



DEPURTECNO

WASTE WATER PLANTS

DEMINERALIZATORS

WITH IONIC EXCHANGE RESINS

The ionic exchange resins process is based on the capacity of



these resins, to absorb and accumulate the ions contained in highly diluted solutions; the ionic exchange process is particularly recommended for the processing of diluted solutions of metallic salts.

A typical application is the introduction of the discharge water of industries for processing and finishing of metals, into a closed loop circuit. The characteristics of the depurated water supplied are constant and uniform, with high quality standards ($<30 \mu\text{S}$): by washing the metallic materials to process with demineralized water you can avoid the deposit of salt on the finished parts. It is important to

notice that the water consumption in this case, is reduced and limited to the quantity of water necessary to replace the losses for evaporation and transport and that necessary for the operation of resins re-generation.



The instruments for the measurement of electric conductivity, have a display and warning function. The depletion of the resins is signaled by the increase of electric conductivity. Once the values previously set, have been reached. Warning lights and acoustic signals are activated and the can automatically disengage the filters and deviate the water flow to a backup plant placed in parallel.

limit system





The plants can be supplied either according to our standard production or according to the specific needs of the customer. The can be manufactured with modular elements or pre-assembled and pre-tested "TURN-KEY" with AISI 304 STAINLESS STEEL (on the base are placed the electric control cabinet, the pneumatic control cabinet, the pump, the flow controllers, filters, pneumatic control units). The automation of the plant is carried out by multi-function centralized valves (SIATA) o or by individual pneumatic valves. The supervision of the work and regeneration phases is made by an electronic programmer with SIATA standard and by a programmable logic controller (PLC).



Model	Capacity m ³ /hour	Activated carbon	Strong cationic	Weak anionic	Strong anionic	Installed power
DM75-4	1,5	75 liters	75 liters	75 liters	75 liters	0,50 HP
DM100-4	2,0	100 liters	100 liters	100 liters	100 liters	0,75 HP
DM150-4	3,0	150 liters	150 liters	150 liters	150 liters	1,00 HP
DM200-4	4,0	200 liters	200 liters	200 liters	200 liters	1,50 HP
DM300-4	6,0	300 liters	300 liters	300 liters	300 liters	2,00 HP
DM400-4	8,0	400 liters	400 liters	400 liters	400 liters	3,00 HP
DM500-4	10,0	500 liters	500 liters	500 liters	500 liters	3,00 HP
DM600-4	12,0	600 liters	600 liters	600 liters	600 liters	4,00 HP

Modell	Capacity m ³ /hour	Activated carbon	Strong cationic	Strong anionic (*)	Installed power
DM75-3	1,5	75 liters	75 liters	75 liters	0,50 HP
DM100-3	2,0	100 liters	100 liters	100 liters	0,75 HP
DM150-3	3,0	150 liters	150 liters	150 liters	1,00 HP
DM200-3	4,0	200 liters	200 liters	200 liters	1,50 HP
DM300-3	6,0	300 liters	300 liters	300 liters	2,00 HP
DM400-3	8,0	400 liters	400 liters	400 liters	3,00 HP
DM500-3	10,0	500 liters	500 liters	500 liters	3,00 HP
DM600-3	12,0	600 liters	600 liters	600 liters	4,00 HP

All the models are available in three different versions : PLC—IONIC—SIMPLEX, each version can be dimensioned and adapted according to customer needs.

The measurements and capacity are referred to closed circuit de-mineralizators (re-flow).

() According to the application can be replaced with weak anionic.*



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Via N. Copernico, N°18 - Z.I. Bocca di Stella - Località Seano - 59011 CARMIGNANO (PO) - ITALIA
 Telefono:+39 055 8705370 - FAX:+39 055 8708585 - E-mail: depurtecno@tin.it www.depurtecno.com