



Termomeccanica Industrial Process

Termomeccanica Group



# *References List*

November 2018

# Distillation

Client	Location	Plants & Technology	Sector
<b>Qiqihar Textile</b>	Qiqihar.China	DMF distillation 2.000 kg/h	Chemical & Textile
<b>Mabel Textile</b>	Prato-Italy	DMF distillation 2.000 kg/h	Chemical & Textile
<b>Adesin - Laminate</b>	Pistoia-Italy	Acetone distillation 1.500 kg/h	Chemical & Petrolchemicals
<b>Nanfang Textile</b>	China	DMF distillation 4.000 kg/h	Chemical & Textile
<b>SITE Textile</b>	Turkey	DMF distillation 3.000 kg/h	Chemical & Textile
<b>Flokser Textile</b>	Instanbul-Turkey	DMF distillation 3.000 kg/h	Chemical & Textile
<b>DEPAR Textile</b>	Instanbul-Turkey	DMF distillation 3.000 kg/h	Chemical & Textile
<b>ATS Textile</b>	Lahore-Pakistan	DMF distillation 6.000 kg/h	Chemical & Textile
<b>Huaibei Textile</b>	Huaibei-China	DMF distillation 6.000 kg/h	Chemical & Textile



# Distillation

Client	Location	Plants & Technology	Sector
<b>Ruansa Textile</b>	Maracay-Venezuela	DMF distillation 3.000 kg/h	Chemical & Textile
<b>Marcucci Pharmaceutic</b>	S.Antimo-Italy	Ethanol distillation 3.000 kg/h	Pharmaceutical
<b>S.Stefano Textile</b>	Prato-Italy	Ammonia distillation 1.000 kg/h	Chemical
<b>Teheran Delta Textile</b>	Teheran-Iran	DMF distillation 3.000 kg/h	Chemical & Textile
<b>Flokser Textile</b>	Instanbul-Turkey	DMF distillation 6.000 kg/h	Chemical & Textile
<b>Zakaria Pharmaceutic</b>	Tabriz-Iran	Methylene Chloride distillation 1.500 kg/h	Pharmaceutical
<b>Zakaria Pharmaceutic</b>	Tabriz-Iran	IPA distillation 1.500 kg/h	Pharmaceutical
<b>Rezitan Resin</b>	Teheran-Iran	Fatty acids hydrolysis and distillation 3.000 kg/h	Chemical



# Distillation

<b>Client</b>	<b>Location</b>	<b>Plants &amp; Technology</b>	<b>Sector</b>
<b>SILVA Extract Food</b>	Rende-Italy	IPA distillation 1.500 kg/h	Chemical & Food and Beverages
<b>KRKA Pharmaceutic</b>	Krka-Slovenja	3 Batches distillation	Pharmaceutical
<b>MEDICA SpA</b>	Iglesias-Italy	NMP Distillation 1.500 kg/h	Bio-Medical



# Thermal Oxidizers

Client	Location	Plants & Technology	Sector
<b>SIMS Pharmaceutic Ind.</b>	Incisa-Italy	Afterburner with heat recovery boiler 10 t/h steam 12 bar	Pharmaceutical
<b>DECOINDUSTRIA</b>	Cascina-Italy	Liquid and gas incinerator complete of energy recovery (steam production) 500 kg/h + 10.000 Nm <sup>3</sup> /h	Water Treatment
<b>CIAF Refuse Treatment</b>	Atessa-Italy	Afterburner with heat recovery boiler 10 t/h steam 12 bar	Water Treatment
<b>POLYNT</b>	S.Giovanni Valdarno-Italy	Liquid and gas incinerator complete of energy recovery (steam production) 2.000 kg/h + 10.000 Nm <sup>3</sup> /h	Chemical
<b>GSA Refuse Treatment</b>	Civita Castellana-Italy	Afterburner with heat recovery boiler 10 t/h steam 12 bar	Water Treatment
<b>MAS Laminates</b>	Pistoia-Italy	Afterburner 25.000 Nm <sup>3</sup> /h	Chemical & Petrolchemicals
<b>MAS Laminates</b>	Pistoia-Italy	Afterburner 12.000 Nm <sup>3</sup> /h	Chemical & Petrolchemicals



# Thermal Oxidizers

Client	Location	Plants & Technology	Sector
<b>VAL</b>	Lucca-Italy	Air treatment 10.000 Nm <sup>3</sup> /h from resins production	Glass Factory
<b>KME Copper refining</b>	Lucca-Italy	Afterburner 15.000 Nm <sup>3</sup> /h Dry Abatement	Metallurgical
<b>LFL Copper refining</b>	Masiers de Voltregà- Spain	Afterburner 15.000 Nm <sup>3</sup> /h Dry Abatement	Metallurgical
<b>LFL Copper refining</b>	Masiers de Voltregà- Spain	Afterburner 15.000 Nm <sup>3</sup> /h Dry Abatement	Metallurgical
<b>KME Copper refining</b>	Lucca-Italy	Afterburner –quench Dry Abatement-Washing tower 30.000 Nm <sup>3</sup> /h	Metallurgical
<b>TAI</b>	Ankara- Turkey	SO <sub>2</sub> treatment by dry abatement from n°4 coal boiler 36.000 kg/h	Aeromotive



# Thermal Oxidizers

Client	Location	Plants & Technology	Sector
<b>Solvay Bario e Derivati</b>	Massa-Italy	Flue Gas Desulfurization Plant 10.000 Nm <sup>3</sup> /h – ceramic filtering unit, heat recovery with steam production and dry abatement with sodium bicarbonate	Chemical & Petrolchemicals
<b>GILROD</b>	Iran	Thermal Oxidizer with Flue Gas Treatment (Quencher, Bag Filter, Lime & Carbon Dosing System)	Metallurgical – Copper Foundry
<b>Gida SpA</b>	Prato-Italy	Post-Combustion Chamber with Flue Gas Treatment Revamping	Water Treatment



# Regenerative & Recuperative Thermal Oxidizers

CLIENT	COUNTRY	TYPE	CAPACITY
<b>ONDULINE</b>	ITALY	RTO	15.000 Nm <sup>3</sup> /h
<b>MAS ITALIA</b>	ITALY	Recuperative Thermal Oxidizer + Heat Recovery	30.000 Nm <sup>3</sup> /h
<b>MATEX</b>	ITALY	RTO	10.000 Nm <sup>3</sup> /h
<b>PROSETEX</b>	ITALY	RTO	40.000 Nm <sup>3</sup> /h
<b>VAL</b>	ITALY	Recuperative Thermal Oxidizer + Wet Scrubber	10.000 Nm <sup>3</sup> /h
<b>LAPE</b>	ITALY	RTO	10.000 Nm <sup>3</sup> /h
<b>ITALCOL</b>	ITALY	RTO + Wet Scrubber	65.000 Nm <sup>3</sup> /h
<b>STAMPFOIL</b>	ITALY	RTO + Heat Recovery	60.000 Nm <sup>3</sup> /h
<b>NAR</b>	ITALY	RTO	5.000 Nm <sup>3</sup> /h
<b>LDS</b>	ITALY	RTO	10.000 Nm <sup>3</sup> /h
<b>EUROFARM</b>	ITALY	RTO	10.000 Nm <sup>3</sup> /h
<b>COLATA CONTINUA PISANA</b>	ITALY	RTO	5.000 Nm <sup>3</sup> /h
<b>LABORATORI GUIDOTTI</b>	ITALY	RTO + Flue Gases Dry and Wet Treatment	5.000 Nm <sup>3</sup> /h





# Regenerative & Recuperative Thermal Oxidizers

CLIENT	COUNTRY	TYPE	CAPACITY
<b>METALPLASTIC</b>	ITALY	Recuperative Thermal Oxidizer + Heat Recovery	30.000 Nm <sup>3</sup> /h
<b>I.C.R.</b>	ITALY	RTO	10.000 Nm <sup>3</sup> /h
<b>DELTA PREG</b>	ITALY	RTO	10.000 Nm <sup>3</sup> /h
<b>VINYLPEX</b>	POLAND	RTO	30.000 Nm <sup>3</sup> /h
<b>KRKA</b>	SLOVENJA	RTO	10.000 Nm <sup>3</sup> /h
<b>PARATO</b>	ITALY	RTO	15.000 Nm <sup>3</sup> /h
<b>POLVERIND</b>	ITALY	RTO	6.000 Nm <sup>3</sup> /h
<b>ESBELT</b>	SPAIN	RTO	10.000 Nm <sup>3</sup> /h
<b>SISA</b>	ITALY	RTO	40.000 Nm <sup>3</sup> /h
<b>RADICI TESSUTI</b>	ITALY	RTO	10.000 Nm <sup>3</sup> /h
<b>MECC. ALTE</b>	ITALY	RTO + Heat Recovery	4.000 Nm <sup>3</sup> /h
<b>ENDUTEX</b>	PORTUGAL	RTO	40.000 Nm <sup>3</sup> /h
<b>SRF</b>	INDIA	RTO + Heat Recovery	30.000 Nm <sup>3</sup> /h
<b>ISOTEX</b>	BELARUS	RTO + Heat Recovery	10.000 Nm <sup>3</sup> /h
<b>SALVAMED</b>	BULGARIA	RTO + Heat Recovery	20.000 Nm <sup>3</sup> /h
<b>HARDT TRADING</b>	TURKEY	RTO + Heat Recovery	25.000 Nm <sup>3</sup> /h
<b>MAGIS</b>	ITALY	RTO	30.000 Nm <sup>3</sup> /h
<b>IBNE SINA</b>	IRAN	RTO	75.000 Nm <sup>3</sup> /h
<b>TECHNIP</b>	CZECH REP.	RTO	10.000 Nm <sup>3</sup> /h
<b>TECNIMONT</b>	AZERBAIJAN	RTO	5.000 Nm <sup>3</sup> /h



# Catalytic Thermal Oxidizers

Client	Location	Capacity	Information
<b>STAMPFOIL</b>	ITALY	30.000 Nm <sup>3</sup> /h	Air treatment from film metilization
<b>SALVADORI</b>	ITALY	5.000 Nm <sup>3</sup> /h	Air treatment from resins coatings
<b>ITALCOAT</b>	ITALY	30.000 Nm <sup>3</sup> /h	Air treatment from film metilization
<b>HABASIT</b>	ITALY	10.000 Nm <sup>3</sup> /h	Air treatment from resins coatings
<b>SALVAMED</b>	ITALY	5.000 Nm <sup>3</sup> /h	Air treatment from resins coatings



# Solvent recovery plants by activated carbon for Adhesive, Packaging

CLIENT	COUNTRY	CAPACITY AIR FLOWRATE (Nm <sup>3</sup> /h)	SOLVENT FLOWRATE (kg/h)
<b>INTERPLASTICA</b>	BULGARIA	30.000	200
<b>CARTONGRAF</b>	ITALY	9.000	50
<b>INTERPLASTICA</b>	ROMANIA	30.000	200
<b>PLASTUROPA</b>	ITALY	60.000	700
<b>SYROM 90</b>	ITALY	200.000	1.800
<b>LAMA</b>	ITALY	10.000	60
<b>PORTA IMBALLAGGI INDUSTRIALI</b>	ITALY	80.000	600
<b>LANTZIS</b>	GREECE	20.000	100
<b>INDUSTAPE</b>	MOROCCO	40.000	650
<b>INDUSTAPE</b>	MOROCCO	10.000	60
<b>LINEA NASTRI</b>	ITALY	8.000	75
<b>CARTONGRAF</b>	ITALY	120.000	1.500
<b>ALPHA BETA ( 1st plant )</b>	TAIWAN	75.000	1.000
<b>ALPHA BETA ( 2nd plant )</b>	TAIWAN	75.000	1.000
<b>ROTOPACK (REVAMPING)</b>	ITALY	110.000	800
<b>BOSTON TAPES</b>	ITALY	90.000	1.100



# Solvent recovery plants by activated carbon for Adhesive, Packaging

CLIENT	COUNTRY	CAPACITY AIR FLOWRATE (Nm <sup>3</sup> /h)	SOLVENT FLOWRATE (kg/h)
<b>BOSTON TAPES</b>	ITALY	90.000	1.100
<b>LOUIS ADHESIVE TAPES</b>	THAILAND	75.000	800
<b>ALPHA BETA ( 3th plant )</b>	TAIWAN	95.000	1.300
<b>MAGIS</b>	ITALY	12.000	80
<b>ELBA</b>	TURKEY	50.000	450
<b>LOUIS ADHESIVE TAPES</b>	THAILAND	110.000	1.100
<b>PITAMAS</b>	INDONESIA	9.000	130
<b>ALPHA BETA ( 4th plant )</b>	TAIWAN	120.000	1.600
<b>ELBA</b>	TURKEY	120.000	650
<b>ALPHA BETA ( 5th plant )</b>	TAIWAN	120.000	1.600
<b>SPIRIT INNOTECH</b>	TAIWAN	120.000	1.600
<b>PLYMOUTH</b>	CHINA	180.000	2.000
<b>HEBEI HUAXIA</b>	CHINA	250.000	2.200
<b>ACHEM</b>	TAIWAN	140.000	1.500
<b>LOUIS ADHESIVE TAPES (2nd plant)</b>	THAILAND	110.000	1.100



# Solvent recovery plants by activated carbon for Adhesive, Packaging

<b>CLIENT</b>	<b>COUNTRY</b>	<b>CAPACITY AIR FLOWRATE (Nm<sup>3</sup>/h)</b>	<b>SOLVENT FLOWRATE (kg/h)</b>
<b>DURABA</b>	TURKEY	100.000	1.000
<b>JINGHUA XINKEJI LTD.</b>	CHINA	250.000	2.000
<b>YONGGUAN TECHONOLOGY DEVELPMENT CO. LTD.</b>	CHINA	250.000	1.200
<b>VEGE</b>	TURKEY	120.000	1.200
<b>YONGGUAN ADHESIVE PRODUCT CORP. LTD.</b>	CHINA	30.000	150
<b>YOU FA SHI YE CO. LTD.</b>	CHINA	120.000	1.500



# Production

Client	Location	Plants & Technology
<b>Isola MAS Laminate</b>	Pistoia-Italy	Brominated Resin Plant 8.000 t/y
<b>Sumisola Laminate</b>	Santa Rosa-Philippines	Brominated Resin Plant 8.000 t/y
<b>Isola MAS Laminate</b>	Cambernauld-Scotland	Brominated Resin Plant 8.000 t/y
<b>Isola MAS Laminate</b>	Pendleton-USA	Brominated Resin Plant 8.000 t/y
<b>POLYNT</b>	San Giovanni Valdarno-Italy	PE Unsaturated Resin Plant 12.000 t/y
<b>POLYNT</b>	San Giovanni Valdarno-Italy	PE Unsaturated Resin Plant 12.000 t/y
<b>DR. RESIN</b>	Massa-Italy	Alchidyc Resin Plant 6.000 t/y
<b>ELBA</b>	Turkey	Resin production plant 3.500 l/shift
<b>MUROLL</b>	Austria	Adhesive Production Plant
<b>NITTO</b>	Turkey	Adhesive Production Plant
<b>MYP</b>	Belgium	Particle Board Glue Production Plant



# Production

Client	Location	Plants & Technology
<b>IDEA ALCHEMICA</b>	Castelfranco di Sotto - Pisa	Production plant for sodium sulfosuccinate and vegetable sulphites
<b>DERMACOLOR</b>	Castelfranco di Sotto - Pisa	Esterification reactor
<b>CODYECO</b>	Santa Croce sull'Arno - Pisa	Biopolymer production prototype plant
<b>ICHEMCO</b>	Italia	Reactor
<b>TRUSTIN TAPE</b>	New Delhi - India	Adhesive production plant
<b>YONGGUAN ADHESIVE PRODUCT CORP. LTD.</b>	CHINA	Adhesive production plant
<b>JINGHUA XINKEJI LTD.</b>	CHINA	Adhesive production plant
<b>VEGE</b>	Turkey	Adhesive Production Plant



# Pyrolysis plants

<b>Client</b>	<b>Location</b>	<b>Plants &amp; Technology</b>
<b>Metalrecuperi</b>	San Martino dell'Argine-Italy	Pyrolysis of plastic materials 1.000 kg/h
<b>SICARB</b>	Priolo-Italy	Pyrolysis of nut shells 1.000 kg/h
<b>SERSA</b>	Argentina	Pyrolysis of Biomass with Heat Recovery Boiler and Flue Gas Treatment





# Flue Gas Treatment

Client	Location	Description	Capacity	Sector
<b>LA FARGA LA CAMBRA</b>	SPAIN	Washing for HCl SO <sub>2</sub> abatement	30.000 Nm <sup>3</sup> /h	Metallurgical
<b>ALMA PETROLI</b>	ITALY	Washing for H <sub>2</sub> S abatement	1.000 Nm <sup>3</sup> /h	Oil & Gas
<b>KME</b>	ITALY	Washing for HCl and SO <sub>2</sub> abatement	20.000 Nm <sup>3</sup> /h	Metallurgical
<b>ASMIU</b>	ITALY	Washing for H <sub>2</sub> S compounds abatement	250.000 Nm <sup>3</sup> /h	Waste Treatment
<b>CHIMET</b>	ITALY	Washing for NH <sub>3</sub> , H <sub>2</sub> S and HCl abatement	30.000 Nm <sup>3</sup> /h	Precious Metal Production
<b>EUROMA</b>	ITALY	Washing for DMF recovery	30.000 Nm <sup>3</sup> /h	Chemical & Textile
<b>MTS</b>	ITALY	Washing for DMF recovery	20.000 Nm <sup>3</sup> /h	Chemical & Textile
<b>SINTPEL</b>	ITALY	Washing for DMF recovery	20.000 Nm <sup>3</sup> /h	Chemical & Textile
<b>BBS</b>	ITALY	Washing for DMF recovery	40.000 Nm <sup>3</sup> /h	Chemical & Textile



# Flue Gas Treatment

Client	Location	Description	Capacity	Sector
<b>GIARDINI</b>	ITALY	Washing for DMF recovery	30.000 Nm <sup>3</sup> /h	Chemical & Textile
<b>GIARDINI</b>	ITALY	Washing for DMF recovery	30.000 Nm <sup>3</sup> /h	Chemical & Textile
<b>MARIANA TESSUTI</b>	ITALY	Washing for DMF recovery	20.000 Nm <sup>3</sup> /h	Chemical & Textile
<b>ALFATEX</b>	ITALY	Washing for DMF recovery	20.000 Nm <sup>3</sup> /h	Chemical & Textile
<b>DUAL BOX</b>	ITALY	Washing for DMF recovery	20.000 Nm <sup>3</sup> /h	Chemical & Textile
<b>LE GRIFFE</b>	ITALY	Washing for DMF recovery	20.000 Nm <sup>3</sup> /h	Chemical & Textile
<b>COATEX</b>	ITALY	Washing for DMF recovery	20.000 Nm <sup>3</sup> /h	Chemical & Textile
<b>STAB. BRANDIZZO</b>	ITALY	Washing for DMF recovery	30.000 Nm <sup>3</sup> /h	Chemical & Textile
<b>BIBIELLE</b>	ITALY	Washing for DMF recovery	20.000 Nm <sup>3</sup> /h	Chemical & Textile



# Flue Gas Treatment

Client	Location	Description	Capacity	Sector
<b>FLOKSER</b>	ITALY	Washing for DMF recovery	20.000 Nm <sup>3</sup> /h	Chemical & Textile
<b>DEPAR</b>	TURKEY	Washing for DMF recovery	30.000 Nm <sup>3</sup> /h	Chemical & Textile
<b>SITE</b>	TURKEY	Washing for DMF recovery	24.000 Nm <sup>3</sup> /h	Chemical & Textile
<b>GEZER</b>	TURKEY	Washing for DMF recovery	20.000 Nm <sup>3</sup> /h	Chemical & Textile
<b>ATS</b>	PAKISTAN	Washing for DMF recovery	24.000 Nm <sup>3</sup> /h	Chemical & Textile
<b>PLASTIBERT</b>	BELGIUM	Washing for DMF recovery	40.000 Nm <sup>3</sup> /h	Chemical & Textile
<b>TEHERAN DELTA</b>	IRAN	Washing for DMF recovery	30.000 Nm <sup>3</sup> /h	Chemical & Textile
<b>INDUSTRIAS RUANSA</b>	VENEZUELA	Washing for DMF recovery	30.000 Nm <sup>3</sup> /h	Chemical & Textile
<b>ABD EL FATAH</b>	EGYPT	Washing for DMF recovery	20.000 Nm <sup>3</sup> /h	Chemical & Textile
<b>GUIDOTTI</b>	ITALY	Washing for HCl and SO <sub>2</sub> abatement	5.000 Nm <sup>3</sup> /h	Pharmaceutical



# Flue Gas Treatment

Client	Location	Description	Capacity	Sector
<b>GUIDOTTI</b>	ITALY	Washing for HCl and SO <sub>2</sub> abatement	5.000 Nm <sup>3</sup> /h	Pharmaceutical
<b>LONZA</b>	ITALY	Washing for HCl and SO <sub>2</sub> abatement	10.000 Nm <sup>3</sup> /h	Chemical
<b>GIDA</b>	ITALY	Washing for HCl and SO <sub>2</sub> abatement	20.000 Nm <sup>3</sup> /h	Water Treatment
<b>ORPIC Sohar Refinery</b>	OMAN	Odour Mitigation Project: Activated Carbon Filters for H <sub>2</sub> S, VOCs removal	N°3 x 1.000 Nm <sup>3</sup> /h	Oil & Gas
<b>ORPIC Sohar Refinery</b>	OMAN	Odour Abatement Project: Wet Scrubbers and Activated Carbon Filters for NH <sub>3</sub> , H <sub>2</sub> S, VOCs removal	20.000 Nm <sup>3</sup> /h	Oil & Gas
<b>Black &amp; Veatch Boustead Salcon</b>	INDONESIA	Ammonia Removal System	5 m <sup>3</sup> /h	Power Plant



# Flue Gas Treatment

Client	Location	Description	Capacity	Sector
<b>ASTER</b>	Poland	WTE Flue Gas Treatment (Semi-Dry System with Quencher, Dry Reactor, Bag Filter, Lime and Carbon Dosing System)	59.000 Nm <sup>3</sup> /h	Municipal Waste



*thank you*



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