



MTV + P

" MAGIC TAP VALVE + PUMP "

WATER and ENERGY SAVER



Provides Hot Water Without in Vain Draining and Provides Water and Energy Saving; a " BY-PASSED HOT-COLD WATER VALVE TAP AND CIRCULATION PUMP UNIT " Integrated To Combi, Geyser, Boiler, Heat-Pump Water Exchanger Etc.

* International Research was made for two Patent, on October 2016 and January 2017, and for World PCT on October 2017, result is positive. International Investigation Request was made for one Patent to TPE on January 2018,

PROBLEMS AND DEMANDS : Avustralya, Yeni Zelanda ve İngiltere de ortalama musluk debisi max 5.5 L/dak dir.

* In a family of 5, in the Bath Water Loss : 20 Lt/per use, 2000 Lt/month, 20 m³/year

I- In Central System 3 Pipe Installations: With Water Heat Exchanger etc.

* In the sections where the 3rd circulation line does not enter again, it is necessary to drain the water for 3-50 seconds.

* Electricity and Heat Energy Loss from 3 Pipe Inst. of (20 unit) Central System Loss = 2 800 kW/year

II- In local 2 Pipe Installations: With Combi, Geyser, Flat Heat Station Water Exchanger etc. (Villa, Office etc.);

* It's necessary to drain water in vain (1 min.) until hot water comes when starting or stopping hot water usage

* To obtain hot water from the tap without draining the water, it must be a 3rd order circulation

Piping and a "continuous operating" central pump. * 3rd hot water circulation pipe system

needs material, work and place. * The Disc Valves are imported by exchange !



PRODUCTS & VALUE PROPOSITION :

BASIC PRODUCTS: MAGIC TAP VALVE= BY-PASSED DISC VALVED OR ELECTRONİK VALVED (SINGLE)

For 3 Pipe + Circ. Pumped Central System; Hotel, B. Center, Hospital, State Official, Villa etc. At a Stand-By State :

* **Provides:** hot water till mouth of the Tap by transferring back-flow of the water to the 3.water circ. line without draining,

* "At the necessary tap and time, instantly" circulates, hot water is not used in intermediate lines; there is no water circulation, the pump water flow is reduced, Inverter Circulation Pump does not work full capacity and all pipe it

saves % 80 from heat of pipe and electric energy loss. * By calculating the heat and electricity

consumption according to the water flow from the return water amount already existing

in the common water shared central systems; the consumer is encouraged to save.

SUPPLEMENT PRODUCT: BY-PASS PUMP UNIT (BPU) (+ MAGIC TAP VALVE "MTV")

At Stand-By State: (For 2 Pipe Local System; of Housing, Office etc.)

Provides: without draining water and momentary (40 sec) by circulating transferring the back-flow of the water to the cold water line; **provides** hot water o the mouth of the tap, ready to use.

The hot water By-Pass operation stops without interfering the cold water line.

* Can be opened hot water tap without drain water.

* There is no need for an additional 3-line pipeline and modification.

* Pump operates for 40-50 sec., does not work continuously; pump electricity consumption is few and hot water It doesn't mix with cold water.

* In frozen areas, without heating with a program the pump can be operated continuously to prevent water frost

LOSS / GAIN COST : (Water- Energy) 0-60 \$/YEAR

PRODUCT PRICE: Only Disc Valve Tap: 14 \$, Disc Valve+Circ.Pump Unit: Standard Tap: 60 \$, Automatic Magic Tap: 140 \$

AMORTIAL TIME: 0,5-2 YEAR, **INVESTMENT RETURN :** 122000 \$: Only 14 Mont.

SALES RATE : **REQUIREMENT,** **MONETARY SIZE:**

Markets % 70 Of Turkey: 2 Million Units /Year , **50 Million \$/Year,**

Markets % 70 Of the World: 140 Million Units /Year , **3.5 Billion \$/Year,**

In Accordance and Can Use Products With World-Wide Standards, There Is a Possibility To Mass Sell In The World.

INVESTMENT, ADDED VALUE AND BENEFIT:

* Energy Efficiency **Class Label : A+,** * Obligation with New Laws, Legislation In Energy Efficiency By Increase of BEC, BREEAM, LEED Certificates Provides to Get Exemption and Support.

* **Provides Savings Water and Energy In the World :**

* 3.4 Million x 10 M3/Year **Water,** 2400 Giga Watt/Year **Energy** in TURKEY

* Energy = 1.5 Billion kg **CO2** In TURKEY x 60 = In the WORLD.

+++ PROVIDES WATER AND ENERGY SAVING AND SUSTAINABLE WELFARE AND DEVELOPMENT OF ENVIRONMENTAL - ECONOMIC – SOCIAL STATUS!



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