

**Reconstruction of the terminal
building of “Eugen Doga”
International Airport – Chisinau
(cadastral number 0100120.236.01),
including partial replanning of
internal spaces and building
extension**

Form No. 1B

(name of the facility)

WinEstimate

**Cost Estimate-Offer No. 2-9-1
Heating and ventilation networks**

(name of works)

Coefficient for basic wages = 1,150

Coefficient for cost of machine operation = 1,150

No.	Norm symbol and resource code	Description of works	Unit of measure (U.M.)	Quantity according to the design data
1	2	3	4	5
		1. Construction works		
		1.1. Ventilation Networks		
1	VD06A	Fabrication of the flexible connector made of waterproof canvas fabric, with steel angle flanges, having a perimeter of 100 mm, JLA-100 “KOMFOVENT” Small materials and installation materials = 1,005	pieces	4,000
	7136060011900	Ventilation and air conditioning installer	man-hours	12,65
	1740227355650	Tarpaulin fabric, width 0,8 m	m ²	0,402
	2710703700053	Hot-rolled steel strip 20 × 2 mm	kg	0,603
	2413547308164	Technical calcium carbide (carbide) S102	kg	0,322
	2710703502671	Steel angle 25×25×3 mm	kg	7,236
	2412126100010	Red lead (minium)	kg	0,402
	2411115904512	Technical gaseous oxygen S2031	m ³	0,201
	2874135840405	Standard hexagonal nut M6	pieces	4,02
	2735725903453	Welding wire, ordinary, diameter 3.25 mm	kg	0,201
	2874115819963	Hexagon head screw 6 × 25 mm	pieces	4,02
	3110500002401	Welding machine, 28–35 kW	machine-hours	1,15
	2952270007602	Tirfor 1.5 ton-force (tf) cable puller	machine-hours	0,368

1	2	3	4	5
2	VD06A	Fabrication of the flexible connector made of waterproof canvas fabric, with steel angle flanges, having a perimeter of 125 mm, JLA-125 "KOMFOVENT" Small materials and installation materials = 1,005	pieces	4,000
	7136060011900	Ventilation and air conditioning installer	man-hours	12,65
	1740227355650	Tarpaulin fabric, width 0,8 m	m ²	0,402
	2710703700053	Hot-rolled steel strip 20 × 2 mm	kg	0,603
	2413547308164	Technical calcium carbide (carbide) S102	kg	0,322
	2710703502671	Steel angle 25×25×3 mm	kg	7,236
	2412126100010	Red lead (minium)	kg	0,402
	2411115904512	Technical gaseous oxygen S2031	m ³	0,201
	2874135840405	Standard hexagonal nut M6	pieces	4,02
	2735725903453	Welding wire, ordinary, diameter 3.25 mm	kg	0,201
	2874115819963	Hexagon head screw 6 × 25 mm	pieces	4,02
	3110500002401	Welding machine, 28–35 kW	machine-hours	1,15
	2952270007602	Tirfor 1.5 ton-force (tf) cable puller	machine-hours	0,368
3	VD06A	Fabrication of the flexible connector made of waterproof canvas fabric, with steel angle flanges, having a perimeter of 160 mm, JLA-160 "KOMFOVENT" Small materials and installation materials = 1,005	pieces	4,000
	7136060011900	Ventilation and air conditioning installer	man-hours	12,65
	1740227355650	Tarpaulin fabric, width 0,8 m	m ²	0,402
	2710703700053	Hot-rolled steel strip 20 × 2 mm	kg	0,603
	2413547308164	Technical calcium carbide (carbide) S102	kg	0,322
	2710703502671	Steel angle 25×25×3 mm	kg	7,236
	2412126100010	Red lead (minium)	kg	0,402
	2411115904512	Technical gaseous oxygen S2031	m ³	0,201
	2874135840405	Standard hexagonal nut M6	pieces	4,02
	2735725903453	Welding wire, ordinary, diameter 3.25 mm	kg	0,201
	2874115819963	Hexagon head screw 6 × 25 mm	pieces	4,02
	3110500002401	Welding machine, 28–35 kW	machine-hours	1,15
	2952270007602	Tirfor 1.5 ton-force (tf) cable puller	machine-hours	0,368
4	VD06A	Fabrication of the flexible connector made of waterproof canvas fabric, with steel angle flanges, having a perimeter of 200 mm, JLA-200 "KOMFOVENT" Small materials and installation materials = 1,005	pieces	4,000
	7136060011900	Ventilation and air conditioning installer	man-hours	12,65
	1740227355650	Tarpaulin fabric, width 0,8 m	m ²	0,402
	2710703700053	Hot-rolled steel strip 20 × 2 mm	kg	0,603
	2413547308164	Technical calcium carbide (carbide) S102	kg	0,322
	2710703502671	Steel angle 25×25×3 mm	kg	7,236
	2412126100010	Red lead (minium)	kg	0,402

1	2	3	4	5
	2411115904512	Technical gaseous oxygen S2031	m ³	0,201
	2874135840405	Standard hexagonal nut M6	pieces	4,02
	2735725903453	Welding wire, ordinary, diameter 3.25 mm	kg	0,201
	2874115819963	Hexagon head screw 6 × 25 mm	pieces	4,02
	3110500002401	Welding machine, 28–35 kW	machine-hours	1,15
	2952270007602	Tirfor 1.5 ton-force (tf) cable puller	machine-hours	0,368
5	VA02E	Fabrication and installation of straight ventilation ducts made of galvanized sheet metal, thickness 0,5 mm, having the perimeter of the circular section 250 - 700 mm, Magnic Metal Small materials (cleaning rags, electrical energy, etc.) = 1,010	m ²	58,650
	7136060011900	Ventilation and air conditioning installer	man-hours	254,952
	2710703700340	Steel strip 25×3 mm	kg	47,389
	2413547308164	Technical calcium carbide (carbide) S102	kg	0,592
	2430226100814	Red lead primer G 355-6	kg	0,711
	2881116001666	Dry glass sandpaper sheets 23 × 30 cm, grit 25, S 1581	pieces	0,592
	2112517330399	Cardboard type I, 3.3 mm	kg	1,007
	2710703502671	Steel angle 25×25×3 mm	kg	74,046
	2411115904512	Technical gaseous oxygen S2031	m ³	1,777
	2320146200767	Distilled petroleum type 18/200	l	1,777
	2874135840405	Standard hexagonal nut M6	pieces	355,419
	2735725903453	Welding wire, ordinary, diameter 3.25 mm	kg	1,777
	2710403642000	Galvanized sheet metal, grade I, 0,5 mm	kg	278,412
	2874125881198	Flat washer for metal M6	pieces	355,419
	2874115819963	Hexagon head screw 6 × 25 mm	pieces	355,419
	2922140006702	Window crane	machine-hours	3,372
6	VA02F	Fabrication and installation of straight ventilation ducts made of galvanized sheet metal, thickness 0,5 mm, having the perimeter of the circular section 700 - 1600 mm, Magnic Metal Small materials (cleaning rags, electrical energy, etc.) = 1,010	m ²	15,630
	7136060011900	Ventilation and air conditioning installer	man-hours	48,711
	2413547308164	Technical calcium carbide (carbide) S102	kg	0,158
	2873155903088	Special electrodes Cu-Zn-Si	kg	0,631
	2430226100814	Red lead primer G 355-6	kg	0,71
	2881116001666	Dry glass sandpaper sheets 23 × 30 cm, grit 25, S 1581	pieces	0,158
	2112517330399	Cardboard type I, 3.3 mm	kg	0,758
	2874125885663	Countersunk head rivet 3 × 9, OL34, S 1257	kg	0,126
	2710703503596	Countersunk head rivet 3 × 9, OL34, S 1257	kg	25,258
	2411115904512	Technical gaseous oxygen S2031	m ³	0,947
	2320146200767	Distilled petroleum type 18/200	l	0,947
	2874135840405	Standard hexagonal nut M6	pieces	189,436
	2735725903453	Welding wire, ordinary, diameter 3.25 mm	kg	0,316

1	2	3	4	5
	2710403642000	Galvanized sheet metal, grade I, 0,5 mm	kg	71,038
	2874125881198	Flat washer for metal M6	pieces	189,436
	2874115819963	Hexagon head screw 6 × 25 mm	pieces	189,436
	2922140006702	Window crane	machine-hours	1,078
7	VA10F	Special part made of galvanized sheet metal or aluminium, thickness 0,5 mm, having the perimeter of the rectangular section 250 - 400 mm (reducer, elbow, threading), "Magnic Metal"	m ²	10,000
	7136060011900	Ventilation and air conditioning installer	man-hours	67,275
	2710703700340	Steel strip 25×3 mm	kg	45,00
	2413547308164	Technical calcium carbide (carbide) S102	kg	0,10
	2873155903088	Special electrodes Cu-Zn-Si	kg	0,60
	2881116001666	Dry glass sandpaper sheets 23 × 30 cm, grit 25, S 1581	pieces	2,00
	2412126100010	Red lead (minium)	kg	0,18
	2112517330399	Cardboard type I, 3.3 mm	kg	3,80
	2411115904512	Technical gaseous oxygen S2031	m ³	0,30
	2320146200767	Distilled petroleum type 18/200	l	0,04
	2874135840405	Standard hexagonal nut M6	pieces	40,00
	2735725903453	Welding wire, ordinary, diameter 3.25 mm	kg	0,30
	2710403642000	Galvanized sheet metal, grade I, 0,5 mm	kg	75,00
	2874125881198	Flat washer for metal M6	pieces	40,00
	2874115819963	Hexagon head screw 6 × 25 mm	pieces	40,00
	3110500002401	Welding machine, 28–35 kW	machine-hours	0,575
	2922140006702	Window crane	machine-hours	0,23
8	VA02B	Fabrication and installation of straight ventilation ducts made of galvanized sheet metal, thickness 0,7 mm, having the perimeter of the rectangular section 700 - 1600 mm, "Magnic Metal" Small materials (cleaning rags, electrical energy, etc.) = 1,010	m ²	381,000
	7136060011900	Ventilation and air conditioning installer	man-hours	1 077,849
	2413547308164	Technical calcium carbide (carbide) S102	kg	3,848
	2430226100814	Red lead primer G 355-6	kg	17,316
	2881116001666	Dry glass sandpaper sheets 23 × 30 cm, grit 25, S 1581	pieces	3,848
	2112517330399	Cardboard type I, 3.3 mm	kg	18,471
	2874125885663	Countersunk head rivet 3 × 9, OL34, S 1257	kg	3,078
	2710703502671	Steel angle 25×25×3 mm	kg	519,494
	2411115904512	Technical gaseous oxygen S2031	m ³	11,544
	2320146200767	Distilled petroleum type 18/200	l	2,309
	2874135840405	Standard hexagonal nut M6	pieces	6 156,96
	2735725903453	Welding wire, ordinary, diameter 3.25 mm	kg	15,392
	2710403642001	Galvanized sheet metal, grade I, 0,7 mm	kg	2 424,303
	2874125881198	Flat washer for metal M6	pieces	6 156,96
	2874115819963	Hexagon head screw 6 × 25 mm	pieces	6 156,96
	2922140006702	Window crane	machine-	30,671

1	2	3	4	5
			hours	
9	VA02C	Fabrication and installation of straight ventilation ducts made of galvanized sheet metal, thickness 0,7 mm, having the perimeter of the rectangular section 1600 - 2500 mm Small materials (cleaning rags, electrical energy, etc.) = 1.005	m ²	581,000
	7136060011900	Ventilation and air conditioning installer	man-hours	2 191,532
	2413547308164	Technical calcium carbide (carbide) S102	kg	5,839
	2430226100814	Red lead primer G 355-6	kg	30,363
	2881116001666	Dry glass sandpaper sheets 23 × 30 cm, grit 25, S 1581	pieces	5,839
	2112517330399	Cardboard type I, 3.3 mm	kg	43,793
	2874125885675	Countersunk head rivet 3 × 6, OL34, S 1257	kg	2,92
	2874125885663	Countersunk head rivet 3 × 9, OL34, S 1257	kg	4,671
	2710703503596	Countersunk head rivet 3 × 9, OL34, S 1257	kg	992,638
	2411115904512	Technical gaseous oxygen S2031	m ³	17,517
	2320146200767	Distilled petroleum type 18/200	l	5,255
	2874135840405	Standard hexagonal nut M6	pieces	14 013,72
	2735725903453	Welding wire, ordinary, diameter 3.25 mm	kg	23,356
	2710403642001	Galvanized sheet metal, grade I, 0,7 mm	kg	3 678,601
	2874125881198	Flat washer for metal M6	pieces	14 013,72
	2874115819963	Hexagon head screw 6 × 25 mm	pieces	14 013,72
	3110500002401	Welding machine, 28–35 kW	machine-hours	33,407
	2922140006702	Window crane	machine-hours	53,452
10	VA02D	Fabrication and installation of straight ventilation ducts made of galvanized sheet metal, thickness 0,7 mm, having the perimeter of the rectangular section 2500 - 4000 mm Small materials (cleaning rags, electrical energy, etc.) = 1.003	m ²	1 298,000
	7136060011900	Ventilation and air conditioning installer	man-hours	5 269,231
	2413547308164	Technical calcium carbide (carbide) S102	kg	26,038
	2430226100814	Red lead primer G 355-6	kg	135,397
	2881116001666	Dry glass sandpaper sheets 23 × 30 cm, grit 25, S 1581	pieces	13,019
	2112517330399	Cardboard type I, 3.3 mm	kg	195,284
	2874125885675	Countersunk head rivet 3 × 6, OL34, S 1257	kg	26,038
	2874125885663	Countersunk head rivet 3 × 9, OL34, S 1257	kg	10,415
	2710703504502	Steel angle 40 × 40 × 3 mm	kg	2 603,788
	2710703504760	Steel angle 40 × 40 × 4 mm	kg	3 319,83
	2411115904512	Technical gaseous oxygen S2031	m ³	78,114
	2320146200767	Distilled petroleum type 18/200	l	20,83
	2874135840405	Standard hexagonal nut M6	pieces	72 906,064
	2735725903453	Welding wire, ordinary, diameter 3.25 mm	kg	65,095
	2710403642001	Galvanized sheet metal, grade I, 0,7 mm	kg	8 201,932
	2874125881198	Flat washer for metal M6	pieces	72 906,064
	2874115819963	Hexagon head screw 6 × 25 mm	pieces	72 906,064

1	2	3	4	5
	3110500002401	Welding machine, 28–35 kW	machine-hours	223,905
	2922140006702	Window crane	machine-hours	149,27
11	VA10I	Special part made of galvanized sheet metal, thickness 0,7 mm (reducer, elbow, threading), “Magnic Metal”	m ²	200,000
	7136060011900	Ventilation and air conditioning installer	man-hours	713,00
	2413547308164	Technical calcium carbide (carbide) S102	kg	2,00
	2710703503596	Countersunk head rivet 3 × 9, OL34, S 1257	kg	550,00
	2873155903088	Special electrodes Cu-Zn-Si	kg	18,00
	2881116001666	Dry glass sandpaper sheets 23 × 30 cm, grit 25, S 1581	pieces	40,00
	2412126100010	Red lead (minium)	kg	3,60
	2112517330399	Cardboard type I, 3.3 mm	kg	15,00
	2874125885675	Countersunk head rivet 3 × 6, OL34, S 1257	kg	17,40
	2874125885663	Countersunk head rivet 3 × 9, OL34, S 1257	kg	2,34
	2411115904512	Technical gaseous oxygen S2031	m ³	6,00
	2320146200767	Distilled petroleum type 18/200	l	0,80
	2874135840405	Standard hexagonal nut M6	pieces	4 800,00
	2735725903453	Welding wire, ordinary, diameter 3.25 mm	kg	8,00
	2710403642001	Galvanized sheet metal, grade I, 0,7 mm	kg	1 280,00
	2874125881198	Flat washer for metal M6	pieces	4 800,00
	2874115819963	Hexagon head screw 6 × 25 mm	pieces	4 800,00
	3110500002401	Welding machine, 28–35 kW	machine-hours	23,00
	2922140006702	Window crane	machine-hours	11,50
12	VA02D	Fabrication and installation of straight ventilation ducts made of galvanized sheet metal, thickness 1 mm, having the perimeter of the rectangular section 2500 - 4000 mm Small materials (cleaning rags, electrical energy, etc.) = 1.003	m ²	654,000
	7136060011900	Ventilation and air conditioning installer	man-hours	2 654,913
	2413547308164	Technical calcium carbide (carbide) S102	kg	13,119
	2430226100814	Red lead primer G 355-6	kg	68,22
	2881116001666	Dry glass sandpaper sheets 23 × 30 cm, grit 25, S 1581	pieces	6,56
	2112517330399	Cardboard type I, 3.3 mm	kg	98,394
	2874125885675	Countersunk head rivet 3 × 6, OL34, S 1257	kg	13,119
	2874125885663	Countersunk head rivet 3 × 9, OL34, S 1257	kg	5,248
	2710703504502	Steel angle 40 × 40 × 3 mm	kg	1 311,924
	2710703504760	Steel angle 40 × 40 × 4 mm	kg	1 672,703
	2411115904512	Technical gaseous oxygen S2031	m ³	39,358
	2320146200767	Distilled petroleum type 18/200	l	10,495
	2874135840405	Standard hexagonal nut M6	pieces	36 733,872
	2735725903453	Welding wire, ordinary, diameter 3.25 mm	kg	32,798
	2710403644000	Galvanized sheet metal or aluminium, grade I, thickness 1 mm	kg	5 772,466
	2874125881198	Flat washer for metal M6	pieces	36 733,872

1	2	3	4	5
	2874115819963	Hexagon head screw 6 × 25 mm	pieces	36 733,872
	3110500002401	Welding machine, 28–35 kW	machine-hours	112,815
	2922140006702	Window crane	machine-hours	75,21
13	VA10J	Special part made of galvanized sheet metal, thickness 1.0 mm, having the perimeter of the rectangular section 2500 - 4000 mm	m ²	150,000
	7136060011900	Ventilation and air conditioning installer	man-hours	514,05
	2413547308164	Technical calcium carbide (carbide) S102	kg	3,00
	2710703504760	Steel angle 40 × 40 × 4 mm	kg	225,00
	2873155903088	Special electrodes Cu-Zn-Si	kg	14,25
	2881116001666	Dry glass sandpaper sheets 23 × 30 cm, grit 25, S 1581	pieces	30,00
	2412126100010	Red lead (minium)	kg	2,70
	2112517330399	Cardboard type I, 3.3 mm	kg	7,50
	2874125885675	Countersunk head rivet 3 × 6, OL34, S 1257	kg	15,60
	2874125885663	Countersunk head rivet 3 × 9, OL34, S 1257	kg	0,60
	2411115904512	Technical gaseous oxygen S2031	m ³	9,00
	2320146200767	Distilled petroleum type 18/200	l	0,60
	2874135840405	Standard hexagonal nut M6	pieces	8 400,00
	2735725903453	Welding wire, ordinary, diameter 3.25 mm	kg	7,50
	2710403644000	Galvanized sheet metal or aluminium, grade I, thickness 1 mm	kg	1 335,00
	2874125881198	Flat washer for metal M6	pieces	8 400,00
	2874115819963	Hexagon head screw 6 × 25 mm	pieces	8 400,00
	3110500002401	Welding machine, 28–35 kW	machine-hours	25,875
	2922140006702	Window crane	machine-hours	12,075
14	VB26A	Anemostat – for exhaust, diameter 100 mm, type KWI-RM-100 “KOMFOVENT”	pieces	2,000
	7136060011900	Ventilation and air conditioning installer	man-hours	6,739
	2811236309401	Anemostat – for exhaust, diameter 100 mm, type KWI-RM-100	pieces	2,00
	2513206621493	Porous rubber sealing strip	kg	0,50
	2874135840405	Standard hexagonal nut M6	pieces	4,00
	2462106110443	Prenadez 400	kg	0,42
	2874115883938	Spring washer M6	pieces	4,00
	2874115819963	Hexagon head screw 6 × 25 mm	pieces	4,00
	2922140006702	Window crane	machine-hours	0,023
15	VB26A	Anemostat – for exhaust, diameter 125 mm, type KWI-RM-125 “KOMFOVENT”	pieces	24,000
	7136060011900	Ventilation and air conditioning installer	man-hours	80,868
	2811236309402	Anemostat – for exhaust, diameter 125 mm, type KWI-RM-125	pieces	24,00

1	2	3	4	5
	2513206621493	Porous rubber sealing strip	kg	6,00
	2874135840405	Standard hexagonal nut M6	pieces	48,00
	2462106110443	Prenadez 400	kg	5,04
	2874115883938	Spring washer M6	pieces	48,00
	2874115819963	Hexagon head screw 6 × 25 mm	pieces	48,00
	2922140006702	Window crane	machine-hours	0,276
16	VB26A	Anemostat – for exhaust, diameter 200 mm, type KWI-RM-200 “KOMFOVENT”	pieces	1,000
	7136060011900	Ventilation and air conditioning installer	man-hours	3,369
	2811236309403	Anemostat – for exhaust, diameter 200 mm, type KWI-RM-100	pieces	1,00
	2513206621493	Porous rubber sealing strip	kg	0,25
	2874135840405	Standard hexagonal nut M6	pieces	2,00
	2462106110443	Prenadez 400	kg	0,21
	2874115883938	Spring washer M6	pieces	2,00
	2874115819963	Hexagon head screw 6 × 25 mm	pieces	2,00
	2922140006702	Window crane	machine-hours	0,011
17	VB26A	Anemostat – for supply, diameter 125 mm, type KWI-RM-125 “KOMFOVENT”	pieces	1,000
	7136060011900	Ventilation and air conditioning installer	man-hours	3,369
	2811236309402	Anemostat – for exhaust, diameter 125 mm, type KWI-RM-125	pieces	1,00
	2513206621493	Porous rubber sealing strip	kg	0,25
	2874135840405	Standard hexagonal nut M6	pieces	2,00
	2462106110443	Prenadez 400	kg	0,21
	2874115883938	Spring washer M6	pieces	2,00
	2874115819963	Hexagon head screw 6 × 25 mm	pieces	2,00
	2922140006702	Window crane	machine-hours	0,011
18	VB26A	Anemostat – for supply, diameter 200 mm, type KWI-RM-200 “KOMFOVENT”	pieces	1,000
	7136060011900	Ventilation and air conditioning installer	man-hours	3,369
	2811236309405	Anemostat – for supply, diameter 200 mm, type KWI-RM-200	pieces	1,00
	2513206621493	Porous rubber sealing strip	kg	0,25
	2874135840405	Standard hexagonal nut M6	pieces	2,00
	2462106110443	Prenadez 400	kg	0,21
	2874115883938	Spring washer M6	pieces	2,00
	2874115819963	Hexagon head screw 6 × 25 mm	pieces	2,00
	2922140006702	Window crane	machine-hours	0,011
19	CL20A	Ventilation grilles, prefabricated, made of black sheet metal, Square diffuser 295×295 with plenum box SKD DRS2-	pieces	32,000

1	2	3	4	5
		295×295 “KOMFOVENT”		
	7122050013400	Bricklayer	man-hours	17,296
	9310060019920	Worker servicing ST	man-hours	1,104
	2874207327005	Knotted chain, diameter 2 mm	kg	4,80
	2811236306210 332	Square diffuser 295×295 with plenum box SKD-DRSH2-295×295 “KOMFOVENT”	pieces	32,00
	2651122100402	Metallurgical cement with additives M 30, bags S1500	kg	16,00
20	CL20A	Ventilation grilles, prefabricated, made of black sheet metal, Square diffuser 370×370 with plenum box SKD-DRSH2-370×370 “KOMFOVENT”	pieces	44,000
	7122050013400	Bricklayer	man-hours	23,782
	9310060019920	Worker servicing ST	man-hours	1,518
	2874207327005	Knotted chain, diameter 2 mm	kg	6,60
	2811236306210 344	Square diffuser 370×370 with plenum box SKD-DRSH2-370×370 “KOMFOVENT”	pieces	44,00
	2651122100402	Metallurgical cement with additives M 30, bags S1500	kg	22,00
21	CL20A	Ventilation grilles, prefabricated, made of black sheet metal, Square diffuser 445×445 with plenum box SKD-DRSH2-445×445 “KOMFOVENT”	pieces	1,000
	7122050013400	Bricklayer	man-hours	0,54
	9310060019920	Worker servicing ST	man-hours	0,034
	2874207327005	Knotted chain, diameter 2 mm	kg	0,15
	2811236306210 31	Square diffuser 445×445 with plenum box SKD-DRSH2-445×445 “KOMFOVENT”	pieces	1,00
	2651122100402	Metallurgical cement with additives M 30, bags S1500	kg	0,50
22	CL20A	Ventilation grilles, prefabricated, made of black sheet metal, Square diffuser 595×595 with plenum box SKD-DRSH2-595×595 “KOMFOVENT”	pieces	8,000
	7122050013400	Bricklayer	man-hours	4,324
	9310060019920	Worker servicing ST	man-hours	0,276
	2874207327005	Knotted chain, diameter 2 mm	kg	1,20
	2811236306210 8	Square diffuser 595×595 “KOMFOVENT”	pieces	8,00
	2651122100402	Metallurgical cement with additives M 30, bags S1500	kg	4,00
23	CL20A	Ventilation grilles, prefabricated, made of black sheet metal, with mesh 1000×3000,	pieces	8,000

1	2	3	4	5
		type SHA-1000×3000 “KOMFOVENT”		
	7122050013400	Bricklayer	man-hours	4,324
	9310060019920	Worker servicing ST	man-hours	0,276
	2874207327005	Knotted chain, diameter 2 mm	kg	1,20
	2811236306210 300	Ventilation grille with mesh 1000×3000 type SHA-1000×3000 “KOMFOVENT”	pieces	8,00
	2651122100402	Metallurgical cement with additives M 30, bags S1500	kg	4,00
24	CL20A	Exterior ventilation grilles, prefabricated, made of black sheet metal, diameter 100 mm, type YGAV-100 “KOMFOVENT”	pieces	2,000
	7122050013400	Bricklayer	man-hours	1,081
	9310060019920	Worker servicing ST	man-hours	0,069
	2874207327005	Knotted chain, diameter 2 mm	kg	0,30
	2811236306210 100	Exterior grille 100 mm type YGAV-100 “KOMFOVENT”	pieces	2,00
	2651122100402	Metallurgical cement with additives M 30, bags S1500	kg	1,00
25	CL20A	Exterior ventilation grilles, prefabricated, made of black sheet metal, diameter 125 mm, type YGAV-125 “KOMFOVENT”	pieces	2,000
	7122050013400	Bricklayer	man-hours	1,081
	9310060019920	Worker servicing ST	man-hours	0,069
	2874207327005	Knotted chain, diameter 2 mm	kg	0,30
	2811236306210 125	Exterior grille 125 mm type YGAV-125 “KOMFOVENT”	pieces	2,00
	2651122100402	Metallurgical cement with additives M 30, bags S1500	kg	1,00
26	CL20A	Exterior ventilation grilles, prefabricated, made of black sheet metal, diameter 160 mm, type YGAV-160 “KOMFOVENT”	pieces	2,000
	7122050013400	Bricklayer	man-hours	1,081
	9310060019920	Worker servicing ST	man-hours	0,069
	2874207327005	Knotted chain, diameter 2 mm	kg	0,30
	2811236306210 160	Exterior grille 160 mm type YGAV-160 “KOMFOVENT”	pieces	2,00
	2651122100402	Metallurgical cement with additives M 30, bags S1500	kg	1,00
27	CL20A	Exterior ventilation grilles, prefabricated, made of black sheet metal, diameter 200 mm, type YGAV-200 “KOMFOVENT”	pieces	2,000
	7122050013400	Bricklayer	man-	1,081

1	2	3	4	5
			hours	
	9310060019920	Worker servicing ST	man-hours	0,069
	2874207327005	Knotted chain, diameter 2 mm	kg	0,30
	2811236306210 200	Exterior grille 200 mm type YGAV-200 "KOMFOVENT"	pieces	2,00
	2651122100402	Metallurgical cement with additives M 30, bags S1500	kg	1,00
28	CL20A	Unidirectional steel ventilation grille with airflow regulator 300×200 type: KSH-P- RM-300×200 "KOMFOVENT"	pieces	13,000
	7122050013400	Bricklayer	man-hours	7,026
	9310060019920	Worker servicing ST	man-hours	0,448
	2874207327005	Knotted chain, diameter 2 mm	kg	1,95
	2811236306320 0	Unidirectional steel ventilation grille with airflow regulator 300×200 type: KSH-P-RM-300×200	pieces	13,00
	2651122100402	Metallurgical cement with additives M 30, bags S1500	kg	6,50
29	CL20A	Unidirectional steel ventilation grille with airflow regulator 400×200 type: KSH-P- RM-400×200 "KOMFOVENT"	pieces	13,000
	7122050013400	Bricklayer	man-hours	7,026
	9310060019920	Worker servicing ST	man-hours	0,448
	2874207327005	Knotted chain, diameter 2 mm	kg	1,95
	2811236306420 0	Unidirectional steel ventilation grille with airflow regulator 400×200 type: KSH-P-RM-400×200	pieces	13,00
	2651122100402	Metallurgical cement with additives M 30, bags S1500	kg	6,50
30	CL20A	Unidirectional steel ventilation grille with airflow regulator 500×200 type: KSH-P- RM-500×200 "KOMFOVENT"	pieces	16,000
	7122050013400	Bricklayer	man-hours	8,648
	9310060019920	Worker servicing ST	man-hours	0,552
	2874207327005	Knotted chain, diameter 2 mm	kg	2,40
	2811236306452 00	Unidirectional steel ventilation grille 500×200 type: KSH-P-RM-500×200	pieces	16,00
	2651122100402	Metallurgical cement with additives M 30, bags S1500	kg	8,00
31	CL20A	Unidirectional steel ventilation grille with airflow regulator 700×200 type: KSH-P- RM-700×200 "KOMFOVENT"	pieces	20,000
	7122050013400	Bricklayer	man-hours	10,81
	9310060019920	Worker servicing ST	man-hours	0,69

1	2	3	4	5
	2874207327005	Knotted chain, diameter 2 mm	kg	3,00
	2811236306720 0	Unidirectional steel ventilation grille with airflow regulator 700×200 type: KSH-P-RM-700×200	pieces	20,00
	2651122100402	Metallurgical cement with additives M 30, bags S1500	kg	10,00
32	CL20A	Unidirectional steel ventilation grille with airflow regulator 1000×500 type: KSH-P-RM-1000×500 “KOMFOVENT”	pieces	2,000
	7122050013400	Bricklayer	man-hours	1,081
	9310060019920	Worker servicing ST	man-hours	0,069
	2874207327005	Knotted chain, diameter 2 mm	kg	0,30
	2811236306221 000	Unidirectional steel ventilation grille with airflow regulator 1000×500 type: KSH-P-RM-1000×500	pieces	2,00
	2651122100402	Metallurgical cement with additives M 30, bags S1500	kg	1,00
33	CL20A	Unidirectional steel ventilation grille with airflow regulator 1000×1000 type: KSH-P-RM-1000×1000 “KOMFOVENT”	pieces	4,000
	7122050013400	Bricklayer	man-hours	2,162
	9310060019920	Worker servicing ST	man-hours	0,138
	2874207327005	Knotted chain, diameter 2 mm	kg	0,60
	2811236306221 5000	Unidirectional steel ventilation grille with airflow regulator 1000×1000 type: KSH-P-RM-1000×1000	pieces	4,00
	2651122100402	Metallurgical cement with additives M 30, bags S1500	kg	2,00
34	CL20A	Unidirectional steel ventilation grille with airflow regulator 2000×800 type: KSH-P-RM-2000×800 “KOMFOVENT”	pieces	2,000
	7122050013400	Bricklayer	man-hours	1,081
	9310060019920	Worker servicing ST	man-hours	0,069
	2874207327005	Knotted chain, diameter 2 mm	kg	0,30
	2811236306222 0000	Unidirectional steel ventilation grille with airflow regulator 2000×800 type: KSH-P-RM-2000×800	pieces	2,00
	2651122100402	Metallurgical cement with additives M 30, bags S1500	kg	1,00
35	CL20A	Unidirectional steel ventilation grille 3000×800 type: KSH-P-RM-3000×800 “KOMFOVENT”	pieces	6,000
	7122050013400	Bricklayer	man-hours	3,243
	9310060019920	Worker servicing ST	man-hours	0,207
	2874207327005	Knotted chain, diameter 2 mm	kg	0,90
	2811236306222	Unidirectional steel ventilation grille 3000×800	pieces	6,00

1	2	3	4	5
	30000	type: KSH-P-RM-3000×800		
	2651122100402	Metallurgical cement with additives M 30, bags S1500	kg	3,00
36	CL20A	Unidirectional steel ventilation grille with airflow regulator 3000×1000 type: KSH-P-RM-3000×1000 “KOMFOVENT”	pieces	11,000
	7122050013400	Bricklayer	man-hours	5,945
	9310060019920	Worker servicing ST	man-hours	0,379
	2874207327005	Knotted chain, diameter 2 mm	kg	1,65
	2811236306221 3000	Unidirectional steel ventilation grille with airflow regulator 3000×1000 type: KSH-P-RM-3000×1000	pieces	11,00
	2651122100402	Metallurgical cement with additives M 30, bags S1500	kg	5,50
37	IzH22A	Insulation of pipes with prefabricated mineral wool shells, thickness 50 mm	m ²	120,000
	7134050013240	Thermal insulator	man-hours	65,412
	1111000105531	Mineral wool shells d=43 kg/m ² b=50 mm Lamella Mat	m ²	123,60
	2734113805815	Galvanized soft steel wire, diameter 1.25 mm	kg	5,40
38	IzH15A	Insulation of pipes with mineral wool mats d=43 kg/m ² b=100 mm Lamella Mat ROCKWOOL	m ²	1 500,000
	7134030012200	Waterproofing installer	man-hours	897,00
	2682162611305	Mineral wool mats d=43 kg/m ² b=100 mm Lamella Mat	m ²	1 537,50
	2734113805762	Galvanized soft wire, diameter 0,8 mm	kg	12,00
	2734113805815	Galvanized soft steel wire, diameter 1.25 mm	kg	171,00
39	IzH22A-f	Insulation of pipes with rubber foam membranes, thickness 50 mm, in the form of self-adhesive rolls covered with a reinforced aluminium layer (galvanized wire excluded)	m ²	1 100,000
	7134050013240	Thermal insulator	man-hours	599,61
	1111000105555	Rubber foam insulation thickness 50 mm, in the form of self-adhesive rolls covered with reinforced aluminium layer, type ARMAFLEX DUCT AL	m ²	1 133,00
40	Izi09B1	Protection of thermal insulation on pipes with galvanized sheet metal thickness 0,8 mm fixed with self-tapping slotted semi-round head screws, having the pipe circumference over insulation exceeding 1,6 m, fabrication	m ²	2 600,000
	7213050013100	Tinsmith	man-	702,65

1	2	3	4	5
			hours	
	2710403601300	Galvanized sheet metal 0,8 mm thickness	kg	18 933,20
	4011106202741	Electrical energy	kw	127,40
41	IzI0B2	Protection of thermal insulation on pipes with galvanized sheet metal thickness 0,8 mm fixed with self-tapping slotted semi-round head screws, having the pipe circumference over insulation exceeding 1,6 m, installation	m ²	2 600,000
	7213050013100	Tinsmith	man-hours	1 761,11
	2874115893900	Screw 4 × 15 OLC35 zn	pieces	20 800,00
42	IzH22A-f	Insulation of pipes with rubber foam membranes thickness 25 mm, in the form of self-adhesive rolls covered with a reinforced aluminium layer (galvanized wire excluded)	m ²	1 550,000
	7134050013240	Thermal insulator	man-hours	844,905
	1111000105556	Rubber foam insulation thickness 25 mm, in the form of self-adhesive rolls covered with reinforced aluminium layer, type ARMAFLEX DUCT AL	m ²	1 596,50
Total Ventilation Networks				
1.2. Heating and cooling networks				
43	ID04A	Shut-off or check valve with threaded sockets for central heating installations, Ball valve DN15 type X1666 "DAHFOSS"	pieces	8,000
	7136040011749	Heating and gas installer	man-hours	1,38
	2875274205100 15	Threaded valve d = 15 mm	pieces	8,00
	1714227322940	Hemp fiber	kg	0,12
	2430126100338	Sealing compound	kg	0,256
44	ID04A	Shut-off or check valve with threaded sockets for central heating installations, Ball valve DN25 type X1666 "DAHFOSS"	pieces	1,000
	7136040011749	Heating and gas installer	man-hours	0,172
	2875274205100 25	Threaded valve d = 25 mm	pieces	1,00
	1714227322940	Hemp fiber	kg	0,015
	2430126100338	Sealing compound	kg	0,032
45	ID04B	Shut-off or check valve with threaded	pieces	1,000

1	2	3	4	5
		sockets for central heating installations, Ball valve DN32 type X1666 “DAHFOSS”		
	7136040011749	Heating and gas installer	man- hours	0,287
	2875274205100 32	Threaded valve d = 32 mm	pieces	1,00
	1714227322940	Hemp fiber	kg	0,03
	2430126100338	Sealing compound	kg	0,06
46	ID04B	Shut-off or check valve with threaded sockets for central heating installations, Ball valve DN40 type X1666 “DAHFOSS”	pieces	1,000
	7136040011749	Heating and gas installer	man- hours	0,287
	2875274205100 40	Threaded valve (ball shut-off valve DN40)	pieces	1,00
	1714227322940	Hemp fiber	kg	0,03
	2430126100338	Sealing compound	kg	0,06
47	SE56A	Filter for potable water, with threaded sockets for mounting on pipeline, Y-type strainer for impurities DN25 Y222 “DAHFOSS” Small materials (hemp fiber, red lead primer, etc.) = 1,010	pieces	1,000
	7136020011620	Water and sewer installer	man- hours	2,645
	2924127322065 25	Potable water filter d = 25 mm	pieces	1,01
48	SE56A	Filter for potable water, with threaded sockets for mounting on pipeline, Y-type strainer for impurities DN32 Y222 “DAHFOSS” Small materials (hemp fiber, red lead primer, etc.) = 1,010	pieces	1,000
	7136020011620	Water and sewer installer	man- hours	2,645
	2924127322065 32	Potable water filter d = 32 mm	pieces	1,01
49	SE56A	Filter for potable water, with threaded sockets for mounting on pipeline, Y-type strainer for impurities DN40 Y222 “DAHFOSS” Small materials (hemp fiber, red lead primer, etc.) = 1,010	pieces	1,000
	7136020011620	Water and sewer installer	man- hours	2,645
	2924127322065 40	Potable water filter d = 40 mm	pieces	1,01
50	ID13B	Shut-off valve with threaded sockets,	pieces	2,000

1	2	3	4	5
		mounted on pipelines, Manual shut-off valve with presetting DN25 type ASV-I, equipment cost "DAHFOSS"		
	7136040011749	Heating and gas installer	man-hours	0,368
	1714227322940	Hemp fiber	kg	0,04
	2430126100338	Sealing compound	kg	0,08
51	ID13C	Shut-off valve with threaded sockets, mounted on pipelines, Manual shut-off valve with presetting DN32 type ASV-I, equipment cost "DAHFOSS"	pieces	2,000
	7136040011749	Heating and gas installer	man-hours	0,644
	1714227322940	Hemp fiber	kg	0,06
	2430126100338	Sealing compound	kg	0,12
52	ID13C	Shut-off valve with threaded sockets, mounted on pipelines, Manual shut-off valve with presetting DN40 type ASV-I, equipment cost "DAHFOSS"	pieces	2,000
	7136040011749	Heating and gas installer	man-hours	0,644
	1714227322940	Hemp fiber	kg	0,06
	2430126100338	Sealing compound	kg	0,12
53	ID05C	Gate valve or stop valve and check valve, flanged, for central heating installations, Butterfly valve DN80 type SYLAX DN80, equipment cost "DAHFOSS"	pieces	2,000
	7136040011749	Heating and gas installer	man-hours	2,30
	287527442820080	Loose round flange d = 80	pieces	4,00
	1450336200468	Concentrated graphite type G, powder	kg	0,04
	2874115818410	Precision hexagon head screw M16 × 50	pieces	16,00
	2874115840558	Hexagonal nut M16	pieces	16,00
	2874125881344	Flat washer M18	pieces	16,00
	2513206622020	Marsit sheet 3,0 mm, 25 atm	kg	0,26
	2411115904512	Technical gaseous oxygen S2031	m ³	0,60
	2413547308164	Technical calcium carbide (carbide) S102	kg	1,80
	2735725903465	Ordinary welding wire S10 D = 4,00	kg	0,60
	1542126108945	Boiled linseed oil	kg	0,07
54	ID06A	Air vent valve with adjustable key for central heating installations, Automatic air vent DN15 type 548 DN15 "DAHFOSS"	pieces	8,000
	7136040011749	Heating and gas installer	man-hours	0,92
	291313450000015	Automatic air vent DN15 type 548 DN15	pieces	8,00
	2524907304522	Unsintered Teflon tape	pieces	0,80

1	2	3	4	5
55	IC34N	Connection pieces (Flange) with 3 welds made of copper, mounted by welding with copper pipe, having external diameter 80,0 mm "DANFOSS"	pieces	4,000
	7136040011749	Heating and gas installer	man-hours	7,36
	2875274110180	Flat welding flange diameter 80 mm	pieces	4,00
	2414126109482	Copper cleaning paste (flux)	kg	0,088
	2744135904000	Solder alloy for copper	kg	0,072
	2735725903105	Electrode for copper soldering L-Cu P6 2×2×500 mm	kg	0,92
56	IC52A applicative	Flexible insert with coupling DN25 ZKT "DAHFOSS"	pieces	2,000
	7136040011749	Heating and gas installer	man-hours	2,07
	2523156715100 25	Flexible insert with coupling d = 25	m	2,00
57	IC52A applicative	Flexible insert with coupling DN32 ZKT "DAHFOSS"	pieces	2,000
	7136040011749	Heating and gas installer	man-hours	2,07
	2523156715100 32	Flexible insert with coupling d = 32	m	2,00
58	IC52A applicative	Flexible insert with coupling DN40 ZKT "DAHFOSS"	pieces	2,000
	7136040011749	Heating and gas installer	man-hours	2,07
	2523156715100 40	Flexible insert with coupling d = 40 mm	m	2,00
59	IC52A applicative	Flexible insert with flange DN80 ZKB DN80 "DAHFOSS"	pieces	2,000
	7136040011749	Heating and gas installer	man-hours	2,07
	2523156715100 80	Flexible insert with coupling DN80 ZKB	m	2,00
60	IC11B	Black steel pipe longitudinally welded for installations, non-threaded, mounted by welding in risers, in central heating installations for residential and socio-cultural buildings, Water-gas steel pipe non-galvanized type GOST 3262-75* D = 21,3×2,5 "PROTOS"	m	2,000
	7136040011749	Heating and gas installer	man-hours	0,92
	2521216701000 21	Steel pipe d = 21,3×2,5	m	2,03
	2413547308164	Technical calcium carbide (carbide) S102	kg	0,128
	2734125900487	Ordinary welding wire dn = 2,5 mm	kg	0,034
	2734113803910	Soft steel wire, black D = 1,25 mm	kg	0,006

1	2	3	4	5
	2411115904512	Technical gaseous oxygen S2031	m ³	0,06
61	IC11D	Black steel pipe longitudinally welded for installations, non-threaded, mounted by welding in risers, in central heating installations for residential and socio-cultural buildings, Water-gas steel pipe non-galvanized type GOST 3262-75* D = 33,5×2,8 “PROTOS”	m	10,000
	7136040011749	Heating and gas installer	man-hours	6,44
	2521216701000 33	Steel pipe 33,5 × 2,8 manufactured in accordance with State Standard (GOST) 3262-75	m	10,15
	2413547308164	Technical calcium carbide (carbide) S102	kg	0,86
	2734125900487	Ordinary welding wire dn = 2,5 mm	kg	0,24
	2734113803910	Soft steel wire, black D = 1,25 mm	kg	0,03
	2411115904512	Technical gaseous oxygen S2031	m ³	0,38
62	IC11E	Black steel pipe longitudinally welded for installations, non-threaded, mounted by welding in risers, in central heating installations for residential and socio-cultural buildings, Water-gas steel pipe non-galvanized type GOST 3262-75* D=42,3x2,8 “PROTOS”	m	29,000
	7136040011749	Heating and gas installer	man-hours	20,677
	2521216701000 42	Steel pipe D = 42,3 × 2,8	m	29,435
	2413547308164	Technical calcium carbide (carbide) S102	kg	3,045
	2734125900487	Ordinary welding wire dn = 2,5 mm	kg	0,87
	2734113803910	Soft steel wire, black D = 1,25 mm	kg	0,087
	2411115904512	Technical gaseous oxygen S2031	m ³	1,45
63	IC14A	Steel pipe, seamless or longitudinally welded, for constructions, mounted by welding to connections to equipment, in central heating installations, Water-gas steel pipe non-galvanized, type State Standard (GOST) 3262-75* D = 48 × 3 “PROTOS”	m	9,000
	7136040011749	Heating and gas installer	man-hours	17,595
	2521216701000 48	Steel pipe d = 48 × 3,5	m	9,00
	2875274401100	Flat flange	pieces	2,70
	2411115904512	Technical gaseous oxygen S2031	m ³	1,98
	2413547308164	Technical calcium carbide (carbide) S102	kg	4,95
	2735725903465	Ordinary welding wire S10 D = 4,00	kg	1,17
	2874115818410	Precision hexagon head screw M16 × 50	pieces	10,80
	2874115840558	Hexagonal nut M16	pieces	10,80
	2874125881344	Flat washer M18	pieces	10,80
	2513206622020	Marsit sheet 3,0 mm, 25 atm	kg	0,09
	1542126108945	Boiled linseed oil	kg	0,027

1	2	3	4	5
	1450336200468	Concentrated graphite type G, powder	kg	0,018
	2734113803910	Soft steel wire, black D = 1,25 mm	kg	0,045
	2875274021000	Welding elbow	pieces	1,35
64	IC14D	Steel pipe, seamless or longitudinally welded, for constructions, mounted by welding to connections to equipment, in central heating installations, longitudinally welded steel pipe non-galvanized, type State Standard (GOST) 10704-91* D = 76 × 3 “PROTOS”	m	75,000
	7136040011749	Heating and gas installer	man-hours	189,75
	2521216701000 76	Steel pipe 76 × 3.5 mm (State Standard (GOST) 10704-91)	m	75,00
	2875274401100	Flat flange	pieces	22,50
	2411115904512	Technical gaseous oxygen S2031	m ³	24,00
	2413547308164	Technical calcium carbide (carbide) S102	kg	58,50
	2735725903465	Ordinary welding wire S10 D = 4,00	kg	14,25
	2874115818410	Precision hexagon head screw M16 × 50	pieces	180,00
	2874115840558	Hexagonal nut M16	pieces	180,00
	2874125881344	Flat washer M18	pieces	180,00
	2513206622020	Marsit sheet 3,0 mm, 25 atm	kg	1,20
	1542126108945	Boiled linseed oil	kg	0,375
	1450336200468	Concentrated graphite type G, powder	kg	0,225
	2734113803910	Soft steel wire, black D = 1,25 mm	kg	0,375
	2875274021000	Welding elbow	pieces	11,25
65	IC14F	Steel pipe, seamless or longitudinally welded, for constructions, mounted by welding to connections to equipment, in central heating installations, longitudinally welded steel pipe non-galvanized, type State Standard (GOST) 10704-91* D = 89 × 3 “PROTOS”	m	28,000
	7136040011749	Heating and gas installer	man-hours	90,16
	2521216701000 89	Steel pipe d = 89	m	28,00
	2875274401100	Flat flange	pieces	16,80
	2411115904512	Technical gaseous oxygen S2031	m ³	11,76
	2413547308164	Technical calcium carbide (carbide) S102	kg	31,08
	2735725903465	Ordinary welding wire S10 D = 4,00	kg	7,56
	2874115818410	Precision hexagon head screw M16 × 50	pieces	89,60
	2874115840558	Hexagonal nut M16	pieces	89,60
	2874125881344	Flat washer M18	pieces	89,60
	2513206622020	Marsit sheet 3,0 mm, 25 atm	kg	0,84
	1542126108945	Boiled linseed oil	kg	0,28
	1450336200468	Concentrated graphite type G, powder	kg	0,14
	2734113803910	Soft steel wire, black D = 1,25 mm	kg	0,168
	2875274021000	Welding elbow	pieces	4,20
66	CN23B1	Painting of ordinary quality for functional installations, executed with oil-based paint on pipes having the external diameter over 34 mm inclusive	m ²	31,200

1	2	3	4	5
	7141020013300	Painter (plasterer-painter)	man-hours	25,116
	2430116103000	Oil-based paint	kg	4,68
	2430126106200	Oil enamel	kg	0,25
	2430226100034	Anticorrosive red lead primer G.351-4 S 3097-80	kg	3,12
	2320116200573	Motor gasoline type CO/R 75	l	3,12
	2681126001472	Dry sandpaper 23 × 30 cm, grit 6	pieces	0,312
	1711317306661	Cleaning cotton	kg	0,936
67	CN23A	Painting of superior quality for functional installations, executed with oil-based paint on pipes having the external diameter up to 34 mm inclusive	m	12,000
	7141020013300	Painter (plasterer-painter)	man-hours	1,794
	2430116103000	Oil-based paint	kg	0,204
	2430126106200	Oil enamel	kg	0,108
	2430226100034	Anticorrosive red lead primer G.351-4 S 3097-80	kg	0,108
	2320116200573	Motor gasoline type CO/R 75	l	0,12
	2681126001472	Dry sandpaper 23 × 30 cm, grit 6	pieces	0,12
	1711317306661	Cleaning cotton	kg	0,36
68	IC41B	Clamp for fixing steel pipes for the central heating or gas installation, mounted by shooting, the pipe having a diameter of 1 1/4" - 2"	pieces	75,000
	7136040011749	Heating and gas installer	man-hours	10,35
	2875274204000 321	Fixing clamp 32-42	pieces	75,00
	2874115893468	Drive pin M 6	pieces	75,00
	2874135840405	Standard hexagonal nut M6	pieces	75,00
	2874115893465	Cartridge for pistol caliber 6,3 mm	pieces	75,00
69	IC41C	Clamp for fixing steel pipes for the central heating or gas installation, mounted by shooting, the pipe having a diameter of 2 1/2" - 4"	pieces	150,000
	7136040011749	Heating and gas installer	man-hours	24,15
	2875274204000 1	Fixing clamp 76-83	pieces	150,00
	2874115893468	Drive pin M 6	pieces	150,00
	2874135840405	Standard hexagonal nut M6	pieces	150,00
	2874115893465	Cartridge for pistol caliber 6,3 mm	pieces	150,00
70	IE03C	Carrying out the pressure tightness test of the supply pipelines of the heating appliances (air heaters, thermoconvectors, baseboard convectors, etc.) having the diameter of 54 × 3,5 ... 83 × 3,5 mm	m	112,000
	7136040011749	Heating and gas installer	man-	16,744

1	2	3	4	5
			hours	
	2952270003304	Single-stage low-pressure water electric pump 15,0 - 30,0 kW	machine- hours	7,728
71	IE03B	Carrying out the pressure tightness test of the supply pipelines of the heating appliances (air heaters, thermoconvectors, baseboard convectors, etc.) having the diameter of 1 1/4" ... 2"	m	50,000
	7136040011749	Heating and gas installer	man- hours	6,325
	2952270003304	Single-stage low-pressure water electric pump 15,0 - 30,0 kW	machine- hours	2,875
72	IE04B	Carrying out the expansion-contraction and operation test of the supply pipelines of the heating appliances (air heaters, thermoconvectors, baseboard convectors, etc.) having the diameter of 1 1/4" ... 2"	m	50,000
	7136040011749	Heating and gas installer	man- hours	5,75
73	IE04C	Carrying out the expansion-contraction and operation test of the supply pipelines of the heating appliances (air heaters, thermoconvectors, baseboard convectors, etc.) having the diameter of 54 × 3,5 ... 83 × 3,5 mm	m	112,000
	7136040011749	Heating and gas installer	man- hours	15,456
74	RpIF09D1	Mineral wool cylinder S = 30 mm for D = 21,3 × 2,5 ROCKWOOL 100 Small materials = 1,050	m	2,000
	7136040011800	Heating installer	man- hours	1,449
	332051735223	Mineral wool cylinder S = 30 mm for D = 21,3 × 2,5	m	2,163
75	RpIF09D1	Mineral wool cylinder S = 30 mm for D = 33,5 × 2,8 ROCKWOOL100 Small materials = 1,050	m	10,000
	7136040011800	Heating installer	man- hours	7,245
	3320517352231	Mineral wool cylinder S = 30 mm for D = 33,5 × 2,8	m	10,815
76	RpIF09D1	Mineral wool cylinder S = 30 mm for D = 42,3 × 2,8 ROCKWOOL100 Small materials = 1,050	m	29,000
	7136040011800	Heating installer	man- hours	21,01
	3320517352232	Mineral wool cylinder S = 30 mm for D = 42,3 ×	m	31,364

1	2	3	4	5
		2,8		
77	RpIF09D1	Mineral wool cylinder S = 30 mm for D = 48 × 3 ROCKWOOL100 Small materials = 1,050	m	9,000
	7136040011800	Heating installer	man-hours	6,52
	3320517352233	Mineral wool cylinder S = 30 mm for D = 48 × 3	m	9,734
78	RpIF09D1	Mineral wool cylinder S = 40 mm for D = 76 × 3 ROCKWOOL100 Small materials = 1,050	m	75,000
	7136040011800	Heating installer	man-hours	54,337
	3320517352234	Mineral wool cylinder S = 40 mm for D = 76 × 3	m	81,113
79	RpIF09D1	Mineral wool cylinder S = 50 mm for D = 89 × 3 ROCKWOOL100 Small materials = 1,050	m	28,000
	7136040011800	Heating installer	man-hours	20,286
	3320517352235	Mineral wool cylinder S = 50 mm for D = 89*3	m	30,282
Total Heating and cooling networks				
Total				
Social insurance				
Transportation of materials				
Storage of materials				
Total				
Overhead expenses				
Total				
Estimated profit				
Total Construction works				
		2. Installation Works		
		2.1. Ventilation Networks		
80	VB17A	Circular noise attenuator, type AZC, with perimeter 800 - 1600 mm	pieces	16,000
	7136060011900	Ventilation and air conditioning installer	man-hours	15,824
	2112517330399	Cardboard type I, 3.3 mm	kg	0,80
	2874135840405	Standard hexagonal nut M6	pieces	192,00
	2874115883938	Spring washer M6	pieces	192,00
	2874115819999	Screws cap hexagonal 6 x 35 mm	pieces	192,00
81	VB18A	Rectangular noise attenuator with perimeter 1000 - 2000 mm	pieces	44,000

1	2	3	4	5
	7136060011900	Ventilation and air conditioning installer	man-hours	55,66
	2112517330399	Cardboard type I, 3.3 mm	kg	2,20
	2874135840405	Standard hexagonal nut M6	pieces	792,00
	2874115883938	Spring washer M6	pieces	792,00
	2874115819999	Screws cap hexagonal 6 x 35 mm	pieces	792,00
82	VB01A	Butterfly regulating damper, mounted on circular ducts type CFC-I, CFC-II, with perimeter 800 - 1600 mm	pieces	16,000
	7136060011900	Ventilation and air conditioning installer	man-hours	63,296
	2710403701203	Hot-rolled steel strip 4 × 20 mm	kg	0,32
	2413547308164	Technical calcium carbide (carbide) S102	kg	1,60
	2710703500025	Equal angle steel 20 × 20 × 3 mm	kg	40,00
	2521306716872	Plain polyvinyl chloride plastic sheet G = 0,3 mm width >1000 S 8737	kg	0,24
	2112517330399	Cardboard type I, 3.3 mm	kg	0,32
	2874125895175	Rivet with semi-round head 4 × 10 mm	kg	0,272
	2710603420201	Hot-rolled square steel D = 14 mm	kg	1,36
	2710603402869	Hot-rolled round steel dn 25 mm	kg	1,52
	2411115904512	Technical gaseous oxygen S2031	m ³	0,16
	2874115842659	Semi-precision hexagonal nuts S 4071 M 5 grade 5	pieces	64,00
	2874115842600	Hexagonal nuts M8	pieces	16,00
	2874135840405	Standard hexagonal nut M6	pieces	192,00
	2874115842661	Semi-precision hexagonal nuts S 4071 M 6 grade 5	pieces	16,00
	2735725903453	Welding wire, ordinary, diameter 3.25 mm	kg	1,76
	2710403603798	Sheet metal for mechanical constructions 2,0 × 1000 × 2000	kg	0,224
	2710403604481	Sheet metal for mechanical constructions 3 × 1000 × 2000	kg	6,08
	2430116103294	Red lead paint v.351-3 NTR 90	kg	1,60
	2874125895163	Spring washer M5	pieces	64,00
	2874115883938	Spring washer M6	pieces	16,00
	2874125881198	Flat washer for metal M6	pieces	192,00
	2874115800390	Hexagon head screw 6 × 30 mm	pieces	16,00
	2874115804669	Hexagon head screw M8 × 30, grade 6.8	pieces	16,00
	2874115895149	Hexagon head screw M 5 × 20 mm	pieces	64,00
	2874115819963	Hexagon head screw 6 × 25 mm	pieces	192,00
	3110500002401	Welding machine, 28–35 kW	machine-hours	2,76
	2922140006702	Window crane	machine-hours	0,368
83	VB02A	Butterfly regulating damper installed on rectangular ducts type CFR-I, CFR-II, with perimeter 1000–1600 mm	pieces	34,000
	7136060011900	Ventilation and air conditioning installer	man-hours	135,286
	2710403701203	Hot-rolled steel strip 4 × 20 mm	kg	7,14
	2413547308164	Technical calcium carbide (carbide) S102	kg	2,278
	2710703500025	Equal angle steel 20 × 20 × 3 mm	kg	49,30
	2521306716872	Plain polyvinyl chloride plastic sheet G = 0,3 mm	kg	0,51

1	2	3	4	5
		width >1000 S 8737		
	2112517330399	Cardboard type I, 3,3 mm	kg	0,85
	2874125895015	Rivet with semi-round head 6 × 10 mm	kg	0,578
	2710603420201	Hot-rolled square steel D = 14 mm	kg	2,89
	2710603402869	Hot-rolled round steel dn 25 mm	kg	3,23
	2411115904512	Technical gaseous oxygen S2031	m ³	1,70
	2874115842659	Semi-precision hexagonal nuts S 4071 M 5 grade 5	pieces	272,00
	2874135840405	Standard hexagonal nut M6	pieces	952,00
	2735725903453	Welding wire, ordinary, diameter 3.25 mm	kg	13,60
	2710403604481	Sheet metal for mechanical constructions 3 × 1000 × 2000	kg	12,58
	2430116103294	Red lead paint v.351-3 NTR 90	kg	5,10
	2874115883421	Spring washer M10	pieces	34,00
	2874125895163	Spring washer M5	pieces	272,00
	2874125881198	Flat washer for metal M6	pieces	952,00
	2874115800390	Hexagon head screw 6 × 30 mm	pieces	34,00
	2874115804669	Hexagon head screw M8 × 30, grade 6.8	pieces	34,00
	2874115895187	Hexagon head screw M5 × 16 mm	pieces	272,00
	2874115819963	Hexagon head screw 6 × 25 mm	pieces	952,00
	3110500002401	Welding machine, 28–35 kW	machine-hours	5,865
	2922140006702	Window crane	machine-hours	0,782
Total Ventilation Networks				
		2.2. Heating and cooling networks		
84	VC18A	Installation of the special modular air conditioning unit, type ACM-5, for mixing, filtration, heating, humidification, cooling, reheating, ventilation, distribution, noise attenuation, having a treated air flow rate of 3.500 - 12.000 m ³ /h, equipment cost) K4 Small materials (water, petroleum, cleaning rags, electrical energy, etc.) = 1,005	pieces	1,000
	7136060011900	Ventilation and air conditioning installer	man-hours	65,251
	2710403700053	Hot-rolled flat steel OL 37 20 × 2,0 mm (steel strip)	kg	0,502
	2651122100024	Portland cement P 40 bags S388	kg	1,507
	2430226100814	Red lead primer G 355-6	kg	0,251
	2112517330399	Cardboard type I, 3,3 mm	kg	0,151
	2874115842702	Hexagonal nut M10	pieces	60,30
	2874135840405	Standard hexagonal nut M6	pieces	8,04
	2874115842760	Hexagonal nut M12	pieces	16,08
	2874115820390	Screws cap hexagonal 10 x 35 mm, gr 4.8	pieces	60,30
	2874115827556	Foundation bolt M12 × 160	pieces	16,08
	2874115820089	Screws cap hexagonal 6 x 60 mm	pieces	8,04
	3110500002401	Welding machine, 28–35 kW	machine-hours	0,46
	2952270007602	Tirfor 1.5 ton-force (tf) cable puller	machine-	0,575

1	2	3	4	5
			hours	
85	IA24C applicative	Connection elevator of the central heating installation (with hot water) to the hot water network, -RA5-RA7	pieces	3,000
	7136040011749	Heating and gas installer	man-hours	10,35
	2875274401000	Flat flange Pn 6	pieces	9,00
	2513206622020	Marsit sheet 3,0 mm, 25 atm	kg	0,93
	2874115818414	Precision hexagon head screw M 16 × 60 grade 5,8	pieces	36,00
	2874115840558	Hexagonal nut M16	pieces	36,00
	2874125881344	Flat washer M18	pieces	36,00
	2413547308164	Technical calcium carbide (carbide) S102	kg	12,72
	2411115904512	Technical gaseous oxygen S2031	m ³	4,68
	2734125900487	Ordinary welding wire dn = 2,5 mm	kg	5,46
86	VC37K	Installation of domestic air conditioning units (split system) with motor power greater than 12,5 kW, from ladders K1.1; K2.1 Small materials = 1,050	pieces	4,000
	7136060011900	Ventilation and air conditioning installer	man-hours	19,32
	2811236305075	Brackets	kg	50,40
	2521305734008	Cable ducts 60 × 40 T-Plast, straight	m	2,10
	2521305734009	Cable ducts 16 × 16 T-Plast, straight	m	8,40
	2051142950706	Spacer dowels made of plastic material 6 × 40 mm	pieces	63,00
	2874115850014	Anchor bolt	kg	1,109
	2411117322835	Freon	kg	6,30
	2940520007610	Electric hammer drill	machine-hours	1,886
	2952270007609	Electric drilling machine	machine-hours	0,552
	3410520005700	Telescopic boom lift, height 30–35 m, lifting capacity 350 kg	machine-hours	5,796
87	VC37D	Installation of domestic air conditioning units (split system) with motor power up to 8,5 kW, from ladders k = 0.5, K1.2 - 15; K3.3 - 7 Small materials = 1,050 Coefficient = 0,500	pieces	43,000
	7136060011900	Ventilation and air conditioning installer	man-hours	98,90
	2811236305075	Brackets	kg	180,60
	2521305734008	Cable ducts 60 × 40 T-Plast, straight	m	11,287
	2521305734009	Cable ducts 16 × 16 T-Plast, straight	m	45,15
	2874115850014	Anchor bolt	kg	5,96
	2411117322835	Freon	kg	20,318
	2940520007610	Electric hammer drill	machine-hours	10,137
	2952270007609	Electric drilling machine	machine-hours	2,967

1	2	3	4	5
	2952270006618	Electric winch, pulling force 5,79 (059) kN (tonne)	machine-hours	3,462
88	Supplier price	Copper pipe D = 6.35 (State Standard (GOST) 617-2006) "METANCOR"	m	212,000
	20001	Copper pipe D = 6.35 (State Standard (GOST) 617-2006)	m	212,00
89	Supplier price	Copper pipe D = 9.52 (State Standard (GOST) 617-2006) "METANCOR"	m	134,000
	20003	Copper pipe D = 9.52	m	134,00
90	Supplier price	Copper pipe D = 12,7 (State Standard (GOST) 617-2006) "METANCOR"	m	233,000
	200030025	Copper pipe D = 12,7	m	233,00
91	Supplier price	Copper pipe D = 15.88 (State Standard (GOST) 617-2006) "METANCOR"	m	119,000
	20002	Copper pipe D = 15.88	m	119,00
92	Supplier price	Copper pipe D = 19.05 (State Standard (GOST) 617-2006) "METANCOR"	m	54,000
	20004	Copper pipe D = 19.05	m	54,00
93	Supplier price	Copper pipe D = 22.2 (State Standard (GOST) 617-2006) "METANCOR"	m	40,000
	200010	Copper pipe D = 22.2	m	40,00
94	Supplier price	Copper pipe D = 28.58 (State Standard (GOST) 617-2006) "METANCOR"	m	95,000
	200011	Copper pipe D = 28.58	m	95,00
95	SA38D	Clamp for fixing water and gas supply pipelines, made of steel or PVC, mounted by shooting, the pipelines having the diameter of 1 1/4"	pieces	300,000
	7136020011620	Water and sewer installer	man-hours	20,70
	2875274204040 32	Clamp for water and gas installation pipes d = 32	pieces	300,00
	2121117308308	Corrugated cardboard, type 2, in rolls of 1 m	kg	1,50
	2874115893468	Drive pin M 6	pieces	300,00
	2874135840405	Standard hexagonal nut M6	pieces	300,00
	2461117308499	Pistol cartridge 6,3 mm	pieces	300,00
96	SA38E	Clamp for fixing water and gas supply pipelines, made of steel or PVC, mounted by shooting, the pipelines having the diameter of 1 1/2"	pieces	350,000
	7136020011620	Water and sewer installer	man-hours	24,15
	2875274204040 40	Clamp for water and gas installation pipes d = 40	pieces	350,00

1	2	3	4	5
	2121117308308	Corrugated cardboard, type 2, in rolls of 1 m	kg	1,75
	2874115893468	Drive pin M 6	pieces	350,00
	2874135840405	Standard hexagonal nut M6	pieces	350,00
	2461117308499	Pistol cartridge 6,3 mm	pieces	350,00
97	Supplier price	Expanded rubber insulation for copper pipe D = 6.35, S = 6 mm ACE-06x006 "ARMAPLEX"	m	212,000
	200012	Expanded rubber insulation for copper pipe D = 6.35, S = 6 mm	m	212,00
98	Supplier price	Expanded rubber insulation for copper pipe D = 9.52, S = 6 mm ACE-06x010 "ARMAPLEX"	m	134,000
	200013	Expanded rubber insulation for copper pipe D = 9.52, S = 6 mm	m	134,00
99	Supplier price	Expanded rubber insulation for copper pipe D = 12.7, S = 9 mm ACE-09x012 "ARMAPLEX"	m	233,000
	200014	Expanded rubber insulation for copper pipe D = 12.7, S = 9 mm	m	233,00
100	Supplier price	Expanded rubber insulation for copper pipe D = 15.88, S = 9 mm ACE-09x015 "ARMAPLEX"	m	119,000
	200015	Expanded rubber insulation for copper pipe D = 15.88, S = 9 mm	m	119,00
101	Supplier price	Expanded rubber insulation for copper pipe D = 19.05, S = 13 mm ACE-13x018 "ARMAPLEX"	m	54,000
	200016	Expanded rubber insulation for copper pipe D = 19.05, S = 13 mm	m	54,00
102	Supplier price	Expanded rubber insulation for copper pipe D = 22.2, S = 13 mm ACE-13x022 "ARMAPLEX"	m	40,000
	200017	Expanded rubber insulation for copper pipe D = 22.2, S = 13 mm	m	40,00
103	Supplier price	Expanded rubber insulation for copper pipe D = 28.58, S = 19 mm ACE-19x028 "ARMAPLEX"	m	95,000
	200018	Expanded rubber insulation for copper pipe D = 28.58, S = 19 mm	m	95,00
104	IC36C	Metal-plastic drainage pipe PE-Xb/AL/PE-Xb D = 32 × 3 "VALTEC"	m	210,000
	7136040011749	Heating and gas installer	man-hours	96,60
	2521216710000	Metal-plastic drainage pipe PE-Xb/AL/PE-Xb D	m	216,30

1	2	3	4	5
	1	= 32 × 3		
105	IC36D	Metal-plastic drainage pipe PE-Xb/AL/PE-Xb D = 40 × 3.5 “VALTEC”	m	250,000
	7136040011749	Heating and gas installer	man-hours	129,375
	2521216710000	Metal-plastic drainage pipe PE-Xb/AL/PE-Xb D = 40 × 3.5	m	257,50
106	SB28A	Trap with gasket, DN40 horizontal, with hydraulic flap and mechanical odor blocking device, type HL 136,3 “COOPER&HUNTER” Small materials (cement, sand, water, etc.) = 1,010	pieces	5,000
	7136020011620	Water and sewer installer	man-hours	1,438
	252312672115	Trap with gasket, DN40 horizontal, with hydraulic flap and mechanical odor blocking device, type HL 136,3	pieces	5,05
	2451437345967	Ointment solution	kg	0,018
	2112307325046	Absorbent paper	kg	0,051
107	pp	Propylene glycol 40% up to -20 C	l	500,000
	00001	Propylene glycol 40% up to -20 C	l	500,00
Total Heating and cooling networks				
Total				
Social insurance				
Transportation of materials				
Storage of materials				
Total				
Overhead expenses				
Total				
Estimated profit				
Total Installation Works				
		3. Equipment		
		3.1. Ventilation system		
108	Supplier price	Monoblock rooftop air conditioning units, automation included L = 21000 m ³ /h, P = 450 Pa, Ne = 33 kW, -3,380 V, 50 Hz type RFS-20-125Y-HP-E82 “VENSERVICE” -RA1	pieces	1,000
	2952270003151	Monoblock rooftop air conditioning units, automation included L = 21000 m ³ /h, P = 450 Pa,	pieces	1,00

1	2	3	4	5
		Ne = 33 rW, -3,380 V, 50 Hz type RFS-20-125-HP-E82 "VENSERVICE" -RA1		
109	Supplier price	Monoblock rooftop air conditioning units, automation included L = 21000 m ³ /h, P = 450 Pa, Ne = 33 kW, -3,380 V, 50 Hz type RFS-20-125Y-HP-E82 "VENSERVICE" -RA2	pieces	1,000
	2952270003151	Monoblock rooftop air conditioning units, automation included L = 21000 m ³ /h, P = 450 Pa, Ne = 33 rW, -3,380 V, 50 Hz type RFS-20-125-HP-E82 "VENSERVICE" -RA2	pieces	1,00
110	Supplier price	Monoblock rooftop air conditioning units, automation included L = 36000 m ³ /h, P = 450 Pa, Ne = 33 rW, -3,380 V, 50 Hz type RFS-20-200Y-HP-E82 "VENSERVICE" -RA3	pieces	4,000
	2952270003122	Monoblock rooftop air conditioning units, automation included L = 36000 m ³ /h, P = 450 Pa, Ne = 33 rW, -3,380 V, 50 Hz type RFS-20-200Y-HP-E82 "VENSERVICE" -RA3	pieces	4,00
111	Supplier price	Air handling unit with heat recovery, water heater/cooler and control panel included L = 3000/4200 m ³ /h, P = 300 Pa, Ne = 3 kW, 3,380 V, 50 Hz type Modular MS-5 "KOMFOVENT" -RA5	pieces	1,000
	2952270003131	Air handling unit with heat recovery, water heater/cooler and control panel included L = 3000/4200 m ³ /h, P = 300 Pa, Ne = 3 kW, 3,380 V, 50 Hz type Modular MS-5 "KOMFOVENT" -RA5	pieces	1,00
112	Supplier price	Air handling unit with heat recovery, water heater/cooler and control panel included L = 4800/4500 m ³ /h, P = 300 Pa, Ne = 4.3 kW, 3,380 V, 50 Hz type Modular MS-7 "KOMFOVENT" -RA6	pieces	1,000
	2952270003189 1	Air handling unit with heat recovery, water heater/cooler and control panel included L = 4800/4500 m ³ /h, P = 300 Pa, Ne = 4.3 kW, 3,380 V, 50 Hz type Modular MS-7 "KOMFOVENT" -RA6	pieces	1,00
113	Supplier price	Air handling unit with heat recovery, water heater/cooler and control panel included L = 7000/6500 m ³ /h, P = 300 Pa, Ne = 6.2 kW, 3,380 V, 50 Hz type Modular MS-9 "KOMFOVENT" -RA7	pieces	1,000
	2952270003999	Air handling unit with heat recovery, water heater/cooler and control panel included L = 7000/6500 m ³ /h, P = 300 Pa, Ne = 6.2 kW, 3,380	pieces	1,00

1	2	3	4	5
		V, 50 Hz type Modular MS-9 "KOMFOVENT" - RA7		
114	Supplier price	Round duct fan L = 150 m ³ /h, kW, P = 400 Pa, Ne = 0.2 kW, -1,230 V, 50 Hz type RS125 EC "KOMFOVENT" -A8	pieces	1,000
	2291243577560 0	Round duct fan L = 150 m ³ /h, kW, P = 400 Pa, Ne = 0.2 kW, -1,230 V, 50 Hz type RS125 EC "KOMFOVENT"	pieces	1,00
115	Supplier price	Round duct fan L = 450 m ³ /h, kW, P = 350 Pa, Ne = 0.2 kW, -1,230 V, 50 Hz type RS 200 EC "KOMFOVENT" -A9	pieces	1,000
	2291243577520 0	Round duct fan L = 450 m ³ /h, kW, P = 350 Pa, Ne = 0.2 kW, -1,230 V, 50 Hz type RS125 EC "KOMFOVENT"	pieces	1,00
116	Supplier price	Round duct fan L = 150 m ³ /h, kW, P = 400 Pa, Ne = 0.2 kW, -1,230 V, 50 Hz type RS125 EC "KOMFOVENT" -A10	pieces	1,000
	2291243577560 0	Round duct fan L = 150 m ³ /h, kW, P = 400 Pa, Ne = 0.2 kW, -1,230 V, 50 Hz type RS125 EC "KOMFOVENT"	pieces	1,00
117	Supplier price	Round duct fan L = 450 m ³ /h, kW, P = 350 Pa, Ne = 0.2 kW, -1,230 V, 50 Hz type RS 200 EC "KOMFOVENT" -A11	pieces	1,000
	2291243577520 0	Round duct fan L = 450 m ³ /h, kW, P = 350 Pa, Ne = 0.2 kW, -1,230 V, 50 Hz type RS125 EC "KOMFOVENT"	pieces	1,00
118	Supplier price	Round duct fan L = 300 m ³ /h, kW, P = 400 Pa, Ne = 0.2 kW, -1,230 V, 50 Hz type RS 160 EC "KOMFOVENT" -A12	pieces	1,000
	2291243577516 0	Round duct fan L = 300 m ³ /h, kW, P = 400 Pa, Ne = 0.2 kW, -1,230 V, 50 Hz type RS 160 EC "KOMFOVENT"	pieces	1,00
119	Supplier price	Round duct fan L = 300 m ³ /h, kW, P = 400 Pa, Ne = 0.2 kW, -1,230 V, 50 Hz type RS 160 EC "KOMFOVENT" -A13	pieces	1,000
	2291243577516 0	Round duct fan L = 300 m ³ /h, kW, P = 400 Pa, Ne = 0.2 kW, -1,230 V, 50 Hz type RS 160 EC "KOMFOVENT"	pieces	1,00
120	Supplier price	Round duct fan L = 100 m ³ /h, kW, P = 400 Pa, Ne = 0.2 kW, -1,230 V, 50 Hz type RS 100 EC "KOMFOVENT" -A14	pieces	1,000
	2291243577510 0	Round duct fan L = 100 m ³ /h, kW, P = 400 Pa, Ne = 0.2 kW, -1,230 V, 50 Hz type RS 100 EC "KOMFOVENT"	pieces	1,00
121	Supplier	Round duct fan L = 100 m ³ /h, kW, P =	pieces	1,000

1	2	3	4	5
	price	400 Pa, Ne = 0.2 kW, -1,230 V, 50 Hz type RS 100 EC "KOMFOVENT" "-A15		
	2291243577510 0	Round duct fan L = 100 m ³ /h, kW, P = 400 Pa, Ne = 0.2 kW, -1,230 V, 50 Hz type RS 100 EC "KOMFOVENT"	pieces	1,00
122	10.5	Circular noise attenuator D = 100 mm, L = 1000 mm AGS-100 "KOMFOVENT"	pieces	4,000
	7287411576100 0	Circular noise attenuator D = 100 mm, L = 600 mm, made of galvanized sheet metal	pieces	4,00
123	10.6	Circular noise attenuator D = 125 mm, L = 1000 mm AGS-125 "KOMFOVENT"	pieces	4,000
	8287411576100 0	Circular noise attenuator D = 125 mm, L = 600 mm, made of galvanized sheet metal	pieces	4,00
124	10.6	Circular noise attenuator D = 160 mm, L = 1000 mm AGS-160 "KOMFOVENT"	pieces	4,000
	8287411576101 60	Circular noise attenuator D = 160 mm, L = 1000 mm, made of galvanized sheet metal	pieces	4,00
125	10.7	Circular noise attenuator D = 200 mm, L = 1000 mm AGS-200 "KOMFOVENT"	pieces	4,000
	2828741157610 00	Circular noise attenuator D = 200 mm, L = 600 mm, made of galvanized sheet metal	pieces	4,00
126	10.4	Noise attenuator 800 × 800 mm, L = 1000 mm STS 800×800 "KOMFOVENT"	pieces	8,000
	6287411576108 00	Noise attenuator 800 × 800 mm, L = 1000 mm STS 800×800 "KOMFOVENT"	pieces	8,00
127	10.4	Noise attenuator 1000 × 500 mm, L = 1000 mm ST1000×500 "KOMFOVENT"	pieces	8,000
	6287411576105 00	Noise attenuator 1000 × 500 mm, L = 1000 mm STS1000×500 "KOMFOVENT"	pieces	8,00
128	10.4	Noise attenuator 1000 × 1000 mm, L = 1000 mm ST1000×1000 "KOMFOVENT"	pieces	8,000
	6287411576101 000	Noise attenuator 1000 × 1000 mm, L = 1000 mm STS1000×1000 "KOMFOVENT"	pieces	8,00
129	10.4	Noise attenuator 1200 × 600 mm, L = 1000 mm ST1200×600 "KOMFOVENT"	pieces	4,000
	6287411576106 00	Noise attenuator 1200 × 600 mm, L = 1000 mm STS1200×600 "KOMFOVENT"	pieces	4,00
130	10.4	Noise attenuator 1600 × 800 mm, L = 1000 mm STS1600×800 "KOMFOVENT"	pieces	4,000

1	2	3	4	5
	6287411576101 600	Noise attenuator 1600 × 800 mm, L = 1000 mm STS 1600×800 “KOMFOVENT”	pieces	4,00
131	10.4	Noise attenuator 2000 × 1000 mm, L = 1000 mm ST2000×1000 “KOMFOVENT”	pieces	12,000
	6287411576102 000	Noise attenuator 2000 × 1000 mm, L = 1000 mm STS 2000×1000 “KOMFOVENT”	pieces	12,00
132	Supplier price	Rectangular control air damper actuated by actuator 800×800 mm type SRC-M- 800×800 “KOMFOVENT”	pieces	2,000
	8.500x800	Rectangular control air damper actuated by actuator 800×800 mm type SRC-M-800×800	pieces	2,00
133	Supplier price	Rectangular control air damper actuated by actuator 1600×800 mm type SRC-M- 1600×800 “KOMFOVENT”	pieces	8,000
	8.500x1600	Rectangular control air damper actuated by actuator 1600×800 mm type SRC-M-1600×800	pieces	8,00
134	Supplier price	Rectangular control air damper manually operated 500×300 mm type SRC-R- 500×300 “KOMFOVENT”	pieces	4,000
	8.500z300	Rectangular control air damper manually operated 500×300 mm type SRC-R-500×300	pieces	4,00
135	Supplier price	Rectangular control air damper manually operated 600×300 mm type SRC-R- 600×300 “KOMFOVENT”	pieces	4,000
	8.600z300	Rectangular control air damper manually operated 600×300 mm type SRC-R-600×300	pieces	4,00
136	Supplier price	Rectangular control air damper manually operated 700×300 mm type SRC-R- 700×300 “KOMFOVENT”	pieces	1,000
	8.700z300	Rectangular control air damper manually operated 700×300 mm type SRC-R-700×300	pieces	1,00
137	Supplier price	Rectangular control air damper manually operated 800×200 mm type SRC-R- 800×200 “KOMFOVENT”	pieces	5,000
	8.800x200	Rectangular control air damper manually operated 800×200 mm type SRC-R-800×200	pieces	5,00
138	Supplier price	Rectangular control air damper manually operated 800×300 mm type SRC-R- 800×300 “KOMFOVENT”	pieces	1,000
	8.800x300	Rectangular control air damper manually operated 800×300 mm type SRC-R-800×300	pieces	1,00
139	Supplier	Rectangular control air damper manually	pieces	1,000

1	2	3	4	5
	price	operated 800×400 mm type SRC-R-800×400 “KOMFOVENT”		
	8.800×400	Rectangular control air damper manually operated 800×400 mm type SRC-R-800×400	pieces	1,00
140	Supplier price	Rectangular control air damper manually operated 1000×1000 mm type SRC-R-1000×1000 “KOMFOVENT”	pieces	8,000
	8.1000×10	Rectangular control air damper manually operated 1000×1000 mm type SRC-R-1000×1000	pieces	8,00
141	Supplier price	Air backdraft damper d = 100 mm RSK-100 “KOMFOVENT”	pieces	2,000
	9.1	Air backdraft damper d = 100 mm RSK-100 “KOMFOVENT”	pieces	2,00
142	Market price	Air backdraft damper d = 125 mm RSK-125 “KOMFOVENT”	pieces	2,000
	9.125	Air backdraft damper d = 125 mm RSK-125 “KOMFOVENT”	pieces	2,00
143	Supplier price	Air backdraft damper d = 160 mm RSK-160 “KOMFOVENT”	pieces	2,000
	9.160	Air backdraft damper d = 160 mm RSK-160	pieces	2,00
144	Supplier price	Air backdraft damper d = 200 mm RSK-200 “KOMFOVENT”	pieces	2,000
	9.200	Air backdraft damper d = 200 mm RSK-200	pieces	2,00
145	Supplier price	Round control air damper manually operated d = 315 mm AGUU-R-315 “KOMFOVENT”	pieces	8,000
	9.315	Round control air damper manually operated d = 315 mm AGUU-R-315	pieces	8,00
146	Supplier price	Horizontal air curtain without heater L = 5000 m ³ /h, Ne = 0,35 kW -1,230 V, 50 Hz type BHC-H20 A-PS “BALLU” -PA1	pieces	7,000
	295227009632	Horizontal air curtain without heater L = 5000 m ³ /h, Ne = 0,35 kW -1,230 V, 50 Hz type BHC-H20 A-PS “BALLU”	pieces	7,00
147	Supplier price	Horizontal air curtain without heater L = 5000 m ³ /h, Ne = 0,35 kW -1,230 V, 50 Hz type BHC-H20 A-PS “BALLU” -PA3	pieces	9,000
	295227009632	Horizontal air curtain without heater L = 5000 m ³ /h, Ne = 0,35 kW -1,230 V, 50 Hz type BHC-H20 A-PS “BALLU”	pieces	9,00
148	Supplier price	Horizontal air curtain without heater L = 8400 m ³ /h, Ne = 3,9 kW -3,380 V, 50 Hz	pieces	4,000

1	2	3	4	5
		type PVZ-900×500-H-3 “VENTS” -PA2		
	29522700963	Horizontal air curtain without heater L = 8400 m ³ /h, Ne = 3,9 kW -3,380 V, 50 Hz type PVZ-900×500-H-3 “VENTS”	pieces	4,00
149	Supplier price	Rectangular external hood 500×500 SHP-500×500 “KOMFOVENT”	pieces	4,000
	568888	Rectangular external hood 500×500 SHP-500×500 “KOMFOVENT”	pieces	4,00
150	Supplier price	Rectangular external hood 600×600 SHP-600×600 “KOMFOVENT”	pieces	2,000
	568888600	Rectangular external hood 600×600 SHP-600×600 “KOMFOVENT”	pieces	2,00
Total Ventilation system				
3.2. Heating and cooling system				
151	Supplier price	Reversible air-to-water heat pump Qi/r = 114/106 kW, Ne = 32 kW, ~3,380 V, 50 Hz type EAC2-92-2IP4E-0 “ALPENTA”	pieces	1,000
	15001	Reversible air-to-water heat pump Qi/r = 114/106 kW, Ne = 32 kW, ~3,380 V, 50 Hz type EAC2-92-2IP4E-0 “ALPENTA”	pieces	1,00
152	Supplier price	Pump with fittings for heater/cooler system RA5 type PPU-CW-3R-25-6.3-W4 “KOMFOVENT”	pieces	1,000
	15002	Pump with fittings for heater/cooler system RA5 type PPU-CW-3R-25-6.3-W4	pieces	1,00
153	Supplier price	Pump with fittings for heater/cooler system RA6 type PPU-CW-3R-32-16-W5 “KOMFOVENT”	pieces	1,000
	15003	Pump with fittings for heater/cooler system RA6 type PPU-CW-3R-32-16-W5	pieces	1,00
154	Supplier price	Pump with fittings for heater/cooler system RA7 type PPU-CW-3R-40-25-W7 “KOMFOVENT”	pieces	1,000
	15004	Pump with fittings for heater/cooler system RA7 type PPU-CW-3R-40-25-W7	pieces	1,00
155	Supplier price	Manual shut-off valve with presetting DN25 ASV-I DN25 “DANFOSS”	pieces	2,000
	15005	Manual shut-off valve with presetting DN25 ASV-I DN25	pieces	2,00
156	Supplier price	Manual shut-off valve with presetting DN32 ASV-I DN32 “DANFOSS”	pieces	2,000

1	2	3	4	5
	15006	Manual shut-off valve with presetting DN32 ASV-I DN32	pieces	2,00
157	Supplier price	Manual shut-off valve with presetting DN40 ASV-I DN40 "DANFOSS"	pieces	2,000
	15007	Manual shut-off valve with presetting DN40 ASV-I DN40	pieces	2,00
158	Supplier price	Butterfly valve DN80 SYLAX DN80 "DANFOSS"	pieces	2,000
	15009	Butterfly valve DN80 SYLAX DN80	pieces	2,00
159	Supplier price	Outdoor unit, VRF Text = 20/35 Qi/r = 76.5/69 kW, Ne = 19 kW PUHY-P600 YSNW-A1 "Mitsubishi Electric"	pieces	1,000
	150011	Outdoor unit, VRF Text = 20/35 Qi/r = 76.5/69 kW, Ne = 19 kW PUHY-P600 YSNW-A1 "Mitsubishi Electric"	pieces	1,00
160	Supplier price	Indoor unit, VRF L = 780 m ³ /h, Qi/r = 6.3/5.6 kW Ne = 0.1 kW, -3,380 V, 50 Hz PLFY-P50 VFM-E1R1.TH "Mitsubishi Electric"	pieces	14,000
	150010	Indoor unit, VRF L = 780 m ³ /h, Qi/r = 6.3/5.6 kW Ne = 0.1 kW, -3,380 V, 50 Hz PLFY-P50 VFM-E1R1.TH "Mitsubishi Electric"	pieces	14,00
161	Supplier price	Outdoor unit VRF Text = 20/35, Qi/r = 76.5/69, Ne = 19.3 kW, -3,380 V 50 Hz PUHY-P600 YSNW-A1 "Mitsubishi Electric"	pieces	1,000
	150012	Outdoor unit VRF Text = 20/35, Qi/r = 76.5/69, Ne = 19.3 kW, -3,380 V 50 Hz PUHY-P600 YSNW-A1 "Mitsubishi Electric"	pieces	1,00
162	Supplier price	Indoor VRF unit, L = 520 m ³ /h, Qi/r = 2.5/2.2 kW Ne = 0,1 kW -3,380 V, 50 Hz PMFY-P20 VBM-ER4 "Mitsubishi Electric"	pieces	1,000
	150014	Indoor VRF unit, 520 m ³ /h, 2.5/2.2 kW PMFY-P20 VBM-ER4	pieces	1,00
163	Supplier price	Indoor VRF unit, L = 550 m ³ /h, Qi/r = 3.2/2.8 kW Ne = 0,1 kW -3,380 V, 50 Hz PMFY-P25 VBM-ER4 "Mitsubishi Electric"	pieces	2,000
	150015	Indoor VRF unit, L = 550 m ³ /h, Qi/r = 3.2/2.8 kW Ne = 0,1 kW -3,380 V, 50 Hz PMFY-P25 VBM-ER4 "Mitsubishi Electric"	pieces	2,00
164	Supplier price	Indoor VRF unit, L = 640 m ³ /h, Qi/r = 5/4,5 kW Ne = 0,1 kW -3,380 V, 50 Hz PMFY-P40 VBM-ER4 "Mitsubishi	pieces	1,000

1	2	3	4	5
		Electric”		
	150016	Indoor VRF unit, L = 640 m ³ /h, Qi/r = 5/4,5 kW Ne = 0,1 kW -3,380 V, 50 Hz PMFY-P40 VBM-ER4 “Mitsubishi Electric”	pieces	1,00
165	Supplier price	Indoor VRF unit, L = 570 m ³ /h, Qi/r = 3.2/2.8 kW Ne = 0,1 kW -3,380 V, 50 Hz PLFY-P25 VLMD-E “Mitsubishi Electric”	pieces	2,000
	150017	Indoor VRF unit, L = 570 m ³ /h, Qi/r = 3.2/2.8 kW Ne = 0,1 kW -3,380 V, 50 Hz PLFY-P25 VLMD-E “Mitsubishi Electric”	pieces	2,00
166	Supplier price	Indoor VRF unit, L = 640 m ³ /h, Qi/r = 5/4,5 kW Ne = 0,1 kW -3,380 V, 50 Hz PMFY-P40 VBM-ER4 “Mitsubishi Electric”	pieces	8,000
	150016	Indoor VRF unit, L = 640 m ³ /h, Qi/r = 5/4,5 kW Ne = 0,1 kW -3,380 V, 50 Hz PMFY-P40 VBM-ER4 “Mitsubishi Electric”	pieces	8,00
167	Supplier price	Indoor VRF unit, L = 550 m ³ /h, Qi/r = 3.2/2.8 kW Ne = 0,1 kW -3,380 V, 50 Hz , PMFY-P25 VBM-ER4 “Mitsubishi Electric”	pieces	6,000
	150015	Indoor VRF unit, L = 550 m ³ /h, Qi/r = 3.2/2.8 kW Ne = 0,1 kW -3,380 V, 50 Hz PMFY-P25 VBM-ER4 “Mitsubishi Electric”	pieces	6,00
168	Supplier price	Indoor VRF unit, L = 640 m ³ /h, Qi/r = 5/4,5 kW Ne = 0,1 kW -3,380 V, 50 Hz PMFY-P40 VBM-ER4 “Mitsubishi Electric”	pieces	1,000
	150016	Indoor VRF unit, L = 640 m ³ /h, Qi/r = 5/4,5 kW Ne = 0,1 kW -3,380 V, 50 Hz PMFY-P40 VBM-ER4 “Mitsubishi Electric”	pieces	1,00
169	Supplier price	Indoor VRF unit, L = 570 m ³ /h, Qi/r = 3.2/2.8 kW Ne = 0,1 kW -3,380 V, 50 Hz PLFY-P25 VLMD-E “Mitsubishi Electric”	pieces	3,000
	150017	Indoor VRF unit, L = 570 m ³ /h, Qi/r = 3.2/2.8 kW Ne = 0,1 kW -3,380 V, 50 Hz PLFY-P25 VLMD-E “Mitsubishi Electric”	pieces	3,00
170	Supplier price	Outdoor VRF unit, Text = -20/35, Qi/r = 18/15.5, Ne = 4,9 kW, -3, 380 V, 50 Hz PUMY-P140 YKM4-ERR2 “Mitsubishi Electric”	pieces	2,000
	1500158	Outdoor VRF unit, Text = -20/35, Qi/r = 18/15.5, Ne = 4,9 kW, -3, 380 V, 50 Hz PUMY-P140	pieces	2,00

1	2	3	4	5
		YKM4-ERR2		
171	Supplier price	Indoor VRF unit, L = 640 m ³ /h, Qi/r = 5/4,5 kW Ne = 0,1 kW -3,380 V, 50 Hz PMFY-P40 VBM-ER4 "Mitsubishi Electric"	pieces	5,000
	150016	Indoor VRF unit, L = 640 m ³ /h, Qi/r = 5/4,5 kW Ne = 0,1 kW -3,380 V, 50 Hz PMFY-P40 VBM-ER4 "Mitsubishi Electric"	pieces	5,00
Total Heating and cooling system				
Total				
Procurement and storage of materials				
Total Equipment				

**Total estimate:
Including wages**

Subsemnata, Poleacova Ana, traducător autorizat, (limba Engleză), certific exactitatea traducerii cu textul înscrisului, care a fost vizată de mine și port răspundere personală pentru corectitudinea traducerii actului.

Undersigned, Poleacova Ana, sworn translator, (English language), certify the authenticity of the translation which corresponds to the text of the authentic document, which was confirmed by me and I do take personal responsibility for the truthfulness of the translation.

26.02.2026

*Semnătura
Signature*

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