

No.	Description	No. of Units	Unit Price	Total
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<b>A</b>	<b>HEATING UNITS AND ACCESSORIES</b>
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1 Deliver, mount and assemble aluminium heating unit sections, entirely in accordance with the graphic part of the project, product type Global Vox or similar, with the following dimensions:  
VOX H-600; Q=185W

sections  x \_\_\_\_\_ = \_\_\_\_\_

2 Deliver, mount and assemble thermostatic radiator angle valves, to be mounted thermostatic head on heating body, product of Herz, with the following dimensions:  
TS 90 - EK 1/2"

pcs  x \_\_\_\_\_ = \_\_\_\_\_

3 Deliver, mount and assemble thermostatic heads to be mounted on heating units, product of Herz, protected against vandalism, with the lock option in desired temperature, with the following dimensions:

1/2"

pcs  x \_\_\_\_\_ = \_\_\_\_\_

4 Deliver, mount and assemble radiator angle bleed valves, to be mounted on heating units Herz, with the following dimensions:  
SN - EK 1/2"

pcs  x \_\_\_\_\_ = \_\_\_\_\_

5 Deliver, mount and assemble heating unit mount holders for the walls, in a set with plugs, air bleeding, air bleed valves on all heating units on the floor of the building, entirely in accordance with graphic documents, Attachment no. 3:

set  x \_\_\_\_\_ = \_\_\_\_\_

**TOTAL A):**

**B PIPELINE AND ACCESSORIES**

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1 Deliver, mount and assemble multilayer pex-al-pex pipes dim. Ø16x2.2mm, product of Rehau or similar, to connect heating units with distributor and collector boxes. This item shall include pipe connections and mini ball, as well as suitable pipe insulation. Note: heating unit connections shall be in the walls, entirely in accordance with graphic documents, Attachment no. 4:

meters  x \_\_\_\_\_ = \_\_\_\_\_

2 Deliver and mount in-wall metal cabinet with lock, dim. 450x650x130mm.

pcs  x \_\_\_\_\_ = \_\_\_\_\_

3 Deliver and mount distributors/collectors, equipped with the following equipment: regulation 1/2" valves, 1/2" valves with pre-regulated return, mounts for collector/distributor and automatic air bleeds, Rehau product, or similar, entirely in accordance with the graphic part of the design, with the following dimensions:

with 7x7 connections

pcs  x \_\_\_\_\_ = \_\_\_\_\_

with 8x8 connections

pcs  x \_\_\_\_\_ = \_\_\_\_\_

**TOTAL B):** \_\_\_\_\_

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**C BOILER ROOM ELEMENTS AND ACCESSORIES**

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- 1** Deliver and mount boiler for heating on wood pellets, product of Viessmann Vitoligno 300-P 8-24 kW Tip VL3B, with the following operation characteristics and delivery volume:

Permissible flow temperature 95°C

Permissible operating pressure 3 bar

Totally automatic pellet boiler

Automatic ash removal from the combustion chamber through a lamellar stainless steel grate ensures high operational reliability and long cleaning intervals

Best energy utilisation through automatic matching of the three-pass heating surface to the actual heat demand with the patented Variopass principle

Automatic and energy-saving ignition with ceramic heating element

Digital control unit with plain text display and user prompts as well as automatic function monitoring plus solar and buffer cylinder control

Extensive accessories for pellet supply and storage

Dimensions:

Length: 1065 mm

Width: 685 mm

Height: 1485 mm

Weight: 466 kg

Flue outlet: 130mm

Boiler efficiency at full load: 94.2%

Boiler efficiency at partial load: 95.8%

Vitotronic 200 - automatic control system

Type F01, weather-compensated, with two heating circuit regulation with mixer

Weather-compensated digital boiler and heating circuit control

Digital time switch, with individual and 7-day programme

Times, heating, temperatures and programmes are individually set.

Solar regulation function

Boiler temperature regulation and sensor

Integrated diagnostic system and other functions

pcs  x \_\_\_\_\_ = \_\_\_\_\_

- 2** Deliver and mount return temperature rising device HE DN25

pcs  x \_\_\_\_\_ = \_\_\_\_\_

- 3 Deliver and mount water level barriers for installation in the primary flow line outside the boiler, with the following characteristics and delivery volumes:

Connection thread: R 3/4  
Connection line length 1.90 m

pcs  x \_\_\_\_\_ = \_\_\_\_\_

- 4 Deliver and mount set of thread connection pipes G 1 1/2 x Rp 1

pcs  x \_\_\_\_\_ = \_\_\_\_\_

- 5 Deliver and mount small distributor consisted of:

safety valve (3 bar),  
manometer  
exhaust valve and  
thermal insulation

pcs  x \_\_\_\_\_ = \_\_\_\_\_

- 6 Deliver and mount frequent circulator pump with the following operational specifications:

**Producer: GRUNDFOS, Denmark**  
**Type: UPS 20-40 130; 1~ PN 6/10**  
**Type of connection: thread**  
**Power supply: V=1x230V~**  
**Maximum electric power: I=0.05÷0.20A**  
**Transferred power: P=5÷22W**  
**Duty point - flow:  $Q_{max}=1,04m^3/h$**   
**Duty point - pump strain:  $H_{max}=2.39m$ .**  
**Duty point power consumption: P=19.6W**

pcs  x \_\_\_\_\_ = \_\_\_\_\_

- 7 Deliver and mount expansion tank against the wall, product of Elbi Italy, or similar, volume V=35 lit.

pcs  x \_\_\_\_\_ = \_\_\_\_\_

- 8 Deliver and mount safety valve with spring, product of Genebre or similar, dimensions DN15 PN6

pcs  x \_\_\_\_\_ = \_\_\_\_\_

- 9 Deliver and mount locking gate valve, threaded, DN25 PN6

pcs  x \_\_\_\_\_ = \_\_\_\_\_

- 10 Deliver and mount threaded check valve, dimensions DN25 PN6

pcs  x \_\_\_\_\_ = \_\_\_\_\_

11 Deliver and mount threaded dirt trap, dimensions DN25  
PN6

pcs  x \_\_\_\_\_ = \_\_\_\_\_

12 Deliver and mount threaded noise and vibration  
damper, dimensions DN25 PN6

pcs  x \_\_\_\_\_ = \_\_\_\_\_

13 Deliver and mount steel pipes for heating installation, in  
accordance with SRPS C.D5.221, to connect  
distributors/collectors with radiator heating boxes, with  
following dimensions: [Note: include armafex pipe  
insulation with this item]

Ø33.7x2.6 - DN25

meters  x \_\_\_\_\_ = \_\_\_\_\_

Ø26.9x2.3 - DN20

meters  x \_\_\_\_\_ = \_\_\_\_\_

14 For consumables: bends, branches, reductions,  
electrodes, technical gases, 30% of steel pipe value shall  
be paid:

Paid 30% of previous item  x \_\_\_\_\_ = \_\_\_\_\_

15 Cleaning of impurity and coating with protective die of  
visible steel pipes with heat resistant die for steel pipes

meters  x \_\_\_\_\_ = \_\_\_\_\_

16 Perform works on pipeline insulation in the boiler room,  
including material. Pipes shall be insulated using mineral  
wool in aluminium sheet cover 1-mm thick

m2  x \_\_\_\_\_ = \_\_\_\_\_

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**TOTAL C):** \_\_\_\_\_

**D PREPARATORY AND FINAL WORKS**

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**1** Preparation of construction site for works on thermal and technical installations. Inspection of on-site situation. Set-up of containers. Transport of workforce, goods and materials.

Lumpsum \_\_\_\_\_ = \_\_\_\_\_

**2** Put boiler system in operation and test the operation of the entire heating system, and check all installed radiator valves for faults.

Lumpsum \_\_\_\_\_ = \_\_\_\_\_

**3** Issue certificate for all installed material and equipment

Lumpsum \_\_\_\_\_ = \_\_\_\_\_

**TOTAL D):** \_\_\_\_\_

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**S U M M A R Y :**

**A HEATING UNITS AND ACCESSORIES** \_\_\_\_\_

**B PIPELINE AND ACCESSORIES** \_\_\_\_\_

**C BOILER ROOM ELEMENTS AND ACCESSORIES** \_\_\_\_\_

**D PREPARATORY AND FINAL WORKS** \_\_\_\_\_

**TOTAL PRICE:** \_\_\_\_\_

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