TSOFTENER

OPERATION
Regeneration is completely automatic in five phases and takes place on the day and at the time chosen by the user.
During regeneration, the water softener automatically enters BY-PASS mode, thus ensuring the supply of water to the user.

PRINCIPLE
Ion exchange with sulfuric resins in sodium cycle with macroporous structure.

ADVANTAGES

THE PRACTICAL ADVANTAGES AND SAVINGS THAT DECALCIFIED WATER OFFERS TO AN AVERAGE FAMILY OF 4 PEOPLE.	SAVINGS
Saving detergents and soaps...	55%
Savings for wear and tear on linen...	33%
Energy saving for hot water heating (2 mm of scale)...	60%
Maintenance savings... (boiler, kettles, dishwashers, pumps)	92%

Soft skin and hair easier to comb. Significant reduction in kidney stones.
There is no need to dry dishes, glasses, cutlery and cars as limescale deposits are completely eliminated.
Furthermore, washed clothes will be softer in the absence of calcium that infiltrates the fabrics, and the colours will remain vivid.
Foods will cook faster and better, boiled foods will be more tender and less fibrous, cooked vegetables will have their natural color, tea and coffee will regain their true flavor, softened water is ideal for bathing because the absence of calcium favors the breathing of the pores of the skin and scalp.

THE TROUBLES OF WATER
The problems caused by water can be summarized as: limescale, deposits and corrosion. Limescale leads to an obstacle in the heat exchange and consequently to energy waste if not to a rapid blockage of the pipes.

They can also cause breakages or failures of the metal in the points of greatest heat exchange, resulting in the need to replace system components.
Deposits, in addition to the above, cause localized corrosion.

SHINING TABLEWARE
Are you tired of seeing your dishes marked or stained after washing?
Descaled water eliminates this problem and at the same time increases the life of your dishwasher.

HAND PROTECTION
The cause of red and damaged hands is usually due to hard water. Soft water is gentle and non-irritating.

BOILER PROTECTION
Soft water prolongs the life of your boiler and reduces scale buildup from hard water minerals. It also saves you money. Less energy (17% to 21%) is needed to heat water in a boiler running on soft water.

PIPE PROTECTION
After a certain period of time, deposits form that eventually clog the pipes. When the pipes are clogged, the flow of water is slower and the water pressure can be drastically reduced. A water softening system can reduce this effect.

PROTECTION OF TAPS
Hard water deposits corrode and clog valves on appliances that come into contact with water. This shortens the life of the installations, causing unnecessary waste of money.

SKIN PROTECTION
Say goodbye to irritation caused by shaving because from now on the razor will glide very smoothly on your face with decalcified water. Both the skin and the razor blades will maintain their longevity.

BODY COOLANT
Run decalcified water into your bath or shower and you will feel a different freshness. You will be clean faster and with less soap residue on your skin. You will come out more relaxed and refreshed than ever.

HAIR SALVATION
A shampoo with fresh water restores shine to your hair which will also be more shiny and docile.

STAINS REMOVAL
When your bathroom installations benefit from decalcified water, you will no longer have unsightly scale around your taps, stains, dirt or mineral deposits that blacken your porcelain and sadden your days.

EASIER CLEANING
Washing floors, tiles and wooden surfaces becomes easier and faster with decalcified water because this water eliminates the waste and soap scum created by hard water.

TABELLA CHOSEN Lt. OF RESIN FOR SOFTENERS

The softener is chosen based on the hardness of the water and the number of apartments. The box resulting from the intersection between hardness and number of apartments determines the choice.
The numbers 9 - 17 - 35 etc. indicate the litres of cationic resin inserted into the water softener cylinders.
In the case of apartments with double bathrooms or with undefinable consumption, it is advisable to consider the appliance with the greatest number of resins.

Number apartments	Number inhabitants	Consumption daily lt.	Liters of resin needed for water softener				
			Water hardness in F°				
			15/30	30/35	35/40	40/45	45/50
1	2 - 4	300 - 600	9	9 - 17	9 - 17	17	17
1 - 2	4 - 8	600 - 1100	9 - 17	17	17	17 - 26	17 - 26
2 - 3	8 - 12	1100 - 1800	26	26 - 35	26 - 35	26 - 35	35
3 - 4	12 - 18	1800 - 2600	26 - 35	35	35	35 - 54	35 - 54
4 - 6	18 - 26	2600 - 3800	35	35 - 54	54	54	54
6 - 8	26 - 32	3800 - 5000	54	54	54 - 80	80	80
8 - 10	32 - 42	5000 - 6200	80	80 - 100	100	100	100
10 - 15	42 - 62	6200 - 9500	100	100	100 - 150	100 - 150	150 - 200
15 - 24	62 - 92	9500 - 13700	150	200	200	250	250
24 - 35	92 - 140	13700 - 21000	250	250	250 - 350	250 - 350	350
35 - 45	140- 180	21000 - 30000	350	350	350	350	350
45 - 60	180 - 240	30000 - 38000	350	350	350	350 - 500	350 - 500
60 - 70	240 - 280	38000 - 42000	350 - 500	350 - 500	500	500	500

Once the required litres of resin have been established, you can choose between various types of water softeners.

Series**FROM/TO**mechanical valve with timed regeneration (technological use)

Series**AF**mechanical valve with volume regeneration (technological use)

Series**FROM/LOGIX**digital electronic valve with timed regenerationself-disinfectant (potable use) Series

DIGIT_SEdigital electronic valve with volume+time regenerationself-disinfectant (potable use)

Series**SUPER_DIGIT**computerized digital electronic valve with volume+time regeneration (countercurrent brine injection for maximum consumption savings)self-disinfectant (potable use)

Series**DA/CG 1.1/2" and DA/I 2"**digital electronic valve for systems over 100 Lt of resin. Available with timed or volume+time regeneration (technological or potable use with the addition of the chlorine producer)

TOAUTOMATIC WATER SOFTENERS

JUNIOR SERIES

Miniautomatic water softeners**self-disinfectants**with digital electronic timer for timed regeneration (MOD. JUNIOR/T/M5) and volume regeneration (mod. JUNIOR/V/M5). For drinking water use. They are equipped with **hardness mixers**integrated into the valve body and**chlorine producers**.

Model Mini Cabin	Lt./Hour	Cyclic	Attacks	Dimensions in mm.	
				Base	Height
JUNIOR/T/M5	600	30	1"	230 x 430	550
JUNIOR/V/M5	600	30	1"	230 x 430	550

DA/C SERIES

Automatic water softeners**DA/C Series**with timed regeneration. For technological use (the addition of a self-disinfection device: the chlorine producer mod. PRODCLOR, makes them suitable for drinking water use). They are equipped with**hardness mixer**integrated into the valve body.

Model Cabin cruiser	Lt./Hour	Cyclic	Attacks	Dimensions in mm.	
				Base	Height
FROM/CM 9	800	54	1"	320 x 500	670
FROM/CM 17	1200	105	1"	320 x 500	1140
FROM/CM 26	2200	160	1"	320 x 500	1140
FROM/CM 35	3000	215	1"	320 x 500	1140

Model Two Bodies	Lt./Hour	Cyclic	Attacks	Height in mm.
FROM/TO 17	1200	105	1"	1090
FROM/TO 26	2200	160	1"	1090
FROM/TO 35	3000	215	1"	1090
FROM/TO 54	4000	330	1"	1650
FROM/TO 80	4500	490	1"	1650
FROM/TO 100	5000	600	1"	1840

DA/LOGIX SERIES

Automatic water softeners**self-disinfectants**DA/LOGIX series with digital electronic timer for timed regeneration. For drinking water use. They are equipped with**hardness mixer**integrated into the valve body and**chlorine producer**.

Model Cabin cruiser	Lt./Hour	Cyclic	Attacks	Dimensions in mm.	
				Base	Height
FROM/LOGIX/M9	800	54	1"	320X500	670
FROM/LOGIX/M 17	1200	105	1"	320X500	1140
FROM/LOGIX/M 26	2200	160	1"	320X500	1140
FROM/LOGIX/M35	3000	215	1"	320X500	1140

Model Two Bodies	Lt./Hour	Cyclic	Attacks	Height in mm.
FROM/LOGIX/17	1200	105	1"	1090
FROM/LOGIX/26	2200	160	1"	1090
FROM/LOGIX/35	3000	215	1"	1090
FROM/LOGIX/54	4000	330	1"	1650
FROM/LOGIX/80	4500	490	1"	1650

AF SERIES

Automatic water softeners**AF Series**with volume regeneration. For technological use (the addition of a self-disinfection device: the chlorine producer mod. PRODCLOR, makes them suitable for drinking water use). They are equipped with a**hardness mixer**integrated into the valve body.

Model Cabin cruiser	Lt./Hour	Cyclic	Attacks	Dimensions in mm.	
				Base	Height
AF/M9	800	54	1"	320x500	670
AF/M17	1200	105	1"	320x500	1140
AF/M26	2200	160	1"	320x500	1140
AF/M35	3000	215	1"	320x500	1140

Model Two Bodies	Lt./Hour	Cyclic	Attacks	Height in mm.
AF 17	1200	105	1"	1090
AF 26	2200	160	1"	1090
AF 35	3000	215	1"	1090
AF 54	4000	330	1"	1650
AF 80	4200	490	1"	1650
AF 100	4500	610	1"	1840

AUTOMATIC WATER SOFTENERS

DIGIT/SE SERIES

Automatic water softeners**DIGIT/SE Series**digital reading**self-disinfectants**with volume + time regeneration. For potable use. The system of**electronic phase control**allows a reduction in salt consumption. They are equipped with**hardness mixer**integrated into the valve body and **chlorine producer**.

Model Cabin cruiser	Lt./Hour	Cyclic	Attacks	Dimensions in mm.	
				Base	Height
DIGIT/SE/M 9	800	54	1"	320x500	670
DIGIT/SE/M 17	1300	105	1"	320x500	1140
DIGIT/SE/M 26	2200	160	1"	320x500	1140
DIGIT/SE/M 35	3000	215	1"	320x500	1140

Model Two Bodies	Lt./Hour	Cyclic	Attacks	Height in mm.
DIGIT/SE/17	1300	105	1"	1090
DIGIT/SE/26	2200	160	1"	1090
DIGIT/SE/35	3000	215	1"	1090
DIGIT/SE/54	4000	330	1"	1650
DIGIT/SE/80	4200	490	1"	1650
DIGIT/SE/100	4500	610	1"	1840

SUPER/DIGIT SERIES

Automatic water softeners**SUPER/DIGIT Series**digital reading**self-disinfectants**with volume + time regeneration. For potable use. The exclusive system of the**Countercurrent brine injection** allows a significant reduction in salt consumption. They are equipped with**hardness mixer**integrated into the valve body and**chlorine producer**. They are equipped with a sophisticated computerized control unit that provides the user with all the information on their work: display of the instantaneous water flow, the number of days that have passed since the last regeneration, the volume of water used between the last two regenerations, the remaining reserve of softened water, the water consumed the previous day.

Model Cabin cruiser	Lt./Hour	Cyclic	Attacks	Dimensions in mm.	
				Base	Height
SUPER/DIGIT/M 9	800	54	1"	320x500	670
SUPER/DIGIT/M 17	1300	105	1"	320x500	1140
SUPER/DIGIT/M 26	2200	160	1"	320x500	1140
SUPER/DIGIT/M 35	3000	215	1"	320x500	1140

Model Two Bodies	Lt./Hour	Cyclic	Attacks	Height in mm.
SUPER/DIGIT/17	1300	105	1"	1090
SUPER/DIGIT/26	2200	160	1"	1090
SUPER/DIGIT/35	3000	215	1"	1090
SUPER/DIGIT/54	4000	330	1"	1650

AF/7000 SERIES

Automatic water softeners**AF/7000/VT series self-disinfecting**with digital electronic timer for volume + time regeneration. For drinking water use. They are equipped with**hardness mixer** integrated into the valve body, of**chlorine producer**and exclusive system of**double countercurrent** for capillary cleaning of resins.

Model Two Bodies	Lt./Hour	Cyclic	Attacks	Height in mm.
AF/7000/VT 54	4500	330	1.1/4"	1650
AF/7000/VT 80	4800	490	1.1/4"	1650
AF/7000/VT 100	5200	600	1.1/4"	1840
AF/7000/VT 150	6000	900	1.1/4"	2000

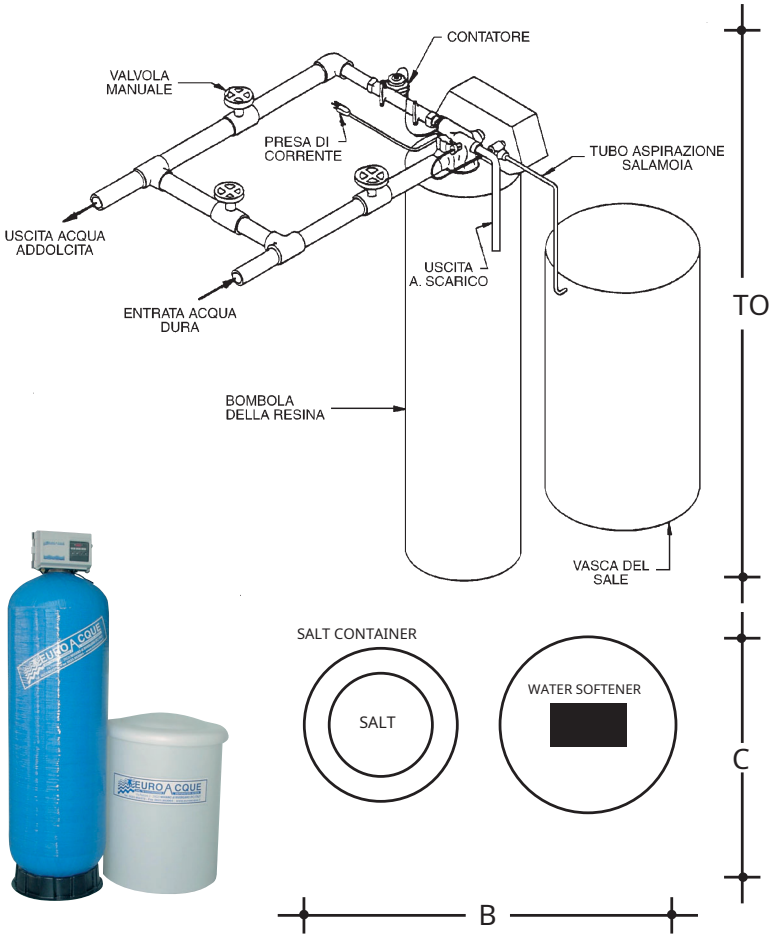
ADD. MONOBLOCK CABIN MODELS

Space-saving monoblock versions for all models with 9-17-26-35 liter resins. The Euroacque water softener cabinets are complete with salt cover and upper cover with an exclusive and functional design with transparent drop porthole.

FOR HIGHER CAPACITIES AND DOUBLE COLUMN WATER SOFTENERS CONSULT OUR TECHNICAL OFFICE

TO INDUSTRIAL SERIES WATER SOFTENERS

TECHNICAL DATA SHEET STANDARD WATER SOFTENERS DA/CG and DA/I TIMED OR VOLUMETRIC



TERMS OF USE

- Pressure 2 - 5 bar
- Temperature 40°C max
- Hardness H_2Or raw 60°F max
- Iron H_2Or raw 0.5 ppm max
- Suspended solids exempt
- Power supply voltage 220 V - 50 Hz

OPERATING CONDITIONS

- *Pressure 2 - 5 bar*
- *Max temperatures 40° C*
- *Hardness of untreated H_2Or max 60° F*
- *Iron in untreated H_2Or max 0.5 ppm*
- *Suspended solids: none*
- *Power supply voltage: 220 V - 50 Hz*

For each softener the pressure loss with 3 BAR supply is contained in 06/07 BAR.

model *model*	hourly flow rate m^3 *hourly flow rate* m^3	resin Lt. *resin l.*	cycle m^3/°F *cycle* m^3/° F	NaCl kg. *NaCl kg.*	inch in-out fittings *in-out unions inches*	overall dimensions mm. *overall dimensions in mm*			brine tank Lt. *brine tank l.*
						TO	B	C	
FROM/CG 100	6.5	100	600	20	1 1/2	2000	1170	350	300
FROM/CG 150	7.5	150	900	30	1 1/2	2000	1270	450	300
FROM/CG 200	9	200	1200	40	1 1/2	2000	1465	550	500
FROM/CG 250	10	250	1500	40	1 1/2	2000	1470	550	500
FROM/TO 150	9	150	900	30	2	2000	1270	450	300
FROM/TO 200	13	200	1200	40	2	2060	1420	860	500
FROM/TO 250	15	250	1500	40	2	2000	1470	550	500
FROM/TO 350	17	350	2100	60	2	2200	1710	610	800
FROM/TO 500	25	500	3000	80	2	2200	2030	770	1100
FROM/IU 600	40	600	3600	100	3	2500	2200	930	1100
FROM/IU 800	44	800	4800	130	3	2400	2400	1100	1500
FROM/IU 1000	48	1000	6000	160	3	2400	2400	1100	1500

The data above exposed are to be considered purely indicative as the quality of the water it wasn't predetermined. Our technical office is available to propose the device most suitable.

Euroacque reserves the right to make technical changes without notice- *Euroacque reserves the right to make technical changes without prior notice.*

SOFTENING PROCESS

To obtain softened water, strong cationic resins regenerated with sodium chloride are used. Under these conditions, the resins acquire the property of exchanging calcium and magnesium salts (hardness) into the corresponding sodium salts.

TECHNICAL FEATURES

• resin tank

It is made of polyester reinforced with fiberglass or in steel entirely hot-dip galvanized, an additional external protection with polyurethane paint improves its aesthetic appearance. The special DA/IU series is equipped with a carbon steel tank and all the parts that make up the softener are resistant to corrosion.

• brine tank

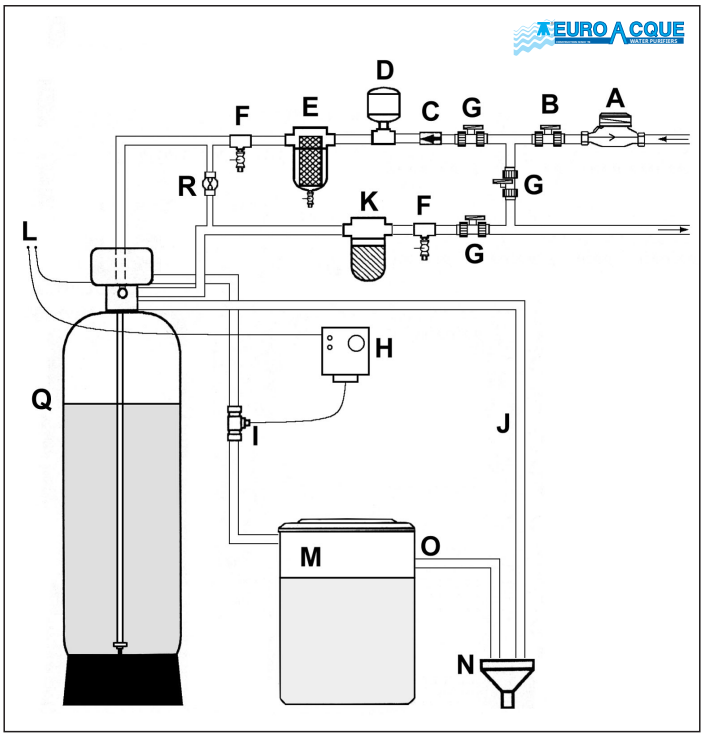
It is made of polyethylene and includes:
- float valve
- salt support grate
- too full of security

• digital electronic automatic valve

It is a monoblock type with hydraulic operation,**made of bronze**.
- interchangeable ejector for brine suction.
- automatic by-pass of raw water during resin regeneration.

WATER SOFTENER FEATURES

The sweeteners of the series**FROM/CG**And**FROM/TO**They are equipped with a valve with**digital electronic control unit**of command for the timed programming of regenerations. The versions **FROM/CG/V**And**FROM/I/V**They are equipped with a volumetric counter for operation even with water volumes.
The high reliability of the valve group is ensured by the simplicity of operation and the quality of the materials used.
The resin regeneration occurs through the movement of two Teflon-coated steel pistons that open or close the passages involved in the various phases. During regeneration, which is normally set at night, water is still ensured to the users by means of an internal automatic by-pass. The volumetric model is preferable in cases of inconsistent water consumption and therefore difficult to determine the regeneration program.
The softener is set to regenerate at night and takes into account a working day's reserve of softened water (delayed regeneration).

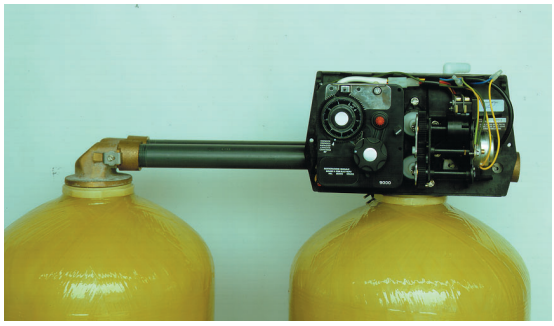


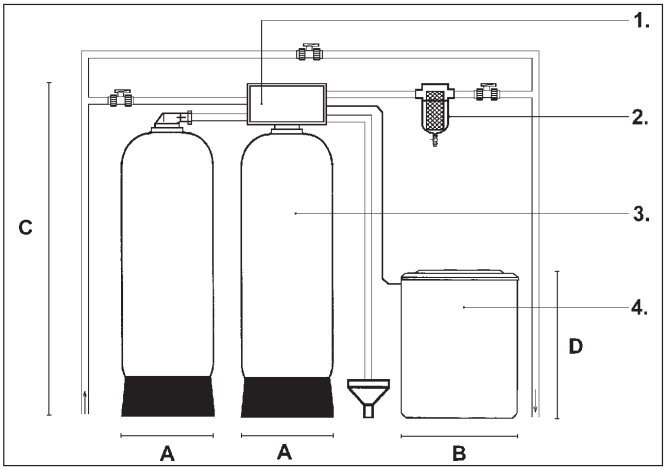
EUROACQUE WATER SOFTENER industry series

TO)*Counter*
B)*Shut-off valve*
C)*Check valve*
D)*Anti-water hammer vase*
AND)*Euroacque sand filter*
F)*Sample collection tap*
G)*Bypass valve*
H)*Disinfection control unit*
THE)*Disinfection probe*
J)*Water softener drain pipe*
K)*Dispenser of Euroacque polyphosphates*
THE)*Power outlet*
M)*Brine vat*
N)*I unload*
OR)*Too full*
Q)*Euroacque Water Softener*
R)*Hardness regulator to be made with 3/4" handwheel valve*

TODOUBLE VOLUME WATER SOFTENERS DVA/F/9000-9500 SERIES

This type of system is essential when you need to produce softened water 24 hours a day. The system consists of 2 softeners with automatic operation. When one column has produced the required amount of softened water, it automatically goes into regeneration and carries out the washing phases while the other begins to supply softened water. The exchange of the column is controlled by a mechanical counter, inserted in the control valve.





TECHNICAL DATA

Test pressure	: 7 Bar
Operating pressure	: 3 - 4 Bar
Min. operating press.	: 1.8 Bar
Supply voltage	: 220V - 50HZ
Min. temperature	: + 4°C
Max temperature	: + 40°C
Power consumption	: 10 Watt
Pressure drop	: 04 BAR to 3 BAR

1)*Centralized control valve in bronze.*
2)*FC or LINDO series cartridge filter.*
3)*No. 2 fiberglass cylinders.*
4)*Polyethylene brine tank.*

Model	Attacks	Cyclic	Flow rate max m3/h	Salt kg.	Dimensions in mm.			
					TO	B	C	D
DVA/F/9000/35	1"	215 x 2	4	5	258	440	1100	630
DVA/F/9000/54	1"	330 x 2	5	10	258	500	1660	750
DVA/F/9000/80	1"	480 x 2	5	15	334	500	1660	750
DVA/F/9000/115	1"	690 x 2	5	22	360	600	1850	1000
DVA/F/9000/150	1"	900 x 2	5	27	400	600	1850	1060
DVA/F/9000/200	1"	1200 x 2	5	36	510	800	1850	910
DVA/F/9000/250	1"	1500 x 2	5	45	510	800	1900	910

Model	Attacks	Cyclic	Flow rate max m3/h	Salt kg.	Dimensions in mm.			
					TO	B	C	D
DVA/F/9500/100	1.1/2"	610 x 2	7.3	19	350	500	1850	1060
DVA/F/9500/150	1.1/2"	900 x 2	8.7	27	400	600	1850	1060
DVA/F/9500/250	1.1/2"	1500 x 2	10	45	510	800	1900	910
DVA/F/9500/350	1.1/2"	2100 x 2	10	63	610	800	2100	1060

The measurements are indicative only.

FOR HIGHER CAPACITIES PLEASE CONTACT OUR SALES OFFICE.