

S T O R A G E H E A T E R S

INPROEL *Aura*

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Inproel was founded in 1989. Initially, the company operated mainly as an engineering solutions provider for industrial power supply, electric heating, and hot water services.

We started manufacturing electric heaters in 1999, to become Poland's largest manufacturer of dynamic storage heaters today. Our state-of-the-art technology and outstanding production methods have been widely appreciated in the market.

Inproel have supplied a range of renown retailers and end-users, to mention Warsaw Castorama, Piaseczno Leroy Merlin, Energia-Pro Power Co. of Wrocław, Płock Power Co., Toruń Power Co., and Polish Mail.

We have bid in many dynamic storage heater supply tenders in course of recent years, winning most of the contracts with our competitive product.

Inproel quality is confirmed by 3-year guarantee on all products. We have been awarded international fair prizes.

Inproel heating solutions are environmentally friendly. Materials and production processes meet strict environmental protection requirements imposed by the EU.

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Storage heating

The principle of storage heating: storage heater comes on automatically during the off-peak hours (typically at night) and charges itself full of heat. Heaters are designed to run on off-peak electricity tariffs.

Inproel dynamic storage heaters are state-of-the-art energy-saving appliances, operating on economical energy.



Main advantages of Inproel heaters are:

- competitive price,
- low installation cost
- fuel storage not needed
- low energy consumption
- off-peak tariff operation
- easy operation
- constant room temperature
- modern design
- no maintenance cost, no material storage

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DGA Standard storage heater

Features:

- Thermomechanical charging controller
 - Dynamic discharge (fan-assisted)
 - Multi-coat thermal insulation jacket of MICROTHERM, VERMICULITE, and SUPER-ISOL
 - No dust emission
 - Magnesite stone core
 - Heat resistant steel heating coils
 - Supply voltage 230-400V. Only 230V for DGA12 and DGA16
 - Light colour casing
 - White shades painted RAL9001
 - Air outlet grille of olive painted aluminium alloy
 - Front air outlet
 - Temperature safety switches for each phase
 - Stepless switch temperature regulator for manual charging mode adjustments
 - Automatic (weather) control override option
- Heater discharge via wall-mounted room temperature adjustment unit
 - Power port on the side of the casing
 - Available output range 1.2 through 4 kW
 - Suit various rooms, regardless of function and size



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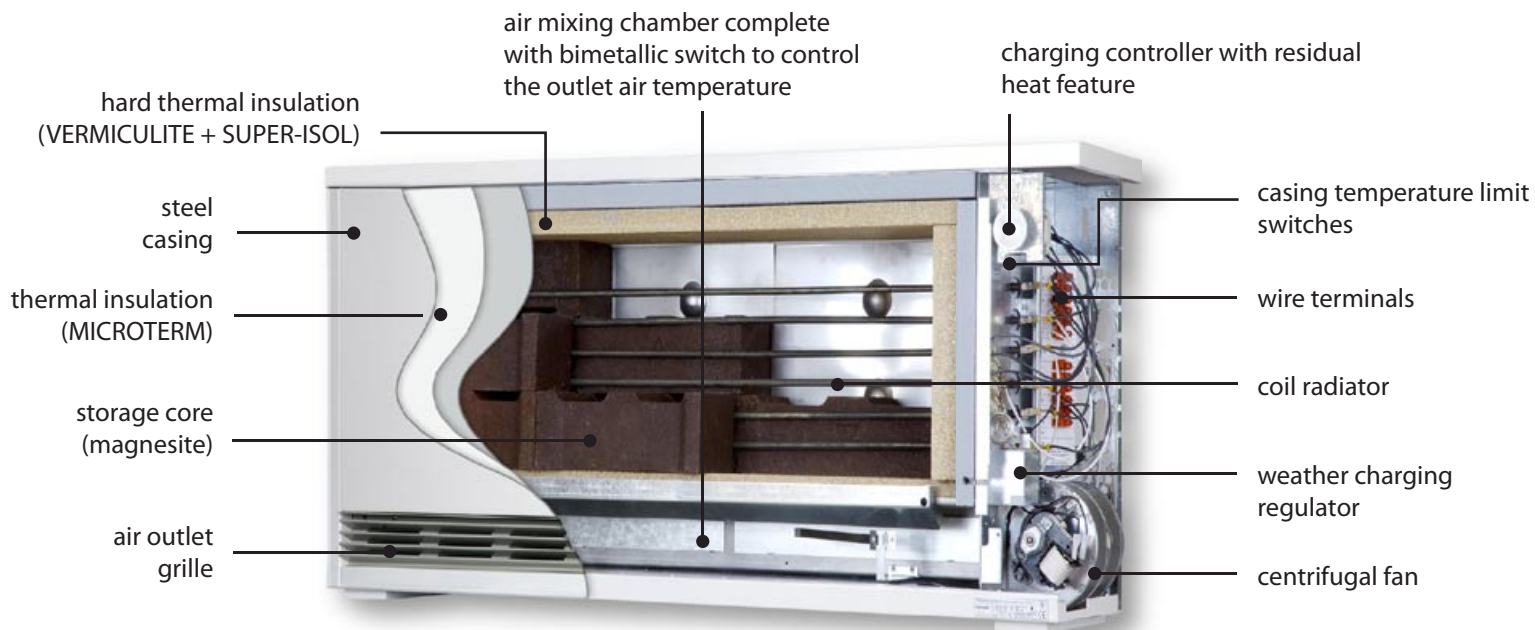
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DGA heater structure

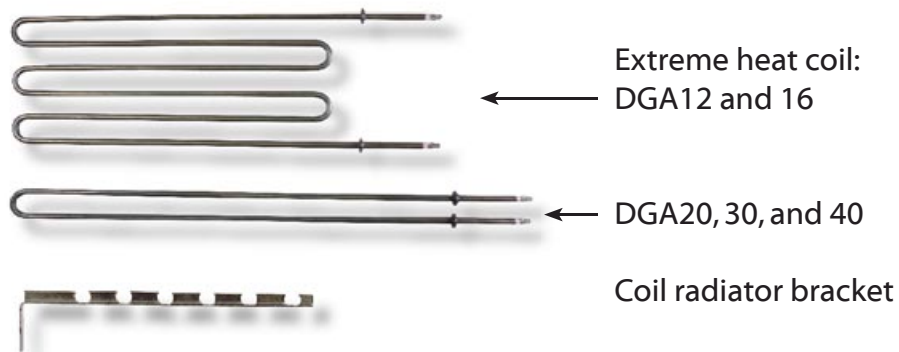


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Magnesite heater core



GGA set



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DGA storage heaters

Ref.	Type	Output [kW]	Heating unit power supply	Dimensions (H/W/T)	Weight [kg]	Equipment (coils, core)
1.	DGA 12	1.2	1/N/PE~230V	$\frac{490}{605}$ 250	62	GGA1212 KMD x 1 x 6
2.	DGA 16	1.6	1/N/PE~230V	$\frac{490}{795}$ 250	90	GGA1616 KMK x 1 x 12
3.	DGA 20	2.0	3/N/PE~400V 1/N/PE~230V	$\frac{490}{925}$ 250	115	GGA2020 KMD x 1 x 12
4.	DGA 30	3.0	3/N/PE~400V 1/N/PE~230V	$\frac{490}{1115}$ 250	138	GGA3030 KMD KMK x 1 x 6 x 12
5.	DGA 40	4.0	3/N/PE~400V 1/N/PE~230V	$\frac{490}{1245}$ 250	159	GGA4040 KMD x 1 x 18

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DGP Slim storage heaters

DGP Slim storage heaters are Inproel's new product, developed with the application of many years' expertise and state-of-the-art technologies. DGP Slim is only 16 cm thick! Key to the slimming has been new design of the magnesite storage unit. The appliance features many of the proven qualities, including manual or automatic weather control, core residual heat related electronic control, hard multi-coat thermal insulation jacket composed of microtherm, vermuclite, and super-isol layers), and low-noise thermostatic air outlet and emission system to ensure outstanding comfort.

DGP Slim heaters offer heating output capacities ranging from 1.2 to 3.6 kW. The slim shape along with wall mounting option make them a second to none solution for rooms of various heights and function.



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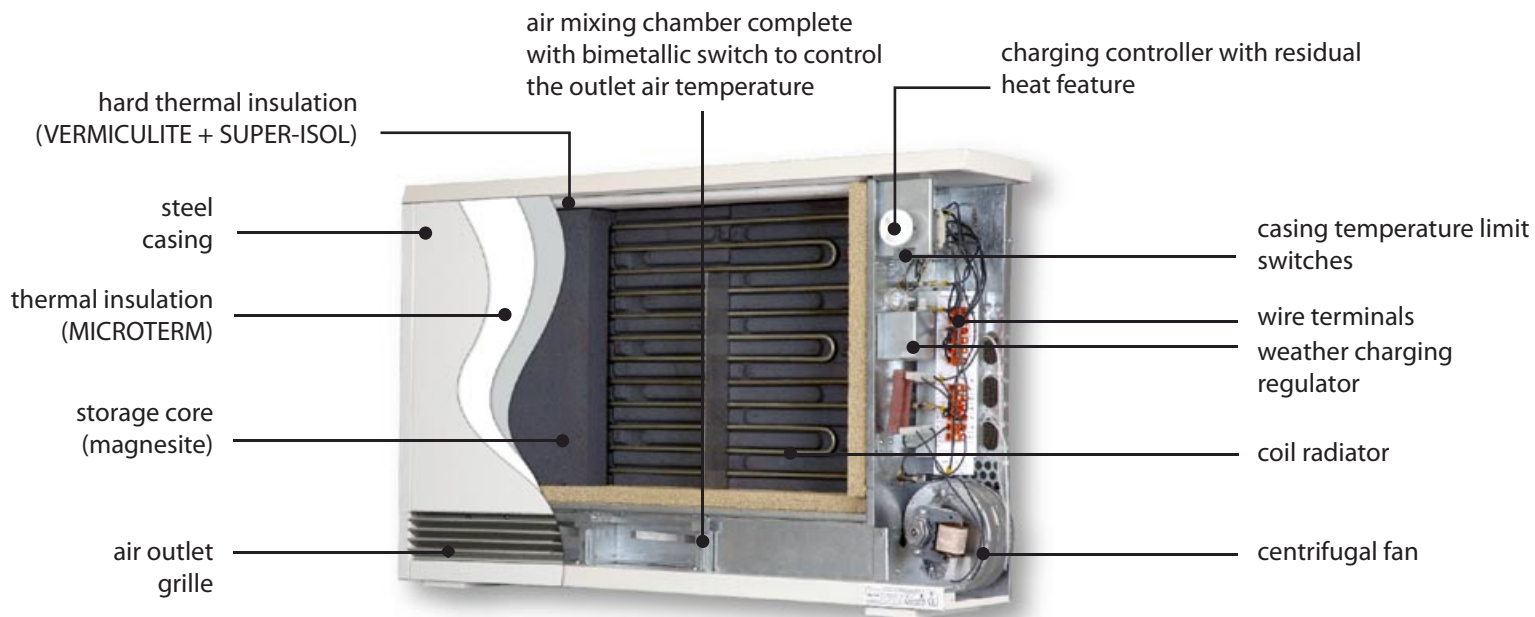
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DGP heater structure



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Magnesite heater core



KFP set

GGP set



Extreme heat coil:



Coil radiator bracket



UGP wall mounting brackets

NGP mask (support)

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DGP storage heaters

Ref.	Type	Output [kW]	Heating unit power supply	Dimensions (H/W/T)	Weight [kg]	Equipment (coils, core)	Wall mounted version
1.	DGP 12	1.2	3/N/PE~400V or 1/N/PE~230V	$\frac{540}{682}$ 165	64	GGP1212 x 1 KFP set x 6	see: >
2.	DGP 18	1.8	3/N/PE~400V or 1/N/PE~230V	$\frac{540}{867}$ 165	92	GGP1212 x 1 KFP set x 6	see: >
3.	DGP 24	2.4	3/N/PE~400V or 1/N/PE~230V	$\frac{540}{1138}$ 165	120	GGP2424 x 1 KFP set x 6	see: >
4.	DGP 30	3.0	3/N/PE~400V or 1/N/PE~230V	$\frac{540}{1324}$ 165	147	GGP3030 x 1 KFP set x 6	see: >
5.	DGP 36	3.6	3/N/PE~400V or 1/N/PE~230V	$\frac{540}{1510}$ 165	166	GGP3636 x 1 KFP set x 6	see: >

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DGP storage heaters

Wall mounted version specifications continued

Ref.	Type	Extra wall brackets
1	DGP 12	UGP x 2
2	DGP 18	UGP x 2
3	DGP 24	UGP x 3
4	DGP 30	UGP x 3
5	DGP 36	UGP x 3



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DGS storage heaters

DGS STORAGE HEATER has been developed by Inproel to satisfy the ever growing market demand and meet the increasingly strict environmental standards and safety regulations. DGS has been designed jointly by Inproel and renown domestic and international heating engineering companies. The environmentally friendly and economical appliance combines outstanding design and top technology, including manual or automatic charging weather control, core residual heat related electronic control, hard multi-coat thermal insulation jacket composed of microtherm, vermuclite, and super-isol layers), and low-noise thermostatic air outlet and emission system to ensure outstanding comfort.

Up to 40% of energy cost savings can be achieved by use of DGS storage heaters. The appliance activate automatically during the off-peak hours and charges itself full of heat.

Heaters are designed to run on off-peak electricity tariffs.

DGS heaters output range from 1.6 to 7 kW, making them the best option for all types of rooms.



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DGS storage heaters

Ref.	Type	Output [kW]	Heating unit power supply	Dimensions (H/W/T)	Weight [kg]	Equipment (coils, core)	Magnetite elements [pcs]	
							KMK	KMD
1.	DGS 16	1.6	3/N/PE ~400V or: 1/N/PE ~230V	$\frac{674}{566}$ 250	86	GG51612 GG51616 GG51621	10	
2.	DGS 20	2.0		$\frac{674}{631}$ 250	97	GG52016 GG52020 GG52027		10
3.	DGS 30	3.0		$\frac{674}{822}$ 250	142	GG53024 GG53030 GG53040	20	
4.	DGS40	4.0		$\frac{674}{952}$ 250	173	GG54032 GG54040 GG54052		20
5.	DGS50	5.0		$\frac{674}{1143}$ 250	219	GG55040 GG55050 GG55064	20	10
6.	DGS60	6.0		$\frac{674}{1273}$ 250	251	GG56048 GG56060 GG56076		30
7.	DGS70	7.0		$\frac{674}{1464}$ 250	297	GG57056 GG57070 GG57090	20	20

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DGN storage heaters

DGN storage heater is an upgraded version of the renown DGA unit. The casing has been streamlined, and some of the specifications have been improved, along with simplified assembling procedure. DGN features thermomechanical charging controller, fan-assisted dynamic discharge, multi-coat thermal insulation jacket of MICROTHERM, VERMICULITE, and SUPER-ISOL, no dust emission, magnesite stone core, heat resistant steel heating coils, supply voltage 230-400V. Only 230V for DGA12 and DGA16, light colour casing, white shades painted RAL9001, air outlet grille of olive painted aluminium alloy, front air outlet, temperature safety switches for each phase, stepless switch temperature regulator for manual charging mode adjustments,

automatic (weather) control override option, heater discharge via wall-mounted room temperature adjustment unit, power port on the side of the casing, available output range 1.2 through 4 kW, suit all types of rooms, regardless of function and size.



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DGN storage heaters

Ref.	Type	Output [kW]	Heating unit power supply	Dimensions (H/W/T)	Weight [kg]	Equipment (coils, core)
1.	DGN 12	1.2	1/N/PE~230V	$\frac{499}{631}$ 250	62	GGA1212 KMD x 1 x 6
2.	DGN 16	1.6	1/N/PE~230V	$\frac{499}{822}$ 250	90	GGA1616 KMK x 1 x 12
3.	DGN 20	2.0	3/N/PE~400V 1/N/PE~230V	$\frac{499}{962}$ 250	115	GGA2020 KMD x 1 x 12
4.	DGN 30	3.0	3/N/PE~400V 1/N/PE~230V	$\frac{499}{1143}$ 250	138	GGA3030 KMD KMK x 1 x 6 x 12
5.	DGN 40	4.0	3/N/PE~400V 1/N/PE~230V	$\frac{499}{1273}$ 250	159	GGA4040 KMD x 1 x 18

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DGW storage heaters

DGW 'high' type has been developed to meet growing aesthetic value demand of the customers, and to please the strict environmental protection regulations. By enlarging the box, we were able to extend the power capacity range up to 7 kW. The design is similar to that of DGW 'low' for easy combination of the models subject to technical and space requirements. The new DGW features thermomechanical charging controller, fan-assisted dynamic discharge, multi-coat thermal insulation jacket of MICROTHERM, VERMICULITE, and SUPER-ISOL, no dust emission, magnesite stone core, heat resistant steel heating coils, supply voltage 230-400V, light colour casing, white shades painted RAL9001, air outlet grille of olive painted aluminium alloy, front air outlet, temperature safety switches for each phase, stepless switch temperature regulator for manual charging mode adjustments, automatic (weather) control override option,

heater discharge via wall-mounted room temperature adjustment unit, power port on the side of the casing, available output range 1.6 through 7 kW, suit all types of rooms, regardless of function and size.



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DGW storage heaters

Ref.	Type	Output [kW]	Heating unit power supply	Dimensions (H/W/T)	Weight [kg]	Equipment (coils, core)	Magnetite elements [pcs]	
							KMK	KMD
1.	DGW16	1.6	3/N/PE ~400V or: 1/N/PE ~230V	$\frac{662}{542}$ 250	86	GG51612 GG51616 GG51621	10	
2.	DGW20	2.0		$\frac{662}{607}$ 250	97	GG52016 GG52020 GG52027		10
3.	DGW30	3.0		$\frac{662}{796}$ 250	142	GG53024 GG53030 GG53040	20	
4.	DGW40	4.0		$\frac{662}{928}$ 250	173	GG54032 GG54040 GG54052		20
5.	DGW50	5.0		$\frac{662}{1119}$ 250	219	GG55040 GG55050 GG55064	20	10
6.	DGW60	6.0		$\frac{662}{1249}$ 250	251	GG56048 GG56060 GG56076		30
7.	DGW70	7.0		$\frac{662}{1440}$ 250	297	GG57056 GG57070 GG57090	20	20

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Controls

Automatic charge control

Ref.	Type	Description
1.	PSC 20	Automatic charge control by outdoor weather sensor. Output up to 300 W. Up to 18 heaters. Switchboard bus assembly. Maximum length of sensor to controller cord: 30 m
2.	PSP 20	Cluster (interfacing) unit as PSC 20 accessory. Switchboard bus assembling. Customizes settings -30% ÷ +10%
3.	RZA 20	Accessory controller. Upgrade required if operating with PSC 20. Assembling in heater casing.



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Controls

Room temperature controllers



Ref.	Type	Description
1.	RTS 005	Analogue room temperature controller. LED signalled ON/OFF, knob switch
2.	RTS 007	Analogue room temperature controller. LED signalled ON/OFF, knob switch, extra controller switch
3.	RTS 012	Analogue room temperature controller. Knob switch. Temperature drop switch for clock controlled operation or manual reduction. LED signalled temperature drop.
4.	RTP 002	Digital room temperature controller. Any programme can be set in weekly cycle. <i>Controller types may vary subject to constant development.</i>

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- > Controls Automatic charge control

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Air curtains

Air curtains are installed to produce an invisible aerodynamic barriers to separate the interior from the outdoor air influence. The curtains have become common particularly at the places where doors are opened often. Air curtains are all-season appliances, preventing cold air ingress during the wintertime and keeping the conditioned air inside in summer. Additionally, air curtains prevent exhaust gases, insects, dust, and contaminants from penetrating the rooms. Air curtains come in a variety of types, which make them applicable in manufacturing industry facilities, retail stores, etc.

The units can be either wall- or ceiling mounted, including vertical orientation. Fan capacities and heater element output parameters can vary. Sheet metal casing is painted RAL 9001. The user can extend air curtain control systems, e.g. to make it fully automatic.

> [Air curtain specifications](#)



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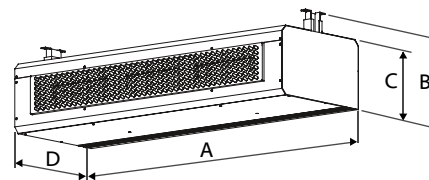
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Air curtains



> Air curtain

Ref.	Type	Dimensions [mm]				Air flow rate [m ³ /h]	Heating element power rating [kW]	Power input rating [kW]	Weight total [kg]	Assembling height [cm]	Control	Heating unit power supply
		A	B min max	C	D							
1.	KP60/P	600	236 336	182	308	930	6	6.22	15	350	-	3/N/PE ~400V
2.	KP90/P	900	236 336	182	308	930	6	6.22	17,5	350		
3.	KP150/P	1500	236 336	182	308	1850	12	12.44	29	350		
4.	KP120/1	1200	190 265	147	266	850	6	6.23	18	230		
5.	KP-60	1200	231 331	190	218	850	6	6.23	18	230		
6.	KP90/1	900	190 265	147	266	650	2/4	4.17	14,7	230	Manual, on the curtain	1/N/PE ~230V
7.	KP-40	900	231 331	190	218	650	2/4	4.17	14,5	230		

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Dedicated heating solutions

Explosion proof specialty electric heater in fire- and dust retardant casing has been designed to operate in areas where danger of explosion occurs of gas or fumes mixture with air, of flash points above 200°C. The unit cannot be used in mines where methane is emitted. The appliance meets the requirements of PN=92/E-08106 Standard for anti-dust protection (level 6) and water splash protection (level 4), as well as the provisions of PN-83/E-08116 and PN-EN 50014+AC Standards concerning explosion-proof electrical appliances. The heater

can be mounted horizontally to the floor, wall, or ceiling.



Output [W]	Supply voltage	Max. temperature increment [°C]	Casing	Protection (insulation)	Protection level	Dimensions L x diameter [mm]	Weight [kg]
1100	1/N/PE~230V, 50 Hz	85	Exd IIc T3	1	IP 64	1760x78/105/140	18

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Engineer's folder

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- > Inproel Aura heaters' effective outputs subject to electricity tariff availability
- > Directory of dynamic discharge storage heater components
- > Schemes:
 - > general scheme of storage heater supply and control circuits
 - > electric scheme: DGA 12, DGA 16 and DGN 12, DGN 16 storage heaters
 - > electric scheme: DGA/DGN 20 – DGA/DGN 40, DGW/DGS 16 – DGW/DGS 70, DGP 12 – DGP 36
 - > RTS room temperature regulator circuit scheme
 - > power supply scheme
 - > electric scheme: single storage heater
 - > electric scheme: more than one storage heater
 - > heating system scheme: 1:50

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Simulation of dynamic heater selection

SELECTION OF A DYNAMIC STORAGE HEATER FOR MODERN THERMALLY ECONOMICAL BUILDING

Electricity tariff: G12 (2-zone) 8h + 2h, 2.8 metre high rooms.

Heat required: 70/80 W/m², 160 W of the heater output per 1 m²

Ref.	AREA	DGA	OUTPUT Kw	DGW	OUTPUT kW	DGP	OUTPUT kW
1	up to 10 m ²	DGA/DGN 16	1.6	DGW/DGS 16	1.6	DGP 18	1.8
2	up to 14 m ²	DGA/DGN 20	2.0	DGW/DGS 20	2.0	DGP 24	2.4
3	up to 18 m ²	DGA/DGN 30	3.0	DGW/DGS 30	3.0	DGP 36	3.6
4	up to 23 m ²	DGA/DGN 40	4.0	DGW/DGS 40	4.0	DGP 18 x 2	3.6
5	up to 27 m ²	DGA/DGN 20 x 2	4.0	DGW/DGS 50	5.0	DGP 24 x 2	4.8
6	up to 34 m ²	DGA/DGN 30 x 2	6.0	DGW/DGS 60	6.0	DGP 30 x 2	6.0
7	over 34 m ²	Multiplied DGA		DGW-DGS 70	7.0	DGP 36 x 2	7.2

SELECTION OF A DYNAMIC STORAGE HEATER FOR A POORLY INSULATED BUILDING

Electricity tariff: G12 (2-zone) 8h + 2h, 2.8 metre high rooms.

Heat required: 100 W/m², 200 W of the heater output per 1 m²

Ref.	AREA	DGA	OUTPUT Kw	DGW	OUTPUT kW	DGP	OUTPUT kW
1	up to 10 m ²	DGA/DGN 16	2.0	DGW/DGS 20	2.0	DGP 24	2.4
2	up to 15 m ²	DGA/DGN 30	3.0	DGW/DGS 30	3.0	DGP 36	3.6
3	up to 20 m ²	DGA/DGN 40	4.0	DGW/DGS 40	4.0	DGP 24 x 2	4.8
4	up to 25 m ²	DGA/DGN 20 x 2	4.0	DGW/DGS 50	5.0	DGP 30 x 2	6.0
5	up to 30 m ²	DGA/DGN 30 x 2	6.0	DGW/DGS 60	6.0	DGP 36 x 2	7.2
6	over 30 m ²	Multiplied DGA		DGW-DGS 70	7.0	Multiplied DGP	

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Inproel Aura heaters' effective outputs subject to electricity tariff availability

Heater type	Electricity tariff: G12 8h+2h=10h	Electricity tariff: C 10h+6h=16h
	Output [W]	Output [W]
DGW/DGS 16	840 W	1150 W
DGW/DGS 20	920 W	1300W
DGW/DGS 30	1500 W	2200 W
DGW/DGS 40	1890 W	2600 W
DGW/DGS 50	2570 W	3450 W
DGW/DGS 60	2980 W	3950 W
DGW/DGS 70	3290 W	4500 W
DGA/DGN 12	620 W	1000 W
DGA/DGN 16	820 W	1180 W
DGA/DGN 20	1130 W	1550 W
DGA/DGN 30	1440 W	1950 W
DGA/DGN 40	1700 W	2400 W
Slim heaters		
DGP 12	580 W	700 W
DGP 18	890 W	1350 W
DGP 24	1170 W	1500 W
DGP 30	1460 W	1800 W
DGP 36	1730 W	2200 W

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Components of INPROEL 3 dynamic discharge storage heaters

Heater type	Heating unit	Core [pcs]		Brackets
		Pcs.	Pcs.	
DGW/DGS 16	GGs 1616	KMK 10		
DGW/DGS 20	GGs 2020	KMD 10		
DGW/DGS 30	GGs 3030	KMK 20		
DGW/DGS 40	GGs 4040	KMD 20		
DGW/DGS 50	GGs 5050	KMK 20	KMD 10	
DGW/DGS 60	GGs 6060	KMD 30		
DGW/DGS 70	GGs 7070	KMK 20	KMD 20	
DGA/DGN 12	GGA 1212	KMD 6		
DGA/DGN 16	GGA 1616	KMK 12		
DGA/DGN 20	GGA 2020	KMD 12		
DGA/DGN 30	GGA 3030	KMK 6	KMK 12	
DGA/DGN 40	GGA 4040	KMD 18		
DGP 12	GGP 1212	KFP 2 sets		UGP 2 sets
DGP 18	GGP 1818	KFP 3 sets		UGP 2 sets
DGP 24	GGP 2424	KFP 4 sets		UGP 3 sets
DGP 30	GGP 3030	KFP 5 sets		UGP 3 sets
DGP 36	GGP 3636	KFP 6 sets		UGP 3 sets
				NGP – additional set, base

KFP – box containing two core stones
 KMK – short core stones
 KMD – long core stones
 UGP – box containing one wall bracket
 DGP – slim heater casing
 DGA – standard heater casing
 DGW – high heater casing
 GGP – box containing coil radiator set
 (slim heater)
 GGA – box containing coil radiator set
 (standard heater)
 GGS – box containing coil radiator set
 (high heater)

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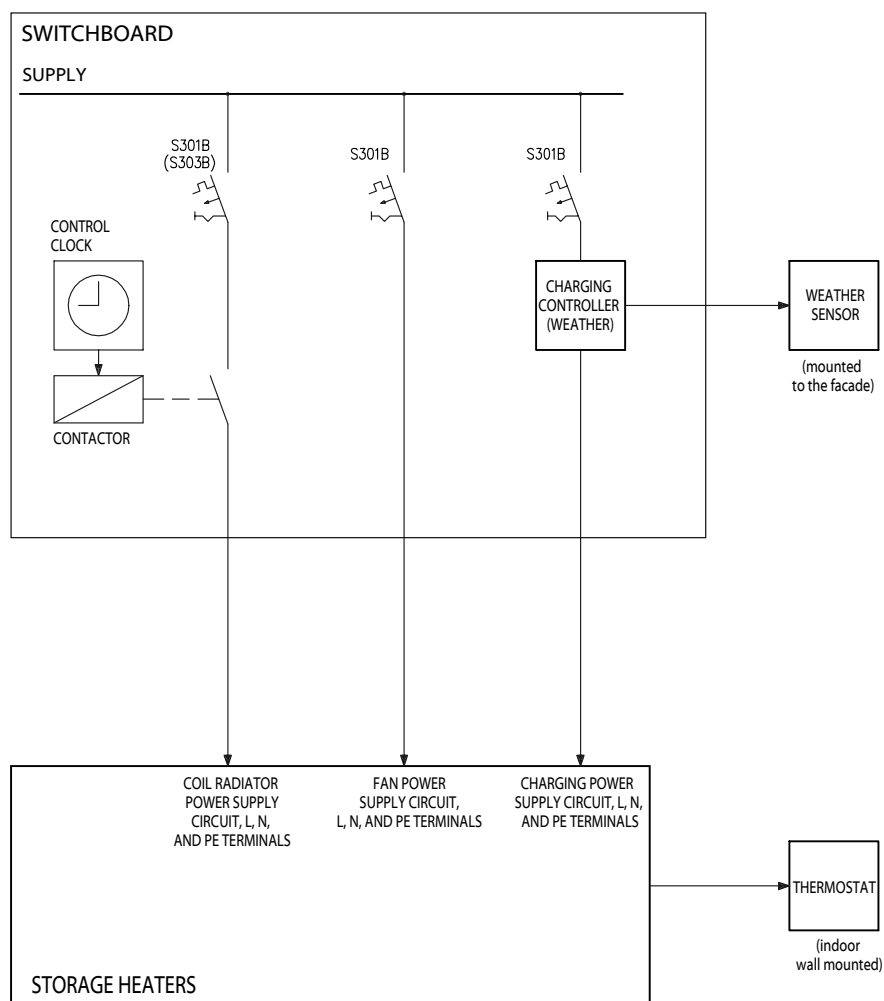
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Scheme of storage heater supply and control circuits



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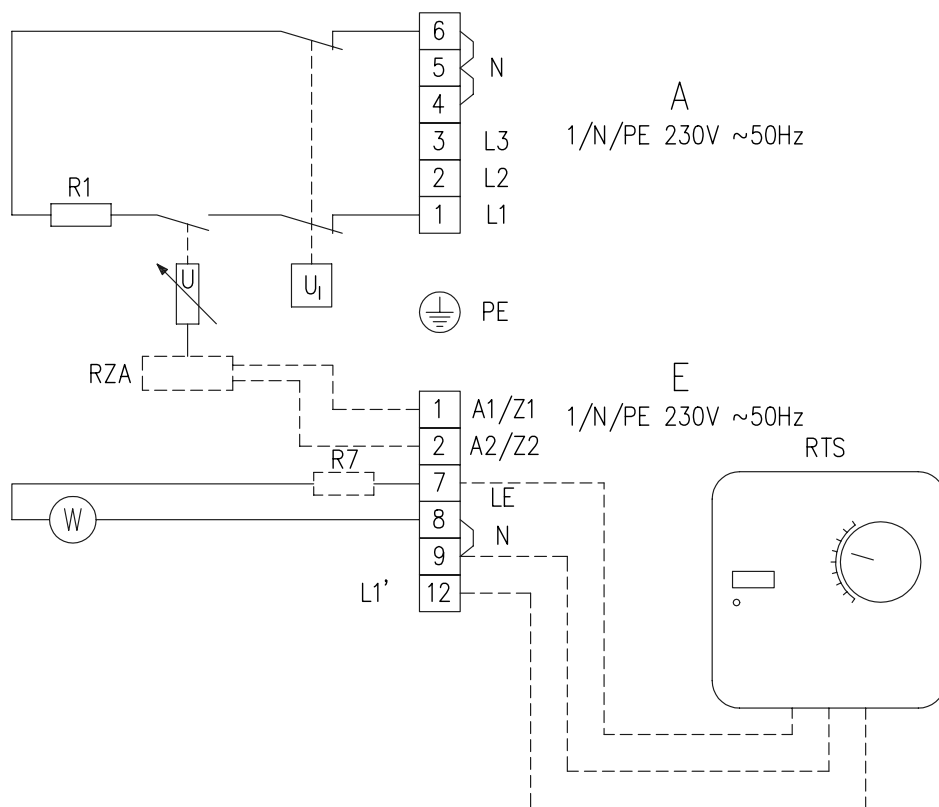
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Electric scheme:

DGA 12, DGA 16 and DGN 12, DGN 16



- A - charging unit
- A1, A2 - external charging control terminals
- E - discharge unit
- LE - fan terminal
- U - charge regulator
- W - fan
- L1' - 24h power supply terminal
- L1, L2, L3 - low tariff power supply terminals
- N - zero conductor terminal
- PE - protection terminal
- R1 - heating element
- R7 - fan circuit adjustment resistor
- RZA - accessory controller
- U1 - temperature limit switch on L1
- RTS - room temperature controller

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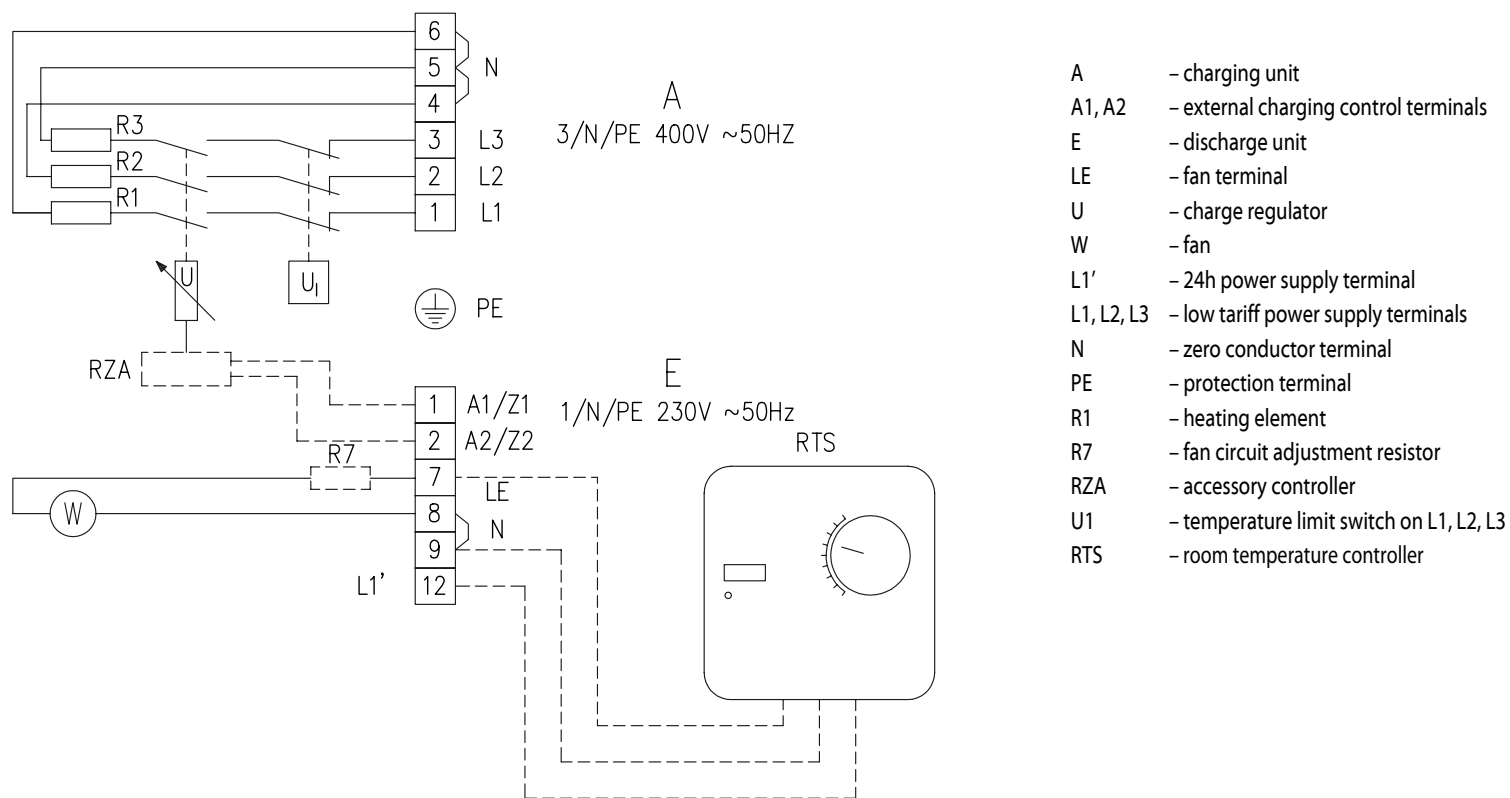
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Electric scheme:

DGA/DGN 20 – DGA/DGN 40, DGW/DGS 16 – DGW/DGS 70, DGP 12 – DGP 36



- A – charging unit
- A1, A2 – external charging control terminals
- E – discharge unit
- LE – fan terminal
- U – charge regulator
- W – fan
- L1' – 24h power supply terminal
- L1, L2, L3 – low tariff power supply terminals
- N – zero conductor terminal
- PE – protection terminal
- R1 – heating element
- R7 – fan circuit adjustment resistor
- RZA – accessory controller
- U1 – temperature limit switch on L1, L2, L3
- RTS – room temperature controller

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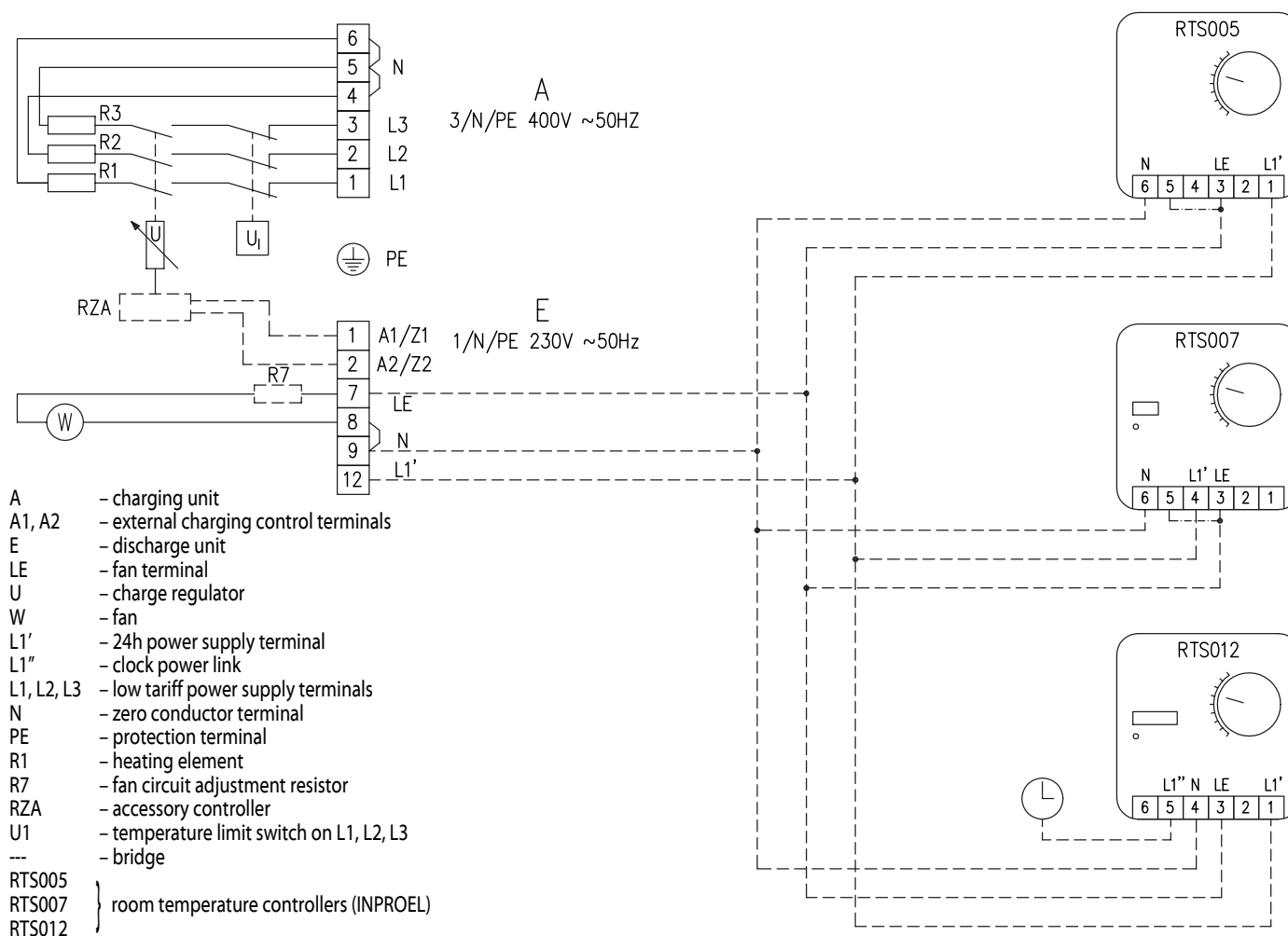
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RTS room temperature regulator circuit scheme



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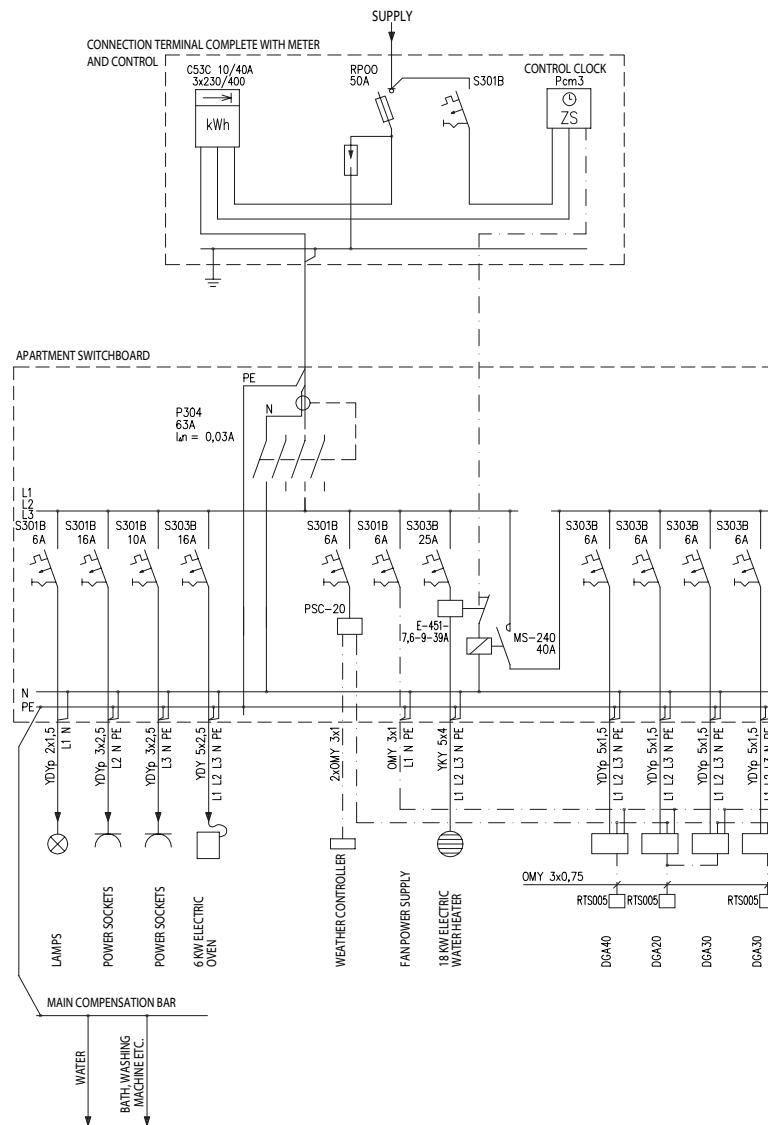
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Power supply scheme



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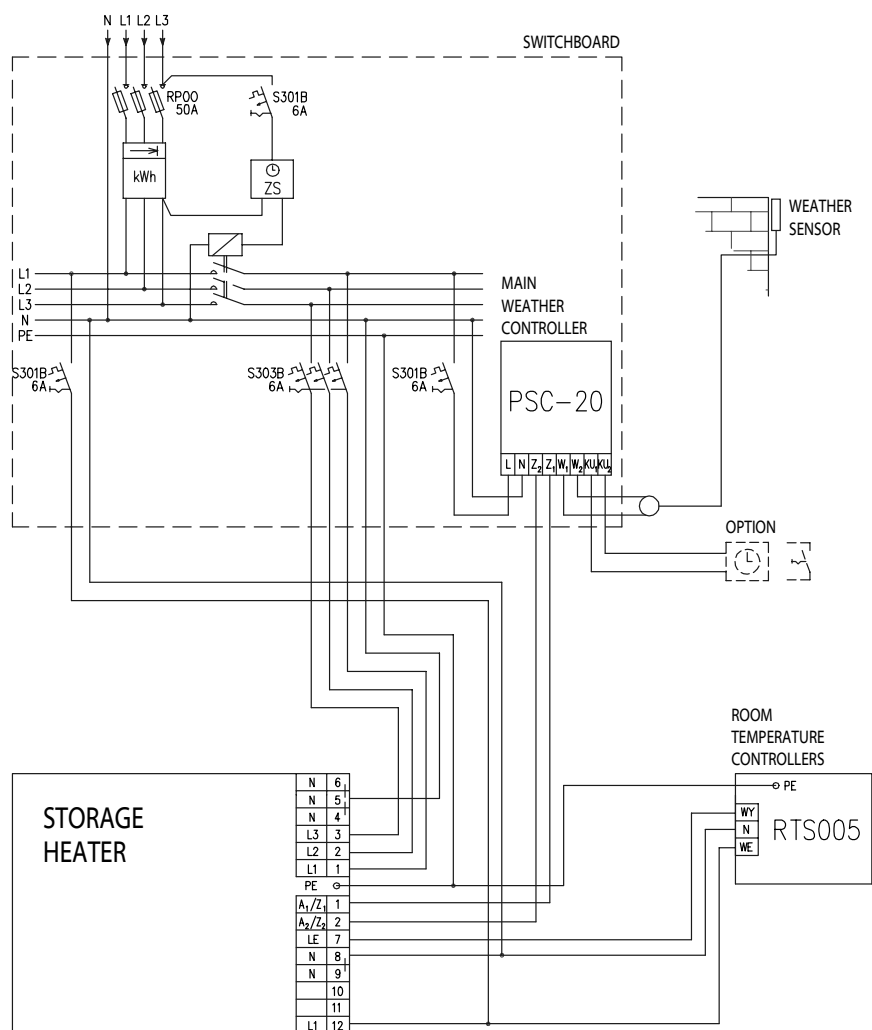
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Electric scheme: single storage heater



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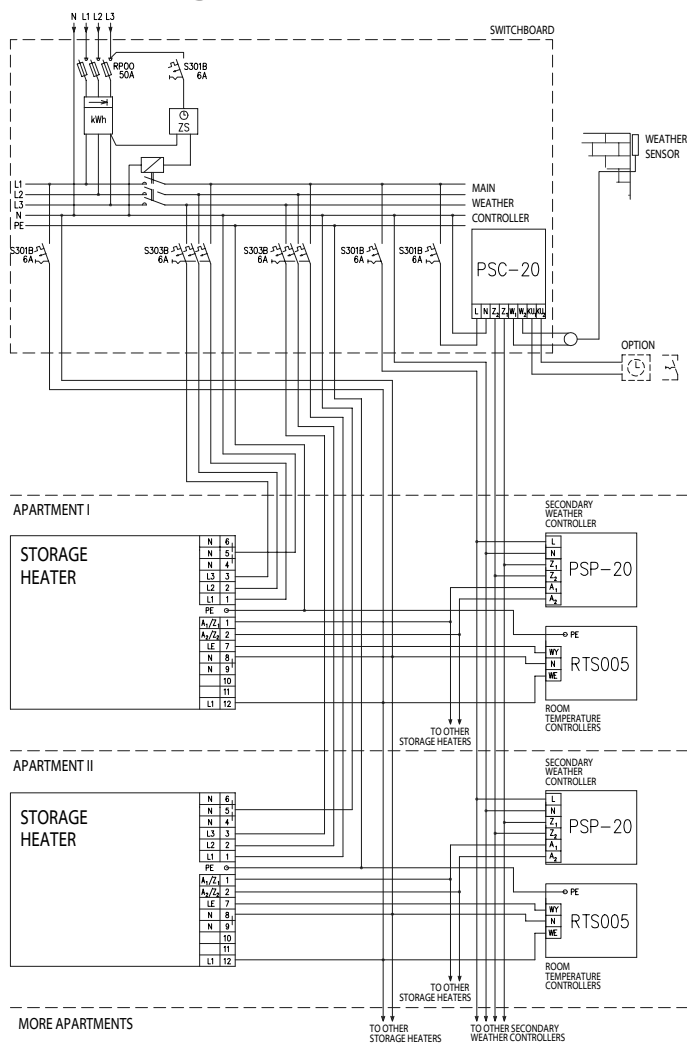
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Electric scheme: more than one storage heater



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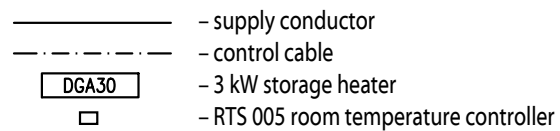
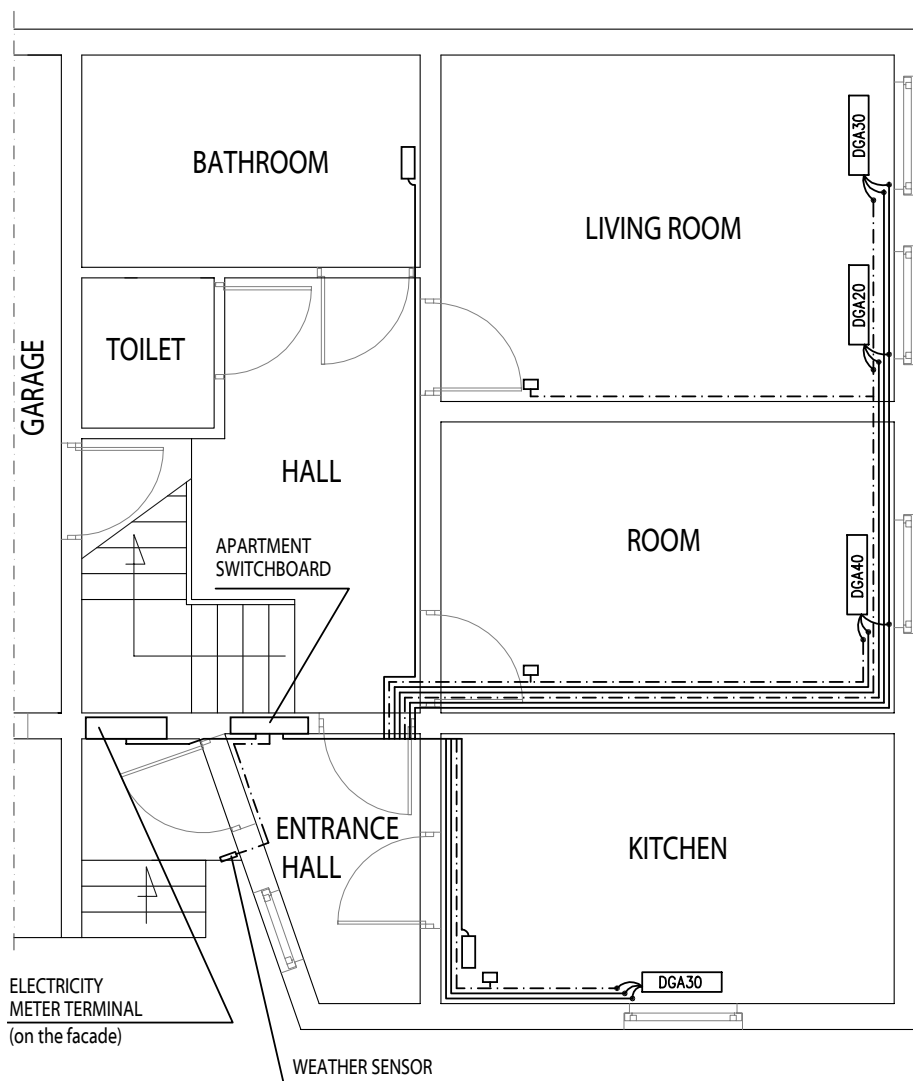
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Heating system scheme: 1:50



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Customers

Warsaw, Castorama
Piaseczno, Leroy Merlin
Zakład Utylizacji Odpadów Powęglowych CERG, Gliwice
NITRON-ERG, Krupski Młyn
Miasteczko Śląski Municipality
Słupca Power Co.
Nowoczesna Housing Cooperative, Racibórz
KRYWAŁD-ERG Plastic Processing Co. – Żory
Kościszko Steelworks, Chorzów
Nadwiślańska Spółka Węglowa and WBK – Tychy
Strzelce Opolski Housing Cooperative
Three apartment houses in Kędzierzyn Koźle
ZREMB Sp. z o.o. Opalenica
Przedsiębiorstwo Budownictwa Drogowego Poznań
PKS Autotransport, Błonie k/Warszawy
OMEGA Katowice
Military unit in Pomiechówko k/Warszawy
ZADWORZE Housing Cooperatiwe, Kraków
CONTRACOR Kraków
PRO-ARTE Kraków
Konserwacja Zabytków Kraków
Warsaw Power Co., Wołomin Division
Prefabet Krzeszowice
MŁODA RODZINA Housing Cooperative, Kraków
Warsaw Power Co., Wyszków Division
Stargard Szczeciński City Museum
Poznań Power Co.
MOJE MIESZKANIE Housing Cooperative, Kraków
ZUT Warehouse, Tychy
Glimat Co., Gliwice

Paczków Medical Center
Guesthouse in Nowy Świętów
Opolski Kopalnie Surowców Mineralnych mines, Goraźdże
Polskie Sieci Elektroenergetyczne, Poznań
Młyn Wodny hotel and restaurant, Gorzów Wlkp.
Zamojski Museum, Kozłówka
Klub Książki Katolickiej, Poznań
Poznań Housing Cooperative Social Premises, Poznań
Apriculture museum, Swarzędz
Gliwice private language school
JANINA hotel, Rytko k.Nowego Sącza
Czynszówka Housing Society, Gdynia
Częstochowa Municipality
Wielkopolskie Children Hospice, Poznań
Jarocin parish church
Rogoźno parish church
Chodzież parish church
Chełmce k.Kalisza parish church
Pharmacies in Poznań, Zielona Góra, and Gorzów
Railway marshalling yard offices, Franowo
Apartment housing in Stawoborze
Totalizator Sportowy, Warszawa
Koszalin Power Co. Division
Gorzów Wlkp. Power and Heat Plant
Licheń Stary primary school
Military Engineering Plant, Gniewno
Poczta Polska Łódź
Dobre Domy apartment housing, Nysa

and a number of private customers.

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