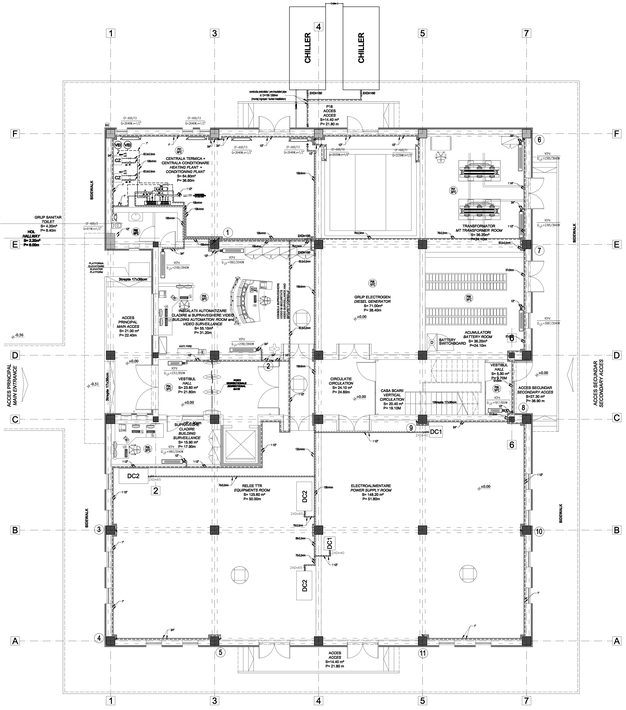

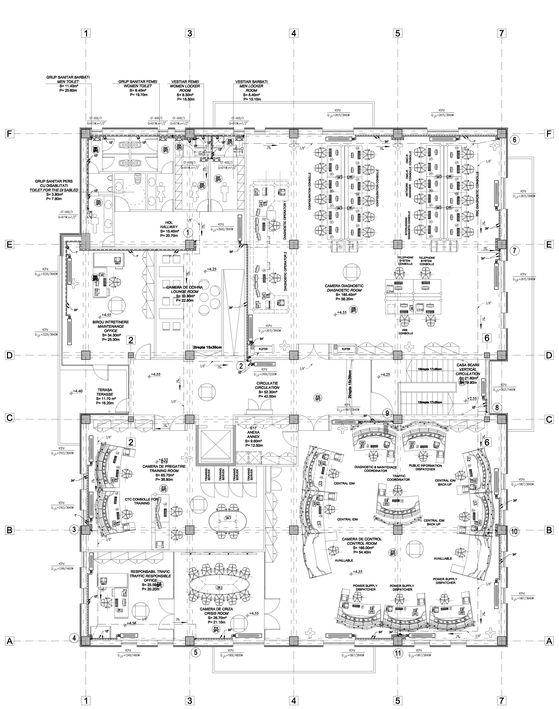

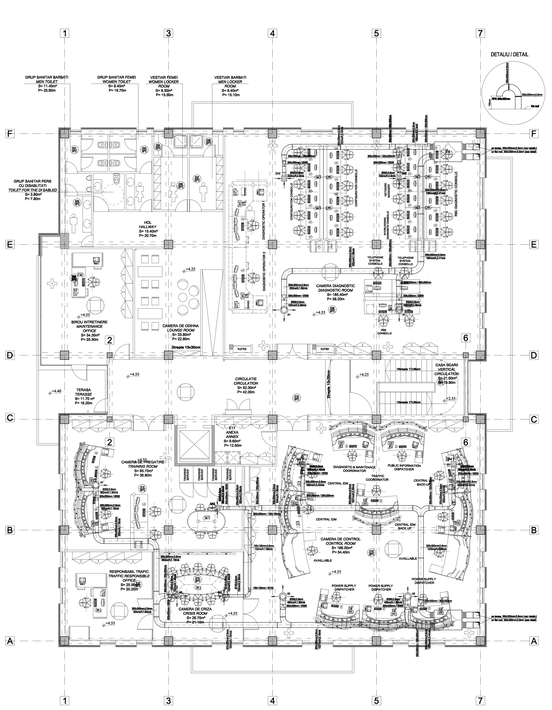

LEGENDA

Conducta din otel, agent termo lui
Conducta din otel, agent termo rece
Conducta de aerisire
C2 Centrala termica pentru incalzire, cu functionare pe gaze naturale, echipat cu cazan monotermo din aluminiu/otel, echipat cu bataria de comanda cu programarea functiei de temperatura exterioara, echipat cu vase de expansiune cu membrana si arzator pe gaz de tip mou, cu preamestec, puterea termica utile minimum/maxima 18,8/107 kW cu randament de 98,2 %
P1 Pompa tripata ciocan, debit 3 mc/h, inaltime de pompare 1,5 mCA, pentru circuitul de incalzire a centralei termice, pulere electrica 250 W, alimentare monofazata
P2 Pompa circulatie agent termo apa calda SOW/TC, pentru circuitul de incalzire cu ventilatoarele-aerotermi, debit 4,5 mc/h, inaltime de pompare 3,4 mCA la turatie inalta, pulere electrica 250 W, alimentare trifazata
P3 Pompa circulatie agent termo apa calda SOW/TC, pentru circuitul de incalzire cu radiatoare, debit 1,0 mc/h, inaltime de pompare 1,5 mCA la turatie inalta, pulere electrica 250 W, alimentare monofazata
P4 Pompa circulatie agent termo apa calda SOW/TC, pentru boiler, debit 3,0 mc/h, inaltime de pompare 1,5 mCA la turatie inalta, pulere electrica 250 W, alimentare monofazata
VE Vase de expansiune, 18 litri, 10 bar, 120°C
CF-HRI CF. Radiatoare din aluminiu cu niste de elementeni, tipul elementului-inaltimea/nr. de elementi.
VCFB Ventilatoarele de perimetrale
VR Vase de expansiune
VA Vase de aerisire
RG Robinet de gaze
RA Robinet de apa
SS Supape de siguranta
STG Sonda de temperatura exterioara
STA Sonda de temperatura apei
STC Termostatul interiorului de cabul
C.C. Colector modelmetru
DC1 Dulap de climatizare, functionare la ceas 7-12 grd. C, functionand cu freon ecologic R410A, pulere de tertre: 300KW, pulere electrica: 130KW, alimentare 400V/50Hz,antrenat cu motor tolitudo cuntpel si acoperit.
DC2 Dulap de climatizare, functionand cu apa racita, aspirata frontala inferioara si refulare frontala superioara, echipat cu ventilator centrifugal, cu carcasa, pulere, plenum si acoperit, capacitate de racire: 22,8KW, pulere electrica: 2KW, alimentare 400V/50Hz
DC3 Dulap de climatizare, functionand cu apa racita, aspirata frontala inferioara si refulare frontala superioara, echipat cu ventilator centrifugal, cu carcasa, pulere, plenum si acoperit, capacitate de racire: 45,5KW, pulere electrica: 3KW, alimentare 400V/50Hz
A1 Anemostat circular din aluminiu, Dext = 440mm, Dracord = 300mm
A2 Anemostat circular din aluminiu, Dext = 340mm, Dconexiune = 200mm
GA1 Grila de aspirate din aluminiu 300x200mm, inclusiv plenum (cod 200x200) cu recontare laterala D=150mm
GA2 Grila de aspirate din aluminiu 300x300mm, inclusiv plenum (cod 300x300) cu recontare laterala D=250mm
GA3 Aluminium aspirate grille 300x200mm, including isolated plenum (code 200x200) with lateral connection D=150mm
GA4 Aluminium aspirate grille 300x300mm, including isolated plenum (code 300x300) with lateral connection D=250mm
CTA Air treatment unit-double in heat pump with economizer mounted in the ceiling, with heat air intake, equipped with full automation and control modules, three speed fands, useful efficiency: 1550 / 1100 / 2000 m3/h, heating with full automation and control modules, three speed fands, useful efficiency: 1550 / 1100 / 2000 m3/h, heating capacity 6,7 / 10,8 / 18,7 kW, cooling capacity 5,7 / 10,2 / 17,1 kW, electric power: 5KW, supply 400V/50Hz
RPB Name tag plate

LEGEND

Steel pipe for heat carrier supply
Steel pipe for heat carrier return
Steel pipe
C2 Condensing wall-mounted diesel gas heating boiler, aluminium/otelne monotermi heat exchanger provided with programming control panel depending on outdoor temperature, equipped with consumo measuring device and expansion vessels with membrane and burner with premixing, nominal/maximum thermal power 18,8/107 kW at maximum temperature 80/60°C.
P1 Pump tripped hammer, flow rate: 3 m3/h, delivery 80 -1,5 mCA at medium
speed, pulere electric: 250 W, alternating current 1 phase
P2 Hot water heat carrier circulating pump SOW/TC for heating, direct with fan coils, flow rate: 4 m3/h, delivery 80 -3,4 mCA at medium speed, pulere electric: 250 W, alternating current 1 phase
P3 Hot water heat carrier circulating pump SOW/TC for heating, direct with radiators, flow rate: 1 m3/h, delivery 80 -1,5 mCA at medium speed, pulere electric: 250 W, alternating current 1 phase
P4 Hot water heat carrier circulating pump SOW/TC for boiler, flow rate: 3,0 m3/h, delivery 80 -1,5 mCA at medium speed, pulere electric: 250 W, alternating current 1 phase
VE Expansion vessel, 18 litri, 10 bar, 120°C
CF-HRI CF. Aluminium radiators with steel core (timetable), element type -height/no. of elements.
VCFB Perimeter fan coils
CF Power transformer installed
VR Vessel ventilation
VA Vessel air vent
CG Gas valve
SS Safety valve
SSG Gas pressure sensor
SSA Water PS pressure sensor
SPC Indoor calculation temperature
STE Outdoor temperature sensor
CC Collar for cold water properties 7-12 grd. C, with ecological freon R410A, cooling capacity: 300KW, electric power: 130KW, supply 400V/50Hz, provided with full hydraulic module and accessories
DC1 Dulap de climatizare, functionare la ceas 7-12 grd. C, with ecological freon R410A, compressor delivery, provided with 3-way modulating valve, grille, plenum space and accessories, cooling capacity: 45,5KW, electric power: 3KW, supply 400V/50Hz
DC2 Dulap de climatizare, cold water operation, frontal lower suction and frontal upper delivery, provided with 3-way modulating valve, grille, plenum space and accessories, cooling capacity: 45,5KW, electric power: 3KW, supply 400V/50Hz
A1 Aluminium circular diffuser, Dext = 440mm, Dconnection = 300mm
A2 Aluminium circular diffuser, Dext = 340mm, Dconnection = 200mm
GA1 Aluminium suction grill 300x200mm, including isolated plenum (square 200x200) with lateral connection D=150mm
GA2 Aluminium suction grill 300x300mm, including isolated plenum (square 300x300) with lateral connection D=250mm
CTA Air treatment unit-double in heat pump with economizer mounted in the ceiling, with heat air intake, equipped with full automation and control modules, three speed fands, useful efficiency: 1550 / 1100 / 2000 m3/h, heating capacity 6,7 / 10,8 / 18,7 kW, cooling capacity 5,7 / 10,2 / 17,1 kW, electric power: 5KW, supply 400V/50Hz
RPB Name tag plate

NOTA: In perioada de iarna, varele V1, V7 si V4 se vor inchide, si se vor deschide varele V2, V2' si V3
In perioada de vara, varele V2, V2' si V3 se vor inchide, si se vor deschide varele V1, V7 si V4

NOTE: During the winter time, V1, V7, V4 valves would be in close position, and V2, V2', V3 valves would be in open position.
During the summer time, V2, V2',V3 valves would be in close position, and V1, V7, V4 valves would be in open position.

Rev.	Date	Modification	Drawn	Checked	Approved
1		Modification			
2		Modification			
3		Modification			

CLIENT / CLIENT

CONSULTANT / CONSULTANT

Director	Ing. Cristian Ionescu		
Director	Ing. Ion Ionescu		
Director	Ing. Ion Ionescu		
Director	Ing. Ion