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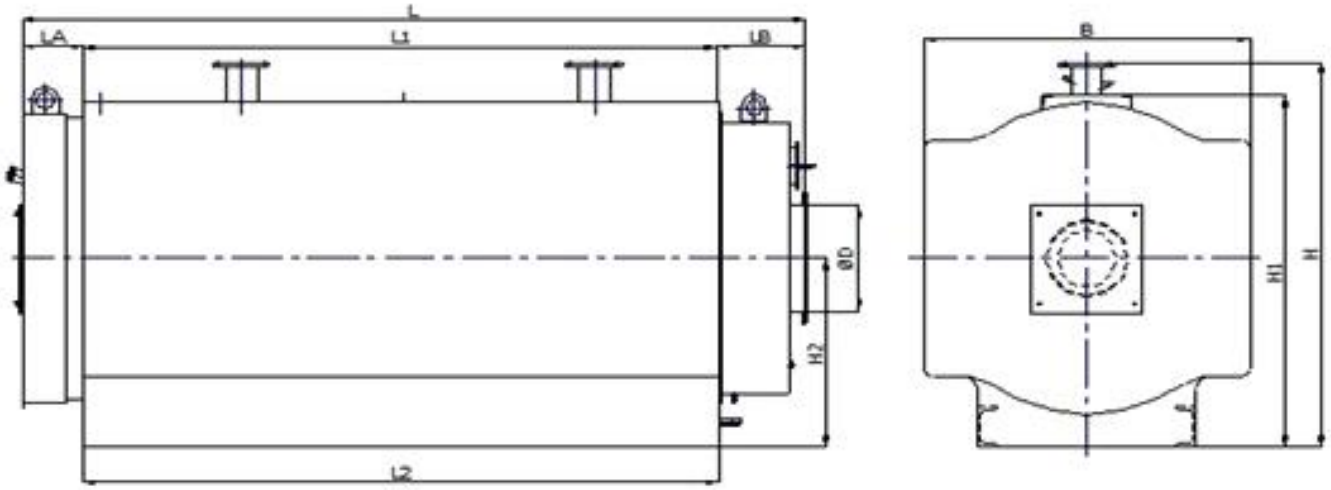
NAR

AVANTAJELE MODEL NAR :

- **Usurinta in instalare si manipulare,**
- **Reducerea timpului de instalare,**
- **Livrare rapida prin reducerea numarului de piese livrate,**
- **Usurinta in transportul echipamentelor in locatiile de montaj,**
- **Reducerea spatiului de depozitare,**
- **Intretinerea facila a stratului izolator,**
- **Intretinerea usoara a echipamentului si asigurarea facila a activitatilor de service si mentenanta.**

FISA TEHNICA CAZANE CE FUNCTIONEAZA CU COMBUSTIBIL GAZOS SI LICHID tip NAR

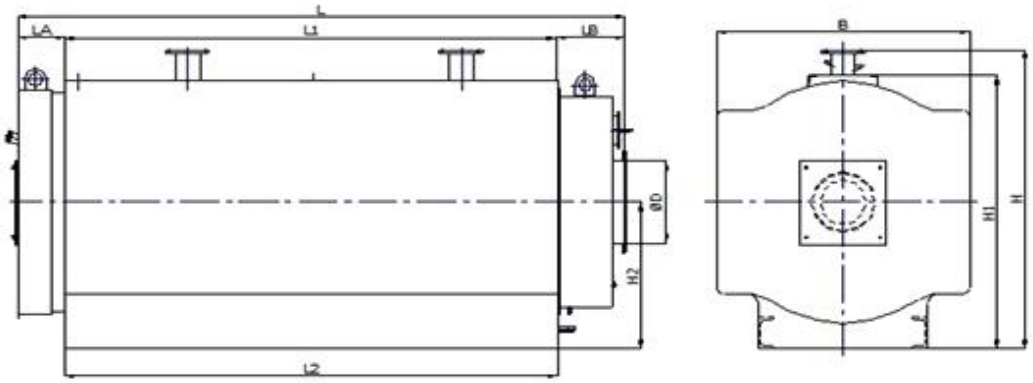
SCHEMA TEHNICA DE ANSAMBLU A CAZANELOR



CARACTERISTICILE TEHNICE ALE CAZANELOR NAR 60 – NAR 200

CARACTERISTICILE TEHNICE ALE CAZANELOR NAR							
TIP CAZAN	**NAR**	**60**	**80**	**100**	**130**	**160**	**200**
Putere termica utila	**kcal/h**	60.000	80.000	100.000	130.000	160.000	200.000
Putere termica utila	**kW**	70	93	116	151	186	233
Presiunea maxima de functionare	**bar**	4-6-8	4-6-8	4-6-8	4-6-8	4-6-8	4-6-8
Randament	**%**	92.9	92.3	92.3	92.5	92.2	92.2
Temperatura de functionare (tur/retur)	**°C**	90/70	90/70	90/70	90/70	90/70	90/70
Temperatura maxima de functionare	**°C**	100	100	100	100	100	100
Temperatura minima retur	**°C**	55	55	55	55	55	55
Temperatura minima de pornire la rece	**°C**	10	10	10	10	10	10
Temperatura gazelor de ardere la iesirea din cazan	**°C**	167	168	175	178	179	178
Masa	**kg**	298	302	379	420	486	521
L	**mm**	1.070	1.070	1.305	1.370	1.385	1.385
L1	**mm**	740	740	975	985	990	990
L2	**mm**	740	740	975	985	990	990
LA	**mm**	130	130	130	170	170	170
LB	**mm**	200	200	200	215	225	225
B	**mm**	755	755	785	810	890	890
H	**DN**	920	920	920	940	1.033	1.060
H1	**mm**	840	840	850	865	955	980

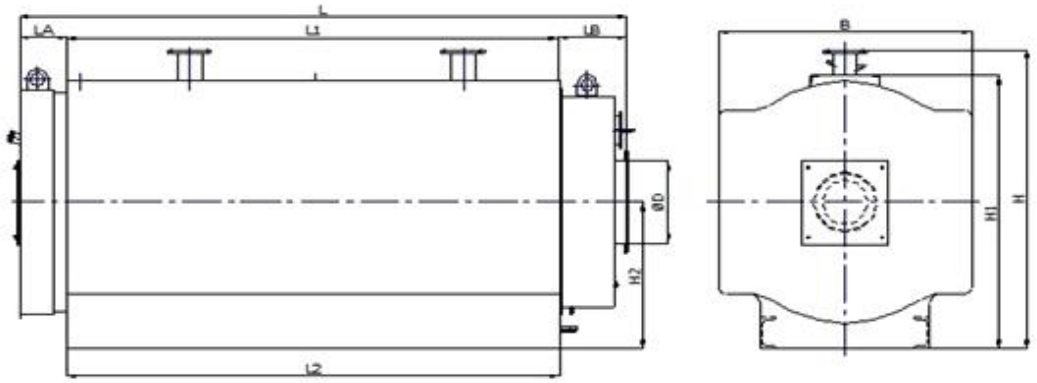
H2	**mm**	465	465	458	460	510	535
ϕD	**mm**	150	150	200	200	200	250
Racord tur	**DN**	50	50	50	50	65	65
Racord retur	**DN**	50	50	50	50	65	65
Volum de apa	**litri**	122	120	175	179	234	233
Contraresiunea	**mbar**	0.2	0.6	1	1.1	1.2	1.6



CARACTERISTICILE TEHNICE ALE CAZANELOR NAR 250 – NAR 800

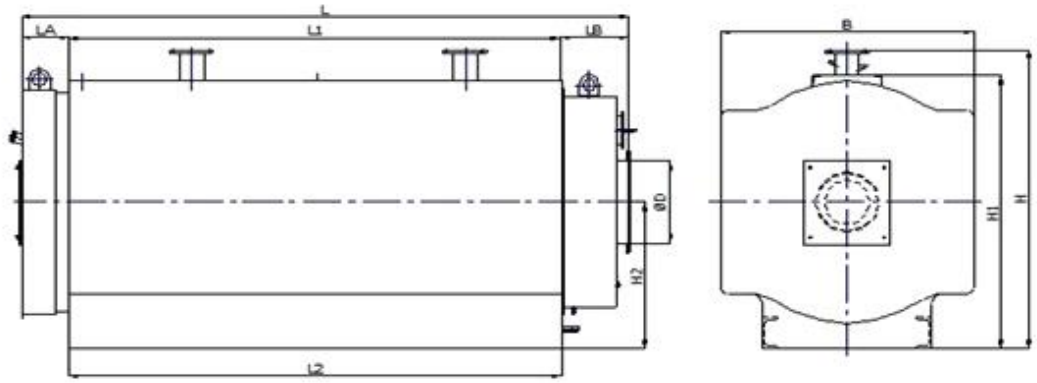
CARACTERISTICILE TEHNICE ALE CAZANELOR NAR							
TIP CAZAN	**NAR**	**250**	**320**	**400**	**500**	**640**	**800**
Putere termica utila	**kcal/h**	250.000	320.000	400.000	500.000	640.000	800.000
Putere termica utila	**kW**	291	372	465	581	744	930
Presiunea maxima de functionare	**bar**	4-6-8	4-6-8	4-6-8	4-6-8	4-6-8	4-6-8
Randament	**%**	92.3	92.6	92.5	92.2	92.4	92.4
Temperatura de functionare (tur/retur)	**°C**	90/70	90/70	90/70	90/70	90/70	90/70
Temperatura maxima de functionare	**°C**	100	100	100	100	100	100
Temperatura minima retur	**°C**	55	55	55	55	55	55
Temperatura minima de pornire la rece	**°C**	10	10	10	10	10	10
Temperatura gazelor de ardere la iesirea din cazan	**°C**	179	182	180	179	178	179
Masa	**kg**	604	783	1.003	1.107	1.533	1.980
L	**mm**	1.665	1.810	2.036	2.247	2.497	2.910
L1	**mm**	1.240	1.385	1.579	1.792	1.987	2.400
L2	**mm**	1.240	1.385	1.579	1.792	1.987	2.400
LA	**mm**	185	185	185	185	190	190
LB	**mm**	240	240	272	270	320	320
B	**mm**	920	860	1.020	1.020	1.220	1.240
H	**DN**	1.080	1.115	1.190	1.190	1.365	1.440
H1	**mm**	1.000	1.035	1.110	1.110	1.285	1.360
H2	**mm**	540	555	600	600	675	740
ϕD	**mm**	250	300	300	350	350	400
Racord tur	**DN**	65	65	80	80	100	100

Racord retur	**DN**	65	65	80	80	100	100
Volum de apa	**litri**	282	305	381	447	841	942
Contraresiunea	**mbar**	1.8	2	2.5	3.2	4.4	5.4



CARACTERISTICILE TEHNICE ALE CAZANELOR NAR 1000 – NAR 2500

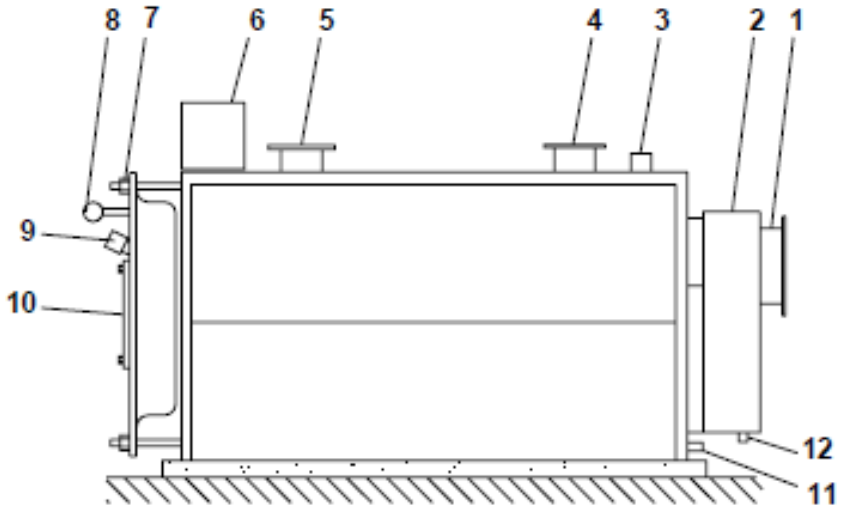
CARACTERISTICILE TEHNICE ALE CAZANELOR NAR						
Tip Cazan	**NAR**	**1.000**	**1.250**	**1.600**	**2.000**	**2.500**
Putere termica utila	**kcal/h**	1.000.000	1.250.000	1.600.000	2.000.000	2.500.000
Putere termica utila	**kW**	1.163	1.453	1.860	2.326	2.907
Presiunea maxima de functionare	**bar**	4-6-8	4-6-8	4-6-8	4-6-8	4-6-8
Randament	**%**	92.3	92.3	92.3	92.1	92.1
Temperatura de functionare (tur/retur)	**°C**	90/70	90/70	90/70	90/70	90/70
Temperatura maxima de functionare	**°C**	100	100	100	100	100
Temperatura minima retur	**°C**	55	55	55	55	55
Temperatura minima de pornire la rece	**°C**	10	10	10	10	10
Temperatura gazelor de ardere la iesirea din cazan	**°C**	185	187	187	188	188
Masa	**kg**	2.498	2.924	3.863	4.237	5.167
L	**mm**	2.951	3.206	3.532	3.552	3.922
L1	**mm**	2.400	2.655	2.940	2.950	3.295
L2	**mm**	2.400	2.655	2.940	2.950	3.295
LA	**mm**	225	225	246	246	251
LB	**mm**	326	326	346	356	376
B	**mm**	1.400	1.455	1.620	1.715	1.850
H	**DN**	1.550	1.605	1.770	1.875	2.000
H1	**mm**	1.492	1.547	1.712	1.817	1.942
H2	**mm**	770	797	880	938	995
ϕD	**mm**	450	500	550	600	650
Racord tur	**DN**	125	125	150	150	200
Racord retur	**DN**	125	125	150	150	200
Volum de apa	**litri**	1.361	1.572	2.403	2.828	3.221
Contraresiunea	**mbar**	6.2	6.7	7	9	12



Presiunea maxima de functionare a cazanelor NAR este de 8 bari, in functie de necesitatile de instalare a echipamentelor. In acest caz masa cazanelor va fi diferita fata cea a cazanelor avand o presiune standard de functionare de 4 bari, asa cum este prezentat mai jos:

MASA CAZANELOR NAR IN FUNCTIE DE PRESIUNEA DE FUNCTIONARE			
TIP CAZAN NAR	**MASA (kg)**		
PRESIUNE DE FUNCTIONARE	**4 bar**	**6 bar**	**8 bar**
NAR 60	315	333	345
NAR 80	319	337	350
NAR 100	389	410	425
NAR 130	421	442	453
NAR 160	493	531	570
NAR 200	521	548	581
NAR 250	604	636	708
NAR 320	804	824	852
NAR 400	1.040	1.075	1.120
NAR 500	1.135	1.163	1.210
NAR 640	1.592	1.661	1.784
NAR 800	1.980	2.061	2.249
NAR 1000	2.960	3.235	3.363
NAR 1250	2.798	3.056	3.328
NAR 1600	3.850	3.960	4.536
NAR 2000	4.394	4.705	5.096
NAR 2500	5.372	5.986	6.625

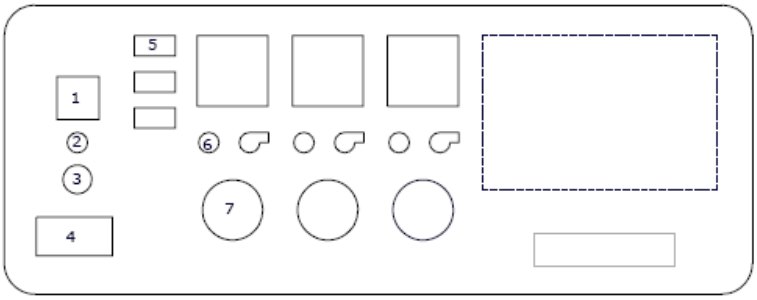
DESCRIEREA ELEMENTELOR CAZANULUI NAR



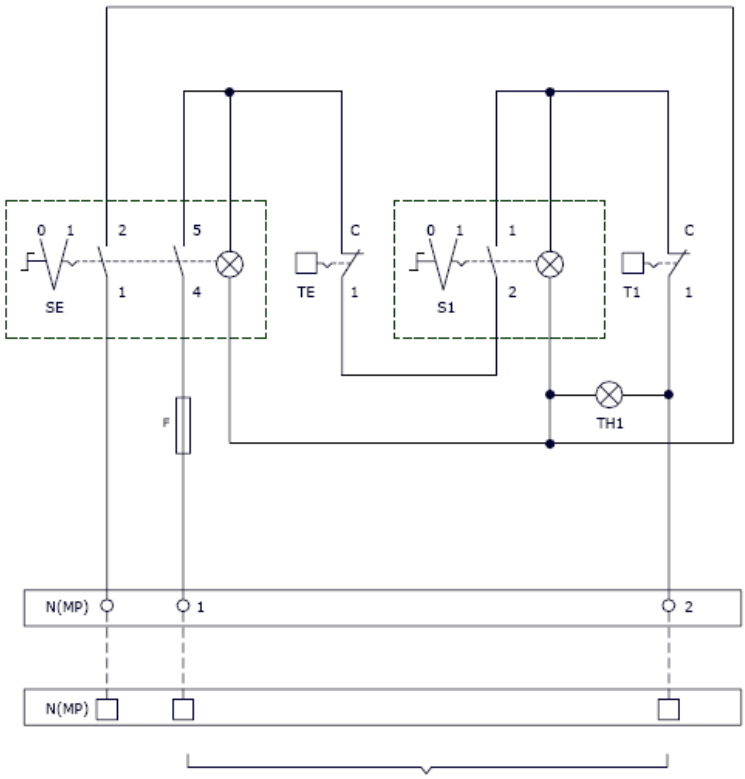
1. Racord cos de fum gaze arse
2. Camera colectoare gaze arse
3. Racord conectare vas de expansiune Vizor
4. Racord RETUR agent termic
5. Racord TUR agent termic
6. Tablou de comanda (KP-1 sau KP-2)
7. Articulatie manevrare usa frontal cazan
8. Maner usa frontal cazan
9. Vizor
10. Flansa record arzator
11. Racord umplere / golire cazan
12. Racord scurgere condens

TABLOU DE COMANDA KP-1

1. Intrerupator manual pentru pornire – oprire
2. Siguranta fuzibila (6A)
3. Termostat de siguranţă (cu resetare manuala)
4. Termometru apa cazan
5. Intrerupator arzator pentru pornire – oprire (treapta 1)
6. Semnal luminos functionare termostat
7. Termostat reglabil (treapta 1)

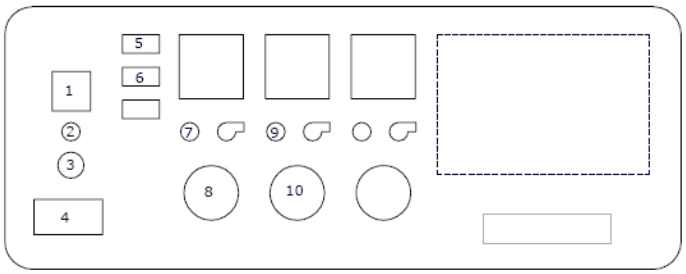


SCHEMA ELECTRICA TABLOU DE COMANDA KP-1

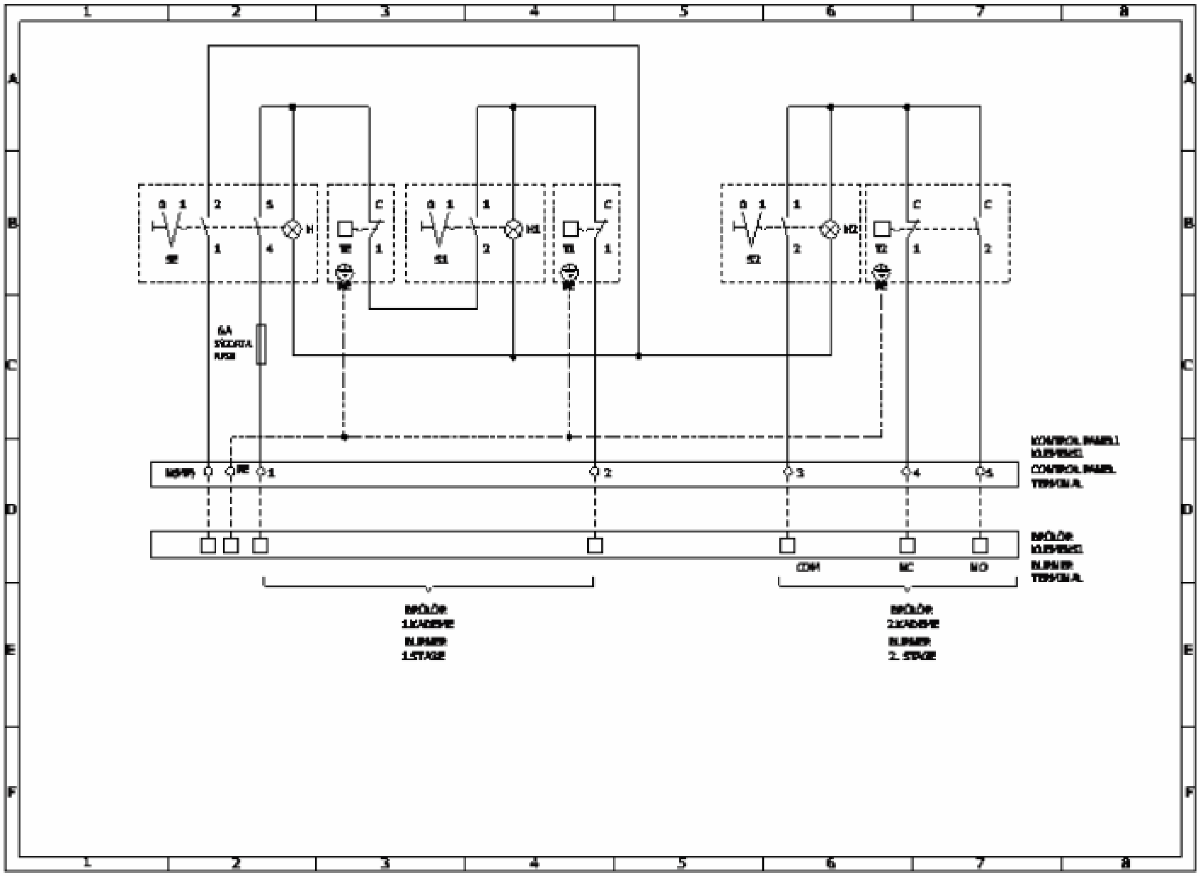


TABLOU DE COMANDA KP-2

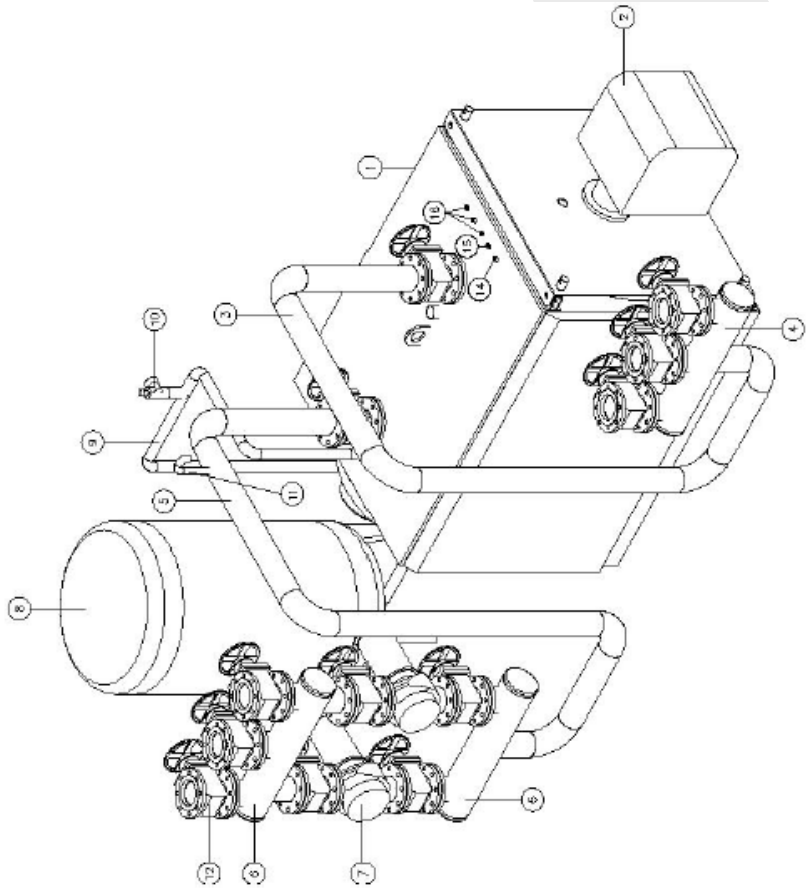
1. Intrerupator manual pentru pornire – oprire
2. Siguranta fuzibila (6A)
3. Termostat de siguranţă (cu resetare manuala)
4. Termometru apa cazan
5. Intrerupator arzator pentru pornire – oprire (treapta 1)
6. Intrerupator arzator pentru pornire – oprire (treapta 2)
7. Semnal luminos functionare termostat (treapta 1)
8. Termostat reglabil (treapta 1)
9. Semnal luminos functionare termostat (treapta 2)
10. Termostat reglabil (treapta 2)



SCHEMA ELECTRICA TABLOU DE COMANDA KP-2


S1
H1
6A
COM
NC
NO

MODEL SCHEMA DE INSTALARE – VEDERE FRONTALA



1. Cazan apa calda
2. Arzator
3. TUR agent termic
4. Distribuitor
5. RETUR agent termic
6. Colector
7. Pompa circulatie
8. Vas de expansiune
9. RETUR conducta de siguranta
10. Supapa de siguranta
11. Conducta aerisire
12. Vana tur
13. Robinet umplere / golire cazan
14. Record manometru
15. Racord termometru
16. Record thermostat

MODEL SCHEMA DE INSTALARE – VEDERE DIN SPATE