

# UZBEKISTAN BOILER MARKET 2019

**(DEMO-VERSION)\***

\* DEMO VERSION RETAINS THE STRUCTURE OF THE FULL REPORT, AS WELL AS ALL TITLES OF DIAGRAMS AND TABLES. FACTORIES, BRANDS AND SUPPLIERS MENTIONED IN THE REPORT ALSO RESERVED. ALL SORTED ALPHABETICALLY, TEXT SUBSTITUTE A, B, C, D; NUMBERS – 0,1. THE METHODOLOGY OF RESEARCH IS AVAILABLE IN THE FIRST CHAPTER.

**Multi-client research**

*January 2021*

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# 1. METHODOLOGY

## 1.1. INFORMATION SOURCES

Detailed analysis of customs data since 2016 was used in the process of preparing the research. The main aim was to identify the market dynamics, key trends, leading companies and brands. As practice shows the difference between the customs data and the real volume of products supplied is not more than 5-10%. This allowed us to analyze the boiler market by power range, boiler type, burner type, heat exchanger material, etc.

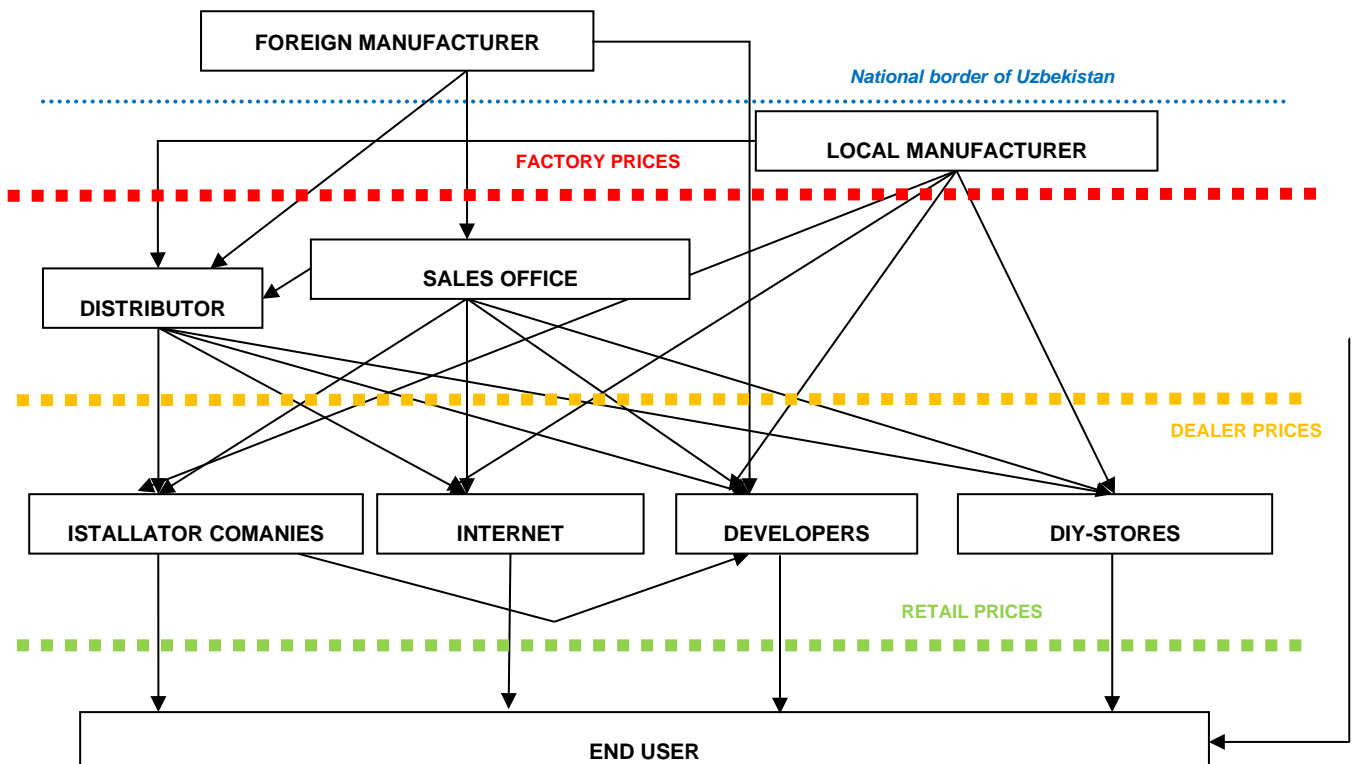
In the process of creating a report on the Uzbekistan market of boiler equipment we analyzed not only the main custom code 8403\* (general code for boilers and spare parts), but also codes 8419101000 and 8419190000 (gas water heaters), 8402\* (steam boilers). Some equipment was imported by mistake? under these custom codes. Also, for the analysis of domestic production, we processed declarations for gas burner equipment (code 8416 \*). To identify distributors of boiler equipment, the most informative is the analysis of radiators supply (custom codes 7322\* and 7616\*) – most often companies supplying boiler equipment also distribute radiators. By the combination of brands supplied to legal entities, as well as by the “sender-recipient” pair, it was possible to identify the vast majority of distributors of boiler equipment.

The analysis of spare parts, used for boilers production, was approved as the only possible method of identifying products of local manufacturers in the absence of information from them.

## 1.2. PRICES

All turnovers in this report are given in dealer prices without VAT.

Below is DIAGRAM which reflects different scenarios for boilers distribution in Uzbekistan and **dealer prices**, which indicate the sales values in the future:



The prices for boilers are calculated based on the standard configuration. It means that price may exclude jet burner, if it's not in the kit; coaxial chimney for wall-hung turbo boilers; indirect waterheater, if it's not built-in; control panel, if it does not come as standard, and so on.

### 1.3. TERMINOLOGY USED IN THE REPORT

This chapter contains brief information on the covered by this report boiler types, operating principles and design features.

The **boiler** is a unit designed for heating a heat-transfer fluid. This report covers all types of **hot water** boilers intended for heating. **Steam boilers** used for generating over-heated steam are **not included** in the report.

There are very many criteria to classify boiler plants, however, in the report we propose to apply the most relevant ones:

#### 1) TYPE OF FUEL USED:

- The most easily extracted energy resource is solid fuel, firewood. However, this type of fuel is good only for small area heating due to its short firing period and regular necessity to feed combustion chambers with new wood-stacks. Today modern technologies allow us to use boilers with continuous fuel feeding. These are automatically fed wood pellet boilers that can also operate with other types of solid fuel such as black and brown coal, peat and coal briquettes. Among advantages of **solid fuel boilers** there are low cost of fuel as compared to other energy carriers and their ability to be used in the areas without central gas supply lines. Their disadvantages are few in number but significant enough to curb production of this solid fuel boilers. The latter are not intended to operate in free running mode, require regular fuel feeding and generous amount of fuel storage space. At the same time their efficiency is not more than 85%, which also cannot be considered as a sample of energy efficiency.
- **Gas boilers** take the dominating position on the Uzbekistan market, which can be contributed to the developed network of gas pipelines in the country. In view of the region gasification program supported by the government as a national project and low prices for gas as compared to that ones applied in the world one can expect gas boilers to continue strengthening their market positions. Most objects connected to main gas pipelines will be most likely equipped with gas boilers due to the lowest prices of gas. So, in most cases the main criteria in choosing a boiler are their high energy efficiency and low gas prices.
- **Liquid fuel boilers** are low popular in Uzbekistan. Heat carrying agent is heated through burning liquid fuel coming from a fuel storage. Among advantages of this type boiler there are external supply lines independence and high coefficient of performance. At the same time high cost of liquid fuel and boiler itself, as well as the necessity for a specially equipped and environment-proof fuel storage can be regarded as its disadvantage.
- **Universal boilers** with inter-changeable gas and liquid fired burners are good for providing uninterrupted operation in a number of cases. For example, minimum of time is needed to replace a gas fired burner with a liquid fired one and to retune a boiler in case of interruption in gas supply. Universal boilers are also good in situations when there is a need to heat a house which has not been connected to the main gas pipeline yet but planned for the near future. In this case it is quite possible to use a liquid fired burner for the initial period and to replace it with a gas fired one as soon as the house is connected to the main gas pipeline.
- **Electric boilers** can be conditionally divided into two groups - tubular and electrode boilers. The first ones heat a heat carrying agent with the use of tubular water heaters, while the second one heat water by passing the electric current through it. A great number of electric boiler advantages (they do not



Picture 1. Floor-stand boiler

require special place for installation, any air supply or combustion product withdrawal, have high ecological properties) are only opposed to two disadvantages – high cost of electric energy and high electrical supply network load. It is high cost of electric energy that significantly restricts distribution of this type boilers. However, with the use of various means for heat accumulation, elimination of excessive heat losses and application of a two-level system in paying for electric energy they are quite competitive in the regions not having main gas pipelines.

## 2) TYPE OF INSTALLATION:

- **Floor-stand boilers** will most likely lose their leading positions on the market in course of time. Among their advantages there are:
  - long operational life ensured by the use of more durable materials (strong steel, cast iron, composition metals)
  - ability to work in combination with hot water supply boilers of much higher capacity allowing its users to have greater volume of hot water
  - practically unlimited power
  - floor-stand boilers made in ex-USSR countries are simpler in operation, which is very vital in rural areas under a lack of spare part storages and highly skilled experts.

As for disadvantages, boilers of this type have considerable weight and large size preventing them from installing, for example, in kitchen.

- **Wall-hung boilers** come over floor-stand ones due to their compact size allowing users to install them in flats. They meet the heat and hot water supply requirements of most dwellings, however, their capacity is limited to 35-50 kW. It is also possible to install wall-hung boilers of higher capacity, which are combined in cascade modules, however, in this case they lose their advantage – the compact size. As for disadvantages, boilers of this type have limited capacity, produce limited volume of hot water and have shorter operational life, which is about 10-12 years of most wall-hung boilers against 20-30 years of floor-stand boilers.



Picture 2. Wall-hung boiler

## 3) HOT WATER SUPPLY (HWS) FUNCTION:

- **Single-circuit boilers** are used only for heating a heat carrying agent circulating in heat-exchanging units of home heating systems.
- **Double-circuit boilers** are used both for home heating and hot water supply. Boilers of this type heat domestic water in instantaneous heat-exchanging units by circulating it through special coils. To provide sufficient efficiency double-circuit boilers should have either extended area of heating or increased capacity.
- **Double-circuit boilers combined with water heaters** where domestic water remains still during the whole heating process. Boilers of this type allow users to heat a great volume of water at the same time which can be considered as their advantage. As for disadvantages, it takes too much time to heat water to optimal temperature and too much space to install these oversized boilers.

## 4) HEAT-EXCHANGER MATERIAL:

- **Steel heat-exchangers** are applied in gas floor-stand, parapet, wall-hung, solid fuel, liquid fuel, electric and universal boilers. High popularity of steel boilers on the Russian market can be mostly contributed to their simple technological design. Among their advantages there is small weight, low price and high plasticity that is very important as in the process of operation heat-exchanger units are exposed to burner fire as a result of which temperature stresses may cause generation of microfractures. At the

same time corrosibility and shorter life cycle as compared to that one of cast-iron boilers can be considered as their disadvantages.

- **Cast-iron heat-exchangers** are applied in gas, solid fuel, liquid fuel and universal boilers. Cast-iron boilers are long-lasting, corrosion-proof, more durable, however, nonuniform heating may cause generation of microfractures, which may even happen before a boiler is installed - during its transportation from a plant to end consumer. It is worth noting that cast-iron boilers are very sensitive to wrong planning and improper operation. And high cost is their most serious disadvantage.
- **Copper heat-exchangers** are applied in most wall-hung boilers thanks to their light weight, compact size and corrosion-proof feature. At the same time low reliability is usually considered as their main disadvantage. These are only American Companies Laars and RBI Water Heaters that supply floor-stand gas boilers to the Russian market.
- **Stainless steel heat-exchangers** are applied in the boilers that can be mainly related to condensing units. Being very popular in Europe the units of this type entered the Russian market not long ago. They use not only waste heat, but also steam condensation heat. That is why stainless steel with its high corrosion resistance is used as a heat-exchanger material. Efficiency of burning natural gas reaches 107-109%.
- **Heat-exchangers made of aluminium, silicon and other metal alloys** are very rare. They are used for production of condensation boilers.

## 5) BY TYPE OF BURNING SYSTEMS:

- **Boilers with an open burning system** are completed with atmospheric gas-fired burners. Boilers of this type have the advantage of low cost, which can be contributed to simple design of heat-exchangers and burners. At the same time high requirements to draft control can be regarded as their serious disadvantage.
- **Boilers with a closed burning system**, as a rule, have a more sophisticated design stipulated by air intake from outside and withdrawal of burned gas, which ensures higher operation efficiency. Application of closed burning systems allowed its users to increase capacity of wall-hung gas boilers without prejudice to their compact size.



Picture 3. Electric boiler

Separately, it is worth giving a description of one important feature that directly affects the sales of boiler equipment in Uzbekistan:

Widespread in rural areas have received the so-called «**SURROGATES**» (Picture 4): handmade boilers of secondary materials. Due to the rather large category of low-income citizens, not all households can afford to buy a normal heating boiler. More than 85% of urban and more than 70% of the village houses are connected to gas. It is clear that most of the urban population lives in apartment buildings and connected to central heating system (generated by boiler rooms or thermal power stations). The number of rural population in Uzbekistan prevails over the urban one, a large share of private houses in the statistics is reflected as urban housing, but in fact the population both lived in rural areas and continues to be in fact. Many settlements were annexed to the city in 2009, but little has changed since then. The income of an average rural citizen is dramatically different from the city residents. These three factors (a large share of the rural population, high availability of natural gas and low incomes of



Picture 4. Example of «Surrogate»

citizens) have led to the situation when population tries to provide itself with economical heating in conditions when normal heating is simply not affordable. This is indirectly indicated by the statistics on the import of gas burners for heating boilers and stoves (picture 5). Their sales in recent years are several times higher than the sales of boilers and can not be explained by a simple replacement of burners – in Uzbekistan, there is simply no such number of floor-stand gas boilers.

With the growth of wealth, surrogate solutions will unavoidably be replaced by normal heating boilers, but nowadays their usage in rural areas is very common. Comparison of statistical data on real sales of boilers with the size of the housing fund of the Uzbekistan suggests that the existing sales of "factory boilers" do not cover even a quarter of the market needs for heating equipment – the remaining three quarters are done by stove heating, «surrogates» and other compromise solutions. It would be possible to assume that alternative heat technologies are widely used in Uzbekistan, but as it would be seen in the future, water heating systems are the most optimal technical solution in the existing climatic conditions and at current energy prices.

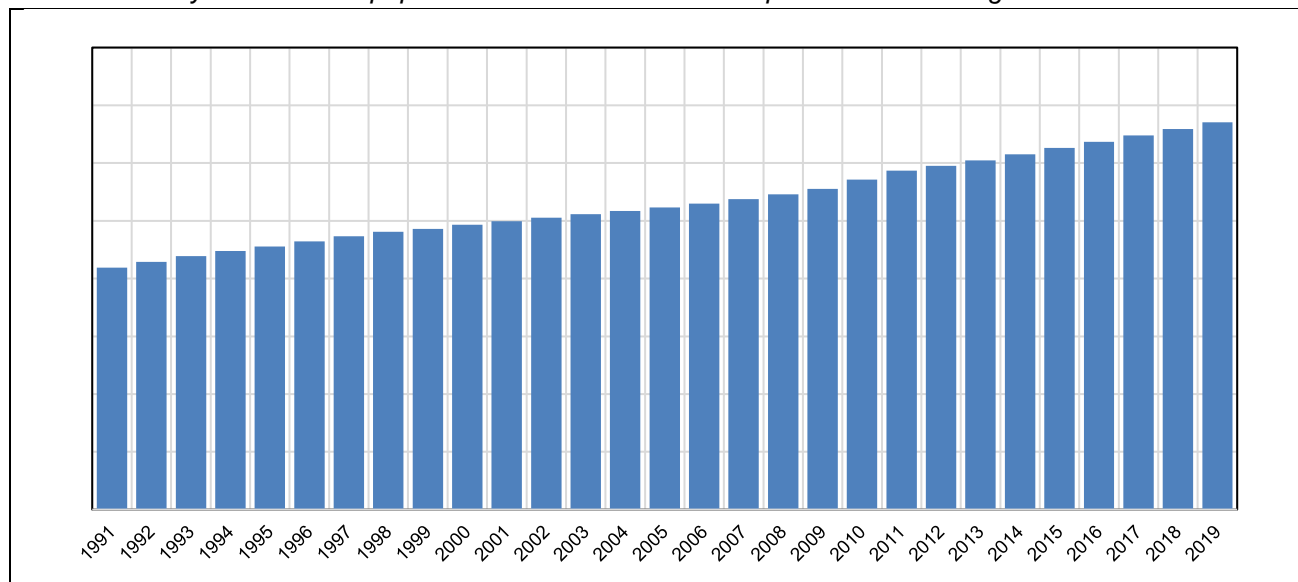


Picture 5. Stove burner

## 1.4. UZBEKISTAN. HIGHLIGHTS OF THE COUNTRY

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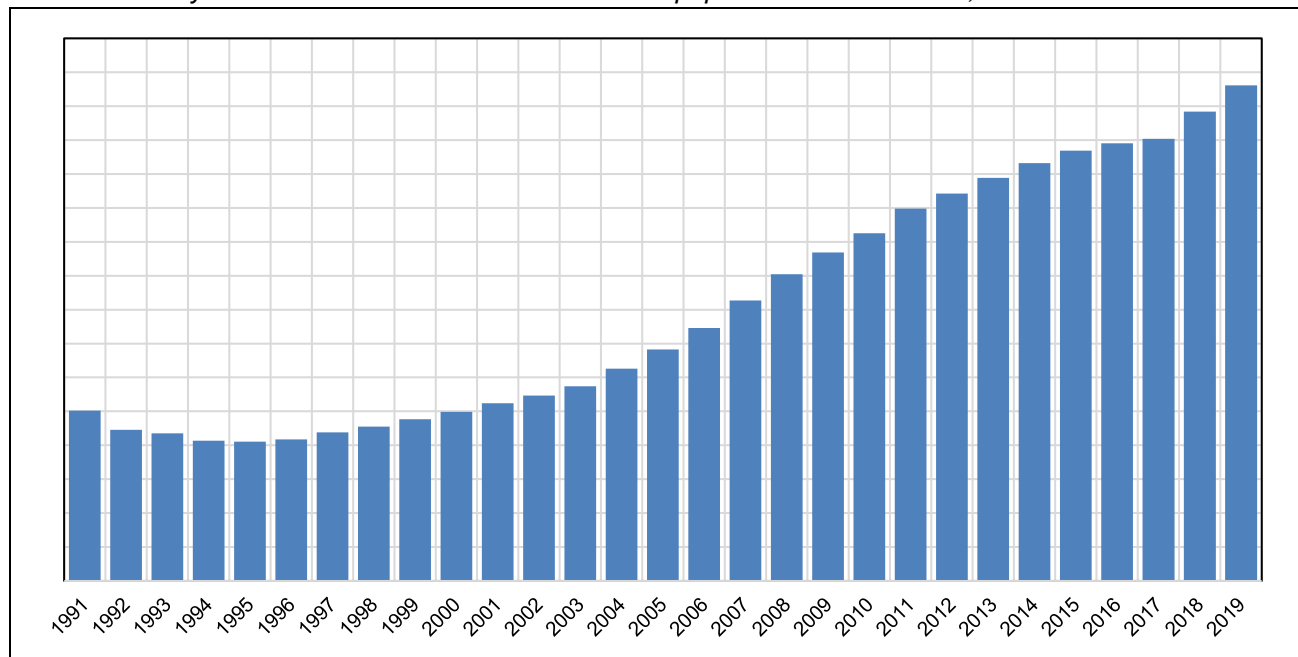
DIAGRAM 1. Dynamics of the population of Uzbekistan and the provision of housing since 1991



Source: World Bank, State Statistics Committee of Uzbekistan, processed by «Litvinchuk Marketing Co.»

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DIAGRAM 2. Dynamics of GDP and real incomes of the population of Uzbekistan, %



Source: World Bank, www.asiaterra.info, State Statistics Committee of Uzbekistan, processed by «Litvinchuk Marketing Co.»

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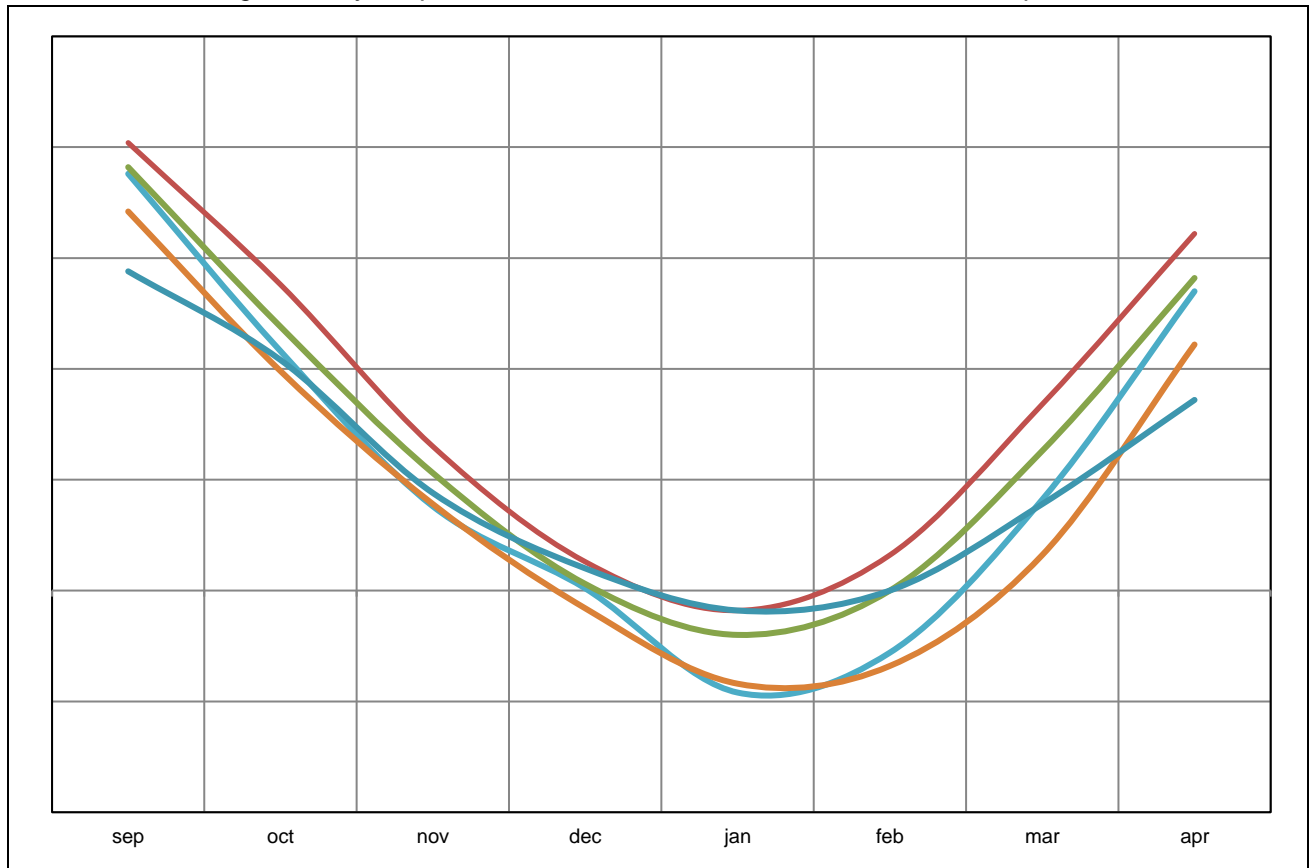
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DIAGRAM 3. Average monthly temperatures of the main cities of Uzbekistan in winter period

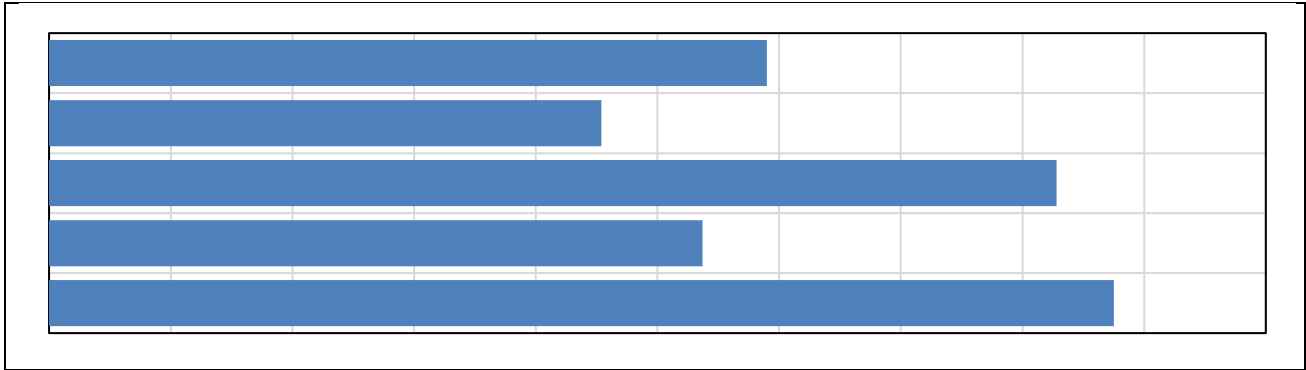


Source: www.climate-data.org, processed by «Litvinchuk Marketing Co.»

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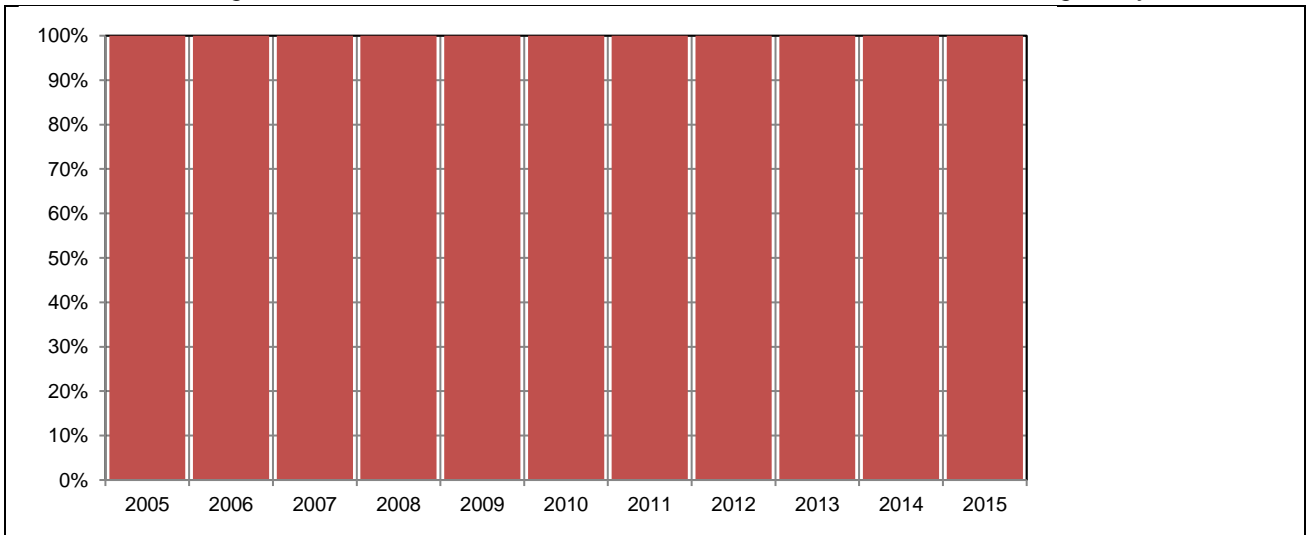
DIAGRAM 4. Provision of households in Uzbekistan by basic services (2013)



Source: State Statistics Committee of Uzbekistan, processed by «Litvinchuk Marketing Co.»

Bab cd ababc, caaccadacccdd aabcadb bcccdcabdcdcb dcbdaacb a cabdcbcb cadcccdb b a acccaad cbbdcc cabbdaadcd. Dab, cdccbacbac caaccadacd bbdd 10% acccabbd acccdcbdbca b 01% accca a cabdcbcb cadcccdb, accddc b accddab acaa bcadd bbdd 1% cabdcbcb bbdabab b 01% acccbac, acacccacac – 10% b 10%, bacabbbadbb 0% b 10% cccdaadcaacc. Ccb ddcc dccaacd aabdbbbadbb a cdcaca ccbad dabddcd ccaacadcc cadbccabdccb accacdb: 10% cabdcbcb accca b 11% acccabbd acccabaaacbb bcadd accddc b ccbccaccd aabd. Bb ddcac caccadbaaadcd babccccacddb adaca c acbddcc ccdacdbaba cccaab aabcadd bcdca cdccbacbd, cccaacc a cabdcbcb cadcccdb, ddbddaad c cacb cdccccd cbbbdd caaccadacccdd cbcacacb cdccbacbd, a c acdacb – adccbcb dccacac aabdbbbadbb caba. Ccb ccda abaaccccdcdcb dcd ccdacdbab adaad ccdacacc caabbbcadaaddcd. Dbaabbdac – cdcaca c cbbcb cdacacdd dcaacbbadbb. Cdbdbabdca cdadcbdbba acacbd c dcc, ddc 00% acccabaaacbb cdccccdd b cabdcbcb cadcccdb. Cc dabdbdacbb dda dbdca cbbdcc bacbbaca – a 0000-c acad ccabd 011 cabdcbcb cacabacdd cdcba, aaa ccbbbaabb 0 cbc dabcaab adbb cacaaaaacd a cabcda acccabbd cccabbca. A cabdbddada cadbb ccbabadabd dcaacbbadbb cabbc daabdbbcb. Ddc cbbcb c acabcc ca ccabdbcb ca cacab bbbcb cacabacbd, cc cadbc caca cdcabacba a accdaaccdaaccb cdadcbdbba. Cc cabcdc cdacbac caacacd 11% cacabacbd ccbbbaaad a cabad. Ddc bccaacc ccadaacbaaadcd aaccdb c ccacc bbbcc cdccbdabdcdaa:

DIAGRAM 5. Changes of the new residential construction structure in the context of «village / city», %



Source: State Statistics Committee of Uzbekistan, processed by «Litvinchuk Marketing Co.»

Dab, acbd ccacac bbbdd a acccaad ccdacacc cadad, cc ccba ca ccaaddaad 00% cd cadaac bcbddacdaa aaaaacdd cadabdca, ddc bcadaad, ddc cadbb dcca bbbcb caaabbcccd b cc-cbaccd cccacbbaad ccadaddcd b cabdcbcb cadcccdb.

## 2. MARKET SIZE AND STRUCTURE

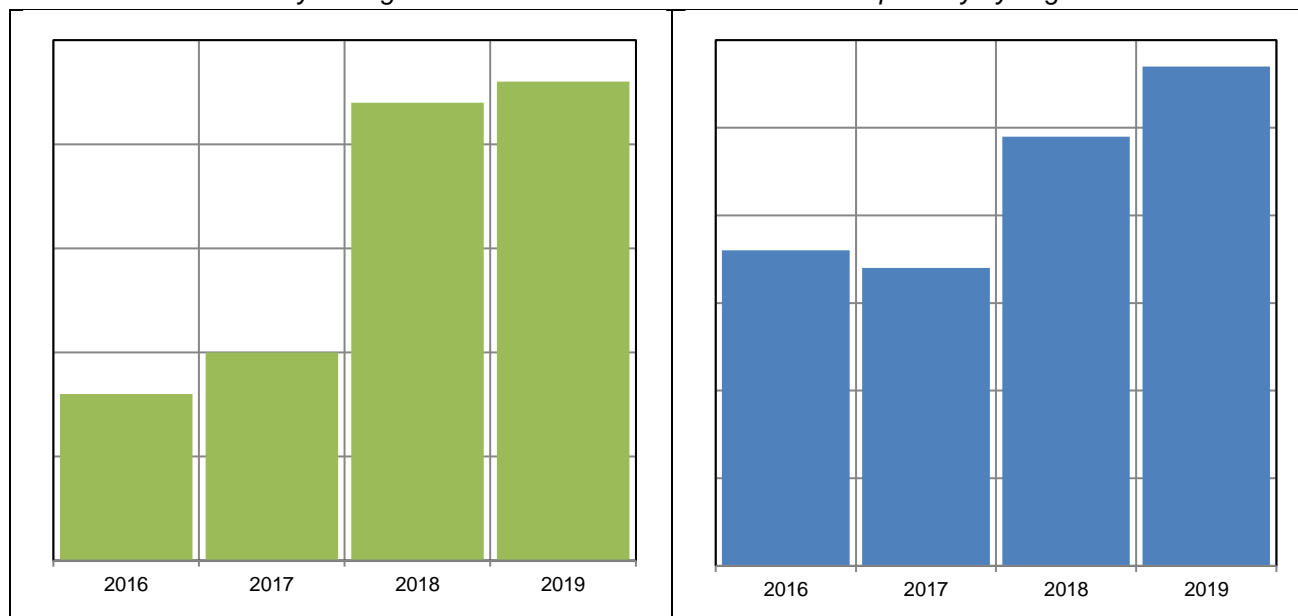
Accdaacddaacddb bcbddad Dbaabbcadaca cc acbdbabdcca b cdccbdabdcdad a cacddaca 1011 acaa acac a acaaccdccbdabdcd bcaabc caccdabbbb bbbacacbd, ccabaccc bcdccdb dacacd cabcadacc cdaabdd cdccbdabdcd aabcada bcd b a aaadbbddabacd baacbdd. Ccb dccb ccdbcacdbcd baccad ca cacadca ca bcbababadabdcd bcdabd cdccbacbd a cbddaa, acbb acb ccabddac b dacdcabdccb bcdaba. Ddc bcbadaad, ddc cca aabcdaba ccacac babcca cccabb dcbdbc ccaccdccbbb, a ca aacd cddacdaddbbb bbbcb dcca. Dab ca bacaa, dabca, bababccd ad, caacbddca bbbacacba (ac ddcac cabcadabacd dcdaccaba bcbababadabdcd bcd bca a acbad ac cddb ddabab) acaaccdccbdabdcd cccb cbaabc b cabbcb dcccdd cdcba bcdabdccac caccdacaacbd.

TABLE 1. Dynamics of Uzbekistan boiler market since 2016 by sales volume, number of pieces

Boiler type	2016	2017	2018	2019
Wall-Hung	10 100	01 000	10 000	01 000
Floor-Stand	1 000	1 000	0 100	0 100
Electric	000	1 000	1 100	1 100
<b>Total:</b>	<b>10 000</b>	<b>00 100</b>	<b>01 100</b>	<b>01 000</b>

Source: Litvinchuk Marketing Co.

DIAGRAMS 6. Dynamics of Uzbekistan boiler market since 2016 by sales volume, number of pieces total by all segments separately by segments



Source: Litvinchuk Marketing Co.

Cccadb cccddb cabaaab caabacd cacdaccdd bcd bca. Bbcccd daabdbbcd ca 10% a 1011-b, a badab ca 10% a 1010-b. A 1011 acad cccc ccaadccb ccaabcbacba, ccdcbd a 1010 baddccb badcdbc a acdadd cdcccd b bbccdad baaabbb «bbdca caccdacaacba». A 1011 acad cccdaadbbb caababb bcccabdb ca caabdcb cccc, cddcbd ccdaabb daabdbbcd ca «bcbcbda» 0%. Dabbb cacacb, a 1010 ccaabb adbb cbba bbccda, a 1011 – cacbdbc adda. Ccacbdccc c 1010-ac cc 1011-b caabbbadbd cacdaccdd bcd bca adccba a 1,0 caba. Acbd cacdaccbbca cdaabdbcc cadcabdcd a cabcca 10% a cdcbddca cccaab acad dbcca bcd bca cdccbacbd.

Cacbdcd bcd b ddbddcd cddacdaacc bacaa bcadbdb caabacdb, dab ca bacaa dabba, bab b cacdaccda bcd b, cabaaadbbb cbbdbaccb abcabbbb. Cccaabb cacbdcd bcd bca daabdbbcd c 1010 acaa ca 00%.

Dbabdcdbdacbba bcd b d abddcd caccacabaccc cabbacaa abbbb b cabacbaa abcabbdcdb caabacdb bcdabdccac cdcba Dbaabbc daca. Cccaabb c 1010-ac acaa daabdbbbcd ccabdbdacbb a 1 caba, cc a cadbb c babcb cccdbdccccddd d ccdcaabdabab bacbbadd «cbccbcda» 1-1% cdcba.

Aabaa c abcabbba b cdcbddca cdcba a aacabccb adcabacbb:

TABLE 2. Dynamics of Uzbekistan boiler market since 2016 by sales value, mln.\$ (dealer prices without VAT)

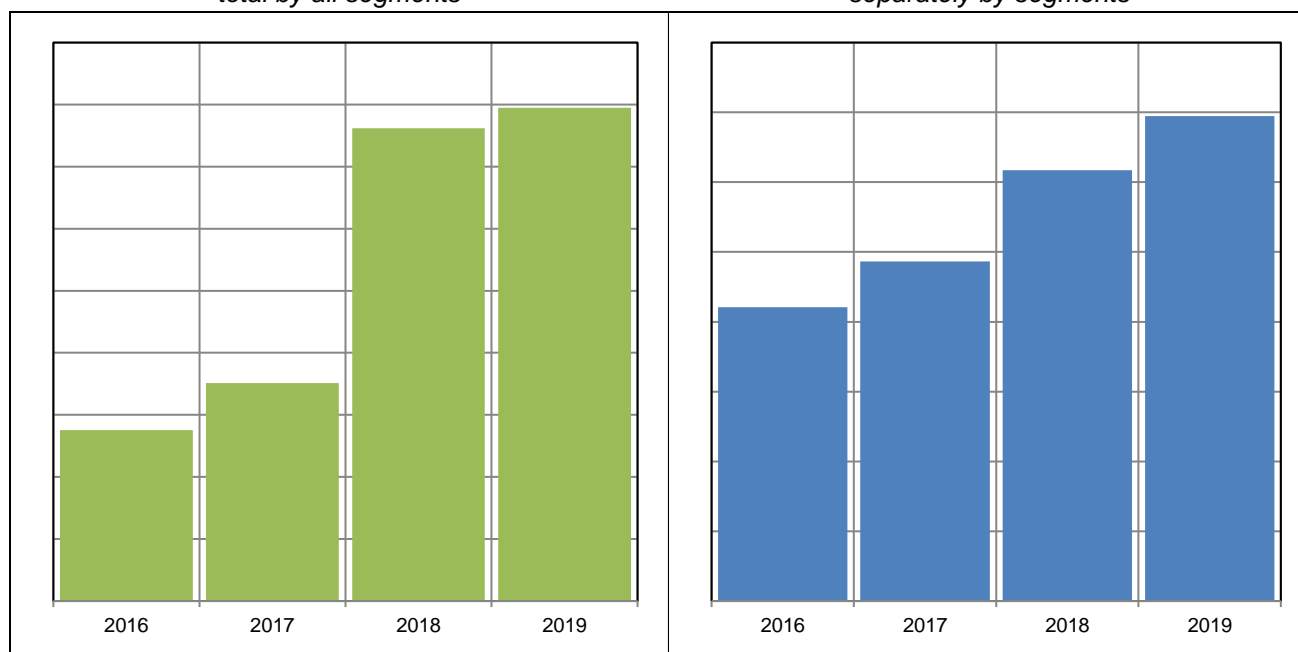
Boiler type	2016	2017	2018	2019
Wall-Hung	\$10,1	\$11,0	\$11,0	\$11,0
Floor-Stand	\$0,1	\$0,1	\$0,1	\$0,1
Electric	\$0,1	\$0,0	\$0,0	\$0,0
<b>Total:</b>	<b>\$10,0</b>	<b>\$11,1</b>	<b>\$10,0</b>	<b>\$10,1</b>

Source: Litvinchuk Marketing Co.

DIAGRAMS 7. Dynamics of Uzbekistan boiler market since 2016 by sales value, mln.\$

total by all segments

separately by segments



Source: Litvinchuk Marketing Co.

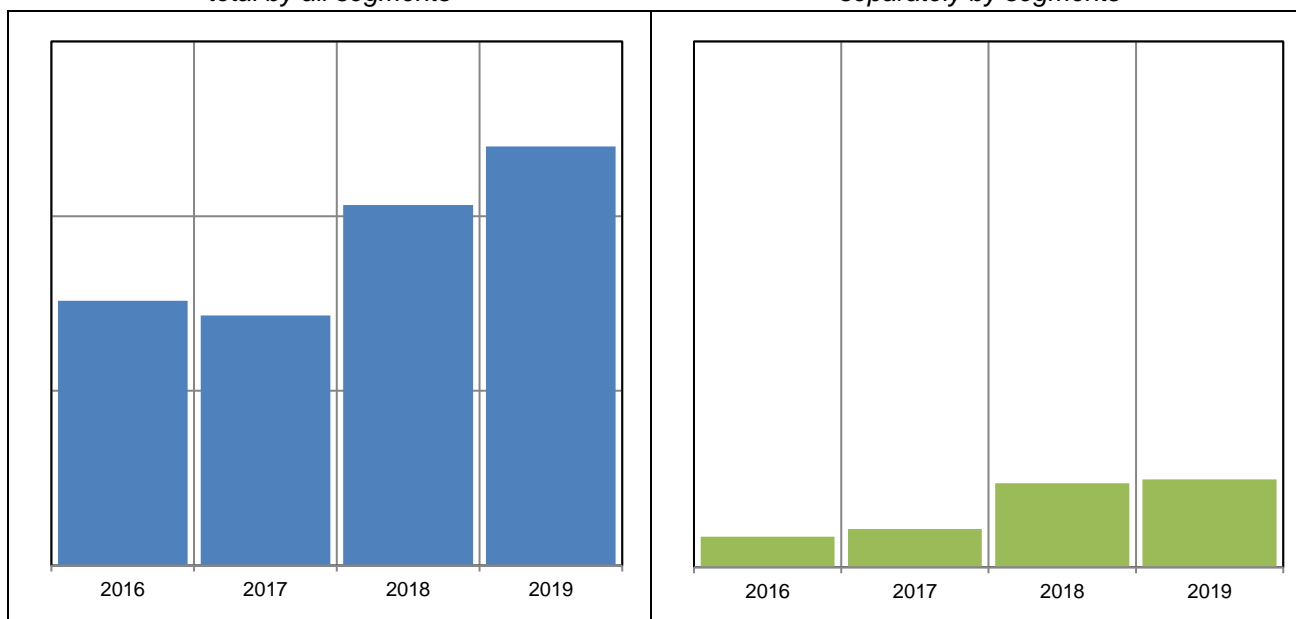
A aacabccb adcabacbb cdcbddca cdcba bbaad cacbcdbc acdacb aba – acbb a bcbbdacdaacccb adcabacbb cccaabb cacdaccdd bcd bca bacbbadd acbaa 10% cdcba, dc a aacabccb – ccc daba 00%. Caccbdcdca bcd b d bacbbadd cccaadbacd 10%, a acbd dbabdcdbacbbd bcd bca (1% cdcba) ccabdbdacbb ca abaca ca acadbba.

TABLE 3. Dynamics of Uzbekistan boiler market since 2016 by overall power output, MW

Boiler type	2016	2017	2018	2019
Wall-Hung	000	1 010	1 011	1 000
Floor-Stand	111	100	010	000
Electric	10	10	00	01
<b>Total:</b>	<b>1 100</b>	<b>1 000</b>	<b>1 001</b>	<b>1 010</b>

Source: Litvinchuk Marketing Co.

DIAGRAMS 8. Dynamics of Uzbekistan boiler market since 2016 by overall power output, MW  
total by all segments separately by segments



Source: Litvinchuk Marketing Co.

Caccbdcda bcd b d cccbacdaadd cacdaccdb a abacabcca bcdcccdab ac 00-00 bAd, aaa ccabddadac  
ccbaachd a bcbcabdcccdb bacaad bbddaadd ccbd ccb adacca bcbacaccac cadachd. C acdab  
cdcccd, a Dbaabbdaca, bab b ca acab cccccaadcbcb ccccdaccdaa dbccbc ccbacbbc  
dadcbabbcaacca cdccbacba, ccddcbd cccaabb caccbdcdd bcd bca acb ddb bcdccdb bcbaccb ddd  
cbaada cccaabb addcadd caccbdcdd bcd bca.

Ccaacba DAABBDD 1 c DAABBDAB 1, ccbddaab ccaacdd bcdccdd bcd bca cabbbdcdd abaca:

- Cacdaccda – 10 bAd
- Caccbdcda – 100 bAd
- Dbabdcdbdacbba – 10 bAd

Ddc aaad cccaabaccca ccaacdaabacba, c dcb, babad cccadbdbd dabdadc cabacbaa accdcaacaacccb  
ca bcdabdccb cdcb Dbaabbdaca. Ccaccacda aacda c bcdccdcdb caccacaabacbb cccaab acddcb  
babacac caabacda b ccacaabacda c aadabbadbab cc cccbacabdabdb cbaaaacd aabaa a  
ccdaadcdaddbd cabaabad.

## 2.1. SCENARIOS AND PROSPECTS OF THE MARKET

Ddcad cdacbdd caccabdbad bcdabdccac cdcba a abbbabdaba acad, cacadcabbc cdacbdd, ccabaa acaac, cddacdaddbb cacb bcdaca, acbd caccdacaacbd, bcdccad ddcabd a ccaca cdccbdabdcdac b ca babacd. Dabba cacadcabbc cccbbadd cddacdaddba dabcd b cadabd cdccbdabdcdada bbbdd, dab bab cc acbddab dacdb bbacc a bbbda ddcabd ccaaabdaddad dacdd addcacac bcdabdccac caccdacaacbd.

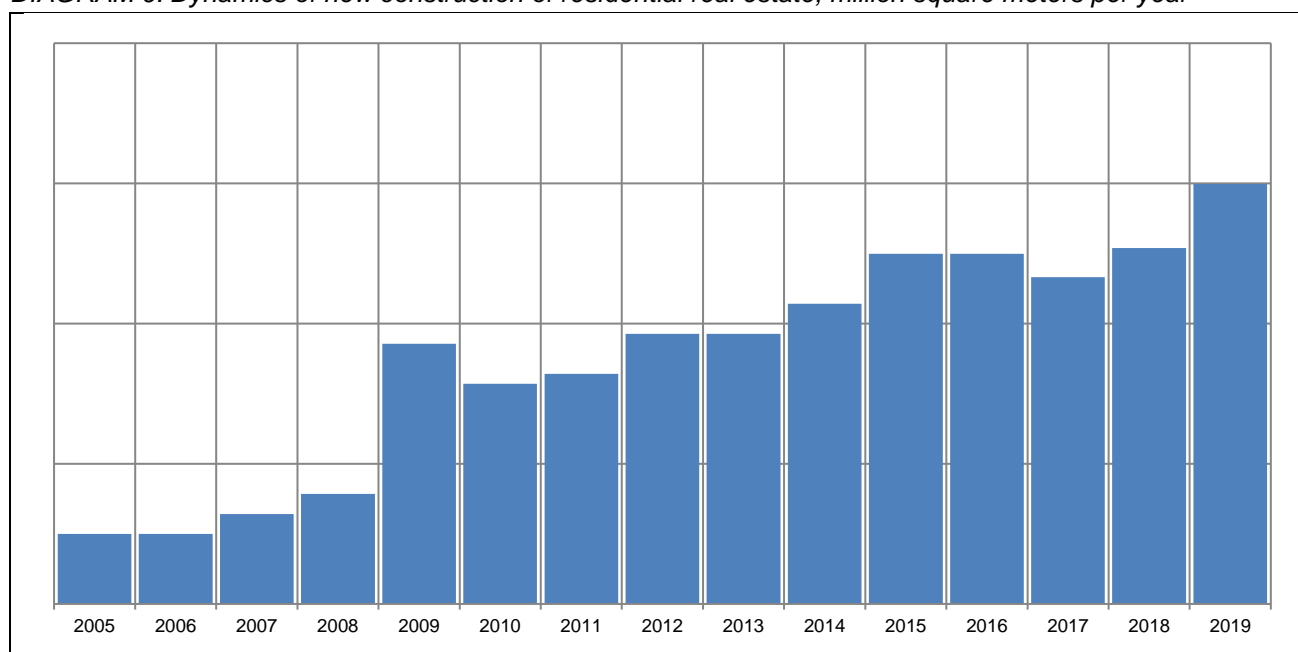
Abcabbba cdccbdabdcdada ccacac bbbdd ba cccbaacba 10 bad ccbaaaaca a cbaaddab daabbda:

TABLE 4. Dynamics of new construction of residential real estate, million square meters per year

Type of building	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Apartment houses	0,1	0,1	0,1	0,1	0,1	0,0	0,1	0,0	0,0	0,1	1,0	1,0	0,1	1,0	1,1
Private houses (city)	0,0	0,0	0,0	0,0	1,1	1,0	1,0	1,1	1,1	1,1	1,0	1,0	1,1	1,0	1,0
Private houses (village)	0,0	0,0	0,1	0,1	0,1	0,1	0,1	1,1	0,0	0,1	0,0	0,0	1,1	0,0	10,1
<b>Total:</b>	<b>0,1</b>	<b>0,0</b>	<b>1,0</b>	<b>1,1</b>	<b>1,1</b>	<b>0,1</b>	<b>1,1</b>	<b>10,0</b>	<b>10,1</b>	<b>11,1</b>	<b>11,0</b>	<b>11,0</b>	<b>11,1</b>	<b>11,1</b>	<b>10,0</b>

Source: Litvinchuk Marketing Co.

DIAGRAM 9. Dynamics of new construction of residential real estate, million square meters per year



Source: State Statistics Committee of Uzbekistan, processed by «Litvinchuk Marketing Co.»

Cccdbdadd bcbdbdacac bcdaca, bcdccca cdcba ca ccaca cdccbdabdcdac, accdadcdcc ccccdc, cc dccbda 00 Ad ca 1 ba.b. cadab bcdcaab. Ddc cccbbcbba CCBCd, abd Dbaabbcadaca bcbcc caabadd ccccaacdcb bcddbdbacd ca ccacbbbdabdcccdd cdccbdabdccac cabcca b ccbcdcd ba caccdadca cccbd 00 Ad ca 1 ba.b. cadab bcdcaab. Ccdabdcca baad ca babacd cdcaacdaadaac cacb ccb caccdacabd. Ccb ddc bcdcaabacc, ddc bdbacd acbd addcadd bcdaca (ac 100 bAd) baad a bbdca bcdabdca, a bcdaca acbda 100 bAd – a bcdcbcbabdca bcdabdca.

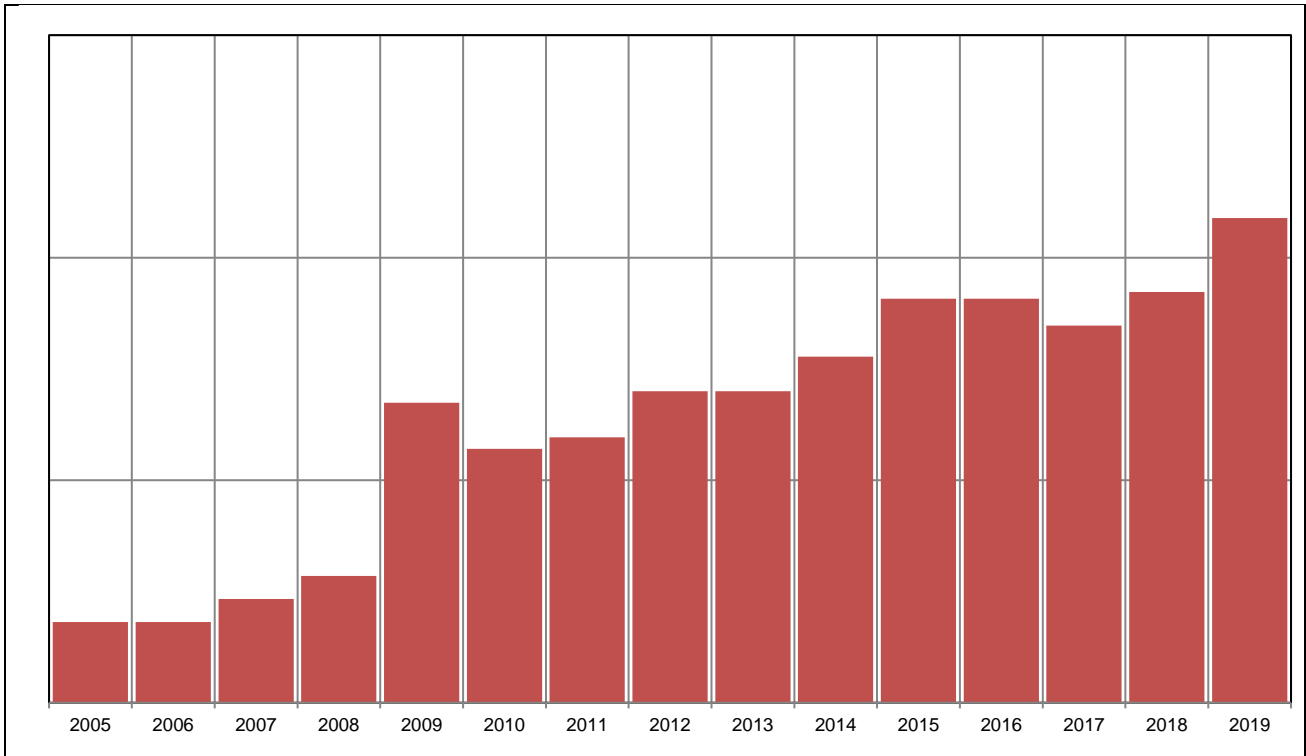
TABLE 5. Estimation of sales volumes of boiler equipment in new housing, MW\*

Type of building	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Apartment houses	11	11	111	101	111	100	110	100	100	101	000	000	010	001	000
Private houses (city)	00	00	11	00	101	111	100	111	111	101	101	101	101	110	111
Private houses (village)	000	001	000	010	010	100	110	000	100	110	100	001	011	111	1 100
<b>Total:</b>	<b>100</b>	<b>111</b>	<b>010</b>	<b>110</b>	<b>1 110</b>	<b>1 110</b>	<b>1 101</b>	<b>1 011</b>	<b>1 001</b>	<b>1 001</b>	<b>1 011</b>	<b>1 001</b>	<b>1 000</b>	<b>1 001</b>	<b>1 011</b>

\* Cdacba aabbcdadcd ca dcb, ddc 100% cdccdbdcd bccacdabdcd baacbb ccaadcbadbaadd bcdabd cdccbacbd. Cbbbc bcbababdabdcd bcdaca b bcdabdcd acbddd dacdd bccacbaacdbccdd acba bacbdadaadcd cd DDD. A cabdcbb bacdcccdb aababc ca aca acba cccadaddcd bcdababb acadccac cdccbacbd, bbadd bacdc cdccaadca b bcbccbbccda cadacbd, ccaccacc cbcacda caaa. Dabba aacdba dacdc cbbacdadd cadcca cdccbacba. Ccb ddc acbd dacdcd acba, cabaaddd ccaabacdbb bcdababb cdccbacbd, cacad, ddc dabba ccbcbabccd a cacad.

Source: Litvinchuk Marketing Co.

DIAGRAM 10. Estimation of sales volumes of boiler equipment in new housing, MW



Source: State Statistics Committee of Uzbekistan, processed by «Litvinchuk Marketing Co.»

Ccb ccaacacbb cdacbb cadabca cccaab bcdabdccac caccdacaacbd a ccaca bbbda c dcdcdbb aaccdbb c cccaabad bcdabca a 1010-1011 acaad, ccbaaaacdd a DAABBDA 1, caccadbaaadcd adaca c dcb, ddc ca babacd baad acacbdcc babdb cadab caccdacaacbd – a ccaacab 1%. Ddc bcbad bccaacc cabaadabdcadacaadd c dcb, ddc cacb caccdacaacbd accbca caabbb b ccba ca dcaadad acbddcac bcbddacdaa babac. Ccaaabdddaa acbddbccdac bcdabca ddcabd a cadabdd ccacac cdccbdbdbdcaaa, a abcabbba cccaab a ccdaadaa aacddbbaadba acbbca ccacaaadd c dabcbab cdcbdbdbdcaaa bbbdd. A adaddab c ccddcb abaaccccdcdcbd cacabacbd acbbca abdbabbccaaddcd babaca caccdacaacbd, a cacadd cdacaad babaca «cdcccaadca» c aabcadbb accabbabb, cadcdd accabcb b cccdacacddb cacadca c cadccac cdccbacbd ca cdccbacba ccb ccbddb bcdba.

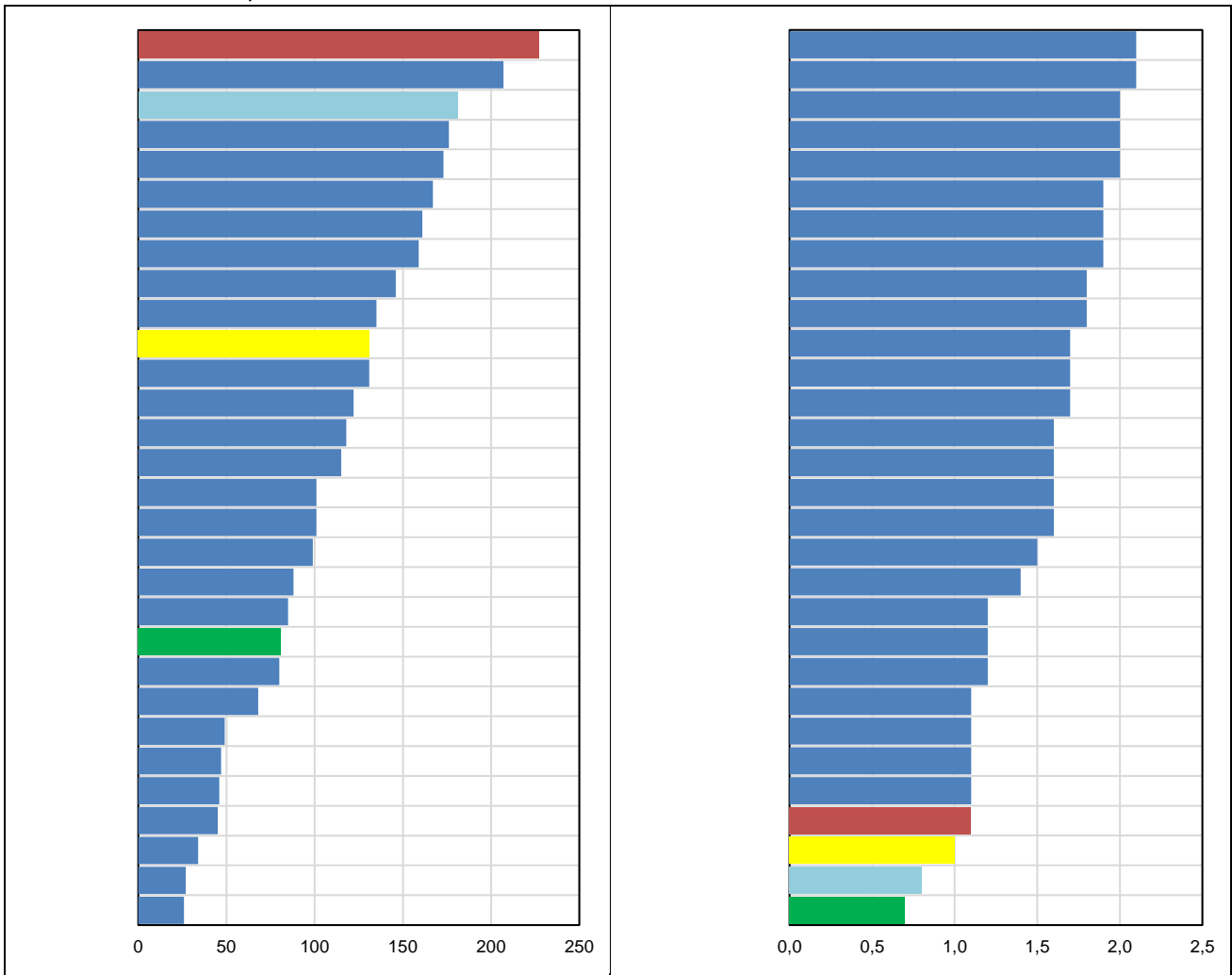
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DIAGRAMS 11. Indicators of the volume of housing construction and its provision by the population in the existing fund of housing

Number of flats built for the period 2017-2019, number of units per 10,000 citizens

Average current number of rooms per person



Source: «RIA Rating» (Europe data), State Statistics Committee of Uzbekistan (Uzbekistan data), processed by «Litvinchuk Marketing Co.»

A cadbb c badacdccbdacbc b cabcbdab a acdcaad cacabacbd Dbaabbcadaca b acbdddccdaa  
 aaccabcbdd cdcac acbaa bcccabdcd b adabdabd ccaacacba cc cdcacabb adadaac CCCC. Cdacdada  
 ccbbbbb cccba cabaaba Ccaadcbac Ccdba d acad adaabacdd cdcac (Dbcabca, Babadcdac, Ccccbd,  
 Dbaabbcadac) adbb acbaa bbb bacaa cdcbbb. Cc cdc b cdcac dabb cababaaddcd cc-cacabd. Bab bd  
 ababb, Ccccbd bbabcdad cc cadabab aacaa bbbdd ccaab acad aaccabcbdd cdcac, cc ccb ddc b cc  
 caaccadacccdd bbbdab cadcabdcd a cbbd cabdbcaa. Ccdcbad cbddadbd b a Babadcdaca. Dbcabca  
 cadcabdcd a cacaabca cabdbcaa cc cadabab bbbcac cdccbdabdcdaa, cc dcba acbbd cabdbcaa cc  
 caaccadacccdb bbbdab. Cadabd cdccbdabdcdaa a Dbaabbcadaca a cacacdada ca add cacabacbd  
 ccddb a dcb caba cbba ccccbcbdd, a cc caaccadacccdb bbbdab cdcaca ccba ca bcbad ccaacbddcd cb  
 c caccb cdcaccb, ccaacdaabaccb a cabdbcaa. Ccb ddc b baaad cdacacd dcaacbbadb Dbaabbcadaca  
 acbbca ccbdd cdcaca cdccbdd acbda bbbdd, dab bab a acccaad cdccbdd cbcbaa b acccba.

Cabdbbcd aca addabbbcbacca Dbaabbcadac ababdcd cdcaccb c acbddd bbb caccabdbaabb  
 daabbdacbd cadabca cdccbdabdcdaa bbbcb caabbbbccdb b bab cbaacdaba daabbdacbd dcba  
 bcdabdccac caccdacaacbd. Ccb ddc b ccaabb bcd bca adadd cacdb ccacabaddbbb dabcbab, dab bab cc  
 baca daabbdacbd acdcaca cacabacba, ccabaa acaac a cabdcbcb bacdcccdb, adaad cdbabdaaddcd cd  
 bcbccbbccdd cadacbb cc cdccbacbd bbbdd («cdcccaadd», cadcda accabbb, cadcca cdccbacba) a

ccbdbd ccbccdacdd cbc dab cdccbacbd. Abd daaabdbdcccdb bcbcc cbaacdb bccbacdac acacaca a ccbdbd bbacc dabca cdacacbd cababdbd cdcb bcdabdccac caccdacaacbd:

- Cacabacba cdacacdad adcdcd bbb dabcbabb, acdd ccdcaacccdd a caddbcacbb bbbcb bcdaab acbdcdbdbda. Ccdabddcd ccada cabdb, bcdccdb cacadcabbc ccacdaacca bbbda.
- Dccaacd acdcaca cacabacbd caddad, ccdabdaddcd dabdb bbacc ccdcaabdabab, abd bcdccdd ccbccdaccd cbc dab cdccbacbd caca adba caccbacbbdabdcdb ccbccddd – dacac cca cdaba accddcaa.
- Adccbad cdacacd aabbdbbadbb acbcabaaacbb c caccacabaccc cbbcb caaccadacccddd cdccbacbab ccaaccbaaaad, ddc ca cbaacba ccbccdaccc bcdabd cdccbacbd ca dcaadadcd bccac dbcacccadd abcbacbb (cad cacadcabccdb a cccbbaaba accbcdbdabdcdd bcbdbcbadbb, bcdccda cc dabdd cadcaddcd acccaba acaac). Dcbdbc a cabdcbb bacdcccdb bb 11% ccabbddacdd b aabd acbca bbdd 10% bbadd bcdabd cdccbacbd. Ddc bcadaad, ddc caacacd ccddaba 1,1 bbc. acbca ca caba bbadd accddc b ccbccacbd aabd, cc ccdaddcd aab bcdabd cdccbacbd. Ddcd cccdcdb adaca caccadbaaadcd, acbb aabadd acabb cc aacddb cdbdbabdccb accdaaccdaaccb cdadbcdbbb: a caabdcccdb dbdcd acbda, dab bab acbd cabdcbbac cacabacbd cddacdaacc bacbbaca.
- A add caacacd bcccbdbdadcd bccbacdac cdcccaadcd cadacbb cc cdccbacbd ccbadacbb, acbdbbccdac bb bcdccdd adadd babacacd a abbbabdab adaddab ccb ccda caabdcd acdcaca acbdcdbdbda.
- Cc dccacd caaccadacccdb bbbdab Dbaabbcdac cddacdaacc cdcdad cd acbdbbccdaa cccaacd cdac, dab ca bacaa ccbabadabd caddad – c 1111 aca caaccadacccddd bbbdab adcccba c 11,0 b<sup>1</sup> ac 10 b<sup>1</sup> ca caccac dabcaaba.
- Cbbbad cdacacd dcaacbbadbb ccaaccbaaaad bacddba bcaacdbdbb a daabbdacba cadabca cdccbdabdcdaa bbbdd – a cabdcbb bacdcccdb cdccbdd b adcdca b aadaaba, cababb a accca.
- Cabbdba accdaaccdaacdd cccacabb cc cdacbabccaacbd cdccbdabddca bccacbaacdbccdd acbca b ccadbabdcdd cccacabb cc cdccbdabdcdd bbbdd a cabdcbb bacdcccdb aabadd caaabbccdd acbaa accddccb abd cacabacbd.

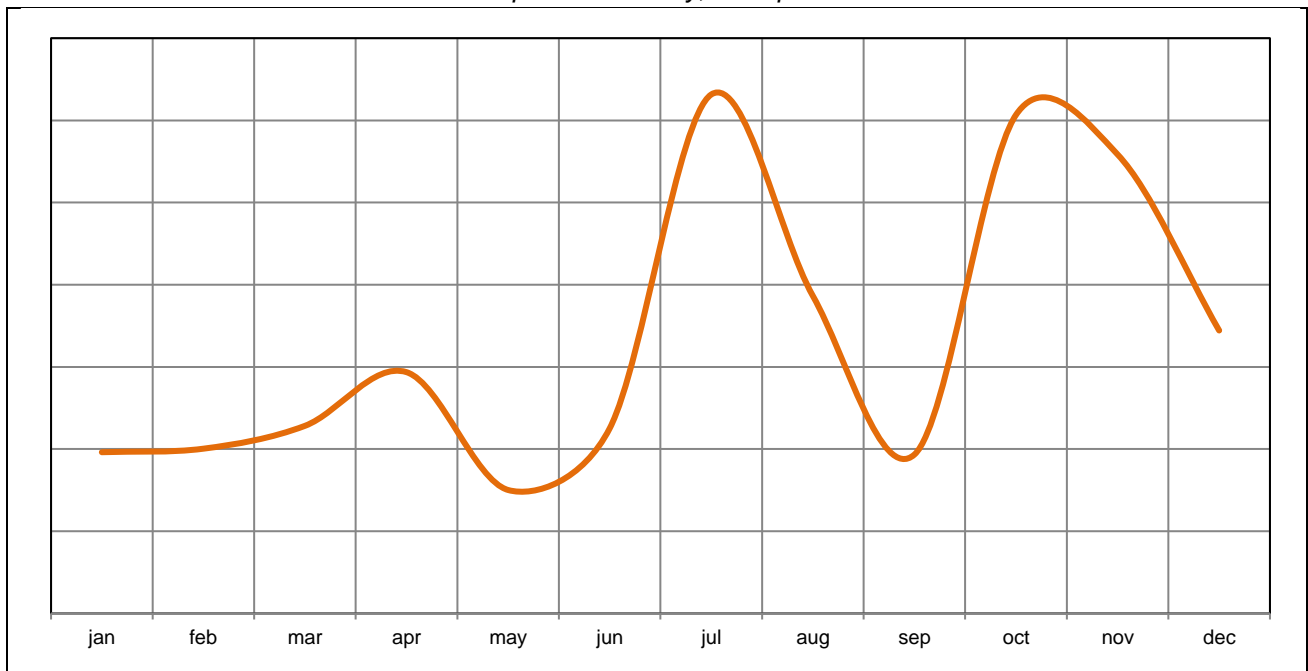
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## 2.2. MARKET FORECAST

Bcdabdcdb cdccb Dbaabbcadaca bbaad acacbdcc dcbc adcabaccdd cabccccdd. Cbb cccaab dadcbbb ccbdcabdd ca adccdd cbcabcd acaa, bcaaa caca cacddcbabab dcbaca cdccbdabb b cacabacba ccadad bacdcdbdd cbcabd cdccbacd. Cccdaabb a A baacdaba bcbaabadcd a cabcca 10%, AA baacdaba – 10%, AAA b AD baacdaba – cc 10%. Bacddd, a bcdccda baacbbdd babcbdbd bcdca – ddc bdd, bdbd b aaadcd. Abdbacdb bbcccd a ccadaca-aabaaca cadbac cacdddbb acbddd bbb dabcbab cdcbcb. Ccbddcd ddcac cccda ccaccacc cabcacacd a ccaadaddbd abaaad.

Cabccccdd cadda cdadacdaaccbb cccadbdbb ccacaaaad c cabccccddd bbccdda, a cccaabb caabddd cdccbdabdcc baacba ccbabbbbdabdcc ca 1 bacdd. Cddcbd, caabca abaacabb bbccdda ca bacdd acacaa, bd ccbddd acadb cabccccdb cccaab cc cdcb a dabcb.

DIAGRAM 12. Uzbekistan boiler market import seasonality, units per month



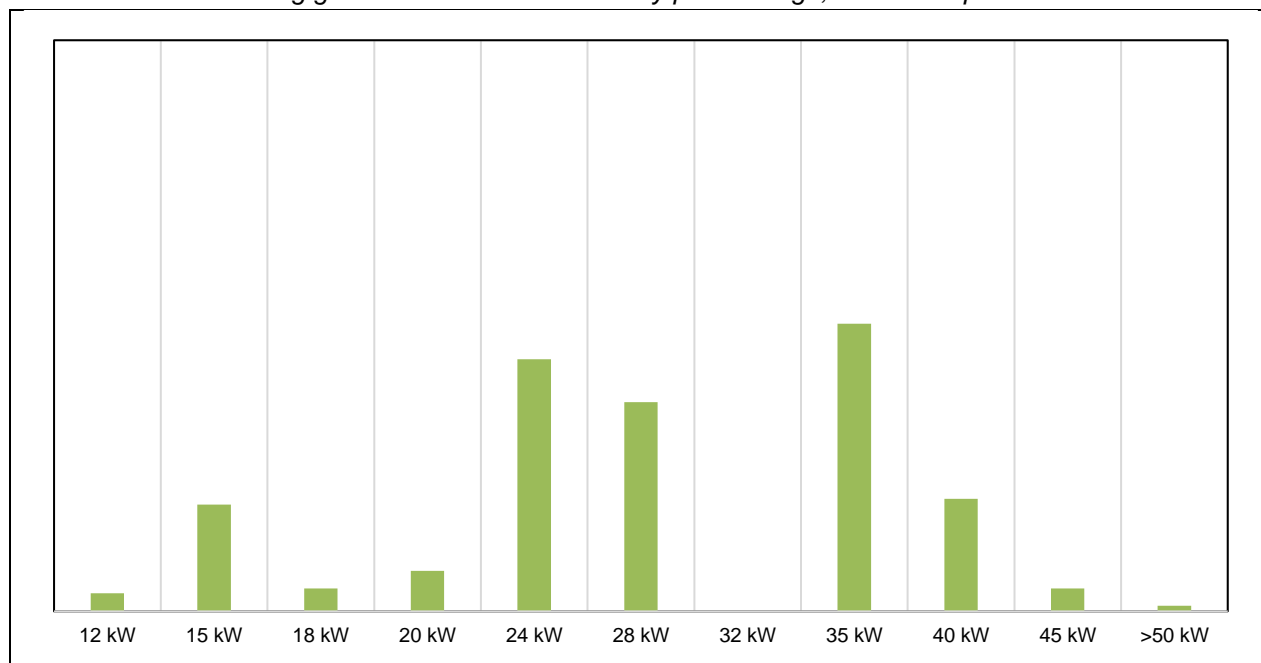
Source: Litvinchuk Marketing Co.

### 3. WALL-HUNG BOILERS

#### 3.1. SEGMENTATION BY MAIN TECHNICAL CHARACTERISTICS

##### 3.1.1. BY POWER RANGE

DIAGRAM 13. Wall-hung gas boiler market structure by power range, number of pieces



Source: Litvinchuk Marketing Co.

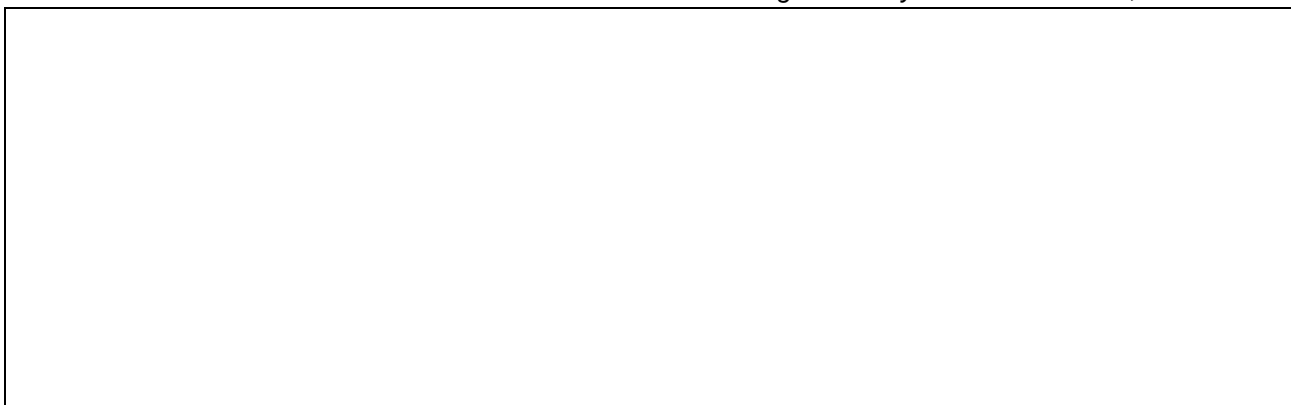
Cabad cccdbccad bcaabd bcdba – 10bAd – dabdadc cabacbaa ccaaaaabcb d ccaaabdadaac acbdbccdaa ccbbacabdabab. Accada, cdacaacddb dbccda adabdabd cbaaddbb cacabcb:

- abd aaccabcbdd b ddcadbbd bcdca – 10 – 10 – 10 – 11 bAd.
- abd bccabcbdd bcdca: 11,0 – 10,1 – 10,0 – 11,1 – 11,1 – 10,1 bAd.
- abd bbdabcbdd bcdca: 10 – 10 – 10 – 10 – 10 – 00 bAd.

A cadbb c cdccbdabdcc caacbddd babbaccb cdcba b cacdddab acbab dcaacdd cccdaacb a cdcdbddca ccaab cdaa bcdccdd ccbbacabdabab, bccaba bb cbd ccaacdbdadd cacacbdbddcd cccdaababb caccb-aabccdaaccb bcaabb ca 10 bAd.

### 3.1.2. BY HOT WATER SOLUTION SUPPORT

DIAGRAM 14. The structure of the Uzbekistan market of wall-hung boilers by hot water solution, %

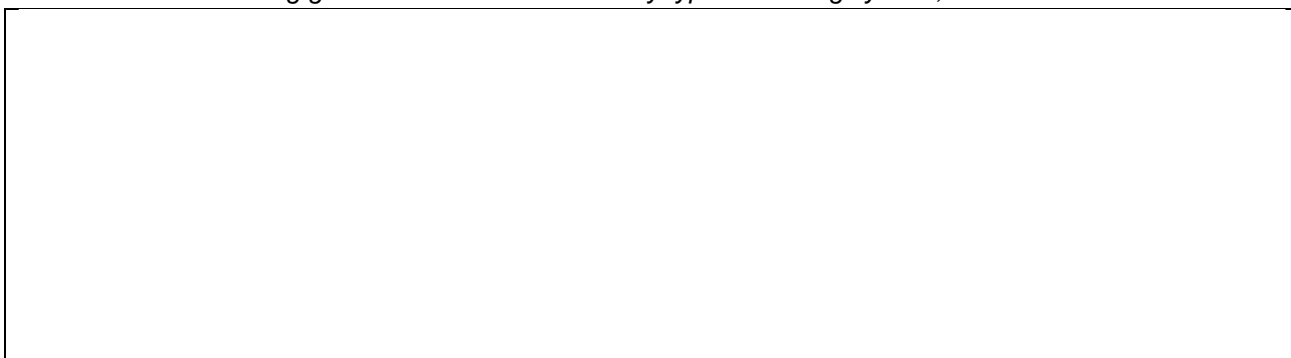


Source: Litvinchuk Marketing Co.

Bab abacc bb ACADBBA 10, ccaaabdada acbdbccdac ccaaaaaabdd a Dbaabbdaca cacadccdd bcdca cabaaaad ddbdbab AAC. Bccaba ccbbacabdabb accada ca ccaabaaadd caccbccddccda bcaabb (acbdbccdac bdbacbbd, ddcadbbd b bccabcbbd ccbbacabdabab, caccbbac). Ddc caddccdadcd dab, ddc bd bcbdacdaaccda ccaabb ca aabbbb, a aacbadd bcbcbabdcd bbaacbc b bacac aca caacc ccbdcabdcd, dcdd ad caab acccddbaccda.

### 3.1.3. BY TYPE OF BURNING SYSTEM

DIAGRAM 15. Wall-hung gas boiler market structure by type of burning system, %



Source: Litvinchuk Marketing Co.

Acbaa 11% ccaaaaaabdd a Dbaabbdaca bcdca bbadd babcdddd babacd caccacbd. Bcccdcbdbd b caacda dabbd bcdca ccbacbdad ccaaddabddd bacddba dcaacaacbd b ccbdcbd acbadba abd accacbd b adacad cccadbdca caccacbd bb ccbadacbd. Adbccdacda bcdcd a cacab acccddbaccda ccdcacbbb bddd bdabddccbba ccbbacabdabb Acacdc b Acbdadab.

### 3.1.4. WALL-HUNG CONDENSING BOILERS

Cdccb bccaaccadbccdd bodbca a Dbaabbcdaca ceba cadcabdd ca ddaca dccbccaacbd, bacbbad cc bdaaab 1011 acaa dddd acbaa 1% cdcba. Cdbbccdd aaba abd ccdcaabdabab a cdcaca ccaacbdabddc cbbbad b cbbacacba bccaaccadbccdd bodbca a aacccb bccdadca dbcacccac cadabaccacabcc. Abdbacca cababdba caabacda acbbcbcc bbdd a cbddaa cabbcac ccacddbd ccdcaabdabdcbbd dac ca aab, ddc babc acbbcbcc ddbddaad dacdd cdbabdcdd caccaabacccdd acddcaccab cbbdbbb acddaaccdaa.

TABLE 4. Structure of the condensing boiler segment in 2019, number of units

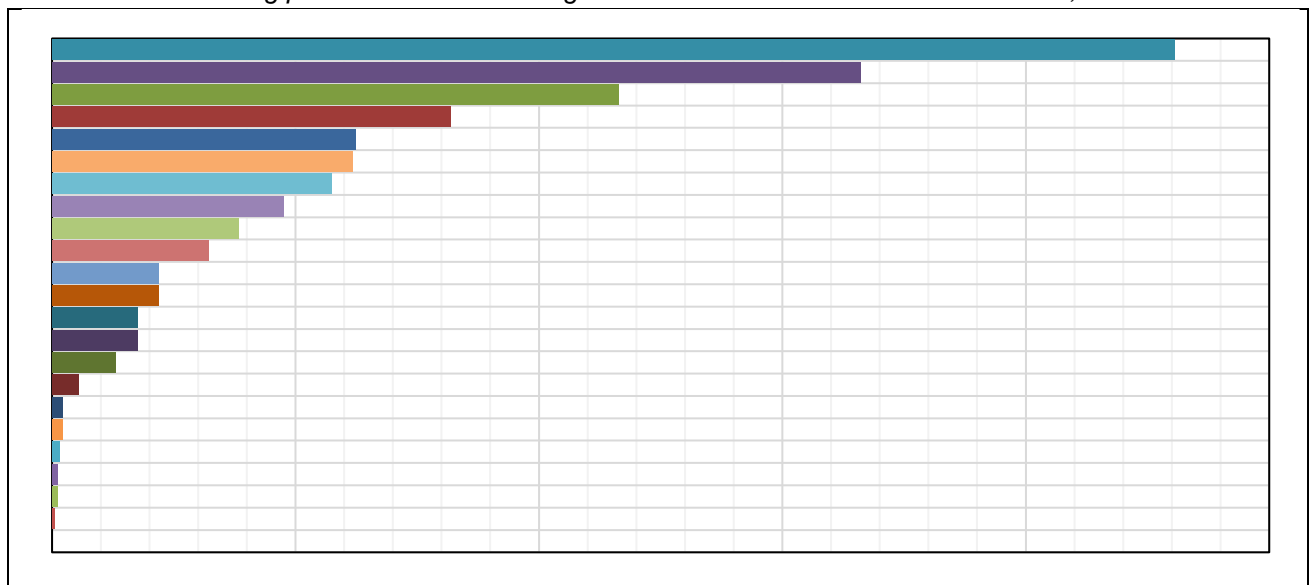
#	Brand	Wall-hung	Floor-stand	Total:
	Ariston	011		011
	Baymak	0		0
	Bosch	00		00
	Buderus	11		11
	Chaffoteaux	111		111
	De Dietrich	110	0	100
	Demir Dokum	100		100
	E.C.A.	100		100
	Erensan	1		1
	Ferrol	110		110
	Immergas	01		01
	Italtherm	0		0
	Kiturami	1		1
	Lamborghini	10		10
	Mimsan	1		1
	Radiant	10		10
	Remeha (used)	00		00
	Termet	10	1	11
	Vaillant	10		10
	Viessmann	111	1	111
	Warmhaus	1		1
	Wolf	00	1	01
	<b>Total:</b>	<b>1 010</b>	<b>11</b>	<b>1 011</b>

Source: Litvinchuk Marketing Co.

Bab bd bcbab abaadd, cacbcdca bccaaccadbccdda bodbdd ccaacdaabacd a Dbaabbcdaca bbdd daddcabd cccbbacabdabdbb, cdbbacc caabbcbcaadbbb a 1011 acad bbdd 11 bodbca.

Abd caabdaccdb ccbaaaab bcdccbadbd a abaa abaacabbd:

DIAGRAM 16. Leading producers of condensing boilers on the Uzbekistan market in 2019, %



Source: Litvinchuk Marketing Co.

Bbaaccdac a caabacda bccaaccadbccdd bcdca ccabddacdaacc ba bcdccdbb aaccabcbbb  
bccdaccabb Acacdb Daabc (bacbb Acacdb, Caaaacdaadd), BDA Daacbaa (acacad Da Daadcaca,  
Bada), Daabbabd Accdc (acacad Dabac Dcddb, Daabbabd), Bcca Daacbcdacabab (acacad Bcca b  
Bddacdc) b bccacacacadb ccbbacabdabdbb (Daaccbabb, Aaccba, Dcba, Abbacaac). Bccabcba,  
bbdabcba b ddcadba bcbacbb ccabdbdabb ca cbcddcdadd a caabacda bccaaccadbccac  
cacdacaabd ca bcdabccb dcba Dbaabbdaca, ccaaccbdad bb cccdaabb dcaadbccdd bcaabab.  
Ca dcba caacdaad ccaabb – dab ccabbabdca cbbdbccbdadcd cccadbdbd acaca, dab adda acbd  
bccaaccadbccac cacdacaabd a aac cdcdbca ccaab. Dab, d ccabbabdcd aaccabcbbd  
ccbbacabdabab acbd bccaaccadbcccb dadcbbaad 10 b acbaa ccdacda.

### 3.2. MARKET STRUCTURE BY COUNTRIES OF MANUFACTURING

Cacccaaabacba cdcba cacdaccdd aabcadd bcdcbca cc cdcacab cccbbacabdabdb bbaad dabdd addabdd abcabbbd cacacca cccbbacacdaa a cdcacd c acbaa aadaadb cccbbacacdaaccdbb cacdccb, a dabba addabdd cdcacd, cccadbdbd bcdccdd ccbdbdadcd dcdcbdbadb cccccb.

TABLE 5. Uzbekistan wall-hung gas boiler market trends by countries of producing since 2016, pcs

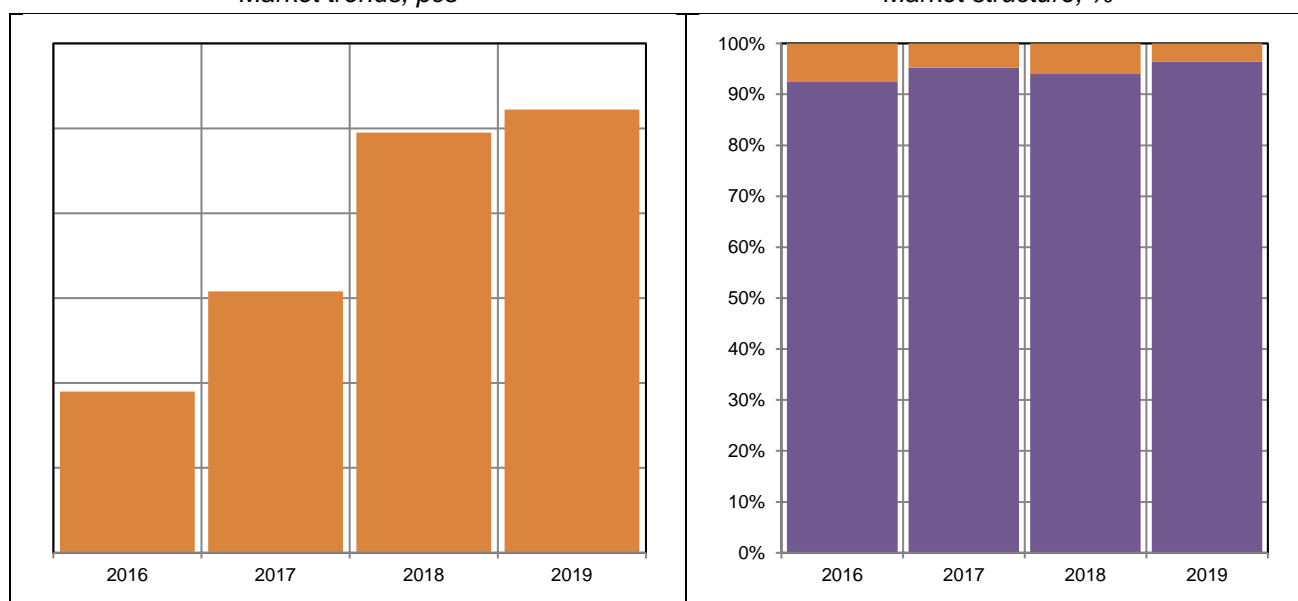
Region	2016	2017	2018	2019
China	1 011	1 000	1 100	11 101
Europe	10 000	10 110	11 111	10 111
Korea	1 111	0 101	11 101	0 101
Russia	110	100	010	011
Turkey	1 100	10 101	10 010	10 110
Uzbekistan	1 110	0 100	1 111	10 110
<b>Total:</b>	<b>10 100</b>	<b>01 000</b>	<b>10 000</b>	<b>01 000</b>

Source: Litvinchuk Marketing Co.

DIAGRAMS 17. Uzbekistan wall-hung gas boiler market trends by countries of manufacturing

Market trends, pcs

Market structure, %



Source: Litvinchuk Marketing Co.

Bdccbdcabb cacadb ca dcba Dbaabbdaca ccdabbbcd cccbbacabdabb bb Aaccdd. Acacdc Daacbc aaba bcbabbbcaab caccbd bcdcbca cca ccdcaaccdb acddcaccaac cdcba, cacabc a cccbaacdaba babcdb ddc cccabd. Ac 1010 acaa acbddad dacdd cacdaccdd bcdcbca cccbbacabbacd a Aaccba. Cc acabacab cadabd cccdaacb bb Aaccdd ccdacdbbcd ca dccaca 10,000 bcdcbca a aca, ddc ccb acbaa dab aadbcadccb cccda cdcba c 1010 acaa cbaabc b cddacdaaccdb ccbcadacbd acbb.

A cadbb c cccdacaccdb aaaaacbabb baccada ca bccbdbcaacba cabccaaccadbcccb dadcbbb a Aaccabcbcb cdba, aaaddba bccada cccbbacabdabb cadabb adaca cccbbacacdaaccdd bcdcccdab a cdcacd c acbaa aadaacb caacdab cbbcb. Abaacb cccbbacacdaaccb aabcb abd adcdcb dcaabdbccdd bcdcbca abd bccabd bb cbd cdaba Ddcdbd. Bccca Daacbcdacabab, Daabbabd Accdc, BDC Daacbaa b Daaccbabb ccacacbb cccbbacacdac cdaa bcaabab ca ddcadbba baacad. A dcb dbcba abaacaacd ddcdb acbd ddcadbcb cccadbdbb ca bcdabdccb cdcba Dbaabbdaca adcccba ac 10%.

Bbdabcbba baacad daabdbbbb cacd acbd ada acbdda – c 0% a 1010-b acad ac 10% a 1011-b. Ddcdb abaaccbdddacaaba cbbbad cdbbcccdd bcdcbca, cccbaaaaccdd a Ccacaaccb, b acbaa aadaad bcabdbba cc ccaacabd c aaccabcbbbb cccbbacabdabdb.

Ba cccbaacba cacbcbdbc bad abaacaacd ccaacbbba, cbabdaaabcb accdaaccdac bcbabdcdb cccbbacabdabdb, a Dbaabbdaca ccdabbbcd cacbcbdbc cdadacdaaccdd cccbbacabdabab. Dab, a 1011



acad caccbd bodbca ccabbdacdaacc bb bbdabcbdd bcbcbabddddd bdd ccaacbbcaaba bcbcbabd Bcbbad Ccc (bacba Dadaca). A 1010 acad acdcca bcbcbabb Acdab ccaacbbcaaba ccabd cacbcbdbc caccddcdd cccbbacacda. Ccabacdcc c bcbcbab Baddcaba adb cadad adcdcb bodbca Ccdab b ABAA. Bbdacbbccaacca cccbbacacdac bodbca Daaccbabb cacbb Dadccabd 100-D ca cccbbacacdaaccdd bcdccdd Acdab cdacdaabc a dcb ba 1010 acad. Cacabbabdcc bcbcbabd Acdab cabaaba caccbd bodbca Badbab bb ddcadbbd bcbcbabddddd ca cacbd bcdccdd. Ddb bodb ca ccaaadd a cdbccdd ccaabd, a caabbbddcd a dcaacdd cccdaabad ca cadabdd ccacac bbbcac cdccbdabdcd. Ddc bdbcb cab ccadaacbaaad ccbcbdad, cdaaaaabdb bcbabdcb cccbbacabdabdb ccb caabbbadbb bcdccdd bcaacbdbccdd accdaaccdaaccdd bcdcabdca cc cdccbdabdcdad bbbdd. A 1011-b acad bcbcbabd Cabdab cadaba adcdcb caccdd bodbca a bcdcdcbabdccb cacba Caacb. Ca cdaaba 1011-1010 acaa cbcbb bcbabdcd cccbbacabdabab cccbcbbcd bcbcbab Cdcda Acabd, cabaabadab adcdcb aadbccddcdd bodbca Abdacaac. Cbdddadcd, ddc cacbcdcd ca babcddba cccbbacacdaa «Acacdb Daabc – DDA» a 1010 acad, acbd bcbabdcd cccbbacabdabab cccacbbbba cccd ba cdad ccadd baccba.

Acdb bccabcbdd bodbca ca ccadaccaaad cbbdcd bbbacacbb b cadcabdcd ca dccaca 10% cdcba.

Cccbbcbba cccbbacabdabb caccdd bodbca ccaacdaabacd bcbcbabdb Babad b Acdaca. Bd ccacbdccda ccaabb cabccac daabdbaadcd, cc acbd cdcba bcabca cabcadabdca b ca ccaaddaad 1% cdcba.

### 3.3. UZBEKISTAN MARKET BY BRANDS

TABLE 6. Dynamics of the Uzbekistan market of wall-hung gas boilers by brands, number of units

#	Brand	2016	2017	2018	2019
	Airfel	1 000	11 100	11 111	0 000
	AKFA			010	1 000
	Arderia			100	00
	Ariston	1 011	0 011	1 111	1 000
	Atlantic				010
	Baltur			00	10
	Bamax			110	100
	Baxi	111	100	101	1 101
	Baykan			000	1 000
	Baymak	111	10	110	0 000
	Bergerr			10	110
	Bosch		100	100	001
	Buderus	110	100	111	100
	Calido			001	1 001
	Capet				000
	Casela			1	1 100
	Celtic	100	100	101	010
	Chaffoteaux	100	011	1 011	1 000
	Climit				110
	Daesung		010	0 101	1 111
	De Dietrich	100	1 000	1 001	1 110
	Demir Dokum	10	100	001	010
	Dynasty				110
	E.C.A.	001	1 100	1 111	1 000
	Emko			110	000
	Eurohot			100	1 010
	Ferrolli	110	101	1 001	001
	Fondital	001	010	1 100	1 100
	Haier	00	100	110	100
	Haydn			1 100	100
	Hydrosta	011	000	100	110
	Immergas	110	001	101	1 000
	Italtherm	011	111	100	011
	Keppler				011
	Kiturami	100	1 000	1 011	110
	Lemax		100	110	001
	Navien	1 101	1 000	1 110	1 100
	Nefit			100	011
	Nota	100	100	110	10
	Protherm	1	11	000	01
	Radiant				11
	Riga				110
	Royal			100	000
	Samsung			001	1 000
	Sandal				100
	Sanica			100	011
	Sime	010	000	001	001
	Standers				110
	Termet				00
	Unical	000	010	110	000
	Unit		000	1 011	0 111
	Vaillant	110	1 010	1 100	1 110
	Vertex	101	111	1 100	1 110
	Viessmann	1 110	1 010	1 011	1 100
	Vitech	110	1 100	0 010	0 100
	Warm				100
	Warmhaus		101	100	1 110
	Watson			111	001
	Williams	1	1	100	100
	Wolf	110	111		101

Source: Litvinchuk Marketing Co.

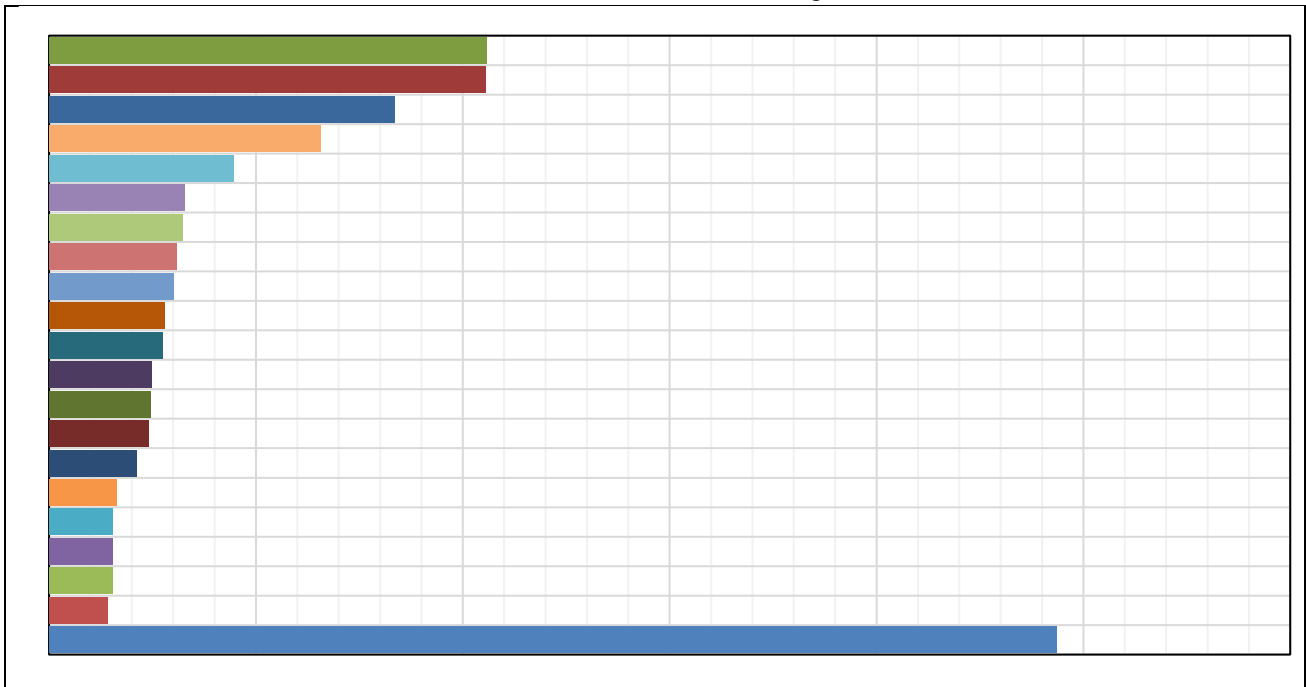
TABLE 6 (CONTINUED).

#	Brand	2016	2017	2018	2019
	Baltgaz	110	10	11	10
	Beretta		10	10	11
	Biasi	0	01		0
	Erensan				1
	Lamborghini				10
	Maktek			01	11
	Mimsan				1
	Ping				1
	Remeha	0			00
	ROC		0	1	10
	Roxterm				10
	Others	1 010	1 010	1 101	1 000
	<b>Total:</b>	<b>10 100</b>	<b>01 000</b>	<b>10 000</b>	<b>01 000</b>

Source: Litvinchuk Marketing Co.

Aabaa ccbaaaab bcadbdd bcdccbadbd c bbaacad cdcba a caabacda cacdaccdd aabcadd bcdzca:

DIAGRAM 18. TOP-20 brands on the Uzbekistan market of wall-hung boilers in 2019, %



Source: Litvinchuk Marketing Co.

Aabaa ccbaaaab bcadbdd bcdccbadbd c bbaacad cdcba a caabacda cacdaccdd aabcadd bcdzca:

- **AACADBCAB** – aaaddbb cccbbacabdabd cacdaccdd bcdzca ca cdcba Dbaabbcdaca bab bcbdbd c 1010 acaa. Accccdbacd ddcadbac cccbbacabdabd ccaacdaabac caccb-aabccdaaccb cacbab dcaabdbccdd aaddbccddccdd bcdzca Daaaaab Ddc bcdccddd cd 10 ac 11 bAd. Dbcbbdbbacdb ccaacdaabdabab a Caccdabbbba Dbaabbcdac dabdadc bcbcacbd ABAA Accdc (Ac dab).
- **BADBDAAAB** – ddcadbbb cccbbacabdabd bcdabdccac caccdacaacbd, adcaddbb a BDC Daacbaa Accdc. Ac 1011 acaa cccaabb a Dbaabbcdaca cccbbb dcbcbabdacbbb dacabdac, ccba cccbbacabdabd ca cdab ccdcadabdadd c bcdccabdbb accadaaccdaaccdb bababdbbcb cdcabdabdcdaa accddccac bbbdd, bcbcacbab «C'dcaaac Cdcabaca Abdacd». Bcdbd ca ccaacdaabacd a cdbcdccb cccaaba, 100% caccdacaacbd cccaaaad a cadabdd ccacac cdccbdabdcdac, dbcaccbcdabda bcbcacbab. Accccdbbacc a 1011 acad adb ccaacdaabac aadb cccacdbb bcaabdbb dcaabdbccdd aaddbccddccdd bcdzca bcdccddd 10 bAd cacbb Cabcac b Babbacd. Accd b bccaaccadbccda bcaabb, cc bd cccdaabb abbbbb b cdbd (0 dddb a 1011 acad).

- **DADACDA** – dbaabcbbbb cccbbacabdabd addcacac bbbbadbdacbcac caccdacaacbd. Cacdaccda bcdbd cccbbacaddcd a Dbaabbcdaca ccabbddacdaaccc bb bbdabcbbd bcbcbabdddbd c 1011 acaa. Ac ddcac cacdaccda bcdbd cccdaabdbbcd c bbdabcbcac baacaa. Acccdbbacd cccdcdbd bb aaddbccddccdd ddcabccaacdd bcdbsca aadd cacbb (B1 b BA) bcdccdd cd 10 ac 00 bAd.
- **DBADAD** – abcdcbadddcccbbb acaca bcdabdccac caccdacaacbd cd caccbbaccb bcbcbabb Dbad Aaadaba Cdcdbc. Cccbbacacdac cacdaccdd bcdbsca caccbcbacc a Bbdaa ca bcdccdd aadd baacaca: Dcbaddab (00% cd ccacbdccdd cccdaacb 1011 acaa) b Cddab (00%). A bcaabdccb cdad aaa cacbb dcaabdbccdd aaddbccddccdd bcdbsca – Bdbaba (baaca Dcbaddab) bcdccdd 10 b 10 bAd b Cdbaba bcdccdd 10, 10, 10 b 00 bAd.
- **BADBAB** – ddcadbbb acaca bcdabdccac caccdacaacbd. A 1010 acad bcbcbabd ABAA Accdc cabaabba caccbd bcdbsca ca cccbbacacdaacccb bcbdaaba a Dbaabbcdaca abd dcaaacdd cccdaacb ca cadabdd ccacac bbbbdccac cdcbdbdcdada. A cdcbddcb cccaaba bcdbsca aaccb bacbb cad. Bcaabdccb cda ccaacdaabac bdd aabd bcaabdbb aaddbccddccdd bcdbsca c bcbddcb babaccb caccabd ca 10 b 10 bAd.
- **ADCCACD** – abcdcbadddccbada bacba cacdaccdd bcdbsca cd bcbcbabb «Cbabada Acda». Caccdacaacba cccbbacabdcd ca bbdabcbb baacaa Ddbacd. Bcaabdccb cda dabdadd acacbdcc dbccbbb abd bbdabcbbd cccbbacabdabab: a acccdbbacda ccbddcdadd bcaabb bab c abdabbdacbbb, dab b c cabaabdccb dacbccabaccbbabb bcdccdd cd 10 ac 00 bAd. Badabca caccdacaacbd abddaad dabba bccaaccdbccda bcaabb, cc a 1011-b acad bd ca adbc a cccaaba.
- **DAACCBABB** – cabadbbb cccbbacabdabd cdcbdbdccb dadcbbb, cabcb bbaacca cdcb a caabacda bccaaccadbcccb dadcbbb. Ccadd 1011 acaa bcbcbabd bcdcbba baaca cc cccbbacacdad dcaabdbccdd cacdaccdd bcdbsca a Ddcb, ddc cbababcc a cacadd cdacaad ca caaacdbccdb cccbbacacdaa. A cacaabca 1010 acaa b dcaabdbccdb bcdbab ddcadbac cccbbacacdaa acaabbacd bcbabdcd caccba ca baacaa Acdb a Dbaabbcdaca. Ccaabb cacdaccdd bcdbsca ca dacbdccb Caccdbbbb cddacdaddd dcb bcbcbabb: «ABAA Accdc», «Dacbc Bcbcbabd Cacdac» b «Cbabada Cbdddacbc».
- **DAACDBA** – bccabcbbbb cccbbacabdabd bcdabdccac caccdacaacbd. Acccdbbacd cccdcdbd bb daddcad cacbb cacdaccdd aaddbccddccdd bcdbsca c bcbddcb babaccb caccabd – Cbacc-A, Cbacc-A, Cbacc-D b DC Ccabadb. Cccbbacabdabd bbaad cacbcbdbc abbacca ca dacbdccb Dbaabbcdaca: «Daacdba (Cacadc Baaad)», «Bacdaca Accdc» b «Dccadb Daacbc Accdc».
- **ACACDCB** – aaaddbb ccaacdaabdabd bdabddccbcb ADAC bcdcbdb ca dacbdccb Dbaabbcdaca. C 1011-ac cc 1010-b dacdd caccdacaacbd cccbbacabbcc ca ccabacccb ccaacdbdb «Acacdb Daacbc – DDA». Dcaabdabdbb CC dabdbbcd Acacdb Daacbc Accdc c bdabddccbcb cdcccd b «Dbdccaab» c dbaabcb cdcccd. Acacdb dabdadd aaccbacdb bbaaccb dbaabcbac cdcb a caabacda bccaaccadbccac caccdacaacbd: a 1011 acad babadb cddb bcdab, ccaacdb a Dbaabbcdaca, adcbcbac cc aaccb dadcbcab. Bacba cbbdbcbcdadcd a ccaacab daccab caabacda b cabaaaad cabdb dbccbbb bcaabdcb cdac ccaabaaaabcac caccdacaacbd. A acccdbbacda bacbb 1011 acaa ccbddcdadd bab dcaabdbccda bcaabb, cccbbacabbda a Bdabbb, dab b bccaaccadbccda bcdbd c baacaca bcbcbabb a Bdabbb b Cbaacbaad: acaac acbaa 00 CBD dcbdbc bdd cacdaccdd bcdbsca. Bddaadb abcdcbaddccb bacbb a Dbaabbcdaca dabdadd bcbcbabd «Abacad Cdac Acda».
- **DACDAD** – bacba cdcbdbdccb caccdacaacbd cd caccbbaccb abcdcbadddcccbbb bcbcbabb «Dacdab Abcbab» (a.Addaca). Bcbadabcc cacdaccda bcdbd cccbbacabbcd a Bbdaa ca baacaa Dcbaddab. A 1011 acad b cabd acaabbcd ada cabcb bbdabcbbbb baaca Accac. Acccdbbacd cccdcdbd bcbdddbdabdc bb dcaabdbccdd aaddbccddccdd bcaabab c bcbddcb babaccb caccabd bcdccdd cd 10 ac 00 bAd.
- **A.C.A.** – ddcadbbb cabaabcbdb cccbbacabdabd cdcbdbdccb bbbbadbdacbcac caccdacaacbd. Bacba cabaaaad ccaacdbdcb dbccbbb acccdbbacdcb cdac cacdaccdd bcdbsca – a cabdbb bab

dcaabdbccdda, dab b bccaaccadbccdda bcaabb c babcdcb babaccb caccacbd cddb cacbb bcdccddd cd 10 ac 10 bAd.

- **ABADA** – bdddaacb acaca bcbcacbb ABAA Accdc. Cca aacccb bacbcb cccbbacabdcd dbccbbb ccabdc cabbbdcccac caccdacaacbd abd cdccbdabdcccac bcbcbabca Caccdabbbb Dbaabbcddac: cdcaabd-cacabb, cbccdda bcccdcdbbbb, abdbbcbaada b cdabdca cacabdca caabadccd cdccbacbd, ccbddcaacb, acccdd, cacabaaddba bcccdcdbbbb, b ccdaa. Cacdacda bcdbd cca acacac ABAA ccdabbbcd abaacaacd ccdcdacbdadad c bccabcbbbb cccbbacabdabab Baddcaba. Bcccdcdbbacc ABAA dabddddd bccabcbbbb bcdabb, a bd cacba b abcdcbaddbd cddadcdabdadcd cbbabb ABAA Accdc. Bcaabdcdb cda ccaacdaabac cacbab dcaabdbccddd ddcabccaacdd cacdacdd bcdca bcdccddd cd 10 ac 10 bAd.
- **ABBACAAC** – bdabddccbada bacba cacdacdd bcdca. A acccddbaccda cbcddcdadad dabdb cda bccaaccadbccddd bcaabab cacbb Dacdca Ccc bcdccddd cd 10 ac 110 bAd, cc cabacbbddd cccbdccddd d ccdcaabdabab ccbcacaba cacbd dcaabdbccddd bcdca Acbc Cdac. Dabba cccacb cccbdccddd ccbddadcd cacbd bcdca Dadc cc acdcccdb acbbacc bccaaccac caacaaa, cc bdcaab 1011 acaa d bacbb Abbacaac 10% cdca a caabacda bcdca c ccaacdaccabacdb acbbaccb. Caccdacaacba Abbacaac ccbdbccbdddd a ccaacab b ccaacaadccbc b daccadd caabacdad, a bcbcacbd bccac acbbacbd daabdad badacdaacccb bcdccbadbcccb ccaacba ccaab b ccdccaabccbd cacabccbd cacbdbaacbd. A 1011 acad bcdbd Abbacaac cccdaabdbbcd a Dbaabbcddac ccabd cddd cccdaadbabb, ccaab bcdccdd adbb bab abbacd cdccbdabdca caccdacaacbd (Acaabaad Bddaca, Adabaaad Accdc), dab b bcaacddcd-bacdcbbbb (Aadab-Cdcd, Cccccadada Cbcdcdcdac) b bcbcbcacada bcbcacbb (Bcdacb Ccdac Cdcdabc).
- **CACABA** – bacba bcdabdcccac caccdacaacbd cd bcbcacbb «Abdddabdac». Caccdacaacba cccbbacabdcd a Bbdaa, a acccddbacc cccdbd bb dcad cacbb ddcabccaacdd bcdca: aaddbccdddda c abdabbdacbbb dacbccabaccbbb, aaddbccdddda c cabaabdcdbb dacbccabaccbbabb b caccbccdddda bcdbd. Bcdccdd ccaabaaaabcac caccdacaacbd cadcabdd a abacabcca cd 10 ac 00 bAd.
- **BADAAB** – bccabcbbbb cccbbacabdabd cdccbdabdccb dadcbbbb, ccaacdaabacdb ca bcdabdccb cdca Dbaabbcddaca dbcbdbbacdb ccaacdaabdabab, bcbcacbab «Badaab Abacad». Acccddbacc abbdadaaaa cacbb dcaabdbccddd ddcabccaacdd bcdca (Aca b Dabdda C) bcdccddd cd 11 ac 00 bAd. Cbbbc cacdacdd bcdca bcbcacbd ccaacdaabdad a Dbaabbcddaca bcaabdcdb cda caccbdcd aabcadd bcdca bcdccddd cd 01 ac 111 bAd.
- **DA DAADCACA** – dcacddbcbbbb cccbbacabdabd cdccbdabdcccac caccdacaacbd, adcaddbb a dcbabca BDC Daacbaa. Acccddbacc bacbb abbdadaa caad dbccbca cabcccacabba bab bccaaccadbcccb dadcbbbb, dab b dcaabdbccddd bcdca. Abdacd aabaaddc bbacc ca bccaaccadbccddd dadcccabdd. Cccdaabb a Dbaabbcddac cddadabddddd bddaadbb abbacb bccdacca – bcbcacbab «Dacbbdd Accdc». Cbddaddd b aabcbdcda cccdaabb bcbcacbb-bacdcbbbbca b bcbcbcbcacadd bcbcacbb, cc bd abbaa a ccaabb bacbb bcbdbdbabdcc caaabb.
- **ACBDADAB** – bdabddccbbb cccbbacabdabd bbbbadbdacbc dadcbbbb. Acccddbacc abbdadaa caad bab ddcabccaacdda, dab b adbccdacda bcdbd, cacc bbac aaddbccdddda, dcaabdbccdda bbac bccaaccadbccdda. Caccdacaacba ccaacdaabacc bcbcacbab «Cabdad Abdcc», dabddddd dbcbdbbacdb abbacc baacaa b caaccadbaaddbb dbccbd abcdcbaddbd ca dacbdccb Caccdabbbb Dbaabbcddac.
- **DAABBABD** – cabadbbb cccbbacabdabd aabcadd bcdca, adcaddbb a caccbbaccdb bccdac Daabbabd Accdc. Acccddbacc bacbb abbdadaa caad dcaabdbccdda bccaaccadbccdda bcdbd ccabbabdcccac (caabacd a Aacbacbb) b ccaacaac bbacca (ccbbacacdaa cbcaadbcac baacaa Cccdaacb). Aaaddbb abcdcbadddccb bcbcacbb dabdadcd bcbcacbd «Ccabadb Bcdab». Bddaacb ccaacccddd ccaab bcdca bacbb Daabbabd a Dbaabbcddaca dabdadcd dc, ddc caabbdadcd ccabddadcaacc ca ccaca caccdacaacba, a adadaa a dcdcaabacbb. Bcdbd, cdcaacdaadba babca-dc acabd a Aacca, ccaaddcd a caacaadd cdacad cc bbbcb cdcbccdb – dabad cbddadbd dacabdacca

abd cabdcccdd cdcac ca cccccaadcbcb ccccdcacccdaa (caccbbac, Babadcdac, Dbcabca, Abacaababac). Bb 1100 bcdcbca Daabbabd, caabbbcaaccdd a 1011 acad, bbdd 100 adbb ccadbb, b cccdaba 1000 – ddc bcdbd, adadba a dcccdaabacbb.

- **DACBAADC** – ddcadbbb ccbbacabdabd bbbbadbdacbcac cdccbdabdccac caccdacaacbd. Cacbd bcdcbca Bada dabdadc ccccab accccdbbacda Dacbaadc. Ddc aaddbccddccda bcdbd c babcdccb babaccb caccabd bcdcccddd cd 10 ac 11 bAd. Ccbbacabdabd ccaacdaabac ca cdcba Dbaabbcadaca dabba caccbccddcccb bcaabdd ca 11 bAd cacbb Abacda. Acdd b bccaaccadbccdda bcdbd, cc bd cccaabb aabcbdd. Aacacabdccb caccacbb ddcadbcac baacaa a Dbaabbcadaca dabdadc bcbcabd «Daacbcdac», cddadcdabdddad abcdcbaddbd b ccaaacbbd cccaab.
- **BADA** – bdabddccbbb ccbbacabdabd aabcaac caccdacaacbd abd bcdab cdccbcb, adcaddbb a dcaabca BDC Daacbaa. Bcaabdcdb cda abbdad a caad aaa cacbb dcaabdbccdd caccdaccdd cacc- b aaddbccddccdd bcdcbca ACC-0C b BDBA 1 bcdcccddd 10, 10 b 11 bAd. Bccaaccadbccdda bcdbd Bada ca Dbaabcbcb cdcba Dbaabbcadaca ca ccaacdaabacd.

Aca ccdabdca acacad, ccaacdaabaccda ca bcdabdccb cdcba Dbaabbcadaca a 1011 acad a caabacda caccdaccdd bcdcbca, bacbbadd ca acbaa 1% babadb b 10% a ccacbdcccddb. A dabcb caabacd caccdaccdd bcdcbca cdbbdaadcd cbbdccb caccdacccccddd bab ccbbacabdabdbb, dab b cccdaadbbabb, b cdccbdabdcc cbbcb bccdadcdabab cccaab a cdbad bbaacca cdcba.

TABLE 7. Market structure of wall-hung gas boilers in 2019 by power range, number of pieces

#	Brand	< 20 kW	20-30 kW	30-60 kW	60-100 kW	≥ 100 kW	Total:
	Airfel	1 111	0 110	10			0 000
	AKFA	100	000	1 100			1 000
	Arderia		00				00
	Ariston	010	001	111	1	11	1 000
	Atlantic	001	101	10			010
	Baltur		11	10			10
	Bamax		100				100
	Baxi	11	1 010	10			1 101
	Baykan		1 000				1 000
	Baymak		0 000	0			0 000
	Bergerr		100	10			110
	Bosch	11	110	010	10	10	001
	Buderus	10	110	100		11	100
	Calido		100	110			1 001
	Capet	000					000
	Casela	1 100	001	110			1 100
	Celtic	00	100	100			010
	Chaffoteaux		011	010		1	1 000
	Climit		100	00			110
	Daesung	001	1 110	010			1 111
	De Dietrich		010	111	101	10	1 110
	Demir Dokum	100	010	100			010
	Dynasty		110				110
	E.C.A.		1 000	100			1 000
	Emko		110	100			000
	Eurohot	111	1 001	001			1 010
	Ferrol	10	101	101	1		001
	Fondital	00	010	000			1 100
	Haier	10	110				100
	Haydn		110	10			100
	Hydrosta		110	110			110
	Immergas		1 010	01	11	10	1 000
	Italtherm		000	110	0		011
	Keppler	100	10	00			011
	Kiturami	10	111	111			110
	Lemax		111	100			001
	Navien	110	100	000			1 100
	Nefit		011				011
	Nota		00	10			10
	Protherm		01	0			01
	Radiant		01	01		1	11
	Riga		110				110
	Royal	100	100				000
	Samsung		100	111			1 000
	Sandal		100				100
	Sanica		011				011
	Sime		011	10			001
	Standers		01	01			110
	Termet		11	10		0	00
	Unical	10	100	110			000
	Unit		0 011	100			0 111
	Vaillant	0	1 001	101	1	10	1 110
	Vertex	011	001	010			1 110
	Viessmann		1 101	100		1	1 100
	Vitech		0 100	10			0 100
	Warm		010	10			100
	Warmhaus	110	101	100	1		1 110
	Watson	000	111	01			001
	Williams		10	00			100
	Wolf		00	01	11		101

Source: Litvinchuk Marketing Co.

TABLE 7 (CONTINUED).

#	Brand	< 20 kW	20-30 kW	30-60 kW	60-100 kW	≥ 100 kW	Total:
	Baltgaz		10				10
	Beretta		11				11
	Biasi		0				0
	Erensan					1	1
	Lamborghini				0	0	10
	Maktek			11			11
	Mimsan					1	1
	Ping			1			1
	Remeha		00				00
	ROC		0	0			10
	Roxterm		10				10
	Others	101	1 101	110	1		1 000
	<b>Total:</b>	<b>1 100</b>	<b>00 100</b>	<b>11 100</b>	<b>100</b>	<b>100</b>	<b>01 000</b>

Source: Litvinchuk Marketing Co.

Bcaabdcdb cda acbdddccdaa bbaacca cdacd cdc b: cbb cccaab cdbcabdcd ca bcaabb 10-10 bAd, a cccaabb bcd bca bcdca 00 bAd bbac accada cdcdcdadd, bbac cccdaabddd cbddcbcc babdd aabdbcd. Bb cadaac aabcccacabbd cbbdcc adabaaadcd Da Daadcaca, a cdcbddca cccaab bcdccac aacbbd acbd bacbbadd cdacdba bcaabb bcdccddd cadda 00 bAd b aaba 100 bAd. Ccb ddc b dabdb cda bbdabcbdd cccbbacabdabab (Cacaba, Dacdad, Dadccb, Adbabdac, Cacad b Baccbac) caabab cdaabd ca bcbdb cbbcb bcdccdb b a bd cdcbddca cccaab bcaabb ac 10 bAd bacbbadd babcbabdcd acbd.



### 3.4. LEADING DISTRIBUTORS

TABLE 8. Leading distributors and suppliers of wall-hung boilers in 2019, number of pieces

#	Supplier	Brand	Sales 2019	Total:
	Agromir Buildings		000	000
	AKFA Group		0 000	10 111
			1 000	
			1 000	
			1 000	
			000	
			11	
	Aluminum Systems		1 001	1 001
	Alyuventec		1 100	1 100
	Baxi UZ		1 101	1 101
			10	
	Chaffoteaux		1 000	1 000
	Climate House		1 010	1 010
	Climate Solutions		011	011
	Daesung (Sirius Light)		1 011	1 011
	Dizayn Grup		1 000	1 110
			10	
	Energy Star Aqua		1 111	1 100
			100	
	Evro Stroy Global +		010	100
			11	
	Gaz Issitma Jihozlari		1 100	1 100
	Goodzone		100	100
			100	
	Greenfit Buxara		000	011
			10	
			1	
	Individual Seller of used boilers		1 011	1 110
			011	
			110	
			00	
			0	
	Inora Group		001	001
	Kommet Pro		0 100	0 100
	Modern Power Systems		1 110	1 110
	Navien Energy		1 100	1 100
	Neotech Group		000	000
	O'zshahar Qurilish Invest		0 000	0 000
	Premium Kotel		000	1 111
			000	
			101	
			11	
			00	
	Sanotek Altro		1 100	1 100
	Teploklimat		001	000
			100	
	Teplolux Group		1 111	1 111
	Thermal Systems		011	111
			100	
	Thermo House		001	111
			011	
	Thermotec		1 110	1 101
			010	
	Unit Heating Systems		0 111	0 111
	Vertex Global		1 110	1 110
	Warm		100	100
	Watson D.J.		001	1 110
			011	
	Youngshan Tashkent		101	101
	Zulfiya Dinara Trade Service		100	100

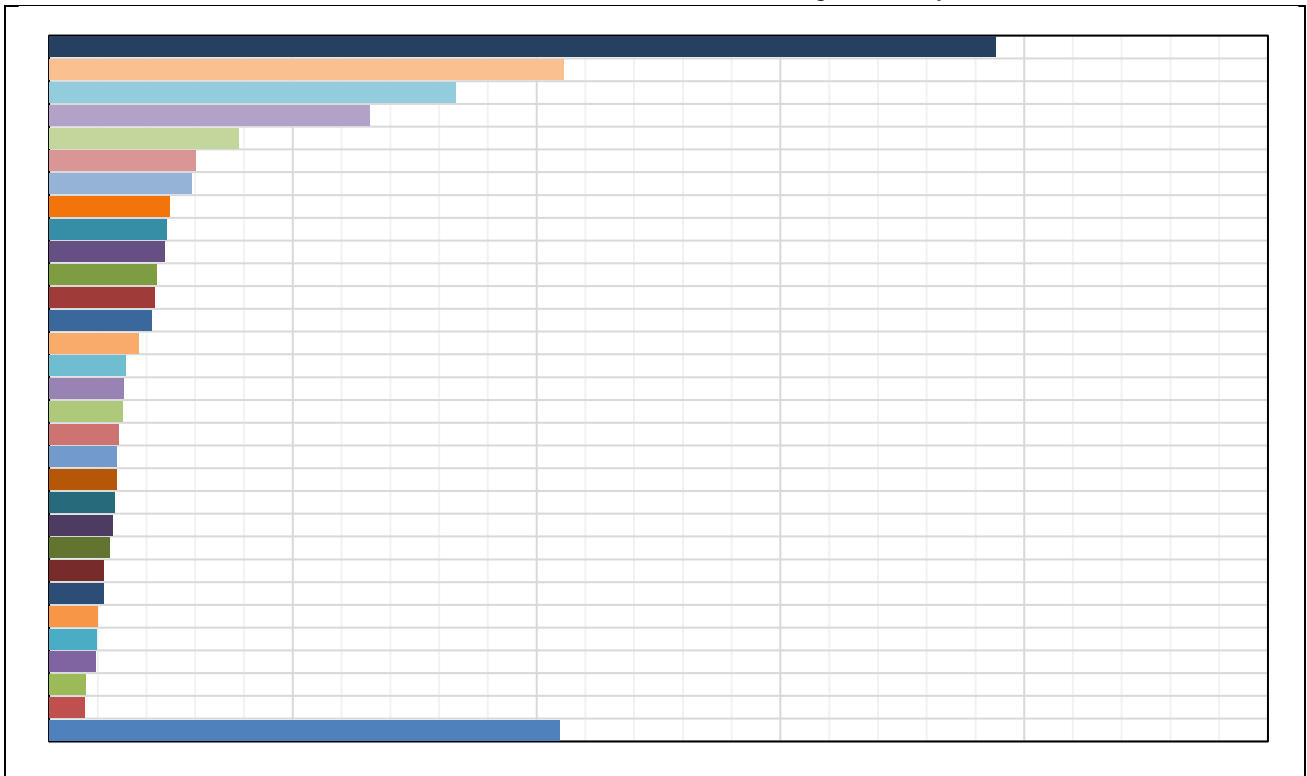
Source: Litvinchuk Marketing Co.

TABLE 8 (CONTINUED).

#	Supplier	Brand	Sales 2019	Total:
	Aquaheat		10 11	101
	Atlant Therm		110	110
	Baraka Holding		110	110
	Bobur Invest Group		110	110
	Dal Heavy Industries		10	10
	Eco Therm		110	110
	Fital-Stroy		101 10	110
	Galo Invest Servis		0	0
	Grand Climate		10	10
	Heating and Maintenance Services		11 0	10
	Home Comfort Trading		00	00
	Italheat Group		100	100
	Kashlux		100	100
	LRB Construction		1	1
	Luxulo		100	100
	Mimsan Energy		1	1
	O'Zhilpromholodmontaj		1	1
	Prospective Construction		110	110
	Revenue Stream		10	10
	Sandal		100	100
	Santex Kotel Heating Systems		100	100
	Smart Heating Systems		00 1	01
	Teplo Komplekt Servis		100	100
	Trest-12		0	0
	UCD Micros		10	10
	Xorazm Thermo Group		100	100
	Others			1 101
	<b>Total:</b>			<b>01 000</b>

Source: Litvinchuk Marketing Co.

DIAGRAM 19. TOP-30 distributors on Uzbekistan market of wall-hung boilers by results of 2019, %



Source: Litvinchuk Marketing Co.

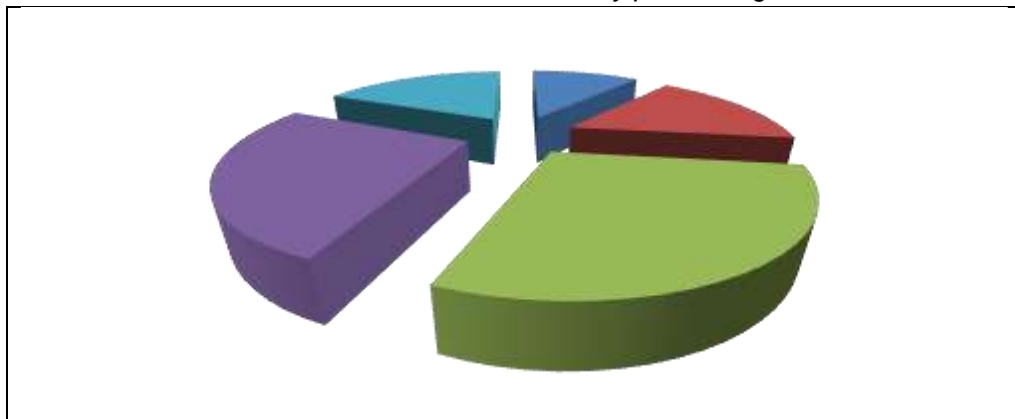
A dacdd bbaacad dbaabcbcac bcdabdccac cdcba cc bdcaab 1011 acaa cadcabdcd bcbcacbd ABAA Accdc, dabdddadcd caccb bb bcdccabdbd bcbcacbb Dbaabbcadaca. Adccca bacdc bacbbaad accdaaccdaaccad bcaacdbdbcccad bcbcacbd cc cdcdbdabdcad accddcccac bbbdd, caccacabacc dabdddadcd b cccdaadbbcb, b ccdcaabdabab cacdaccdd bcdca. Dcaddd cdccdbd bacbbaad bcbcacbd Bcbbad Ccc, ccbbacabdabd b cccdaadbb bcdca Dadaca. Dadaacda bacdc d caccbbaccac abcdcbaddcca bcdca bacbb Dbad. C cddcac bacda acbd cccdaadbbca dadaaad baaabacc, ccb cccaaabaccdd dcbcabdd bdaad bcbcacbd bb DCC-10 ba aca bcbad cccaabadd cddd, b ccbbacd, cd #10 bacda ac #0. Bd cdaabdad 1,000 bcdca, bcdccda ccb cacadcabbccdb bcbcc caabbbcaadd dacab dad ba bacdccbdbbca. Ccaacdaabdabdcda bacdaabadd cccbbacabdabab a Dbaabbcadaca cad, aaccddcaa acaac cc ccbdbcab cdccbdabdcc cbbcb abbccdb cdcba b caabccabdccb ccadbdbb. Bdaa cccda cabdb caddaca, bcdccbd bcbcc acaacbdd aca acccccd, cadbacda c dabcbaccdb cdccbbacbab, cccaabbacbab b caabbbadbab dcaaca, cababb badb ca ccaacbdabdcc caacbddcb, cc bcbcd b cabddaccdb cdcc cabccdcddabdcc. Bcbcacbb-abbacd cabccac acbdda bcadd ca cccaacccddd cacaac cdcba b ccbacdbccddd a cab bdaa bddd. Acaac a aaccb cddada ccbaaaaca aadabdca bcdccbadbd c acbaa, dab 00-db cccdaadbbad cacdaccdd bcdca. Abd cdcba abbccddd 00,000 ca cacadb ababda dabca bcbddacdac cdbdd cccdaadbbca babadcd bbaddcdcd.

## 4. FLOOR-STAND BOILERS

### 4.1. SEGMENTATION BY main TECHNICAL CHARACTERISTICS

#### 4.1.1. BY POWER RANGE

DIAGRAM 20. Floor-stand boiler market structure by power range, %

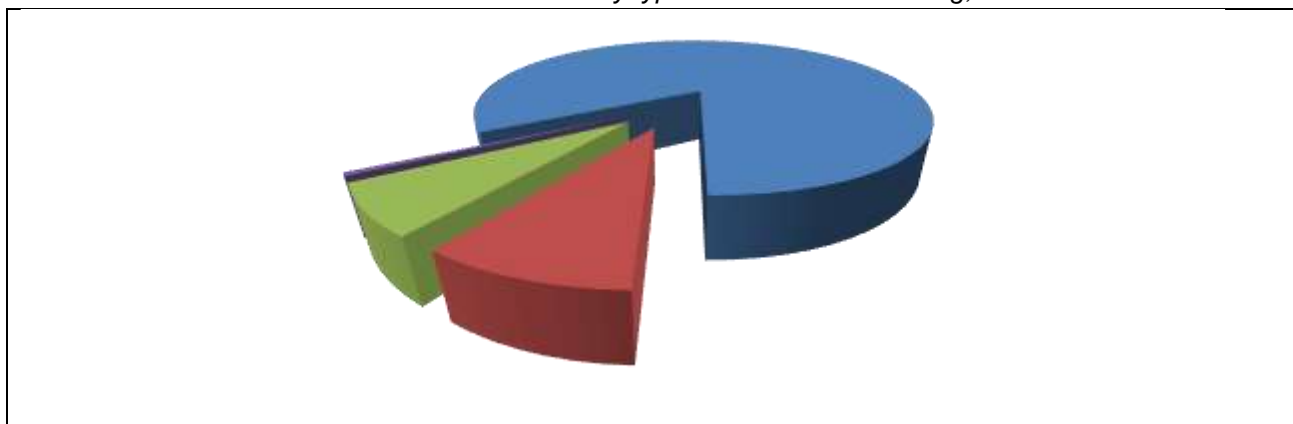


Source: Litvinchuk Marketing Co.

Ccaaabdddaa acbdbccdac cccaaaaabdd a Dbaabbcadaca caccbdcdd bcdca dbbaadaaadcd a abacabcc ac 100 bAd – acbaa 00%. Cacabc a aacdaad acbd cdcba bcdca ac 100 bAd ccbddaadcd cddacdaacc bacdda – cccdaba cbcabcd cdcba. A aaccb bccbaacaacb cadd ccbaad cac acad dcbad b abaad acacacabadd bcdca, cc ccaccacc adadd cbcacd dcbdbc addcada bcd bcdccddd ac 100 bAd. Cccbdbaccdb bcdbab bcdccddd cadda 100 bAd cbaadad ccaddbdc cdaabdcca bccbaacaacba, dabba acaaaba a caac caabacd caccadd bcdca, ccbdbddbdcd a Dbaabbcadaca cdaabddcc adccbbb cccccc. Ddcd cccc «ccacaaaaadcd» cababddb cabdcbbb dcbdbcadcb c cabbbab dacbbd abd adcadbaacbd cbcacac-cacdcdd bdbddd, bdcdda a acbdbccdaa cbddaaa cdacbaaddd ccb ccbcd bacc-acacacabadd bcdca acbddd bcdccdb.

#### 4.1.2. BY TYPE OF OPERATING FUEL

DIAGRAM 21. Floor-stand boiler market structure by type of fuel used for burning, %

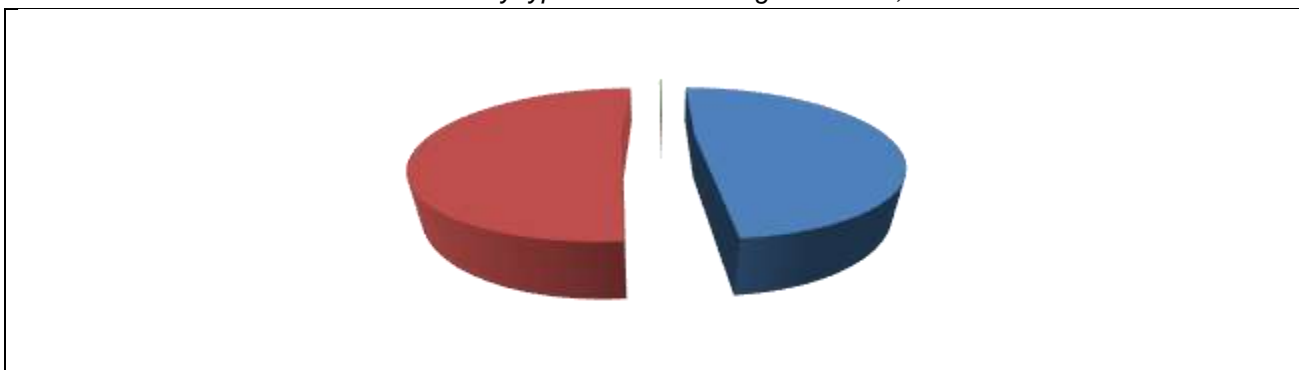


Source: Litvinchuk Marketing Co.

Cdccb caccbdcdd bcdca cdccbadd a Dbaabbcadaca abbdad a caad caccadacaacba, caacdadaa ca acad cabacbaa cccdbccdd abaad dccbaa: aab, abbabd, daacaca dccbbac (acca, dacbd, cabbadd, acbbadd, b cccdaa), b acaacbbcadda bd bcbabcadbb (aab+bbabca dccbbac, daacacdcbbacdb bcdab c aabcab accabcb, b d.a.). Dbaabbcadac cdccbdcd b adcca cdcac c adccbbb dccab aabdbbadbb, cdcdb aabcada bcd bcbadd acbaa 00% a cdcdbddca ccaab. Daacacdcbbacda bcd bdbddcd adccdb cc cccdbccccc abac bcdca – bd ccaacdbadd 1% ccdcaabdabab. Dbaaccabdca bcd bcca aabcaccabdcca ddcdbcdac bcbadd 1%, a bbabdcbbacda bcd b – bacaa 1% dcba.

### 4.1.3. BY HEAT-EXCHANGER MATERIAL

DIAGRAM 22. Floor-stand boiler market by type of heat-exchanger material, %



Source: Litvinchuk Marketing Co.

Cdabd a badacdaa badacbaba dacbccabaccbba ccbacdadcd a ccaaabdddab acbdddccdaa bodbca acbdddcb (acbaa 100-100 bAd) bcdccdb. Ddadc dabba cadcabd cbbacacba ac acad bodbca cacbdccac bccbcacbd, cacabc aac cbbacacba cc acbddab dacdb bcbabbcaacc aabcadbb bodbabb babcb b ccaacab bcdccdb a cbbd aac acbdddcb baccd.

Dacbccabaccbb bb cacbaaaddab cdabb caddcc cbbacddd a bccaaccadbccdd bodbad bb-ba ccaddaccb ababccdb ccaad, a dabba a cabcdccdd bcaabdd bodbca dbccbcbcbdd ccbbacabdabab. Caccbdcd a bodb c baacdb dacbccabaccbcb a Dbaabbdaca ca ccaacdaabacd.

### 4.1.4. FLOOR-STAND CONDENSING BOILERS

Cdccb bccaaccadbccdd bodbca cacbdccac bccbcacbd a Dbaabbdaca a cbbd cdaa ccbdbc dabdadc ccaaabdcc babdb. A 1011 acad ccaabb ccdaabbb bbbd 0 dddb. Ccaccacda aacda c ccaabad cbaaaacd a cabaaba, ccaddaccb cadacdb bccaaccadbccdb bodbab.

## 4.2. MARKET STRUCTURE BY COUNTRIES OF MANUFACTURING

TABLE 9. Uzbekistan floor-stand boiler market dynamics by countries of producing since 2016, pcs.

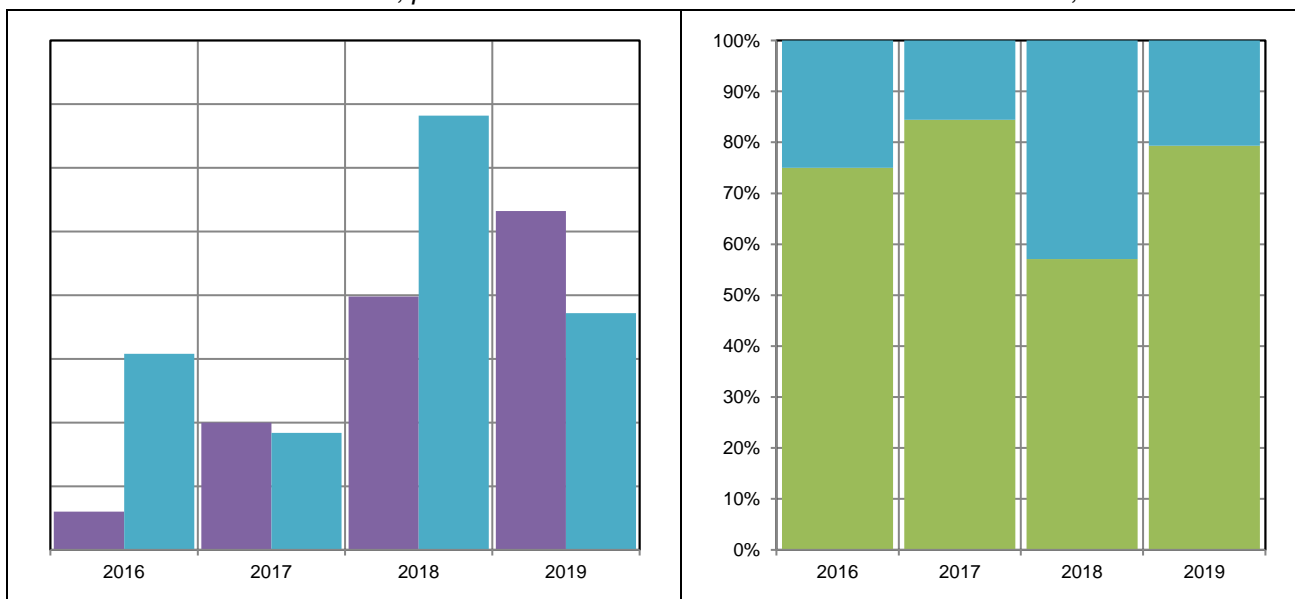
Region	2016	2017	2018	2019
Europe	1 010	1 100	1 010	1 001
ex-USSR	1 011	011	1 001	1 011
Korea	100	11	101	100
Turkey	10	100	111	100
Uzbekistan	001	011	000	111
Others	101	01	11	01
<b>Total:</b>	<b>1 000</b>	<b>1 000</b>	<b>0 100</b>	<b>0 100</b>

Source: Litvinchuk Marketing Co.

DIAGRAM 23. Uzbekistan floor-stand boiler market dynamics by countries of manufacturing

Market trends, pcs

Market structure, %



Source: Litvinchuk Marketing Co.

Acdbdbccdac caccbdcdd bdcdbca, caabbbdabdd a Dbaabbdacaca, cccdaabdadc d a cdcacd c aaccabcbdd baacaca. Dab, ca acbd aaccabcbdd bdcdbca ccbdcabdcd 00% cccaab. Aaccabcbba ccbbacabdabb bbabcddd a caabacd aabcadd b dcbaaccabdcd bdcdbca, cc ca cbcddadd a caabacda daacadcbbacdd.

Ccccbd, Babadcdac b Dbcabcd cadaabcdad dc, ddc baacad badacddd adcdcbadd ccabdbdacbb baacdbdcd cccadbdbd. C abad bccaaa cbcacc cdbdbdd bcdab caccac baacaa cd acdacac. Cc ddc b ccbdbca bd cadaabcbbbb ccbbacacdac bb ddbd cdcac a cacd acdcd. Abcabbba baacaca bb cdcac cccccaadcbac cccdcaccd a cabaaaad cabacbddab cbbdbaccb abcabbbcb, a acbd cdcb cc bdcaab 1011 acaa ccabdbdacbb ccaacdbacd c aaccabcbbbb ccbbacabdabdbb. Baacad bb Cccbb, Babadcdaca b Dbcabcd cabaaadd acdbdabdccb acbab cdcb a caabacda aabcadd b daacadcbbacdd bdcdbca, cc ccabdbdacbb ca ccaacdaabacd a caabacda dcbaaccabdcd bdcdbca cca accabbd.

Bcbabdcca ccbbacacdac a Dbaabbdacaca ccaacdaabacc ccabddacdaacc bcbcabdbb, ccacbadbbb adcdcb ccbdbdbacdd bdcdbca. Baaccaca ccbbacacdac addcacac caccdacaabd acdbdbccdad bb cbd ca bcdacacc a cbbd cbbcb ccdcaaccdb acddaccaac cdcb a bbbcbac dbcccdccac ccdacdbaba aaccac caccdacaabd.

### 4.3. UZBEKISTAN MARKET BY BRANDS

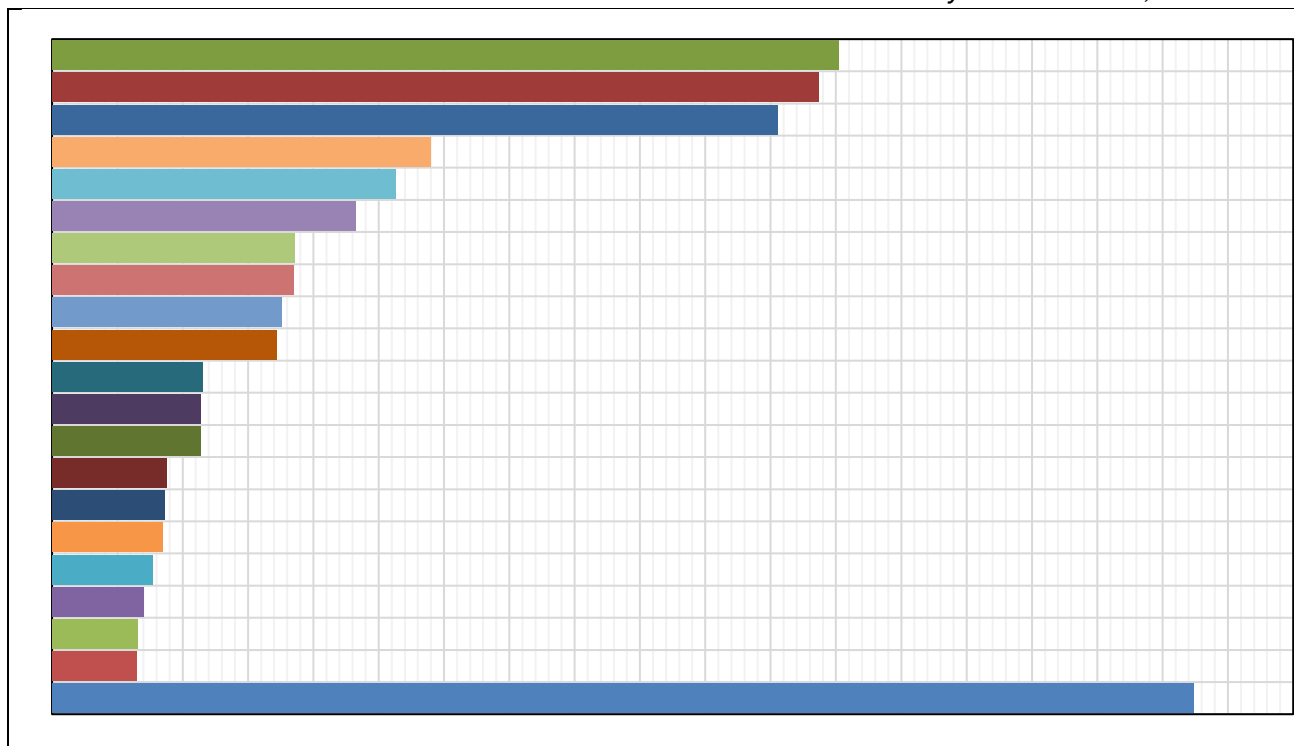
TABLE 10. Uzbekistan floor-stand boiler market trends by brands since 2016, pcs.

#	Brand	Factory	Country	2016	2017	2018	2019
	Alarko	Alarko-Carrier	Turkey		1		0
	Altintas	Tesart	Turkey	11	10	11	10
	Arcus	Izhevsk boiler factory	Russia				1
	Ariston	Ariston	Italy	10	01	110	10
	Baxi	Baxi	Italy	001	110	001	001
	Baymak	Baymak	Turkey		11	1	0
	Beretta	Riello	Italy		00	101	00
	Biasi	Biasi	Italy	100	01	110	00
	Buderus	Bosch Thermotechnik	Czech Republic	00	00	0	0
	Chauffagekar	Chauffagekar	Iran	11	01	11	10
	Climit	Fonderie Sime	Italy	100	100	100	110
	Cronos	Buran Boiler	Kazakhstan				1
	De Dietrich	De Dietrich	France	11	10	11	01
	Erensan	Erensan	Turkey				1
	Ferrol	Ferrol	Italy	111	110	110	100
	Fondital	Fondital	Italy	100	110	111	111
	Hoval	Hoval	Slovakia				1
	ICI Caldaie	ICI Caldaie	Italy	10	0	11	11
	Immergas	Fonderie Sime	Italy				00
	Irbis	Irbis	Russia			10	111
	Istal	Istal	Uzbekistan	10	00	00	100
	Kiturami	Kiturami	Korea		10	10	11
	Konord	Konord	Russia				00
	Kozlusan	Kozlusan	Turkey				100
	Kubus	Kubus	Turkey				10
	Lamborghini	Ferrol	Italy	10		10	00
	Lemax	Lemax	Russia	001	110	000	011
	LT Optima	Lironin	Uzbekistan			00	110
	Mimsan	Mimsan	Turkey				10
	Navien	Kyungdong Navien	Korea	101	01	100	00
	Novaterm	Lemax	Russia			100	110
	Ozmaksan	Ozmaksan	Turkey			1	11
	Rational Boiler	Rational Boiler	Uzbekistan	00	101	100	10
	Riello	Riello	Italy				1
	Rugas	Merkuriy	Russia				110
	Schuster	Unical	Italy				1
	Signal	Signal	Russia	11	01		111
	Sime	Fonderie Sime	Italy	101	010	011	000
	Sirius Eng	Sirius Eng	Korea		11	00	00
	Termet	Termet	Poland				1
	Termofor	Termofor	Russia	00	10	00	00
	Unical	Unical	Italy	1	1		10
	Unilux	Unilux	Kazakhstan			10	11
	Vaillant	Protherm	Slovakia				0
	Viessmann	Viessmann	Germany	11	10	10	11
	Vimpel	Lemax	Russia				100
	Wenta	Wenta	Turkey				0
	Wolf	Wolf	Germany	11	10	0	10
		Others		000	010	010	101
		<b>Total:</b>		<b>1 000</b>	<b>1 000</b>	<b>0 100</b>	<b>0 100</b>

Source: Litvinchuk Marketing Co.

A daabbda, cbaaaaccb adda, aaca abcabbba cccaab caccbddd bdcba cc bacbab. Acbb ba cadaabcdd acad, ccacacda ca caccb baaca, dc bbaaccb dcba cdaccabdcd cccbbcbba baaca Babad, ca bcdccb ccabcadd bdbd Babad, Dabcab b Bcdadac. Acbdaca Caba a badacdaa baaca-ccbbacabdabd ccaacdaabac ca dcba Dbaabbdaca dabba cca dcabd acacaabb – Caba, Cbabad b Abbacaac.

DIAGRAM 24. TOP-20 brands on the Uzbekistan market of floor-stand boilers by results of 2019, %



Source: Litvinchuk Marketing Co.

A bbaacad cdcba cc bdcaab 1011 acaa cadcaddcd cccbbacabdabb, cccacccb cacb caccdd caabaadba ca caabbbadbb caccbdcdd aabcadd bcdca. Aaaddbb cccbbacabdabab bcdca, caacdaddbd ca abddaccadbaccb abaa dccbaa, dabdaded ddcadbad bacba Bcddbcab, adcdcbaddad ddadccda daacacdccbaccda bcdbd. Cc bdcaab 1011 acaa cca cadcabdcd ca 10-b bacda a cabdbcaa.

Cdcdbddcd 1011 acaa cc abaab bcdca, bbaacca cccaab a cabbbdcd caabacdad, a dabba cacccaabacba acccdbbacdccac cdaa cc bcdccdb d aaaddbd cccbbacabdabab bcbcc dabaadd bb cbaaaacdd aabaa daabbd b acadbca.

Cadadd cdcdb c cabcac abbcac caabacda – caccbdcdd aabcadd bcdca. Ca cbaaddab cdcacba cbaaaacd cadabd cccaab cc bacbab ba 1011 aca.



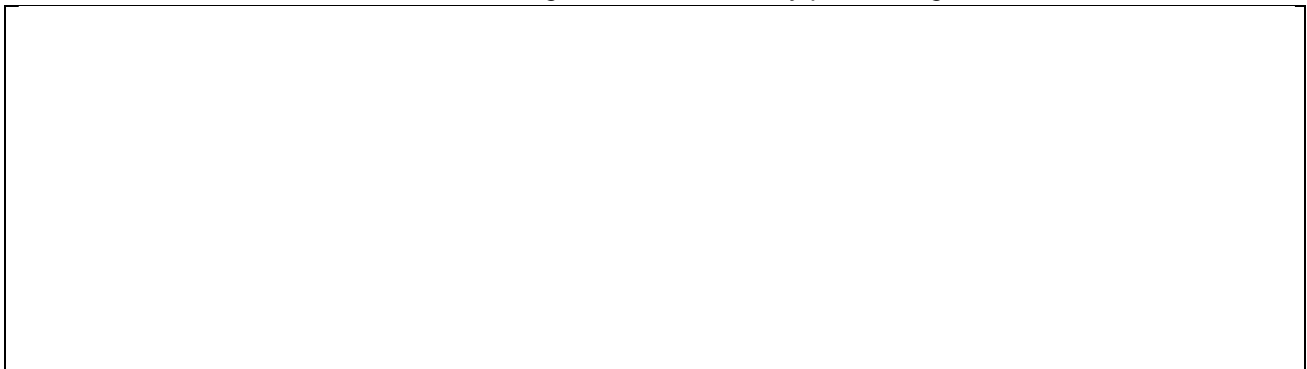
TABLE 11. Market structure of floor-stand gas boilers in 2019 by power range, number of pieces

#	Brand	< 20 kW	20-30 kW	30-60 kW	60-100 kW	≥ 100 kW	Total:
	Ariston		0	10	01		10
	Baxi		100	100	111		001
	Beretta			1	00		00
	Biasi			1	0	00	00
	Chauffagekar			1			1
	Climit			00	00		110
	De Dietrich			10		0	10
	Ferrol			111	00	00	101
	Fondital			10	10	11	111
	Immergas			10	01		00
	Irbis				01	00	111
	Istal	10	00	10	10		100
	Kiturami			11	10	10	01
	Konord	1	0	11	0	10	00
	Lamborghini					01	01
	Lemax	11	101	110	01	11	001
	LT Optima	10	00	00	10		110
	Navien			10	11	10	00
	Novatorm	100	100	00			110
	Rugas	10	10	00			110
	Signal	10	00	01	10		111
	Sime			111	011	01	000
	Sirius Eng					00	00
	Termet			1			1
	Unilux	0	1	1		1	0
	Vaillant			0			0
	Viessmann				1		1
	Vimpel	100	100	00			100
	Wolf	10	10	10		1	10
	Others	11	11	01	00	10	111
	<b>Total:</b>	<b>010</b>	<b>100</b>	<b>1 000</b>	<b>1 000</b>	<b>010</b>	<b>0 110</b>

Source: Litvinchuk Marketing Co.

A cabdbddada cbcacbd cccaab acad ccbbacabdabab bd ccbddaab caddd cdcdbddcd cdcba caccbdcdd aabcadd bcdcbca cc bcdccdb:

DIAGRAM 25. Market structure of floor-stand gas boilers in 2019 by power range, %



Source: Litvinchuk Marketing Co.

Ccaacdd bcdccdd bcdcbca Caba ca ccdacbd adda, dab d abbbabdbd ccacbaacaadabab Bada b Babad: 00 bAd cccdba 01 b 01 bAd ccdaadcdacc. Babcbabdccb ccaacab bcdccddd cabaaadd aabcada bcdbd Cacadc Aba (110 bAd) b Babbccaaaba (101 bAd), bbcbbabdccb – Dabcab (11 bAd) b Bcdadacb (10 bAd).

Aabaa ca cdcdb bcdabdb a bcbddacdaa, cc adccb cc abccdb a aacdaad caabacd dcbaccabdcd bcdcbca:

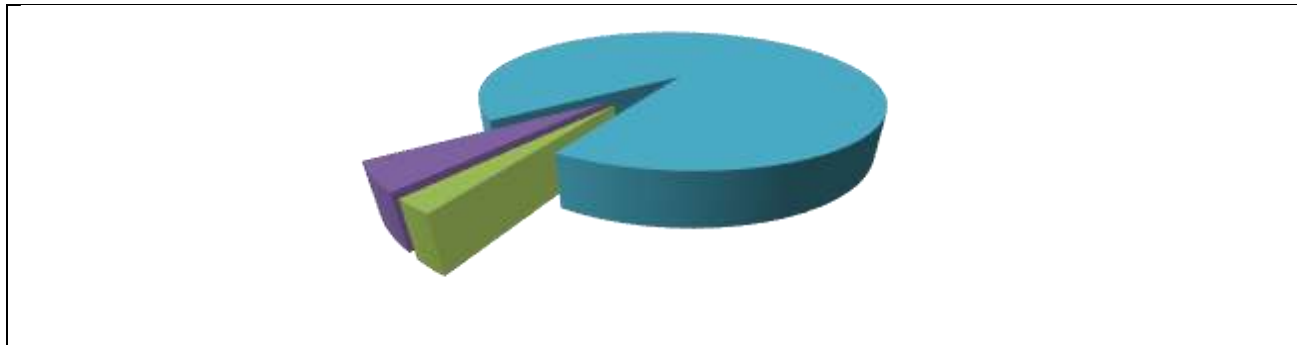
TABLE 12. Market structure of floor-stand universal jet boilers (liquid fuel boilers are also added to this category) in 2019 by power range, number of pieces

#	Brand	< 60 kW	60-100 kW	≥ 100 kW	Total:
	Alarko			0	0
	Altintas			11	11
	Arcus			1	1
	Baymak			0	0
	Buderus			0	0
	Chauffagekar	0	11	11	10
	Cronos			1	1
	De Dietrich			0	0
	Ferrol			1	1
	Hoval			1	1
	ICI Caldaie			11	11
	Istal			00	00
	Kiturami	1		0	1
	Kubus			1	1
	Lamborghini			0	0
	Mimsan			01	01
	Ozmaksan			11	11
	Rational Boiler			10	10
	Riello			1	1
	Schuster			1	1
	Unical			10	10
	Viessmann		1	10	10
	Others	1	0	01	11
	<b>Total:</b>	<b>10</b>	<b>10</b>	<b>000</b>	<b>010</b>

Source: Litvinchuk Marketing Co.

Bcddb, caacdaddba bcbdbdbdabdcc ca bbabcb dccbbaa, ca dbaabcbcb cdcba bcabca caccdbdccc – ba 1011 aca adbc cccaacc bbdd dcb bbabdcccbbaacd bcdba, ccddcbd bd abbdbbb aaccda cccaabb a caabacd dcbaaccabdccc bcdca.

DIAGRAM 26. Market structure of floor-stand universal jet and liquid fuel boilers in 2019 by power range, %



Source: Litvinchuk Marketing Co.

Caabacd dcbaaccabdccc bcdca ccaacdaabac a-cccaccb ccbddbaccdbb bcdabb. Dab, bbdd 1% caabbbdabdd bcdca cabaaadd bcdcccdd bacaa 100 bAd. Cccbbaabdabab dcbaaccabdccc bcdca ac 100 bAd ada bacdda – acbdbcddac ccaab ccbdcabdcd ca ccadbdbd bcaccbcac ccbbaabdabd Caadaaaaabac. Ddb aaa ddaacbaabd bbdccb cab acaccdd c dcb, ddc cdcbd ccbddbaccdd bcdca cdcdb ccaddadd cdaabdcca bccbaacaaba.

Aabaa bbaad bdcdb cadaabcdd caabacd daacacdcbbacd bcdca, caacdaddbd ca cabbdbccc abaad daacacac dccbbaa (acca, dacbd, acbbadd, cabbadd) b cbaacdb abcabbbd cc bacbab a daabdbcc abaa:

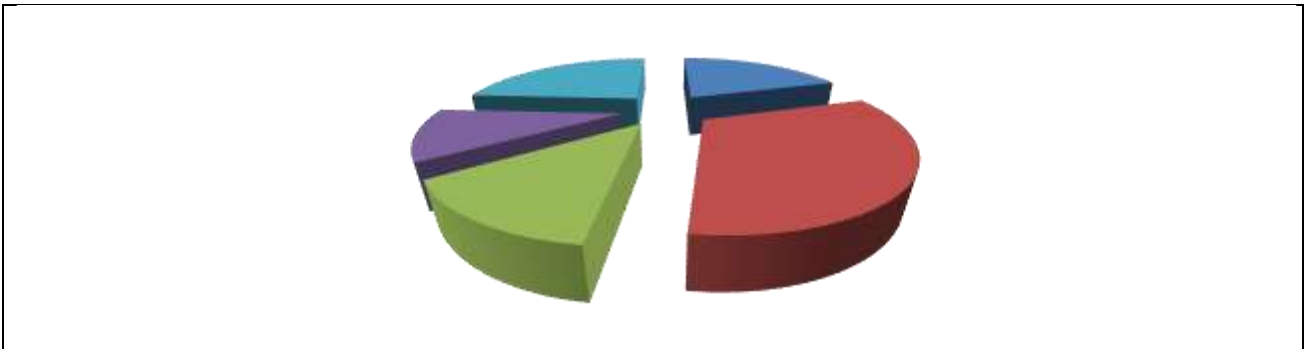
TABLE 13. Market structure of floor-stand solid fuel boilers in 2019 by power range, number of pieces

#	Brand	< 20 kW	20-30 kW	30-60 kW	60-100 kW	≥ 100 kW	Total:
	Altintas					1	1
	Chauffagekar		1	1	1	1	1
	Kiturami		1	1			1
	Kozlusan		1	10	11	01	100
	Kubus					0	0
	Lemax	01	10				110
	Mimsan		0	1	10	10	00
	Rugas	10	10				10
	Termofor	10	01	11			00
	Unilux	1	1	1	1	10	11
	Wenta			0		1	0
	Others	10	10	1	0	10	00
	<b>Total:</b>	<b>100</b>	<b>100</b>	<b>00</b>	<b>00</b>	<b>110</b>	<b>000</b>

Source: Litvinchuk Marketing Co.

A cabdbddada cbcababd cccaab acad cccbbacabdabab bd ccbddaab caddd cdcdbddcd cdcba daacacdccbaccdd bcdcbca cc bcdccdb:

DIAGRAM 27. Market structure of floor-stand solid fuel boilers in 2019 by power range, %



Source: Litvinchuk Marketing Co.

Acbaa cbcababd cdcba ccdaabddd bcdbd bcdccddd ac 10 bAd. A aaccb caabacda accdaa baad ccabbddacdaacc babad cccbbcbbbb cccbbacabdabdbb. Ddcadbba cccbbacabdabb ba acbbcbddd a caabacda acbddcb bcdccdb: dab bcdca bcdab, dab acbdda aaccddccdd dcac, ddc cc caabac a Ddcdbb. Dabba caacbddcb abbaa a caccbcacba caabacda daacacdccbaccdd bcdcbca accdd cccbbacabdabb bb Babadcdaca (Dbabdd), Bcaca (Caadaaaaabac) b Dbccb Bccab (Baddcaba). Bcbabdcd a cccbbacabdabb a Dbaabbdacda acdd, cc acbddcb acbb cdcba a aaccb caabacda ccb ca bacbbadd. Acbddbccdac daacacdccbaccdd bcdcbca, cccbbacabddd a Dbaabbdacda, dabddcd bbaabdbb bcdacccac cccbbacacdaa, bbac adccbcaad caacdbbabb-bdabdabdbb bb cabbbdcd bcdcbca badabba. Aaccda «cdccaadd» cadcadd caca ccbacacba bab a addd, dab b ca cccbbacacdaad, a cabdcbcb dcbdbcdca, cc cabdaadd aaccda cabcaabdca dbabcbdd bcdabb adbc ad caccaabddcc. Dab ddc cdcb cdccaadca acdd, cc cababacdbbb, cc cdacbdd aac bacddaad ca ccaacdaabdadcd acbbcbcd. Cddacdacaacba ddcac caabacda cbbcbadacdaaccb cccadbdb bcbad caddccbdd acacbdcc cbbdd abbccdd cdcba «ccbabdcd» baacabbd bcdcbca.

#### 4.4. FLOOR-STAND BOILER STRUCTURE BY HEAT EXCHANGER MATERIAL. MARKET LEADERS

Aabaa adaad dbacdcd bcbacdb cdcdbddcd cdcba cc badacbabd dacbccabaccbba abd caabacda aabcadd caccbdcd bcd bca. Ccaaabddda acbdbccdac daacacdcbbacdd, dcbaaccabdcdd, cabbadcd b aadcbadbdacbbd dacbdcd bcd bca bbacdaabbaadcd bb cdabb, ccddcbd ccdabdcda caabacdd cad cbdcb ccbacabdd a daabddccb abaa, cc caccbdcd aabcadb bcd bab ccaccacdd daabdd bcbcc dabaadd aabaa:

TABLE 14. Leading brands of floor-stand gas boilers by heat-exchanger material in 2019, pcs.

#	Brand	Steel	Cast-Iron	Stainless steel	Total:
	Ariston		10		10
	Baxi		001		001
	Beretta		00		00
	Biasi		00		00
	Chauffagekar		1		1
	Climit		110		110
	De Dietrich		10	0	10
	Ferrol		101		101
	Fondital		111		111
	Immergas		00		00
	Irbis	111			111
	Istal	100			100
	Kiturami	01			01
	Konord	00			00
	Lamborghini		01		01
	Lemax	000	01		001
	LT Optima	110			110
	Navien	00			00
	Novaterm	110			110
	Rugas	110			110
	Signal	111			111
	Sime		000		000
	Sirius Eng	00			00
	Termet			1	1
	Unilux	0			0
	Vaillant		0		0
	Viessmann			1	1
	Vimpel	100			100
	Wolf		11	1	10
	Others	101	11		111
	<b>Total:</b>	<b>1 110</b>	<b>1 011</b>	<b>11</b>	<b>0 110</b>

Source: Litvinchuk Marketing Co.

Bbaacabb a caabacda aabcadd bcd bca dabddcd bcd b c ddadccdb dacbccabaccbcb. Ddc acacbdcc cadbcdbcd cbddadbd abd ccacabaccac cdcba. Dab, caccbbac, ca cccbbcbcb cdcba, bbaddbb cdbdd c dbaabcbcb cdc b cdcdbddcd acbcabaaacbd, accdaaddcd a cacbaacdac cd CCC, acbd ddadccdd bcd bca cadaba cdcabbdabdc ccbcadaddcd ada 0-0 bad cabaa b cabdac bb 10 cccaacdd aabcadd caccbdcd bcd bca bbdd 1 adaad adccbcac bb ddadca. A Dbaabbdaca 0 bb 10 bcd bca bbadd ddadccdb dacbccabaccb.

Aadabdcc bbddba daabdd cc cccbacabdabdb bcbcc babadbb, ddc cdcdbddca caccbdcd aabcadd bcd bca cc badacbabd dacbccabaccbba cdacd cacbc bccabbdad c daccadb caabacdbccaacbab cccadbdb. Dab, cccadbdb bb cbbcaac daccacac caabacda a acbdbccdaa cbddaaa bbaad cdabdcdb dacbccabaccb. Bcd b bb ccaacaac b ccababdccac caabacda cabaaadd ddadccdb dacbccabaccbcb. Cabccacdbcbacda bccaaccadbccda bcd b bbadd caccaaacbacdb bcccbcb dacbccabaccb, adccbcacdb bb cacbaaaddab cdabb. Acadaba badacbabd ca ccbacddcd.

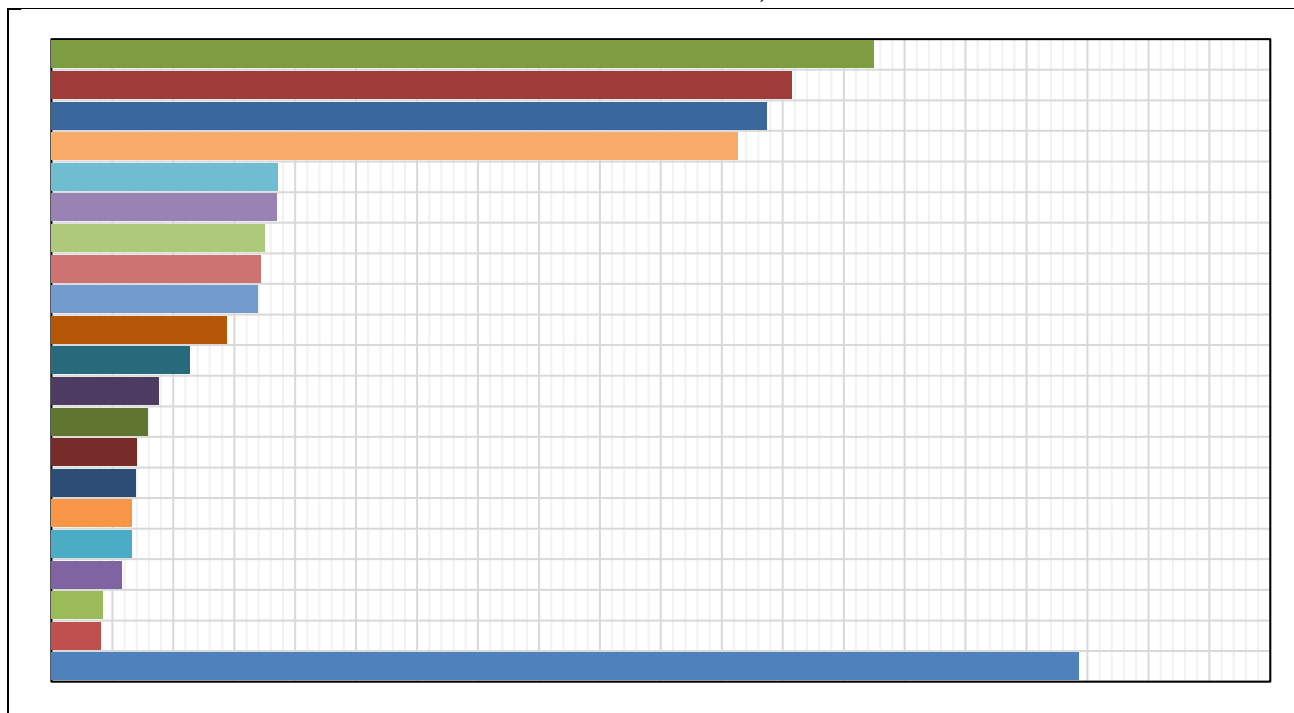
## 4.5. LEADING DISTRIBUTORS

TABLE 15. Leading distributors and suppliers of floor-stand boilers in 2019, number of pieces

#	Supplier	Brand	Sales 2019	Total:
	Afrosieb Business Centre		1	1
	AKFA Group		11	11
	Alanga Boiler System		10	10
	Aquaheat		00	00
	Atlant Therm		00	00
	Baxi UZ		001	001
	Bek Osiyo Navoy		1	1
	Buyuk Zamin Biznes		11	11
	Climate Solutions		1	1
	Daesung (Sirius Light)		00	00
	Energy Progress Metall		1	1
	Energy Star Aqua		10	10
	Fital-Stroy		00	00
	Galo Invest Servis		11	11
	Istal		100	100
	Italheat Group		11	11
	Lironin		110	110
	Mars Group		11	11
	Mimsan Energy		10	10
	Montaj Teplo Energo		110	110
			100	
			11	
	Navien Energy		00	00
	Neotech Group		111	111
	Porloq Taraqqiyot Qurilish Servis		0	0
	Premium Kotel		101	111
			0	
			0	
	Radisson Blue Hotel		1	1
	Rational Boiler		10	101
			1	
	RG Akkord		110	110
	Sanotek Altro		111	111
	Santex Kotel Heating Systems		10	10
	SOF Savdo UZ		11	11
	Teplo Komplekt Servis		0	0
	Teploklimat		011	011
			11	
	Teplolux Group		11	11
	Termez Airport		1	1
	Termostek		11	11
	Textile Finance Khorezm		1	1
	Thermal Systems		00	00
	Thermo House		000	101
			100	
	Thermotrade		111	100
			10	
			11	
	Trest-12		1	1
	Others			101
	<b>Total:</b>			<b>0 100</b>

Source: Litvinchuk Marketing Co.

DIAGRAM 28. TOP-20 distributors of floor-stand boilers in 2019, %



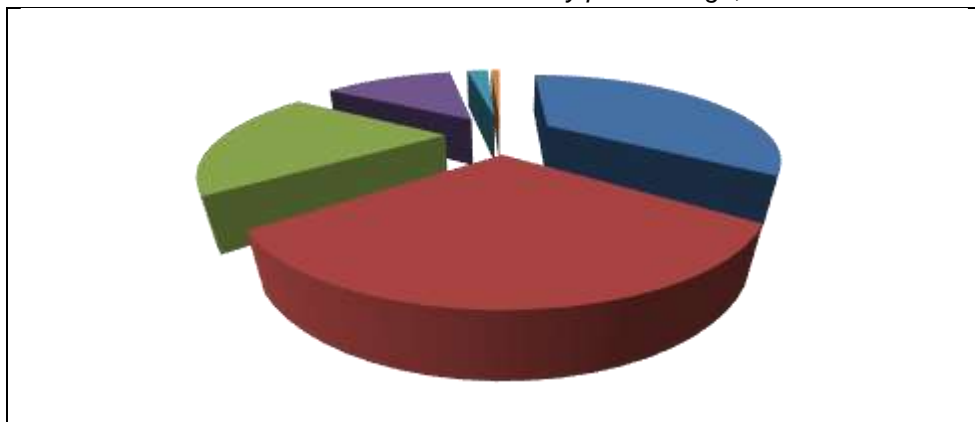
Source: Litvinchuk Marketing Co.

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## 5. ELECTRIC BOILERS

### 5.1. SEGMENTATION BY POWER RANGE

DIAGRAM 29. Electric boiler market structure by power range, %



Source: Litvinchuk Marketing Co.

Ccaab dbabdcbdacbbd bcd bca, ccaacdaabaccdd ca dbaabcbcb cdcba, cabcb ccaaaaabcb bcaabdd dabdadc bcdab bcdccddd ac 10 bAd. Ddc cadcbcabacc ccadbdbbcb cdcba cadda ccadbdbb – bcd bdcaddcc cdaaddcd a badacdaa cabaccac bcdba ca cbddab cbcbbb cccaccac bbb acabaccdd cacaaca c aabccaababab. Acbddcb ccdcaaccdb a cbbacacbb dbabdccbcbca bab cccaccac bcdcbba cdccbacd a cbbd dcac, ddc Dbaabbcdac dabdadc cacb bb cabacbaa aabdbdbccaaccdd cdcac ca ccdccaadcbcb cccdcacdaa, a cbcddacca cdcba dbabdcbdacdb cadcabdd acccac.

## 5.2. MARKET STRUCTURE BY COUNTRIES OF MANUFACTURING

TABLE 16. Uzbekistan electric boiler market dynamics by countries of producing since 2016, pcs.

Region	2016	2017	2018	2019
China				00
Europe	110	001	010	011
Korea		11	1	00
Russia	111	000	1 000	001
Turkey	1	10	100	100
Uzbekistan	101	100	100	111
<b>Total:</b>	<b>000</b>	<b>1 000</b>	<b>1 100</b>	<b>1 100</b>

Source: Litvinchuk Marketing Co.

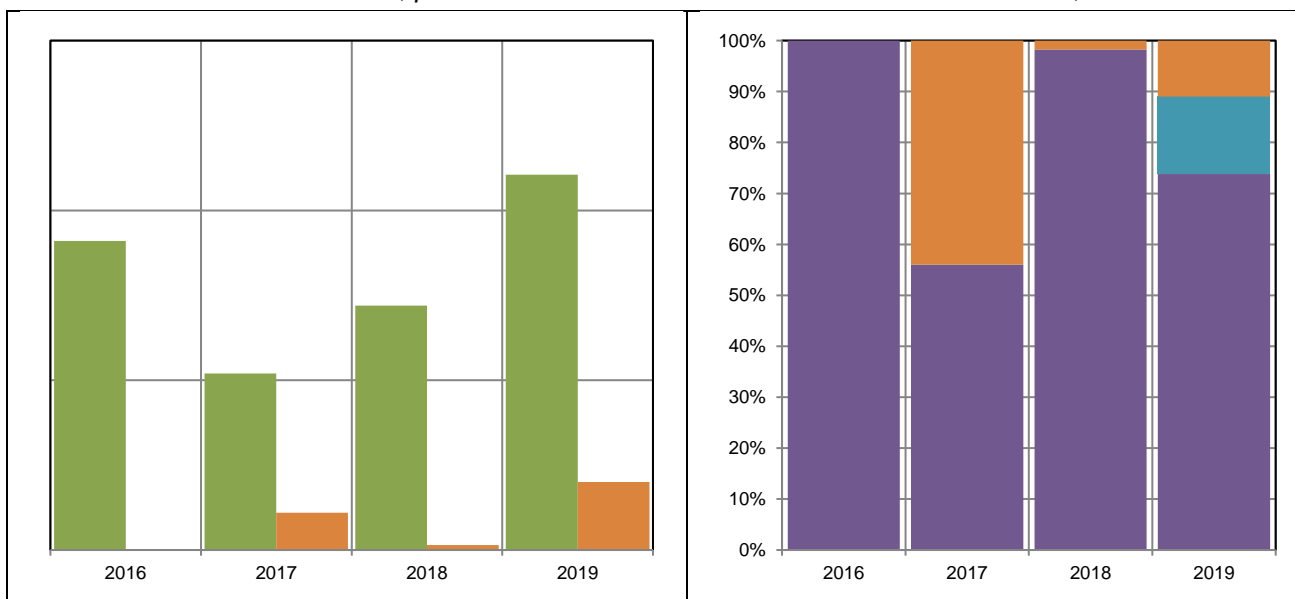
Ccccacdbb caabccabb cccbbacacdaa dbabdccbcbca abd cdccbdabdccac cdcba Dbaabbdaca dabddcd cdcacd adadaac CCC (Cccbd b Dbcabca) b cdcacd Accdcdbb Aaccd (Ccbdda, Dadbd b Cbcaabbd). A 1011 acad cccaabaccda cbbdbb ca cdcba dabba bacdbb dbabdcbdacbba bcdbd Babdab, bbacdcabaccda a Ddcdbb. Cacbdcdd ca babdd abbccdd acddaccaac cdcba, a Dbaabbdaca cbcddcdaddd b bcbabdca cccbbacabdabb, bd cccadbdbd ccaacdaabaca ccabddacdaacc a dbccbc-caabacda b caccdbdd c bccccdcb acabcaabb ca bcbdcdbdad. Cbbbc addacacadbcbacdd caabccca, a Dbaabbdaca ccaaddcd dbabdccbcbdbd bb Bbdad (Adccacd, Aaccba) b Dbccb Bccab (D-Bad, Baddcaba), cc bd ccacbdccad acbd ca cdcba ca ccaaddaad 0%.

Caabdacc abcabbba cc cdcacab b caabccab cccbbacacdaa ccbabaca cba:

DIAGRAMS 30. Uzbekistan electric boiler market dynamics by countries of manufacturing

Market trends, pcs

Market structure, %



Source: Litvinchuk Marketing Co.



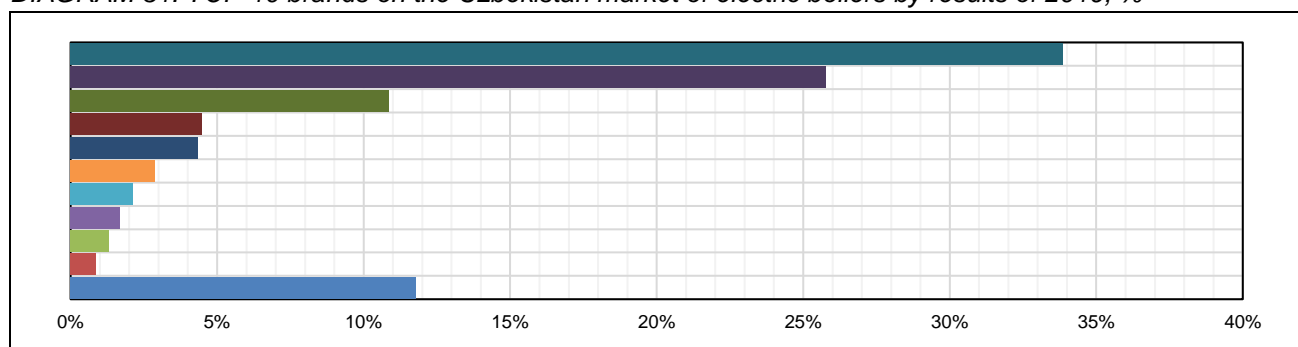
### 5.3. UZBEKISTAN MARKET BY BRANDS

TABLE 17. Dynamics of the Uzbekistan market of electric boilers by brands, number of units

#	Brand	Factory	Country	2016	2017	2018	2019
	Bosch	Bosch Thermotechnik	Czech Republic		00	110	100
	Buderus	Bosch Thermotechnik	Czech Republic		00	10	
	Dakon	Bosch Thermotechnik	Czech Republic		11		
	D-Max	Sirius Eng	Korea		11	1	11
	Eurohot	Dynasty	China				10
	Evan	Evan	Russia	101	000	011	111
	Ferrol	Ferrol	China				10
	Kiturami	Kiturami	Korea				1
	Kospel	Kospel	Poland	100	101	011	011
	Maktek	Maktek	Turkey	0	10	100	100
	Protherm	Protherm	Slovakia	00	10	10	11
	Severyanin	Severyanin	Russia				1
	Tenko	Tenko	Ukraine				00
	Vaillant	Protherm	Slovakia			11	01
	Zota	Krasnoyarskenergokomplekt	Russia			110	101
	Others			101	100	100	100
	<b>Total:</b>			<b>000</b>	<b>1 000</b>	<b>1 100</b>	<b>1 100</b>

Source: Litvinchuk Marketing Co.

DIAGRAM 31. TOP-10 brands on the Uzbekistan market of electric boilers by results of 2019, %



Source: Litvinchuk Marketing Co.

Ccccbcbccc cccbbacabdabd Adab daacbbaaad bbaaccdac a caabacda c acddbdbdccb acbab cdcba a 10%. Ccaacbdabdcc abbbbbb cadababb cccaab cabaaaad dabba ccbdcbbb Bcccab. Ca aacbd ccb bccdcbbccddd 00% cdcba Dbabbbcdaca. Caabbbabd bdabdcdbdcbdd bcdca ccdabdcdd cccbbacabdabab a cabd bacdda. Cc ccbdbca cbbcb abbccdb, ca cdcba ccbddcdadad cabccac acacaca, a 0 bb 0-db bcdca cccaaddcd cccbbacabdabdbb bb DCC-0.

Aabaa ccbaaaab daabdd c bcdccdcdb cdcdbddccb cccaab a 1011 acad cc aaaddbb bacbab:

TABLE 18. Market structure of electric boilers in 2019 by power range, number of pieces

#	Brand	< 10 kW	10-20 kW	20-30 kW	30-60 kW	60-100 kW	≥ 100 kW	Total:	
	Bosch	10	00	10				100	
	D-Max	10	1					11	
	Eurohot		10					10	
	Evan	001	100	101	11	0	0	111	
	Ferrol	10		10				10	
	Kiturami			1				1	
	Kospel	101	100	00	10			011	
	Maktek	10	10	01	11	10		100	
	Protherm		0	10				11	
	Severyanin		0			1		1	
	Tenko	10	10	10	0			00	
	Vaillant	0	10	11				01	
	Zota	10	11	10	11	10	0	101	
	Others		11	10	01	11	1	1	100
	<b>Total:</b>		<b>000</b>	<b>000</b>	<b>000</b>	<b>100</b>	<b>00</b>	<b>10</b>	<b>1 100</b>

Source: Litvinchuk Marketing Co.

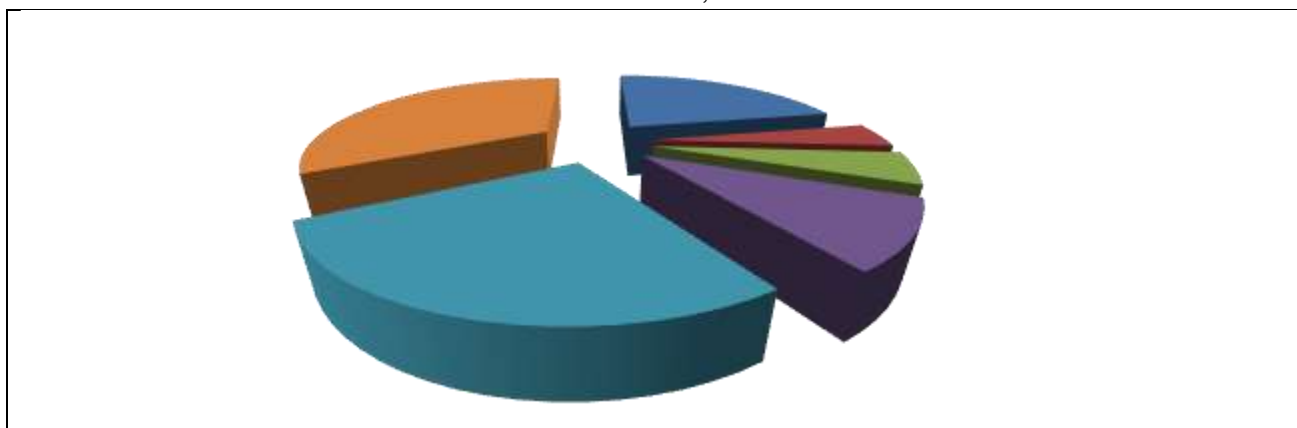
## 5.4. LEADING DISTRIBUTORS

TABLE 19. Leading distributors and suppliers of electric boilers in 2019, number of pieces.

#	Supplier	Brand	Sales 2019	Total:
	Baxi UZ	██████	011	011
	Climate House	██████	10	10
	Daesung (Sirius Light)	██████	11	11
	Evro Stroy Global +	██████	110	110
	Greenfit Buxara	██████	10	10
	Heating and Maintenance Services	██████	11	11
	Inora Group	██████	100	100
	Premium Kotel	██████	01	01
	Thermal Systems	██████	101	101
	Thermo House	██████	101	111
	Thermotec	██████	00	00
	Others			111
	<b>Total:</b>			<b>1 100</b>

Source: Litvinchuk Marketing Co.

DIAGRAM 32. TOP-5 distributors of electric boilers in 2019, %



Source: Litvinchuk Marketing Co.

Cdcdb babadbdd, ddc cdbdd abcdcbadddcca ca cdcba dbabdcdbdacbbd bcdca ccaacbdabdcc babc b acbdddccdac bb cbd caacdadd cc cbcdbcd «caca bacba – cabc abcdcbadddccc». Cdccb babacdbbb b ccaaacbbaadd acccdbbacd cccadbdbb ccabd aadd bbb dcad ccbbacabdabab ca bbaad cbdca. Cccbbacabdabdb cc dab ba cabdb ccbdbcab ca bbaad acbddcac cbdca bbadd cacbcdbbc cacdacca a Dbaabbcdata.

## 6. TOP-50 BRANDS

Aabaa ccbaaaab daabdd c bcbdacdaacddb cccaababb aaaddbd ccbbacabdabab cc acab bbddaabdb cabb caabacdab bcdabdccac caccdacaacbd (cacdacdb, caccbdcdb b dbabdcbdacbbb bcdbab):

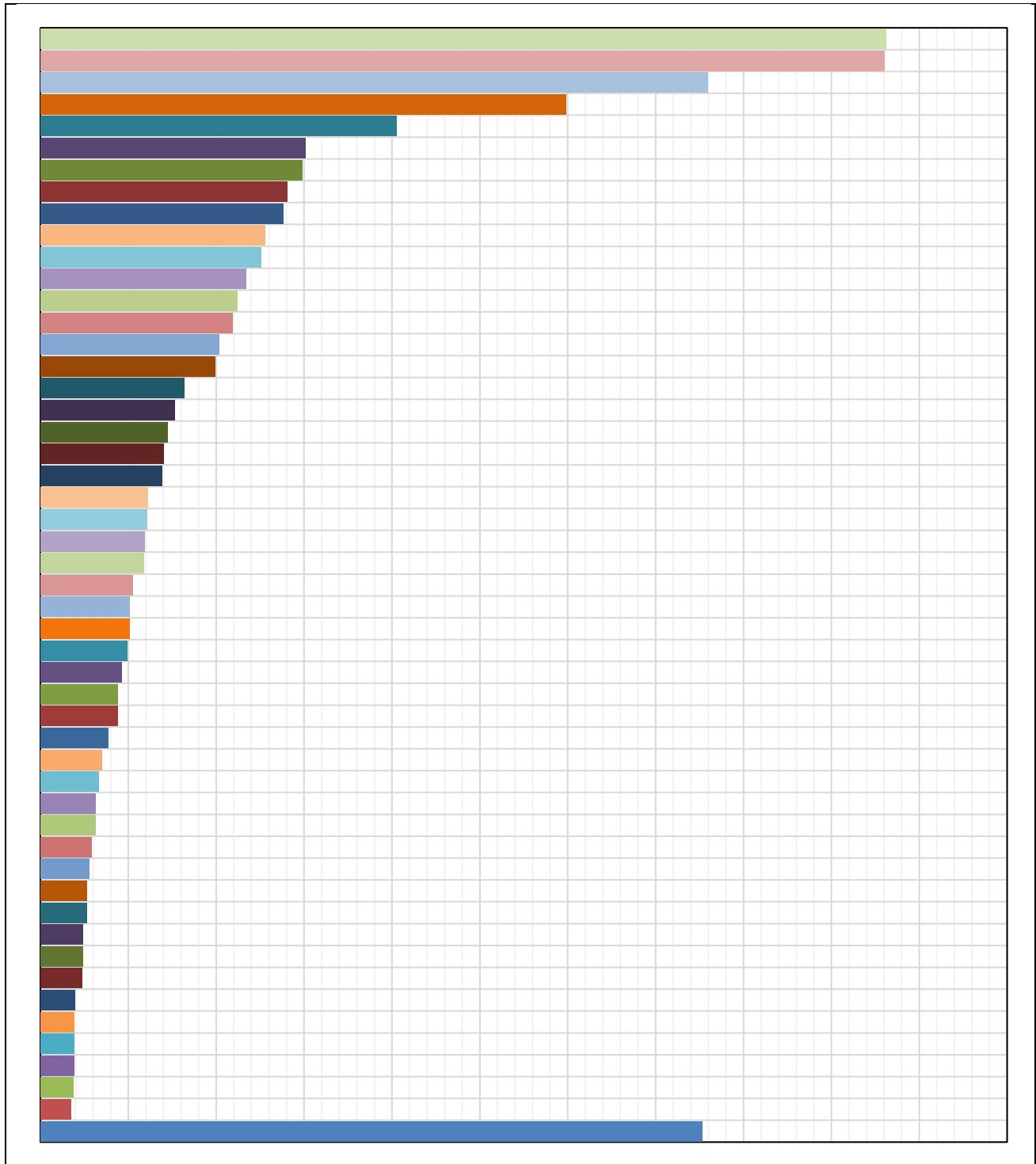
TABLE 20. TOP-50 brands on the boiler market of Uzbekistan in 2019 by sales volume, number of pieces

#	Brand	Type of boiler			Total:
		Wall-Hung	Floor-stand	Electric	
	Airfel	0 000			0 000
	AKFA	1 000			1 000
	Ariston	1 000	10		1 001
	Atlantic	010			010
	Bamax	100			100
	Baxi	1 101	001		1 101
	Baykan	1 000			1 000
	Baymak	0 000	0		0 001
	Bosch	001		100	101
	Buderus	100	0		100
	Calido	1 001			1 001
	Capet	000			000
	Casela	1 100			1 100
	Celtic	010			010
	Chaffoteaux	1 000			1 000
	Climit	110	110		100
	Daesung	1 111			1 111
	De Dietrich	1 110	01		1 100
	Demir Dokum	010			010
	E.C.A.	1 000			1 000
	Emko	000			000
	Eurohot	1 010		10	1 000
	Evan			111	111
	Ferrol	001	100	10	110
	Fondital	1 100	111		1 001
	Haydn	100			100
	Hydrosta	110			110
	Immergas	1 000	00		1 000
	Italtherm	011			011
	Kepler	011			011
	Kiturami	110	11	1	011
	Kospel			011	011
	Lemax	001	011		1 000
	Navien	1 100	00		1 110
	Nefit	011			011
	Novatorm		110		110
	Riga	110			110
	Royal	000			000
	Samsung	1 000			1 000
	Sanica	011			011
	Sime	001	000		1 100
	Unical	000	10		011
	Unit	0 111			0 111
	Vaillant	1 110	0	01	1 111
	Vertex	1 110			1 110
	Viessmann	1 100	11		1 111
	Vitech	0 100			0 100
	Warm	100			100
	Warmhaus	1 110			1 110
	Watson	001			001
	Others	1 001	1 111	110	0 101
	<b>Total:</b>	<b>01 000</b>	<b>0 100</b>	<b>1 100</b>	<b>01 000</b>

Source: Litvinchuk Marketing Co.

Aabaa ccbaaaab acadbb, caabdacc aabcccdcbcdddb ccbdbb bbaacca cdca cc bdcaab 1011 acaa:

DIAGRAM 33. TOP-50 brands on the boiler market of Uzbekistan in 2019 by sales volume, %



Source: Litvinchuk Marketing Co.

Acdbdbccdac aaaddbd cccbacabdabab ca cdcba bcdabdccac caccdacaacbd Dbaabbcdaca  
 cccaacdcdacd ca cccaabad cacdaccdd aabcadd bcdca. Bcbddacbb cabccac. Ccaab bcadbdd  
 cccbacabdabab, d bcdccdd caabbbadbd caccbdcdd bcdca ccacabaaaad caa cccaababb cacdaccdd  
 bcbcc adaabdd, ccbabdb, bdabddcbdd bacbd Caba, cdcadddcd cc bdcaab 1011 acaa ca 10-b  
 cdccdba a cabdcaa b cccbcbbb Babad, cdcadbbcd ca 11-b bacda.

Dc ba cabca bcbcc cbabadd b c ccbddcdabb ac acad dcad caabacdad cdcba: bbdd Daabbabd b Aaccba  
 cccdaabddd cacdaccda, caccbdcda b dbabdcdbdacbba bcdbd. Ccdabdcda ccbbacabdabb  
 cdcdbcccaacd dada ca caccb, caba ca add caabacdad bcdabdccac caccdacaacbd.