



OCCASION

This publication has been made available to the public on the occasion of the 50th anniversary of the United Nations Industrial Development Organisation.



DISCLAIMER

This document has been produced without formal United Nations editing. The designations employed and the presentation of the material in this document do not imply the expression of any opinion whatsoever on the part of the Secretariat of the United Nations Industrial Development Organization (UNIDO) concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries, or its economic system or degree of development. Designations such as "developed", "industrialized" and "developing" are intended for statistical convenience and do not necessarily express a judgment about the stage reached by a particular country or area in the development process. Mention of firm names or commercial products does not constitute an endorsement by UNIDO.

FAIR USE POLICY

Any part of this publication may be quoted and referenced for educational and research purposes without additional permission from UNIDO. However, those who make use of quoting and referencing this publication are requested to follow the Fair Use Policy of giving due credit to UNIDO.

CONTACT

Please contact <u>publications@unido.org</u> for further information concerning UNIDO publications.

For more information about UNIDO, please visit us at www.unido.org

222//



UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION

VIENNA - AUSTRIA

Contract 97 / 209 - Project MP / SYR / 97 / 016

PHASING - OUT OF THE USE OF CFC'S AT CARESSE COSMETICS

ALEPPO - SYRIA

FINAL REPORT

OCTOBER 1999



sicplant international s.r.l.

SUMMARY

- 1. GENERALITIES
- 2. ENGINEERING STUDIES
- 3. EQUIPMENT MAIN SPECIFICATIONS
- 4. TRAINING
- 5. EQUIPMENT DELIVERY
- 6. ASSEMBLY, START-UP AND PERFORMANCE TESTS
- 7. SAFETY CONCEPTS

ANNEXES:

- 1. SHIPPING DOCUMENTS (B/L and Packing List)
- 2. TRAINING ON SITE STATEMENTS
- 3. COMMISSIONING REPORT AND ACCEPTANCE CERTIFICATE
- 4. PHOTOS

1. GENERALITIES

In the frame of Montreal Protocol, UNIDO of Vienna has financed several projects for the reconversion of existing plants in third countries, with the purpose of phasing out of the CFC's chemicals in the production of various items (aerosol, refrigerators, panels), by replacing the same ones with a different kind of propellant / blowing agent, compatible with the natural environment and especially not damaging the ozone layer.

According to these premises, in September 1997 UNIDO and SICPLANT INTERNATIONAL S.r.l. have signed the Contract N° 97/209 - Project MP/SYR/97/016 for the provision of a complete package of technical services and supply of equipment and accessories related to the phasing out of CFC's at the aerosol plant of CARESSE COSMETICS in Aleppo, Syria.

The intervention object of the Contract has involved the following sector of the reconversion, that is:

• supply of a new plant for the aerosol cans filling with LPG as propellant, composed by filling machine, LPG storing tank, LPG distribution line.

All the activities concerning this project have been developed from September 1997 up to October 1999, date of start-up of the above mentioned plant.

2. ENGINEERING STUDIES

The engineering studies have been developed according to the results of meetings held in Syria with the Counterpart and the representative of the local Ministry of Environment - National Ozone Unit.

During these meetings, SICPLANT has received the drawing of the factory, with the location of the equipment, proposed by CARESSE.

The plant can be considered divided into the following basic sections:

- a LPG storing tank and distribution piping
- b Filling machine
- c Testing equipment and accessories

a - Storing tank and distribution piping

The area for LPG tank has been selected and agreed by the Parties, according to safety exigencies; the standards for location, as well as positioning and distances from the surrounding structures are the ones normally respected in European countries standards, that have been accepted by CARESSE.

According to these standards, the tank (fixed installation) has been located out of the ground, closed by reinforced concrete walls, under shed.

The system is equipped with all the safety devices (earthing, pressure control, temperature control, fire fighting plant controlled by pressure switch, gas detectors plant).

Transfer from LPG supplying tank to the fixed one by electric pump and from the fixed tank to the filling machine by pneumatic pumps.

The LPG piping from the tank to the filling machine is underground installation, protected against eddy currents by special device.

b - Filling machine

The LPG filling machine, pneumatically operating, is located into a special box (gas-house), monitored by gas detectors and equipped with 2 fans suction plant. Upon decision of CARESSE, the gas house has been closed into another box locally manufactured and installed.

The gas-house is designed in order to allow the expulsion of the shed in case of explosion inside.

Its location is outside the building, closed to the wall of the department of filled cans handling.

c - Testing equipment and accessories

After propellant filling, the cans enter the building by a conveyor equipment with hot water bath testing equipment (equipped with gas detectors and suction plant) and cans dryer.

The electric plant of these equipment is explosion proof.

The supply included no 10 explosion proof lamps that have been located in positions agreed with CARESSE.

The engineering project has been developed and has been completed by supplying the Counterpart with detailed drawings and specifications, in order to enable him to organize and realize any preparatory work prior to the assembly, that is:

- complete concrete structures civil work project for LPG tank
- machinery lay-out with utilities connections positions
- technical sheets with technical specifications of utilities connections (diameters, capacities, pressure, electric energy, etc.).

The project has been developed by complying with all the activities requested in the Contract.

3. EQUIPMENT MAIN SPECIFICATIONS

The phasing out of CFC's at the aerosol plant of CARESSE has been carried out by supplying the following machinery and equipment:

3.1 LPG Storing tank and distribution plant

consisting of:

- 3.1.1 N° 1 LPG tank, capacity 12.000 l, equipped with accessories (level gauge, pressure gauge, valves, safety devices, etc.), fixed type.
- 3.1.2 No 1 loading plant of the tank, including electric pump and accessories (valves, piping, safety devices, etc.).
- 3.1.3 N° 1 rack of 2 LPG pneumatic pumps to feed the filling machine, complete with accessories (valves, piping, LPG purification system, etc.).

REMARK:

Equipment listed at pos. 3.1.2 and 3.1.3 are located on the same rack.

- 3.1.4 LPG distribution piping with eddy current protection.
- 3.1.5 Electric board with earthing clamp.

3.2 Cans filling plant

consisting of:

- 3.2.1 Filling machine with gas-house and gases extraction plant.
- 3.2.2 Belt conveyor with water bath for testing and dryer.
- 3.2.3 Safety equipment (gas detectors).
- 3.2.4 Electric boards (operating and safety boards).

3.3 Accessories and spare parts

consisting of:

- 3.3.1 No. 10 explosion proof lightings.
- 3.3.2 Spare parts as per annexed lists signed for acceptance by the Counterpart.

4. EQUIPMENT DELIVERY

The supply of the equipment has been done by single shipment, complying with the Contract's requirements.

The shipment has been carried out on the basis of DDU plant site delivery and covered by transport insurance, as requested in the Contract.

As per the enclosed shipping documents copies (B/L and Packing List), the shipment has been done in June 1998.

The goods, duly packaged into wooden boxes and crates, have been shipped in containers.

At their arrival on site, any package has been removed from the containers and stored into a suitable store.

Packings conditions have been confirmed good by the inspection on site paid by the Ozone Office Unit responsible, Mr. Klaly.

5. TRAINING

The training has been developed on site, during start-up tests and it has involved the following steps:

- Operation and maintenance instructions for the different sections of the plant (LPG storing and distribution plant, filling machine, cans testing).
- Safety instructions about the proper handling in LPG storing and transferring from the supplying tank to the fixed one.

See in annex the statements issued by CARESSE and signed by the Parties.

6. ASSEMBLY, START-UP AND PERFORMANCE TESTS

Any equipment and spare parts have been found complying with the Contract technical specifications and taken in charge by CARESSE.

As per the Contract, the assembly activity had been planned to be developed by the local personnel, under the supervision of SICPLANT's responsibles, for the different plants and equipment.

Any assembly activity has been covered by insurance policy.

The assembly under direct supervision of SICPLANT's staff has been developed from 12.03.1999 up to 21.03.1999 and from 07.10.1999 to 09.10.1999, including start-up and performance tests.

The performance tests have been carried out on October 9th: each component of the plant has been tested separately and then the plant itself has been started-up completely with satisfactory results.

See the enclosed statements (Commissioning and Acceptance Certificate) signed by the Parties.

The total personnel engaged during the full period by SICPLANT side has been 4 specialists, for the different fields of intervention (electric plant, LPG storing and distribution, production machinery).

The official production start-up date is considered 09.10.1999, as stated in the enclosed Acceptance Certificate and this date has to be considered the starting one for the guarantee period.

7. SAFETY CONCEPTS

The phasing-out of CFC's replaced by LPG in the conversion of aerosol plants involves, as known, some risks in LPG (pure o mixed) handling, due to the chemical physical specifications of the new propellant.

The safety concepts adopted in CARESSE plant conversion are representing the usual ones (and in some case, more than the usual ones) followed for this kind of plants in Europe.

In the following pages are shown the technical measures foreseen for this plant.

1. LPG Storing area

- 1.1 Tank installed into a box by reinforced concrete structure.
- 1.2 Earthing of any metallic part.
- 1.3 Gas detectors installed by the tank.
- 1.4 Tank area covered by shed (with properly earthing), in order to protect and to assure natural air circulation.
- 1.5 Explosion proof electric equipment (motors, pressure switches, level gauge, etc.).
- 1.6 Earthing of the LPG supplying movable tank before gas transferring.
- 1.7 Automatic intervention of water sprinklers in case of LPG temperature / pressure increase.
- 1.8 Tank area completely fenced.
- 1.9 Special instructions to the assigned personnel (no smoking, no flames, no welding, spark proof tools use, etc.).
- 1.10 Special procedures to follow for any operation in the tank area.

sicplant international s.r.l.

- 2. LPG Distribution line
- 2.1 Piping with protection against eddy currents.
- 2.2 Piping welded.
- 2.3 Earthing of piping and supports.
- 3. Production equipment
- 3.1 Gas filling machine closed into box (gas-house) outside the building, equipped with gas detectors and two speeds ventilation fans; ventilation duct discharging in open air.
- 3.2 Gas filling machine pneumatically operating only.
- 3.3 Proper earthing of any metallic part.
- 3.4 Explosion proof lighting into the gas-house.
- 3.5 Water bath cans testing equipped with gas detectors and ventilation fan; ventilation duct discharging in open air.
- 3.6 Proper earthing of any metallic part of the conveyors line.
- 3.7 Explosion proof electric plant for any component of the conveyors line.
- 3.8 Explosion proof lightings.

4. Safety plant

It is basically composed by ventilation plant, gas detectors network and explosion proof electric plant. They are complying with the following requirements:

- 4.1 The technical specifications for the fan are:
 - . explosion proof motor
 - . spark-free wheel
 - . direct coupling fan / motor
 - . flow switch into the delivery duct.
- 4.2 Double speed fan, able to assure no less than 10 air changes per hour.
- 4.3 Continuous operation, also when the production plant doesn't work. In order to respect this basic condition, the safety plant (fans and gas detectors) has been connected to an independent electric energy source, able to guarantee the continuous operation also in case of failure of the main power for the production plant.
- 4.4 Gas detectors plant, composed by catalytic gas detectors, mainly installed near the floor, because of the specific weight of LPG gases.

 Explosion proof execution and adjustment for intervention as follows:
 - 20% of L.E.L.: alarm and doubling of fans speed
 - 30% of L.E.L.: in addition to the previous conditions, voltage cut-off of production equipment.
- 4.5 Proper earthing of any metallic part.

5. Prescriptions given to the operating personnel

During the training course on site, SICPLANT has emphasized the basic rules of behaviour for the operating personnel, that are, as known:

- absolute prohibition of smoking and free flames;
- warning notices in any interested place;
- no welding and / or grinding operation in the neighbourhood while the plant is working;
- use of spark proof tools only;
- no use of clothes by synthetic fiber (cotton is recommended);
- use of protection glasses and gloves while handling the LPG.

In any case, we remember that the security equipment and their operating conditions previously listed do not release the personnel from the attention and care requested while processing this kind of product: a failure caused by a not regular utilization of the plant, together with an eventual misoperation of gas detectors may involve a LPG vapours concentration higher than the allowed one, with possible risk increase.

RAMAR S.C.I. - RAVENIVA SANUS CONTAINER SERVICES S.A. (AS CARRIER)

nipper

SICPLANT INTERNATIONAL S.R.L. VIA STAURENSHI 37

21100 VARESE - ITALY

BILL OF LADING

IF THROUGH B/L INDICATE HERE (TYPE WORD "THROUGH")

__000033 B/L No. Prog: 3461

Vq. : 106

Rif.: EM4009B000636

onsignee (II "Order" state Notify Party and Address)

RESIDENT REPRESENTATIVE UNITED NATIONS DEVELOPMENT PROGRAMME (UNDP) ABOU ROUMANEH, 28 AL JALA'S STREET DAMASCUS/SYRIA ARAB REPUBLIC

agreed that no responsability shall attach to the Carrier or his Agents for failure to notify the signee of the arrival of the goods.

ptify Party and Address (leave blank if stated above)

Audionic deglio agli na peridende: Digita timo di nombro agli ni a qu

ges fillin

מפוניק והפתר להפת מנס ור פטלת לפפת

11 190

Andrew Mark

THE SAME AS CONSIGNEE

SARLIS CONTAINER SERVICES S.A.

Shipping Co. 85. Akti Miaouli **GR - 18538 PIRAEUS**

Phone NBR.: (1) 4291600 Fax NBR.: (1) 4291631

TIX NBR.: 212554 PEL GR ATTAKIA: STORAGE CHARGES ON THE TARE OF CONTAINERS ACCRUED FROM THE DATE OF DIS-CHARGE UP TO DATE OF UNSTUFFING TO BE ON RECEIVERS' ACCOUNT AND MOST BE PAID TO THE CARRIER'S AGENT PRIOR TO TAXING DELIVERY OF CARGO, THE ABOVE IS APPLICABLE IBRISPECTIVE ANY STORAGE CHARGES ON THE GROSS WEIGHT OF THE CONTAINER (S) WHICH THE RECEI VER MAY HAVE ALREADY PAID TO THE PORT COM PASHIPPERS STOW, LOAD AND COUNT

tended vessel PELFISHER

cal vessel

Intended Port of Loading CONVEVO

RAVENNA PORT/ITALY

From (Local port of loading)

Place of Acceptance

tended Port of Discharge LATTAKIA PORT/SYRIA Place of Delivery by On-Carrier

ALEPPO/SYRIA

larks and Nos; Container No;

Number and kind of packages; description of goods

Gross Weight

Measurement

6.weight

SAID TO CONTAIN:

Nr.container type SPRINGLOCK seal Description of goods 011325

CLOU 252529.9 20' BOX

PELU 416078.8 40' BOX 011388

9 CASES - G.W.KGS.8050

PROJECT NO. MP/SYR/97/016 - PLASHING-OUT OF THE USE OF CFC'S AT

"CAREESSE - COSMETICS" ALEPPO - SYRIAN ARAB REPUBLIC

SHIPMENT FOR TOTAL DELIVERY AS PER DETAILED LIST IN ANNEX

CONTRACT NO.97/079

FREIGHT PREPAID / DDU PLANT SITE ALEPPOLSYRIA

CLEAN ON BOARD RAVENNA

C/V PELFISHER, 30, 05.98

RA-MAR s.// - RAVENNA

AS AGENT FOR SARLIS CONTAINER SERVICES S.A.

(AS CARRIER)

CT.TARE 2300 KGS

3 CSS 3080.

CT.TARE 4000 KGS

6 CSS 4970.

pkgs

F.O.DSCHREETN ACCRONCE W/ATR 11/1 SYRIA MNSTRY OF TRNSPORT DECISION N.12 ISSUED 8/1/83 FIXNG AGNCY TARIFS A L DUES+CHRGS APPECBLE TO-CTS+CGO CONTAIND THERIN: I.E. ₽ LABORAGE, HANDLNG DUES, SHORE+FLOATNG CRAN

+OVERTIME (ONBOARD/ASHORE) FOR RCVR A/C

WE HEREBY CERTIFY THAT THE ABOVE -NAMED VESSEL IS NOT OWNED BY ANY ISRAEL SUBJECT AND WHILL NOT CALL AT ANY ISRAEL PORT ON HER PRESENT VOYAGE. WE FURTHER CERTIFY THAT THE VESSELS IS NOT ENTERED IN THE «BLAS 'IST»

Particulars of goods are those declared by Shippers

Kaka

reight details, charges, etc.

FAS/FOT

RECEIVED the goods in apparent good order and condition and, as far as ascertained by reasonable means of checking, as specified above unless otherwise stated. The Carrier, in accordance with the provisions contained in this document, and with those of the applicable tariff conditions (copies of which are available on request):

a) undertakes to perform or to procure the performance of the entire transport from the place of acceptance to the place of delivery.

b) assumes liability as prescribed in this document for such transport.

In accepting this bill of loading the Shipper, Consignee and Owners of the goods, and the holder of this bill of loading, agree to be bound by all of its conditions, exceptions and provisions whether written printed or stamped on the front or back hereof. CONTAINER AND VEHICLE DEMUSTRAGE. Attention is drawn to the Carrier's Terms and Conditions for Container and whicle Demurrage which apply to this Contract and which may be obtained from the Carriers or the Agents.

Freight Payable at the listered and ben entroined done in

Place and date of Issue ..

FREE TIME: 21 DAYS RUNNING DAYS. HOLIDAY INCLUDED AFT 21 DAYS TO THE CARRIER ARE TO PAY FOR EACH RUNNING

LAYDAY OR PART \$10/20' - \$ 20/40'

PREPAID

RAVENNA

30.05.98

Number of Original Bs/Lit sines

3/THREE

Number of Packages (tri Words)

In witness whereat the Master, Owner or Agent of the ship has affirmed to be purpled dhills of Lading stated above, all of this tenor and date, or the with the high accomplished his own travels and void.

ATTACHED LIST B/L NO.33

Contract 97/079 - Project MP/SYR/97/016

REF.	QTY	DESCRIPTION
17.2		MACHINERY AND EQUIPMENT
IV. 2.1	1	gas filling system.
IV. 2.2	1	conveyor system
IV. 2.3	1	universal water bath with drying device
IV. 2.4	1	lpg purification system
Y. 2,5	1	gas detection, ventilation and explosion proof lighting
V. 2.5	1	off-loading pump
V. 2.7	1	lpg storage tank

RA-MAR S.R.I. - RAVENNA
AS AGENT FOR
SAMES CONTAINER SERVICES S.A.
(AS CARRIER)

							,	· · · · · · · · · · · · · · · · · · ·		
CON	TRACT 97/079 - PROJECT I	4º MP	/ SYR / 97 / 0)16						
PHA	SING OUT OF CFC's at CARES	SE CO	SMETICS Co.	ALEPPO	- SYRI	Α				
Consid	nee / Place of delivery:									
RE	SIDENT REPRESENT	ATIVE						ļ		
UN	ITED NATIONS DEVEL	OPM	ENT PROC	RAMN	IE (UI	NDP)				·
Abo	u Roumaneh, 28 Al Jala's	Street ·	- DAMASCUS	SYRIA						
seller										
	PLANT INTERNATION	IAL -	VARESE /	ITALY	′					
POS	MANUFACTURER	PACK.	PACKA	SING		SIONS	}	WEIGH	fT (kg)	CONTENTS DESCRIPTION
<u> </u>		tot. n°	markings	type	length	width	height	gross	net	
	exemen.	3	COS 01/03	crate	390	92	222	1,190	900	maxikit, fan
 	COSTER		COS 02/03	crate	585	135	214	1,190		tank, belt conveyor
			COS 03/03	crate	328	130	156	1,430	700	
 -			000 00/00	- Grato	1 020	100	00	1,020	700	
2	COPRIM	5	COP 01/05	carton	120	120	100	300	250	various accessories (valves, fittings, instruments, etc)
			COP 02/05	crate	100	120	140	200		skid with pumps
			COP 03/05	==	650	150	200	3,200	3,200	tank
			COP 04/05	bundle	600	200	50	100	100	9 pre-assembled pipes
			COP 05/05	bundle	600	30	30	150	150	7 pre-assembled pipes
				<u> </u>	ļ					
3	IECI		IEC 01/01	case	100	80	231	460	300	2 electric table, 6 gas detectors, technical documentation
				 	-	 				
<u> </u>			<u> </u>				 			<u> </u>
 	TOTAL	9			 	 	-	8,050	6,480	
×	TOTAL	9	 	-	 	 	 	0,050	0,480	
		l	1	1			<u> </u>	<u> </u>		I



CONTRACT No. 97 / 079 - PROJECT No. MP/SYR/97/016 between UNIDO / Vienna and SICPLANT INTERNATIONAL / Varese

TRAINING OF CARESSE COSMETICS CO. - ALEPPO

CARESSE COSMETICS declare to have received from SICPLANT INTERNATIONAL personnel the training on site concerning the following equipment:

CANS FILLING PLANT

Personnel involved:	
SICPLANT INTERNATIONAL CO. (Coster	Co.) CARESSE COSMETICS CO.
FRONTINI VITTORIO	AHMAD SROUJI
	KHALED SROUJI
	ANAS SROUJI
CARESSE COSMETICS CO.	SICPLANT INTERNATIONAL CO.
	Cightun

Alenno 09/10 1999

CONTRACT No. 97 / 079 - PROJECT No. MP/SYR/97/016 between UNIDO / Vienna and SICPLANT INTERNATIONAL / Varese

TRAINING OF CARESSE COSMETICS CO. - ALEPPO

CARESSE COSMETICS declare to have received from SICPLANT INTERNATIONAL personnel the training on site concerning the following equipment:

STORING AND SAFETY PLANT

Personnel involved:	
SICPLANT INTERNATIONAL CO. (Coprim	Co.) CARESSE COSMETICS CO.
DE FACI CLAUDIO	AHMAD SROUJI
	KHALED SROUJI
SICPLANT INTERNATIONAL CO. (Ieci Co) ANAS SROUJI
PARISE FLAVIO	
CARESSE COSMETICS CO.	SICPLANT INTERNATIONAL CO.

Aleppo 09/10 1999

CONTRACT 97/079 - PROJECT N° MP/SYR/97/016 between UNIDO / Vienna and SICPLANT INTERNATIONAL / Varese

The BUYER

The CONTRACTOR

UNIDO / Vienna - Austria United Nations Industrial Development Organization SICPLANT INTERNATIONAL / Varese - Italy

The COUNTERPART

CARESSE COSMETICS CO. Aleppo / Syria

COMMISSIONING REPORT

The Commissioning Report of the cans filling plant is concerning the following parts:

PART 1: LPG storing tank and Distribution plant

PART 2: Cans filling plant

PART 3: Accessories and Spare parts

PART 1

LPG STORING TANK AND DISTRIBUTION PLANT

consisting of:

- 1.1 No 1 LPG tank, capacity 12.000 l, equipped with accessories (level gauge, pressure gauge, valves, safety devices, etc.).
- 1.2 N° 1 loading plant of the tank, including electric pump and accessories (valves, piping, etc.).
- 1.3 No 1 rack of 2 LPG pneumatic pumps to feed the filling machine, complete with accessories (valves, piping, LPG purification system, etc.).

REMARK:

Equipment listed at pos. 1.2 and 1.3 are located on the same rack.

- 1.4 LPG distribution piping.
- 1.5 Electric board.

PART 2

CANS FILLING PLANT

consisting of:

- 2.1 Filling machine with gas-house and gases extraction plant.
- 2.2 Water bath for cans testing, with dryer and belt conveyor.
- 2.3 Safety equipment (gas detectors).
- 2.4 Electric boards (operating and safety boards).

PART 3

ACCESSORIES AND SPARE PARTS

consisting of:

- 3.1 No. 10 explosion proof lighting.
- 3.2 Spare parts as per annexed lists approved and signed for acceptance by the Counterpart.

The COUNTERPART

CARESSE COSMETICS CO.

The CONTRACTOR

SICPLANT INTERNATIONAL CO.

Alenno

Casket OR- 132		CONTRACT 97/079 - PROJECT MP/SYR/97/016		
2 S-PZG PUMP	POS.	DESCRIPTION	CODE	QTY
1.1 Gasket OP- 237				
Casket OR- 132	1	25-PZG PUMP	25-PZG/R01	1
1.3 Gasket OR- 152 C335020 2	1.1	Gasket DI- 237	C326034	1
1.4 Gasket OR- 162 C335027 2	1.2	Gasket OR- 132	C335013	1
1.5 Gasket OR- 3050 C335096 1 1.6 Gasket OR- 4312 C335159 2 1.7 Gasket OR- 4320 C335181 1 1.8 Safce FM-011-D-0350-GEN C351059 2 1.9 Slyd ring S 55859-959-10 H10 C355008 0,5 m 1.10 Pipe fitting SO- 1 D. 8 C510015 6 1.112 Brass pipe SO- 1 D. 12 C510017 2 1.13 Pipe fitting SO- 2 D. 8X1/4 C510035 4 1.14 Brass pipe SO- 1100 D. 8X3/8 C510141 2 1.15 Brass pipe SO- 1100 D. 12X1/2 C510141 2 1.16 Rilsan pipe-8X6-black C670006 8 m 1.17 O410.160 spring 0410161 1 1.18 O410.160 spring 0410161 1 1.19 402.102 cup seal 4302102 1 1.20 4302.106 gasket 4302102 1 1.21 Floating piston 4302106 1 1.21 Floating piston 4309108 2 2 GAS REL 330ML 309108 2 2 GAS REL 330ML 309108 2 2 GAS REL 330ML 309108 1 2.1 Seeper ring E D. 25 C035026 2 2.2 Key Z36.8 X 4102 A 7 C160034 1 2.3 Gasket DE- 137 C322017 1 2.4 Gasket DE- 102 C350009 1 2.6 Gasket OR- 1008 C335104 1 2.7 Gasket OR- 1008 C335104 1 2.8 Gasket OR- 3067 C335104 1 2.9 Gasket OR- 3067 C335104 1 2.10 Gasket OR- 3067 C335104 1 2.11 Spring C335104 1 2.12 Gasket OR- 3067 C335104 1 2.13 Syd ring S 5889-959-10 H10 C3355008 0,5 m 2.14 Gasket OR- 3067 C335104 1 2.15 Spring O410141 1 2.16 Spring O410141 1 2.17 Spring O410141 1 2.18 Spring O41034 1 2.19 Gasket OR- 3067 C335104 1 2.10 Gasket OR- 3067 C335104 1 2.11 Gasket OR- 3067 C335104 1 2.12 Safco FM-012-D-0500-GEN C335104 1 2.13 Syd ring S 5889-959-10 H10 C355008 0,5 m 2.14 O410.141 spring O41014 1 2.15 Spring O410335 1 2.16 Spring O410335 1 2.17 Gasket OR- 3067 C335104 1 2.18 G02.103+6602.110 - assembled 6602103 1 2.19 Gasket OR- 3067 G335001 5 3.17 Wilkollan gasket OR- 3050 (OR 118) C338006 5 3.19 Wilkollan gasket OR- 3050 (OR 118) C338006 5 3.10 Wilkollan gasket OR- 3050 (OR 118) C338006 5 3.10 Vilkollan gasket OR- 3050 (OR 118) C338006 5 3.10 Vilkollan gasket OR- 3050 (OR 118) C338006 5 3.10 Vilkollan gasket OR- 3050 (OR 118) C338006 5 3.10 S02.102 rubber 5 3.00 S02	1.3	Gasket OR- 152	C335020	2
1.6 Gasket OR- 4312 C335159 2 1.7 Gasket OR- 4350 C335161 1 1.8 Safco FM-011-D-0350-GEN C351059 2 1.9 Slyd ring S 55859-959-10 H10 C355008 0,5 m 1.10 Pipe fitting SO- 1 D, 8 C510015 6 1.12 Brass pipe SO- 1 D, 12 C510017 2 1.13 Pipe fitting SO- 20 D, 8X1/4 C510035 4 1.14 Brass pipe SO- 1100 D, 8X3/8 C510141 2 1.15 Brass pipe SO- 1100 D, 12X1/2 C510145 2 1.16 Rilisan pipe-9X6-black C670006 8 m 1.17 O410,160 spring 0410160 1 1.18 0410,161 spring 0410161 1 1.19 4302.102 cup seal 4302102 1 1.20 4302,106 gasket 4302106 1 1.21 Floating piston 4309106 2 2 GAS FILL 330ML 4337R01 1 2.1 Seeger ring E D, 25 C035025 2 2.2 Key Z36,8 X 4102 A 7 C166034 1 2.3 Gasket DE- 137 C322017 1 2.4 Gasket DE- 137 C322017 1 2.5 Gasket DI- 062 C326009 1 2.6 Gasket DI- 082 C326009 1 2.7 Gasket OR- 108 C335002 1 2.9 Gasket OR- 2081 C335002 1 2.10 Gasket OR- 2081 C35509 1 2.11 Gasket OR- 2081 C35509 1 2.12 Gasket OR- 2081 C35509 1 2.13 Safco FM-012-D-0500-GEN C351046 2 2.14 O410,141 spring 0410141 1 2.15 Gasket OR- 3087 C335102 1 2.16 Safco FM-012-D-0500-GEN C351046 2 2.17 Gasket OR- 3087 C335102 1 2.18 6602,103+6502,110 - assembled 6602103 1 2.19 Gasket OR- 2080 5 2.10 Gasket OR- 3080 C35509 5 2.11 Gasket OR- 3080 C35509 5 2.12 Gasket OR- 3080 C35509 5 2.13 Slyd ring S 55859-959-10 H10 C355008 0,5 m 2.14 O410,141 spring 0410141 1 2.15 Gasket OR- 3080 C335001 5 2.16 Gasket OR- 3080 C335001 5 2.17 Gasket OR- 3080 C110 - assembled 6602103 1 2.18 6602,103+6602,110 - assembled 6602103 1 2.19 Gasket OR- 3080 CR 118) C335001 5 2.10 Gasket OR- 3090 CR 118) C335001 5 2.11 Gasket OR- 3090 CR 118) C335001 5 2.12 Gasket OR- 3090 CR 118) C338001 5 2.13 Slyd ring gasket OR- 3090 CR 118) C338001 5 2.14 O410,121 spring 0410121 2 2.15 Gasket OR- 3090 CR 118) C338001 5 2.17 Gasket OR- 3090 CR 118) C338001 5 2.18 Gasket OR- 3090 CR 118) C338001 5 2.19 Gasket OR- 3090 CR 118) C338001 5 2.10 Gasket OR- 3090 CR 118) C338001 5 2.11 Gasket OR- 3090 CR 118) C338001 5 2.12 Gasket OR- 3090 CR 118) C338001 5 2.13 S002.102 rubber 5 2.14 Vulkollan gasket OR- 3090 CR 118)	1.4		C335027	2
1.7 Gasket OR- 4350 Safce FM-011-D-0350-GEN Safce FM-011-D-0350-GEN C351059 2 Slyding S 55859-959-10 H10 C355008 0,5 m 1.10 Pipe fitting SO- 1 D. 8 C510015 6 1.12 Brass pipe SO- 1 D. 12 C510017 2 C5100145 2 C510015 4 1.14 Brass pipe SO- 1100 D. 8X3/8 C510141 2 C510145 2 1.16 Rilsan pipe-8X-6-black C670006 8 m 1.17 O410.160 spring O410.161 s	1.5	Gasket OR- 3050	C335096	11
1.8 Safco FM-011-D-0350-GEN C351059 2 1.9 Slyd ring S 55859-959-10 H10 C355008 0,5 m 1.0 Pipe fitting SO-1 D. 19 C510017 2 1.12 Brass pipe SO-1 D. 12 C510017 2 1.13 Pipe fitting SO-2 D. 8X1/4 C510035 4 1.14 Brass pipe SO-1100 D. 823/8 C510141 2 1.15 Brass pipe SO-1100 D. 12X1/2 C510145 2 1.16 Rilsan pipe-8X6-black C670006 8 m 1.7 O410.160 spring 0410160 1 1.18 O4210.161 spring 0410161 1 1.19 4302.102 cup seal 4302102 1 1.20 4302.106 gasket 4302106 1 1.21 Floating piston 4309108 2 2 CAS FILL 330ML 4183/R01 1 2.1 Seeger ring E D. 25 C035025 2 2.2 Key Z36.8 X 4102 A 7 C160034 1 2.1 Seeger ring E D. 25	1.6	Gasket OR- 4312	C335159	2
1.9 Slyd ring S 55859-959-10 H10 C355008 0,5 m 1.10 Pipe fitting SO- 1 D. 8 C510015 6 1.12 Brass pipe SO- 1 D. 12 C510017 2 1.13 Pipe fitting SO- 20 D. 8X1/4 C510035 4 1.14 Brass pipe SO- 1100 D. 8X3/8 C510141 2 1.15 Brass pipe SO- 1100 D. 12X1/2 C510145 2 1.16 Rissa pipe SO- 1100 D. 12X1/2 C510145 2 1.16 Rissa pipe SO- 1100 D. 12X1/2 C510145 2 1.16 Rissa pipe SO- 1100 D. 12X1/2 C510145 2 1.16 Rissa pipe SO- 1100 D. 12X1/2 C510145 2 1.16 Rilsan pipe-8X6-black C670006 8 m 1.17 O410.160 spring O410160 1 1.18 O410.161 spring O410161 1 1.19 4302.102 cup seal 4302102 1 1.21 Floating piston 4309108 2 2 QAS FILL 330ML 4468/R01 1 2	1.7	Gasket OR- 4350	C335161	
1.10 Pipe fitting SO- 1 D. 8 C510015 6 1.12 Brass pipe SO- 1 D. 12 C510017 2 1.13 Pipe fitting SO- 20 D. 8X1/4 C510035 4 1.14 Brass pipe SO- 1100 D. 8X3/8 C510141 2 1.15 Brass pipe SO- 1100 D. 12X1/2 C510145 2 1.16 Rilsan pipe-8X6-black C670006 8 m 1.17 O410.160 spring O410160 1 1.18 O410.161 spring O410161 1 1.19 4302.102 cup seal 4302102 1 1.20 4302.106 gasket 4302106 1 1.21 Floating piston 4409108 2 2 GAS FILL 330ML 4183/R01 1 2.1 Seeger ring E. D. 25 C035025 2 2.2 Key Z36.8 X 4102 A 7 C180034 1 2.3 Gasket DE- 137 G322017 1 2.4 Gasket DE- 187 G322017 1 2.5 Gasket DI- 062 G326009 1 2.6 Gasket DI- 082 G326009 1 2.7 Gasket OR- 2081 G335002 1 2.8 Gasket OR- 3087 G335104 1 2.9 Gasket OR- 3087 G335104 1 2.10 Gasket OR- 3100 G335104 1 2.11 Gasket OR- 4600 G335104 1 2.12 Safco FM-012-D-0500-GEN G351046 2 2.13 Slyd ring S 55859-959-10 H10 G355008 0.5 m 2.14 O410.141 spring O410114 1 2.15 Gasket DI- 9801 G335008 5 3 1 GAS HEAD COSTER G39000 5 3 1 GAS HEAD COSTER G39000 5 3 1 Gasket OR- 3050 CR 112 G38000 5 4 Vulkollan gasket OR- 112 G38000 5 5 0410.121 spring O410121 2 5 0450.103 gasket GR- 3050 CR 116 G38001 5 5 0410.121 spring O410121 2 5 0450.103 gasket GR- 3050 CR 116 G38001 5 5 0410.121 spring O410121 2 5 0	1.8	Safco FM-011-D-0350-GEN	C351059	2
1.12 Brass pipe SO- 1 D. 12 C510017 2	1.9			0,5 m
1.13 Pipe fitting SO- 20 D. 8X1/4 C510035 4 1.14 Brass Pipe SO- 1100 D. 8X3/8 C510141 2 1.15 Brass Pipe SO- 1100 D. 12X1/2 C510145 2 1.16 Rilsan Pipe-8X6-black C670006 8 m 1.17 O410.160 spring O410160 1 1.18 O410.161 spring O410161 1 1.19 4302.102 cup seal 4302102 1 1.20 4302.106 gasket 4302106 1 1.21 Floating Piston 4309108 2 2 GAS FILL 330ML 4183/R0] 1 2 Seeger ring E D. 25 C035026 2 2 Key Z36.8 X 4102 A 7 C160034 1 2.3 Gasket DE- 625525 C322062 1 2.4 Gasket DE- 625525 C322062 1 2.5 Gasket DI- 062 C326009 1 2.6 Gasket OR- 108 C335002 1 2.7 Gasket OR- 2081 C335002 1 2.8 Gasket OR- 3087 C335102 1 2.9 Gasket OR- 3087 C335102 1 2.1 Safos FM-012-D-0500-GEN C335104 1 2.1 Safos FM-012-D-0500-GEN C335104 1 2.1 Safos FM-012-D-0500-GEN C335104 1 2.1 Spring O410114 1 2.1 Spring O410141 1 2.1 Gasket DR- 2051 C335008 0,5 m 2.1 Gasket OR- 3087 C335104 1 2.1 Gasket OR- 3080 C335104 1 2.1 Safos FM-012-D-0500-GEN C335008 0,5 m 2.1 Gasket OR- 3080 C335104 1 2.1 Safos FM-012-D-0500-GEN C335104 1 2.1 Safos FM-012-D-0500-GEN C335104 1 2.1 Gasket OR- 4600 C335104 1 2.1 Gasket OR- 4600 C335104 1 2.1 Safos FM-012-D-0500-GEN C351046 2 2.1 Spring O410335 1 2.1 Gasket OR- 3087 G33600 5 3 YUkollan gasket OR- 112 C338006 5 3 Yukollan gasket OR- 112 C338006 5 3 Vulkollan gasket OR- 112 C338006 5 4 Vulkollan gasket OR- 112 C338006 5 5 S01.103 gasket S01103 4	1.10		C510015	6
1.14 Brass pipe SO- 1100 D. 8X3/8 C510141 2	1.12		C510017	
1.15 Brass pipe SO- 1100 D. 12X1/2 C510145 2 1.16 Rilsan pipe-8X6-black C670006 8 m 1.17 O410.160 spring 0410160 1 1.18 O410.161 spring 0410161 1 1.19 4302.102 cup seal 4302102 1 1.20 4302.106 gasket 4302106 1 1.21 Floating piston 4309108 2 2 CAS FILL 330ML 4183/R01 1 2.1 Seeger ring E D. 25 C035025 2 2.2 Key Z36.8 X 4102 A 7 C160034 1 2.3 Gasket DE- 137 C322017 1 2.4 Gasket DE- 625525 C322062 1 2.5 Gasket DI- 662 C326009 1 2.6 Gasket DI- 1062 C326015 1 2.7 Gasket OR- 108 C335002 1 2.8 Gasket OR- 2081 C335002 1 2.1 Gasket OR- 3100 C335104 1 2.1 Gasket OR- 3100 C335104 1 2.11	1.13			
1.16 Rilsan pipe-8X6-black C670006 8 m 1.17 0410.160 spring 0410160 1 1.18 0410.161 spring 0410161 1 1.19 4302.102 cup seal 4302102 1 1.20 4302.106 gasket 4302106 1 1.21 Floating piston 4309108 2 2 CAS FILL 330ML 4183/R01 1 2.1 Seeger ring E D. 25 C035025 2 2.2 Key Z36.8 X 4102 A 7 C160034 1 2.3 Gasket DE- 137 C322017 1 2.4 Gasket DE- 625525 C322062 1 2.5 Gasket DI- 062 C326009 1 2.6 Gasket DI- 100 C326015 1 2.7 Gasket OR- 108 C335002 1 2.8 Gasket OR- 108 C335002 1 2.10 Gasket OR- 3087 C335104 1 2.10 Gasket OR- 3100 C335104 1 2.11 Gasket OR- 4600 C335104 1 2.12 Safce FM-0	1.14			
1.17 0410.160 spring 0410160 1 1.18 0410.161 spring 0410161 1 1.19 4302.102 cup seal 4302102 1 1.20 4302.106 gasket 4302106 1 1.21 Floating piston 4309108 2 2 GAS FILL 330ML 4183/R01 1 2.1 Seeger ring E D. 25 C035025 2 2.2 Key Z36.8 X 4102 A 7 C180034 1 2.3 Gasket DE- 137 G322017 1 2.4 Gasket DE- 52525 C322062 1 2.5 Gasket DI- 062 G326009 1 2.6 Gasket DI- 062 G326015 1 2.7 Gasket OR- 108 G335002 1 2.8 Gasket OR- 2081 G335004 1 2.9 Gasket OR- 3087 G335102 1 2.10 Gasket OR- 3100 G335104 1 2.11 Gasket OR- 4600 G335104 1 2.12 Safco FM-012-D-0500-GEN G355046 2 2.13 Slyd ring S 55859-959-10 H10 G355008 0,5 m 2.14 O410.141 spring (inox) O410114 1 2.15 O410.141 spring (inox) G410114 1 2.16 Spring G410335 1 3 1" GAS-HEAD COSTER 3103/R01 5 3.0 Vulkollan gasket OR- 112 G338006 5 3.5 Vulkollan gasket OR- 112 G338006 5 3.5 Vulkollan gasket OR- 112 G338010 5 3.6 S302.102 rother S801103 4	1.15			
1.18	1.16			8 m
1.19 4302.102 cup seal 4302102 1 1.20 4302.106 gasket 4302106 1 1.21 Floating piston 4309108 2 2 GAS FILL 330ML 4183/R01 1 2.1 Seeger ring E D. 25 C035025 2 2.2 Key Z36.8 X 4102 A 7 C160034 1 2.3 Gasket DE- 137 C322017 1 2.4 Gasket DE- 625525 C322062 1 2.5 Gasket DI- 062 C326009 1 2.6 Gasket DI- 100 C326015 1 2.7 Gasket OR- 108 C335002 1 2.8 Gasket OR- 2081 C335002 1 2.9 Gasket OR- 3087 C335102 1 2.10 Gasket OR- 3100 C335104 1 2.11 Gasket OR- 4600 C335104 1 2.12 Safco FM-012-D-0500-GEN C335104 1 2.13 Slyd ring S 55859-959-10 H10 C355008 0,5 m 2.14 O410.114 spring (inox) O410114 1 2.15 O410.141 spring O410141 1 2.16 Spring O410141 1 2.17 G109.102 seal G602.110 - assembled G602103 1 2.18 G602.103+6602.110 - assembled G602103 1 3 1" GAS HEAD COSTER 3103/R01 1 3 1" GAS HEAD COSTER 3103/R01 1 3 4 Vulkollan gasket OR- 112 C338001 5 3 Vulkollan gasket OR- 112 C338006 5 3 Vulkollan gasket OR- 112 C3380102 5 3 500.1103 gasket 5801.03 4	1.17		0410160	11
1.20	1.18		0410161	11
1.21 Floating piston	1.19			1
2 GAS FILL 330ML 2.1 Seeger ring E D. 25 2.2 Key Z36.8 X 4102 A 7 2.3 Gasket DE- 137 2.4 Gasket DE- 625525 3.5 Gasket DI- 662 3.5 Gasket DI- 662 3.6 Gasket DI- 062 3.7 Gasket DI- 100 3.8 Gasket DI- 100 3.8 Gasket DI- 100 3.8 Gasket OR- 108 3.9 Gasket OR- 2081 3.9 Gasket OR- 2081 3.9 Gasket OR- 3087 3.10 Gasket OR- 3100 3.35084 3.1 Caster OR- 3087 3.1 Caster OR- 3087 3.2 Caster OR- 3087 3.2 Caster OR- 3087 3.3 Slyd ring S 55859-959-10 H10 3.1 Gasket OR- 308 3.1 Caster OR- 308 3.2 Caster OR- 308 3.3 Vulkollan gasket OR- 112 3.4 Caster OR- 308 3.5 OA- 112 pring 3.6 G602.103 pasket OR- 112 3.7 Gasket OR- 305 (OR 116) 3.8 Caster OR- 305 (OR 116) 3.9 Caster OR- 305 (OR 116) 3.0 Caster OR- 305 (OR 116) 3.1 Caster OR- 305 (OR 116) 3.2 Caster OR- 305 (OR 116) 3.3 Caster OR- 305 (OR 116) 3.4 Caster OR- 305 (OR 116) 3.5 OA10.121 spring 3.6 S302.102 rubber 3.7 S801.103 gasket 3.7 S801.103 gasket 3.8 Caster OR- 305 (OR 116) 3.8 Caster OR- 305 (OR 116) 3.9 Caster OR- 305 (OR 116) 3.9 Caster OR- 305 (OR 116) 3.0 Caster OR- 305 (OR 116)	1.20			— <u> </u>
2.1 Seeger ring E D. 25 C035025 2 2.2 Key Z368 X 4102 A 7 C160034 1 2.3 Gasket DE- 137 C322017 1 2.4 Gasket DE- 625525 C322062 1 2.5 Gasket DI- 062 C326009 1 2.6 Gasket DI- 100 C326015 1 2.7 Gasket OR- 108 C335002 1 2.8 Gasket OR- 2081 C335084 1 2.9 Gasket OR- 3087 C335102 1 2.10 Gasket OR- 3100 C335104 1 2.11 Gasket OR- 4600 C335181 1 2.12 Safco FM-012-D-0500-GEN C355008 0,5 m 2.13 Slyd ring S 55859-959-10 H10 C355008 0,5 m 2.14 O410.114 spring (inox) 0410114 1 2.15 O410.141 spring 0410141 1 2.16 Spring 0410335 1 2.17 6109.102 seal 6109102 1 2.18 6602.103+6602.110 - assembled 6602103 1 <td< td=""><td>1.21</td><td>Floating piston</td><td>4309108</td><td>2</td></td<>	1.21	Floating piston	4309108	2
2.2 Key Z36.8 X 4102 A 7 C160034 1 2.3 Gasket DE- 137 C322017 1 2.4 Gasket DE- 625525 C322062 1 2.5 Gasket DI- 062 C326009 1 2.6 Gasket DI- 100 C326015 1 2.7 Gasket OR- 108 C335002 1 2.8 Gasket OR- 2081 C335084 1 2.9 Gasket OR- 3087 C335102 1 2.10 Gasket OR- 3100 C335102 1 2.11 Gasket OR- 4600 C335104 1 2.12 Safcor FM-012-D-0500-GEN C351046 2 2.13 Slyd ring S 55859-959-10 H10 C355008 0,5 m 2.14 0410.114 spring (inox) 0410114 1 2.15 0410.141 spring 0410141 1 2.16 Spring 0410335 1 2.17 6109.102 seal 6109102 1 2.18 6602.103+6602.110 - assembled 6604100 1 3.1 Key tool for 5801 C160032 1 3.2	2	GAS FILL 330ML	4183/R01	1
2.3 Gasket DE- 137 C322017 1 2.4 Gasket DE- 625525 C322062 1 2.5 Gasket DI- 062 C326009 1 2.6 Gasket DI- 100 C326015 1 2.7 Gasket OR- 108 C335002 1 2.8 Gasket OR- 2081 C335084 1 2.9 Gasket OR- 3087 C335102 1 2.10 Gasket OR- 3100 C335104 1 2.11 Gasket OR- 4600 C335104 1 2.12 Safco FM-012-D-0500-GEN C351046 2 2.13 Slyd ring S 55859-959-10 H10 C355008 0,5 m 2.14 O410.114 spring (inox) 0410114 1 2.15 0410.141 spring (inox) 0410114 1 2.16 Spring 0410.335 1 2.17 6109.102 seal 6109102 1 2.18 6602.103+6602.110 - assembled 6602.103 1 2.19 6604.100 washer 6604100 1 3.1 Key tool for 5801 C160032 1 <td< td=""><td>2.1</td><td>Seeger ring E D. 25</td><td>C035025</td><td>2</td></td<>	2.1	Seeger ring E D. 25	C035025	2
2.4 Gasket DE- 625525 C322062 1 2.5 Gasket DI- 062 C326009 1 2.6 Gasket DI- 100 C326015 1 2.7 Gasket OR- 108 C335002 1 2.8 Gasket OR- 2081 C335084 1 2.9 Gasket OR- 3087 C335102 1 2.10 Gasket OR- 3100 C335104 1 2.11 Gasket OR- 4600 C335181 1 2.12 Safco FM-012-D-0500-GEN C351046 2 2.13 Slyd ring S 55859-959-10 H10 C355008 0,5 m 2.14 0410.114 spring (inox) 0410114 1 2.15 0410.141 spring (inox) 0410114 1 2.16 Spring 0410335 1 2.17 6109.102 seal 6109102 1 2.18 6602.103+6602.110 - assembled 6602103 1 2.19 6604.100 washer 6604100 1 3.1 Key tool for 5801 C160032 1 3.2 Gasket DI- 025 C326003 5 3	2.2	Key Z36.8 X 4102 A 7	C160034	1
2.5 Gasket DI- 062 C326009 1 2.6 Gasket DI- 100 C326015 1 2.7 Gasket OR- 108 C335002 1 2.8 Gasket OR- 2081 C335084 1 2.9 Gasket OR- 3087 C335102 1 2.10 Gasket OR- 3100 C335104 1 2.11 Gasket OR- 4600 C335181 1 2.12 Safco FM-012-D-0500-GEN C351046 2 2.13 Slyd ring S 55859-959-10 H10 C355008 0,5 m 2.14 O410.114 spring (inox) 0410114 1 2.15 O410.141 spring (inox) 0410141 1 2.16 Spring 0410335 1 2.17 6109.102 seal 6109102 1 2.18 6602.103+6602.110 - assembled 6602103 1 2.19 6604.100 washer 6604100 1 3.1 Key tool for 5801 C160032 1 3.1 Key tool for 5801 C160032 1 3.2 Gasket DI- 025 C326003 5 3	2.3	Gasket DE- 137	C322017	1
2.6 Gasket DI- 100 C326015 1 2.7 Gasket OR- 108 C335002 1 2.8 Gasket OR- 2081 C335084 1 2.9 Gasket OR- 3087 C335102 1 2.10 Gasket OR- 3100 C335104 1 2.11 Gasket OR- 4600 C335181 1 2.12 Safco FM-012-D-0500-GEN C351046 2 2.13 Slyd ring S 55859-959-10 H10 C355008 0,5 m 2.14 O410.114 spring (inox) O410114 1 2.15 O410.141 spring (inox) O410141 1 2.16 Spring O410335 1 2.17 6109.102 seal 6109102 1 2.18 6602.103+6602.110 - assembled 6602103 1 2.19 6604.100 washer 6604100 1 3 31 GAS HEAD COSTER 3103/H01 1 3.1 Key tool for 5801 C160032 1 3.2 Gasket DI- 025 C338001 5 3.3 Vulkollan gasket OR 3050 (OR 116) C338006 5	2.4	Gasket DE- 625525	C322062	1
2.7 Gasket OR- 108 C335002 1 2.8 Gasket OR- 2081 C335084 1 2.9 Gasket OR- 3087 C335102 1 2.10 Gasket OR- 3100 C335104 1 2.11 Gasket OR- 4600 C335181 1 2.12 Safco FM-012-D-0500-GEN C351046 2 2.13 Slyd ring S 55859-959-10 H10 C355008 0,5 m 2.14 O410.114 spring (inox) 0410114 1 2.15 O410.141 spring 0410141 1 2.16 Spring 0410335 1 2.17 6109.102 seal 6109102 1 2.18 6602.103+6602.110 - assembled 6602103 1 2.19 6604.100 washer 6604100 1 3.1 Key tool for 5801 C160032 1 3.2 Gasket DI- 025 C326003 5 3.3 Vulkollan gasket OR- 112 C338001 5 3.4 Vulkollan gasket OR 3050 (OR 116) C338006 5 3.5 0410.121 spring 0410121 2	2.5	Gasket DI- 062	C326009	11
2.8 Gasket OR- 2081 C335084 1 2.9 Gasket OR- 3087 C335102 1 2.10 Gasket OR- 3100 C335104 1 2.11 Gasket OR- 4600 C335181 1 2.12 Safco FM-012-D-0500-GEN C351046 2 2.13 Slyd ring S 55859-959-10 H10 C355008 0,5 m 2.14 O410.114 spring (inox) 0410114 1 2.15 O410.141 spring 0410141 1 2.16 Spring 0410335 1 2.17 6109.102 seal 6109102 1 2.18 6602.103+6602.110 - assembled 6602103 1 2.19 6604.100 washer 6604100 1 3 1" GAS HEAD COSTER 3103/R01 1 3.1 Key tool for 5801 C160032 1 3.2 Gasket DI- 025 C326003 5 3.3 Vulkollan gasket OR- 112 C338001 5 3.4 Vulkollan gasket OR 3050 (OR 116) C338006 5 3.5 0410.121 spring 0410121 2	2.6			1
2.9 Gasket OR- 3087 C335102 1 2.10 Gasket OR- 3100 C335104 1 2.11 Gasket OR- 4600 C335181 1 2.12 Safco FM-012-D-0500-GEN C351046 2 2.13 Slyd ring S 55859-959-10 H10 C355008 0,5 m 2.14 0410.114 spring (inox) 0410114 1 2.15 0410.141 spring 0410141 1 2.16 Spring 0410335 1 2.17 6109.102 seal 6109102 1 2.18 6602.103+6602.110 - assembled 6602103 1 2.19 6604.100 washer 6604100 1 3 1°GAS HEAD COSTER 3103/R01 1 3.1 Key tool for 5801 C160032 1 3.2 Gasket DI- 025 C326003 5 3.3 Vulkollan gasket OR- 112 C338001 5 3.4 Vulkollan gasket OR 3050 (OR 116) C338006 5 3.5 0410.121 spring 0410121 2 3.6 5302.102 rubber 5302102 5 <td></td> <td>Gasket OR- 108</td> <td>C335002</td> <td>1</td>		Gasket OR- 108	C335002	1
2.10 Gasket OR- 3100 C335104 1 2.11 Gasket OR- 4600 C335181 1 2.12 Safco FM-012-D-0500-GEN C351046 2 2.13 Slyd ring S 55859-959-10 H10 C355008 0,5 m 2.14 0410.114 spring (inox) 0410114 1 2.15 0410.141 spring 0410141 1 2.16 Spring 0410335 1 2.17 6109.102 seal 6109102 1 2.18 6602.103+6602.110 - assembled 6602103 1 2.19 6604.100 washer 6604100 1 3 1**GAS HEAD COSTER 3103/R01 1 3.1 Key tool for 5801 C160032 1 3.2 Gasket DI- 025 C326003 5 3.3 Vulkollan gasket OR 3050 (OR 116) C338001 5 3.4 Vulkollan gasket OR 3050 (OR 116) C338006 5 3.5 0410.121 spring 0410121 2 3.6 5302.102 rubber 5302.102 5 3.7 5801.103 gasket 5801.103 4 </td <td>2.8</td> <td>Gasket OR- 2081</td> <td>C335084</td> <td>1</td>	2.8	Gasket OR- 2081	C335084	1
2.11 Gasket OR- 4600 C335181 1 2.12 Safco FM-012-D-0500-GEN C351046 2 2.13 Slyd ring S 55859-959-10 H10 C355008 0,5 m 2.14 0410.114 spring (inox) 0410114 1 2.15 0410.141 spring 0410141 1 2.16 Spring 0410335 1 2.17 6109.102 seal 6109102 1 2.18 6602.103+6602.110 - assembled 6602103 1 2.19 6604.100 washer 6604100 1 3 1"GAS HEAD COSTER 3103/R01 1 3.1 Key tool for 5801 C160032 1 3.2 Gasket DI- 025 C326003 5 3.3 Vulkollan gasket OR- 112 C338001 5 3.4 Vulkollan gasket OR 3050 (OR 116) C338006 5 3.5 0410.121 spring 0410121 2 3.6 5302.102 rubber 5302102 5 3.7 5801.103 gasket 5801.103 4	2.9	Gasket OR- 3087		1
2.12 Safco FM-012-D-0500-GEN C351046 2 2.13 Slyd ring S 55859-959-10 H10 C355008 0,5 m 2.14 0410.114 spring (inox) 0410114 1 2.15 0410.141 spring 0410141 1 2.16 Spring 0410335 1 2.17 6109.102 seal 6109102 1 2.18 6602.103+6602.110 - assembled 6602103 1 2.19 6604.100 washer 6604100 1 3 1"GAS HEAD COSTER 3103/R01 1 3.1 Key tool for 5801 C160032 1 3.2 Gasket DI- 025 C326003 5 3.3 Vulkollan gasket OR- 112 C338001 5 3.4 Vulkollan gasket OR 3050 (OR 116) C338006 5 3.5 0410.121 spring 0410121 2 3.6 5302.102 rubber 5302102 5 3.7 5801.103 gasket 5801103 4	2.10		C335104	1
2.13 Slyd ring S 55859-959-10 H10 C355008 0,5 m 2.14 0410.114 spring (inox) 0410114 1 2.15 0410.141 spring 0410141 1 2.16 Spring 0410335 1 2.17 6109.102 seal 6109102 1 2.18 6602.103+6602.110 - assembled 6602103 1 2.19 6604.100 washer 6604100 1 3.1 Key tool for 5801 C160032 1 3.2 Gasket DI- 025 C326003 5 3.3 Vulkollan gasket OR- 112 C338001 5 3.4 Vulkollan gasket OR 3050 (OR 116) C338006 5 3.5 0410.121 spring 0410121 2 3.6 5302.102 rubber 5302102 5 3.7 5801.103 gasket 5801.103 4		***		
2.14 0410.114 spring (inox) 0410114 1 2.15 0410.141 spring 0410141 1 2.16 Spring 0410335 1 2.17 6109.102 seal 6109102 1 2.18 6602.103+6602.110 - assembled 6602103 1 2.19 6604.100 washer 6604100 1 3.1 Key tool for 5801 C160032 1 3.2 Gasket DI- 025 C326003 5 3.3 Vulkollan gasket OR- 112 C338001 5 3.4 Vulkollan gasket OR 3050 (OR 116) C338006 5 3.5 0410.121 spring 0410121 2 3.6 5302.102 rubber 5302102 5 3.7 5801.103 gasket 5801103 4	2.12			
2.15 0410.141 spring 0410141 1 2.16 Spring 0410335 1 2.17 6109.102 seal 6109102 1 2.18 6602.103+6602.110 - assembled 6602103 1 2.19 6604.100 washer 6604100 1 3.1 Key tool for 5801 C160032 1 3.2 Gasket DI- 025 C326003 5 3.3 Vulkollan gasket OR- 112 C338001 5 3.4 Vulkollan gasket OR 3050 (OR 116) C338006 5 3.5 0410.121 spring 0410121 2 3.6 5302.102 rubber 5302102 5 3.7 5801.103 gasket 5801103 4				0,5 m
2.16 Spring 0410335 1 2.17 6109.102 seal 6109102 1 2.18 6602.103+6602.110 - assembled 6602103 1 2.19 6604.100 washer 6604100 1 3.1 GAS HEAD COSTER 3103/R01 1 3.1 Key tool for 5801 C160032 1 3.2 Gasket DI- 025 C326003 5 3.3 Vulkollan gasket OR- 112 C338001 5 3.4 Vulkollan gasket OR 3050 (OR 116) C338006 5 3.5 0410.121 spring 0410121 2 3.6 5302.102 rubber 5302102 5 3.7 5801.103 gasket 5801103 4				
2.17 6109.102 seal 6109102 1 2.18 6602.103+6602.110 - assembled 6602103 1 2.19 6604.100 washer 6604100 1 3 1" GAS HEAD COSTER 3103/R01 1 3.1 Key tool for 5801 C160032 1 3.2 Gasket DI- 025 C326003 5 3.3 Vulkollan gasket OR- 112 C338001 5 3.4 Vulkollan gasket OR 3050 (OR 116) C338006 5 3.5 0410.121 spring 0410121 2 3.6 5302.102 rubber 5302102 5 3.7 5801.103 gasket 5801103 4				
2.18 6602.103+6602.110 - assembled 6602103 1 2.19 6604.100 washer 6604100 1 3 1" GAS HEAD COSTER 3103/R01 1 3.1 Key tool for 5801 C160032 1 3.2 Gasket DI- 025 C326003 5 3.3 Vulkollan gasket OR- 112 C338001 5 3.4 Vulkollan gasket OR 3050 (OR 116) C338006 5 3.5 0410.121 spring 0410121 2 3.6 5302.102 rubber 5302102 5 3.7 5801.103 gasket 5801103 4				
2.19 6604.100 washer 6604100 1 3 1" GAS HEAD COSTER 3103/R01 1 3.1 Key tool for 5801 C160032 1 3.2 Gasket DI- 025 C326003 5 3.3 Vulkollan gasket OR- 112 C338001 5 3.4 Vulkollan gasket OR 3050 (OR 116) C338006 5 3.5 0410.121 spring 0410121 2 3.6 5302.102 rubber 5302102 5 3.7 5801.103 gasket 5801103 4				
3 1" GAS HEAD COSTER 3.1 Key tool for 5801 C160032 1 3.2 Gasket DI- 025 C326003 5 3.3 Vulkollan gasket OR- 112 C338001 5 3.4 Vulkollan gasket OR 3050 (OR 116) C338006 5 3.5 0410.121 spring 0410121 2 3.6 5302.102 rubber 5302102 5 3.7 5801.103 gasket 5801103 4				
3.1 Key tool for 5801 C160032 1 3.2 Gasket DI- 025 C326003 5 3.3 Vulkollan gasket OR- 112 C338001 5 3.4 Vulkollan gasket OR 3050 (OR 116) C338006 5 3.5 0410.121 spring 0410121 2 3.6 5302.102 rubber 5302102 5 3.7 5801.103 gasket 5801103 4	2.19	6604.100 washer	6604100	1
3.1 Key tool for 5801 C160032 1 3.2 Gasket DI- 025 C326003 5 3.3 Vulkollan gasket OR- 112 C338001 5 3.4 Vulkollan gasket OR 3050 (OR 116) C338006 5 3.5 0410.121 spring 0410121 2 3.6 5302.102 rubber 5302102 5 3.7 5801.103 gasket 5801103 4	3	1" GAS HEAD COSTER	3103/R01	1
3.2 Gasket DI- 025 C326003 5 3.3 Vulkollan gasket OR- 112 C338001 5 3.4 Vulkollan gasket OR 3050 (OR 116) C338006 5 3.5 0410.121 spring 0410121 2 3.6 5302.102 rubber 5302102 5 3.7 5801.103 gasket 5801103 4	3.1	Key tool for 5801	C160032	1
3.3 Vulkollan gasket OR- 112 C338001 5 3.4 Vulkollan gasket OR 3050 (OR 116) C338006 5 3.5 0410.121 spring 0410121 2 3.6 5302.102 rubber 5302102 5 3.7 5801.103 gasket 5801103 4			· · · · · · · · · · · · · · · · · · ·	5
3.4 Vulkollan gasket OR 3050 (OR 116) C338006 5 3.5 0410.121 spring 0410121 2 3.6 5302.102 rubber 5302102 5 3.7 5801.103 gasket 5801103 4	3.3	Vulkollan gasket OR- 112		5
3.5 0410.121 spring 0410121 2 3.6 5302.102 rubber 5302102 5 3.7 5801.103 gasket 5801103 4		انور ا <u>دون در دون دو تا این دون دون دون دون دون دون دون دون دون دو</u>		5
3.6 5302.102 rubber 5302102 5 3.7 5801.103 gasket 5801103 4		· · · · · · · · · · · · · · · · · · ·	0410121	2
			5302102	5
3.8 6604.100 washer 6604100 1	3.7	5801.103 gasket	5801103	4
	3.8	6604.100 washer	6604100	1

	CONTRACT 97/079 - PROJECT MP/SYR/97/016		
POS.	DESCRIPTION	CODE	QTY
4	6-AVG FRAME	6-AVG/R01	1
	Seeger ring E D. 12	C035014	1
	Seeger ring E D. 30	C035028	2
	Seeger ring 1 D. 32	C035071	1
	Chain P. 9,53 link	C110005	2
	Chain P. 9,53 link	C110010	2
	Tool box	C160200	1
	Fixed wrench MM36 - 850/G.	C160203	1
4.8	Belt for 1 HP varydrive motor	C184010	1
	Selflocking nut N 10 MA	C252021	1
	Gasket DE- 118	C322014	1
	Gasket DE- 325	C322037	1
	Gasket DI- 050	C326007	1
4.13	Gasket OR- 3043	C335095	1
4.14	Gasket OR- 6287	C335208	1
	Stepseal S 55013-0120-A46	C351015	2
	RT PTFE-dodge DA 3/8"	C355003	2
	Pirex cup for L12/4	C392014	1
	Pipe fitting S01 D. 6	C510014	10
	Pipe fitting SO- 1 D. 8	C510015	10
	Brass pipe SO- 1 D. 10	C510016	10
	Brass pipe SO- 1 D. 12	C510017	10
	Brass pipe SO- 3 D. 10X8	C510025	10
	Brass pipe SO- 3 D. 12X10	C510026	10
	Brass pipe SO- 20 D. 12X1/2	C510039	5
	Brass pipe SO- 1100 D. 12X1/2	C510145	5
	Gasket kit RO 7	C541020	1
4.27	1/8 bronze muffler	C615003	3
4.28	S4/N 1/4" nylon muffler	C615006	3
4.29	S8/N 1/8" muffler	C615007	3
4.30	Rilsan pipe-8X6-black	C670006	5 m
4.31	Rilsan pipe D. 12 X 10 - MB 12	C670054	5 m
	Rilsan pipe D. 10 X 8 - MB 10	C670060	5 m
4.33	Bearing	C690024	1
4.34	CS8 valve	C701016	1
4.35	UKA8/25 pneumatic valve	C701032	1
4.36	UKC8/25 pneumatic valve	C701042	1
4.37	Shuttle valve	C702002	1
	Valve DCST/2C B.green	C702003	1
	PCT/3C valve red	C702005	1
	191/1090 membrane for 32.30	C702106	6
	191/551070 membrane for 32.30	C702107	6
	Air lubr. oil 3 It tank	C760043	1
	Overload GV2-M07 1,6/2,5A	E367025	1
	0410.158 spring	0410158	1

	CONTRACT 97/079 - PROJECT MP/SYR/97/016		
POS.	DESCRIPTION	CODE	QTY
5	Approach cyl. 6618	6618/H01	1
5.1	Seeger ring 1 D. 34	C035073	1
5.2	Gasket DE- 175	C322023	2
5.3	Gasket DE- 212	C322028	2
5.4	S8/N 1/8" muffler	C615007	1
5.5	191/1090 membrane for 32.30	C702106	2
5.6	191/551070 membrane for 32.30	C702107	2
5.7	4102.141 washer	4102141	1
6	ELECTRIC BATH	VSA-35/R01	1
6.1	Gasket OR- 128	C335011	2
6.2	Resistance A3/N 220/380V 3000 W	E700001	1



CONTRACT 97/079 - PROJECT N° MP/SYR/97/016

between UNIDO / Vienna and SICPLANT INTERNATIONAL / Varese

The BUYER

The CONTRACTOR

UNIDO / Vienna - Austria United Nations Industrial Development Organization SICPLANT INTERNATIONAL / Varese - Italy

The COUNTERPART

CARESSE COSMETICS CO. Aleppo / Syria

ACCEPTANCE CERTIFICATE

From $\frac{OR/10}{99}$ to $\frac{O9}{10}\frac{10}{99}$ the machines and the equipment delivered in accordance with contractual requirement have been tested.

Positive results of production in terms of quantity and quality have been achieved with satisfaction of both Parties.

The guaranty period, 12 months, starts from $\frac{09 \cancel{10} \cancel{99}}{\cancel{10}}$.

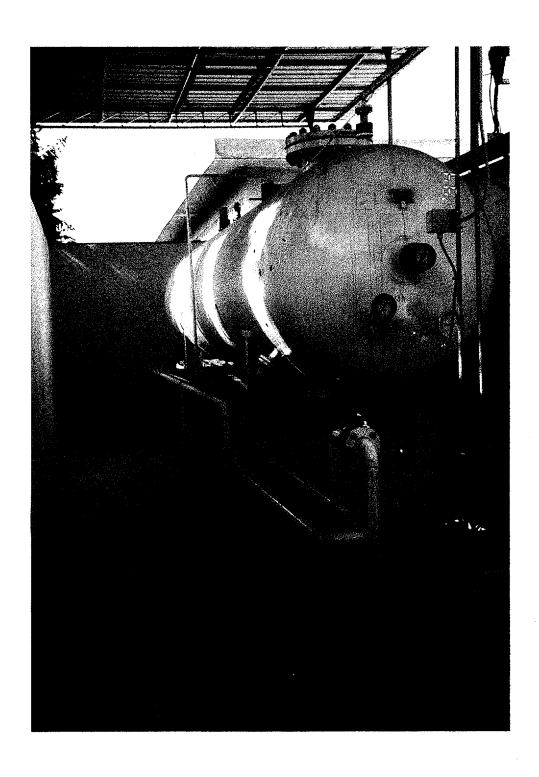
Today 09/10/99 SICPLANT INTERNATIONAL has fulfilled all of what Contract provides and has handed the plant over the Counterpart in Aleppo / Syria.

The COUNTERPART

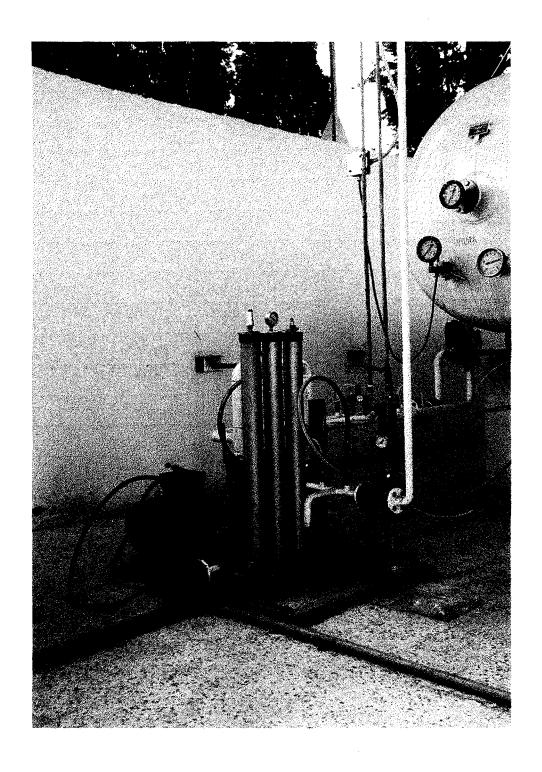
CARESSE COSMETICS CO.

The CONTRACTOR

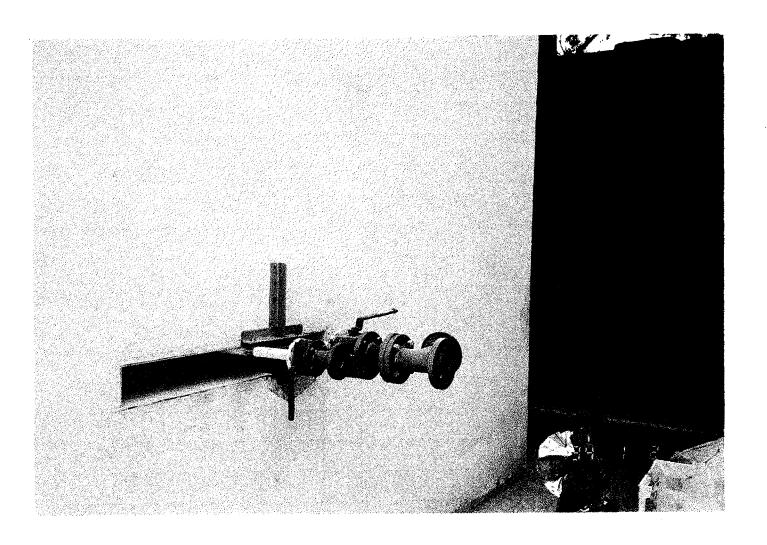
SICPLANT INTERNATIONAL CO.



1 - LPG TANK WITH PUMPS RACK



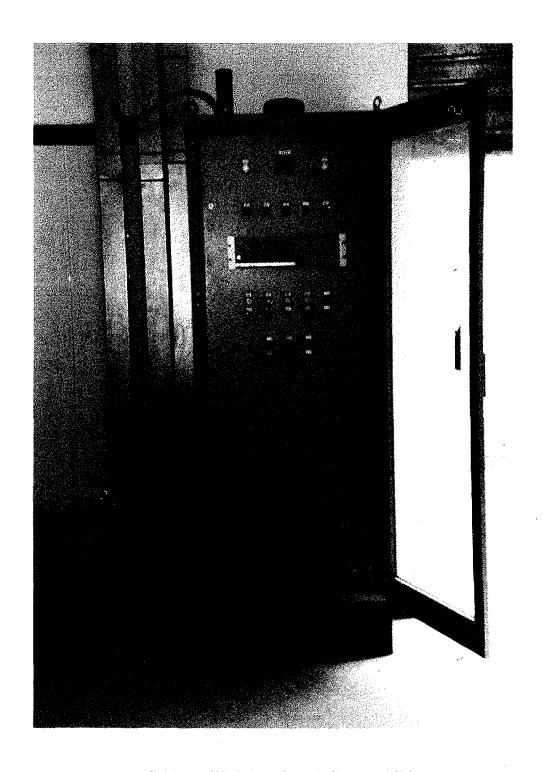
2 - PUMPS RACK WITH LPG PURIFICATION SYSTEM



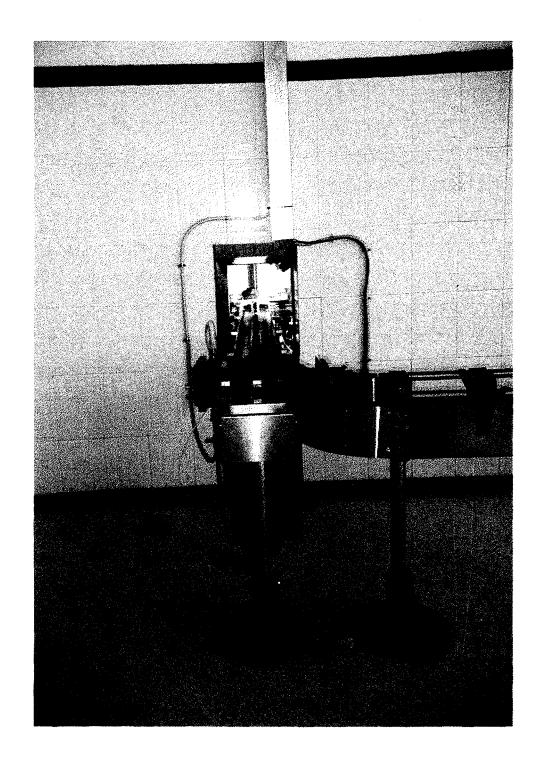
3 - LPG LOADING GROUP



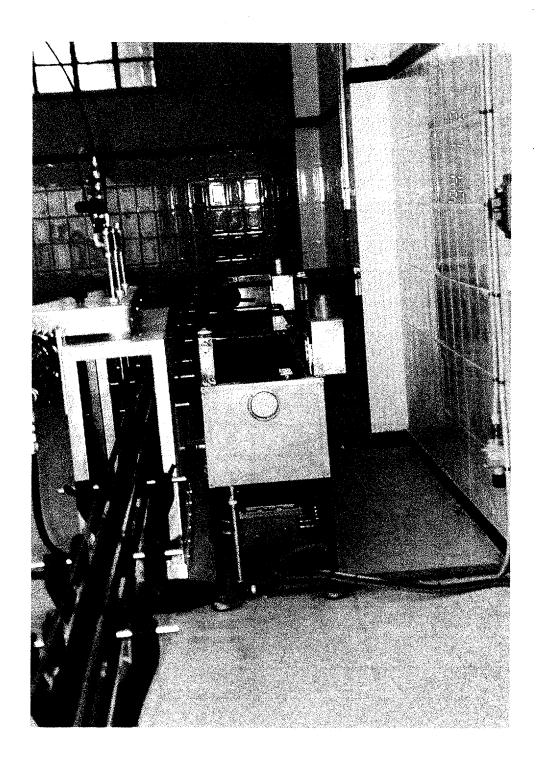
4 - GAS HOUSE



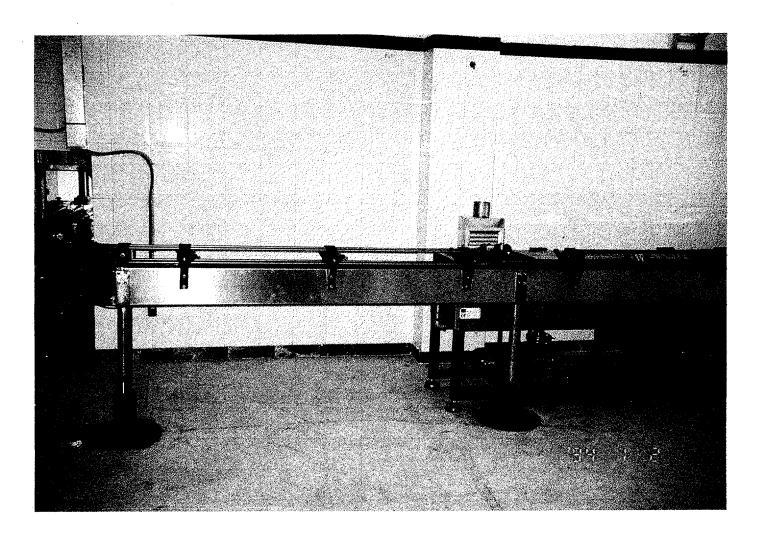
5 - SAFETY ELECTRIC BOARD



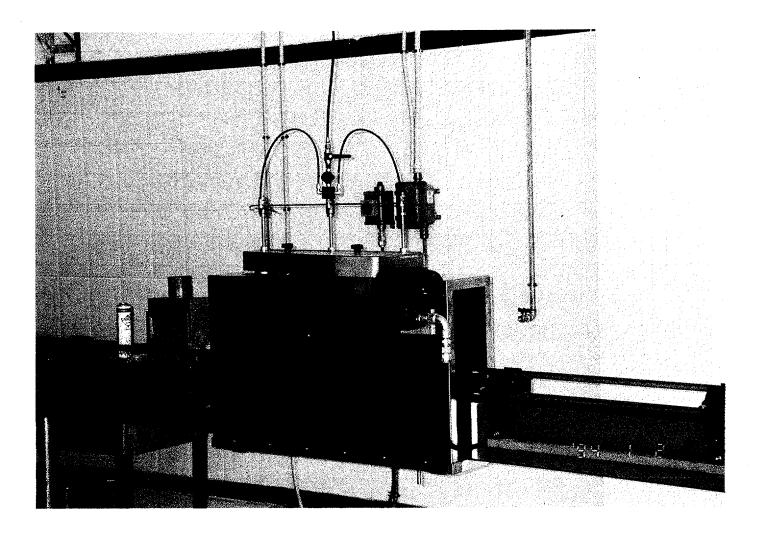
6 - CONVEYOR FROM FILLING MACHINE



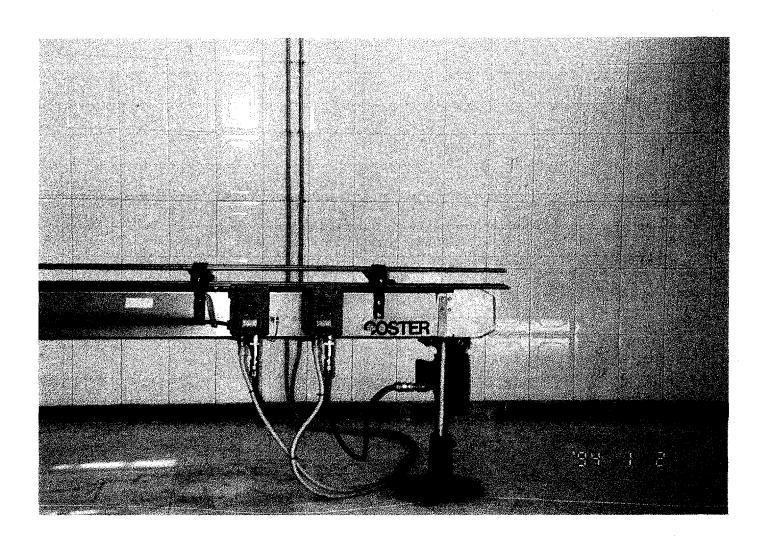
7 - CONVEYOR SYSTEM WITH WATER BATH AND DRYER



8 - CONVEYOR WITH WATER BATH



9 - DRYER



10 - CONVEYOR END



sicplant international s.r.l.