



*Applied for water where classical purification systems become insufficient (seawater, well water with high conductivity etc.), separating all undesirable minerals from water, membran filtration transaction devoted to pure water provision is called **REVERSE OSMOSIS**.*



Mini Budget

Reverse osmosis (RO) is a filtration method that removes many types of large molecules and ions from solutions by applying pressure to the solution on one side of a selective membrane forcing only the small water molecules through the membrane becoming purified or permeate water.

Membrane surface is always kept clean and unplugged by 'Cross Flow' operation that happens inside membran element. By means of 'Cross Flow', while some liquids (element water) pass through membran, some liquid (intensive water) move parallel to membran surface, so protect others to stick to membran. This process enables much more qualified water compared with other filtration systems.

MODEL	FEEDING CAPACITY @20C m³/gün	PERMEATE CAPACITY @20C m³/gün	MEMBRANE DIMENSIONS	MEMBRANE QTY (adet)	RECOVERY (%)	MOTOR POWER
BT 125-1	1.8	0.72	2,5" x 21"	1	40	0.37
BT 125-2	3.75	1.5	2,5" x 40"	1	40	0.37
BT 125-3	5	2	4" x 21"	1	40	0.37
BT 140	10	5	4" x 40"	1	50	0.64
BT 240	20	10	4" x 40"	2	50	0.64
BT 340	25	15	4" x 40"	3	50	1.1
BT 440	33.5	20	4" x 40"	4	50	1.5
BT 540	42	25	4" x 40"	5	50	2.2
BT 640	50	30	4" x 40"	6	50	2.2
BT 840	57.5	40	4" x 40"	8	60	2.2
BT 940	64.5	45	4" x 40"		60	2.2
BT 1040	71.5	50	4" x 40"	10	60	2.2
BT 1240	86	60	4" x 40"	12	60	3
BT 1540	107.5	75	4" x 40"	15	60	3
Mini BT	4,72	1,89	4" x 21"	1	40	0.37

## STANDART FEATURES

- FRP or Stainless Steel Membrane Vessels
- Membranes are TFC Spiral - 2,5" or 4"
- AISI304 stainless steel vertical centrifuge high pressure pump (between BT340-BT1540)
- Brass body rotary type high pressure pump (between BT125-1 and BT240)
- St-37 epoxy painted carbon steel frame
- Cartridge Filter - 5 micron
- U-PVC / Zonder low and high pressure piping
- Selenoid automatic valves
- Flow regulation valves at pump outlet and drain lines (between BT340 - BT1540)
- Low pressure switch
- Inline flowmeters at product and drain water lines
- Glyserin type manometers
- Conductivitymeter at product water line
- RO electronic control card
- 220 V/50Hz/1ph (between BT 125/1 - BT 240)
- 380 V/50Hz/3ph (between BT 340 - BT1540)
- ASC dosage system is not included.



*Budget 240*

## RECOMMENDED FEED WATER LIMITS

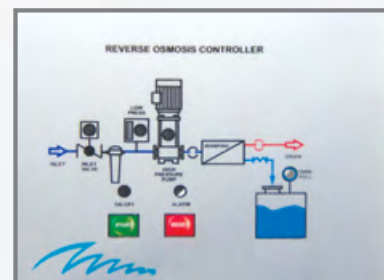
- Feed water TDS : 0-2,000 ppm
- Feed water pressure : 2 to 5 bar
- Feed Water Ph range : 6-8
- Silica (SiO<sub>2</sub>) tolerance : 25 ppm max.
- Min. and max. feed water temperature : (10° C - 30°C )
- Max. Iron (Fe) tolerance : 0.05 ppm (without ASC dosing)  
0,2 ppm (with ASC dosing)
- Hydrogen Sulfide should be removed.
- Turbidity should be removed. (NTU < 1)
- Oil-Grase should be removed.
- SDI < 5
- Microbiological contamination should be removed



Dikey Budget Kontrol Panosu



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