



**LEGENDA**

- Conducta din otel, agent termic tur.
- - - Conducta din otel, agent termic retur.
- CZ Cazan electric pentru incalzire, echipat cu regulator electronic in 7 trepte (15,30,45,60,75,90,105), pentru setarea temperaturii intre 30 si 80°C, puterea termica maxima 105 KW, alimentare trifazata.
- P Pompa circulatie agent termic apa calda 80/60°C, pentru instalatia de incalzire, debit : 4,0 mc/h, inaltime de pompare : 3,2 mCA la turatie medie, putere electrica : 300 W, alimentare monofazata.
- VEI Vas expansiune inchis cu membrana, 100 litri, 6 bar.
- CS Clapeta de sens.
- SS Supapa de siguranta.
- STE Sonda de temperatura exterioara.

**LEGEND**

- Steel pipe for heat carrier supply
- - - Steel pipe for heat carrier return
- CZ Electric heating boiler, 7 stage (15,30,45,60,75,90,105) electronic programmable for a temperature range between 30 and 80°C, maximum thermal output 105 KW, three-phased supply.
- P Hot water heat carrier circulation pump 80/60°C for heating installation, flow rate: 4,0 m<sup>3</sup>/h, delivery lift: 3,2 mCA at medium speed, electrical power: 300 W, single-phased supply.
- VEI Diaphragm expansion vessel, 100 l, 6 bars.
- CS Direction valve.
- SS Safety valve.
- STE Outdoor temperature sensor.

la si de la  
instalatia interioara de  
incalzire  
to and from installation  
of internal heating

D					
C					
B					
A					
Indice Index	Data Date	Modificare Modification/Revision	Proiectant Designer	Aprobat Consultant Approved Consultant	Aprobat CFR Approved CFR

**GUVERNUL ROMANIEI**  
 ROMANIAN GOVERNMENT
 
**PROIECT FINANȚAT DE UNIUNEA EUROPEANĂ**  
 EUROPEAN UNION FINANCED PROJECT

**C.N.C.F. "C.F.R." - S.A.**

**CLIENT / CLIENT**

GRUPPO FERROVIE DELLO STATO  
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Aprobat Approved	Șef proiect Project manager	R. Liuzza	Data Date	Semnătură Signature
Aprobat Approved	Coordonator Secțiune 1 Section 1 Coordinator	C. Gambelli	DEC. 2011	
Verificat Checked	Expert Verificator Checking Expert	G. Floravanti	DEC. 2011	

**SUBCONTRACTANT / SUBCONTRACTOR**

Aprobat Approved	Responsabil Subcontractant Subcontractant Responsible	A.Stanciu - Dinulescu	Data Date	Semnătură Signature
Intocmit Elaborated	Proiectant Designer	Valentin Radu	DEC. 2011	

Reabilitarea liniei de cale ferata Braşov - Simeria, parte componentă a coridorului IV Pan European, pentru circulația trenurilor cu viteza maximă de 160 km/h,  
**Tronsonul : Braşov - Sighișoara**  
 Rehabilitation of the railway line Braşov - Simeria, component Part of the IV Pan-European Corridor, for the trains circulation with maximum speed of 160 km/h,  
**Section : Braşov - Sighișoara**

**Proiect/Project**  
 2004/RO/16/P/PA/003  
**Faza / Phase:**  
 D.E. / E.D.

**Denumire desen / Drawing Title :**

**Schema termomecanica centrala termica - Stația Apata**  
**Apata Station - Thermomechanical schedule of central heating station**

Codificare / Codification System	Scara / Scale	LOT / LOT	Nr. / No
E A 5 1 0 1 E 0 9 B X I V 0 0 4 1 0 4 6 0			01 / 01