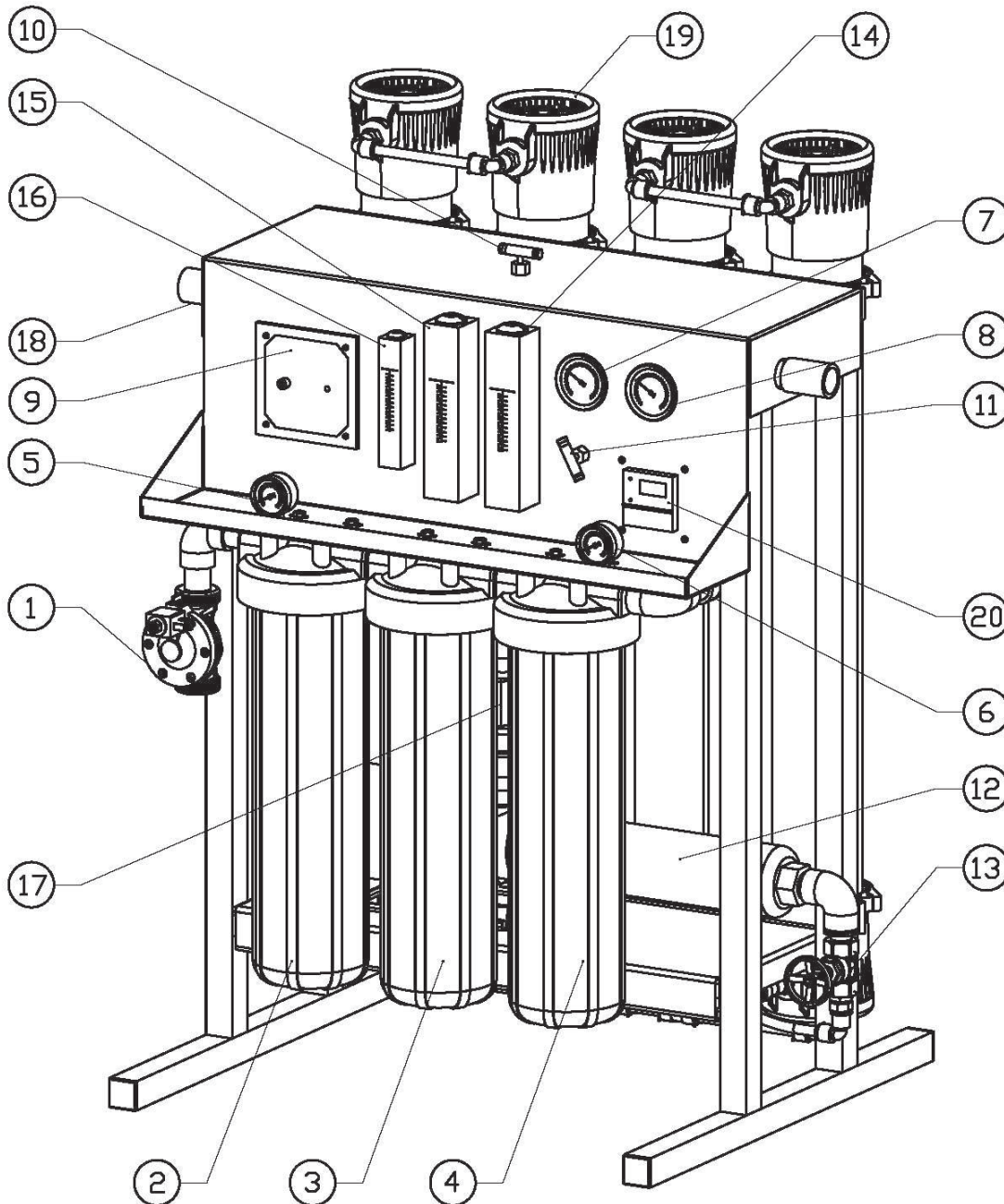


Reverse Osmosis

SYSTEMS: ROS-4000T • ROS-5000T • ROS-7000T •

PARTS MANUAL



NS CORPORATION

Quality Equipment Since 1961

Revision: **2**

Date: **05/2019**

Approved by: **CA**



Contents

REVERSE OSMOSIS SYSTEMS

ROS-4000T • ROS-5000T • ROS-7000T **3**

REVERSE OSMOSIS SYSTEMS

Layout _____ **4**

REVERSE OSMOSIS SYSTEMS

Parts List _____ **5**

BACK VIEW

Assembly _____ **6**

FILTER HOUSING

Assembly _____ **7**

PVC MEMBRANE HOUSING

Part List _____ **8**

SST MEMBRANE HOUSING

Part List _____ **9**

RO FITTINGS & HOSES

Part List _____ **11**

PART NUMBERS

NUMBER IDENTIFICATION

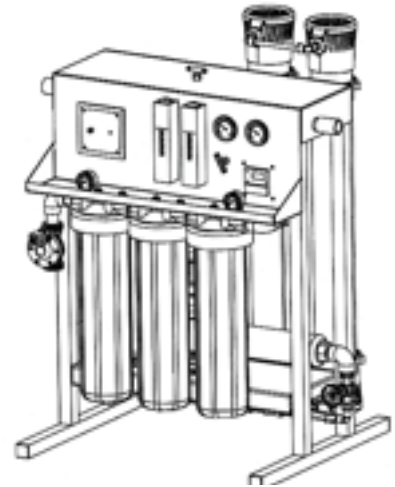
1. Solenoid Valve – Turns On/Off Feed Water
2. 5 Micron Sediment – Removes particulates
3. 10 Micron Carbon Block - Removes Chlorine
4. 1 Micron Sediment – Removes particulates
5. Pressure Gauge - Measures feed pressure
6. Pressure Gauge - Measures pressure after filters
7. Pressure Gauge - Measures pump pressure
8. Pressure Gauge – Measures concentrate pressure
9. Computer Control - Controls RO system
10. Recycle Valve – Recycles concentrate back to feed (If Applicable)
11. Concentrate Valve – Controls flow of concentrate (waste) water to the drain
12. RO Pump & Motor - Pressurizes RO System
13. Throttle Valve – Controls flow of the pump
14. Flow Meter - Measures flow of permeate water
15. Flow Meter - Measures flow of concentrate (waste) water
16. Flow Meter - Measures flow of concentrate recycle water (If Applicable)
17. Pressure Switch – Turns the Pump off at 15 PSI feed pressure
18. Permeate check Valve- Protects membranes from back pressure
19. Pressure Vessels – Houses Membrane Elements
20. TDS Meter – Reads the quality of the permeate water

REVERSE OSMOSIS SYSTEMS

ROS-4000T • ROS-5000T • ROS-7000T

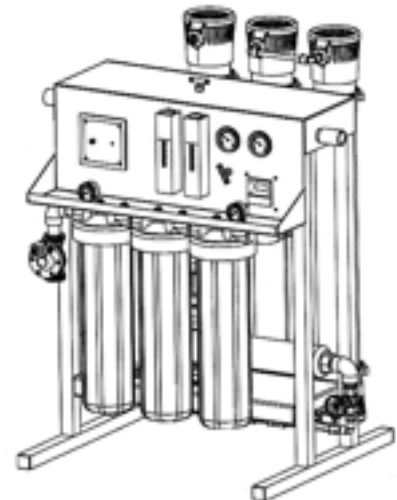
ROS-4000T

- 4,000 Gallons per day system.
- 2 Membranes.
- Pre-Filtration system.
- 1.5HP multistage R.O. pump.



ROS-5000T

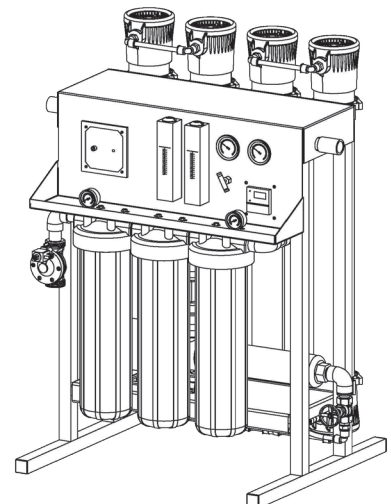
- 5,000 Gallons per day system.
- 3 Membranes.
- Pre-Filtration system.
- 5HP multistage R.O. pump.



3

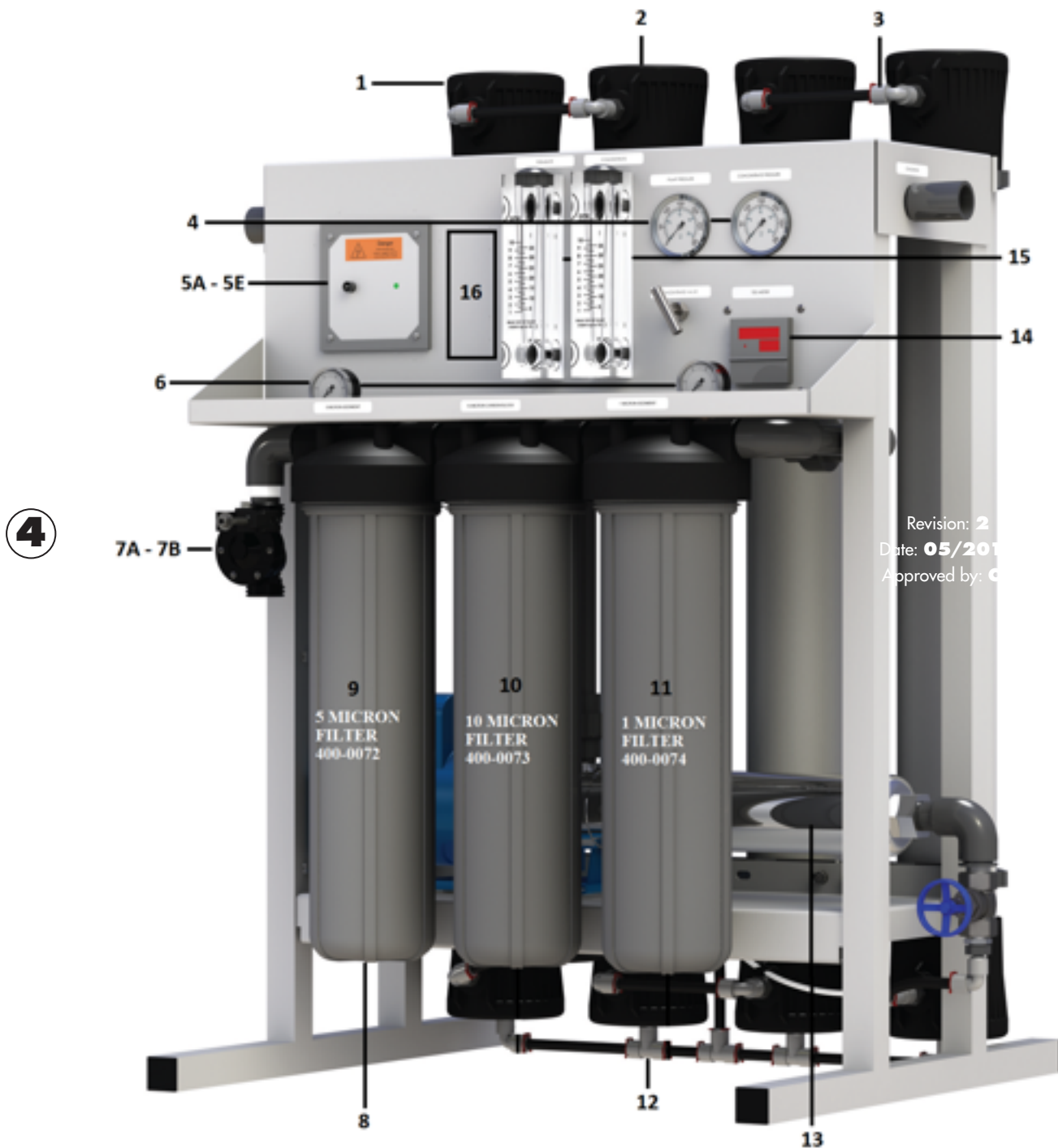
ROS-7000T

- 7,000 Gallons per day system.
- 4 Membranes.
- Pre-Filtration system.
- 1.5HP multistage R.O. pump.



REVERSE OSMOSIS SYSTEMS

Layout



REVERSE OSMOSIS SYSTEMS

Parts List

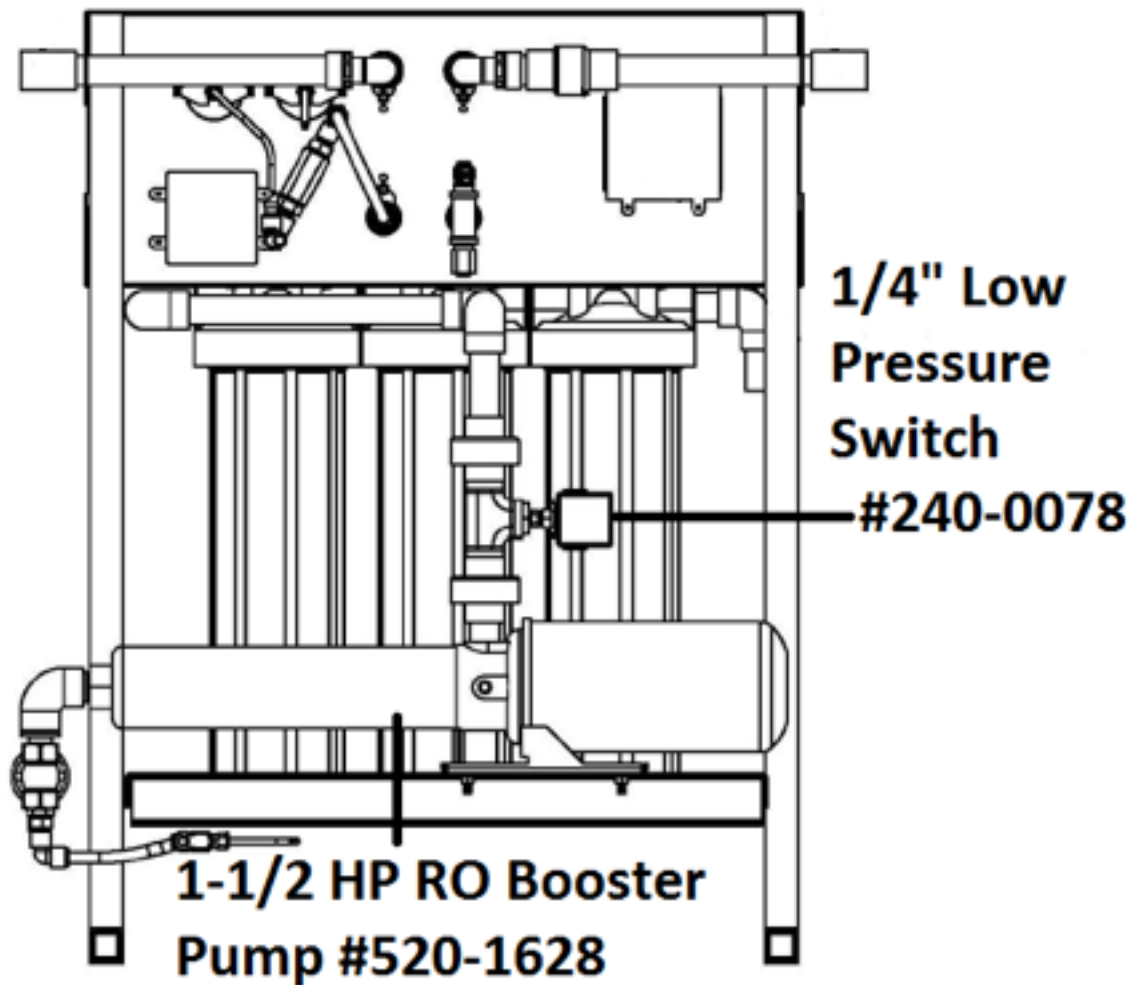
Item No	Part No.	Description	Related to:
1	400-0396	STAINLESS STEEL HOUSING	Reverse Osmosis System
2	400-0398RO	150 PSI RO MEMBRANE (HFI 4040)	Reverse Osmosis System
3	465-1682	1/2" QC X 1/2" QC UNION ELBOW	Reverse Osmosis System
4	470-1119	300 PSI LIQUID FILLED PRESSURE GAUGE	Reverse Osmosis System
5a	700-0120	COMPUTER CONTROLLER 460V 3PH	Reverse Osmosis System
5b	700-1057	COMPUTER CONTROLLER 220V 3PH	Reverse Osmosis System
5c	700-0121	COMPUTER CONTROLLER 220V 1PH	Reverse Osmosis System
5d	700-0120-1	COMPUTER CONTROLLER 460V-24V 3PH	Reverse Osmosis System
5e	700-0121-1	COMPUTER CONTROLLER 220V-24V 1PH	Reverse Osmosis System
6	470-1501	100 PSI LIQUID FILLED PRESSURE GAUGE	Reverse Osmosis System
7a	570-1152RO	1" RO SOLENOID VALVE 220V W/ COIL	Reverse Osmosis System
7b	570-1154AX	1" RO SOLENOID VALVE 24V (2017 & UP)	Reverse Osmosis System
8	460-1004	20" FILTER HOUSING, 4.5" X 20"	Reverse Osmosis System
9	400-0072	5 MICRON CARTRIDGE FILTER	Reverse Osmosis System
10	400-0073	10 MICRON CARTRIDGE FILTER, CARBON	Reverse Osmosis System
11	400-0074	1 MICRON CARTRIDGE FILTER	Reverse Osmosis System
12	465-1685	1/2" QC UNION TEE	Reverse Osmosis System
13	520-1628	1-1/2 HP RO BOOSTER PUMP	Reverse Osmosis System
14	471-1032	TDS PANEL CONTROLLER	Reverse Osmosis System
15	471-1017	1/2" FLOW METER 0-10 GPM	Reverse Osmosis System
16	471-1016	1/2" FLOW METER 1-5 GPM (ROS-7000T)	ROS-7000T ONLY

5

BACK VIEW

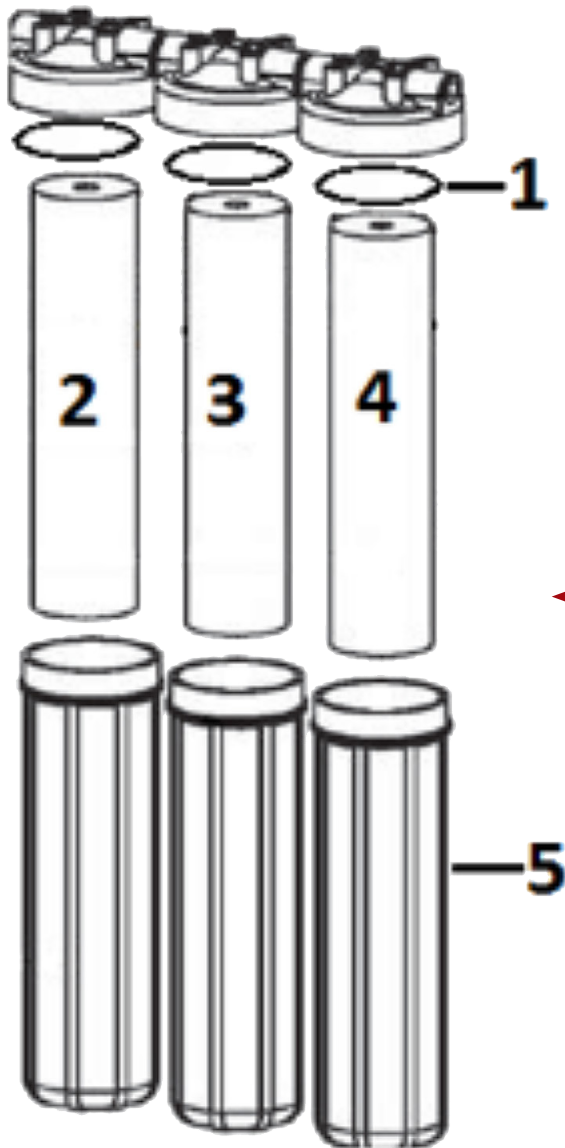
Assembly

6



FILTER HOUSING

Assembly

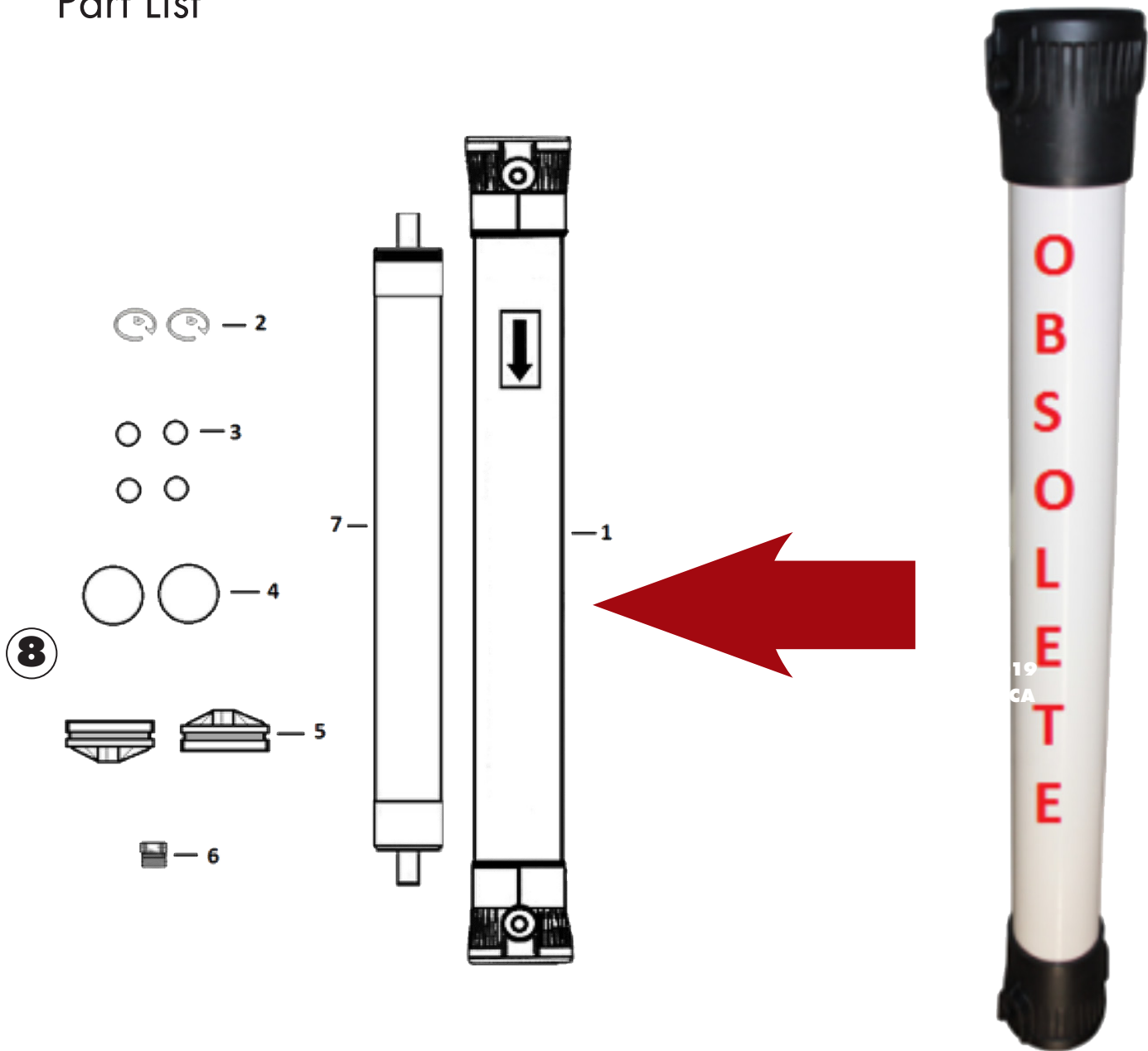


7

Item No	Part No.	Description	Related to:
1	400-1530	O-RING FOR FILTER HOUSING	FILTER HOUSING
2	400-0072	5 MICRON CARTRIDGE FILTER	FILTER HOUSING
3	400-0073	10 MICRON CARTRIDGE FILTER, CARBON	FILTER HOUSING
4	400-0074	1 MICRON CARTRIDGE FILTER	FILTER HOUSING
5	460-1004	20" FILTER HOUSING, 4.5" X 20"	FILTER HOUSING

PVC MEMBRANE HOUSING

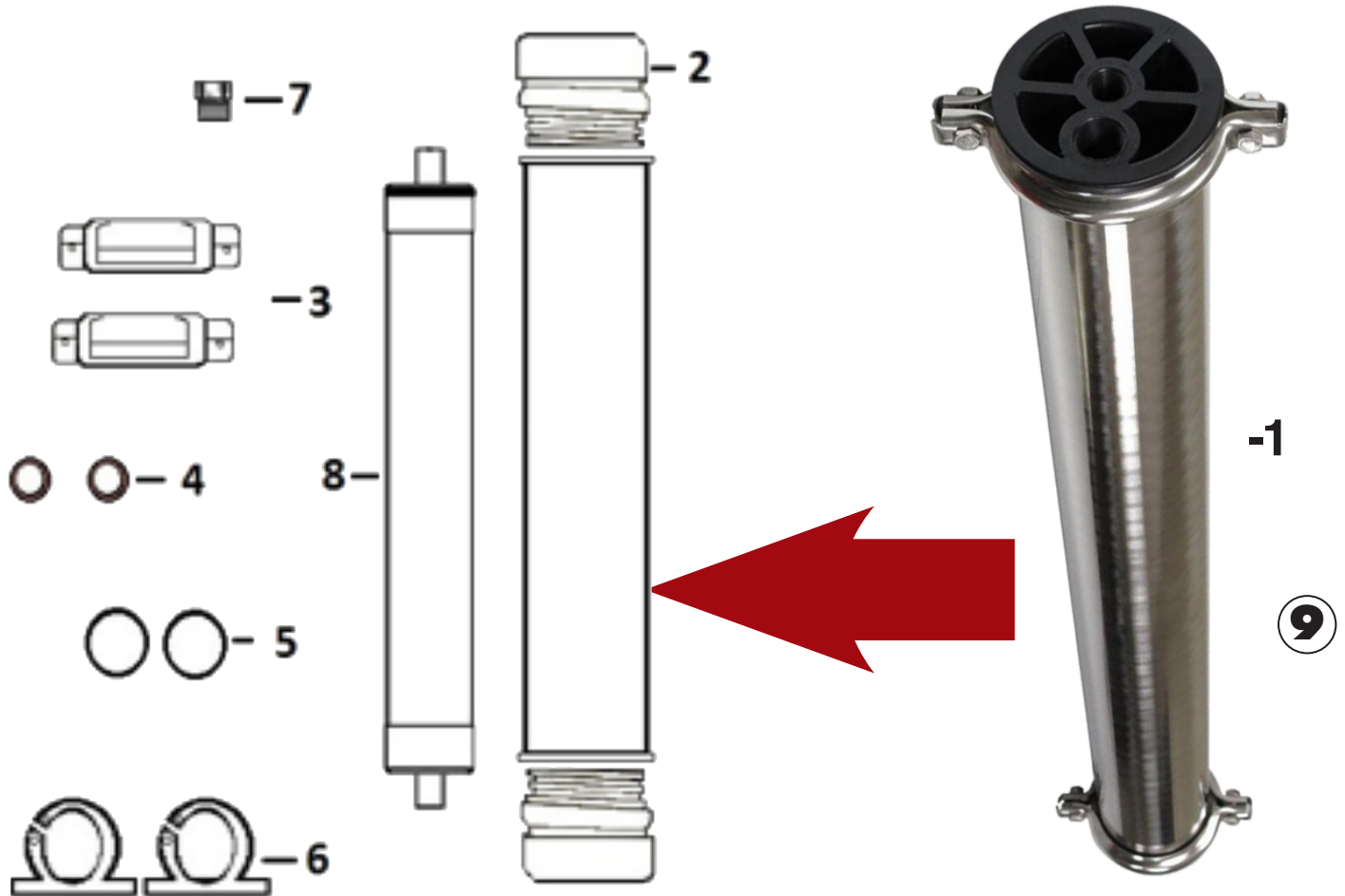
Part List



Item No	Part No.	Description	Related to:
1	400-1400	PVC HOUSING (OBSOLETE)	PVC HOUSING
2	400-1518	4" SNAP RING KIT	PVC HOUSING
3	400-1528	1/2" O-RING FOR PVC HOUSING	PVC HOUSING
4	400-1519	4" O-RING KIT FOR PVC HOUSING	PVC HOUSING
5	400-1526	PVC OPEN END CAP	PVC HOUSING
6	515-1221	1/2" PVC PLUG	PVC HOUSING
7	400-0398RO	150 PSI RO MEMBRANE (HFI 4040)	PVC HOUSING

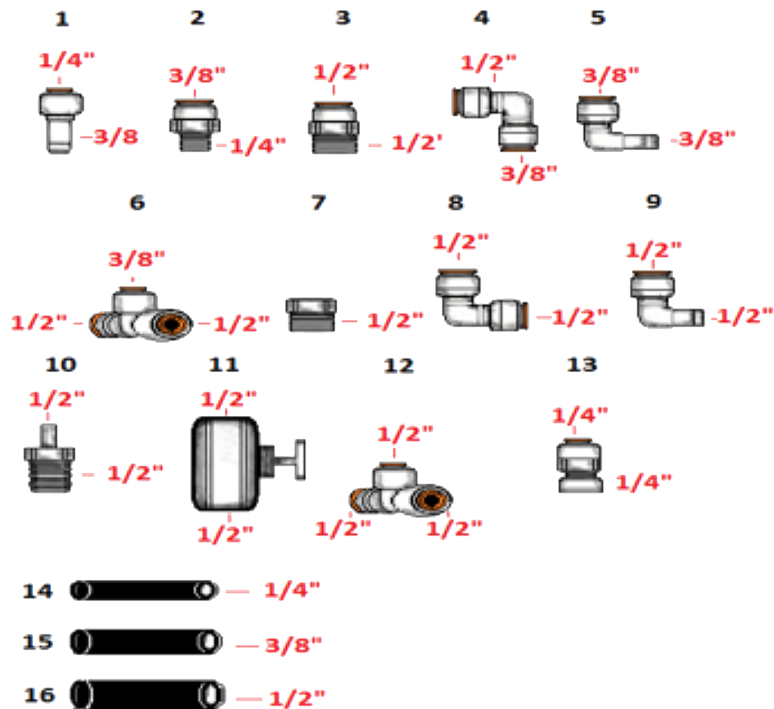
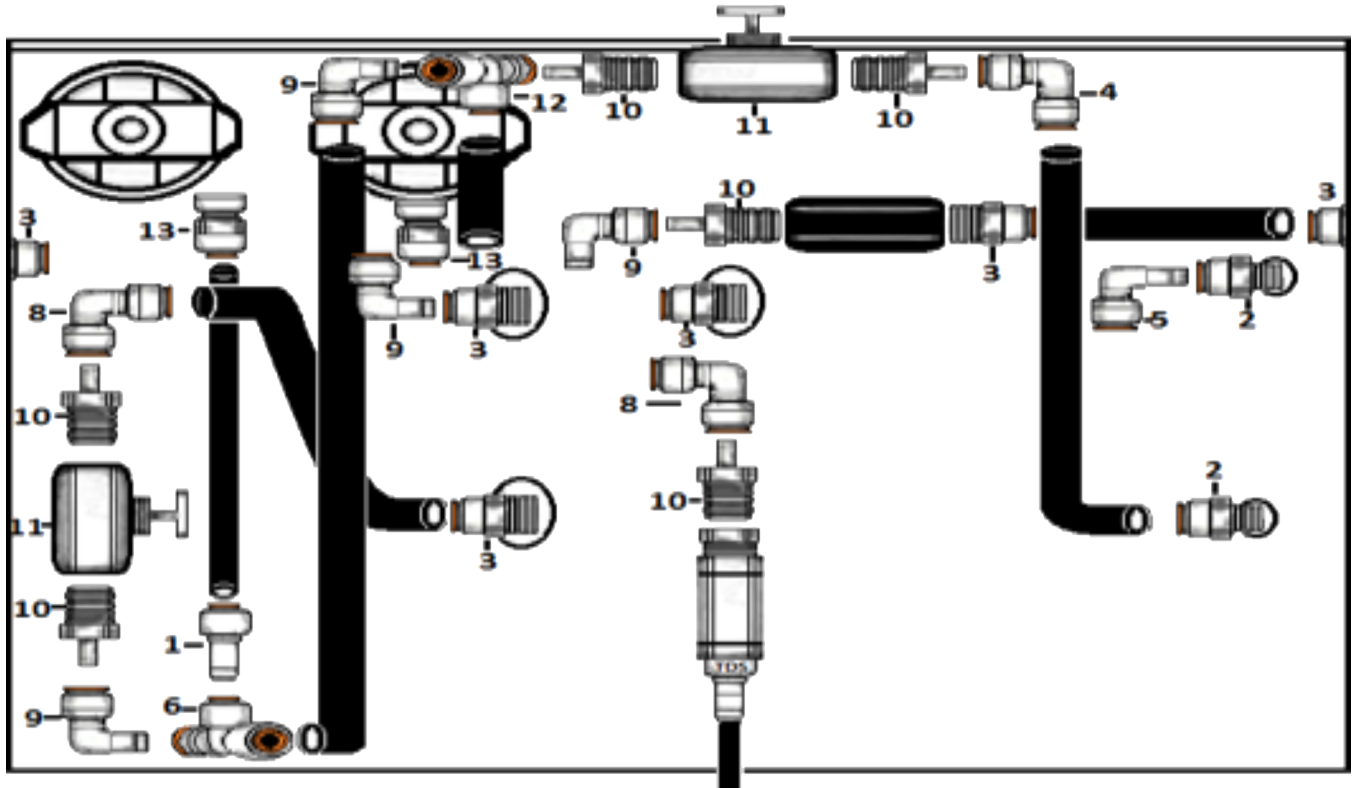
SST MEMBRANE HOUSING

Part List



Item No	Part No.	Description	Related to:
1	400-0396	Stainless Steel Housing (includes items: 3, 4 & 5)	SS Housing
2	400-0512	4-1/2" NYLON END PLUG	SS Housing
3	400-0515	4" STAINLESS STEEL CLAMP	SS Housing
4	400-0513	1/2" O-RING FOR SST HOUSING	SS Housing
5	400-0514	4" O-RING FOR SST HOUSING	SS Housing
6	400-0343	4" BLACK CLAMP FOR SST HOUSING	SS Housing
7	515-1221	1/2" PVC PLUG	SS Housing
8	400-0398RO	150 PSI RO MEMBRANE (HFI 4040)	SS Housing

RO FITTINGS & HOSES



Item No	Part No.	Description	Related to:
1	465-1677	3/8"STEM X 1/4" QC REDUCER	R.O. FITTINGS
2	465-1678	3/8" QC X 1/4" MPT MALE CONNECTOR	R.O. FITTINGS
3	465-1679	1/2" QC X 1/2" MPT MALE CONNECTOR	R.O. FITTINGS
4	465-1681	3/8" QC X 1/2" QC UNION ELBOW	R.O. FITTINGS
5	465-1680	3/8" STEM X 3/8" QC PLUG IN ELBOW	R.O. FITTINGS
6	465-1676	1/2" QC X 3/8" QC REDUCING TEE	R.O. FITTINGS
7	515-1221	1/2" PVC PLUG (R.O. HOUSINGS)	R.O. FITTINGS
8	465-1682	1/2" QC X 1/2" QC UNION ELBOW	R.O. FITTINGS
9	465-1683	1/2" STEM X 1/2" QC PLUG IN ELBOW	R.O. FITTINGS
10	465-1684	1/2" STEM X 1/2" MPT ADAPTER	R.O. FITTINGS
11	570-1301	1/2" SS NEEDLE VALVE	R.O. FITTINGS
12	465-1685	1/2" QC UNION TEE	R.O. FITTINGS
13	465-1675	1/4" QC X 1/4" FPT FEMALE CONNECTOR	R.O. FITTINGS
14	475-3198	1/4" BLACK POLY-FLO TUBING	R.O. FITTINGS
15	475-3200	3/8" BLACK POLY-FLO TUBING	R.O. FITTINGS
16	475-3205	1/2" BLACK POLY-FLO TUBING	R.O. FITTINGS

11

PART NUMBERS

400-0072	5	400-1528	8	471-1017	5
400-0072	7	400-1530	7	471-1032	5
400-0073	5	460-1004	5	475-3198	11
400-0073	7	460-1004	7	475-3200	11
400-0074	5	465-1675	11	475-3205	11
400-0074	7	465-1676	11	515-1221	8
400-0343	9	465-1677	11	515-1221	9
400-0396	5	465-1678	11	515-1221	11
400-0396	9	465-1679	11	520-1628	5
400-0398RO	5	465-1680	11	570-1152RO	5
400-0398RO	8	465-1681	11	570-1154AX	5
400-0398RO	9	465-1682	5	570-1301	11
400-0512	9	465-1682	11	700-0120	5
400-0513	9	465-1683	11	700-0120-1	5
400-0514	9	465-1684	11	700-0121	5
400-0515	9	465-1685	5	700-0121-1	5
400-1400	8	465-1685	11	700-1057	5
400-1518	8	470-1119	5		
400-1519	8	470-1501	5		
400-1526	8	471-1016	5		



N/S Corporation

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