

Bubble Generator Market by Type (Micro, Fine, Nano), Technology, Function, End-user (Water & Wastewater Treatment, Agriculture & Aquaculture, Food & Beverage, Chemicals, Power Generation, Mining & Mineral Processing), and Region - Global Forecast to 2029

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Report description:

The bubble generators market size is projected to grow from USD 1.3 billion in 2024 to USD 1.8 billion by 2029, registering a CAGR of 6.8% during the forecast period. The key drivers which underpin the bubble generators market therefore relate to other trends currently affecting various industries including water treatment, agriculture, and aquaculture. The first one is the general tendency of expanding demand on the sustainable water treatment and the second one is the growing need in aeration in the fish farms and agriculture. Since companies and corporations are looking for effective ways to increase efficiency of water treatment and water as a resource, little-known technologies such as nano-bubble generators are becoming popular because of their effectiveness in dissolving gasses and nutrients.

"Pressure dissolution is projected to be the largest segment by technology in terms of value."

Pressure dissolution is expected to have largest market share in the bubble generator market for the following reasons. One major stimulus is the increasing need for better gas transfer technology applications in various industries such as water utilities and fish farming where pressures dissolution increases oxygen content and thus the quality of the water. Furthermore, pressure pumping equipment that are enhanced mean that extraction mechanisms in oil & gas acts as an incentive to the use of pressure dissolution techniques in the optimization of resource yields. The increasing attention towards sustainability and environmental standards and laws also contributed more behind this scenario because organizations and industries are in search for ways to reduce costs of chemical and energy consumption.

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"Particle aggregation & removal accounted for the fastest-growing function segment of bubble generator market in terms of value."

Particle aggregation and its removal is identified as one of the most rapidly developing functions of bubble generators because of several reasons. There is growth in demand of bubble generators in various applications where bubbles assist in water treatment processes such as flotation, so as to enable aggregation of particles within fluids for easier separation. This is especially so in industries that require separating let alone in mining industries, wastewater industries and foods industries where separation of solids from liquids is a major key. Also, developments in bubble generation technology, such as in micro and nanobot systems, improve the efficiency of particle aggregation through more stability of the bubbles and through surface area available for particles. An influx in environmental concerns and increased legal mandates to lessen waste also drive the call for better particle elimination technologies.

"North America is the third-largest market for bubble generator."

North America is the third-largest consumer of bubble generators. The US has shown favorable demand for bubble generators, and this is projected to continue in the near future. Bubble generators are broadly accepted in this region due to their superior performance and the growing industrial sectors are also stimulating the growth of the bubble generators market in the region. Moleaer Inc. (US) is one of the major players manufacturing bubble generators and is serving various end-users such as water & wastewater treatment and agriculture & aquaculture.

In-depth interviews were conducted with Chief Executive Officers (CEOs), marketing directors, other innovation and technology directors, and executives from various key organizations operating in the bubble generators market, and information was gathered from secondary research to determine and verify the market size of several segments.

-□By Company Type: Tier 1 - 40%, Tier 2 - 30%, and Tier 3 - 30%

-□By Designation: C Level Executives- 20%, Directors - 10%, and Others - 70%

-□By Region: North America - 20%, Europe - 20%, APAC - 40%, South America- 10% , and the Middle East & Africa -10%

The bubble generators market comprises major players such as Acniti LLC (Japan), Moleaer Inc. (US), Shandong Sundon Technology Co., Ltd. (China), Pacific Water Technology (Australia), Agrona B.V. (Netherlands), Fine Bubble Technologies (South Africa), Shanghai Mutao Environmental Technology Co., Ltd. (China), All-Pumps Pty Ltd (Australia), NanoKriti (India), and NEWMANTECH Co. Ltd. (South Korea). The study includes in-depth competitive analysis of these key players in the bubble generators market, with their company profiles, recent developments, and key market strategies.

Research Coverage

This report segments the market for bubble generators on the basis of type, technology, function, end-user, and region, and provides estimations for the overall value of the market across various regions. A detailed analysis of key industry players has been conducted to provide insights into their business overviews, products & services, key strategies, mergers & acquisitions and investment & expansions associated with the bubble generators market.

Key benefits of buying this report

This research report is focused on various levels of analysis - industry analysis (industry trends), market ranking analysis of top players, and company profiles, which together provide an overall view on the competitive landscape; emerging and high-growth segments of the bubble generators market; high-growth regions; and market drivers, restraints, opportunities, and challenges. The report provides insights on the following pointers:

-□Market Penetration: Comprehensive information on the bubble generators market offered by top players in the global bubble generators market.

-□Analysis of drivers: (increased demand for bubble generators in various end-use sectors), restraints (high initial costs and time, competition from traditional aeration methods), opportunities (expanding applications across various sectors, including

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pharmaceuticals and food processing), and challenges (need for continuous innovation, potential impact of economic fluctuations) influencing the growth of bubble generators market.

-□Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product launches in the bubble generators market.

-□Market Development: Comprehensive information about lucrative emerging markets - the report analyzes the markets for bubble generators market across regions.

-□Market Capacity: Production capacities of companies producing bubble generators are provided wherever available with upcoming capacities for the bubble generators market.

-□Competitive Assessment: In-depth assessment of market shares, strategies, products, and manufacturing capabilities of leading players in the bubble generators market.

Table of Contents:

1	INTRODUCTION	21
1.1	STUDY OBJECTIVES	21
1.2	MARKET DEFINITION	21
1.3	STUDY SCOPE	22
1.3.1	MARKETS COVERED	22
1.3.2	INCLUSIONS AND EXCLUSIONS	23
1.3.3	YEARS CONSIDERED	24
1.4	CURRENCY CONSIDERED	24
1.5	STAKEHOLDERS	24
2	RESEARCH METHODOLOGY	25
2.1	RESEARCH DATA	25
2.1.1	SECONDARY DATA	26
2.1.1.1	List of key secondary sources	26
2.1.1.2	Key data from secondary sources	26
2.1.2	PRIMARY DATA	27
2.1.2.1	Key data from primary sources	27
2.1.2.2	Key industry insights	28
2.1.2.3	Breakdown of interviews with experts	28
2.2	MARKET SIZE ESTIMATION	29
2.2.1	BOTTOM-UP APPROACH	29
2.2.2	TOP-DOWN APPROACH	29
2.3	GROWTH FORECAST	30
2.3.1	SUPPLY SIDE	30
2.3.2	DEMAND SIDE	30
2.4	DATA TRIANGULATION	30
2.5	FACTOR ANALYSIS	31
2.6	RESEARCH ASSUMPTIONS	32
2.7	LIMITATIONS	32
2.8	RISK ASSESSMENT	33
3	EXECUTIVE SUMMARY	34
4	PREMIUM INSIGHTS	38
4.1	ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN BUBBLE GENERATOR MARKET	38
4.2	BUBBLE GENERATOR MARKET, BY TYPE	38
4.3	BUBBLE GENERATOR MARKET, BY TECHNOLOGY	39
4.4	BUBBLE GENERATOR MARKET, BY FUNCTION	39

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4.5	BUBBLE GENERATOR MARKET, BY END USER	40
4.6	BUBBLE GENERATOR MARKET, BY KEY COUNTRY	40
5	MARKET OVERVIEW	41
5.1	INTRODUCTION	41
5.2	IMPACT OF AI/GENAI	41
5.3	MARKET DYNAMICS	42
5.3.1	DRIVERS	42
5.3.1.1	Growth of aquaculture industry	42
5.3.1.2	Rising demand for water management solutions	43
5.3.2	RESTRAINTS	43
5.3.2.1	Preference for traditional chemical methods	43
5.3.2.2	Stringent regulatory standards	44
5.3.3	OPPORTUNITIES	45
5.3.3.1	Growing focus on eco-friendly alternatives	45
5.3.3.2	Diverse applications of bubble generators across industries	45
5.3.4	CHALLENGES	46
5.3.4.1	Lack of standardized protocols	46
5.3.4.2	Limited economies of scale for small-scale operations	46
5.4	PORTER'S FIVE FORCES ANALYSIS	47
5.4.1	THREAT OF SUBSTITUTES	47
5.4.2	THREAT OF NEW ENTRANTS	48
5.4.3	BARGAINING POWER OF BUYERS	48
5.4.4	BARGAINING POWER OF SUPPLIERS	48
5.4.5	INTENSITY OF COMPETITIVE RIVALRY	48
5.5	KEY STAKEHOLDERS AND BUYING CRITERIA	49
5.5.1	KEY STAKEHOLDERS IN BUYING PROCESS	49
5.5.2	BUYING CRITERIA	50
5.6	MACROECONOMIC INDICATORS	51
5.6.1	GLOBAL GDP TRENDS	51
5.6.2	MARINE AQUATIC ANIMAL CAPTURE PRODUCTION BY MAJOR PRODUCERS	52
5.7	VALUE CHAIN ANALYSIS	54
5.7.1	RAW MATERIAL SUPPLIERS	54
5.7.2	MANUFACTURERS	54
5.7.3	DISTRIBUTORS	55
5.7.4	END USERS/CONSUMERS	55
5.8	ECOSYSTEM ANALYSIS	55
5.9	CASE STUDY ANALYSIS	56
5.9.1	IMPACT OF NANOBUBBLE TECHNOLOGY ON BOD/COD REDUCTION IN FOOD PROCESSING FACILITIES	56
5.9.2	EFFECT OF NANO AQUA N-50 NANOBUBBLE TECHNOLOGY IN PHOOL KALAN'S COMMUNITY POND	57
5.9.3	APPLICATION OF ARMSTRONG NANOBUBBLE GENERATORS AT WEST MICHIGAN COMPOUNDING	57
5.10	REGULATORY LANDSCAPE	57
5.10.1	ENVIRONMENTAL REGULATIONS	58
5.10.1.1	North America	58
5.10.1.2	Europe	58
5.10.1.3	Others	58
5.10.2	REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	59

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5.11	TECHNOLOGY ANALYSIS	60
5.11.1	KEY TECHNOLOGIES	60
5.11.1.1	Venturi-type bubble generation	60
5.11.1.2	Vortex bubble generation	61
5.11.2	COMPLEMENTARY TECHNOLOGIES	61
5.11.2.1	Technology integration with smart sensors	61
5.11.3	ADJACENT TECHNOLOGIES	61
5.11.3.1	Bubble diffuser	61
5.12	TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS	62
5.13	TRADE ANALYSIS	62
5.13.1	IMPORT SCENARIO (HS CODE 842121)	62
5.13.2	EXPORT SCENARIO (HS CODE 842121)	64
5.14	KEY CONFERENCES AND EVENTS, 2024-2025	64
5.15	PRICING ANALYSIS	65
5.15.1	INDICATIVE PRICING ANALYSIS TREND, BY REGION	65
5.15.2	INDICATIVE PRICING ANALYSIS TREND, BY TYPE	65
5.16	INVESTMENT AND FUNDING SCENARIO	66
5.17	PATENT ANALYSIS	66
5.17.1	METHODOLOGY	66
5.17.2	DOCUMENT TYPES	66
5.17.3	PUBLICATION TRENDS	67
5.17.4	INSIGHTS	67
5.17.5	LEGAL STATUS OF PATENTS	68
5.17.6	JURISDICTION ANALYSIS	68
5.17.7	TOP APPLICANTS	69
6	BUBBLE GENERATOR MARKET, BY TYPE	71
6.1	INTRODUCTION	72
6.2	MICROBUBBLE	73
6.2.1	INTEGRATION INTO WASTEWATER TREATMENT AND AQUACULTURE REFLECTS SHIFT TOWARD MORE SUSTAINABLE PRACTICES	73
6.3	FINE BUBBLE	73
6.3.1	OPTIMIZING RESOURCE USE AND IMPROVING ENVIRONMENTAL OUTCOMES TO DRIVE MARKET	73
6.4	NANOBUBBLE	74
6.4.1	ADVANCEMENTS IN PRESSURIZED DISSOLUTION METHODS AND ULTRASONIC TECHNOLOGY TO BOOST DEMAND	74
6.5	OTHER TYPES	74
7	BUBBLE GENERATOR MARKET, BY TECHNOLOGY	75
7.1	INTRODUCTION	76
7.2	SWIRL FLOW	77
7.2.1	RECENT ADVANCEMENTS IN SWIRL FLOW TECHNOLOGY TO IMPROVE EFFICIENCY AND REDUCE MAINTENANCE COSTS	77
7.3	EJECTOR	78
7.3.1	APPLICATION OF EJECTOR TECHNOLOGY IN GENERATING NANOBUBBLES TO DRIVE MARKET	78
7.4	VENTURI	78
7.4.1	INNOVATIVE TECHNIQUES TO MEASURE FLOW RATES TO YIELD EFFECTIVE SOLUTIONS FOR FLUID VELOCITY CHANGES	78
7.5	PRESSURE DISSOLUTION	79
7.5.1	WIDE USE IN WASTEWATER TREATMENT AND AQUACULTURE TO DRIVE MARKET	79
7.6	ULTRASONIC VIBRATION	79
7.6.1	ADVANCEMENTS IN ULTRASONIC VIBRATION TECHNOLOGY TO BOOST DEMAND	79

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7.7 □ MIXED VAPOR CONDENSATION BY DIRECT CONTACT WITH COOLANT WATER □80

7.7.1 □ EFFICIENCY TO IMPROVE HEAT TRANSFER RATES AND REDUCE THERMAL RESISTANCE IN COOLING SYSTEMS TO BOOST DEMAND □80

7.8 □ NANOPORES □80

7.8.1 □ INCREASING DEMAND IN GENERATING ULTRAFINE BUBBLES WHILE MINIMIZING ENERGY CONSUMPTION TO DRIVE MARKET □80

8 □ BUBBLE GENERATOR MARKET, BY FUNCTION □81

8.1 □ INTRODUCTION □82

8.2 □ FLOTATION □83

8.3 □ OZONATION □84

8.4 □ GAS-LIQUID MIXING □84

8.5 □ PARTICLE AGGREGATION & REMOVAL □85

8.6 □ OTHER FUNCTIONS □85

9 □ BUBBLE GENERATOR MARKET, BY END USER □86

9.1 □ INTRODUCTION □87

9.2 □ WATER & WASTEWATER TREATMENT □89

9.2.1 □ EFFICACY IN ENHANCING ADSORPTION OF CONTAMINANTS ONTO BUBBLE SURFACE TO DRIVE MARKET □89

9.2.2 □ MUNICIPAL WASTEWATER TREATMENT □89

9.2.3 □ INDUSTRIAL WASTEWATER TREATMENT □90

?

9.3 □ AGRICULTURE & AQUACULTURE □90

9.3.1 □ EFFICIENT NUTRIENT DELIVERY AND IMPROVED WATER QUALITY TO BOOST DEMAND □90

9.4 □ FOOD & BEVERAGE □91

9.4.1 □ INCREASING DEMAND FOR ECO-FRIENDLY AND CHEMICAL-FREE SOLUTIONS TO DRIVE MARKET □91

9.4.2 □ FOOD PROCESSING □91

9.4.3 □ BEVERAGE PROCESSING □92

9.5 □ CHEMICALS □92

9.5.1 □ SURGE IN DEMAND FOR HIGH-SHEAR AGITATORS AND UNIQUE POROUS TUBE DESIGNS TO DRIVE MARKET □92

9.6 □ POWER GENERATION □93

9.6.1 □ SIGNIFICANT SHIFT TOWARD INTEGRATING ADVANCED AERATION TECHNIQUES IN POWER PLANTS TO BOOST MARKET □93

9.7 □ MINING & MINERAL PROCESSING □93

9.7.1 □ INNOVATIVE SOLUTIONS TO ENHANCE OPERATIONAL EFFICIENCY □93

9.8 □ OTHER END USERS □94

10 □ BUBBLE GENERATOR MARKET, BY REGION □95

10.1 □ INTRODUCTION □96

10.2 □ NORTH AMERICA □97

10.2.1 □ US □102

10.2.1.1 □ Increase in oil production activities and rising demand for potable drinking water to drive market □102

10.2.2 □ CANADA □104

10.2.2.1 □ Favorable government policies and increasing public and private investments to drive market □104

10.2.3 □ MEXICO □105

10.2.3.1 □ Growth of energy and power sectors to boost market □105

10.3 □ EUROPE □107

10.3.1 □ GERMANY □111

10.3.1.1 □ Advanced R&D and manufacturing to lead market □111

10.3.2 □ FRANCE □113

10.3.2.1 □ High level of labor productivity and presence of established international companies to drive market □113

10.3.3 □ SPAIN □114

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10.3.3.1	EU Directives to shape water treatment industry landscape	114
10.3.4	UK	116
10.3.4.1	Fossil fuel volatility to increase demand for alternative energy solutions	116
10.3.5	ITALY	117
10.3.5.1	Transformation of renewable energy sector to fuel dependency	117
10.3.6	REST OF EUROPE	119
	?	
10.4	ASIA PACIFIC	120
10.4.1	CHINA	125
10.4.1.1	Growing industrialization and urbanization to drive market	125
10.4.2	JAPAN	127
10.4.2.1	Advanced water treatment infrastructure to boost demand for bubble generators	127
10.4.3	INDIA	128
10.4.3.1	Economic strategies and significant investments in bubble generators to drive market	128
10.4.4	SOUTH KOREA	130
10.4.4.1	Strategic focus on specialty foods to boost market	130
10.4.5	MALAYSIA	131
10.4.5.1	Green technology and sustainable water management to boost foreign investment	131
10.4.6	REST OF ASIA PACIFIC	133
10.5	MIDDLE EAST & AFRICA	134
10.5.1	GCC	138
10.5.1.1	Saudi Arabia	140
10.5.1.1.1	Enhancing economic resilience through smart investments to drive market	140
10.5.1.2	UAE	141
10.5.1.2.1	Highest per capita water consumption to boost demand for bubble generators	141
10.5.1.3	Rest of GCC	143
10.5.2	SOUTH AFRICA	144
10.5.2.1	Growth of chemical industry to drive market	144
10.5.3	REST OF MIDDLE EAST & AFRICA	145
10.6	SOUTH AMERICA	147
10.6.1	BRAZIL	151
10.6.1.1	Energy reforms and industrial growth to boost economic growth	151
10.6.2	ARGENTINA	152
10.6.2.1	Hydropower and natural gas power fuel energy demand	152
10.6.3	REST OF SOUTH AMERICA	154
11	COMPETITIVE LANDSCAPE	156
11.1	OVERVIEW	156
11.2	KEY PLAYER STRATEGIES/RIGHT TO WIN	156
11.3	REVENUE ANALYSIS	158
11.4	MARKET SHARE ANALYSIS, 2023	159
11.5	COMPANY VALUATION AND FINANCIAL METRICS	160
11.6	BRAND/PRODUCT COMPARISON	161
	?	
11.7	COMPANY EVALUATION MATRIX: KEY PLAYERS, 2023	162
11.7.1	STARS	162
11.7.2	EMERGING LEADERS	162
11.7.3	PERVASIVE PLAYERS	162

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11.7.4	PARTICIPANTS	162
11.7.5	COMPANY FOOTPRINT: KEY PLAYERS, 2023	164
11.7.5.1	Type footprint	164
11.7.5.2	Technology footprint	165
11.7.5.3	Region footprint	166
11.7.5.4	Function footprint	167
11.7.5.5	End user footprint	168
11.7.5.6	Company footprint	170
11.8	COMPANY EVALUATION MATRIX: STARTUPS/SMES, 2023	171
11.8.1	PROGRESSIVE COMPANIES	171
11.8.2	RESPONSIVE COMPANIES	171
11.8.3	DYNAMIC COMPANIES	171
11.8.4	STARTING BLOCKS	171
11.8.5	COMPETITIVE BENCHMARKING	173
11.8.5.1	Detailed list of key startups/SMEs	173
11.8.5.2	Competitive benchmarking of key startups/SMEs	174
11.9	COMPETITIVE SCENARIO AND TRENDS	176
11.9.1	PRODUCT LAUNCHES	176
11.9.2	DEALS	177
11.9.3	EXPANSIONS	179
12	COMPANY PROFILES	180
12.1	KEY PLAYERS	180
12.1.1	ACNITI LLC	180
12.1.1.1	Business overview	180
12.1.1.2	Products/Solutions/Services offered	180
12.1.1.3	Recent developments	184
12.1.1.3.1	Deals	184
12.1.1.4	MnM view	185
12.1.1.4.1	Key strengths	185
12.1.1.4.2	Strategic choices	185
12.1.1.4.3	Weaknesses and competitive threats	185
	?	
12.1.2	MOLEAER INC.	186
12.1.2.1	Business overview	186
12.1.2.2	Products/Solutions/Services offered	186
12.1.2.3	Recent developments	189
12.1.2.3.1	Product launches	189
12.1.2.3.2	Deals	189
12.1.2.4	MnM view	191
12.1.2.4.1	Key strengths	191
12.1.2.4.2	Strategic choices	192
12.1.2.4.3	Weaknesses and competitive threats	192
12.1.3	SHANDONG SUNDON TECHNOLOGY CO., LTD.	193
12.1.3.1	Business overview	193
12.1.3.2	Products/Solutions/Services offered	193
12.1.3.3	Recent developments	194
12.1.3.3.1	Product launches	194

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12.1.3.4	MnM view	194
12.1.3.4.1	Key strengths	194
12.1.3.4.2	Strategic choices	194
12.1.3.4.3	Weaknesses and competitive threats	195
12.1.4	PACIFIC WATER TECHNOLOGY	196
12.1.4.1	Business overview	196
12.1.4.2	Products/Solutions/Services offered	196
12.1.4.3	MnM view	197
12.1.4.3.1	Key strengths	197
12.1.4.3.2	Strategic choices	197
12.1.4.3.3	Weaknesses and competitive threats	197
12.1.5	AGRONA B.V.	198
12.1.5.1	Business overview	198
12.1.5.2	Products/Solutions/Services offered	198
12.1.5.3	MnM view	199
12.1.5.3.1	Key strengths	199
12.1.5.3.2	Strategic choices	199
12.1.5.3.3	Weaknesses and competitive threats	199
12.1.6	FINE BUBBLE TECHNOLOGIES	200
12.1.6.1	Business overview	200
12.1.6.2	Products/Solutions/Services offered	200
12.1.6.3	Recent developments	201
12.1.6.3.1	Expansions	201
12.1.6.4	MnM view	201
	?	
12.1.7	SHANGHAI MUTAO ENVIRONMENTAL TECHNOLOGY CO., LTD.	202
12.1.7.1	Business overview	202
12.1.7.2	Products/Solutions/Services offered	202
12.1.7.3	MnM view	203
12.1.8	ALL-PUMPS PTY LTD.	204
12.1.8.1	Business overview	204
12.1.8.2	Products/Solutions/Services offered	205
12.1.8.3	MnM view	205
12.1.9	NANOKRITI	206
12.1.9.1	Business overview	206
12.1.9.2	Products/Solutions/Services offered	206
12.1.9.3	MnM view	208
12.1.10	NEWMANTECH CO. LTD.	209
12.1.10.1	Business overview	209
12.1.10.2	Products/Solutions/Services offered	209
12.1.10.3	MnM view	210
12.2	OTHER PLAYERS	211
12.2.1	TRIDENT BUBBLE TECHNOLOGIES LLC	211
12.2.2	ARMSTRONG INTERNATIONAL INC.	212
12.2.3	TAISEI KOGYO CO., LTD.	213
12.2.4	QINGDAO AOZENGIER PURIFICATION EQUIPMENT CO., LTD.	214
12.2.5	GAIA WATER LTD. GAIA USA, INC.	215

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12.2.6	RAPID WATER TECHNOLOGIES	216
12.2.7	AQUAB NANOBUBBLE INNOVATIONS LTD.	217
12.2.8	AIROXI TUBE	217
12.2.9	GASION AIRTEC PVT. LTD.	218
12.2.10	NANJING LANJIANG PROCESSING EQUIPMENTS CO., LTD.	219
12.2.11	ZHEJIANG JUBEI TECHNOLOGY GROUP SHARE CO., LTD.	220
12.2.12	DINO PURIFICATION EQUIPMENT(GUANGZHOU) CO., LTD.	221
12.2.13	HINODE SANGYO CO. LTD.	222
12.2.14	NIKUNI CORPORATION	223
12.2.15	SOLARI WATER	224
13	APPENDIX	225
13.1	DISCUSSION GUIDE	225
13.2	KNOWLEDGESTORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL	229
13.3	CUSTOMIZATION OPTIONS	231
13.4	RELATED REPORTS	231
13.5	AUTHOR DETAILS	232

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Bubble Generator Market by Type (Micro, Fine, Nano), Technology, Function, End-user (Water & Wastewater Treatment, Agriculture & Aquaculture, Food & Beverage, Chemicals, Power Generation, Mining & Mineral Processing), and Region - Global Forecast to 2029

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*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

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