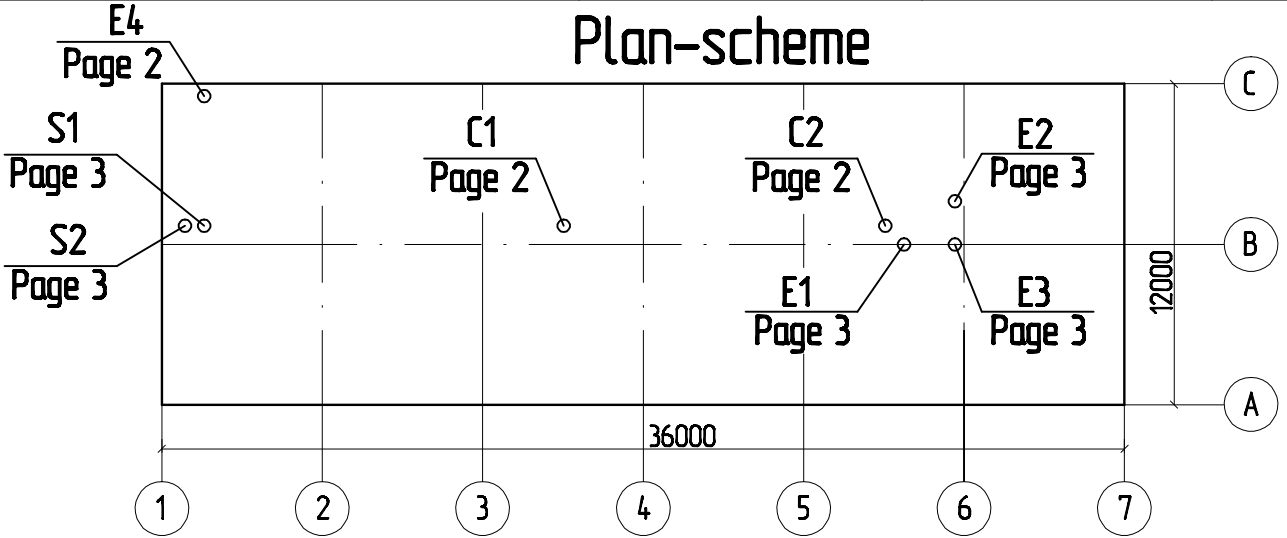


Characteristics of ventilation systems

System identifi- cation	Num- ber of sys- tems	Type of attended room (technological equipment)	Type of plant, item	Fan					Electric motor			Air heater (Air chilling unit)						Filter				Silencer		Note		
				Type, explosion protection	Scheme of ins- talla- tion	Loca- tion	L, m³/h	P, Pa	n, rpm	Type, explosion protection	N, kW	n, rpm	Type	N°	Number	Temperature of heating/ chilling, °C		Heat input/ cooling load, kW	Δ P, Pa	Type	N°	Num- ber	Δ P, Pa		Type	Num- ber
																from	to									
S1	1	MDR-TB department	VKC-S-5	ER40C	-	4970	235-cboñ, 591-total	1978	-	15	1978	electric/freon	1	-12	+20	61.6	80	pocket	G4	1	151	LDR 80-50	2			
S2	1	doctors' block	duct	VKV 600x300 4.3/380	-	1140	240-cboñ, 427-total	1415	-	1.74	1415	electric/freon	1	-12	+20	15.0	22	pocket	G4	1	137	LDR 60-30	2			
E1	1	MDR-TB department	duct	RSI 80-50 M3	-	4430	310	1335	IP 54	1.1	1335							SBOW 80-50/125 (13 UV lamps) FFK 80-50 (F5)	1	-						
E2	1	doctors' block	duct	RS 40-20 L	-	930	170	2556	IP 44	0.21	2556															
E3	1	sanitary room and shower for patients	duct	K 200 L	-	450	135	2630	IP 44	0.16	2630							SBOW 40-20/39 (4 UV lamps) FFK 40-20 (F5)	1	-		LDR 60-30	2			
E4	1	sanitary room for staff	axial	IN 15/6A	-	280	20		-	0.03																
C1, C2	2	corridor MDR-TB department	channel air conditioning	GFH42K3BI/ GUHN42NM3AO	-	2300			-	4.9/ 5.3						14.0/ 12.0		SBOW 60-30/77 (8 UV lamps) gauze	1	-						

List of main kit of HV (Heating and Ventilation) shop drawings

Page	Type	Note
1	Ventilation and air conditioning. General data	
2	Ventilation and air conditioning. 2 nd floor plan	
3	Ventilation and air conditioning. Attic plan	
4	Ventilation and air conditioning. Sectional drawings 1-1 and 2-2	
5	Ventilation and air conditioning. Sectional drawings 3-3 and 4-4	
6	Ventilation and air conditioning. Schemes of the systems S1, S2, SN1, C1, C2	
7	Ventilation and air conditioning. Schemes of the systems E1, E2, E3, E4	



List of reference and attached documents

Code	Type	Note
	Documents attached	
2011-161-02/04 - HV.EN	Explanatory note	
2011-161-02/04 - HV.SE	Equipment, materials and items specifications	

Main values of HV (Heating and Ventilation) Drawings

Type of building (construction) room	Volume, m³	Seasons with t _{out} , °C	Heat input, kW				Cooling load, kW	Electro-motors' installed power, kW
			for heating	for ventilation	for hot water supply	general		
MDR-TB department for 50 beds	1410.9	-12/+36	-	76.6	-	76.6	90.3	4.8

Type codes

- ▽

- supply grille
- △

- exhaust grille
- ⊗

- duct fan
- ⊙

- axial fan
- ▬

- silencer
- ▬▬▬

- bactericidal air treatment section
- ⌵

- throttle-valve
- ⌵

- back-flow valve

						2011-161-02/04 - HV			
						Turkmenistan, Mary Region, Turkmenbashi			
						Central Prison Hospital MRK-15			
Drawn by				Signature	Date	MDR-TB Department for 50 beds	Stage	Page	Pages
Project manager					2012		WP	1	8
						Ventilation and air conditioning. General data			