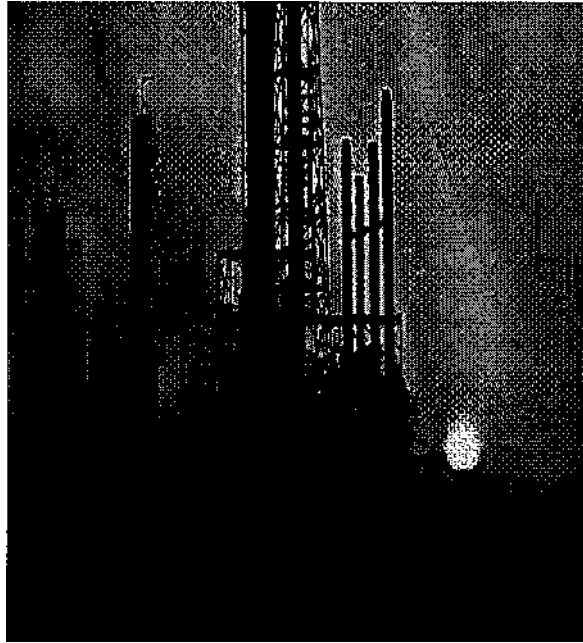


DESULPHURIZATION SYSTEM

TABLE OF CONTENTS

- 1- TECHNICAL SPECIFICATIONS
- 2- LIST OF EQUIPMENT AND INSTRUMENTS
- 3- CATALOGS
- 4- REFERENCE LIST
- 5- DRAWINGS
- 6- CERTIFICATES



DESULPHURIZATION

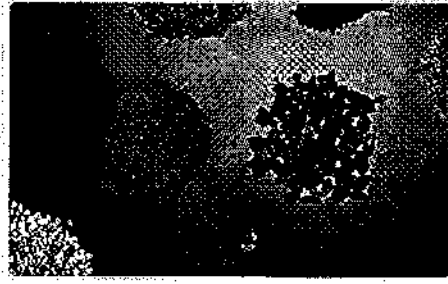
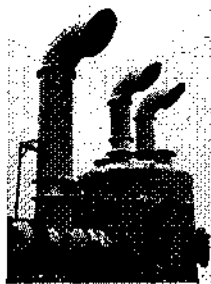
CEYKA

www.ceyka.com.tr

DESULPHURIZATION SYSTEMS FOR INDUSTRIAL FACILITIES AND WASTEWATER TREATMENT PLANTS

500-50000 M³/H
0-5000 PPMV H₂S
99% GİDERİM

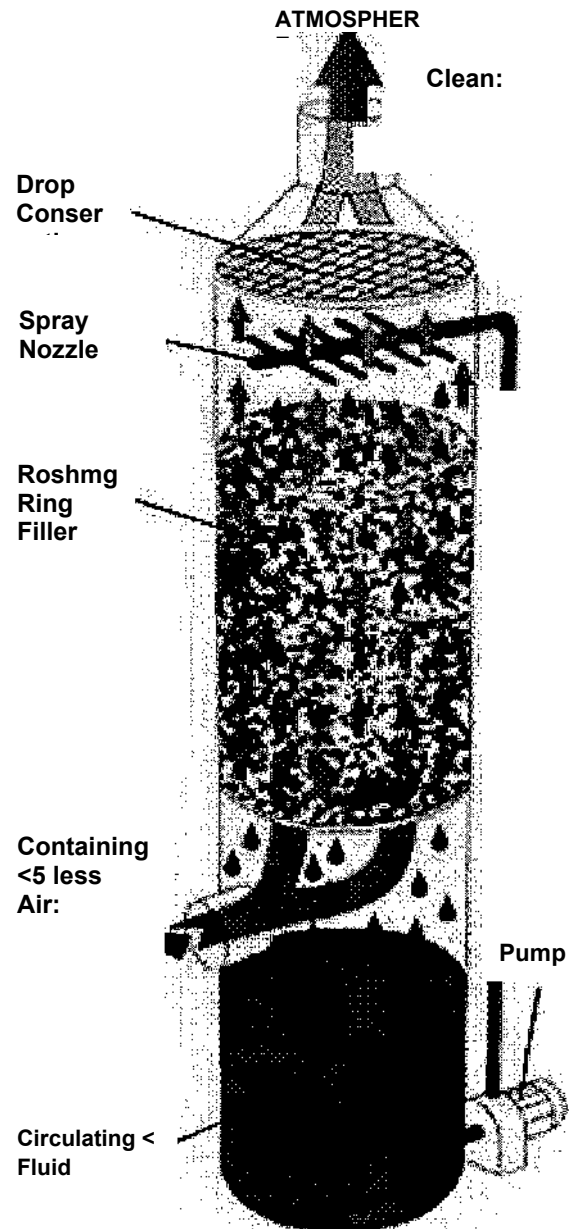
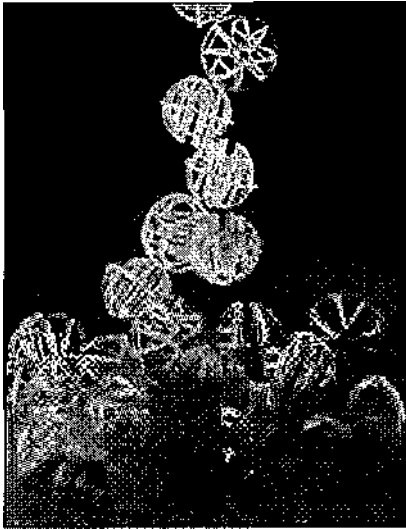
- ❖ AKTİF KARBON FİLTRELER
- ❖ PUROMAG FİLTRELER
- ❖ KİMYASAL YIKAMA İLE GAZ GİDERİM
- ❖ KİMYASAL SİSLEME İLE KOKU GİDERİM



CEYKA

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FILLED WET GAS SCRUBBER TOWERS



CEYKA

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TECHNICAL SPECIFICATIONS



- Heavy Duty Industrial Type PP Body
- Maintenance Cover.
- Full cones Spiral spray Nozzle.
- Water Spray Dispensing Pipes
- Built-in Circulation Tank
- Scruber Inlet and Outlet Flanges.
- Water Pumps, Level Sensor, Pressure Gauges, Flow Sensor and Flow Control, Pneumatic Actuated Feed Valve, Ball Valves, Water Discharge Valves and Instruments in the Circulation System.
- NaOH and Sodium Hypochlorite Tanks, Level Sensors, Dosing Pumps, Check valves, Ball Valves and Instruments,
- Spray Line Fittings Connection and Fittings Connections of Tank Supply and Discharge Valves in the Circulation System.
- Electrical Control Panel

PBW Scrubber:

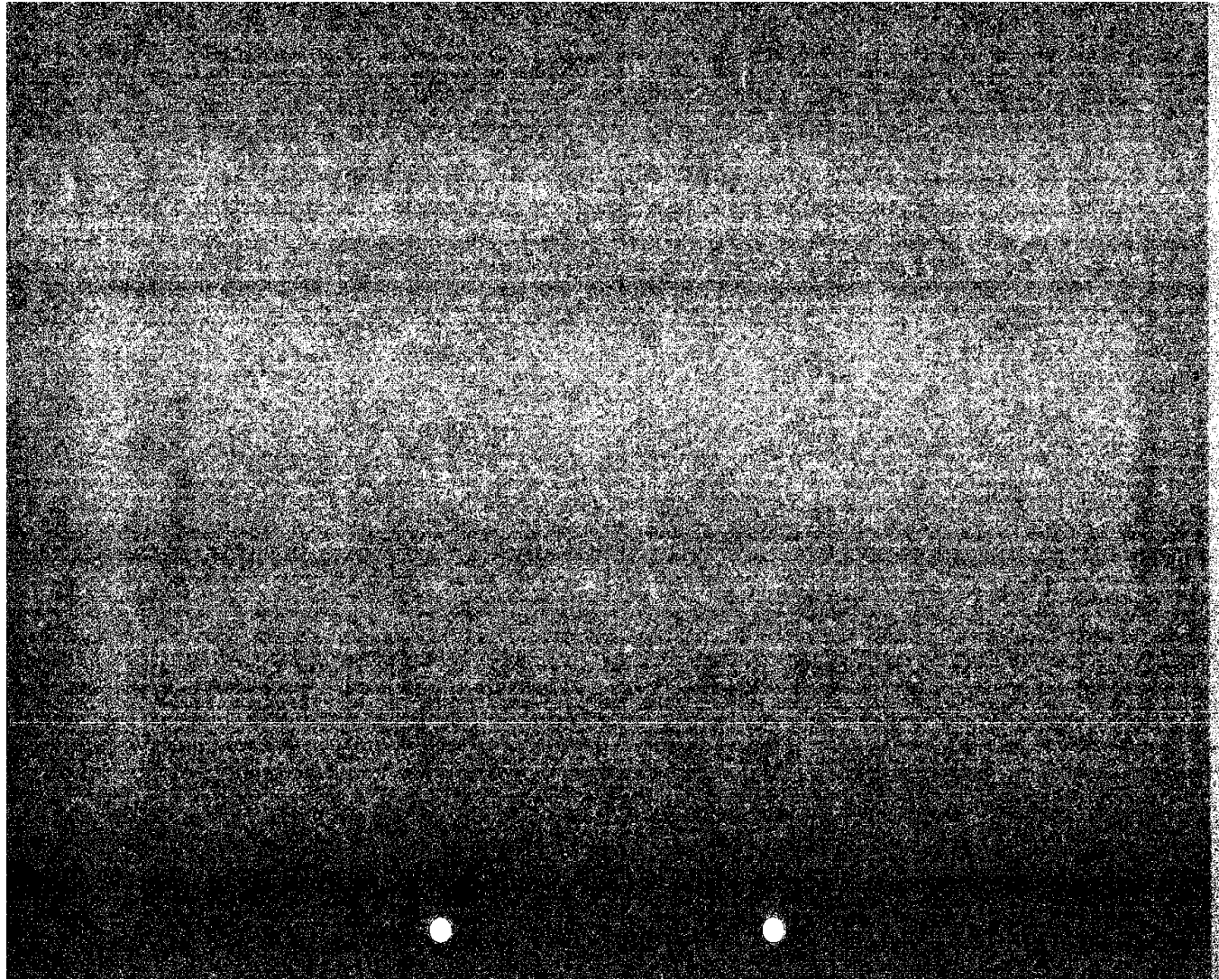
These Systems ensure that Odor, Acid gases and vapours and Polluting Gases containing Harmful Emissions are absorbed together with Water and Auxiliary chemical liquids in Industrial and Commercial Facilities and that the cleaned air is safely discharged into the Atmosphere. They have a wide range of uses in many sectors and offer Excellent Cleaning for Waste Gases.

Energy consumption is at the lowest stage. Vertical and Horizontal types are available. These units, which are frequently used in the cleaning processes of Harmful Gases or Vapours such as NH₃, NO_x, HCl, SO₂, H₂S and HNO₃ in the industry, provide the opportunity for the removal and recycling of the gas compound by performing different chemical reactions for each gas. They are manufactured in a heating and abrasion resistant structure.

Depending on the process to be used, it can be manufactured from materials such as AISI 304 - AISI 316 Stainless or GRP (FRP), PE, PP and HDPE. It has an Emission Value of up to 99%.

ODOR THRESHOLDS AND EXPOSURE LIMITS (EH40:2002) (PPM)

	ODOUR THRESHOLD	LONG TERM EXPOSURE	SHORTTERM EXPOSURE
Ammonia	5.3	25	35
Chlorine L	0,3	0.5	1
Dimethylamine	0.042	2	6
Dimethyl Sulphide	0.0009		
Ethyl Acrylate	0,00043	5	15
Hydrogen Chloride	1.2	1	5
Hydrogen Sulphide	7 0.00043	5	10 '
Methyl Mercaptan	0.00196		
Methyl Methacrylate	0.19	50	100
Phenol	0.043	2	10
Sulphur Dioxide	0.42	2	5
Trimethylamine	0.0019	10	15



.....
1650 M³/H

DOMESTIC WASTEWATER TREATMENT
PLANT DESULPHURIZATION WET
SCRUBBER

DESULFURIZATION SYSTEM EQUIPMENT AND INSTRUMENT LIST

1- SCRUBBER

Flow:	600 mm
Input H2S Value:	300 mbar
Output H2S Value:	Max. 99%
Type	H300x400m
Body Material	5.000 m
Diameter	2.5 -3 m/s
Body Compressive Strength	1 m3
Efficiency	~8.5 - 9, 600mV
Gas Inlet	1,000 x 1,000 x H 5,000 mm
Body Height	1 piece
Gas Speed	1650 m3/h
Circulation Tank Volume	250 mmSS
Tank PH Value Scrubber	Direct Coupled
Dimensions Quantity	3,000 rpm
	1+1 piece

1.1 Instruments

Drip Catcher	0600 x 200 mm
Sipping Line pH Meter	1 row spray nozzles
ORP Meter	4-20mA 2 Relay Output, LCD
Pressure Meter	4-20mA 2 Relay Output, LCD
Level Meter	4-20mA, 0-6 -1. 000mbar interval
Flow Meter	

2- FAN (EXPROOF)

Capacity: 1650 m3/h
Pressure :250 mmSS
Type: Direct Coupled Radial
Age: 3000 d/d
Quantity: 1 + 1 piece

3- CIRCULATION PUMP (EXPROOF)

Flow	:	5 m ³ /h
Pressure	:	3 bars
Brand	:	Affetti
Origin	:	Italy
Engine Power	:	1.1 kW
Engine Speed	:	3,000 d/d
Quantity	:	1+1 piece

4- NaOH DOSING PUMP (EXPROOF)

Flow		10 L/h
Brand		Seko
Origin		Italy
Quantity		1+1 piece

5- NaOCl Dosing Pump (Exproof)

Flow		10 L/h
Brand		Seko
Origin		Italy
Quantity		1+1 piece

6- NaOH NEUTRALIZATION TAN

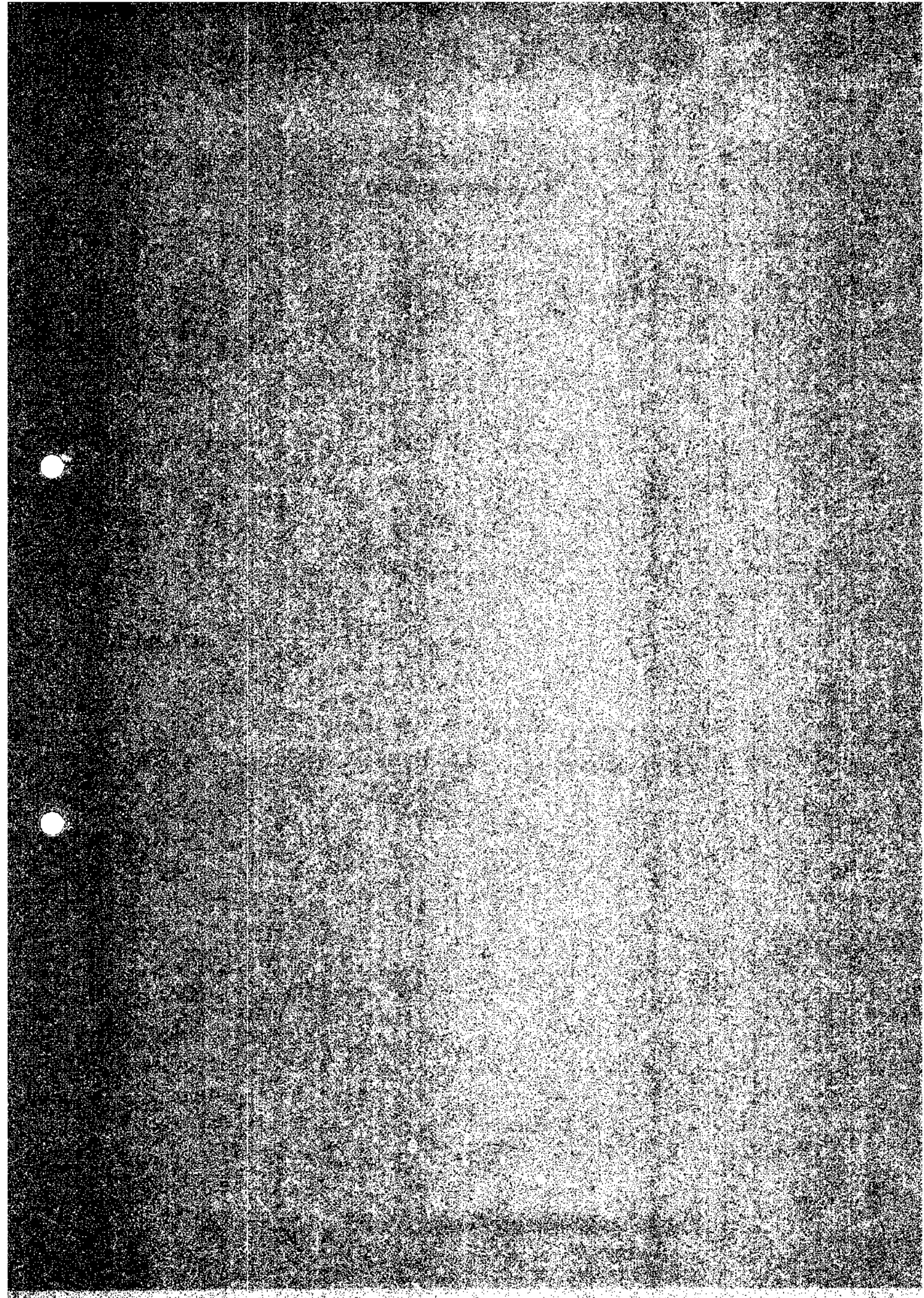
Capacity		500 L
Material		PE
Quantity		1 piece

7- NAOCl NEUTRALIZATION TANK

Capacity		500 L
Material		PE
Quantity		1 piece

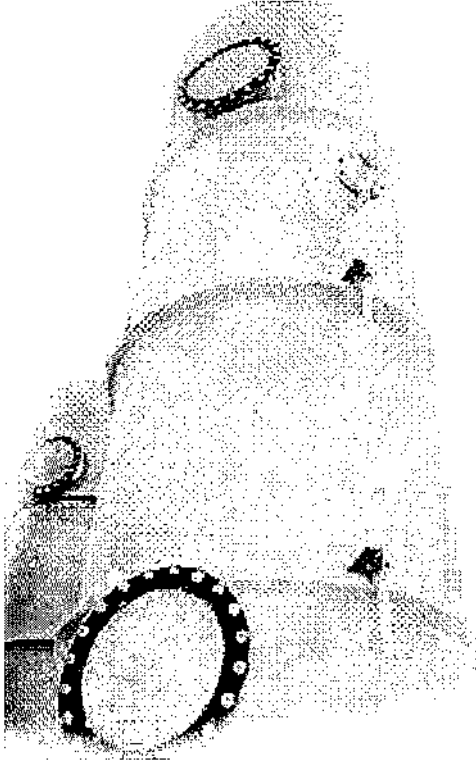


CEYKA KIMYA SANAYI VE DIŞ TİC. LTD. STI.





GAS AND ODOR REMOVAL SYSTEMS



They provide consultancy and project-based services for Ceyka gas and odor treatment:

The air pollution problems we have solutions for are as follows:

- SOX - Sulfur dioxide wastegases consisting of fossil fuels
- Wastewater treatment plants and landfills
- The smell of the premises
- Waste gases consisting of solvents and VOCs Dioxin-Furan

Solutions:

- DESOX-FGD -Desulphurization plants
- Activated Carbon Filtration
- Zeolite filters
- Biofiltration
- Ozone

CEYKA

CEYKA CHEMICAL INDUSTRY AND FOREIGN
TRADE LTD.STI. Address : Ferhat paşa Mh.
Karadeniz Cd.No:47 Alayehir/Istanbul /Turkey
Phone : 0090 216 660 04 10-11
Fax : 0090 216 660 04 71
Web; www.ceyka.com.tr email:
info@ceyka.com.tr

CEYKA

< CHEMICALS

ECOPOL - FLOCCULANTS (POL1ELEKTROLITLER) o Anionic-Cation i k-N

on ionic o Powder-Emulsion-Dispersion

COAGULANTS

o Inorganic Coagulants

o Organic Coagulants

ECOFOAM- DEFOAMERS

VIPOLE - ANTISCALANTS-DISPERSANTS

FILTRATION PRODUCTS

o ECOCARB-Activated Carbons

o ARION- Ion Exchange Resins

o PUROMAG- Ammonia and Heavy Metal Remover

o ECOPUR-Anthracite

o DIATOMITE

CKS - CARE CHEMICALS

<FACILITIES

- **MEMBRANE SYSTEMS**
 - o RO- Reverse Osmosis
 - o NF- Nanofiltration
 - o UF- Ultrafiltration
 - o MF-Microfiltration
- **ION EXCHANGE SYSTEMS**
 - Demineralization
 - Smoothing
 - DE alkalization
- **FILTRATION SYSTEMS**
 - Automatic Backwash Filters
 - Activated Carbon Filters
 - Multimedia Filters
 - Anthracite Filters
- **SLUDGE DEWATERING SYSTEMS** o Decanter Centrifuge

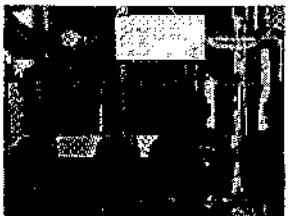
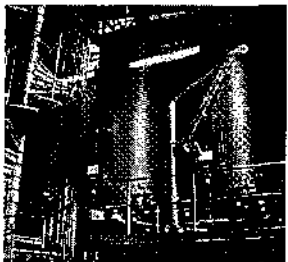
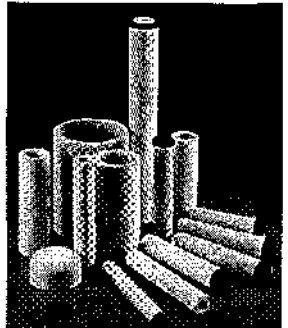
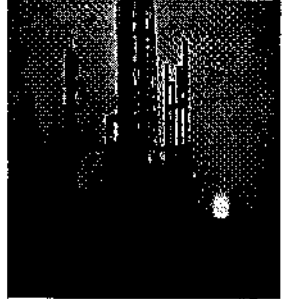
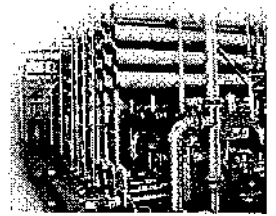
4 <EQUIPMENTS

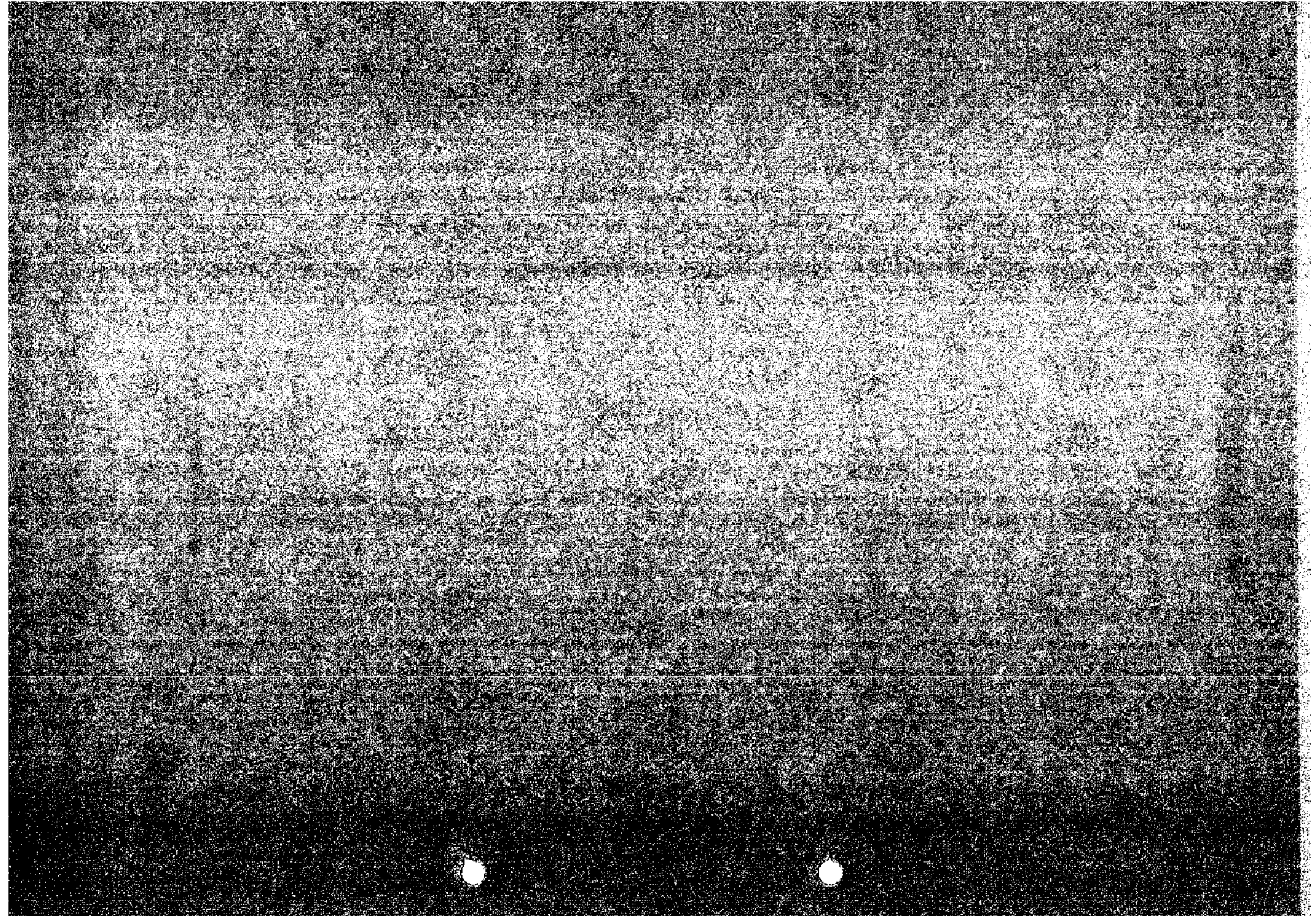
- **ONLINE BX METERS**
- **MEMBRANES AND MEMBRANE CONTAINERS**
 - o Water-Wastewater Treatment
 - o Dairy and Dairy Farming
 - o Cheese and whey
 - o BioPharma
- **CERAMIC FILTERS-10"-0.5 Micron**
- **PUTREX FILTER CARTRIDGES - 20"-40" (1-5-10-20 Micron)**
- **YAĞ SIYIRICI - OIL SKIMMER**
- **FLOWMETERS**
- **CONDUCTIVITY METER/ PH-ORP METERS**

CEYKA CHEMICAL INDUSTRY AND FOREIGN TRADE CO. LTD.

PERPİM SANAYİ SİTESİ NO: B53 SARIGAZI / İSTANBUL TEL. 0216 5404187 FAX:

0216 5404188 www.veyka.com.tr





40

pH/Retföx and Con^ctj.intyjfleterStruigssS»**-^

r/at

seko



Easy Connections RELIGION rar! riounting

[illegible]

PHOTO-Accuracy: 7.1%
Radar: 0.00 mV/Accuracy: 1.85%
ID: 008CH77AD58C0 with IP: 100.1.1.1
ID: 20102D2410FAU(22%) Sale date:
ID: 69Bch Setpoint(drops/sec)
ID: 520WVC
230 WAT 50Hz 2P

^^controller series is a

It is easy to configure all parameters thanks to the **digital multiLanguage menu**.

The calibration has never been so easy: the instrument recognizes the buffer Solutions, carries out the calibration suspending the dosage and indicating the State of efficiency of the electrode. **Conductivity calibration by just one point.**

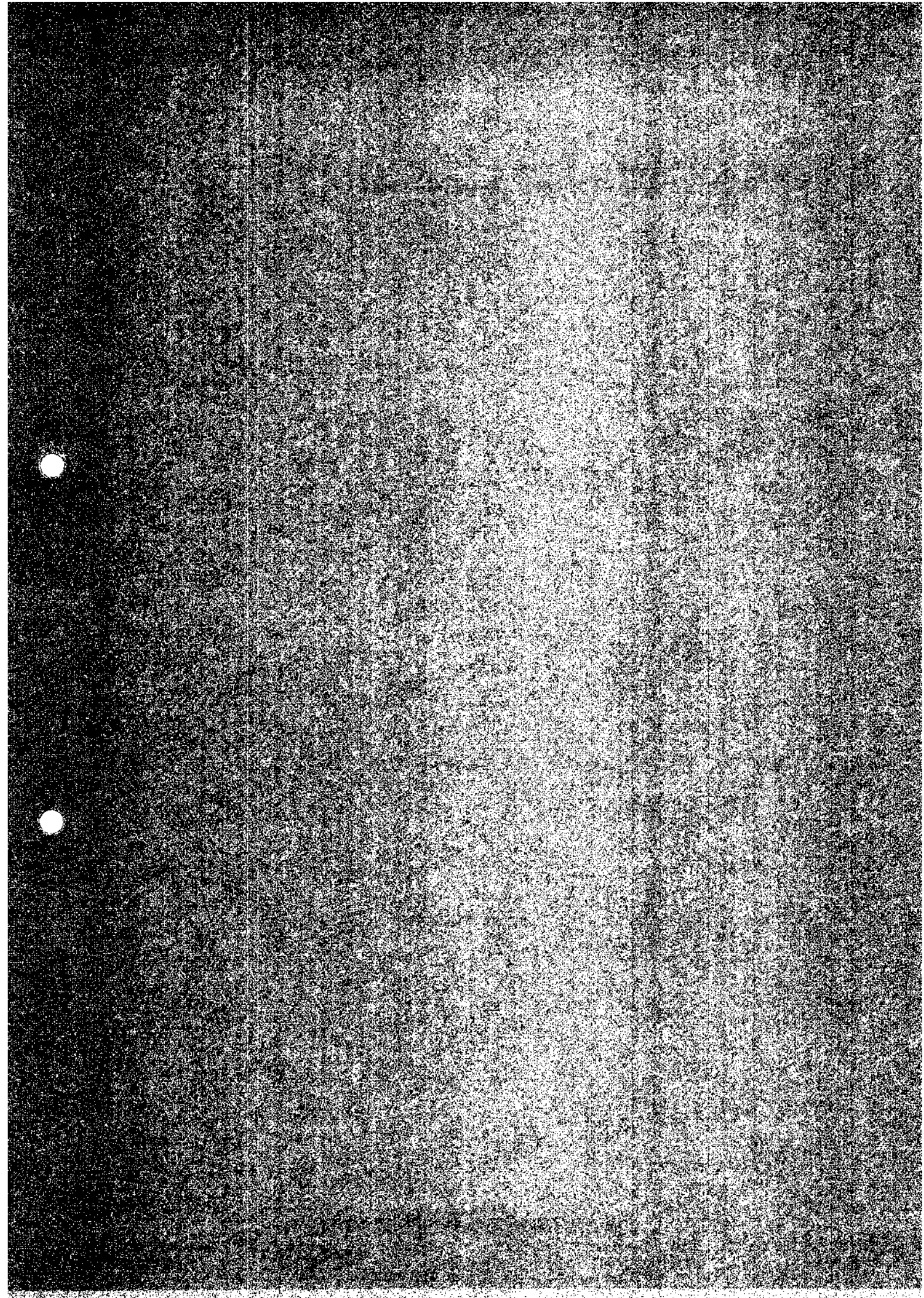
The unit has a 2 lines display with 8 font letters, which flashes both the temperature and the Chemical measure.

GALVANIC SEPARATION

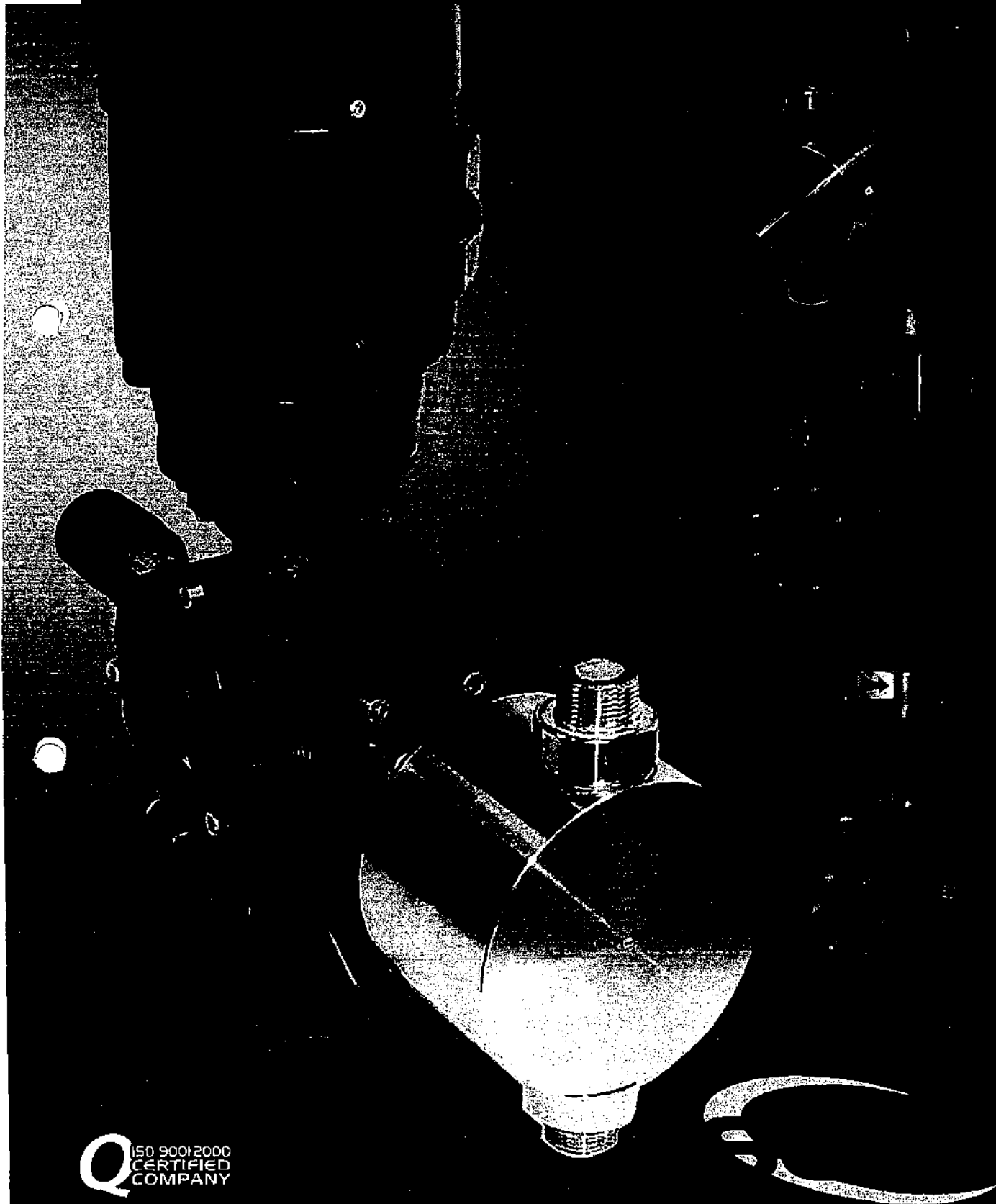
This is the ideal solution for connecting with a recorder or a data acquisition system without any interference.

RE M O T E C O N T R O L

The unit has the voltage input (range from 8 to 30 Vdc) to freeze all functions by remote control system.



SPRING SERIES



Q ISO 9001:2000
CERTIFIED
COMPANY

Plunger piston Metering pumps

PS1 Series

FSATUR65

Capacity: from 1,5 to 304 L/h

Max pressure^

20 BAR

Stroke rate:

58 • 78 • 116 strokes/min ut e

Piston diameter:

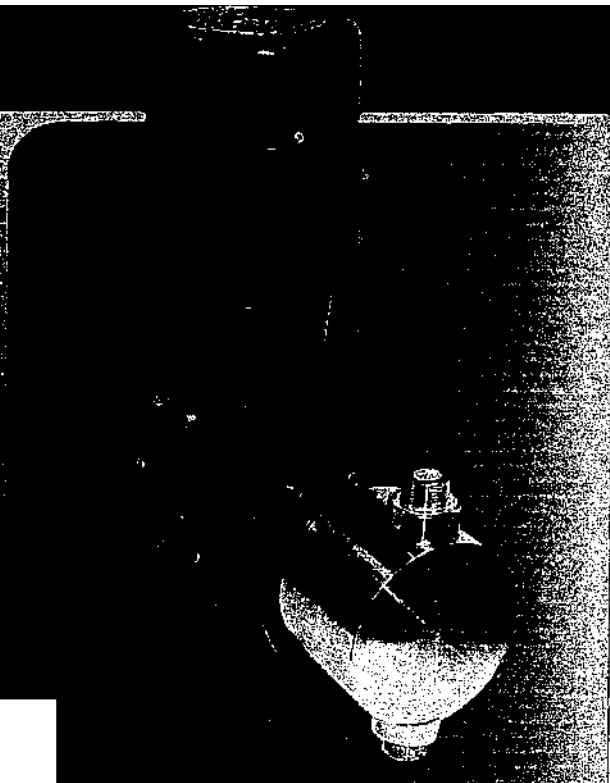
from 6 to 64 mm

Engine:

Standard 0.18 and 0.25 Kw (IP 55)

Stroke length

15 mm



MODEL	PISTON DIAMETER	Strokes/min	FLOW RATE (l/h)	MAX PRESSURE			CONNECTIONS			Motor(kw)
				SS316	Bar	1 SS 316	Psi	PVC	5	
PS1		58	1,5							
PS1		78	2							
PS1		116	3							
PS1D011A		58	5							
PS1D011B	11	78	5,5	20	10	290	145	1/4 g f	1/4 g f	0,18
		116	10							
PS1D011C	17	58	11							
		78	15	20	10	290	145	3/8 GF 3/8 GF		0,18
		116	22							
PS1D011D		58	35							
PS1D011E		78	45	20	10	290	145	3/8 g f 3/8 g f		0,25
PS1D011F		116	70							
PS1D011G		58	85							
PS1D011H		78	114	10	W;	145		145: 1/2 g f 1/2 gf		0,75
PS1D011I		116	170							
PS1D011J		58	152							
PS1D011K		78	254							
PS1D011L		116	304							
PS1D064A		58	152							
PS1D064B	64	78	254							
PS1D064C		116	304							

Plunger piston Metering pumps

PS2 Series

FEATURES

Anchor city: from 40 to 1000 L/h

Max pressure:

20 BAR

Stroke rate:

58 • 78 • 116 strokes/minute

Piston diameter: from 25 to 89 mm

Engine:

Standard 0.25 • 0.37 • 0.55 • 0.75 Kw (WP 55)

Stroke length

25 mm



MODEL	PISTON DIAMETER	Strokes/min	FLOW RATE (l/h)	MAX PRESSURE			CONNECTIONS		Motor (kw)
				Bar	Psi		Bphases		
				SS 316	SS 316	SS 316	55 316		

IS45rs- *11S-X

OWEQ25B^: k' <kc? . --.; \$:k~:-: 58<.k.v k-40J

20 10 290 145 3/8 g f 3/8 g f 0,25

PS2E030A		58	55						
PS2E030B	30	78	75	20	10	290	145	3/8 g f	3/8 g f
PS2E030C		116	112						

OPS2IQ38A:
/j>S2E(I38B

PS2E038C

38

20

10

290

0,37

« Mi

■A-'		58	180						
PS2E054AI XPME	54	78	242	15	10	217,5	145	1/2 g f 1/2 g f	0,55
B54B^PS2E054C		116	365						

|Z«

RS2E076A

58: % /.>,,,! t; 365:

PS2E076B

76 <; ■ 78 \ ■/ ■,■ 485 7- 101.5 / Rope, 5 T h f. 1 g f 0,75

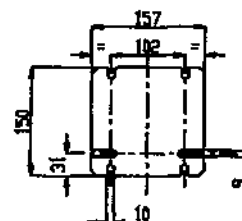
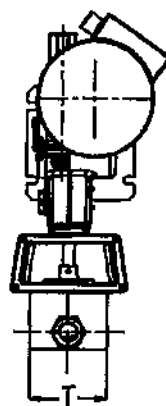
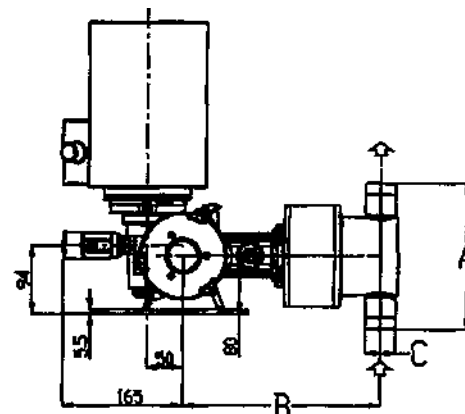
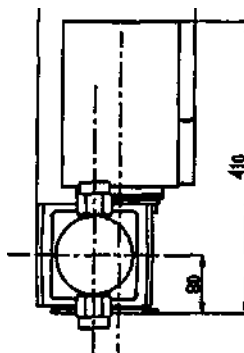
PS2E076G

116 730

Q® » ® #

Piston diameter	SS 316 L			
	A	1 B	1 c	T
25	120	258	3/8 g.f.	68
30	120	258	3/8 g.f.	68
38	160	268	1/2 g.f.	88
48	160	268	1/2 g.f.	88
54	173	268	1/2 g.f.	108
64	202	273	3/4 g.f.	108
76	238	288	1" g.f.	138
89	252	288	R.G.F.	150

Piston diameter	PVC			
	A	1 B	C	IT
25	147	258	3/8 g.f.	80
30	147	258	3/8 g.f.	80
38	168	268	3/8 g.f.	100
48	196	268	1/2 g.f.	100
54	216	268	1/2 g.f.	120
64	222	273	3/4 g.f.	120
76	244	288	1" g.f.	148
89	256	288	1" g.f.	160



PUMP HEAD MATERIALS

seW -i;;

STANDARD		ON REQUEST	
21	31	24	34

fe"AAAA■MiiVMWv4waMiihMHBWPMiiHPi>WBBliO^"

^cj'1\$TON^\$Mlr'

pp. 316'; > < •? PVC)-:

LIQUIDEND

SS 316 or PVC pump head (Standard).

SS 316 OR CERAMIC PISTON

The material in contact with the liquid to be dosed are listed in the "pump head materials" table (special materials may be supplied on request).

MAX DOSAGE TEMPERATURE

- SS 316 pump head: 90°C
- PVC pump head: 40°C

FLOW RATE ADJUSTMENT

Every pump can be equipped with an electric actuator which accepts a 4-20 mA.

P	S2	E	064	B	31	C4	000	LEGEND	
								Optional	
								Motor	
								Pump head materials	
								Strokes	
								Plunger diameter	
								Stroke length	
								Mechanism type	
								Model	

MS1 Series

FEATURG5_____

Anchor: from 5,5 to 460 L/h

Max pressure: __ W BAR

Stroke rate; 58 • 78 • 116 strokes/minute

Diaphragm diameter: from 65 to 165 mm

Engine: Standard 0.18 • 0.25 • 0.37 Kw (WP 55)

Stroke length

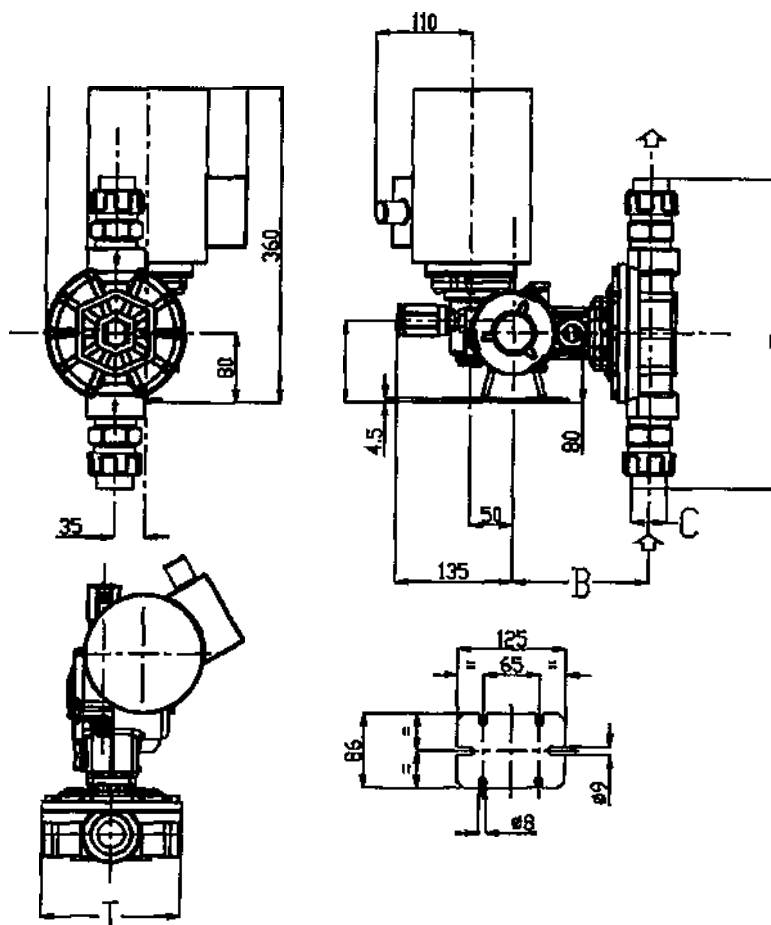
2 mm • 4 mm • 6 mm

MODEL	DIAPHRAGM DIAMETER	STROKE LENGTH (mm)	STROKES/min	FLOW RATE (l/h)	MAX PRESSURE				CONNECTIONS		3phases Motor (kw)
					bar		psi		SS 316	PP	
					SS 316	PP	SS 316	PP			
MS1A065A			58	5,5							
MS1A065B	65	2	78	8	10	10	145	145	1/4 g f	1/4 g f	0,18
MS1A065C			116	11							
MS1A094A			58	20							
MS1A094B	94	2	78	26	10	10	145	145	3/8 g f	3/8 g f	0,25
MS1A094C			116	40							
MS1B108A			58	60							
MS1B108B	108	4	78	80	10	10	145	145	3/8 g f	3/8 g f	0,37
MS1B108C			116	120							
MS1C138A			58	155					3/4 g f	3/4 g f	
MS1C138B	138	6	78	220	7	7	101,5	101,5			0,37
MS1C138C			116	310					1" g f	1" g f	
MS1C165A			58	230							
MS1C165B	165	6	78	330	5	5	72,5	72,5	1" g f	1" g f	0,37
MS1C165C			116	460							

Diaphragm diameter	PP			
	A	B	C	1 T
65	208	149	1/4" g.f.	98
94	236	144	3/8" g.f.	117
108	248	144	3/8" g.f.	131
138	347	158	3/4 g.f.	160
			1" g.f.	
165	377	160	1-g.f.	193

Diaphragm diameter SS 316 L
l g) j

65	150	144	1/4" g.f.	98
94	172	146	3/8" g.f.	120
108	212	146	3/8" g.f.	140
138	258	157	3/4 g.f.	170
			1" g.f.	
165	296	157	1" g.f.	190



PUMP HEAD MATERIALS

	STANDARD		ON REQUEST	
	21	51	31	41
PUMP HEAD	SS 316	PP	PVC	PVDF
DIAPHRAGM	PTFE	PTFE	PTFE	PTFE
VALVES	SS 316	PYREX	PYREX	Ceramic
VALVE SEATS	SS 316	PVC	PVC	PVDF

LIQUID END

SS 316 or PP liquid end (Standard).

PTFE DIAPHRAGM

The material in contact with the liquid to be dosed are listed in the "pump head materials" table (special materials may be supplied on request).

MAX DOSAGE TEMPERATURE

- SS 316 pump head: 40°C
- PP pump head: 40°C

FLOW RATE ADJUSTMENT

Every pump can be equipped with an electric actuator which accepts a 4-20 mA.

M 51 A 0 M B 51 A1 000 LGGG N D

Optional Engine

Pump Head Materials

Strokes

Diaphragm diameter

Stroke length

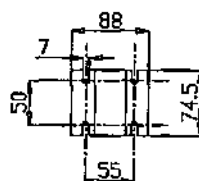
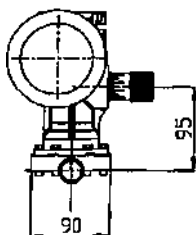
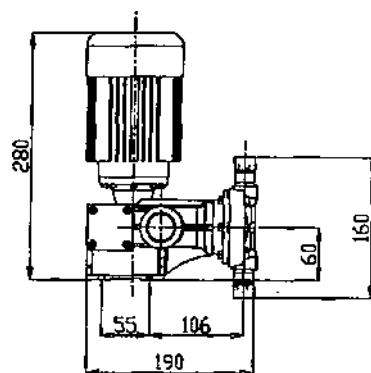
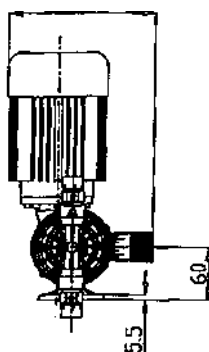
Mechanism Tgpc Model

Mechanical Diaphragm Metering Pumps

FGATURGS

Capacity:	FROM 17 to 47 l/h
Max pressure:	5 bar
Stroke rate:	41 • 58 • 82 • 116 strokes/minute
Diaphragm diameter:	50 mm
Engine:	Standard 0.09 kw (IP55)
Stroke length:	2 mm

MODEL	DIAPHRAGM DIAMETER	STROKES/min	FLOW RATE (l/h)	MAX PRESSURE		CONNECTIONS		3phases Motor (kw)
				bar	psi	SS 316	PP	
MS0F050E	50	41	15	5	72.5	1/2 g.m	3/4 g.m 1/2 g.m	0,09
MS0F050A		58	20					
MS0F050F		82	30					
MS0F050C		116	42					



M	SO	A	050	A	51	000	LEGEND
							Optional Motor
							Pump Head Materials
							Strokes
							Diaphragm diameter
							Stroke length
							Mechanism Type
							Model

PUMP HEAD MATERIALS

	STANDARD		ON REQUEST
	21	51	31
PUMP HEAD	SS 316	PP	PVC
DIAPHRAGM	PTFE	PTFE	PTFE
VALVES	SS 316	PYREX	PYREX
VALVE SEATS	SS 316	PVC	PVC

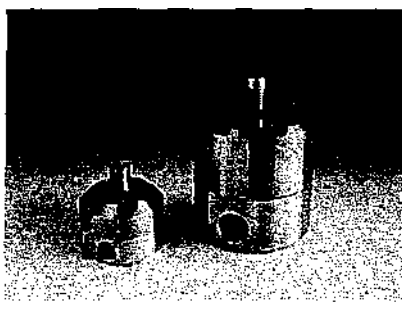
ACCESSORIES

Adjustable safety valves (SS316/PTFG)



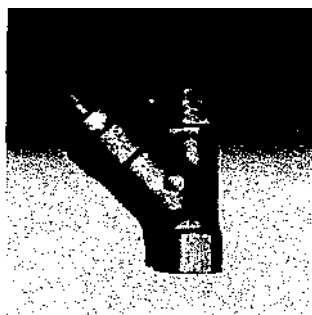
Model	Flow rate l/h	Pressure (bar)		Connections	Code
		Min	Max		
VS1S	250	0	19	1/2" F	VS1S250019
		20	45		VS1S250045
		46	150		VS1S250150
VS2S	650	0	13	3/4" F	VS2S650013
		14	30		VS2S650030
		31	100		VS2S650100

Adjustable safety valves



MODEL (material)	Flow rate L/H	Pressure (bar)		Connections BSP	CODE
		Min	Max		
PRM-S (SS316)	300	0	5	3/8" F	PRM1S03005
	800			3/4" F	PRM2S08005
	1500			1" F	PRM3S15005
PRM-P (PVC)	300	0	5	3/8" F	PRM1P03005
	800			3/4" F	PRM2P08005
	1500			1" F	PRM3P15005

"Y" Suction filters



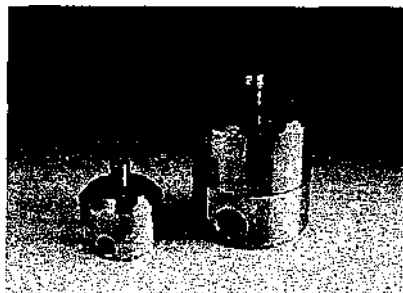
MODEL (material)	Connections BSP	CODE
FYP PVC	3/8" F	FYP3240200
	1/2" F	FYP3230040
	3/4" F	FYP3230060
	1" F	FYP3230080
VS (SS316)	3/8" F	FVS3240098
	1/2" F	FVS3240100
	3/4" F	FVS3240110
	1" F	FVS3240120

ACCESSORIES

Backpressure valves (SS316)

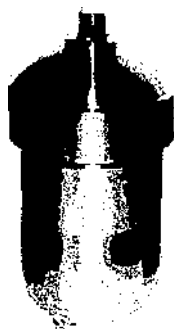
MODEL	Flow rate l/h	Pressure (bar)	Connections BSP	CODE
VZX-S-02			W" M	VZX3S0.1002
	200'		S/S" f	VZX4S02002;
	420		1/2" F	72X5504202
	800			VZX6S08002
	1650;			yZX7S16502:

Adjustable Backpressure valves



Pulsation bag HTR series

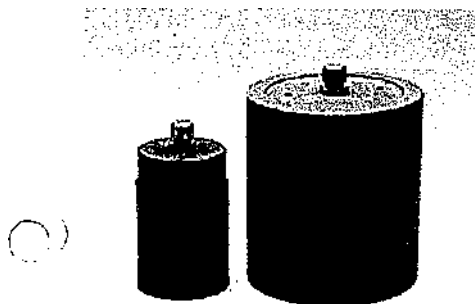
MODEL (material)	Flow rate l/h	Pressure (bar)		Connections BSP	CODE
		min	max		
VSM-S (SS316)	300			3/8" F	VSM1503005
	800	0	5	3/4" F	VSM2508005
	1500			1" F	VSM3515005
VSM-P (PVC)	300			3/8" F	VSM1P03005
	800	0		3/4" F	VSM2P08005
	1500			1" F	VSM3P15005



Capacity (L)	Pressure(bar)	Material		Connections , BSP	rnnclvut
		Body	Diaphragm		
0,35				3/8" F	HrRSÖ35N23
■O, #	230	SS316	■?;? (s -t		HTRS080N23

ACCESSORIES

Pulsation bag HST series



Capacity (L)	Pressure (bar)	Material		Connections BSP	CODE
		Body	Diaphragm		
0,04	10	PVC	EPDM	3/8" F	HSTP004V01
0,1					HSTP010V01
0,35				1/2" F	HSTP035V01
0,8					HSTP080V01
1,5				3/4" F	HSTP150V01
2,3					HSTP130V01

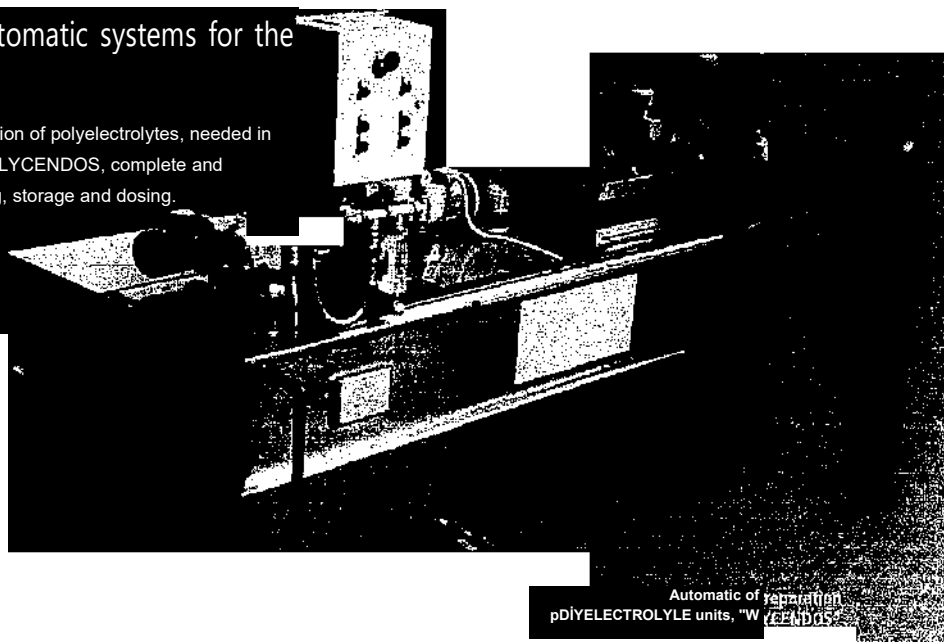
Fitting-Testing unit AR series

Pressure (bar)	CODE
6	AR10PM0006
12	AR11PM0012
40	AR01PM0040
60	AR02PM0060
100	AR03PM0100
160	AR04PM0160
250	AR05PM0250

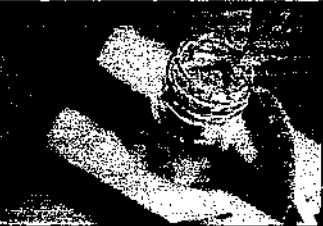
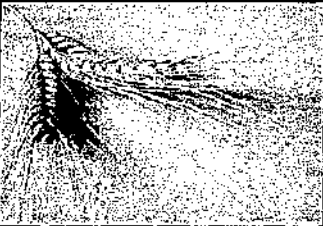
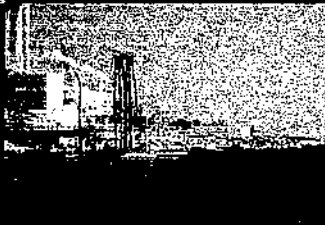
POLYCGNDOS automatic systems for the preparation of polyelectrolyte

The demand for the automatic and continuous preparation of polyelectrolytes, needed in water treatment applications, is brilliantly solved by POLYCGNDOS, complete and autonomous systems for the dilution, dispersion, ageing, storage and dosing.

The Standard models are in stainless Steel and include seven versions from 550 l/h to 8000 l/h; further executions are available upon request.

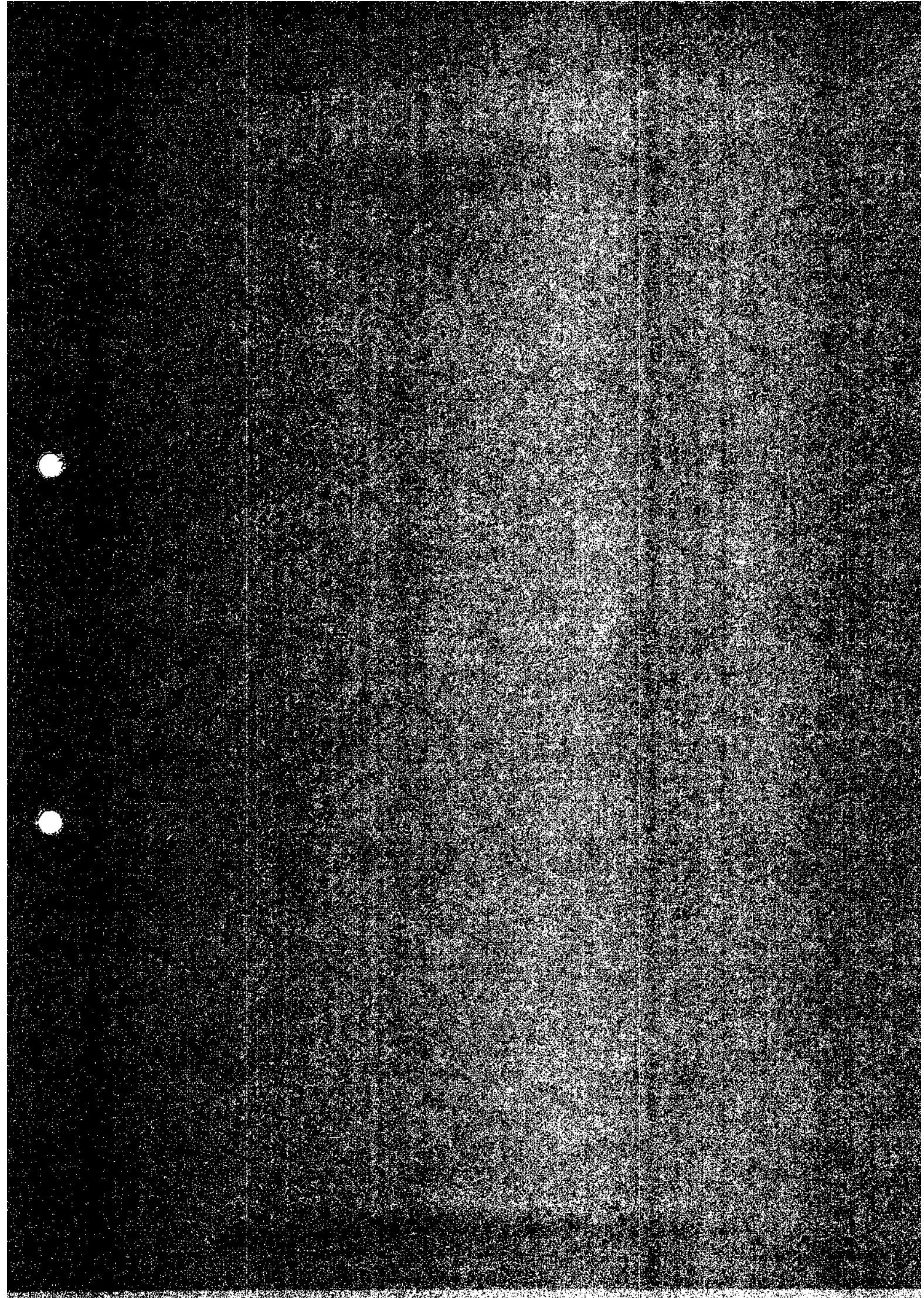


Automatic of preparation
polyelectrolyte units, "WATERCENDOS"



Q ISO 9001:2000
CERTIFIED
COMPANY





the SPRING and its ACCESSORIES



DIGIDRIVE z

Single or Three Phases ⁷
Variable Speed Drive
230 Vac - 400 Vac (±10%)
Power from 0.25 to 0.75 kw ■

{*V

■FS

■ ■ Fixing J
brackets

AISF Foot Valve Z for S1 and S2 Series

Connections in AISI:
1/4" Gf • 3/8" Gf • 3/4" Gf • 1" Gf



Af Si Injection Valve for S1 and S2 Series

Connections in AISI:
1/4" Gf • 3/8" Gf • 3/4" Gf • 1" Gf

PVC Flexible tubing connections for S1 and S2 Series

Connections for 10/16 and
10/20 tubing



SEKO

1/8" Gf • 3/4" Gf • 1" Gf

FPM or EPDM Foot - Valve for S0 and S1 Series

Connections for 8/12 titling

15019001:2000
" FFGRTIEIGD
" COMPANY

Injection Valve for S0 and S1 Series

Connections for 8/12 tubing -

FPM or EPDM Injection Valve for S1 and S2

Series Connections in PVC:

FPM or EPDM Foot Valve for S1 and S2

Series Connections in PVC: 3/8" Gf • 3/4" Gf •
1" Gf

PVC Flexible tubing connections for S1 and S2 Series
Connections for 8/12 tubing ■

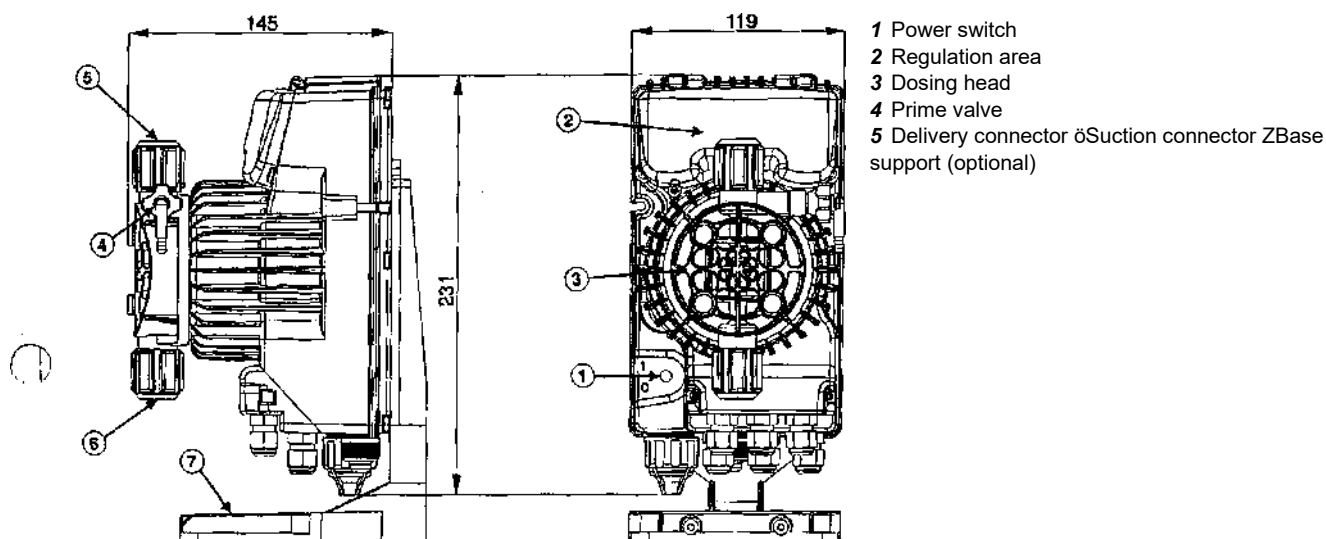
INSTALLATION and Start-Up MANDAL FOR TEKNA SERIES DOSING PUMP

Your pump is part of the pump family listed in the following table:

	PVDF				
Model	Pressure	Flow Rate	cc /stroke.	Connections (mm)	Strokes / min
	Bar	L/H		Int / Ext	
600	20	2.5	0,35	476-4/7	120
	18	3,0	0,41		
603	12	4	0,42	4/6	160
	10	5	0,52		
	8	6	0,63		
	2	8	0,83		
800	12	7	0,36	4/6	300
	10	10	0,52		
	5	15	0,78		
	1	18	0,94		
803	5	20	1.11	8/12	300
	4	25	1,39		
	2	40	2,22		
	1	54	3		

INTRODUCTION

The dosing pump is comprised of a control unit that houses the electronics and the magnet, and a hydraulic part in contact with the liquid to be dosed.



The parts in contact with the liquid have been chosen in order to guarantee perfect compatibility with most Chemical Products normally in use. Given the range of Chemical products available on the market, we recommend checking the Chemical compatibility of the dosed product and contact materials.

MATERIALS USED IN THE PUMP HEAD (STANDARD)

BODY: CONNECTORS: PVDF PVDF
DIAPHRAGM: PTFE
BALLVALVES: CERAMIC

The pumps are supplied

complete with the indispensable accessories for their correct installation. You will find the following in the packaging:

Foot filter, injection valve, transparent suction tube, transparent tube for bleed valve, opaque delivery tube, Pump fixing inserts, bracket for wall mounting, level sensor connector and instruction manuals.

PRECAUTIONS

READ THE FOLLOWING PRECAUTIONS CAREFULLY BEFORE PROCEEDING WITH PUMP INSTALLATION OR MAINTENANCE

CAUTION! Always disconnect the power supply before installing or carrying out maintenance on the product

CAUTION! Follow the safety procedures relative to the dosed product

- H₂SO₄ SULPHURIC ACID

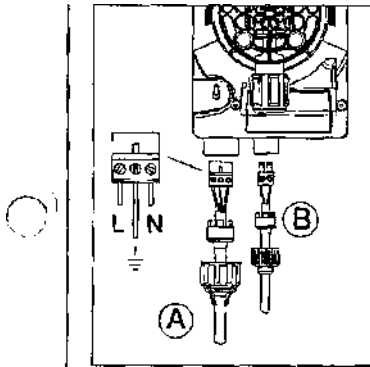
All the pumps are tested with water. When dosing Chemical products that may react with water, dry all the internal parts of the plumbing thoroughly.

Install the pump in a zone where the environment temperature does not exceed 40°C and the relative humidity is below 90%. The pump has an IP65 protection level.

Install the pump so that any inspection and maintenance operations are easy to carry out, then secure the pump firmly in order to prevent excessive vibrations.

Check that the power supply available in the network is compatible with that indicated on the pump label. If you are injecting in pressurised pipes, always make sure that the system pressure does not exceed the maximum working pressure indicated on the dosing pump label before starting up the pump.

WIRING



Input A = power supply

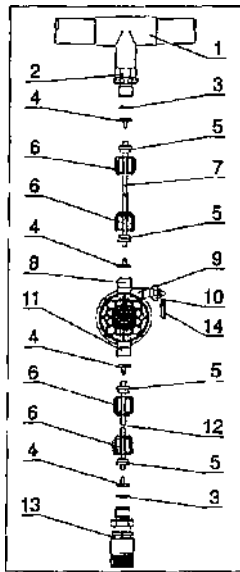
Input B = Level

The pump must be connected to a power supply that complies with that indicated on the label on the side of the pump. Failure to respect these limits may cause damage to the pump itself.

The pumps have been designed to absorb small over voltage. Therefore, in order to prevent the pump from being damaged, it is always preferable to ensure that the pump does not have a power source shared with electrical appliances that generate high voltages.

Connection with the three-phase 380V line should only be made between phase and neutral. Connections must not be made between phase and earth.

PLUMBING



- 1- Injection point
- 2- Injection Connector
- 3- SEAL
- 4- Pipe holder
- 5- Pipe clamp
- 6- ring nut
- 7- Delivery Tube
- 8- Delivery valve
- 9- pump head
- 10- bleed valve
- 11- Suction Valve
- 12- Suction Tube
- 13- Foot Filter
- 14- Bleed Valve Connector

After around 800 hours of work, tighten the bolts in the pump body, applying a tightening torque of 4 Nm.

When making the plumbing connections, make sure that you follow the instructions below:

- The **FOOT FILTER** must be installed so that it is always positioned 5-10 cm from the foot, in order to prevent any deposits from blocking it and damaging the hydraulic part of the pump;
- The pumps come as Standard with inlet and outlet pipe that are sized to suite the plumbing characteristics of the pump. If you need to use longer pipes, it is important that you use pipes of the same dimensions as those supplied with the pump.
For external applications in which the **DELIVERY PIPE** may be exposed to the sun's rays, we recommend using a black pipe able to withstand ultraviolet rays;
It is advisable to position the **INJECTION POINT** higher than the pump or tank;
- The **INJECTION VALVE**, supplied with the pump, must always be installed at the end of the dosage flow delivery line.

START-UP

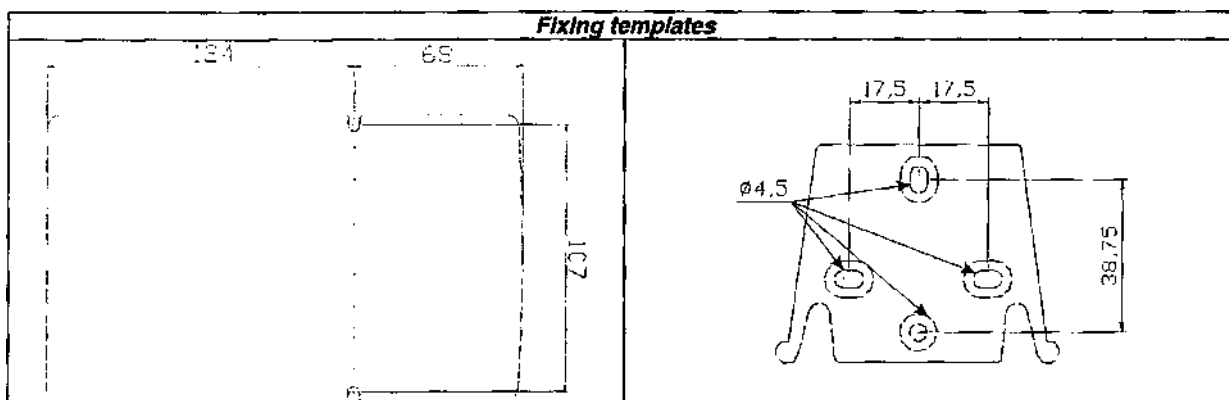
Get it first! the aforementioned operations have been completed, the pump is ready to be started.

Priming

Start the pump

Open the priming connector by turning the knob in an anticlockwise direction and wait for liquid to come out of the pipe connected to it.

Before you are sure that the pump is completely full of liquid, you can close the connector, and the pump will begin to dose.



Trouble Shooting

Problem	Possible Cause	Solution
The pump is working properly but the dosage is interrupted	Valve blockage	Clean the valves or replace them if it is not possible to remove the build-ups
	Excessive suction height	Position the pump or tank so as to reduce the suction height (pump under water head)
	Excessively viscous liquid	Reduce the suction height or use a pump with a bigger flow capacity
Insufficient flow capacity	Valve leakage	Check that the ring nuts are properly tightened
	Excessively viscous liquid	Use a pump with a bigger flow capacity or reduce the suction height (pump under water head)
	Partial valve blockage	Clean the valves or replace them if it is not possible to remove the build-ups
Excessive or irregular pump flow capacity	Siphon effect on delivery	Check the injection valve installation. Insert a back-pressure valve if insufficient.
	Transparent PVC pipe on delivery	Use an opaque PE pipe on delivery
	Pump not calibrated correctly	Check the pump flow capacity relative to the system pressure.
Broken diaphragm	Excessive Back-pressure	Check the system pressure. Check whether the injection valve is blocked. Check whether there are any blockages between the delivery valves and the injection point.
	Operation without liquid	Check the presence of the foot filter (valve). Use a level probe that stops the pump when the Chemical product in the tank has run out.
	Membrane not secured correctly	If the membrane has been replaced, make sure that the same is correctly tightened.
The pump does not come on	Insufficient power supply	Check whether the pump plate data corresponds to that of the electricity network.



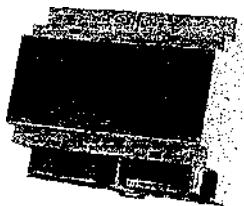
SEKO S.p.A.

Via Salada, Km. 92,200 - 02010 S. Rufina (RI) - Italy

Tel. +39 0746 605801- Fax +39 0746 607072 - E-mail; info@seko.com - Internet: www.seko.com

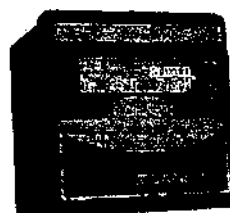
Control Flow 40 Series

Control 40 series adds a new measure in its range: Flow Rate with Paddle Wheel sensor type **Flow~Sensor**. Controller Instruments (**Control FX40**) collection includes 4 mechanical versions with the same Hardware and Software Functions.



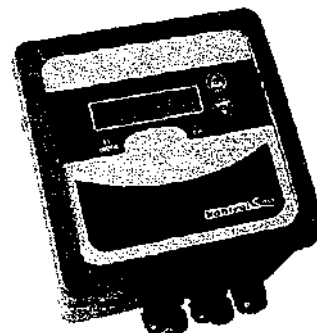
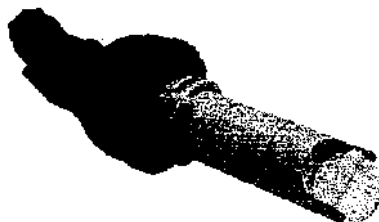
Flow meter Controller features

- Flow rate Range: 0+9.999.999 (signal input 0.5+1500 Hz)
- Accuracy 1 % Flow Unit Setting.
- Current Output 0/4+20 • 20+4/0 mA ($\pm 2\%$) selectable
- Set Point (2 independent) by dry contacts relay 10 A 250 V resistive load
- Voltage Input 15 + 30 Vac/Vdc (Hold Function)
- Power Supply 100 + 240 Vac 50Hz/60Hz



Paddle Wheel Sensor

Fluid Speed Range: 0.15 to 8 m/sec



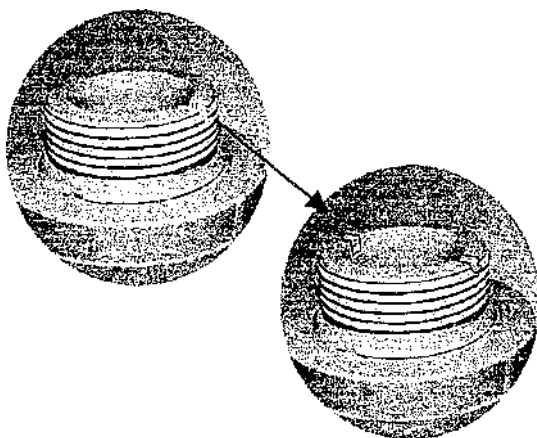
Two type:

SFVV-1: Dedicated for DN15 to DN100 diameters.

SFW-2: Dedicated for DN150 to DN200 diameters.



Accessory Fitting with Easy Connection



Accuracy position for Paddle Wheel Sensor





SEKO S.p.A.

Via Salana, Km. 92,200 - 02010 S. Rufina (RI) - Italy

Tel. +39 0746 605801 - Fax +39 0746 607072 - E-mail: Info@seko.com - Internet: www.seko.com

Accessory:

Clamp Saddles from DN50 to DN200 diameters,



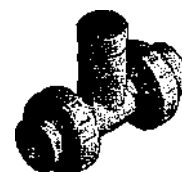
Code	Description
9900317000	Clamp Saddles Iso Series DN50 PVC/FPM/063 x SFVV-1
9900317001	Clamp Saddles Iso Series DN65 PVC/FPM/075 x SFW-1
9900317002	Clamp Saddles Iso Series DN80 PVC/FPM/090 x SFW-1
9900317003	Clamp Saddles Iso Series DN100 PVC/FPM/0110 x SFVV-1
9900317004	Clamp Saddles Iso Series DN150 PVC/FPM/0160 x SFW-2
9900317005	Clamp Saddles Iso Series DN200 PVC/FPM/0225 x SFW-2

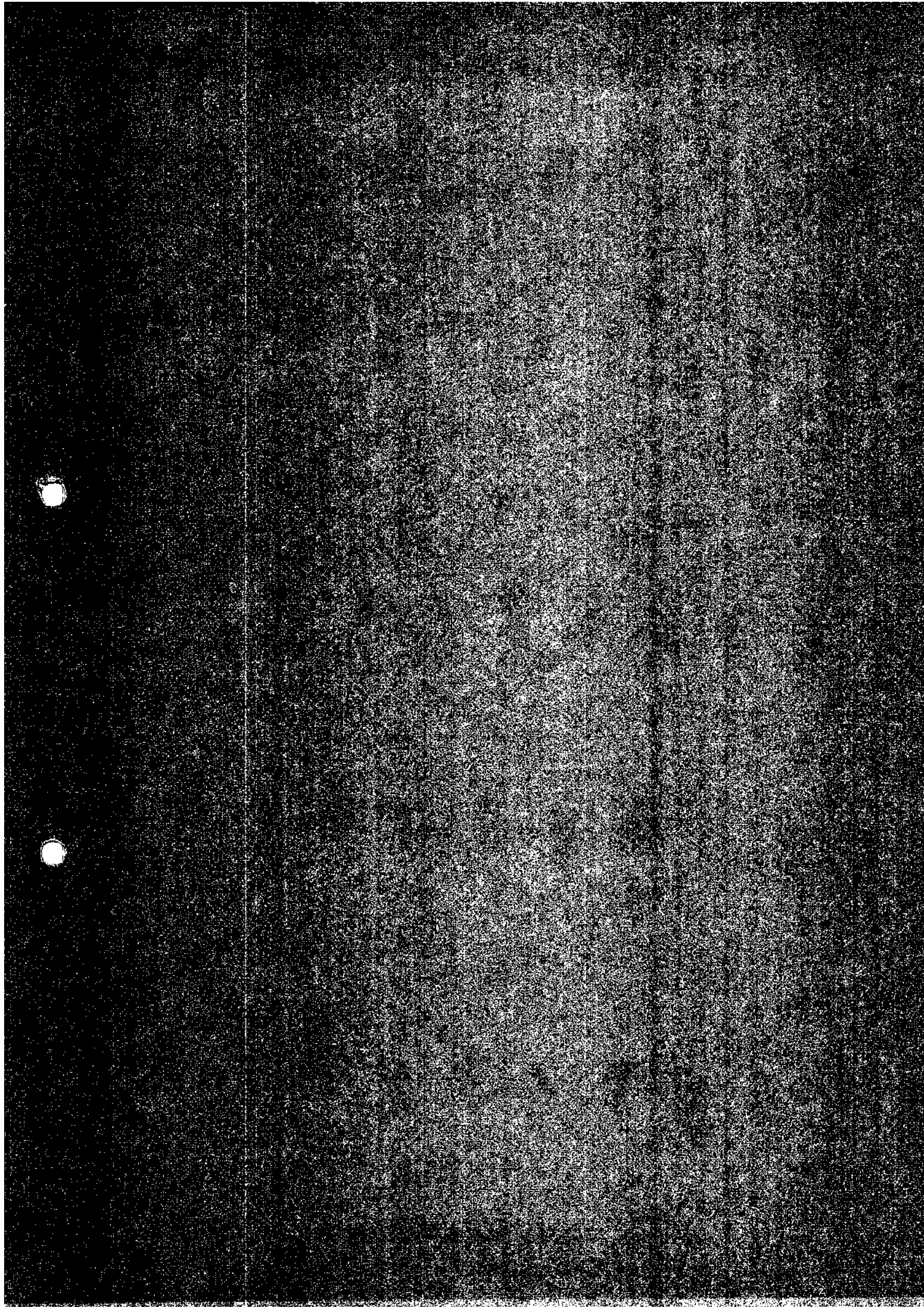


Plastic Tees from DN15 to DN40 diameters.



Code	Description
9900317006	Plastic Tees PVC DN15 GI 1/2" PVC/FPM x SFW-1
9900317007	Plastic Tees PVC DN20 G3/4" PVC/FPM x SFW-1
9900317008	Plastic Tees PVC DN25 GI" PVC/FPM x SFW-1
9900317009	Plastic Tees PVC DN32 GI 1/4" PVC/FPM x SFW-1
9900317010	Plastic Tees PVC DN40 GI 1/2" PVC/FPM x SFW-1







AFFETTI

Pumps for corrosive liquids

PUMPS FOR CORROSIVE LIQUIDS

Pumps for corrosive liquids

L'azienda

La Affetti Pompe, fondata da Giuseppe Affetti, nasce attorno alla meta degli anni sessanta come azienda costruttrice di impianti industriali adibiti al contenimento ed al cûnvoplâmento di liquidi corro- sivi. La grande esperienza maturata, da allora fino agli inizi degli anni ottanta, e stata messa a

Frutto per realizzar- prime unità di elei-roppe in termo- plastico.

Durante cêrcé un decennio tali macchi- ne, sono State pro- dotte sem- ("^p'pre piû in ■ m a g g i o r e q u a n t i t a , facendo accre- scere nella clien- tela la fiducia nei

confronti deU'azienda,...

:<■: ehe passo dopo passôhâ acquisito, In maniera significati- va, porzioni di mercato sempre. piû: cq' M\$Kt^hfi? sî3 InJyL-S Italia ehe all'estero.

Verse la fine degli anni ottanta, a miġltâfafa'la;-^ qualità dei prodotti, e stato determihayiteTappbE^l to dell'ufficio progettazione il qualeBa9ô^pdb; tpn"- determl na zi one, e ri uscit o a procîurre; pp.fnpe'.. Squat '■ le sene centrifughe a trascinarpechtô'-mâg^ e quelle centrifughe orlzonatû.^/nprm.e:... D(N 24256.- ISO 2858, qualificando ulteriôrmente .lîanôrqe^detfe societâ.

Oggi la Forgive, ha raggiunto;. ûno (^-p-standard qualitativo di indi scusso livello avvalen- dosi anehe di un piano di controllo qualità Interno valido ed effi-

Soprattutto supportato da una sala prove all'a- va ngua rdia capace di col- laudare mac- Chine Fino A 110 kW di Potenza.

ciente Stata una delle principali caratteristiche dellazienda, l'innovazione tecnologica, la voglia di aggiungere sempre piû prodotti alla gamma, la capacità di costruire macchine dalLinnegabile robustezza ed affidabilità. fanno del marchio Affetti uno dei piû ricercati sul mercato delle pompe in materiale plastico.

Affetti Chemical Pumps, established by Giuseppe Affetti, starts his aeti- vity at the middle of sixties as industrial plant producer In the field of corrosive liquids.

Thanks to big experience done at

La staticità non e Mai

that time has been deci- ded to start the produc- tion of the first pumps in thermoplastic material.

The factory

Affetti as been ablesS^gineach important market shard.both in Italy and in ^the export.

From that time the number of pumps produced as been g increased has con- of sequence the Customers confidence

At the end^T^ighiies.to improve Clua^>^!^ff^Pro^ucis^ and the Company has beempbally important the

done from the teStif^g^ office that has de^fât^B new range of Driven

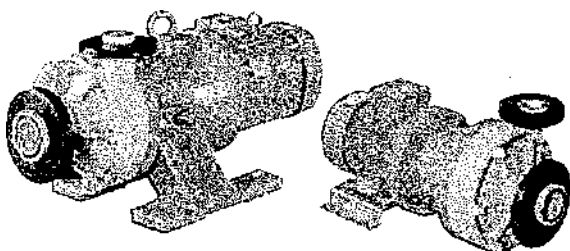
pumppSa^dgdange of DIN horizontal

Horse time the

Compapy^fddtddhas reached a hight^s^i^gi thanks to the intermdF^gaU^ffrol plan and also to the iî\$^~~~~~ps test station in condition/tg^pġf^d^eilperformances up to 110 kw^d(d^d^dydrs. As consequence of

MMB-N/MMB-E

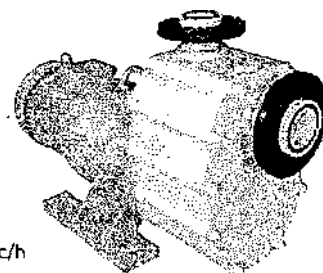
Pompe centrifughe a trascinamento magnetico monoblocco *Monobloc centrifugal pumps with magnetic drive*



portate/capacities: 5 mc/h - 70 mc/h (E) / 15 mc/h - 120 mc/h (N)
prevalenze/heads: 6 mt - 41 mt (E) / 15 mt - 41 mt (N) potenze/power:
0.55 Kw - 15 kw (E) / 1.5 Kw - 18.5 kw [N] materiali/materials: PP,
PVDF
temperature d'esercizio/operating temperatures: -40°C +90°C

MSP

Pompe centrifughe a trascinamento magnetico autoadescanti monoblocco
Self-priming monobloc centrifugal pumps with magnetic drive

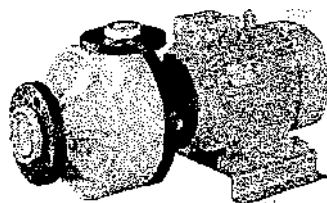


portate/capacities: 5 mc/h - 45 mc/h
prevalenze/heads: 10 m - 27 mt
Max Profondità di Pescaggio/Max Suction Head 4 Met
Potenze/Power: 1.1 Kw - 7.5 kW
materiali/materials: PP, PVDF temperature d'esercizio/operating
temperatures: -40°C +90°C

> P O M P E C E N T R I F U

■ CMO

Pompe centrifughe monoblocco *centrifugal monobloc pumps*

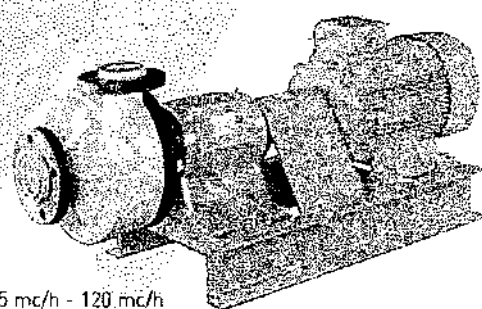


portate/capacities: 5 mc/h - 120 mc/h prevalenze/heads: 6 m t - 40 mt
potenze/power: 0.55 Kw - 18.5 kw materiali/materials: PP, PVDF
temperature d'esercizio/operating temperatures: -40°C +100°C

G H E . ; S H ' O R I Z Z O N T A L I

SCGÖ

Pompe centrifughe con supporto e giunto di accoppiamento *Centrifugal pumps-lyifh.su'pport.-ahd coupling*



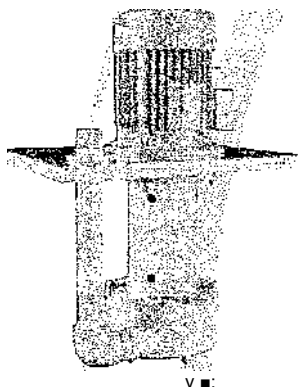
portate/capacities: 5 mc/h - 120 mc/h
prevalenze/heads: 6 mt - 40 mt /P? -
potenze/power: 0.55 Kw - 18.5 kw -
materiali/materials: PP, PVDF
temperature d'esercizio/operating temperatures: -40°C +100°C

P O M P E C E N T R I F U .

SCMV

Pompe centrifughe monoblocco *Centrifugal monobloc pumps*

portate/capacities: 5 mc/h - 120 mc/h
prevalenze/heads: 6 mt - 40 mt
Max Profondità di pescaggio/max suction
head: 2 mt potenze/power: 0.55 Kw -
18.5 kw
materiali/materials: PP, PVDF

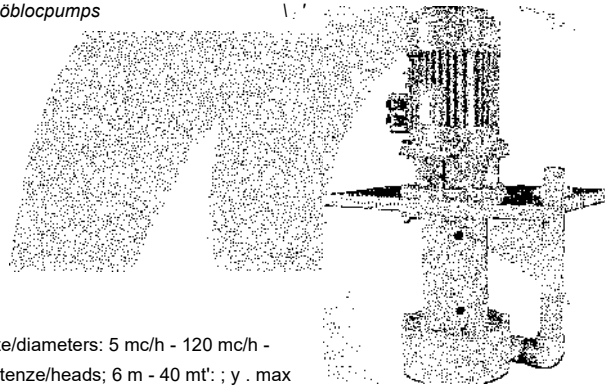


temperature d'esercizio/operating temperatures: -30°C +90°C -

G H J P "

CLV

Pompe centrifughe monoblocco *Centrifugal monobloc pumps*

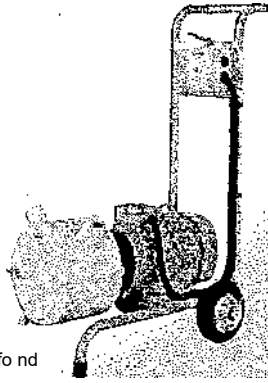


portate/diameters: 5 mc/h - 120 mc/h -
prevalenze/heads: 6 m - 40 mt' ; y . max
profondità di pescaggio/max-suction.head: 2 mt
potenze/power: 0.55 Kw - 18.5 kw - y materiali/materials: PP, PVDF
temperature d'esercizio/operating temperatures: -30°C +90°C

POMPE VOLUMETRICHE AUTOADESCANTI / VteUM ETR. I C S E L F-P R I M I N G ^ P Ü M R I S

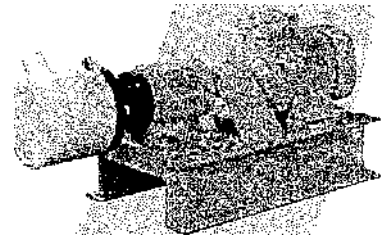
■ VMA

Pompe volumetriche autoadescenti monoblocco Volumetric self-priming pumps monobloc



portate/capacities: 1.5 mc/h - 25 mc/h
prevalenze/heads: 1.5 mt - 30 mt max profondità di pescaggio/max suction head: 1m
potenze/power: 0.25 Kw - 5.5 kw
materiali/materials: PP, PVC, PVDF, PEHD, PTFE, Graphite
temperature d'esercizio/operating temperatures: -30°C +90°C

Pompe volumetriche autoadescenti con supporto e giunto di accoppiamento
Volumetric self-priming pumps with support and coupling
portate/capacities: 1.5 mc/h - 25 mc/h
prevalenze/heads: 1.5 m - 30 mt

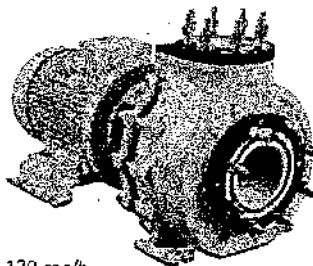


profondità di pescaggio/max suction head: 1m
potenze/power: 0.25 Kw - 5.5 kw
materiali/materials: PP, PVC, PVDF, PEHD, PTFE, Graphite
temperature d'esercizio/operating temperatures: -30°C +90°C

CENTRIFUGHE

SCDM

Pompe centrifughe monoblocco Centrifugal monobloc pumps

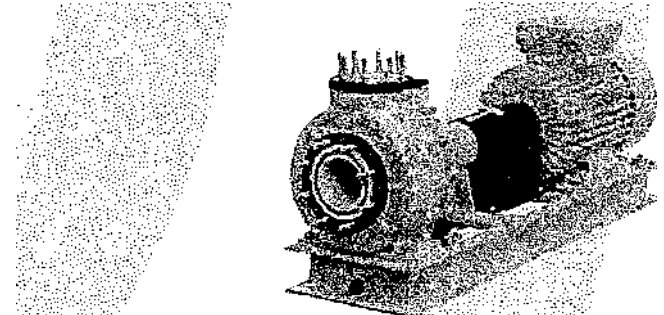


portate/capacities: 10 mc/h - 170 mc/h
prevalenze/heads: 6 m - 65 m
potenze/power: 2.2 Kw - 30 kw
materiali/materials: PP, PVDF, PEHD, PVC, PTFE, Graphite
temperature d'esercizio/operating temperatures: -60°C +200°C

ORIZZONTALI

scilgll

Pompe centrifughe normalizzate DIN 24256 -180.2858 F; NFE -44-121 Centrifugal pumps according to the DIN24256 - ISO'2858 - ^



portate/capacities: 10 mc/h - 700 mc/h
prevalenze/heads: 5 mt - 120 mt
potenze/power: 0.75 Kw - 110 kw
materiali/materials: PP, PVDF, PEHD, PTFE, Graphite
temperature d'esercizio/operating temperatures: -60°C +200°C

7CGV

Pompe centrifughe con giunto di accoppiamento Centrifugal pumps with coupling



portate/capacities: 5 mc/h - 120 mc/h
prevalenze/heads: 6 mt - 40 mt
max profondità di pescaggio/max suction head: 3 m
potenze/power: 0.55 Kw - 18.5 kw
materiali/materials: PP, PVDF, PEHD, PTFE, Graphite
temperature d'esercizio/operating temperatures: -30°C +90°C

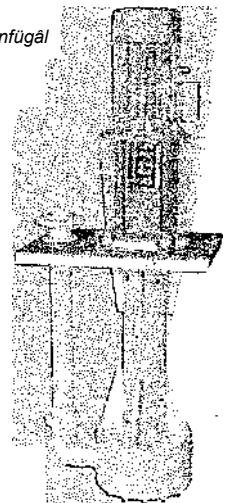


VE

AL

7 CGV-N

Pompe centrifughe con giunto di accoppiamento Centrifugal pumps with coupling



portate/capacities: 5 mc/h - 450 mc/h
prevalenze/heads: 6 mt - 100 mt
max profondità di pescaggio/max suction head: 3 m
potenze/power: 1.1 Kw - 75 kw
materiali/materials: PP, PVDF, PEHD, PTFE, Graphite
temperature d'esercizio/operating temperatures: -30°C +90°C

POMPE PER LIQUIDI CORROSIVI PUMPS FOR CORROSIVE LIQUIDS

HIJ ESB@HHÖ
Pumps for corrosive liquids

Settori d'impiego

Le pompe Affetti sono concepite per sopportare lavori gravosi in ambienti corrosivi. Acidi e basi concentrate, soluzioni alcaline o leggermente acide, acqua di mare, solventi alifatici ed aromatici, sono tra i liquidi più pompabili. I settori d'impiego nei quali vengono installate tali macchine sono di diverso tipo, tutti comunque accomunati dalla necessità di trasferire liquidi corrosivi o speciali.

Affetti Pumps have been designed to support heavy working conditions in Chemical zones. Acid and bases concentrated, alkaline Solutions or light acid, sea water, aliphatic or aromatic solvents, are the most pumped mediums.

Different are the application fields of our pumps, all of them with the demand to transfer Chemical or special liquids.

Application fields

AQUARIUMS

Il chimico, il galvanico, il siderurgico, il farmaceutico, il trattamento superficiale dei metalli, L'energetico, gli acquari marini, il conciario.

la depurazione dell'acqua e dell'aria, l'engineering, l'orticoltura, i fertilizzanti e pesticidi, gli impianti di dissalazione, il trattamento dei metalli preziosi, l'automobilistico, l'aeronautico ed altri sono tra i principali settori d'impiego.

Chemical, metallurgical, pharmaceutical, metal surface treatment, energy, water aquaria, air and water pollution, engineering, fertilizers and pesticides, desalination plants, gold and silver treatment, metallurgical, aeronautical and others are the most known applications.

Eventi

Sempre di più oggi il mercato richiede un'attenzione al modo di proporre i propri prodotti alla clientela.

La Affetti negli ultimi anni ha cercato sempre di più di acquisire porzioni di mercato sia in Italia che all'estero, utilizzando come veicoli pubblicitari le riviste e le partecipazioni a fiere nazionali ed internazionali.

Events

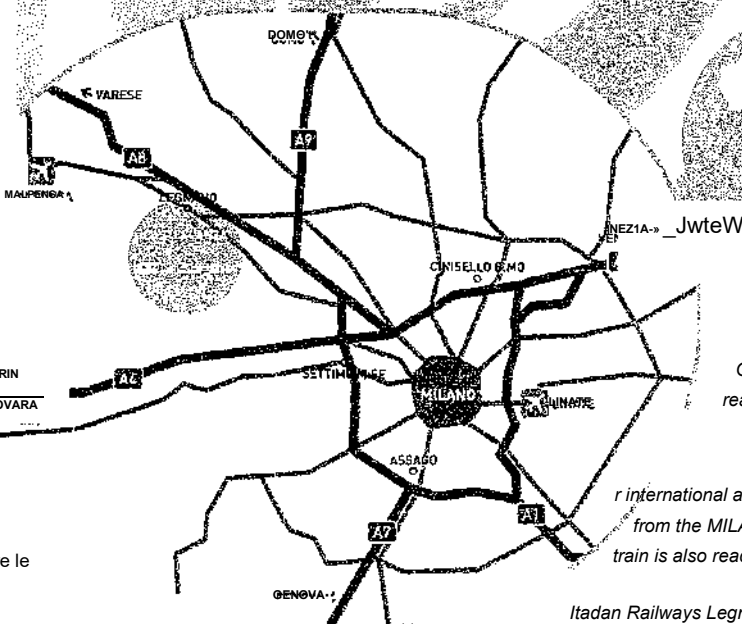
more than the market is paying a special attention to the different ways to spread knowledge of the company's production. Affetti in the last years, always more eager to gain market shares both in Italy than in the foreign market through the advertising in special publications and participation at

Dove siamo

Il nostro stabilimento è situato in una posizione geografica facilmente raggiungibile con qualsiasi mezzo di trasporto; Castellanza è collegata a Nord-Ovest di Milano da cui dista 25 km ed è posta in una zona che si vede vicinissimo l'aeroporto.

È roporto di Malpensa, 20 Km circa, e l'autostrada Milano-Laghi [Varese/Como] con un suo casello d'uscita.

può arrivare in treno da Milano utilizzando le Ferrovie Nord, oppure le Ferrovie dello Stato con scalo a Legnano.



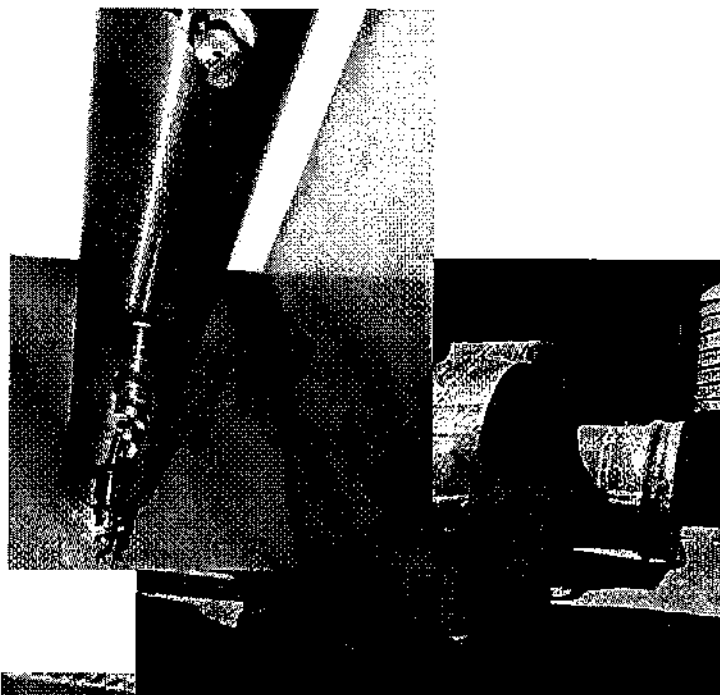
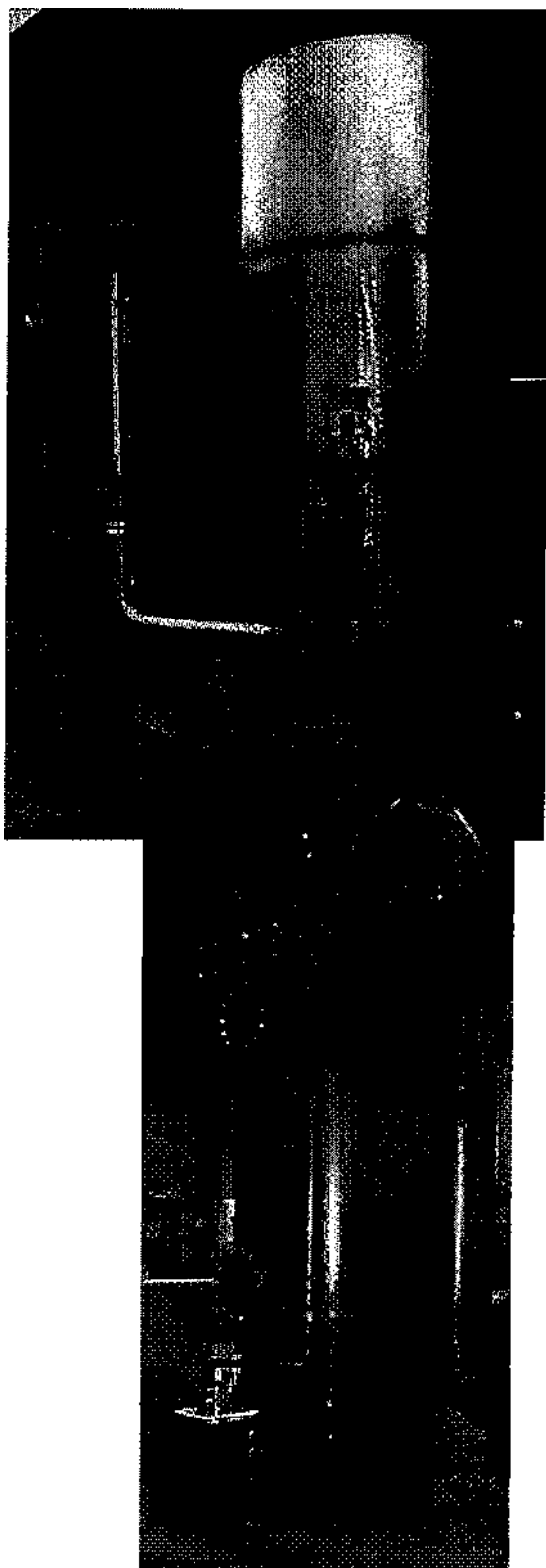
Where we are located

Our firm is located in a position easy to reach with different means of transport; Castellanza is 25 km North-west from Milan, 20 km from the international airport of Malpensa, at exit Castellanza from the MILAN-Lakes highway [Varese/Como]. By train is also reachable from Milan with Nord Railways or

Italian Railways Legnano station.

CEYKA

**ROSYA AZOV REGION FRITO LAY FACTORY
AND CVS SCRUBBER UNITS (2009)**



GVKA

Place to Install : Azov City, Rostov Region, Russia.
Scrubber Types : VSS and PS Scrubber Series.
Number of : 2 x VSS-1500 30.000m3/h Scrubber
Scrubbers : 1 x PS-1600 40.000m3/h Scrubber
: 1 x VSS-1900 44.000m3/h Scrubber
Temperature : 35 °

Pressure Drop in Scrubbers: max. 70mmSS

	: VSS-1500	: PS-1600	: VSS-1900
Flow	: 30.000m3/h.	: 40.000m3/h.	: 44.000m3/h.
Type	: VSS-1500	: PS-1600	: VSS-1900
Body Material	: AISI 304 stainless	: ST37-2 Carbon	: ST3-7-2 Carbon
Body Compressive Strength	: 1 OmBar.	: 1 OmBar.	: 1 OmBar
Efficiency	: %97	: %97	: %97
Odor Removal	: -	: -	: -
Gas Inlet	: 700x900mm	: 700x 1100mm	: 700 x 1200mm
Gas Outlet	: 0750mm	: 0800mm	: 0950mm
Body Height	: 4.000mm	: 4.000mm	: 4. 000mm
Gas Speed	: 2-2.5m/s.	: 2-2.5m/s.	: 2 - 2,5m/s.
Circus. Pump Qty	: 1 piece	: 1 piece	: 1 piece
Circus. Pump Flow	: 50m3/h	: 75m3/h	: 80m3/h
Circus. Pump Pressure	: 3 Bar	: 3 Bar	: 3 Bar
Circus. Pump Power	: 5,5KW	: 7,5KW	: 7,5KW
Circus. Pump Speed	: 3.000rpm	: 3.000rpm	: 3.000rpm
Tank Volume	: L,5m3	: 2m3	: 2m3
Tank PH Value	: -	: -	: ~7-8, 600mV
Drip Catcher	: -	: 01600x 1 00mm	: 0350 x 100mm
Rushing Ring High.	: -	: 1000mm	: 1500mm
Rushing Ring Resistance	: -	: 4 Mbar	: 4 mBar
Neutralization Tank	: -	: -	: Hydrochloric Acid tank
Maintenance Cover	: 1 piece	: 2 pcs.	: 1 piece
Control Panel	: There is.	: There is.	: There is.
Scrubber dimensions	: 1,500 x 1,500 x H4,500mm	: 1,600 x 1,600 x H4,500mm	: 1,500 x 1,500 x H4,500mm

CEYKA

Technical Specifications

- Heavy Duty Industrial Type Reinforced Body
- Horizontal cross-section centrifugal separator inlet.
- 4 Foot connections on the body.
- Bolted Type Maintenance Cover for Separator Inlet.
- Manually Adjustable and Lockable Venturi Damper
- Bete TFXP Type "Full cones" Spiral spray Nozzulan.
- 2.5" Pulverized Water Spray Dispensing Pipe
- Circulation Tanks for Scrubber units
- Temperature controlled For Circulation Tank
- Scrubber Inlet and Outlet Flanges
- Water Pumps, Level Sensor, Pressure Gauges, Flow Meter, Pneumatic Actuator in the Circulation System
- Supply Valve, Discharge Valves and Instruments.
- Spray Line Fittings Connection and Fittings Connections of Tank Supply and Discharge Valves in the Circulation System.
- Electrical Control Panels and Local Start-Stop Switches for remote operation with all internal wiring connections.

Trunk:

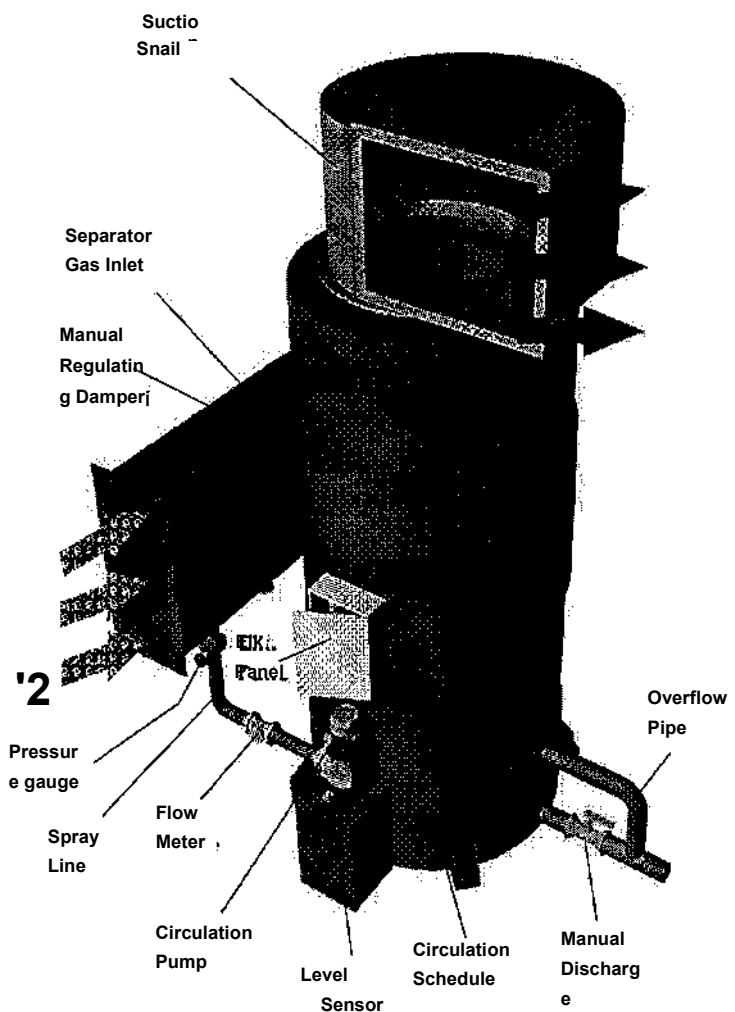
2 of them are made of AISI 304L and the other 2 are made of ST-37 Carbon Steel materials. The body is designed and manufactured with welded construction and to withstand 500mbar pressure. There will be a control and maintenance cover on the body and a water discharge at the bottom, and it is mounted on the Circulation Tank.

Carrier Chassis:

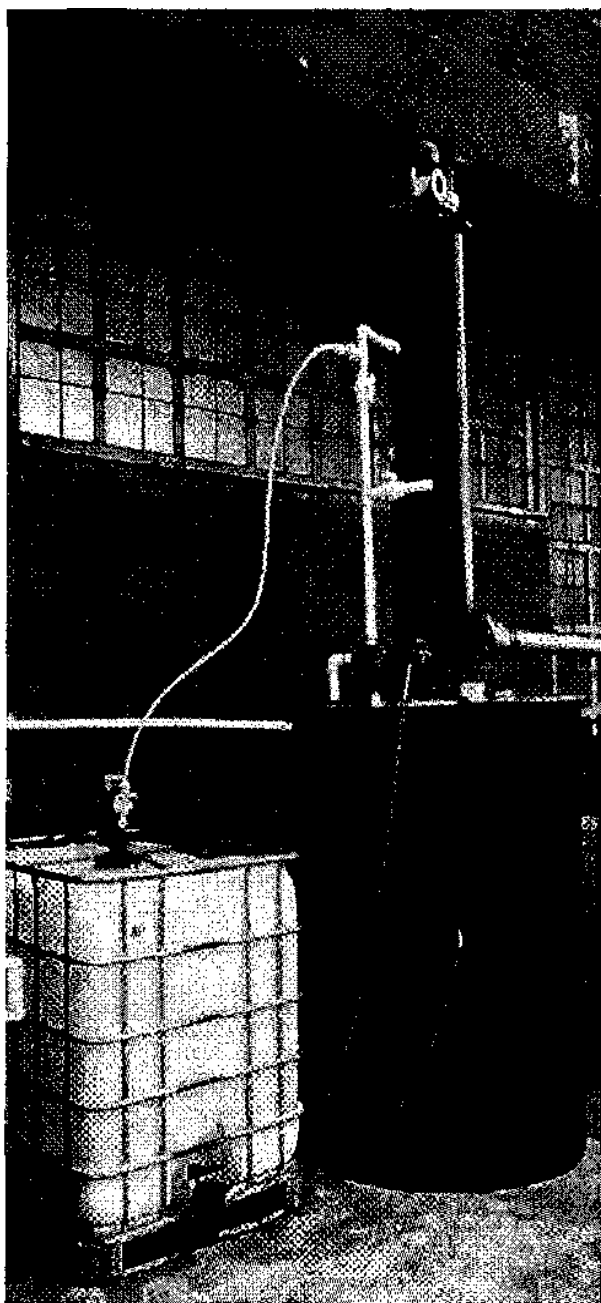
The foot connections under the Scrubber Units are placed on a chassis made of NPI-NPU Profile

Spray Line Pipe & Spiral Type Nozzle:

On the Dirty Gas Inlet line side, there is a Pulverized Water Dispenser Pipe with a Bete TFXP type Spiral Spray Nozzle on the 2 1/2" diameter Pipe. This line is fed with the Circulation Pump, and it is located at the dirty gas inlet



**MARLATEX TEXTILE
CHEMICALSFACTORYPS SCRUBBER
UNITSPURE NH3 GAS TREATMENT [2000-
2200ppm](2009)**



Flow	: 1.000m ³ /h.
Type	: WS-350
Body Material	: FRP (FRP) or PP
Compressive Strength	: 10mBar
Efficiency (Efficiency)	: %98
Odor Removal	: 2 oue/m ³ (20 mt. distance)
Gas Inlet Gas Outlet	: 3"
Body Height Gas Speed	: alOOmm
Circus. Pump Quantity	: 4.000mm :2-2.5m/s.
Circus. Pump Flow	: 1 piece
Circus. Pump Pressure	: 10m ³ /h
Circus. Pump Power	: 3 Bar
Circus. Pump Power	: 2,2KW
Circus. Pump Speed	: 3.000rpm
Tank Volume Tank PH	: 2m ³
Value Drop Catcher	: ~7-8, 600mV
Rushing Ring High.	: 0350 x IOOmm
Rushing Ring	: 1500mm
Resistance	: 4 mBar
Neutralization Tank	: Hydrochloric Acid tank (available)
Maintenance Hatch	: 1 quantity
Control Panel Scrubber	: There is.
Dimensions	: 1,500 x 1,500 x H4,500mm

Technical Specifications:

- Heavy Duty Industrial Type FRP or PP Reinforced Body
- Maintenance Cover.
- Full cones Spiral spray Nozzles.
- Water Spray Dispensing Pipes
- Built-in Circulation Tank
- Scrubber Inlet and Outlet Flanges.
- Water Pumps, Level Sensor, Pressure Gauges, Flow Control, Pneumatic Actuated Water Supply Valve, Ball Valves, Water Discharge Valves and Instruments in the Circulation System.
- Hydrochloric Acid Tank will be supplied by the Company and includes Level Sensors, Dosing Pumps, Check valves, Ball Valves and Instruments,
- Spray Line Fittings Connection and Fittings Connections of Tank Supply and Discharge Valves in the Circulation System.
- Electrical Control Panel and All internal wiring connections

Body:

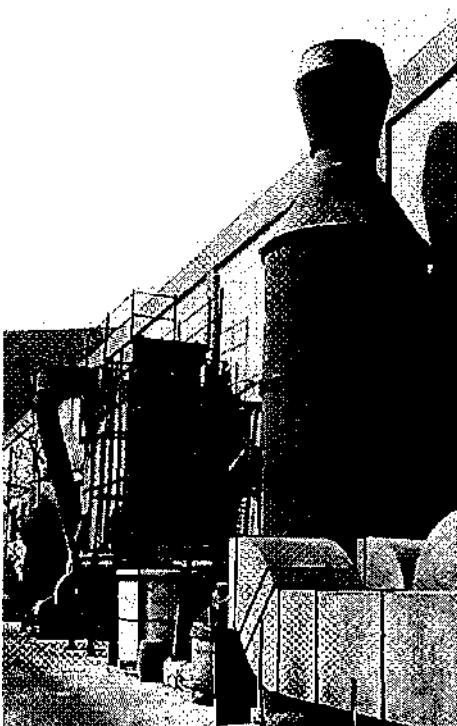
It is made of FRP (FRP) materials. The body is designed and manufactured to withstand IOmbar pressure. There is a control and maintenance cover on the body and a water drain discharge at the bottom.

Spray Line Pipe & Spiral Type Nozzles:

There are Rushing Rings on the Gas Inlet Line in the body. There is a Water Spray line on these Rings. The spray line will have Spiral Spray Nozzles and Water is Pulverized and sprayed towards the Rushing Rings. The supply of the line is done with the Circulation Pump.

CEYKA

SARAY CASTING FACTORY SCRUBBER UNIT. FURNACE OUTLET PURIFICATION (2001)



30.000m³/h Scrubber Deodorization Unit:

Flow	: 30.000m ³ /h.
Type	: CS-2000
Body Material Body	: ST37 -2 (inside Suya Day. Epoxi)
Compressive Strength	: 10mBar
Efficiency	: %95
Spray Line	: 2 Rows Cross Type Spraying
Gas Inlet	: 700 x 1000mm
Gas Outlet	: 0800mm
Body Height	: 7.000mm
Gas Speed	: 2 - 2,5m/s.
Circus. Pump Quantity	: 1 piece
Circus. Pump Flow	: 40m ³ /h
Circus. Pump Pressure	: 3 Bar
Circus. Pump Power	: 7,5KW
Circus. Pump Speed Tank	: 1,450rpm
Volume Tank PH Value	: 3m ³
Drop Catcher Rushing	: -
Ring High. Rushing Ring	: 02000. x 150mm
Resistance Neutralization	: -
Tank Maintenance Hatch	: -
Control Panel Scrubber	: 2 pcs.
Dimensions	: There is.
	: 2,500 x 2,500 x H7,500mm

Technical Specifications :

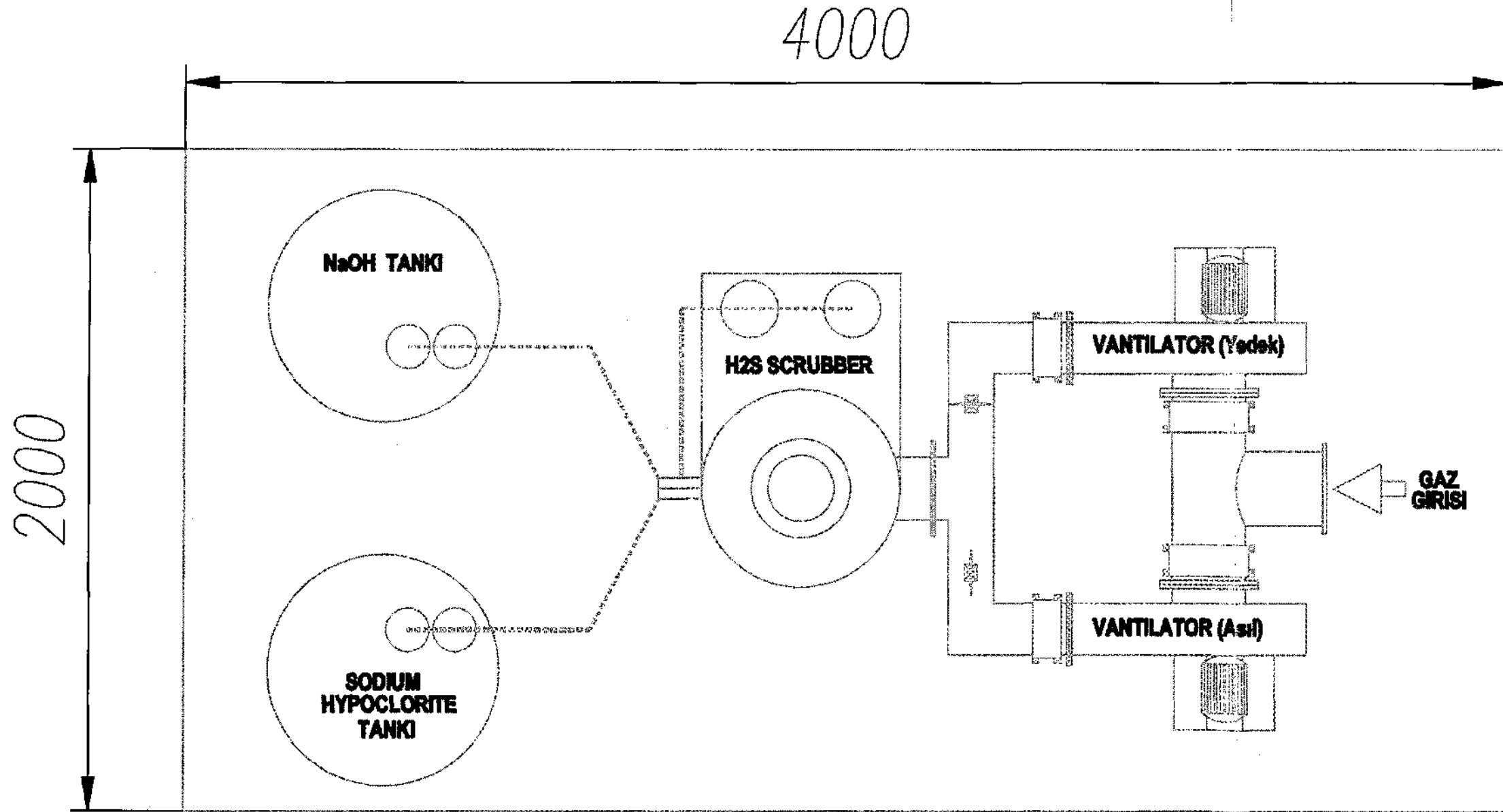
- Heavy Duty Industrial Type ST37-2 Reinforced Body
- Maintenance Cover.
- Full cones Spiral spray Nozzle.
- Water Spray Dispensing Pipes
- Built-in Circulation Tank
- Scrubber Inlet and Outlet Flanges.
- Water Pumps, Level Sensor, Pressure gauges, Flow Control, Pneumatic Actuated Water Supply Valve, Ball Valves, Water Discharge Valves and Instruments in the Circulation System.
- Spray Line Fittings Connection and Fittings Connections of Tank Supply and Discharge Valves in the Circulation System.
- Electrical Control Panels and All internal cabling connections

Body:

It is manufactured from ST37-2 materials. The body is designed and manufactured to withstand 10mbar pressure. There is a control and maintenance cover on the body and a water discharge at the bottom.

Spray Line Pipe & Spiral Type Nozzles:

There are 2 rows of Water Spray lines on the Gas Inlet Line in the body. The spray line will have Spiral Spray Nozzles and Water is Pulverized and sprayed towards the Rushing Rings. The supply of the line is done with the Circulation Pump.



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CEYKA



Quality Orientation
System
TSEN ISO, IEC 17021
AB-0044-YS

CERTIFICATE

**SZUTEST TECHNICAL CONTROL AND CERTIFICATION SERVICE. TIC.
LTD. STI.**

**With this
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Karadeniz Cad. Nö:47 Atasehir Istanbul / TURKEY

TS EN ISO 9001:2008

It confirms that it has a Quality Management System in accordance
with its conditions within the scope specified below.

**Providing the Production of Domestic and Industrial Water Treatment
Devices, Sales and Technical Services, Industrial Equipment and
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EA / NACE Code : 18/29.24, 29/51.55, 51.65
Document No. : 133009115
Document Historical : 26.II.2009
Effective Date : 25.11.2012

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