|  |  |
| --- | --- |
| **Replanning of the shooting range rooms (basement) and renovation of the sports hall with offices (Ground Floor) in the block letter "J" (cadastral no. 0100213.241.04) in the Republic of Moldova, Chisinau municipality, 21 Gh. Asachi Street** | Form No. 1 unfolded  WinСmeta |
| (name of the object) |  |

**Bill of quantities for works No. 2-1-4**

**heating, ventilation, air conditioning (12/25-J-IVC)**

current prices

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| №  crt. | Norm symbol and Resource code | Name of raw material, materials, fuel, energy resources | U.M. | Resource consumption: labor, materials and mechanisms | |
| Per unit of measurement | On the total volume |

| 1 | | | 2 | | 3 | | | 4 | | | 5 | | 6 | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1. Construction work** | | | | | | | | | | | | | | |
| **1.1. heating** | | | | | | | | | | | | | | |
| **1** | | | **IB06C** | | **Steel radiators, monobloc with a length of 1501 - 2000 mm / Steel radiator 22 500x1600** | | | **pcs** | | |  | | **2,000** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,800 | | 1,6000 | |
|  | | | 2822115700000/22-500-1600 | | Steel radiator 22 500x1600 | | | pcs | | | 1,000 | | 2,0000 | |
|  | | | 1714227322940 | | Sealing Hemp | | | kg | | | 0,005 | | 0,0100 | |
|  | | | 2430126100338 | | Sealant solution | | | kg | | | 0,010 | | 0,0200 | |
|  | | | 2811236832352 | | Tungsten Carbide Tipped Drill Bit D=8 | | | pcs | | | 0,050 | | 0,1000 | |
|  | | | 2875276313344 | | Expanding dowel D= 8 | | | pcs | | | 6,000 | | 12,0000 | |
|  | | | 2952270007609 | | Electric drill | | | hr | | | 0,300 | | 0,6000 | |
| **2** | | | **IB06B** | | **Steel radiators, monoblock with a length of 1001 - 1500 mm / Steel radiator 22 500x1400** | | | **pcs** | | |  | | **4,000** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,650 | | 2,6000 | |
|  | | | 2822115700000/22-500-1400 | | Radiator hotel 22 500x1400 | | | pcs | | | 1,000 | | 4,0000 | |
|  | | | 1714227322940 | | Sealing Hemp | | | kg | | | 0,004 | | 0,0160 | |
|  | | | 2430126100338 | | Sealant solution | | | kg | | | 0,008 | | 0,0320 | |
|  | | | 2811236832352 | | Tungsten Carbide Tipped Drill Bit D=8 | | | pcs | | | 0,050 | | 0,2000 | |
|  | | | 2875276313344 | | Expanding dowel D= 8 | | | pcs | | | 4,000 | | 16,0000 | |
|  | | | 2952270007609 | | Electric drill | | | hr | | | 0,250 | | 1,0000 | |
| **3** | | | **IB06A** | | **Steel radiators, monobloc, up to 1000 mm long,inclusive/ Steel radiator 22 500x920** | | | **pcs** | | |  | | **1,000** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,500 | | 0,5000 | |
|  | | | 2822115700000/22-500-920 | | Radiator steel 22 500x920 | | | pcs | | | 1,000 | | 1,0000 | |
|  | | | 1714227322940 | | Sealing Hemp | | | kg | | | 0,003 | | 0,0030 | |
|  | | | 2430126100338 | | Sealant solution | | | kg | | | 0,006 | | 0,0060 | |
|  | | | 2811236832352 | | Tungsten Carbide Tipped Drill Bit D=8 | | | pcs | | | 0,050 | | 0,0500 | |
|  | | | 2875276313344 | | Expanding dowel D= 8 | | | pcs | | | 3,000 | | 3,0000 | |
|  | | | 2952270007609 | | Electric drill | | | hr | | | 0,200 | | 0,2000 | |
| **4** | | | **IB06A** | | **Steel radiators, monobloc, up to 1000 mm long,inclusive/ Steel radiator 22 500x720** | | | **pcs** | | |  | | **2,000** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,500 | | 1,0000 | |
|  | | | 2822115700000/22-500-720 | | Steel radiator 22 500x720 | | | pcs | | | 1,000 | | 2,0000 | |
|  | | | 1714227322940 | | Sealing Hemp | | | kg | | | 0,003 | | 0,0060 | |
|  | | | 2430126100338 | | Sealant solution | | | kg | | | 0,006 | | 0,0120 | |
|  | | | 2811236832352 | | Tungsten Carbide Tipped Drill Bit D=8 | | | pcs | | | 0,050 | | 0,1000 | |
|  | | | 2875276313344 | | Expanding dowel D= 8 | | | pcs | | | 3,000 | | 6,0000 | |
|  | | | 2952270007609 | | Electric drill | | | hr | | | 0,200 | | 0,4000 | |
| **5** | | | **IB06A** | | **Steel radiators, monobloc, up to 1000 mm long,inclusive/ Steel radiator 22 500x600** | | | **pcs** | | |  | | **1,000** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,500 | | 0,5000 | |
|  | | | 2822115700000/22-500-600 | | Steel radiator 22 500x600 | | | pcs | | | 1,000 | | 1,0000 | |
|  | | | 1714227322940 | | Sealing Hemp | | | kg | | | 0,003 | | 0,0030 | |
|  | | | 2430126100338 | | Sealant solution | | | kg | | | 0,006 | | 0,0060 | |
|  | | | 2811236832352 | | Tungsten Carbide Tipped Drill Bit D=8 | | | pcs | | | 0,050 | | 0,0500 | |
|  | | | 2875276313344 | | Expanding dowel D= 8 | | | pcs | | | 3,000 | | 3,0000 | |
|  | | | 2952270007609 | | Electric drill | | | hr | | | 0,200 | | 0,2000 | |
| **6** | | | **IB06A** | | **Steel radiators, monobloc, up to 1000 mm long,inclusive/ Steel radiator 11 500x720** | | | **pcs** | | |  | | **4,000** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,500 | | 2,0000 | |
|  | | | 2822115700000/11-500-720 | | Steel radiator 11 500x720 | | | pcs | | | 1,000 | | 4,0000 | |
|  | | | 1714227322940 | | Sealing Hemp | | | kg | | | 0,003 | | 0,0120 | |
|  | | | 2430126100338 | | Sealant solution | | | kg | | | 0,006 | | 0,0240 | |
|  | | | 2811236832352 | | Tungsten Carbide Tipped Drill Bit D=8 | | | pcs | | | 0,050 | | 0,2000 | |
|  | | | 2875276313344 | | Expanding dowel D= 8 | | | pcs | | | 3,000 | | 12,0000 | |
|  | | | 2952270007609 | | Electric drill | | | hr | | | 0,200 | | 0,8000 | |
| **7** | | | **IB20A** | | **Support elements for heating elements, mounted on a brick wall.** | | | **pcs** | | |  | | **56,000** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,150 | | 8,4000 | |
|  | | | 2822115708001 | | Support element (bracket) | | | pcs | | | 1,000 | | 56,0000 | |
|  | | | 2523156719287 | | PVC dowel size 4 NII-1030-75 | | | pcs | | | 2,000 | | 112,0000 | |
|  | | | 2874115836521 | | Standard screw with convex head and square neck for wood M 6 x 45 | | | pcs | | | 2,000 | | 112,0000 | |
|  | | | 2952270007609 | | Electric drill | | | hr | | | 0,100 | | 5,6000 | |
| **8** | | |  | | **Radiator mounting kit** | | | **pcs** | | |  | | **14,000** | |
|  | | | 610 | | Radiator mounting kit | | | pcs | | | 1,000 | | 14,0000 | |
| **9** | | | **ID01A** | | **Double-valve valve (flow or return) for central heating installations, with a nominal diameter of 3/8" -1/2" / Valvetermostaticof colt RTD-N ⌀1/2"** | | | **pcs** | | |  | | **14,000** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,180 | | 2,5200 | |
|  | | | 2875274202700rtd-n15 | | Thermostatic corner valve RTD-N ⌀1/2" | | | pcs | | | 1,000 | | 14,0000 | |
|  | | | 1714227322940 | | Sealing Hemp | | | kg | | | 0,012 | | 0,1680 | |
|  | | | 2430126100338 | | Sealant solution | | | kg | | | 0,024 | | 0,3360 | |
| **10** | | | **ID07A** | | **Thermostatic condensate separator connected, with sockets, with a nominal diameter of 1/2" -3/4" / Smooth thermostatic head with built-in temperature sensor valve** | | | **pcs** | | |  | | **9,000** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,450 | | 4,0500 | |
|  | | | 2913134626000ter | | Smooth thermostatic head with built-in temperature sensor tap | | | pcs | | | 1,000 | | 9,0000 | |
|  | | | 1714227322940 | | Sealing Hemp | | | kg | | | 0,016 | | 0,1440 | |
|  | | | 2430126100338 | | Sealant solution | | | kg | | | 0,032 | | 0,2880 | |
| **11** | | | **ID01A** | | **Double-valve valve (flow or return) for central heating installations, with a nominal diameter of 3/8" -1/2" / Angled shut-off valve for RLV radiator ⌀1/2"** | | | **pcs** | | |  | | **14,000** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,180 | | 2,5200 | |
|  | | | 2875274202700rlv15 | | Angled shut-off valve for radiator RLV ⌀1/2" | | | pcs | | | 1,000 | | 14,0000 | |
|  | | | 1714227322940 | | Sealing Hemp | | | kg | | | 0,012 | | 0,1680 | |
|  | | | 2430126100338 | | Sealant solution | | | kg | | | 0,024 | | 0,3360 | |
| **12** | | | **ID06A** | | **Air vent valve with movable key for central heating systems / Radiator air vent valve** | | | **pcs** | | |  | | **14,000** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,100 | | 1,4000 | |
|  | | | 2913134500000aer | | Radiator vent valve | | | pcs | | | 1,000 | | 14,0000 | |
|  | | | 2524907304522 | | Non-Sintered Teflon Tape | | | pcs | | | 0,100 | | 1,4000 | |
| **13** | | | **ID04A** | | **Pass-through or check valve with sockets for central heating installations, with a nominal diameter of 1/2" -1" / Drain valve ⌀15** | | | **pcs** | | |  | | **6,000** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,150 | | 0,9000 | |
|  | | | 2875274205100/s15 | | Drain valve ⌀15 | | | pcs | | | 1,000 | | 6,0000 | |
|  | | | 1714227322940 | | Sealing Hemp | | | kg | | | 0,015 | | 0,0900 | |
|  | | | 2430126100338 | | Sealant solution | | | kg | | | 0,032 | | 0,1920 | |
| **14** | | | **ID04A** | | **Through or check valve with sockets for central heating installations, with a nominal diameter of 1/2" -1" / Shut-off valve DN20** | | | **pcs** | | |  | | **4,000** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,150 | | 0,6000 | |
|  | | | 2875274205100/DN20 | | Shut-off valve DN20 | | | pcs | | | 1,000 | | 4,0000 | |
|  | | | 1714227322940 | | Sealing Hemp | | | kg | | | 0,015 | | 0,0600 | |
|  | | | 2430126100338 | | Sealant solution | | | kg | | | 0,032 | | 0,1280 | |
| **15** | | | **ID04A** | | **Through or check valve with sockets for central heating installations, with a nominal diameter of 1/2" -1" / Shut-off valve DN15** | | | **pcs** | | |  | | **4,000** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,150 | | 0,6000 | |
|  | | | 2875274205100/DN15 | | Shut-off valve DN15 | | | pcs | | | 1,000 | | 4,0000 | |
|  | | | 1714227322940 | | Sealing Hemp | | | kg | | | 0,015 | | 0,0600 | |
|  | | | 2430126100338 | | Sealant solution | | | kg | | | 0,032 | | 0,1280 | |
| **16** | | | **ID04A** | | **Through or check valve with sockets for central heating installations, with a nominal diameter of 1/2" -1" / Automatic air vent DN15** | | | **pcs** | | |  | | **2,000** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,150 | | 0,3000 | |
|  | | | 2875274205100dez | | Purjor automat de aer DN15 | | | pcs | | | 1,000 | | 2,0000 | |
|  | | | 1714227322940 | | Sealing Hemp | | | kg | | | 0,015 | | 0,0300 | |
|  | | | 2430126100338 | | Sealant solution | | | kg | | | 0,032 | | 0,0640 | |
| **17** | | | **IC46A** | | **Distributor - collector for points and heating plants, mounted on ready-made support 65 - 100 mm / Comb DN 57x2.5 with 3 branches DN20, L=800 mm** | | | **pcs** | | |  | | **2,000** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 3,400 | | 6,8000 | |
|  | | | 2913124124100/57 | | Comb DN 57x2.5 with 3 branches DN20, L=800 mm | | | pcs | | | 1,000 | | 2,0000 | |
|  | | | 2710403615911 | | Thick sheet metal 10 x 1000 | | | kg | | | 0,030 | | 0,0600 | |
|  | | | 2112517330399 | | Type I Pressboard, 3.3 mm | | | kg | | | 0,125 | | 0,2500 | |
|  | | | 2875274418000 | | Blind flange | | | pcs | | | 0,050 | | 0,1000 | |
| **18** | | | **IC11A** | | **Longitudinal welded black steel pipe for installations, unthreaded, mounted by welding in columns, in central heating installations for residential and social-cultural buildings, Pipe with a diameter of 20x2 (du15)** | | | **m** | | |  | | **10,000** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,350 | | 3,5000 | |
|  | | | 2521216701000/15 | | Steel pipe ⌀20x2 (du15) | | | m | | | 1,015 | | 10,1500 | |
|  | | | 2413547308164 | | Technical calcium carbide (carbide) S102 | | | kg | | | 0,035 | | 0,3500 | |
|  | | | 2734125900487 | | Welding wire, regular dn=2.5 mm | | | kg | | | 0,005 | | 0,0500 | |
|  | | | 2734113803910 | | Mild steel wire, black D=1.25 mm | | | kg | | | 0,003 | | 0,0300 | |
|  | | | 2411115904512 | | Technical oxygen gas S2031 | | | m3 | | | 0,014 | | 0,1400 | |
| **19** | | | **IC11A** | | **Longitudinal welded black steel pipe for installations, unthreaded, mounted by welding in columns, in central heating installations for residential and social-cultural buildings, Pipe with diameter 20x2 (du15) / fittings** | | | **m** | | |  | | **4,000** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,350 | | 1,4000 | |
|  | | | 2521216701000/15 | | Steel pipe ⌀20x2 (du15) | | | m | | | 1,015 | | 4,0600 | |
|  | | | 2413547308164 | | Technical calcium carbide (carbide) S102 | | | kg | | | 0,035 | | 0,1400 | |
|  | | | 2734125900487 | | Welding wire, regular dn=2.5 mm | | | kg | | | 0,005 | | 0,0200 | |
|  | | | 2734113803910 | | Mild steel wire, black D=1.25 mm | | | kg | | | 0,003 | | 0,0120 | |
|  | | | 2411115904512 | | Technical oxygen gas S2031 | | | m3 | | | 0,014 | | 0,0560 | |
| **20** | | | **IC11B** | | **Longitudinal welded black steel pipe for installations, unthreaded, mounted by welding in columns, in central heating installations for residential and social-cultural buildings, Pipe with a diameter of 25x2 (du20)** | | | **m** | | |  | | **20,000** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,400 | | 8,0000 | |
|  | | | 2521216701000/20 | | Steel pipe ⌀25x2 (du20) | | | m | | | 1,015 | | 20,3000 | |
|  | | | 2413547308164 | | Technical calcium carbide (carbide) S102 | | | kg | | | 0,064 | | 1,2800 | |
|  | | | 2734125900487 | | Welding wire, regular dn=2.5 mm | | | kg | | | 0,017 | | 0,3400 | |
|  | | | 2734113803910 | | Mild steel wire, black D=1.25 mm | | | kg | | | 0,003 | | 0,0600 | |
|  | | | 2411115904512 | | Technical oxygen gas S2031 | | | m3 | | | 0,030 | | 0,6000 | |
| **21** | | | **IC11B** | | **Longitudinal welded black steel pipe for installations, unthreaded, mounted by welding in columns, in central heating installations for residential and social-cultural buildings, Pipe with diameter 25x2 (du20) / fittings** | | | **m** | | |  | | **8,000** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,400 | | 3,2000 | |
|  | | | 2521216701000/20 | | Steel pipe ⌀25x2 (du20) | | | m | | | 1,015 | | 8,1200 | |
|  | | | 2413547308164 | | Technical calcium carbide (carbide) S102 | | | kg | | | 0,064 | | 0,5120 | |
|  | | | 2734125900487 | | Welding wire, regular dn=2.5 mm | | | kg | | | 0,017 | | 0,1360 | |
|  | | | 2734113803910 | | Mild steel wire, black D=1.25 mm | | | kg | | | 0,003 | | 0,0240 | |
|  | | | 2411115904512 | | Technical oxygen gas S2031 | | | m3 | | | 0,030 | | 0,2400 | |
| **22** | | | **IC11C** | | **Longitudinal welded black steel pipe for installations, unthreaded, mounted by welding in columns, in central heating installations for residential and social-cultural buildings, Pipe with diameter 32x2 (du25)** | | | **m** | | |  | | **2,000** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,480 | | 0,9600 | |
|  | | | 252121670100025 | | Steel pipe ⌀32x2 (du25) | | | m | | | 1,015 | | 2,0300 | |
|  | | | 2413547308164 | | Technical calcium carbide (carbide) S102 | | | kg | | | 0,064 | | 0,1280 | |
|  | | | 2734125900487 | | Welding wire, regular dn=2.5 mm | | | kg | | | 0,017 | | 0,0340 | |
|  | | | 2734113803910 | | Mild steel wire, black D=1.25 mm | | | kg | | | 0,003 | | 0,0060 | |
|  | | | 2411115904512 | | Technical oxygen gas S2031 | | | m3 | | | 0,030 | | 0,0600 | |
| **23** | | | **IC11C** | | **Longitudinal welded black steel pipe for installations, unthreaded, mounted by welding in columns, in central heating installations for residential and social-cultural buildings, Pipe having a diameter of 32x2 (du25) fittings** | | | **m** | | |  | | **0,800** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,480 | | 0,3840 | |
|  | | | 252121670100025 | | Steel pipe ⌀32x2 (du25) | | | m | | | 1,015 | | 0,8120 | |
|  | | | 2413547308164 | | Technical calcium carbide (carbide) S102 | | | kg | | | 0,064 | | 0,0512 | |
|  | | | 2734125900487 | | Welding wire, regular dn=2.5 mm | | | kg | | | 0,017 | | 0,0136 | |
|  | | | 2734113803910 | | Mild steel wire, black D=1.25 mm | | | kg | | | 0,003 | | 0,0024 | |
|  | | | 2411115904512 | | Technical oxygen gas S2031 | | | m3 | | | 0,030 | | 0,0240 | |
| **24** | | | **RpIF12A** | | **Priming and painting of installation pipes with an outer diameter of up to 60 mm, in 2 layers, with oil-based paints** | | | **m** | | |  | | **44,800** | |
|  | | | 7136040011800 | | Heating installer | | | mh | | | 0,150 | | 6,7200 | |
|  | | | 2430226101260 | | Lead-Free Anti-Corrosion Primer | | | kg | | | 0,015 | | 0,6720 | |
|  | | | 2430116103218 | | Oil paint | | | kg | | | 0,030 | | 1,3440 | |
|  | | | 2320116200573 | | Car gasoline | | | l | | | 0,010 | | 0,4480 | |
|  | | | 2430117326844 | | Temperature resistant varnish | | | kg | | | 0,015 | | 0,6720 | |
|  | | | 1542126108945 | | Dried linseed oil | | | kg | | | 0,050 | | 2,2400 | |
|  | | | 1711317306661 | | Cotton swab | | | kg | | | 0,050 | | 2,2400 | |
|  | | | 2881116001666 | | Dry sanding paper for glass sheets 23 x 30 gr 25 S 1581 | | | pcs | | | 0,050 | | 2,2400 | |
|  | | | 2922140006703 | | 0.0015 MN (0.15 tf) Portable hoist crane | | | hr | | | 0,002 | | 0,0896 | |
| **25** | | | **IC42A** | | **Supports and fixing devices for supporting pipes, boilers, appliances and containers, weighing up to 2 kg / piece / Ready-painted supports** | | | **kg** | | |  | | **21,000** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,230 | | 4,8300 | |
|  | | | 2710700000000\* | | Ready-painted supports or devices | | | kg | | | 1,000 | | 21,0000 | |
| **26** | | | **IC35B** | | **Pipe made of high-density reinforced polyethylene or reinforced or unreinforced polypropylene, installed to connect heating bodies or appliances in central heating installations, with an outer diameter of 20.0 mm / Ekoplastik Fiber Basalt Plus OXY pipe ⌀20x2.8 or similar** | | | **m** | | |  | | **157,000** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,350 | | 54,9500 | |
|  | | | 2521216710000/20 | | Ekoplastik Fiber Basalt Plus OXY pipe ⌀20x2.8 | | | m | | | 1,030 | | 161,7100 | |
| **27** | | | **IC35B** | | **Pipe made of high-density reinforced polyethylene or reinforced or unreinforced polypropylene, installed to connect heating bodies or appliances in central heating installations, with an external diameter of 20.0 mm / Ekoplastik Fiber Basalt Plus OXY Pipe ⌀20x2.8 or similar / fittings** | | | **m** | | |  | | **47,100** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,350 | | 16,4850 | |
|  | | | 2521216710000/20 | | Ekoplastik Fiber Basalt Plus OXY pipe ⌀20x2.8 | | | m | | | 1,030 | | 48,5130 | |
| **28** | | | **IC35C** | | **Pipe made of high-density reinforced polyethylene or reinforced or unreinforced polypropylene, installed to connect heating bodies or appliances in central heating installations, with an outer diameter of 25.0 mm / Ekoplastik Fiber Basalt Plus OXY pipe ⌀25x3.5 or similar** | | | **m** | | |  | | **135,000** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,400 | | 54,0000 | |
|  | | | 2521216710000/25 | | Ekoplastik Fiber Basalt Plus OXY pipe ⌀25x3.5 | | | m | | | 1,030 | | 139,0500 | |
| **29** | | | **IC35C** | | **Pipe made of high-density reinforced polyethylene or reinforced or unreinforced polypropylene, installed in connection with heating bodies or appliances, in central heating installations, with an external diameter of 25.0 mm / Ekoplastik Fiber Basalt Plus OXY Pipe ⌀25x3.5 or similar / fittings** | | | **m** | | |  | | **40,500** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,400 | | 16,2000 | |
|  | | | 2521216710000/25 | | Ekoplastik Fiber Basalt Plus OXY pipe ⌀25x3.5 | | | m | | | 1,030 | | 41,7150 | |
| **30** | | | **RpIF09D1** | | **Pipe insulation with longitudinally cut thermal insulation sleeves with diameter and thickness from D=15x20 to D=54x20 mm / Armaflex ACE pipe insulation b=19 mm ⌀32** | | | **m** | | |  | | **2,000** | |
|  | | | 7136040011800 | | Heating installer | | | mh | | | 0,630 | | 1,2600 | |
|  | | | 332051735223/ACE32x19 | | Armaflex ACE pipe insulation b=19 mm ⌀32 | | | m | | | 1,030 | | 2,1630 | |
| **31** | | | **RpIF09D1** | | **Pipe insulation with longitudinally cut thermal insulation sleeves with diameter and thickness from D=15x20 to D=54x20 mm / Armaflex ACE pipe insulation b=19 mm ⌀25** | | | **m** | | |  | | **20,000** | |
|  | | | 7136040011800 | | Heating installer | | | mh | | | 0,630 | | 12,6000 | |
|  | | | 332051735223/ACE25x19 | | Armaflex ACE pipe insulation b=19 mm ⌀25 | | | m | | | 1,030 | | 21,6300 | |
| **32** | | | **RpIF09D1** | | **Pipe insulation with longitudinally cut thermal insulation sleeves with diameter and thickness from D=15x20 to D=54x20 mm / Armaflex ACE pipe insulation b=19 mm ⌀20** | | | **m** | | |  | | **10,000** | |
|  | | | 7136040011800 | | Heating installer | | | mh | | | 0,630 | | 6,3000 | |
|  | | | 332051735223/ACE20x19 | | Armaflex ACE pipe insulation b=19 mm ⌀20 | | | m | | | 1,030 | | 10,8150 | |
| **33** | | | **RpIF09B1** | | **Pipe insulation with longitudinally cut thermal insulation sleeves with diameter and thickness from D=12x9 to D=54x9 mm / Armaflex ACE pipe insulation b=10 mm ⌀25** | | | **m** | | |  | | **135,000** | |
|  | | | 7136040011800 | | Heating installer | | | mh | | | 0,500 | | 67,5000 | |
|  | | | 332051735223/ACE-25x10 | | Armaflex ACE pipe insulation b=10 mm ⌀25 | | | m | | | 1,030 | | 146,0025 | |
| **34** | | | **RpIF09B1** | | **Pipe insulation with longitudinally cut thermal insulation sleeves with diameter and thickness from D=12x9 to D=54x9 mm / Armaflex ACE pipe insulation b=10 mm ⌀20** | | | **m** | | |  | | **157,000** | |
|  | | | 7136040011800 | | Heating installer | | | mh | | | 0,500 | | 78,5000 | |
|  | | | 332051735223/ACE-20x10 | | Armaflex ACE pipe insulation b=10 mm ⌀20 | | | m | | | 1,030 | | 169,7955 | |
| **35** | | | **IE01A** | | **Performing a pressure tightness test of the central heating installation, having steel, copper, polyethylene or polypropylene pipes, with heating elements, heating appliances, fittings, distributors, collectors and vessels or air valves, having a total area of ​​heating elements of up to 100 sq m** | | | **m2** | | |  | | **7,320** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,530 | | 3,8796 | |
|  | | | 2952270003304 | | Low pressure single-stage electric water pump 15.0 - 30.0 kw | | | hr | | | 0,100 | | 0,7320 | |
| **36** | | | **IE02A** | | **Carrying out the expansion-contraction and operation test of the central heating installation, having steel, copper, polyethylene or polypropylene pipes, with heating elements, heating appliances, fittings, distributors, collectors and vessels or air valves, having the total area of ​​the heating elements up to 100 sq m** | | | **m2** | | |  | | **7,320** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,470 | | 3,4404 | |
| **37** | | | **IE03A** | | **Performing a pressure leak test of the supply pipes of heating appliances (fan heaters, convector heaters, baseboard convectors, etc.) with a diameter of 3/8" ... 1"** | | | **m** | | |  | | **324,000** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,090 | | 29,1600 | |
|  | | | 2952270003304 | | Low pressure single-stage electric water pump 15.0 - 30.0 kw | | | hr | | | 0,040 | | 12,9600 | |
| **38** | | | **IE04A** | | **Carrying out expansion-contraction and operation tests of the supply pipes of heating appliances (fan heaters, convectors, baseboard convectors, etc.) with a diameter of 3/8" ... 1"** | | | **m** | | |  | | **324,000** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,080 | | 25,9200 | |
| **39** | | | **IE08A** | | **Washing with drinking water the internal central heating installation, the total surface area of ​​the bodies being up to 100 sq m** | | | **m2** | | |  | | **7,320** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,330 | | 2,4156 | |
|  | | | 2952270003304 | | Low pressure single-stage electric water pump 15.0 - 30.0 kw | | | hr | | | 0,250 | | 1,8300 | |
|  | |  | |  | | |  | | |  | |  | | |
|  | | |  | | *Total* | | |  | | |  | |  | |
|  | | |  | | **Total heating** | | |  | | | | | | |
| **1.2. Ventilation** | | | | | | | | | | | | | | |
| **1.2.1. K1-V1; K1ext** | | | | | | | | | | | | | | |
| **40** | | | **IzF16B** | | **Vibration and noise damping layer from 25 mm thick Sylomer vibration isolation board or similar (board consumption 1.05m2/m2)** | | | **m2** | | |  | | **2,700** | |
|  | | | 7129200011200 | | Finisor MP | | | mh | | | 0,540 | | 1,4580 | |
|  | | | 2513206621650/40 | | 25 mm thick Sylomer vibration isolation board | | | m2 | | | 1,050 | | 2,8350 | |
| **41** | | | **IC31A** | | **Copper pipe, installed by welding, to connect heating bodies and appliances, in central heating installations, with an external diameter of up to 15.0 mm, inclusive / Copper pipe 15.90 in Insul-Tube insulation or similar** | | | **m** | | |  | | **42,000** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,250 | | 10,5000 | |
|  | | | 274616333400015 | | Copper pipe 15.90 in Insul-Tube insulation | | | m | | | 1,010 | | 42,4200 | |
|  | | | 2414126109482 | | Copper cleaning paste (strip) | | | kg | | | 0,001 | | 0,0420 | |
|  | | | 2744135904000 | | Copper solder alloy | | | kg | | | 0,001 | | 0,0420 | |
|  | | | 2735725903105 | | Electrode for copper soldering L-Cu P6 2x2x500 mm | | | kg | | | 0,020 | | 0,8400 | |
| **42** | | | **IC31A** | | **Copper pipe, installed by welding, to connect heating bodies and appliances, in central heating installations, with an external diameter of up to 15.0 mm, inclusive / Copper pipe 9.52 in Insul-Tube insulation or similar** | | | **m** | | |  | | **42,000** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,250 | | 10,5000 | |
|  | | | 27461633340009 | | Copper pipe 9.52 in Insul-Tube insulation | | | m | | | 1,010 | | 42,4200 | |
|  | | | 2414126109482 | | Copper cleaning paste (strip) | | | kg | | | 0,001 | | 0,0420 | |
|  | | | 2744135904000 | | Copper solder alloy | | | kg | | | 0,001 | | 0,0420 | |
|  | | | 2735725903105 | | Electrode for copper soldering L-Cu P6 2x2x500 mm | | | kg | | | 0,020 | | 0,8400 | |
| **43** | | | **IC35D** | | **Pipe made of high-density reinforced polyethylene or reinforced or unreinforced polypropylene, installed in connection with heating bodies or appliances, in central heating installations, having an external diameter of 32.0 mm / Drainage pipe DN32** | | | **m** | | |  | | **8,000** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,450 | | 3,6000 | |
|  | | | 2521216710000d32 | | Drainage pipe DN32 | | | m | | | 1,030 | | 8,2400 | |
| **44** | | | **RpIF09D1** | | **Pipe insulation with longitudinally cut thermal insulation sleeves with diameter and thickness from D=15x20 to D=54x20 mm / Armaflex ACE insulation b=10 mm for DN32 Pipe** | | | **m** | | |  | | **8,000** | |
|  | | | 7136040011800 | | Heating installer | | | mh | | | 0,630 | | 5,0400 | |
|  | | | 332051735223/19x32 | | Armaflex ACE insulation b=10 mm for DN32 pipe | | | m | | | 1,030 | | 8,6520 | |
| **45** | | | **VB09D** | | **Frame with fixed blinds, ready-made with perimeter 2500 - 4500 mm, mounted on channel / Waterproof blinds 600x700** | | | **pcs** | | |  | | **1,000** | |
|  | | | 7136060011900 | | Ventilation and air conditioning installer | | | mh | | | 2,000 | | 2,0000 | |
|  | | | 2413547308164 | | Technical calcium carbide (carbide) S102 | | | kg | | | 0,300 | | 0,3000 | |
|  | | | 2412126100010 | | Lead-Free Anti-Corrosion Primer | | | kg | | | 0,052 | | 0,0520 | |
|  | | | 2112517330399 | | Type I Pressboard, 3.3 mm | | | kg | | | 0,060 | | 0,0600 | |
|  | | | 2411115904512 | | Technical oxygen gas S2031 | | | m3 | | | 0,200 | | 0,2000 | |
|  | | | 2874135840405 | | Standard hexagonal nuts M 6 | | | pcs | | | 40,000 | | 40,0000 | |
|  | | | 2874115765700/ji600x700 | | Waterproof blinds 600x700 | | | pcs | | | 1,000 | | 1,0000 | |
|  | | | 2735725903453 | | Welding wire, regular dn=3.25 | | | kg | | | 0,400 | | 0,4000 | |
|  | | | 2874115883938 | | Standard hexagonal nuts M 6 | | | pcs | | | 40,000 | | 40,0000 | |
|  | | | 2874115819999 | | Hexagon head screws 6 x 35 mm | | | pcs | | | 40,000 | | 40,0000 | |
|  | | | 3110500002401 | | Welding machine 28-35 Kw | | | hr | | | 0,300 | | 0,3000 | |
|  | | | 2922140006702 | | Portable hoist crane | | | hr | | | 0,050 | | 0,0500 | |
| **46** | | | **CE05B1** | | **Roofing made of galvanized flat sheet metal or flat sheet metal protected against corrosion, fixed with clips, made with double joints in both directions, made on surfaces smaller than or equal to 40 sq m with 0.5 mm thick sheet metal sheets, including the execution of valleys, skirting boards, connections to chimneys, etc.** | | | **m2** | | |  | | **3,143** | |
|  | | | 7213050013100 | | tinsmith | | | mh | | | 0,950 | | 2,9858 | |
|  | | | 9310060019920 | | Construction Operative | | | mh | | | 0,050 | | 0,1572 | |
|  | | | 2710403642299 | | Galvanized flat sheet 0.5 x 1000 x 650 mm | | | kg | | | 5,550 | | 18,3158 | |
|  | | | 2873145887450 | | Sheet metal nails | | | kg | | | 0,030 | | 0,0990 | |
|  | | | 2873147300863 | | Clip | | | kg | | | 0,250 | | 0,8250 | |
|  | | | 2952160007200 | | Lifting equipment for finishing works | | | hr | | | 0,010 | | 0,0314 | |
| **47** | | |  | | **Throttle valve 150x100 (mounting is found in the piping)** | | | **pcs** | | |  | | **2,000** | |
|  | | | 600SA-150x100 | | Throttle valve 150x100 | | | pcs | | | 1,000 | | 2,0000 | |
| **48** | | |  | | **Throttle valve 200x100 (mounting is found in the piping)** | | | **pcs** | | |  | | **5,000** | |
|  | | | 600SA-200x100 | | Throttle valve 200x100 | | | pcs | | | 1,000 | | 5,0000 | |
| **49** | | |  | | **Throttle valve 250x100 (mounting is found in the piping)** | | | **pcs** | | |  | | **1,000** | |
|  | | | 600SA-250x100 | | Throttle valve 250x100 | | | pcs | | | 1,000 | | 1,0000 | |
| **50** | | |  | | **Throttle valve 250x200 (mounting is found in the piping)** | | | **pcs** | | |  | | **2,000** | |
|  | | | 600SA-250x200 | | Throttle valve 250x200 | | | pcs | | | 1,000 | | 2,0000 | |
| **51** | | | **VB15B** | | **Frame with simultaneously adjustable blinds, ready-made with a perimeter of 800 - 2500 mm, mounted on the channel / Wall-mounted aluminum intake and exhaust grille, equipped with an air flow valve and adjustable blinds in horizontal direction type ORG 800x200 or similar** | | | **pcs** | | |  | | **4,000** | |
|  | | | 7136060011900 | | Ventilation and air conditioning installer | | | mh | | | 0,980 | | 3,9200 | |
|  | | | 2413547308164 | | Technical calcium carbide (carbide) S102 | | | kg | | | 0,170 | | 0,6800 | |
|  | | | 2412126100010 | | Lead-Free Anti-Corrosion Primer | | | kg | | | 0,045 | | 0,1800 | |
|  | | | 2112517330399 | | Type I Pressboard, 3.3 mm | | | kg | | | 0,040 | | 0,1600 | |
|  | | | 2411115904512 | | Technical oxygen gas S2031 | | | m3 | | | 0,060 | | 0,2400 | |
|  | | | 2874135840405 | | Standard hexagonal nuts M 6 | | | pcs | | | 28,000 | | 112,0000 | |
|  | | | 2874115765700org-800x200 | | ORG Grid 800x200 | | | pcs | | | 1,000 | | 4,0000 | |
|  | | | 2735725903453 | | Welding wire, regular dn=3.25 | | | kg | | | 0,600 | | 2,4000 | |
|  | | | 2874115883938 | | Standard hexagonal nuts M 6 | | | pcs | | | 28,000 | | 112,0000 | |
|  | | | 2874115819999 | | Hexagon head screws 6 x 35 mm | | | pcs | | | 28,000 | | 112,0000 | |
|  | | | 3110500002401 | | Welding machine 28-35 Kw | | | hr | | | 0,180 | | 0,7200 | |
|  | | | 2922140006702 | | Portable hoist crane | | | hr | | | 0,020 | | 0,0800 | |
| **52** | | | **VB15B** | | **Frame with simultaneously adjustable blinds, ready-made with a perimeter of 800 - 2500 mm, mounted on the channel / Wall-mounted aluminum intake and exhaust grille, equipped with an air flow valve and adjustable blinds in horizontal direction type ORG 600x200 or similar** | | | **pcs** | | |  | | **4,000** | |
|  | | | 7136060011900 | | Ventilation and air conditioning installer | | | mh | | | 0,980 | | 3,9200 | |
|  | | | 2413547308164 | | Technical calcium carbide (carbide) S102 | | | kg | | | 0,170 | | 0,6800 | |
|  | | | 2412126100010 | | Lead-Free Anti-Corrosion Primer | | | kg | | | 0,045 | | 0,1800 | |
|  | | | 2112517330399 | | Type I Pressboard, 3.3 mm | | | kg | | | 0,040 | | 0,1600 | |
|  | | | 2411115904512 | | Technical oxygen gas S2031 | | | m3 | | | 0,060 | | 0,2400 | |
|  | | | 2874135840405 | | Standard hexagonal nuts M 6 | | | pcs | | | 28,000 | | 112,0000 | |
|  | | | 2874115765700org-600x200 | | ORG grid 600x200 | | | pcs | | | 1,000 | | 4,0000 | |
|  | | | 2735725903453 | | Welding wire, regular dn=3.25 | | | kg | | | 0,600 | | 2,4000 | |
|  | | | 2874115883938 | | Standard hexagonal nuts M 6 | | | pcs | | | 28,000 | | 112,0000 | |
|  | | | 2874115819999 | | Hexagon head screws 6 x 35 mm | | | pcs | | | 28,000 | | 112,0000 | |
|  | | | 3110500002401 | | Welding machine 28-35 Kw | | | hr | | | 0,180 | | 0,7200 | |
|  | | | 2922140006702 | | Portable hoist crane | | | hr | | | 0,020 | | 0,0800 | |
| **53** | | | **VB15B** | | **Frame with simultaneously adjustable blinds, ready-made with a perimeter of 800 - 2500 mm, mounted on the channel / Wall-mounted aluminum intake and exhaust grille, equipped with an air flow valve and adjustable blinds in horizontal direction type ORG 500x150 or similar** | | | **pcs** | | |  | | **7,000** | |
|  | | | 7136060011900 | | Ventilation and air conditioning installer | | | mh | | | 0,980 | | 6,8600 | |
|  | | | 2413547308164 | | Technical calcium carbide (carbide) S102 | | | kg | | | 0,170 | | 1,1900 | |
|  | | | 2412126100010 | | Lead-Free Anti-Corrosion Primer | | | kg | | | 0,045 | | 0,3150 | |
|  | | | 2112517330399 | | Type I Pressboard, 3.3 mm | | | kg | | | 0,040 | | 0,2800 | |
|  | | | 2411115904512 | | Technical oxygen gas S2031 | | | m3 | | | 0,060 | | 0,4200 | |
|  | | | 2874135840405 | | Standard hexagonal nuts M 6 | | | pcs | | | 28,000 | | 196,0000 | |
|  | | | 2874115765700org-500x150 | | ORG Grille 500x150 | | | pcs | | | 1,000 | | 7,0000 | |
|  | | | 2735725903453 | | Welding wire, regular dn=3.25 | | | kg | | | 0,600 | | 4,2000 | |
|  | | | 2874115883938 | | Standard hexagonal nuts M 6 | | | pcs | | | 28,000 | | 196,0000 | |
|  | | | 2874115819999 | | Hexagon head screws 6 x 35 mm | | | pcs | | | 28,000 | | 196,0000 | |
|  | | | 3110500002401 | | Welding machine 28-35 Kw | | | hr | | | 0,180 | | 1,2600 | |
|  | | | 2922140006702 | | Portable hoist crane | | | hr | | | 0,020 | | 0,1400 | |
| **54** | | | **VB15B** | | **Frame with simultaneously adjustable blinds, ready-made with a perimeter of 800 - 2500 mm, mounted on the channel / Wall-mounted aluminum intake and exhaust grille, equipped with an air flow valve and adjustable blinds in horizontal direction type ORG 400x200 or similar** | | | **pcs** | | |  | | **4,000** | |
|  | | | 7136060011900 | | Ventilation and air conditioning installer | | | mh | | | 0,980 | | 3,9200 | |
|  | | | 2413547308164 | | Technical calcium carbide (carbide) S102 | | | kg | | | 0,170 | | 0,6800 | |
|  | | | 2412126100010 | | Lead-Free Anti-Corrosion Primer | | | kg | | | 0,045 | | 0,1800 | |
|  | | | 2112517330399 | | Type I Pressboard, 3.3 mm | | | kg | | | 0,040 | | 0,1600 | |
|  | | | 2411115904512 | | Technical oxygen gas S2031 | | | m3 | | | 0,060 | | 0,2400 | |
|  | | | 2874135840405 | | Standard hexagonal nuts M 6 | | | pcs | | | 28,000 | | 112,0000 | |
|  | | | 2874115765700org-400x200 | | ORG Grid 400x200 | | | pcs | | | 1,000 | | 4,0000 | |
|  | | | 2735725903453 | | Welding wire, regular dn=3.25 | | | kg | | | 0,600 | | 2,4000 | |
|  | | | 2874115883938 | | Standard hexagonal nuts M 6 | | | pcs | | | 28,000 | | 112,0000 | |
|  | | | 2874115819999 | | Hexagon head screws 6 x 35 mm | | | pcs | | | 28,000 | | 112,0000 | |
|  | | | 3110500002401 | | Welding machine 28-35 Kw | | | hr | | | 0,180 | | 0,7200 | |
|  | | | 2922140006702 | | Portable hoist crane | | | hr | | | 0,020 | | 0,0800 | |
| **55** | | | **VB15B** | | **Frame with simultaneously adjustable blinds, ready-made with a perimeter of 800 - 2500 mm, mounted on the channel / Wall-mounted aluminum intake and exhaust grille, equipped with an air flow valve and adjustable blinds in horizontal direction type ORG 400x150 or similar** | | | **pcs** | | |  | | **2,000** | |
|  | | | 7136060011900 | | Ventilation and air conditioning installer | | | mh | | | 0,980 | | 1,9600 | |
|  | | | 2413547308164 | | Technical calcium carbide (carbide) S102 | | | kg | | | 0,170 | | 0,3400 | |
|  | | | 2412126100010 | | Lead-Free Anti-Corrosion Primer | | | kg | | | 0,045 | | 0,0900 | |
|  | | | 2112517330399 | | Type I Pressboard, 3.3 mm | | | kg | | | 0,040 | | 0,0800 | |
|  | | | 2411115904512 | | Technical oxygen gas S2031 | | | m3 | | | 0,060 | | 0,1200 | |
|  | | | 2874135840405 | | Standard hexagonal nuts M 6 | | | pcs | | | 28,000 | | 56,0000 | |
|  | | | 2874115765700org-400x150 | | ORG grid 400x150 | | | pcs | | | 1,000 | | 2,0000 | |
|  | | | 2735725903453 | | Welding wire, regular dn=3.25 | | | kg | | | 0,600 | | 1,2000 | |
|  | | | 2874115883938 | | Standard hexagonal nuts M 6 | | | pcs | | | 28,000 | | 56,0000 | |
|  | | | 2874115819999 | | Hexagon head screws 6 x 35 mm | | | pcs | | | 28,000 | | 56,0000 | |
|  | | | 3110500002401 | | Welding machine 28-35 Kw | | | hr | | | 0,180 | | 0,3600 | |
|  | | | 2922140006702 | | Portable hoist crane | | | hr | | | 0,020 | | 0,0400 | |
| **56** | | | **VB15B** | | **Frame with simultaneously adjustable blinds, ready-made with a perimeter of 800 - 2500 mm, mounted on the channel / Wall-mounted aluminum intake and exhaust grille, equipped with an air flow valve and adjustable blinds in horizontal direction type ORG 200x150 or similar** | | | **pcs** | | |  | | **3,000** | |
|  | | | 7136060011900 | | Ventilation and air conditioning installer | | | mh | | | 0,980 | | 2,9400 | |
|  | | | 2413547308164 | | Technical calcium carbide (carbide) S102 | | | kg | | | 0,170 | | 0,5100 | |
|  | | | 2412126100010 | | Lead-Free Anti-Corrosion Primer | | | kg | | | 0,045 | | 0,1350 | |
|  | | | 2112517330399 | | Type I Pressboard, 3.3 mm | | | kg | | | 0,040 | | 0,1200 | |
|  | | | 2411115904512 | | Technical oxygen gas S2031 | | | m3 | | | 0,060 | | 0,1800 | |
|  | | | 2874135840405 | | Standard hexagonal nuts M 6 | | | pcs | | | 28,000 | | 84,0000 | |
|  | | | 2874115765700org-200x150 | | ORG grid 200x150 | | | pcs | | | 1,000 | | 3,0000 | |
|  | | | 2735725903453 | | Welding wire, regular dn=3.25 | | | kg | | | 0,600 | | 1,8000 | |
|  | | | 2874115883938 | | Standard hexagonal nuts M 6 | | | pcs | | | 28,000 | | 84,0000 | |
|  | | | 2874115819999 | | Hexagon head screws 6 x 35 mm | | | pcs | | | 28,000 | | 84,0000 | |
|  | | | 3110500002401 | | Welding machine 28-35 Kw | | | hr | | | 0,180 | | 0,5400 | |
|  | | | 2922140006702 | | Portable hoist crane | | | hr | | | 0,020 | | 0,0600 | |
| **57** | | | **VB15B** | | **Frame with simultaneously adjustable blinds, ready-made with a perimeter of 800 - 2500 mm, mounted on the channel / Wall-mounted aluminum intake and exhaust grille, equipped with an air flow valve and adjustable blinds in horizontal direction type ORG 150x150 or similar** | | | **pcs** | | |  | | **1,000** | |
|  | | | 7136060011900 | | Ventilation and air conditioning installer | | | mh | | | 0,980 | | 0,9800 | |
|  | | | 2413547308164 | | Technical calcium carbide (carbide) S102 | | | kg | | | 0,170 | | 0,1700 | |
|  | | | 2412126100010 | | Lead-Free Anti-Corrosion Primer | | | kg | | | 0,045 | | 0,0450 | |
|  | | | 2112517330399 | | Type I Pressboard, 3.3 mm | | | kg | | | 0,040 | | 0,0400 | |
|  | | | 2411115904512 | | Technical oxygen gas S2031 | | | m3 | | | 0,060 | | 0,0600 | |
|  | | | 2874135840405 | | Standard hexagonal nuts M 6 | | | pcs | | | 28,000 | | 28,0000 | |
|  | | | 2874115765700org-150x150 | | ORG grid 150x150 | | | pcs | | | 1,000 | | 1,0000 | |
|  | | | 2735725903453 | | Welding wire, regular dn=3.25 | | | kg | | | 0,600 | | 0,6000 | |
|  | | | 2874115883938 | | Standard hexagonal nuts M 6 | | | pcs | | | 28,000 | | 28,0000 | |
|  | | | 2874115819999 | | Hexagon head screws 6 x 35 mm | | | pcs | | | 28,000 | | 28,0000 | |
|  | | | 3110500002401 | | Welding machine 28-35 Kw | | | hr | | | 0,180 | | 0,1800 | |
|  | | | 2922140006702 | | Portable hoist crane | | | hr | | | 0,020 | | 0,0200 | |
| **58** | | | **VA21A** | | **Installation of ventilation ducts at a height from the floor up to 3 m, made of 0.5 mm thick galvanized sheet metal (rectangular) with a perimeter of up to 700 mm. / Fasteners consumption 0.280 kg/m2** | | | **m2** | | |  | | **35,550** | |
|  | | | 7136060011900 | | Ventilation and air conditioning installer | | | mh | | | 1,679 | | 59,6884 | |
|  | | | 26261473700090.5r | | Metal ventilation ducts made of 0.5 mm thick galvanized sheet metal (rectangular) | | | m2 | | | 1,000 | | 35,9055 | |
|  | | | 2874115837749 | | fixation | | | kg | | | 0,280 | | 10,0535 | |
|  | | | 2874135840405 | | Standard hexagonal nuts M 6 | | | pcs | | | 15,000 | | 538,5825 | |
|  | | | 2874125881198 | | Flat washer for metal M 6 | | | pcs | | | 15,000 | | 538,5825 | |
|  | | | 2874115819963 | | Hexagon head screws 6 x 25 mm | | | pcs | | | 15,000 | | 538,5825 | |
|  | | | 2524217304531 | | Sealing sheet | | | m | | | 0,600 | | 21,5433 | |
|  | | | 2952160007250 | | Lifting equipment | | | hr | | | 0,054 | | 1,9197 | |
| **59** | | | **VA21B** | | **Installation of ventilation ducts at a height from the floor up to 3 m, made of 0.5 mm thick galvanized sheet metal (rectangular) with a perimeter of 800-1000 mm. / Fasteners consumption 0.280 kg/m2** | | | **m2** | | |  | | **17,600** | |
|  | | | 7136060011900 | | Ventilation and air conditioning installer | | | mh | | | 1,537 | | 27,0512 | |
|  | | | 26261473700090.5r | | Metal ventilation ducts made of 0.5 mm thick galvanized sheet metal (rectangular) | | | m2 | | | 1,000 | | 17,7760 | |
|  | | | 2874115837749 | | fixation | | | kg | | | 0,280 | | 4,9773 | |
|  | | | 2874135840405 | | Standard hexagonal nuts M 6 | | | pcs | | | 15,000 | | 266,6400 | |
|  | | | 2874125881198 | | Flat washer for metal M 6 | | | pcs | | | 15,000 | | 266,6400 | |
|  | | | 2874115819963 | | Hexagon head screws 6 x 25 mm | | | pcs | | | 15,000 | | 266,6400 | |
|  | | | 2524217304531 | | Sealing sheet | | | m | | | 0,900 | | 15,9984 | |
|  | | | 2952160007250 | | Lifting equipment | | | hr | | | 0,064 | | 1,1264 | |
| **60** | | | **VA22B** | | **Installation of ventilation ducts at a height from the floor up to 3 m, made of 0.7 mm thick galvanized sheet metal (rectangular) with a perimeter of up to 1200 mm. / Fasteners consumption 0.280 kg/m2** | | | **m2** | | |  | | **36,000** | |
|  | | | 7136060011900 | | Ventilation and air conditioning installer | | | mh | | | 1,330 | | 47,8800 | |
|  | | | 26261473700090.7r | | Metal ventilation ducts made of 0.7 mm thick galvanized sheet metal (rectangular) | | | m2 | | | 1,000 | | 36,3600 | |
|  | | | 2874115837749 | | fixation | | | kg | | | 0,280 | | 10,1808 | |
|  | | | 2874135840766 | | M8 hexagonal nuts | | | pcs | | | 11,000 | | 399,9600 | |
|  | | | 2874125881199 | | Flat washer for metal M8 | | | pcs | | | 11,000 | | 399,9600 | |
|  | | | 2874115819964 | | Hexagon head screws 8 x 25 mm | | | pcs | | | 11,000 | | 399,9600 | |
|  | | | 2524217304531 | | Sealing sheet | | | m | | | 1,200 | | 43,6320 | |
|  | | | 2952160007250 | | Lifting equipment | | | hr | | | 0,064 | | 2,3040 | |
| **61** | | | **VA22C** | | **Installation of ventilation ducts at a height from the floor up to 3 m, made of 0.7 mm thick galvanized sheet metal (rectangular) with a perimeter of up to 1800 mm. / Fasteners consumption 0.280 kg/m2** | | | **m2** | | |  | | **95,700** | |
|  | | | 7136060011900 | | Ventilation and air conditioning installer | | | mh | | | 1,001 | | 95,7957 | |
|  | | | 26261473700090.7r | | Metal ventilation ducts made of 0.7 mm thick galvanized sheet metal (rectangular) | | | m2 | | | 1,000 | | 96,6570 | |
|  | | | 2874115837749 | | fixation | | | kg | | | 0,280 | | 27,0640 | |
|  | | | 2874135840766 | | M8 hexagonal nuts | | | pcs | | | 8,000 | | 773,2560 | |
|  | | | 2874125881199 | | Flat washer for metal M8 | | | pcs | | | 8,000 | | 773,2560 | |
|  | | | 2874115819964 | | Hexagon head screws 8 x 25 mm | | | pcs | | | 8,000 | | 773,2560 | |
|  | | | 2524217304531 | | Sealing sheet | | | m | | | 1,800 | | 173,9826 | |
|  | | | 2952160007250 | | Lifting equipment | | | hr | | | 0,102 | | 9,7614 | |
| **62** | | | **VA22D** | | **Installation of ventilation ducts at a height from the floor up to 3 m, made of 0.7 mm thick galvanized sheet metal (rectangular) with a perimeter of up to 2000 mm. / Fasteners consumption 0.280 kg/m2** | | | **m2** | | |  | | **75,000** | |
|  | | | 7136060011900 | | Ventilation and air conditioning installer | | | mh | | | 0,809 | | 60,6750 | |
|  | | | 26261473700090.7r | | Metal ventilation ducts made of 0.7 mm thick galvanized sheet metal (rectangular) | | | m2 | | | 1,000 | | 75,7500 | |
|  | | | 2874115837749 | | fixation | | | kg | | | 0,280 | | 21,2100 | |
|  | | | 2874135840766 | | M8 hexagonal nuts | | | pcs | | | 6,000 | | 454,5000 | |
|  | | | 2874125881199 | | Flat washer for metal M8 | | | pcs | | | 6,000 | | 454,5000 | |
|  | | | 2874115819964 | | Hexagon head screws 8 x 25 mm | | | pcs | | | 6,000 | | 454,5000 | |
|  | | | 2524217304531 | | Sealing sheet | | | m | | | 2,000 | | 151,5000 | |
|  | | | 2952160007250 | | Lifting equipment | | | hr | | | 0,102 | | 7,6500 | |
| **63** | | | **VA22E** | | **Installation of ventilation ducts at a height from the floor up to 3 m, made of 0.7 mm thick galvanized sheet metal (rectangular) with a perimeter of up to 3600 mm. / Fasteners consumption 0.280 kg/m2** | | | **m2** | | |  | | **8,400** | |
|  | | | 7136060011900 | | Ventilation and air conditioning installer | | | mh | | | 0,744 | | 6,2496 | |
|  | | | 26261473700090.7r | | Metal ventilation ducts made of 0.7 mm thick galvanized sheet metal (rectangular) | | | m2 | | | 1,000 | | 8,4840 | |
|  | | | 2874115837749 | | fixation | | | kg | | | 0,280 | | 2,3755 | |
|  | | | 2874135840766 | | M8 hexagonal nuts | | | pcs | | | 10,000 | | 84,8400 | |
|  | | | 2874125881199 | | Flat washer for metal M8 | | | pcs | | | 10,000 | | 84,8400 | |
|  | | | 2874115819964 | | Hexagon head screws 8 x 25 mm | | | pcs | | | 10,000 | | 84,8400 | |
|  | | | 2524217304531 | | Sealing sheet | | | m | | | 3,600 | | 30,5424 | |
|  | | | 2952160007250 | | Lifting equipment | | | hr | | | 0,102 | | 0,8568 | |
| **64** | | | **IzH07B** | | **Pipe insulation with mineral wool mattresses type SPS 1 or glass wool mattresses type SPS 1, sewn with galvanized steel wire on the wire mesh, ready-made, coated on one side, with a thickness of 20; 30; 40; 50 or 60 mm, for pipes with a circumference over thermal insulation over 35 cm / Mineral wool thermal insulation b=50 mm** | | | **m2** | | |  | | **39,600** | |
|  | | | 7134030012200 | | Water-repellent insulator | | | mh | | | 0,468 | | 18,5328 | |
|  | | | 2682162611305v50 | | Thermal insulation mineral wool b=50 mm | | | m2 | | | 1,018 | | 40,3128 | |
|  | | | 2734113805762 | | Soft galvanized wire d = 0.8 mm | | | kg | | | 0,009 | | 0,3564 | |
|  | | | 2734113805815 | | Soft galvanized wire d = 1.25 mm | | | kg | | | 0,041 | | 1,6236 | |
| **65** | | | **IzI07D1** | | **Thermal insulation protection for pipes and appliances with 0.5 mm thick galvanized sheet metal, fixed with self-tapping screws with a semi-round slotted head for the sheet metal, with the pipe circumference over the thermal insulation exceeding 1.6 m, manufacturing** | | | **m2** | | |  | | **41,500** | |
|  | | | 7213050013100 | | tinsmith | | | mh | | | 0,235 | | 9,7525 | |
|  | | | 2710403601300 | | Black or galvanized sheet metal | | | kg | | | 4,553 | | 188,9495 | |
|  | | | 4011106202741 | | Electrical energy | | | kw | | | 0,049 | | 2,0335 | |
| **66** | | | **IzI07D2** | | **Thermal insulation protection for pipes and appliances with 0.5 mm thick galvanized sheet metal, fixed with self-tapping screws with a semi-round slotted head for the sheet metal, with the pipe circumference over the thermal insulation exceeding 1.6 m, installation** | | | **m2** | | |  | | **41,500** | |
|  | | | 7213050013100 | | tinsmith | | | mh | | | 0,589 | | 24,4435 | |
|  | | | 2874115893900 | | Surub 4 x 15 OLC35 zn | | | pcs | | | 8,000 | | 332,0000 | |
| **67** | | | **IzH22A** | | **Pipe insulation with ready-made mineral wool shells, with a thickness of 20; 30; 40; 50; 60; 70 and 80mm / Armaflex thermal insulation b=10 mm or similar** | | | **m2** | | |  | | **240,000** | |
|  | | | 7134050013240 | | Insulator - thermal | | | mh | | | 0,474 | | 113,7600 | |
|  | | | 111100010003172/10 | | Armaflex thermal insulation b=10 mm | | | m2 | | | 1,030 | | 247,2000 | |
|  | | | 2734113805815 | | Soft galvanized wire d = 1.25 mm | | | kg | | | 0,045 | | 10,8000 | |
| **68** | | | **IC40D** | | **Clamp for fixing steel pipes for central heating or gas installations, mounted using dowels up to 1"inclusive, on expansion dowels, on concrete wall / Anti-vibration supports for air ducts made of fire-resistant materials** | | | **pcs** | | |  | | **51,000** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,300 | | 15,3000 | |
|  | | | 2875274204000\* | | Anti-vibration mounts for air ducts made of fire-resistant materials | | | pcs | | | 1,000 | | 51,0000 | |
|  | | | 2875276313344 | | Expanding dowel D= 8 | | | pcs | | | 1,000 | | 51,0000 | |
|  | | | 2811236832352 | | Tungsten Carbide Tipped Drill Bit D=8 | | | pcs | | | 0,100 | | 5,1000 | |
|  | | | 2952270007609 | | Electric drill | | | hr | | | 0,150 | | 7,6500 | |
|  | |  | |  | | |  | | |  | |  | | |
|  | | |  | | *Total* | | |  | | |  | |  | |
|  | | |  | | **Total K1-V1; K1ext** | | |  | | | | | | |
| **1.2.2. K2-V2** | | | | | | | | | | | | | | |
| **69** | | | **IzF16B** | | **Vibration and noise damping layer made of 25 mm thick Sylomer vibration isolation board or similar (board consumption 1.05m2/m2)** | | | **m2** | | |  | | **14,600** | |
|  | | | 7129200011200 | | Finisor MP | | | mh | | | 0,540 | | 7,8840 | |
|  | | | 2513206621650/40 | | 25 mm thick Sylomer vibration isolation board | | | m2 | | | 1,050 | | 15,3300 | |
|  | |  | |  | | |  | | |  | |  | | |
|  | | |  | | *Total* | | |  | | |  | |  | |
|  | | |  | | **Total K2-V2** | | |  | | | | | | |
| **1.2.3. K2ext** | | | | | | | | | | | | | | |
| **70** | | | **IC31A** | | **Copper pipe, installed by welding, to connect heating bodies and appliances, in central heating installations, with an external diameter of up to 15.0 mm, inclusive / Copper pipe 12.70 in Insul-Tube insulation or similar** | | | **m** | | |  | | **42,000** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,250 | | 10,5000 | |
|  | | | 274616333400012 | | Copper pipe 12.70 in Insul-Tube insulation | | | m | | | 1,010 | | 42,4200 | |
|  | | | 2414126109482 | | Copper cleaning paste (strip) | | | kg | | | 0,001 | | 0,0420 | |
|  | | | 2744135904000 | | Copper solder alloy | | | kg | | | 0,001 | | 0,0420 | |
|  | | | 2735725903105 | | Electrode for copper soldering L-Cu P6 2x2x500 mm | | | kg | | | 0,020 | | 0,8400 | |
| **71** | | | **IC31D** | | **Copper pipe, installed by welding, to connect heating bodies and appliances, in central heating installations, having an external diameter of 28.0 mm / Copper pipe 28.58 in Insul-Tube insulation or similar** | | | **m** | | |  | | **42,000** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,400 | | 16,8000 | |
|  | | | 274616333400028 | | Copper pipe 28.58 in Insul-Tube insulation | | | m | | | 1,010 | | 42,4200 | |
|  | | | 2414126109482 | | Copper cleaning paste (strip) | | | kg | | | 0,004 | | 0,1680 | |
|  | | | 2744135904000 | | Copper solder alloy | | | kg | | | 0,0016 | | 0,0672 | |
|  | | | 2735725903105 | | Electrode for copper soldering L-Cu P6 2x2x500 mm | | | kg | | | 0,035 | | 1,4700 | |
|  | |  | |  | | |  | | |  | |  | | |
|  | | |  | | *Total* | | |  | | |  | |  | |
|  | | |  | | **Total K2ext** | | |  | | | | | | |
| **1.2.4. K3-V3** | | | | | | | | | | | | | | |
| **72** | | | **IzF16B** | | **Vibration and noise damping layer made of 25 mm thick Sylomer vibration isolation board or similar (board consumption 1.05m2/m2)** | | | **m2** | | |  | | **14,600** | |
|  | | | 7129200011200 | | Finisor MP | | | mh | | | 0,540 | | 7,8840 | |
|  | | | 2513206621650/40 | | 25 mm thick Sylomer vibration isolation board | | | m2 | | | 1,050 | | 15,3300 | |
|  | |  | |  | | |  | | |  | |  | | |
|  | | |  | | *Total* | | |  | | |  | |  | |
|  | | |  | | **Total K3-V3** | | |  | | | | | | |
| **1.2.5. K3ext** | | | | | | | | | | | | | | |
| **73** | | | **IC31A** | | **Copper pipe, installed by welding, to connect heating bodies and appliances, in central heating installations, with an external diameter of up to 15.0 mm, inclusive / Copper pipe 12.70 in Insul-Tube insulation or similar** | | | **m** | | |  | | **46,000** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,250 | | 11,5000 | |
|  | | | 274616333400012 | | Copper pipe 12.70 in Insul-Tube insulation | | | m | | | 1,010 | | 46,4600 | |
|  | | | 2414126109482 | | Copper cleaning paste (strip) | | | kg | | | 0,001 | | 0,0460 | |
|  | | | 2744135904000 | | Copper solder alloy | | | kg | | | 0,001 | | 0,0460 | |
|  | | | 2735725903105 | | Electrode for copper soldering L-Cu P6 2x2x500 mm | | | kg | | | 0,020 | | 0,9200 | |
| **74** | | | **IC31D** | | **Copper pipe, installed by welding, to connect heating bodies and appliances, in central heating installations, having an external diameter of 28.0 mm / Copper pipe 28.58 in Insul-Tube insulation or similar** | | | **m** | | |  | | **46,000** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,400 | | 18,4000 | |
|  | | | 274616333400028 | | Copper pipe 28.58 in Insul-Tube insulation | | | m | | | 1,010 | | 46,4600 | |
|  | | | 2414126109482 | | Copper cleaning paste (strip) | | | kg | | | 0,004 | | 0,1840 | |
|  | | | 2744135904000 | | Copper solder alloy | | | kg | | | 0,0016 | | 0,0736 | |
|  | | | 2735725903105 | | Electrode for copper soldering L-Cu P6 2x2x500 mm | | | kg | | | 0,035 | | 1,6100 | |
| **75** | | | **IC35D** | | **Pipe made of high-density reinforced polyethylene or reinforced or unreinforced polypropylene, installed in connection with heating bodies or appliances, in central heating installations, having an external diameter of 32.0 mm / Drainage pipe DN32** | | | **m** | | |  | | **90,000** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,450 | | 40,5000 | |
|  | | | 2521216710000d32 | | Drainage pipe DN32 | | | m | | | 1,030 | | 92,7000 | |
| **76** | | | **RpIF09D1** | | **Pipe insulation with longitudinally cut thermal insulation sleeves with diameter and thickness from D=15x20 to D=54x20 mm / Armaflex ACE insulation b=10 mm for DN32 Pipe** | | | **m** | | |  | | **90,000** | |
|  | | | 7136040011800 | | Heating installer | | | mh | | | 0,630 | | 56,7000 | |
|  | | | 332051735223/19x32 | | Armaflex ACE insulation b=10 mm for DN32 pipe | | | m | | | 1,030 | | 97,3350 | |
| **77** | | | **IC35C** | | **Pipe made of high-density reinforced polyethylene or reinforced or unreinforced polypropylene, installed in connection with heating bodies or appliances, in central heating installations, having an external diameter of 25.0 mm / Drainage pipe DN25** | | | **m** | | |  | | **17,000** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,400 | | 6,8000 | |
|  | | | 2521216710000d25 | | Drainage pipe DN25 | | | m | | | 1,030 | | 17,5100 | |
| **78** | | | **RpIF09D1** | | **Pipe insulation with longitudinally cut thermal insulation sleeves with diameter and thickness from D=15x20 to D=54x20 mm / Armaflex ACE insulation b=10 mm for DN25 Pipe** | | | **m** | | |  | | **17,000** | |
|  | | | 7136040011800 | | Heating installer | | | mh | | | 0,630 | | 10,7100 | |
|  | | | 332051735223/19x25 | | Armaflex ACE insulation b=10 mm for DN25 pipe | | | m | | | 1,030 | | 18,3855 | |
| **79** | | | **VB15D** | | **Diffuser with simultaneously adjustable louvers, ready-made with perimeter 2500 - 4500 mm, mounted on the duct / Diffuser 1000x700 for supplied air with air flow regulator** | | | **pcs** | | |  | | **32,000** | |
|  | | | 7136060011900 | | Ventilation and air conditioning installer | | | mh | | | 1,750 | | 56,0000 | |
|  | | | 2413547308164 | | Technical calcium carbide (carbide) S102 | | | kg | | | 0,250 | | 8,0000 | |
|  | | | 2412126100010 | | Lead-Free Anti-Corrosion Primer | | | kg | | | 0,052 | | 1,6640 | |
|  | | | 2112517330399 | | Type I Pressboard, 3.3 mm | | | kg | | | 0,060 | | 1,9200 | |
|  | | | 2411115904512 | | Technical oxygen gas S2031 | | | m3 | | | 0,150 | | 4,8000 | |
|  | | | 2874135840405 | | Standard hexagonal nuts M 6 | | | pcs | | | 40,000 | | 1 280,0000 | |
|  | | | 287411576570078 | | 1000x700 supply air diffuser with air flow regulator | | | pcs | | | 1,000 | | 32,0000 | |
|  | | | 2735725903453 | | Welding wire, regular dn=3.25 | | | kg | | | 0,700 | | 22,4000 | |
|  | | | 2874115883938 | | Standard hexagonal nuts M 6 | | | pcs | | | 40,000 | | 1 280,0000 | |
|  | | | 2874115819999 | | Hexagon head screws 6 x 35 mm | | | pcs | | | 40,000 | | 1 280,0000 | |
|  | | | 3110500002401 | | Welding machine 28-35 Kw | | | hr | | | 0,250 | | 8,0000 | |
|  | | | 2922140006702 | | Portable hoist crane | | | hr | | | 0,030 | | 0,9600 | |
| **80** | | | **VB15B** | | **Frame with simultaneously adjustable blinds, ready-made with a perimeter of 800 - 2500 mm, mounted on the duct / Aluminum intake and exhaust grille mounted on the duct, equipped with an air flow valve and adjustable blinds in horizontal direction type ORG 400x250 or similar** | | | **pcs** | | |  | | **3,000** | |
|  | | | 7136060011900 | | Ventilation and air conditioning installer | | | mh | | | 0,980 | | 2,9400 | |
|  | | | 2413547308164 | | Technical calcium carbide (carbide) S102 | | | kg | | | 0,170 | | 0,5100 | |
|  | | | 2412126100010 | | Lead-Free Anti-Corrosion Primer | | | kg | | | 0,045 | | 0,1350 | |
|  | | | 2112517330399 | | Type I Pressboard, 3.3 mm | | | kg | | | 0,040 | | 0,1200 | |
|  | | | 2411115904512 | | Technical oxygen gas S2031 | | | m3 | | | 0,060 | | 0,1800 | |
|  | | | 2874135840405 | | Standard hexagonal nuts M 6 | | | pcs | | | 28,000 | | 84,0000 | |
|  | | | 2874115765700org-400x250 | | ORG vent. grid 400x250 | | | pcs | | | 1,000 | | 3,0000 | |
|  | | | 2735725903453 | | Welding wire, regular dn=3.25 | | | kg | | | 0,600 | | 1,8000 | |
|  | | | 2874115883938 | | Standard hexagonal nuts M 6 | | | pcs | | | 28,000 | | 84,0000 | |
|  | | | 2874115819999 | | Hexagon head screws 6 x 35 mm | | | pcs | | | 28,000 | | 84,0000 | |
|  | | | 3110500002401 | | Welding machine 28-35 Kw | | | hr | | | 0,180 | | 0,5400 | |
|  | | | 2922140006702 | | Portable hoist crane | | | hr | | | 0,020 | | 0,0600 | |
| **81** | | | **VB15B** | | **Frame with simultaneously adjustable blinds, ready-made with a perimeter of 800 - 2500 mm, mounted on the channel / Adjustable exhaust grille with air flow valve 800x400** | | | **pcs** | | |  | | **60,000** | |
|  | | | 7136060011900 | | Ventilation and air conditioning installer | | | mh | | | 0,980 | | 58,8000 | |
|  | | | 2413547308164 | | Technical calcium carbide (carbide) S102 | | | kg | | | 0,170 | | 10,2000 | |
|  | | | 2412126100010 | | Lead-Free Anti-Corrosion Primer | | | kg | | | 0,045 | | 2,7000 | |
|  | | | 2112517330399 | | Type I Pressboard, 3.3 mm | | | kg | | | 0,040 | | 2,4000 | |
|  | | | 2411115904512 | | Technical oxygen gas S2031 | | | m3 | | | 0,060 | | 3,6000 | |
|  | | | 2874135840405 | | Standard hexagonal nuts M 6 | | | pcs | | | 28,000 | | 1 680,0000 | |
|  | | | 2874115765700P800x400 | | Adjustable exhaust grille with air flow valve 800x400 | | | pcs | | | 1,000 | | 60,0000 | |
|  | | | 2735725903453 | | Welding wire, regular dn=3.25 | | | kg | | | 0,600 | | 36,0000 | |
|  | | | 2874115883938 | | Standard hexagonal nuts M 6 | | | pcs | | | 28,000 | | 1 680,0000 | |
|  | | | 2874115819999 | | Hexagon head screws 6 x 35 mm | | | pcs | | | 28,000 | | 1 680,0000 | |
|  | | | 3110500002401 | | Welding machine 28-35 Kw | | | hr | | | 0,180 | | 10,8000 | |
|  | | | 2922140006702 | | Portable hoist crane | | | hr | | | 0,020 | | 1,2000 | |
| **82** | | | **VB15B** | | **Frame with simultaneously adjustable blinds, ready-made with a perimeter of 800 - 2500 mm, mounted on the channel / Adjustable exhaust grille with air flow valve 600x300** | | | **pcs** | | |  | | **6,000** | |
|  | | | 7136060011900 | | Ventilation and air conditioning installer | | | mh | | | 0,980 | | 5,8800 | |
|  | | | 2413547308164 | | Technical calcium carbide (carbide) S102 | | | kg | | | 0,170 | | 1,0200 | |
|  | | | 2412126100010 | | Lead-Free Anti-Corrosion Primer | | | kg | | | 0,045 | | 0,2700 | |
|  | | | 2112517330399 | | Type I Pressboard, 3.3 mm | | | kg | | | 0,040 | | 0,2400 | |
|  | | | 2411115904512 | | Technical oxygen gas S2031 | | | m3 | | | 0,060 | | 0,3600 | |
|  | | | 2874135840405 | | Standard hexagonal nuts M 6 | | | pcs | | | 28,000 | | 168,0000 | |
|  | | | 2874115765700P600x300 | | Adjustable exhaust grille with air flow valve 600x300 | | | pcs | | | 1,000 | | 6,0000 | |
|  | | | 2735725903453 | | Welding wire, regular dn=3.25 | | | kg | | | 0,600 | | 3,6000 | |
|  | | | 2874115883938 | | Standard hexagonal nuts M 6 | | | pcs | | | 28,000 | | 168,0000 | |
|  | | | 2874115819999 | | Hexagon head screws 6 x 35 mm | | | pcs | | | 28,000 | | 168,0000 | |
|  | | | 3110500002401 | | Welding machine 28-35 Kw | | | hr | | | 0,180 | | 1,0800 | |
|  | | | 2922140006702 | | Portable hoist crane | | | hr | | | 0,020 | | 0,1200 | |
| **83** | | | **VA22E** | | **Installation of ventilation ducts at a height from the floor up to 3 m, made of 0.9 mm thick galvanized sheet metal (rectangular) with a perimeter of up to 3600 mm. / Fasteners consumption 0.280 kg/m2** | | | **m2** | | |  | | **195,450** | |
|  | | | 7136060011900 | | Ventilation and air conditioning installer | | | mh | | | 0,744 | | 145,4148 | |
|  | | | 26261473700090.9r | | Metal ventilation ducts made of 0.9 mm thick galvanized sheet metal (rectangular) | | | m2 | | | 1,000 | | 197,4045 | |
|  | | | 2874115837749 | | fixation | | | kg | | | 0,280 | | 55,2733 | |
|  | | | 2874135840766 | | M8 hexagonal nuts | | | pcs | | | 10,000 | | 1 974,0450 | |
|  | | | 2874125881199 | | Flat washer for metal M8 | | | pcs | | | 10,000 | | 1 974,0450 | |
|  | | | 2874115819964 | | Hexagon head screws 8 x 25 mm | | | pcs | | | 10,000 | | 1 974,0450 | |
|  | | | 2524217304531 | | Sealing sheet | | | m | | | 3,600 | | 710,6562 | |
|  | | | 2952160007250 | | Lifting equipment | | | hr | | | 0,102 | | 19,9359 | |
| **84** | | | **VA22F** | | **Installation of ventilation ducts at a height from the floor up to 3 m, made of galvanized sheet metal 0.9 mm thick (rectangular) with a perimeter of 4000 mm. / Fasteners consumption 0.280 kg/m2** | | | **m2** | | |  | | **114,700** | |
|  | | | 7136060011900 | | Ventilation and air conditioning installer | | | mh | | | 0,680 | | 77,9960 | |
|  | | | 26261473700090.9r | | Metal ventilation ducts made of 0.9 mm thick galvanized sheet metal (rectangular) | | | m2 | | | 1,000 | | 115,8470 | |
|  | | | 2874115837749 | | fixation | | | kg | | | 0,280 | | 32,4372 | |
|  | | | 2874135840766 | | M8 hexagonal nuts | | | pcs | | | 7,000 | | 810,9290 | |
|  | | | 2874125881199 | | Flat washer for metal M8 | | | pcs | | | 7,000 | | 810,9290 | |
|  | | | 2874115819964 | | Hexagon head screws 8 x 25 mm | | | pcs | | | 7,000 | | 810,9290 | |
|  | | | 2524217304531 | | Sealing sheet | | | m | | | 4,000 | | 463,3880 | |
|  | | | 2952160007250 | | Lifting equipment | | | hr | | | 0,089 | | 10,2083 | |
| **85** | | | **VA22B** | | **Installation of ventilation ducts at a height from the floor up to 3 m, made of galvanized sheet metal 0.7 mm thick (rectangular) with a perimeter of up to 1200 mm. / Fasteners consumption 0.280 kg/m2** | | | **m2** | | |  | | **29,300** | |
|  | | | 7136060011900 | | Ventilation and air conditioning installer | | | mh | | | 1,330 | | 38,9690 | |
|  | | | 26261473700090.7r | | Metal ventilation ducts made of 0.7 mm thick galvanized sheet metal (rectangular) | | | m2 | | | 1,000 | | 29,5930 | |
|  | | | 2874115837749 | | fixation | | | kg | | | 0,280 | | 8,2860 | |
|  | | | 2874135840766 | | M8 hexagonal nuts | | | pcs | | | 11,000 | | 325,5230 | |
|  | | | 2874125881199 | | Flat washer for metal M8 | | | pcs | | | 11,000 | | 325,5230 | |
|  | | | 2874115819964 | | Hexagon head screws 8 x 25 mm | | | pcs | | | 11,000 | | 325,5230 | |
|  | | | 2524217304531 | | Sealing sheet | | | m | | | 1,200 | | 35,5116 | |
|  | | | 2952160007250 | | Lifting equipment | | | hr | | | 0,064 | | 1,8752 | |
| **86** | | | **VA22C** | | **Installation of ventilation ducts at a height from the floor up to 3 m, made of 0.7 mm thick galvanized sheet metal (rectangular) with a perimeter of up to 1800 mm. / Fasteners consumption 0.280 kg/m2** | | | **m2** | | |  | | **45,250** | |
|  | | | 7136060011900 | | Ventilation and air conditioning installer | | | mh | | | 1,001 | | 45,2953 | |
|  | | | 26261473700090.7r | | Metal ventilation ducts made of 0.7 mm thick galvanized sheet metal (rectangular) | | | m2 | | | 1,000 | | 45,7025 | |
|  | | | 2874115837749 | | fixation | | | kg | | | 0,280 | | 12,7967 | |
|  | | | 2874135840766 | | M8 hexagonal nuts | | | pcs | | | 8,000 | | 365,6200 | |
|  | | | 2874125881199 | | Flat washer for metal M8 | | | pcs | | | 8,000 | | 365,6200 | |
|  | | | 2874115819964 | | Hexagon head screws 8 x 25 mm | | | pcs | | | 8,000 | | 365,6200 | |
|  | | | 2524217304531 | | Sealing sheet | | | m | | | 1,800 | | 82,2645 | |
|  | | | 2952160007250 | | Lifting equipment | | | hr | | | 0,102 | | 4,6155 | |
| **87** | | | **VA22E** | | **Installation of ventilation ducts at a height from the floor up to 3 m, made of 0.7 mm thick galvanized sheet metal (rectangular) with a perimeter of up to 3600 mm. / Fasteners consumption 0.280 kg/m2** | | | **m2** | | |  | | **420,100** | |
|  | | | 7136060011900 | | Ventilation and air conditioning installer | | | mh | | | 0,744 | | 312,5544 | |
|  | | | 26261473700090.7r | | Metal ventilation ducts made of 0.7 mm thick galvanized sheet metal (rectangular) | | | m2 | | | 1,000 | | 424,3010 | |
|  | | | 2874115837749 | | fixation | | | kg | | | 0,280 | | 118,8043 | |
|  | | | 2874135840766 | | M8 hexagonal nuts | | | pcs | | | 10,000 | | 4 243,0100 | |
|  | | | 2874125881199 | | Flat washer for metal M8 | | | pcs | | | 10,000 | | 4 243,0100 | |
|  | | | 2874115819964 | | Hexagon head screws 8 x 25 mm | | | pcs | | | 10,000 | | 4 243,0100 | |
|  | | | 2524217304531 | | Sealing sheet | | | m | | | 3,600 | | 1 527,4836 | |
|  | | | 2952160007250 | | Lifting equipment | | | hr | | | 0,102 | | 42,8502 | |
| **88** | | | **VA22F** | | **Installation of ventilation ducts at a height from the floor up to 3 m, made of galvanized sheet metal 0.7 mm thick with a perimeter of 4400 mm. / Fasteners consumption 0.280 kg/m2** | | | **m2** | | |  | | **450,000** | |
|  | | | 7136060011900 | | Ventilation and air conditioning installer | | | mh | | | 0,680 | | 306,0000 | |
|  | | | 26261473700090.7r | | Metal ventilation ducts made of 0.7 mm thick galvanized sheet metal (rectangular) | | | m2 | | | 1,000 | | 454,5000 | |
|  | | | 2874115837749 | | fixation | | | kg | | | 0,280 | | 127,2600 | |
|  | | | 2874135840766 | | M8 hexagonal nuts | | | pcs | | | 7,000 | | 3 181,5000 | |
|  | | | 2874125881199 | | Flat washer for metal M8 | | | pcs | | | 7,000 | | 3 181,5000 | |
|  | | | 2874115819964 | | Hexagon head screws 8 x 25 mm | | | pcs | | | 7,000 | | 3 181,5000 | |
|  | | | 2524217304531 | | Sealing sheet | | | m | | | 4,000 | | 1 818,0000 | |
|  | | | 2952160007250 | | Lifting equipment | | | hr | | | 0,089 | | 40,0500 | |
| **89** | | | **IzH07B** | | **Pipe insulation with mineral wool mattresses type SPS 1 or glass wool mattresses type SPS 1, sewn with galvanized steel wire on the wire mesh, ready-made, coated on one side, with a thickness of 20; 30; 40; 50 or 60 mm, for pipes with a circumference over thermal insulation over 35 cm / Mineral wool thermal insulation b=50 mm** | | | **m2** | | |  | | **1 360,400** | |
|  | | | 7134030012200 | | Water-repellent insulator | | | mh | | | 0,468 | | 636,6672 | |
|  | | | 2682162611305v50 | | Thermal insulation mineral wool b=50 mm | | | m2 | | | 1,018 | | 1 384,8872 | |
|  | | | 2734113805762 | | Soft galvanized wire d = 0.8 mm | | | kg | | | 0,009 | | 12,2436 | |
|  | | | 2734113805815 | | Soft galvanized wire d = 1.25 mm | | | kg | | | 0,041 | | 55,7764 | |
| **90** | | | **IzI07D1** | | **Thermal insulation protection for pipes and appliances with 0.5 mm thick galvanized sheet metal, fixed with self-tapping screws with a semi-round slotted head for the sheet metal, with the pipe circumference over the thermal insulation exceeding 1.6 m, manufacturing** | | | **m2** | | |  | | **1 448,500** | |
|  | | | 7213050013100 | | tinsmith | | | mh | | | 0,235 | | 340,3975 | |
|  | | | 2710403601300 | | Black or galvanized sheet metal | | | kg | | | 4,553 | | 6 595,0205 | |
|  | | | 4011106202741 | | Electrical energy | | | kw | | | 0,049 | | 70,9765 | |
| **91** | | | **IzI07D2** | | **Thermal insulation protection for pipes and appliances with 0.5 mm thick galvanized sheet metal, fixed with self-tapping screws with a semi-round slotted head for the sheet metal, with the pipe circumference over the thermal insulation exceeding 1.6 m, installation** | | | **m2** | | |  | | **1 448,500** | |
|  | | | 7213050013100 | | tinsmith | | | mh | | | 0,589 | | 853,1665 | |
|  | | | 2874115893900 | | Surub 4 x 15 OLC35 zn | | | pcs | | | 8,000 | | 11 588,0000 | |
| **92** | | | **IC40D** | | **Clamp for fixing steel pipes for central heating or gas installations, mounted using dowels up to 1"inclusive, on expansion dowels, on concrete wall / Anti-vibration supports for air ducts made of fire-resistant materials** | | | **pcs** | | |  | | **234,000** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 0,300 | | 70,2000 | |
|  | | | 2875274204000\* | | Anti-vibration mounts for air ducts made of fire-resistant materials | | | pcs | | | 1,000 | | 234,0000 | |
|  | | | 2875276313344 | | Expanding dowel D= 8 | | | pcs | | | 1,000 | | 234,0000 | |
|  | | | 2811236832352 | | Tungsten Carbide Tipped Drill Bit D=8 | | | pcs | | | 0,100 | | 23,4000 | |
|  | | | 2952270007609 | | Electric drill | | | hr | | | 0,150 | | 35,1000 | |
|  | |  | |  | | |  | | |  | |  | | |
|  | | |  | | *Total* | | |  | | |  | |  | |
|  | | |  | | **Total K3ext** | | |  | | | | | | |
|  | |  | |  | | |  | | |  | |  | | |
|  | | |  | | *Total* | | |  | | |  | |  | |
|  | | |  | | **Total Ventilation** | | |  | | | | | | |
|  | |  | |  | | |  | | |  | |  | | |
|  | | |  | | *Total* | | |  | | |  | |  | |
|  | | |  | | *Social insurance* | | |  | | |  | |  | |
|  | | |  | | *Transport of materials* | | |  | | |  | |  | |
|  | | |  | | *Storage purchase expenses* | | |  | | |  | |  | |
|  | | |  | | *Direct expenses* | | |  | | |  | |  | |
|  | | |  | | *Overhead expenses* | | |  | | |  | |  | |
|  | | |  | | *Total with Overhead Costs* | | |  | | |  | |  | |
|  | | |  | | *Quote benefit* | | |  | | |  | |  | |
|  | | |  | | **Total Construction works** | | |  | | | | | | |
| **2. Installation work** | | | | | | | | | | | | | | |
| **2.1. heating** | | | | | | | | | | | | | | |
| **93** | | | **11-02-001-01** | | **Device installed on threaded joints** | | | **pcs** | | |  | | **6,000** | |
|  | | | 1 | | Working | | | mh | | | 1,030 | | 6,1800 | |
|  | | | 1019892 | | Paronite gaskets | | | kg | | | 0,042 | | 0,2520 | |
|  | |  | |  | | |  | | |  | |  | | |
|  | | |  | | *Total* | | |  | | |  | |  | |
|  | | |  | | **Total heating** | | |  | | | | | | |
| **2.2. Ventilation** | | | | | | | | | | | | | | |
| **2.2.1. K1-V1; K1ext** | | | | | | | | | | | | | | |
| **94** | | | **VC16A** | | **Installation of the partial air treatment unit in the room, type ALTPA, through suction, filtration, ventilation, heating, cooling, discharge, with a treated air flow of 3,000 - 7,500 mc/h** | | | **pcs** | | |  | | **1,000** | |
|  | | | 7136060011900 | | Ventilation and air conditioning installer | | | mh | | | 44,870 | | 44,8700 | |
|  | | | 2710403700053 | | hot rolled wide steel OL 37 20 x 2.0 mm (steel strip) | | | kg | | | 0,350 | | 0,3518 | |
|  | | | 2651122100024 | | Portland cement P 40 bags S388 | | | kg | | | 1,000 | | 1,0050 | |
|  | | | 2430226100814 | | Anti-Corrosion Primer G 355-6 | | | kg | | | 0,150 | | 0,1508 | |
|  | | | 2112517330399 | | Type I Pressboard, 3.3 mm | | | kg | | | 0,050 | | 0,0502 | |
|  | | | 2874115842702 | | Hexagon nut M10 | | | pcs | | | 60,000 | | 60,3000 | |
|  | | | 2874115842760 | | Hexagon nut M12 | | | pcs | | | 8,000 | | 8,0400 | |
|  | | | 2874135840405 | | Standard hexagonal nuts M 6 | | | pcs | | | 2,000 | | 2,0100 | |
|  | | | 2874115820390 | | Hexagon head screws 10 x 35 mm, gr 4.8 | | | pcs | | | 60,000 | | 60,3000 | |
|  | | | 2874115827556 | | Foundation bolt M12x160 | | | pcs | | | 8,000 | | 8,0400 | |
|  | | | 2874115820089 | | Hexagon head screws 6 x 60 mm | | | pcs | | | 2,000 | | 2,0100 | |
|  | | | 3110500002401 | | Welding machine 28-35 Kw | | | hr | | | 0,150 | | 0,1500 | |
|  | | | 2952270007602 | | Wire Rope Hoist 1,5 tf | | | hr | | | 0,300 | | 0,3000 | |
| **95** | | | **VC18A** | | **Installation of a special, modulated air conditioning unit, type ACM-5, for mixing, filtering, heating, humidification, cooling, post-heating, ventilation, distribution, noise attenuation** | | | **pcs** | | |  | | **2,000** | |
|  | | | 7136060011900 | | Ventilation and air conditioning installer | | | mh | | | 56,740 | | 113,4800 | |
|  | | | 2710403700053 | | hot rolled wide steel OL 37 20 x 2.0 mm (steel strip) | | | kg | | | 0,500 | | 1,0050 | |
|  | | | 2651122100024 | | Portland cement P 40 bags S388 | | | kg | | | 1,500 | | 3,0150 | |
|  | | | 2430226100814 | | Anti-Corrosion Primer G 355-6 | | | kg | | | 0,250 | | 0,5025 | |
|  | | | 2112517330399 | | Type I Pressboard, 3.3 mm | | | kg | | | 0,150 | | 0,3015 | |
|  | | | 2874115842702 | | Hexagon nut M10 | | | pcs | | | 60,000 | | 120,6000 | |
|  | | | 2874135840405 | | Standard hexagonal nuts M 6 | | | pcs | | | 8,000 | | 16,0800 | |
|  | | | 2874115842760 | | Hexagon nut M12 | | | pcs | | | 16,000 | | 32,1600 | |
|  | | | 2874115820390 | | Hexagon head screws 10 x 35 mm, gr 4.8 | | | pcs | | | 60,000 | | 120,6000 | |
|  | | | 2874115827556 | | Foundation bolt M12x160 | | | pcs | | | 16,000 | | 32,1600 | |
|  | | | 2874115820089 | | Hexagon head screws 6 x 60 mm | | | pcs | | | 8,000 | | 16,0800 | |
|  | | | 3110500002401 | | Welding machine 28-35 Kw | | | hr | | | 0,400 | | 0,8000 | |
|  | | | 2952270007602 | | Wire Rope Hoist 1,5 tf | | | hr | | | 0,500 | | 1,0000 | |
| **96** | | | **IA37A** | | **Circulation pump (recirculation) mounted on the existing pipe, by screwing, with a diameter of up to 1", including / excluding Pipe, Dutch connection** | | | **pcs** | | |  | | **1,000** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 2,600 | | 2,6000 | |
|  | | | 1714227322940 | | Sealing Hemp | | | kg | | | 0,060 | | 0,0600 | |
|  | | | 2430126100338 | | Sealant solution | | | kg | | | 0,120 | | 0,1200 | |
|  | | | 1711317306661 | | Cotton swab | | | kg | | | 0,050 | | 0,0500 | |
|  | | | 2413547308164 | | Technical calcium carbide (carbide) S102 | | | kg | | | 0,320 | | 0,3200 | |
| **97** | | | **VB02A2** | | **Adjustment damper, butterfly, mounted on rectangular channels type CFR-I, CFR-II, with perimeter 1000 - 1600 mm, manufacturing in centralized workshops / Excludes "galvanized sheet or aluminum 0.5; 1.0; 1.5 mm" "Cornier 20x20x3" / Damper with electromagnetic drive** | | | **pcs** | | |  | | **2,000** | |
|  | | | 7136060011900 | | Ventilation and air conditioning installer | | | mh | | | 3,250 | | 6,5000 | |
|  | | | 2710403701203 | | 4x20 mm hot rolled steel strip | | | kg | | | 0,210 | | 0,4200 | |
|  | | | 2413547308164 | | Technical calcium carbide (carbide) S102 | | | kg | | | 0,067 | | 0,1340 | |
|  | | | 2521306716872 | | Plain PVC plastic film G = 0.3 mm wide >1000 S 8737 | | | kg | | | 0,015 | | 0,0300 | |
|  | | | 2112517330399 | | Type I Pressboard, 3.3 mm | | | kg | | | 0,025 | | 0,0500 | |
|  | | | 2874125895015 | | Rivet with semi-round head 6 x 10 mm | | | kg | | | 0,017 | | 0,0340 | |
|  | | | 2710603420201 | | hot rolled square steel D = 14 mm | | | kg | | | 0,085 | | 0,1700 | |
|  | | | 2710603402869 | | hot rolled round steel dn 25 mm | | | kg | | | 0,095 | | 0,1900 | |
|  | | | 2411115904512 | | Technical oxygen gas S2031 | | | m3 | | | 0,050 | | 0,1000 | |
|  | | | 2874115842659 | | Semi-precise hex nuts S 4071 M 5 gr. 5 | | | pcs | | | 8,000 | | 16,0000 | |
|  | | | 2874135840405 | | Standard hexagonal nuts M 6 | | | pcs | | | 28,000 | | 56,0000 | |
|  | | | 2735725903453 | | Welding wire, regular dn=3.25 | | | kg | | | 0,400 | | 0,8000 | |
|  | | | 2710403604481 | | Mechanical construction board 3x1000x2000 | | | kg | | | 0,370 | | 0,7400 | |
|  | | | 2430116103294 | | Lead paint v.351-3 NTR 90 | | | kg | | | 0,150 | | 0,3000 | |
|  | | | 2874115883421 | | Standard hexagonal nuts M 10 | | | pcs | | | 1,000 | | 2,0000 | |
|  | | | 2874125895163 | | Standard hexagonal nuts M 5 | | | pcs | | | 8,000 | | 16,0000 | |
|  | | | 2874125881198 | | Flat washer for metal M 6 | | | pcs | | | 28,000 | | 56,0000 | |
|  | | | 2874115800390 | | Hexagon head screws 6 x 30 mm | | | pcs | | | 1,000 | | 2,0000 | |
|  | | | 2874115804669 | | Hexagon head screws M 8 x 30 gr. 6.8 | | | pcs | | | 1,000 | | 2,0000 | |
|  | | | 2874115895187 | | Hexagon head screws M 5 x 16 mm | | | pcs | | | 8,000 | | 16,0000 | |
|  | | | 2874115819963 | | Hexagon head screws 6 x 25 mm | | | pcs | | | 28,000 | | 56,0000 | |
|  | | | 3110500002401 | | Welding machine 28-35 Kw | | | hr | | | 0,150 | | 0,3000 | |
|  | | | 2922140006702 | | Portable hoist crane | | | hr | | | 0,020 | | 0,0400 | |
| **98** | | | **VB18B** | | **Noise machine, rectangular with perimeter 2000 - 3200 mm** | | | **pcs** | | |  | | **4,000** | |
|  | | | 7136060011900 | | Ventilation and air conditioning installer | | | mh | | | 1,300 | | 5,2000 | |
|  | | | 2112517330399 | | Type I Pressboard, 3.3 mm | | | kg | | | 0,060 | | 0,2400 | |
|  | | | 2874135840405 | | Standard hexagonal nuts M 6 | | | pcs | | | 32,000 | | 128,0000 | |
|  | | | 2874115883938 | | Standard hexagonal nuts M 6 | | | pcs | | | 32,000 | | 128,0000 | |
|  | | | 2874115819999 | | Hexagon head screws 6 x 35 mm | | | pcs | | | 32,000 | | 128,0000 | |
| **99** | | | **VB02A2** | | **Butterfly valve, mounted on rectangular ducts type CFR-I, CFR-II, with perimeter 1000 - 1600 mm, manufactured in centralized workshops / Excludes "galvanized sheet or aluminum 0.5; 1.0; 1.5 mm" "Cornier 20x20x3" / Fireproof valve** | | | **pcs** | | |  | | **4,000** | |
|  | | | 7136060011900 | | Ventilation and air conditioning installer | | | mh | | | 3,250 | | 13,0000 | |
|  | | | 2710403701203 | | 4x20 mm hot rolled steel strip | | | kg | | | 0,210 | | 0,8400 | |
|  | | | 2413547308164 | | Technical calcium carbide (carbide) S102 | | | kg | | | 0,067 | | 0,2680 | |
|  | | | 2521306716872 | | Plain PVC plastic film G = 0.3 mm wide >1000 S 8737 | | | kg | | | 0,015 | | 0,0600 | |
|  | | | 2112517330399 | | Type I Pressboard, 3.3 mm | | | kg | | | 0,025 | | 0,1000 | |
|  | | | 2874125895015 | | Rivet with semi-round head 6 x 10 mm | | | kg | | | 0,017 | | 0,0680 | |
|  | | | 2710603420201 | | hot rolled square steel D = 14 mm | | | kg | | | 0,085 | | 0,3400 | |
|  | | | 2710603402869 | | hot rolled round steel dn 25 mm | | | kg | | | 0,095 | | 0,3800 | |
|  | | | 2411115904512 | | Technical oxygen gas S2031 | | | m3 | | | 0,050 | | 0,2000 | |
|  | | | 2874115842659 | | Semi-precise hex nuts S 4071 M 5 gr. 5 | | | pcs | | | 8,000 | | 32,0000 | |
|  | | | 2874135840405 | | Standard hexagonal nuts M 6 | | | pcs | | | 28,000 | | 112,0000 | |
|  | | | 2735725903453 | | Welding wire, regular dn=3.25 | | | kg | | | 0,400 | | 1,6000 | |
|  | | | 2710403604481 | | Mechanical construction board 3x1000x2000 | | | kg | | | 0,370 | | 1,4800 | |
|  | | | 2430116103294 | | Lead paint v.351-3 NTR 90 | | | kg | | | 0,150 | | 0,6000 | |
|  | | | 2874115883421 | | Standard hexagonal nuts M 10 | | | pcs | | | 1,000 | | 4,0000 | |
|  | | | 2874125895163 | | Standard hexagonal nuts M 5 | | | pcs | | | 8,000 | | 32,0000 | |
|  | | | 2874125881198 | | Flat washer for metal M 6 | | | pcs | | | 28,000 | | 112,0000 | |
|  | | | 2874115800390 | | Hexagon head screws 6 x 30 mm | | | pcs | | | 1,000 | | 4,0000 | |
|  | | | 2874115804669 | | Hexagon head screws M 8 x 30 gr. 6.8 | | | pcs | | | 1,000 | | 4,0000 | |
|  | | | 2874115895187 | | Hexagon head screws M 5 x 16 mm | | | pcs | | | 8,000 | | 32,0000 | |
|  | | | 2874115819963 | | Hexagon head screws 6 x 25 mm | | | pcs | | | 28,000 | | 112,0000 | |
|  | | | 3110500002401 | | Welding machine 28-35 Kw | | | hr | | | 0,150 | | 0,6000 | |
|  | | | 2922140006702 | | Portable hoist crane | | | hr | | | 0,020 | | 0,0800 | |
|  | |  | |  | | |  | | |  | |  | | |
|  | | |  | | *Total* | | |  | | |  | |  | |
|  | | |  | | **Total K1-V1; K1ext** | | |  | | | | | | |
| **2.2.2. K2-V2** | | | | | | | | | | | | | | |
| **100** | | | **VC16C** | | **Installation of the partial air treatment unit in the room, type ALTPA, through suction, filtration, ventilation, heating, cooling, discharge, having a treated air flow of 11,000 - 17,000 mc/h** | | | **pcs** | | |  | | **1,000** | |
|  | | | 7136060011900 | | Ventilation and air conditioning installer | | | mh | | | 85,570 | | 85,5700 | |
|  | | | 2710403700053 | | hot rolled wide steel OL 37 20 x 2.0 mm (steel strip) | | | kg | | | 0,500 | | 0,5015 | |
|  | | | 2651122100024 | | Portland cement P 40 bags S388 | | | kg | | | 2,000 | | 2,0060 | |
|  | | | 2430226100814 | | Anti-Corrosion Primer G 355-6 | | | kg | | | 0,250 | | 0,2507 | |
|  | | | 2112517330399 | | Type I Pressboard, 3.3 mm | | | kg | | | 0,150 | | 0,1504 | |
|  | | | 2874115842702 | | Hexagon nut M10 | | | pcs | | | 100,000 | | 100,3000 | |
|  | | | 2874115842760 | | Hexagon nut M12 | | | pcs | | | 16,000 | | 16,0480 | |
|  | | | 2874135840405 | | Standard hexagonal nuts M 6 | | | pcs | | | 2,000 | | 2,0060 | |
|  | | | 2874115820390 | | Hexagon head screws 10 x 35 mm, gr 4.8 | | | pcs | | | 100,000 | | 100,3000 | |
|  | | | 2874115827556 | | Foundation bolt M12x160 | | | pcs | | | 16,000 | | 16,0480 | |
|  | | | 2874115820089 | | Hexagon head screws 6 x 60 mm | | | pcs | | | 2,000 | | 2,0060 | |
|  | | | 3110500002401 | | Welding machine 28-35 Kw | | | hr | | | 0,250 | | 0,2500 | |
|  | | | 2952270007602 | | Wire Rope Hoist 1,5 tf | | | hr | | | 0,500 | | 0,5000 | |
|  | |  | |  | | |  | | |  | |  | | |
|  | | |  | | *Total* | | |  | | |  | |  | |
|  | | |  | | **Total K2-V2** | | |  | | | | | | |
| **2.2.3. K2ext** | | | | | | | | | | | | | | |
| **101** | | | **VC18A** | | **Installation of a special, modulated air conditioning unit, type ACM-5, for mixing, filtering, heating, humidification, cooling, post-heating, ventilation, distribution, noise attenuation** | | | **pcs** | | |  | | **2,000** | |
|  | | | 7136060011900 | | Ventilation and air conditioning installer | | | mh | | | 56,740 | | 113,4800 | |
|  | | | 2710403700053 | | hot rolled wide steel OL 37 20 x 2.0 mm (steel strip) | | | kg | | | 0,500 | | 1,0050 | |
|  | | | 2651122100024 | | Portland cement P 40 bags S388 | | | kg | | | 1,500 | | 3,0150 | |
|  | | | 2430226100814 | | Anti-Corrosion Primer G 355-6 | | | kg | | | 0,250 | | 0,5025 | |
|  | | | 2112517330399 | | Type I Pressboard, 3.3 mm | | | kg | | | 0,150 | | 0,3015 | |
|  | | | 2874115842702 | | Hexagon nut M10 | | | pcs | | | 60,000 | | 120,6000 | |
|  | | | 2874135840405 | | Standard hexagonal nuts M 6 | | | pcs | | | 8,000 | | 16,0800 | |
|  | | | 2874115842760 | | Hexagon nut M12 | | | pcs | | | 16,000 | | 32,1600 | |
|  | | | 2874115820390 | | Hexagon head screws 10 x 35 mm, gr 4.8 | | | pcs | | | 60,000 | | 120,6000 | |
|  | | | 2874115827556 | | Foundation bolt M12x160 | | | pcs | | | 16,000 | | 32,1600 | |
|  | | | 2874115820089 | | Hexagon head screws 6 x 60 mm | | | pcs | | | 8,000 | | 16,0800 | |
|  | | | 3110500002401 | | Welding machine 28-35 Kw | | | hr | | | 0,400 | | 0,8000 | |
|  | | | 2952270007602 | | Wire Rope Hoist 1,5 tf | | | hr | | | 0,500 | | 1,0000 | |
|  | |  | |  | | |  | | |  | |  | | |
|  | | |  | | *Total* | | |  | | |  | |  | |
|  | | |  | | **Total K2ext** | | |  | | | | | | |
| **2.2.4. K3-V3** | | | | | | | | | | | | | | |
| **102** | | | **VC16C** | | **Installation of the partial air treatment unit in the room, type ALTPA, through suction, filtration, ventilation, heating, cooling, discharge, having a treated air flow of 11,000 - 17,000 mc/h** | | | **pcs** | | |  | | **1,000** | |
|  | | | 7136060011900 | | Ventilation and air conditioning installer | | | mh | | | 85,570 | | 85,5700 | |
|  | | | 2710403700053 | | hot rolled wide steel OL 37 20 x 2.0 mm (steel strip) | | | kg | | | 0,500 | | 0,5015 | |
|  | | | 2651122100024 | | Portland cement P 40 bags S388 | | | kg | | | 2,000 | | 2,0060 | |
|  | | | 2430226100814 | | Anti-Corrosion Primer G 355-6 | | | kg | | | 0,250 | | 0,2507 | |
|  | | | 2112517330399 | | Type I Pressboard, 3.3 mm | | | kg | | | 0,150 | | 0,1504 | |
|  | | | 2874115842702 | | Hexagon nut M10 | | | pcs | | | 100,000 | | 100,3000 | |
|  | | | 2874115842760 | | Hexagon nut M12 | | | pcs | | | 16,000 | | 16,0480 | |
|  | | | 2874135840405 | | Standard hexagonal nuts M 6 | | | pcs | | | 2,000 | | 2,0060 | |
|  | | | 2874115820390 | | Hexagon head screws 10 x 35 mm, gr 4.8 | | | pcs | | | 100,000 | | 100,3000 | |
|  | | | 2874115827556 | | Foundation bolt M12x160 | | | pcs | | | 16,000 | | 16,0480 | |
|  | | | 2874115820089 | | Hexagon head screws 6 x 60 mm | | | pcs | | | 2,000 | | 2,0060 | |
|  | | | 3110500002401 | | Welding machine 28-35 Kw | | | hr | | | 0,250 | | 0,2500 | |
|  | | | 2952270007602 | | Wire Rope Hoist 1,5 tf | | | hr | | | 0,500 | | 0,5000 | |
|  | |  | |  | | |  | | |  | |  | | |
|  | | |  | | *Total* | | |  | | |  | |  | |
|  | | |  | | **Total K3-V3** | | |  | | | | | | |
| **2.2.5. K3ext** | | | | | | | | | | | | | | |
| **103** | | | **VC18A** | | **Installation of a special, modulated air conditioning unit, type ACM-5, for mixing, filtering, heating, humidification, cooling, post-heating, ventilation, distribution, noise attenuation** | | | **pcs** | | |  | | **2,000** | |
|  | | | 7136060011900 | | Ventilation and air conditioning installer | | | mh | | | 56,740 | | 113,4800 | |
|  | | | 2710403700053 | | hot rolled wide steel OL 37 20 x 2.0 mm (steel strip) | | | kg | | | 0,500 | | 1,0050 | |
|  | | | 2651122100024 | | Portland cement P 40 bags S388 | | | kg | | | 1,500 | | 3,0150 | |
|  | | | 2430226100814 | | Anti-Corrosion Primer G 355-6 | | | kg | | | 0,250 | | 0,5025 | |
|  | | | 2112517330399 | | Type I Pressboard, 3.3 mm | | | kg | | | 0,150 | | 0,3015 | |
|  | | | 2874115842702 | | Hexagon nut M10 | | | pcs | | | 60,000 | | 120,6000 | |
|  | | | 2874135840405 | | Standard hexagonal nuts M 6 | | | pcs | | | 8,000 | | 16,0800 | |
|  | | | 2874115842760 | | Hexagon nut M12 | | | pcs | | | 16,000 | | 32,1600 | |
|  | | | 2874115820390 | | Hexagon head screws 10 x 35 mm, gr 4.8 | | | pcs | | | 60,000 | | 120,6000 | |
|  | | | 2874115827556 | | Foundation bolt M12x160 | | | pcs | | | 16,000 | | 32,1600 | |
|  | | | 2874115820089 | | Hexagon head screws 6 x 60 mm | | | pcs | | | 8,000 | | 16,0800 | |
|  | | | 3110500002401 | | Welding machine 28-35 Kw | | | hr | | | 0,400 | | 0,8000 | |
|  | | | 2952270007602 | | Wire Rope Hoist 1,5 tf | | | hr | | | 0,500 | | 1,0000 | |
| **104** | | | **08-02-412-2** | | **Insertion of conductors into pipes and hoses: total cross-section up to 6 mm2** | | | **100 m** | | |  | | **1,070** | |
|  | | | 1 | | Working | | | mh | | | 6,740 | | 7,2118 | |
|  | | | 1011764 | | Fine talc, cat. I | | | t | | | 0,0006 | | 0,0006 | |
|  | | | 1019852 | | Paint | | | kg | | | 0,020 | | 0,0214 | |
|  | | | 5009041 | | Stringing device - branching | | | 100 pcs | | | 0,310 | | 0,3317 | |
|  | | | 5009056 | | Insulation caps | | | 10 pcs | | | 0,800 | | 0,8560 | |
|  | | | 5009061 | | Insulation sheet | | | pcs | | | 12,200 | | 13,0540 | |
|  | | | 5009140 | | Connection plugs | | | 100 pcs | | | 0,050 | | 0,0535 | |
|  | | | 5009500 | | Marking sheets | | | 100 pcs | | | 0,020 | | 0,0214 | |
|  | | | 5440089 | | Insulating adhesive tape on polycasin compound, brand "ЛСЭПЛ", width 20-30 mm, thickness from 0.14 to 0.19 mminclusive | | | kg | | | 0,160 | | 0,1712 | |
|  | | | 021102 | | Crane on a car chassis for installation works of technological equipment (except main pipelines), 10 t | | | hr | | | 0,020 | | 0,0214 | |
|  | | | 400002 | | Boarded cars, tonnage up to 8 t | | | hr | | | 0,020 | | 0,0214 | |
| **105** | | |  | | **Defrost cable** | | | **m** | | |  | | **107,000** | |
|  | | | 60090 | | Defrost cable | | | m | | | 1,000 | | 107,0000 | |
| **106** | | | **VB02C2** | | **Butterfly damper, mounted on rectangular ducts type CFR-I, CFR-II, with perimeter 3200 - 4000 mm, manufactured in centralized workshops / Excludes "galvanized sheet or aluminum 0.5; 1.0; 1.5 mm" "Cornier 25x25x3" / Fire damper with electromagnetic actuation** | | | **pcs** | | |  | | **9,000** | |
|  | | | 7136060011900 | | Ventilation and air conditioning installer | | | mh | | | 5,530 | | 49,7700 | |
|  | | | 2710403701203 | | 4x20 mm hot rolled steel strip | | | kg | | | 0,210 | | 1,8900 | |
|  | | | 2413547308164 | | Technical calcium carbide (carbide) S102 | | | kg | | | 0,270 | | 2,4300 | |
|  | | | 2873155903088 | | Special electrodes, Cu-Zn-Si. | | | kg | | | 0,350 | | 3,1500 | |
|  | | | 2521306716872 | | Plain PVC plastic film G = 0.3 mm wide >1000 S 8737 | | | kg | | | 0,015 | | 0,1350 | |
|  | | | 2112517330399 | | Type I Pressboard, 3.3 mm | | | kg | | | 0,039 | | 0,3510 | |
|  | | | 2874125895015 | | Rivet with semi-round head 6 x 10 mm | | | kg | | | 0,023 | | 0,2070 | |
|  | | | 2710603420378 | | hot rolled square steel D = 16 mm | | | kg | | | 0,210 | | 1,8900 | |
|  | | | 2710603402869 | | hot rolled round steel dn 25 mm | | | kg | | | 0,095 | | 0,8550 | |
|  | | | 2411115904512 | | Technical oxygen gas S2031 | | | m3 | | | 0,090 | | 0,8100 | |
|  | | | 2874115842659 | | Semi-precise hex nuts S 4071 M 5 gr. 5 | | | pcs | | | 8,000 | | 72,0000 | |
|  | | | 2874135840405 | | Standard hexagonal nuts M 6 | | | pcs | | | 48,000 | | 432,0000 | |
|  | | | 2735725903453 | | Welding wire, regular dn=3.25 | | | kg | | | 0,300 | | 2,7000 | |
|  | | | 2710403604481 | | Mechanical construction board 3x1000x2000 | | | kg | | | 0,370 | | 3,3300 | |
|  | | | 2430116103294 | | Lead paint v.351-3 NTR 90 | | | kg | | | 0,300 | | 2,7000 | |
|  | | | 2874115883421 | | Standard hexagonal nuts M 10 | | | pcs | | | 1,000 | | 9,0000 | |
|  | | | 2874125895163 | | Standard hexagonal nuts M 5 | | | pcs | | | 8,000 | | 72,0000 | |
|  | | | 2874125881198 | | Flat washer for metal M 6 | | | pcs | | | 48,000 | | 432,0000 | |
|  | | | 2874115800390 | | Hexagon head screws 6 x 30 mm | | | pcs | | | 1,000 | | 9,0000 | |
|  | | | 2874115804669 | | Hexagon head screws M 8 x 30 gr. 6.8 | | | pcs | | | 1,000 | | 9,0000 | |
|  | | | 2874115895187 | | Hexagon head screws M 5 x 16 mm | | | pcs | | | 8,000 | | 72,0000 | |
|  | | | 2874115819963 | | Hexagon head screws 6 x 25 mm | | | pcs | | | 48,000 | | 432,0000 | |
|  | | | 3110500002401 | | Welding machine 28-35 Kw | | | hr | | | 0,320 | | 2,8800 | |
|  | | | 2922140006702 | | Portable hoist crane | | | hr | | | 0,030 | | 0,2700 | |
| **107** | | | **VB02A2** | | **Butterfly damper, mounted on rectangular ducts type CFR-I, CFR-II, with perimeter 1000 - 1600 mm, manufactured in centralized workshops / Excludes "galvanized sheet or aluminum 0.5; 1.0; 1.5 mm" "Cornier 20x20x3" / Fire damper with electromagnetic actuation** | | | **pcs** | | |  | | **2,000** | |
|  | | | 7136060011900 | | Ventilation and air conditioning installer | | | mh | | | 3,250 | | 6,5000 | |
|  | | | 2710403701203 | | 4x20 mm hot rolled steel strip | | | kg | | | 0,210 | | 0,4200 | |
|  | | | 2413547308164 | | Technical calcium carbide (carbide) S102 | | | kg | | | 0,067 | | 0,1340 | |
|  | | | 2521306716872 | | Plain PVC plastic film G = 0.3 mm wide >1000 S 8737 | | | kg | | | 0,015 | | 0,0300 | |
|  | | | 2112517330399 | | Type I Pressboard, 3.3 mm | | | kg | | | 0,025 | | 0,0500 | |
|  | | | 2874125895015 | | Rivet with semi-round head 6 x 10 mm | | | kg | | | 0,017 | | 0,0340 | |
|  | | | 2710603420201 | | hot rolled square steel D = 14 mm | | | kg | | | 0,085 | | 0,1700 | |
|  | | | 2710603402869 | | hot rolled round steel dn 25 mm | | | kg | | | 0,095 | | 0,1900 | |
|  | | | 2411115904512 | | Technical oxygen gas S2031 | | | m3 | | | 0,050 | | 0,1000 | |
|  | | | 2874115842659 | | Semi-precise hex nuts S 4071 M 5 gr. 5 | | | pcs | | | 8,000 | | 16,0000 | |
|  | | | 2874135840405 | | Standard hexagonal nuts M 6 | | | pcs | | | 28,000 | | 56,0000 | |
|  | | | 2735725903453 | | Welding wire, regular dn=3.25 | | | kg | | | 0,400 | | 0,8000 | |
|  | | | 2710403604481 | | Mechanical construction board 3x1000x2000 | | | kg | | | 0,370 | | 0,7400 | |
|  | | | 2430116103294 | | Lead paint v.351-3 NTR 90 | | | kg | | | 0,150 | | 0,3000 | |
|  | | | 2874115883421 | | Standard hexagonal nuts M 10 | | | pcs | | | 1,000 | | 2,0000 | |
|  | | | 2874125895163 | | Standard hexagonal nuts M 5 | | | pcs | | | 8,000 | | 16,0000 | |
|  | | | 2874125881198 | | Flat washer for metal M 6 | | | pcs | | | 28,000 | | 56,0000 | |
|  | | | 2874115800390 | | Hexagon head screws 6 x 30 mm | | | pcs | | | 1,000 | | 2,0000 | |
|  | | | 2874115804669 | | Hexagon head screws M 8 x 30 gr. 6.8 | | | pcs | | | 1,000 | | 2,0000 | |
|  | | | 2874115895187 | | Hexagon head screws M 5 x 16 mm | | | pcs | | | 8,000 | | 16,0000 | |
|  | | | 2874115819963 | | Hexagon head screws 6 x 25 mm | | | pcs | | | 28,000 | | 56,0000 | |
|  | | | 3110500002401 | | Welding machine 28-35 Kw | | | hr | | | 0,150 | | 0,3000 | |
|  | | | 2922140006702 | | Portable hoist crane | | | hr | | | 0,020 | | 0,0400 | |
| **108** | | | **VB02C2** | | **Adjustment damper, butterfly, mounted on rectangular ducts type CFR-I, CFR-II, with perimeter 3200 - 4000 mm, manufacturing in centralized workshops / Excludes "galvanized sheet or aluminum 0.5; 1.0; 1.5 mm" "Cornier 25x25x3" / SRU damper with electromagnetic drive** | | | **pcs** | | |  | | **3,000** | |
|  | | | 7136060011900 | | Ventilation and air conditioning installer | | | mh | | | 5,530 | | 16,5900 | |
|  | | | 2710403701203 | | 4x20 mm hot rolled steel strip | | | kg | | | 0,210 | | 0,6300 | |
|  | | | 2413547308164 | | Technical calcium carbide (carbide) S102 | | | kg | | | 0,270 | | 0,8100 | |
|  | | | 2873155903088 | | Special electrodes, Cu-Zn-Si. | | | kg | | | 0,350 | | 1,0500 | |
|  | | | 2521306716872 | | Plain PVC plastic film G = 0.3 mm wide >1000 S 8737 | | | kg | | | 0,015 | | 0,0450 | |
|  | | | 2112517330399 | | Type I Pressboard, 3.3 mm | | | kg | | | 0,039 | | 0,1170 | |
|  | | | 2874125895015 | | Rivet with semi-round head 6 x 10 mm | | | kg | | | 0,023 | | 0,0690 | |
|  | | | 2710603420378 | | hot rolled square steel D = 16 mm | | | kg | | | 0,210 | | 0,6300 | |
|  | | | 2710603402869 | | hot rolled round steel dn 25 mm | | | kg | | | 0,095 | | 0,2850 | |
|  | | | 2411115904512 | | Technical oxygen gas S2031 | | | m3 | | | 0,090 | | 0,2700 | |
|  | | | 2874115842659 | | Semi-precise hex nuts S 4071 M 5 gr. 5 | | | pcs | | | 8,000 | | 24,0000 | |
|  | | | 2874135840405 | | Standard hexagonal nuts M 6 | | | pcs | | | 48,000 | | 144,0000 | |
|  | | | 2735725903453 | | Welding wire, regular dn=3.25 | | | kg | | | 0,300 | | 0,9000 | |
|  | | | 2710403604481 | | Mechanical construction board 3x1000x2000 | | | kg | | | 0,370 | | 1,1100 | |
|  | | | 2430116103294 | | Lead paint v.351-3 NTR 90 | | | kg | | | 0,300 | | 0,9000 | |
|  | | | 2874115883421 | | Standard hexagonal nuts M 10 | | | pcs | | | 1,000 | | 3,0000 | |
|  | | | 2874125895163 | | Standard hexagonal nuts M 5 | | | pcs | | | 8,000 | | 24,0000 | |
|  | | | 2874125881198 | | Flat washer for metal M 6 | | | pcs | | | 48,000 | | 144,0000 | |
|  | | | 2874115800390 | | Hexagon head screws 6 x 30 mm | | | pcs | | | 1,000 | | 3,0000 | |
|  | | | 2874115804669 | | Hexagon head screws M 8 x 30 gr. 6.8 | | | pcs | | | 1,000 | | 3,0000 | |
|  | | | 2874115895187 | | Hexagon head screws M 5 x 16 mm | | | pcs | | | 8,000 | | 24,0000 | |
|  | | | 2874115819963 | | Hexagon head screws 6 x 25 mm | | | pcs | | | 48,000 | | 144,0000 | |
|  | | | 3110500002401 | | Welding machine 28-35 Kw | | | hr | | | 0,320 | | 0,9600 | |
|  | | | 2922140006702 | | Portable hoist crane | | | hr | | | 0,030 | | 0,0900 | |
|  | |  | |  | | |  | | |  | |  | | |
|  | | |  | | *Total* | | |  | | |  | |  | |
|  | | |  | | **Total K3ext** | | |  | | | | | | |
| **2.2.6. K4** | | | | | | | | | | | | | | |
| **109** | | | **VC37B** | | **Installation of household air conditioners (split-system) engine power up to 4.5 kW, on telescopic truck / copper pipes, foamed rubber tube excluded / k=0.5 for installation of indoor units** | | | **pcs** | | |  | | **2,000** | |
|  | | | 7136060011900 | | Ventilation and air conditioning installer | | | mh | | | 3,300 | | 3,3000 | |
|  | | | 2811236305075 | | Console | | | kg | | | 5,000 | | 5,2500 | |
|  | | | 2521305734008 | | Cable channels 60x40 T-Plast, straight | | | m | | | 0,500 | | 0,5250 | |
|  | | | 2521305734009 | | Cable channels 16x16 T-Plast, straight | | | m | | | 2,000 | | 2,1000 | |
|  | | | 2051142950706 | | Plastic spacers 6x40mm | | | pcs | | | 15,000 | | 15,7500 | |
|  | | | 2874115850014 | | Anchor bolt | | | kg | | | 0,176 | | 0,1848 | |
|  | | | 2411117322835 | | Freon | | | kg | | | 0,900 | | 0,9450 | |
|  | | | 2940520007610 | | Perforator electric | | | hr | | | 0,350 | | 0,3500 | |
|  | | | 2952270007609 | | Electric drill | | | hr | | | 0,080 | | 0,0800 | |
|  | | | 3410520005700 | | Telescopic tower crane height 30-35m lifting capacity 350 kg | | | hr | | | 0,980 | | 0,9800 | |
| **110** | | | **VC37D** | | **Installation of household air conditioners (split-system) engine power up to 8.5 kW, from stairs / copper pipes, foamed rubber tube excluded / k=0.5 for installation of outdoor units** | | | **pcs** | | |  | | **1,000** | |
|  | | | 7136060011900 | | Ventilation and air conditioning installer | | | mh | | | 4,000 | | 2,0000 | |
|  | | | 2811236305075 | | Console | | | kg | | | 8,000 | | 4,2000 | |
|  | | | 2521305734008 | | Cable channels 60x40 T-Plast, straight | | | m | | | 0,500 | | 0,2625 | |
|  | | | 2521305734009 | | Cable channels 16x16 T-Plast, straight | | | m | | | 2,000 | | 1,0500 | |
|  | | | 2051142950706 | | Plastic spacers 6x40mm | | | pcs | | | 15,000 | | 7,8750 | |
|  | | | 2874115850014 | | Anchor bolt | | | kg | | | 0,264 | | 0,1386 | |
|  | | | 2411117322835 | | Freon | | | kg | | | 0,900 | | 0,4725 | |
|  | | | 2940520007610 | | Perforator electric | | | hr | | | 0,410 | | 0,2050 | |
|  | | | 2952270007609 | | Electric drill | | | hr | | | 0,120 | | 0,0600 | |
|  | | | 2952270006618 | | Electric winch, pulling force 5.79 (059) kN (t) | | | hr | | | 0,140 | | 0,0700 | |
| **111** | | |  | | **Insulated copper pipe Insul-Tube d. 9.52** | | | **m** | | |  | | **24,000** | |
|  | | | 600c-9 | | Insulated copper pipe Insul-Tube d. 9.52 | | | m | | | 1,000 | | 24,0000 | |
| **112** | | |  | | **Insulated copper pipe Insul-Tube d. 6.35** | | | **m** | | |  | | **24,000** | |
|  | | | 600c-6 | | Insulated copper pipe Insul-Tube d. 6.35 | | | m | | | 1,000 | | 24,0000 | |
|  | |  | |  | | |  | | |  | |  | | |
|  | | |  | | *Total* | | |  | | |  | |  | |
|  | | |  | | **Total K4** | | |  | | | | | | |
| **2.2.7. K5, K6** | | | | | | | | | | | | | | |
| **113** | | | **VC37B** | | **Installation of household air conditioners (split-system) with engine power up to 4.5 kW, on a telescopic truck / excluding copper pipes, foamed rubber tube** | | | **pcs** | | |  | | **2,000** | |
|  | | | 7136060011900 | | Ventilation and air conditioning installer | | | mh | | | 3,300 | | 6,6000 | |
|  | | | 2811236305075 | | Console | | | kg | | | 5,000 | | 10,5000 | |
|  | | | 2521305734008 | | Cable channels 60x40 T-Plast, straight | | | m | | | 0,500 | | 1,0500 | |
|  | | | 2521305734009 | | Cable channels 16x16 T-Plast, straight | | | m | | | 2,000 | | 4,2000 | |
|  | | | 2051142950706 | | Plastic spacers 6x40mm | | | pcs | | | 15,000 | | 31,5000 | |
|  | | | 2874115850014 | | Anchor bolt | | | kg | | | 0,176 | | 0,3696 | |
|  | | | 2411117322835 | | Freon | | | kg | | | 0,900 | | 1,8900 | |
|  | | | 2940520007610 | | Perforator electric | | | hr | | | 0,350 | | 0,7000 | |
|  | | | 2952270007609 | | Electric drill | | | hr | | | 0,080 | | 0,1600 | |
|  | | | 3410520005700 | | Telescopic tower crane height 30-35m lifting capacity 350 kg | | | hr | | | 0,980 | | 1,9600 | |
| **114** | | |  | | **Insulated copper pipe Insul-Tube d. 15.9** | | | **m** | | |  | | **25,000** | |
|  | | | 600c-15 | | Insulated copper pipe Insul-Tube d. 15.9 | | | m | | | 1,000 | | 25,0000 | |
| **115** | | |  | | **Insulated copper pipe Insul-Tube d. 9.52** | | | **m** | | |  | | **25,000** | |
|  | | | 600c-9 | | Insulated copper pipe Insul-Tube d. 9.52 | | | m | | | 1,000 | | 25,0000 | |
|  | |  | |  | | |  | | |  | |  | | |
|  | | |  | | *Total* | | |  | | |  | |  | |
|  | | |  | | **Total K5, K6** | | |  | | | | | | |
| **2.2.8. K7** | | | | | | | | | | | | | | |
| **116** | | | **VC37B** | | **Installation of household air conditioners (split-system) with engine power up to 4.5 kW, on a telescopic truck / excluding copper pipes, foamed rubber tube** | | | **pcs** | | |  | | **3,000** | |
|  | | | 7136060011900 | | Ventilation and air conditioning installer | | | mh | | | 3,300 | | 9,9000 | |
|  | | | 2811236305075 | | Console | | | kg | | | 5,000 | | 15,7500 | |
|  | | | 2521305734008 | | Cable channels 60x40 T-Plast, straight | | | m | | | 0,500 | | 1,5750 | |
|  | | | 2521305734009 | | Cable channels 16x16 T-Plast, straight | | | m | | | 2,000 | | 6,3000 | |
|  | | | 2051142950706 | | Plastic spacers 6x40mm | | | pcs | | | 15,000 | | 47,2500 | |
|  | | | 2874115850014 | | Anchor bolt | | | kg | | | 0,176 | | 0,5544 | |
|  | | | 2411117322835 | | Freon | | | kg | | | 0,900 | | 2,8350 | |
|  | | | 2940520007610 | | Perforator electric | | | hr | | | 0,350 | | 1,0500 | |
|  | | | 2952270007609 | | Electric drill | | | hr | | | 0,080 | | 0,2400 | |
|  | | | 3410520005700 | | Telescopic tower crane height 30-35m lifting capacity 350 kg | | | hr | | | 0,980 | | 2,9400 | |
| **117** | | |  | | **Insulated copper pipe Insul-Tube d. 9.52** | | | **m** | | |  | | **29,000** | |
|  | | | 600c-9 | | Insulated copper pipe Insul-Tube d. 9.52 | | | m | | | 1,000 | | 29,0000 | |
| **118** | | |  | | **Insulated copper pipe Insul-Tube d. 6.35** | | | **m** | | |  | | **29,000** | |
|  | | | 600c-6 | | Insulated copper pipe Insul-Tube d. 6.35 | | | m | | | 1,000 | | 29,0000 | |
| **119** | | | **IA37A** | | **Circulation pump (recirculation) mounted on the existing pipe, by screwing, with a diameter of up to 1", including / excluding Pipe, Dutch connection** | | | **pcs** | | |  | | **1,000** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 2,600 | | 2,6000 | |
|  | | | 1714227322940 | | Sealing Hemp | | | kg | | | 0,060 | | 0,0600 | |
|  | | | 2430126100338 | | Sealant solution | | | kg | | | 0,120 | | 0,1200 | |
|  | | | 1711317306661 | | Cotton swab | | | kg | | | 0,050 | | 0,0500 | |
|  | | | 2413547308164 | | Technical calcium carbide (carbide) S102 | | | kg | | | 0,320 | | 0,3200 | |
| **120** | | | **IA27A** | | **Condensate tank, mounted on a pedestal with a capacity of 500 l** | | | **pcs** | | |  | | **1,000** | |
|  | | | 7136040011749 | | Heating and gas installer | | | mh | | | 6,700 | | 6,7000 | |
|  | | | 2875274401000 | | Flat flange Pn 6 | | | pcs | | | 4,000 | | 4,0000 | |
|  | | | 2513206622020 | | March plate 3.0 mm, 25 at. | | | kg | | | 0,430 | | 0,4300 | |
|  | | | 2874115801148 | | Hexagon head screws M 12x50 mm | | | pcs | | | 16,000 | | 16,0000 | |
|  | | | 2874115842760 | | Hexagon nut M12 | | | pcs | | | 16,000 | | 16,0000 | |
|  | | | 2874125881289 | | Plain washers, flat M 14 | | | pcs | | | 16,000 | | 16,0000 | |
|  | | | 2411115904512 | | Technical oxygen gas S2031 | | | m3 | | | 0,240 | | 0,2400 | |
|  | | | 2413547308164 | | Technical calcium carbide (carbide) S102 | | | kg | | | 0,680 | | 0,6800 | |
|  | | | 2430116103294 | | Lead paint v.351-3 NTR 90 | | | kg | | | 0,550 | | 0,5500 | |
|  | | | 1711317306661 | | Cotton swab | | | kg | | | 0,030 | | 0,0300 | |
|  | | | 2734125900487 | | Welding wire, regular dn=2.5 mm | | | kg | | | 0,210 | | 0,2100 | |
|  | | | 2320166200755 | | Distillate petroleum type 0/200 | | | l | | | 0,175 | | 0,1750 | |
|  | | | 29522700076021 | | Traction device (Wire Rope Hoist) 0.015 MN (1.5 tf) | | | hr | | | 0,030 | | 0,0300 | |
|  | |  | |  | | |  | | |  | |  | | |
|  | | |  | | *Total* | | |  | | |  | |  | |
|  | | |  | | **Total K7** | | |  | | | | | | |
|  | |  | |  | | |  | | |  | |  | | |
|  | | |  | | *Total* | | |  | | |  | |  | |
|  | | |  | | **Total Ventilation** | | |  | | | | | | |
|  | |  | |  | | |  | | |  | |  | | |
|  | | |  | | *Total* | | |  | | |  | |  | |
|  | | |  | | *Social insurance* | | |  | | |  | |  | |
|  | | |  | | *Transport of materials* | | |  | | |  | |  | |
|  | | |  | | *Storage purchase expenses* | | |  | | |  | |  | |
|  | | |  | | *Direct expenses* | | |  | | |  | |  | |
|  | | |  | | *Overhead expenses* | | |  | | |  | |  | |
|  | | |  | | *Total with Overhead Expenses* | | |  | | |  | |  | |
|  | | |  | | *Quote benefit* | | |  | | |  | |  | |
|  | | |  | | **Total Installation work** | | |  | | | | | | |
| **3. Equipment** | | | | | | | | | | | | | | |
| **3.1. heating** | | | | | | | | | | | | | | |
| **121** | | |  | | **Automatic balancing valve with an adjustment range of 0.05-0.25 bar ⌀15 type ASV-PV or analogue** | | | **pcs** | | |  | | **1,000** | |
|  | | | 600ASV-PV-15 | | Automatic balancing valve with an adjustment range of 0.05-0.25 bar ⌀15 type ASV-PV | | | pcs | | | 1,000 | | 1,0000 | |
| **122** | | |  | | **Automatic balancing valve with an adjustment range of 0.05-0.25 bar ⌀20 type ASV-PV or analogue** | | | **pcs** | | |  | | **2,000** | |
|  | | | 600ASV-PV-20 | | Automatic balancing valve with an adjustment range of 0.05-0.25 bar ⌀20 type ASV-PV | | | pcs | | | 1,000 | | 2,0000 | |
| **123** | | |  | | **Manual shut-off valve with the possibility of connecting a ⌀15 impulse tube type ASV-M or similar** | | | **pcs** | | |  | | **1,000** | |
|  | | | 600ASV-M-15 | | Manual shut-off valve with the possibility of connecting a ⌀15 impulse tube type ASV-M | | | pcs | | | 1,000 | | 1,0000 | |
| **124** | | |  | | **Manual shut-off valve with the possibility of connecting a ⌀20 impulse tube type ASV-M or similar** | | | **pcs** | | |  | | **2,000** | |
|  | | | 600ASV-M-20 | | Manual shut-off valve with the possibility of connecting a ⌀20 impulse tube type ASV-M | | | pcs | | | 1,000 | | 2,0000 | |
|  | |  | |  | | |  | | |  | |  | | |
|  | | |  | | *Total* | | |  | | |  | |  | |
|  | | |  | | **Total heating** | | |  | | | | | | |
| **3.2. Ventilation** | | | | | | | | | | | | | | |
| **3.2.1. K1-V1; K1ext** | | | | | | | | | | | | | | |
| **125** | | |  | | **A+ intake and exhaust unit with rotary recuperative mechanism, thermal efficiency 76%, total dimensions 1150x1150x2100, with automatic control system C5 included: L=3240 m3/hour, P=661Pa, complete set: 1. Intake fan L=3240 m3/hour, P=661 Pa; 2. Exhaust fan L=3240 m3/hour, P=653 Pa; 3. Intake filter F7 size 525x510x92mm; 4. Filter on the hood M5 measures 800x400x46 mm; 5. Double-sided heat exchanger DX-G10-03R-0895-0420-270/-10-1x03C 1x04C-26F-M1-CDE-IS1-RC-2x5/8/2x22-150 Qt=10.5 kW, Qx=7.1 kW; 6. Rotary heat exchanger RR-AL-930-L-O-SN (1056x1058x290)-PN-A1, energy efficiency 76% N=0.096 kW; 7. Automatic control unit C5; 8. Remote control C5.1; 9. Air quality sensor; 10. Outdoor temperature sensor; 11. Indoor temperature sensor type VERSO-R-4000-UV-HCDX-R1-F7/M5-C5-L/A or analog** | | | **pcs** | | |  | | **1,000** | |
|  | | | 700/VERSO-R4000 | | A+ intake and exhaust unit with rotary recuperative mechanism, thermal efficiency 76%, total dimensions 1150x1150x2100, with automatic control system C5 included: L=3240 m3/hour, P=661Pa, complete set: 1. Intake fan L=3240 m3/hour, P=661 Pa; 2. Exhaust fan L=3240 m3/hour, P=653 Pa; 3. Intake filter F7 size 525x510x92mm; 4. Filter on the hood M5 measures 800x400x46 mm; 5. Double-sided heat exchanger DX-G10-03R-0895-0420-270/-10-1x03C 1x04C-26F-M1-CDE-IS1-RC-2x5/8/2x22-150 Qt=10.5 kW, Qx=7.1 kW; 6. Rotary heat exchanger RR-AL-930-L-O-SN (1056x1058x290)-PN-A1, energy efficiency 76% N=0.096 kW; 7. Automatic control unit C5; 8. Remote control C5.1; 9. Air quality sensor; 10. Outdoor temperature sensor; 11. Indoor temperature sensor type VERSO-R-4000-UV-HCDX-R1-F7/M5-C5-L/A | | | pcs | | | 1,000 | | 1,0000 | |
| **126** | | |  | | **Outdoor unit for double-sided heat exchanger Qx=15.24 kW, Qt=18.17 kW. Outdoor air temperature when cooling -15\*C, heating -20\*C, Freon R32, N=7.5 kW, A++. Overall dimensions 952x415x1333h. Harness kit KA8142, with anti-vibration mounts for outdoor unit MOU-55HFN8a-KA8142 or analogue** | | | **pcs** | | |  | | **2,000** | |
|  | | | 700MOU-55 | | Outdoor unit for double-sided heat exchanger Qx=15.24 kW, Qt=18.17 kW. Outdoor air temperature when cooling -15\*C, heating -20\*C, Freon R32, N=7.5 kW, A++. Overall dimensions 952x415x1333h. Harness kit KA8142, with anti-vibration mounts for outdoor unit MOU-55HFN8a-KA8142 | | | pcs | | | 1,000 | | 2,0000 | |
| **127** | | |  | | **Condensate drain pump for air conditioners with a capacity of up to 20 kW, power consumption 19W, noise level 26 dB, max vertical flow 12m from pump to water outlet, pump dimensions 62x30x55 mm, float dimensions 67x32x38 mm, EASY FLOW 20 l type or similar** | | | **pcs** | | |  | | **1,000** | |
|  | | | 700EASY-FLOW-20 | | Condensate drain pump for air conditioners with a capacity of up to 20 kW, power consumption 19W, noise level 26 dB, max vertical flow 12m from pump to water outlet, pump dimensions 62x30x55 mm, float dimensions 67x32x38 mm, EASY FLOW 20 l type | | | pcs | | | 1,000 | | 1,0000 | |
| **128** | | |  | | **Electromagnetically actuated damper type SRU-M-500x400+LF24 or analogue** | | | **pcs** | | |  | | **2,000** | |
|  | | | 700SRU-M-500x400 | | Electromagnetically actuated damper type SRU-M-500x400+LF24 | | | pcs | | | 1,000 | | 2,0000 | |
| **129** | | |  | | **Noise attenuator STS-IVR3BA-800-500-700-S or analog** | | | **pcs** | | |  | | **2,000** | |
|  | | | 700STS-800-500-700 | | Shock absorber STS-IVR3BA-800-500-700-S | | | pcs | | | 1,000 | | 2,0000 | |
| **130** | | |  | | **Noise attenuator STS-IVR3BA-800-500-1250-S or analog** | | | **pcs** | | |  | | **2,000** | |
|  | | | 700STS-800-500-1250 | | Shock absorber STS-IVR3BA-800-500-1250-S | | | pcs | | | 1,000 | | 2,0000 | |
| **131** | | |  | | **Normally open fireproof valve 200x150** | | | **pcs** | | |  | | **3,000** | |
|  | | | 700SI-200x150 | | Normally open fireproof valve 200x150 | | | pcs | | | 1,000 | | 3,0000 | |
| **132** | | |  | | **Normally open fireproof valve 150x150** | | | **pcs** | | |  | | **1,000** | |
|  | | | 700SI-150x150 | | Normally open fireproof valve 150x150 | | | pcs | | | 1,000 | | 1,0000 | |
|  | |  | |  | | |  | | |  | |  | | |
|  | | |  | | *Total* | | |  | | |  | |  | |
|  | | |  | | **Total K1-V1; K1ext** | | |  | | | | | | |
| **3.2.2. K2-V2** | | | | | | | | | | | | | | |
| **133** | | |  | | **Inlet and exhaust unit 15/09 on the inlet and 15/12 on the left A+ hood with rotary drive recuperator and freon heat exchanger, thermal efficiency 82% with filter sections for a shooting range. Overall dimensions 8443x1560x2655 automatic control system C5 in complete set: L=14600 m3/hour, P=1208/1517 Pa, complete set. 1) Multifunctional section with damper electric drive LM230A Belimo with flexibility. 2) Filter section with pocket filter F5 490x490x360 (4 pcs) on the inflow. 3) Supply fan section ER63I-4DN.G7.1R L=14600 m3/hour, P=1912Pa; 4) Rotary recuperator section energy efficiency 82.1%; 5) Double-sided heat exchanger DR-HR.W-2.6-1240-900-2R-2-Cu0.4-AI0, 12-AISI304-2-Cu 12/18-E0-1-L-0 Qt=31.99 kW Qx=32.37 kW with drip tray and condensate drain bath. 6) Damper section with a long connection of 2000 mm; 7) Multifunctional section with Belimo LM230A electric actuator damper on the inlet; 8) Multifunctional section with Belimo LM230A electric actuator damper on the hood; 9) Pre-filter section MERV 8 filter on the hood; 10) MERV 14/15 section for dust lead removal, with carbon filter for absorbing gunpowder fumes, chemicals and gases and HEPA filter MERV 13 on the hood; 11) Damper section with a long link of 2000 mm; 12) Fan section with exhaust fan ER71I-4DN.17.1R N=11 kW; 13) External housing for frequency converter made of sheet steel with fan and heating; 14) VCS automation unit; 15) HMITM control panel; 16) Air quality sensor; 17) Outdoor temperature sensor; 18) Indoor temperature sensor** | | | **pcs** | | |  | | **1,000** | |
|  | | | 700/14600 | | Inlet and exhaust unit 15/09 on the inlet and 15/12 on the left A+ hood with rotary drive recuperator and freon heat exchanger, thermal efficiency 82% with filter sections for a shooting range. Overall dimensions 8443x1560x2655 automatic control system C5 in complete set: L=14600 m3/hour, P=1208/1517 Pa, complete set. 1) Multifunctional section with damper electric drive LM230A Belimo with flexibility. 2) Filter section with pocket filter F5 490x490x360 (4 pcs) on the inflow. 3) Supply fan section ER63I-4DN.G7.1R L=14600 m3/hour, P=1912Pa; 4) Rotary recuperator section energy efficiency 82.1%; 5) Double-sided heat exchanger DR-HR.W-2.6-1240-900-2R-2-Cu0.4-AI0, 12-AISI304-2-Cu 12/18-E0-1-L-0 Qt=31.99 kW Qx=32.37 kW with drip tray and condensate drain bath. 6) Damper section with a long connection of 2000 mm; 7) Multifunctional section with Belimo LM230A electric actuator damper on the inlet; 8) Multifunctional section with Belimo LM230A electric actuator damper on the hood; 9) Pre-filter section MERV 8 filter on the hood; 10) MERV 14/15 section for dust lead removal, with carbon filter for absorbing gunpowder fumes, chemicals and gases and HEPA MERV 13 filter on the hood; 11) Damper section with a long connection of 2000 mm; 12) Fan section with exhaust fan ER71I-4DN.17.1R N=11 kW; 13) External housing for frequency converter made of sheet steel with fan and heating; 14) VCS automation unit; 15) HMITM control panel; 16) Air quality sensor; 17) Outdoor temperature sensor; 18) Indoor temperature sensor | | | pcs | | | 1,000 | | 1,0000 | |
|  | |  | |  | | |  | | |  | |  | | |
|  | | |  | | *Total* | | |  | | |  | |  | |
|  | | |  | | **Total K2-V2** | | |  | | | | | | |
| **3.2.3. K2ext** | | | | | | | | | | | | | | |
| **134** | | |  | | **Outdoor unit for double-sided heat exchanger Qx=80 kW, Qt=80 kW, N=20.61 kW. Outdoor air temperature when cooling -15\*C, heating -20\*C, Freon R32, A++. Overall dimensions: 2 pieces 1240x740x1858 with anti-vibration mounts for outdoor unit (8 pcs), frame for KKB 1270x740 height 700mm (2 pcs) type KKB-PUHY-P700YSNW-A1 (PUHY-P350+PUHY-P350) or analog** | | | **pcs** | | |  | | **1,000** | |
|  | | | 700KKB-PUHY-P700 | | Outdoor unit for double-sided heat exchanger Qx=80 kW, Qt=80 kW, N=20.61 kW. Outdoor air temperature when cooling -15\*C, heating -20\*C, Freon R32, A++. Total dimensions: 2 pieces 1240x740x1858 with anti-vibration mounts for outdoor unit (8 pcs), frame for KKB 1270x740 height 700mm (2 pcs) type KKB-PUHY-P700YSNW-A1 (PUHY-P350+PUHY-P350) | | | pcs | | | 1,000 | | 1,0000 | |
|  | |  | |  | | |  | | |  | |  | | |
|  | | |  | | *Total* | | |  | | |  | |  | |
|  | | |  | | **Total K2ext** | | |  | | | | | | |
| **3.2.4. K3-V3** | | | | | | | | | | | | | | |
| **135** | | |  | | **Inlet and exhaust unit 15/09 on the inlet and 15/12 on the left hood A+ with rotary drive recuperator and freon heat exchanger, thermal efficiency 82% with filter sections for a shooting range. Overall dimensions 8443x1560x2655 automatic control system C5 in complete set: L=14600 m3/hour, P=1208/1517 Pa, complete set. 1) Multifunctional section with damper electric drive LM230A Belimo with flexibility. 2) Filter section with pocket filter M5 490x490x360 (4 pcs) on the hood. 3) Supply fan section ER63I-4DN.G7.1R L=14600 m3/hour, P=1912Pa; 4) Rotary recuperator section energy efficiency 82.1%; 5) Double-sided heat exchanger DR-HR.W-2.6-1240-900-2R-2-Cu0.4-AI0, 12-AISI304-2-Cu 12/18-E0-1-L-0 Qt=31.99 kW Qx=32.37 kW with drip tray and condensate drain bath. 6) Damper section with a long connection of 2000 mm; 7) Multifunctional section with Belimo LM230A electric actuator damper on the inlet; 8) Multifunctional section with Belimo LM230A electric actuator damper on the hood; 9) Pre-filter section MERV 8 filter on the hood; 10) MERV 14/15 section for dust lead removal, with carbon filter for absorbing gunpowder fumes, chemicals and gases and HEPA MERV 13 filter on the hood; 11) Damper section with a long connection of 2000 mm; 12) Exhaust fan section ER71I-4DN.17.1R N=11 kW; 13) External housing for frequency converter made of sheet steel with fan and heating; 14) VCS automation unit; 15) HMITM control panel; 16) Air quality sensor; 17) Outdoor temperature sensor; 18) Indoor temperature sensor** | | | **pcs** | | |  | | **1,000** | |
|  | | | 700/14600\* | | Inlet and exhaust unit 15/09 on the inlet and 15/12 on the left hood A+ with rotary drive recuperator and freon heat exchanger, thermal efficiency 82% with filter sections for a shooting range. Overall dimensions 8443x1560x2655 automatic control system C5 in complete set: L=14600 m3/hour, P=1208/1517 Pa, complete set. 1) Multifunctional section with damper electric drive LM230A Belimo with flexibility. 2) Filter section with pocket filter M5 490x490x360 (4 pcs) on the hood. 3) Supply fan section ER63I-4DN.G7.1R L=14600 m3/hour, P=1912Pa; 4) Rotary recuperator section energy efficiency 82.1%; 5) Double-sided heat exchanger DR-HR.W-2.6-1240-900-2R-2-Cu0.4-AI0, 12-AISI304-2-Cu 12/18-E0-1-L-0 Qt=31.99 kW Qx=32.37 kW with drip tray and condensate drain bath. 6) Damper section with a long connection of 2000 mm; 7) Multifunctional section with Belimo LM230A electric actuator damper on the inlet; 8) Multifunctional section with Belimo LM230A electric actuator damper on the hood; 9) Pre-filter section MERV 8 filter on the hood; 10) MERV 14/15 section for dust lead removal, with carbon filter for absorbing gunpowder fumes, chemicals and gases and HEPA MERV 13 filter on the hood; 11) Damper section with a long connection of 2000 mm; 12) Exhaust fan section ER71I-4DN.17.1R N=11 kW; 13) External housing for frequency converter made of sheet steel with fan and heating; 14) VCS automation unit; 15) HMITM control panel; 16) Air quality sensor; 17) Outdoor temperature sensor; 18) Indoor temperature sensor | | | pcs | | | 1,000 | | 1,0000 | |
|  | |  | |  | | |  | | |  | |  | | |
|  | | |  | | *Total* | | |  | | |  | |  | |
|  | | |  | | **Total K3-V3** | | |  | | | | | | |
| **3.2.5. K3ext** | | | | | | | | | | | | | | |
| **136** | | |  | | **Outdoor unit for double-sided heat exchanger Qx=80 kW, Qt=80 kW, N=20.61 kW. Outdoor air temperature when cooling -15\*C, heating -20\*C, Freon R32, A++. Overall dimensions: 2 pieces 1240x740x1858 with anti-vibration mounts for outdoor unit (8 pcs), frame for KKB 1270x740 height 700mm (2 pcs) type KKB-PUHY-P700YSNW-A1 (PUHY-P350+PUHY-P350) or analog** | | | **pcs** | | |  | | **1,000** | |
|  | | | 700KKB-PUHY-P700 | | Outdoor unit for double-sided heat exchanger Qx=80 kW, Qt=80 kW, N=20.61 kW. Outdoor air temperature when cooling -15\*C, heating -20\*C, Freon R32, A++. Overall dimensions: 2 pieces 1240x740x1858 with anti-vibration mounts for outdoor unit (8 pcs), frame for KKB 1270x740 height 700mm (2 pcs) type KKB-PUHY-P700YSNW-A1 (PUHY-P350+PUHY-P350) | | | pcs | | | 1,000 | | 1,0000 | |
| **137** | | |  | | **Normally open fire damper EI120 1350x500** | | | **pcs** | | |  | | **3,000** | |
|  | | | 700113 | | Normally open fire damper EI120 1350x500 | | | pcs | | | 1,000 | | 3,0000 | |
| **138** | | |  | | **Normally open fire damper EI120 1300x500** | | | **pcs** | | |  | | **6,000** | |
|  | | | 700114 | | Normally open fire damper EI120 1300x500 | | | pcs | | | 1,000 | | 6,0000 | |
| **139** | | |  | | **Normally open fire damper EI120 400x300** | | | **pcs** | | |  | | **1,000** | |
|  | | | 700115 | | Normally open fire damper EI120 400x300 | | | pcs | | | 1,000 | | 1,0000 | |
| **140** | | |  | | **Normally open fire damper EI120 200x300** | | | **pcs** | | |  | | **1,000** | |
|  | | | 700116 | | Normally open fire damper EI120 200x300 | | | pcs | | | 1,000 | | 1,0000 | |
| **141** | | |  | | **SRU 1400x510 damper with BLE230 electric actuator or analog** | | | **pcs** | | |  | | **3,000** | |
|  | | | 700SRU1400x510+BLE230 | | SRU 1400x510 damper with BLE230 electric actuator | | | pcs | | | 1,000 | | 3,0000 | |
|  | |  | |  | | |  | | |  | |  | | |
|  | | |  | | *Total* | | |  | | |  | |  | |
|  | | |  | | **Total K3ext** | | |  | | | | | | |
| **3.2.6. K4** | | | | | | | | | | | | | | |
| **142** | | |  | | **Indoor unit with ionizer and biofilter Qx=3.517 kW Qm=3.81 kW air consumption 584-477-395 m3/hour, noise level 21-39.5 dB, 802x189x297, weight 8.6 kg ACP-12CH35AERI/I+ or analog** | | | **pcs** | | |  | | **2,000** | |
|  | | | 700ACP-12CH35AERI/I+ | | Indoor unit with ionizer and biofilter Qx=3.517 kW Qm=3.81 kW air consumption 584-477-395 m3/hour, noise level 21-39.5 dB, 802x189x297, weight 8.6 kg ACP-12CH35AERI/I+ | | | pcs | | | 1,000 | | 2,0000 | |
| **143** | | |  | | **Outdoor unit R32 N=1.9 kW, noise level 54dB, 890x342x673, 48 kg ACP-21COFM50AERI or similar, with anti-vibration supports** | | | **pcs** | | |  | | **1,000** | |
|  | | | 700ACP-21COFM50AERI | | Outdoor unit R32 N=1.9 kW, noise level 54dB, 890x342x673, 48 kg ACP-21COFM50AERI or similar, with anti-vibration supports | | | pcs | | | 1,000 | | 1,0000 | |
|  | |  | |  | | |  | | |  | |  | | |
|  | | |  | | *Total* | | |  | | |  | |  | |
|  | | |  | | **Total K4** | | |  | | | | | | |
| **3.2.7. K5, K6** | | | | | | | | | | | | | | |
| **144** | | |  | | **Wall-mounted air conditioner Qx=6.1 kW Qm=7 kW, N=1.72 kW, operates for heating down to -20\*C for low temperatures down to -15\*C, with anti-vibration supports for the outdoor unit type PKA-M60KA(L)2 + PUHZ-ZRP60VHA2 or analog** | | | **pcs** | | |  | | **2,000** | |
|  | | | 700PKA+PUHZ | | Wall-mounted air conditioner Qx=6.1 kW Qm=7 kW, N=1.72 kW, operates for heating up to -20\*C for low temperatures up to -15\*C, with anti-vibration supports for the outdoor unit type PKA-M60KA(L)2 + PUHZ-ZRP60VHA2 | | | pcs | | | 1,000 | | 2,0000 | |
|  | |  | |  | | |  | | |  | |  | | |
|  | | |  | | *Total* | | |  | | |  | |  | |
|  | | |  | | **Total K5, K6** | | |  | | | | | | |
| **3.2.8. K7** | | | | | | | | | | | | | | |
| **145** | | |  | | **Wall-mounted air conditioner Qx=2.7 kW Qm=3 kW, N=0.407 kW, operates for heating up to -20\*C for low temperatures up to -15\*C, with anti-vibration supports for the outdoor unit type CH-S09FTXLA2-NG + PUHZ-ZRP60VHA2 or analog** | | | **pcs** | | |  | | **3,000** | |
|  | | | 700CH+PUHZ | | Wall-mounted air conditioner Qx=2.7 kW Qm=3 kW, N=0.407 kW, operates for heating down to -20\*C for low temperatures down to -15\*C, with anti-vibration supports for the outdoor unit type CH-S09FTXLA2-NG + PUHZ-ZRP60VHA2 | | | pcs | | | 1,000 | | 3,0000 | |
| **146** | | |  | | **Condensate drain pump for air conditioners with a capacity of up to 46 kW, power consumption 21W, noise level 19 V,inclusiveMAXI BOX 230V 50Hz pump (or analogue), tank, tank cover with 1.5 m long sensor cable, submersible tank, float and filter, tube length 220 mm with inner diameter 6 mm, long inlet tube 220 mm with inner diameter 14 mm, long air inlet tube 150 mm with inner diameter 6 mm, connection kit, installation accessory set** | | | **pcs** | | |  | | **1,000** | |
|  | | | 700MAXI-BOX | | Condensate drain pump for air conditioners with a capacity of up to 46 kW, power consumption 21W, noise level 19 V,inclusiveMAXI BOX 230V 50Hz pump (or analogue), tank, tank cover with 1.5 m long sensor cable, submersible tank, float and filter, tube length 220 mm with inner diameter 6 mm, long inlet tube 220 mm with inner diameter 14 mm, long air inlet tube 150 mm with inner diameter 6 mm, connection kit, installation accessory set | | | pcs | | | 1,000 | | 1,0000 | |
| **147** | | |  | | **Condensate collection tank with a capacity of 2.5 liters** | | | **pcs** | | |  | | **1,000** | |
|  | | | 700 | | Condensate collection tank with a capacity of 2.5 liters | | | pcs | | | 1,000 | | 1,0000 | |
|  | |  | |  | | |  | | |  | |  | | |
|  | | |  | | *Total* | | |  | | |  | |  | |
|  | | |  | | **Total K7** | | |  | | | | | | |
|  | |  | |  | | |  | | |  | |  | | |
|  | | |  | | *Total* | | |  | | |  | |  | |
|  | | |  | | **Total Ventilation** | | |  | | | | | | |
|  | |  | |  | | |  | | |  | |  | | |
|  | | |  | | *Total* | | |  | | |  | |  | |
|  | | |  | | *Storage purchase expenses* | | |  | | |  | |  | |
|  | | |  | | **Total Machinery** | | |  | | | | | | |
|  |  | | |  | |  | | |  | | | | | |
|  |  | | |  | |  | | |  | | | | | |
|  | | |  | | Total | | |  | | |  | | | |
|  | | |  | | **Total currency:** | | |  | | | | | |  |

|  |  |
| --- | --- |
| **Developed** |  |
| (last name, first name, position, signature,) | |