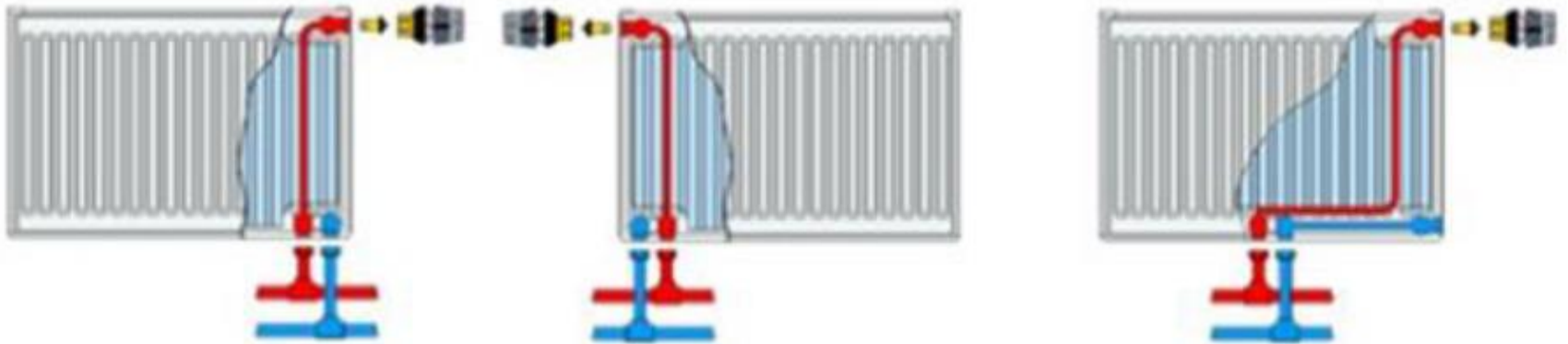
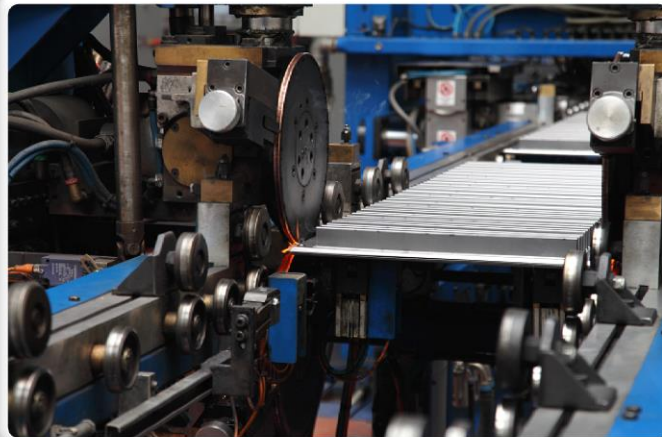


VENTIL COMPACT SERIES

PEKPAN PANEL RADIATOR
2017



Pekpan Panel Radiators are produced in most modern and integrated computer controlled automated production lines in compliance with international **NF (THERMOKRAFT)**, **CE**, **EN 442**, **GOST-R**, **UKR Sepro** and **TSE** standards.





We are warming the world.
Wir wärmen die Welt
Мы потепление мир

PEKPAN is one of the largest panel radiator manufacturer in Turkey by using advanced technology production lines with productiveness of over two million pieces annually.

PEKPAN has achieved a success not only in the domestic market, **PEKPAN** is also the leader among exporters in its sector.



VENTIL COMPACT PANEL RADIATORS

Description

4 Different Types : 11-PK, 21-PKP, 22-PKKP, 33-PKKPKP

6 Different Heights : 300 mm - 400 mm - 500 mm - 600 mm - 700 mm - 900 mm

27 different length choices from 400 mm to 3000 mm with the increases of 100 mm.

Cold rolled panel and convector steel plate according to DIN EN 10130 standards on DC 01 quality.

Modern 33.3 mm pitch water channel design.

Maximum thermal heat outputs with wide convector surface area.

- Production is optional with or without mensoles upon request.
- Ventil compact panel radiators can be produced as ventile to be placed in right & left side or middle connection upon request.

Quality

Before leaving the factory each radiator is individually tested for leaks.

- Testing pressure is 13 bar.
- Maximum operating pressure is 10 bar.
- Maximum working temperature is 110°C.

Certified to **CE, NF(Thermokraft), TS EN ISO 9001:2008, TS EN ISO 14001, OHSAS 18001, GOST - R, UKR SEPRO**



VENTIL COMPACT PANEL RADIATORS

Painting

High corrosion resistance with **nano-technological** surface treatment.

Ecological water based wet paint & **RAL 9016** epoxy polyester electrostatic powder paint.

Packaging

Panel Radiators are individually bubble-wrapped and radiators are packed in shrink-wrapped to achieve maximum durability during transportation and storage until installation is complete. The pack is clearly marked with the type and size.

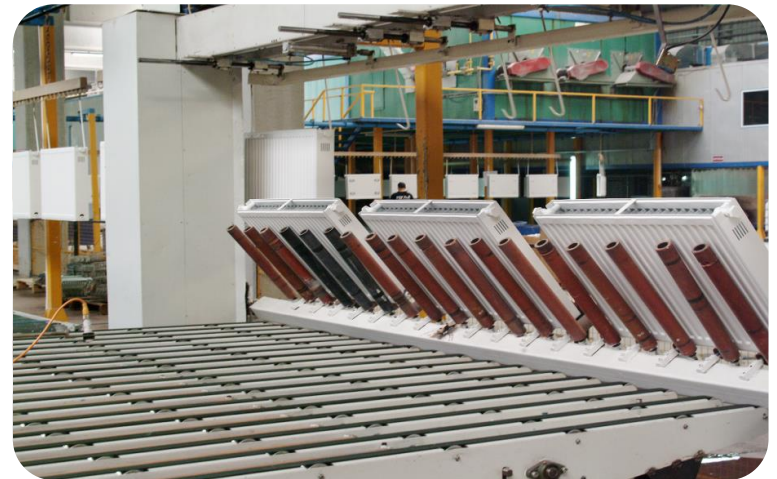
Wide assembly kit including L-consoles, blind plug, purger plug, dowel, screws and clips as a standard.

Universal hanger, floor stander, thermostatic insert valves and thermostatic heads can be supplied upon request.

Connections

6 x interior threads G ½"

8 x interior threads G ½"



PRODUCT RANGE



VENTIL COMPACT PANEL RADIATORS

Panel Radiators with **Ventil Compact** has the possibility of both side connection and bottom connection. Bottom connection will be on the **right side, left side** and the **middle side**.

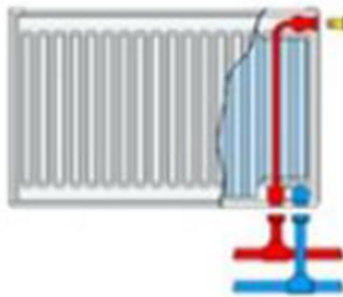
Ventil compact Panel Radiators will be procured with insert valve and thermostatic valve inclusive or additionally.

It is possible to supply with standart hangers or universal hangers providing opportunity to use double side of the radiator without hangers.

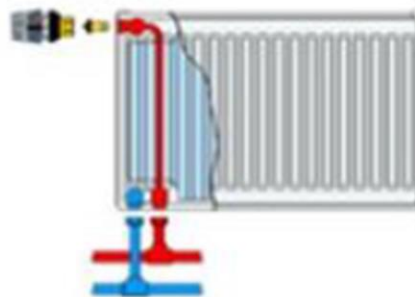


VENTIL COMPACT PANEL RADIATORS

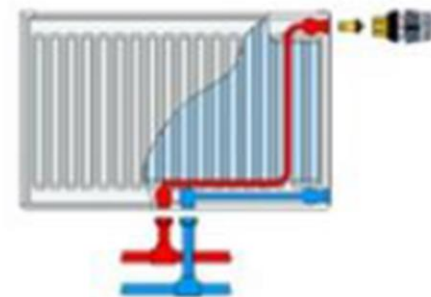
Recommended connection methods;



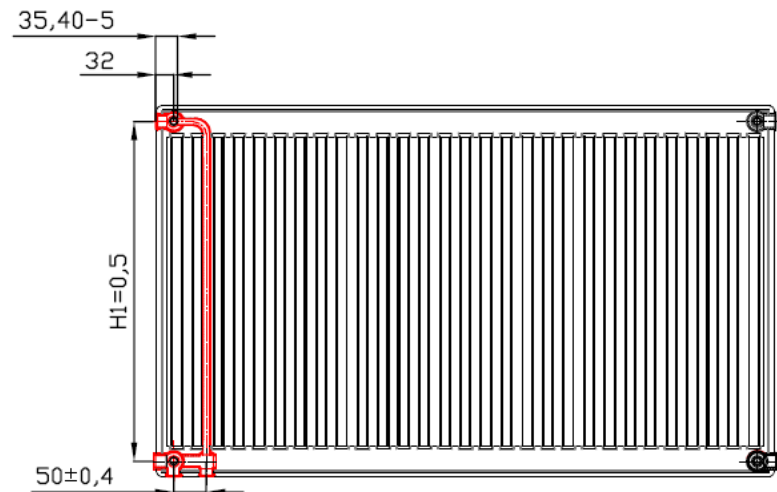
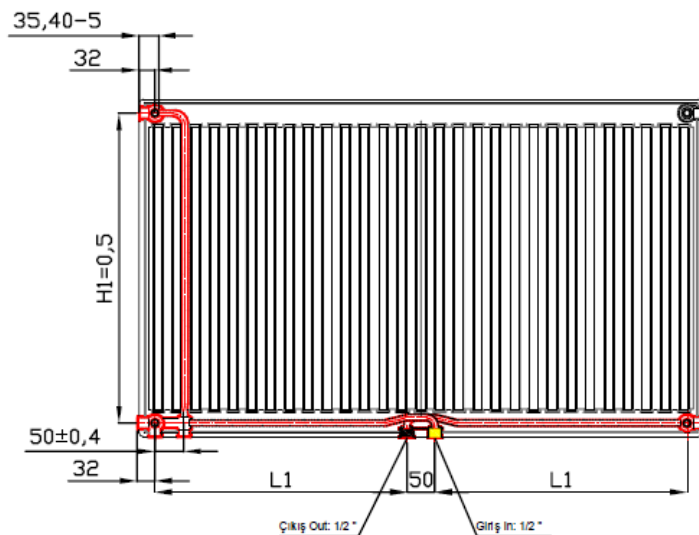
Right Side Connection



Left Side Connection



Middle Connection

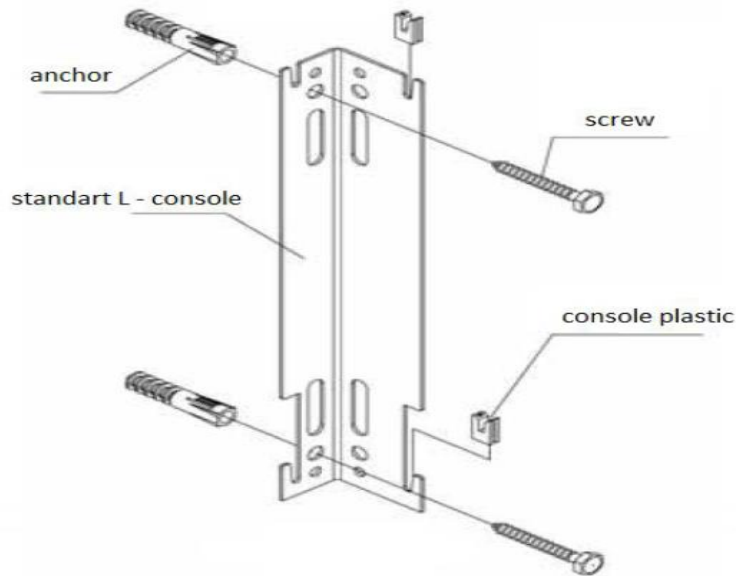


ASSEMBLY ACCESORIES

1 - L-Console

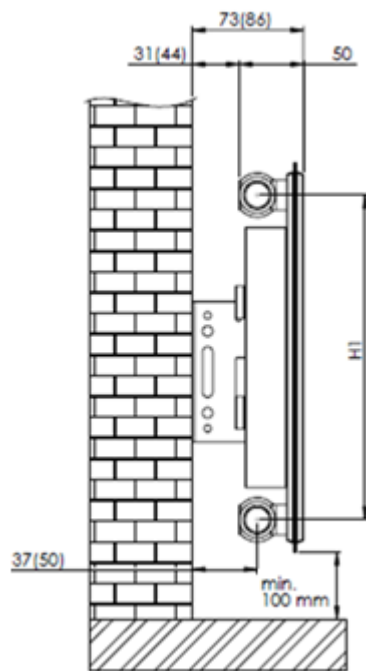
L-Consoles are coming with each individual package for welded mensole brackets of all types and models of panel radiators in standard packaging application.

- *L-Console selection depends on the height (H) of the panel radiator.*
- *It enables mounting from the wall at a distance of 31 mm or 44 mm.*
- *It is used for concrete structures and masonry from porous concrete and solid bricks.*

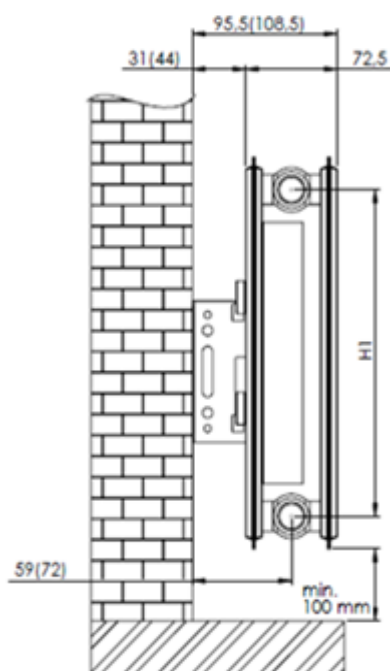


Sizes	Piece
From 400mm to 1600mm	2 pcs.
From 1700mm to 2400mm	3 pcs.
From 2500mm to 3000 mm	4 pcs.

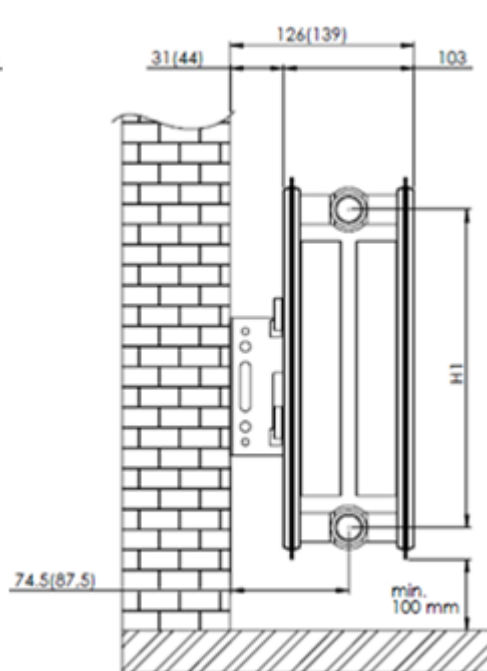
Radiator Height (mm)	Console Length (mm)
300	108
400	174
500	274
600	374
700	474
900	674



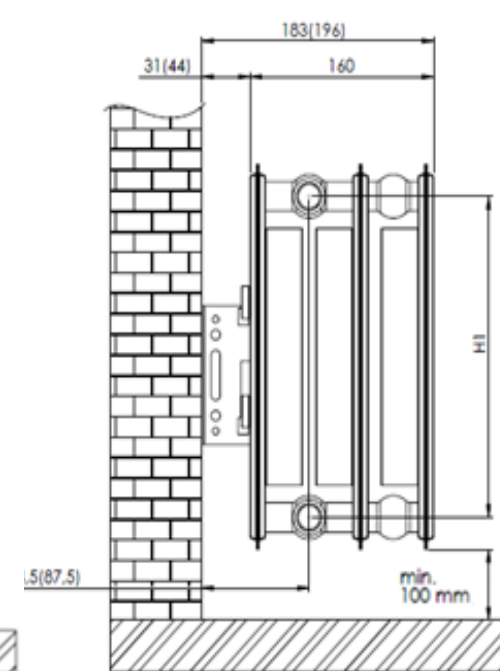
Type 11



Type 21



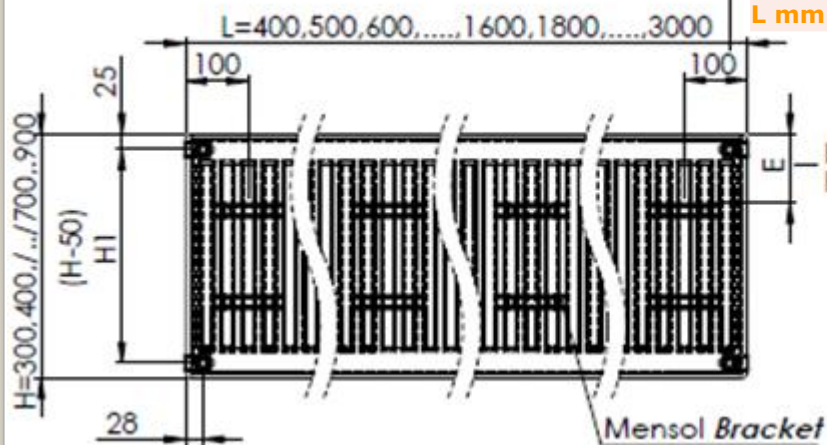
Type 22



Type 33

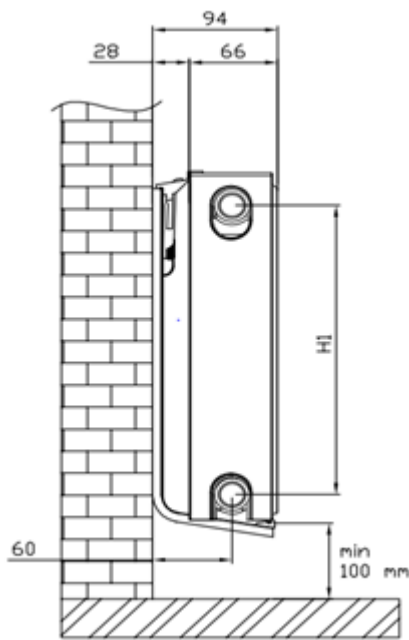
For Type 11 d=116,7 mm

H mm	300	400	500	600	700	900
H1 mm	250	350	450	550	650	850
L mm	400-3000	400-3000	400-3000	400-3000	400-3000	400-3000

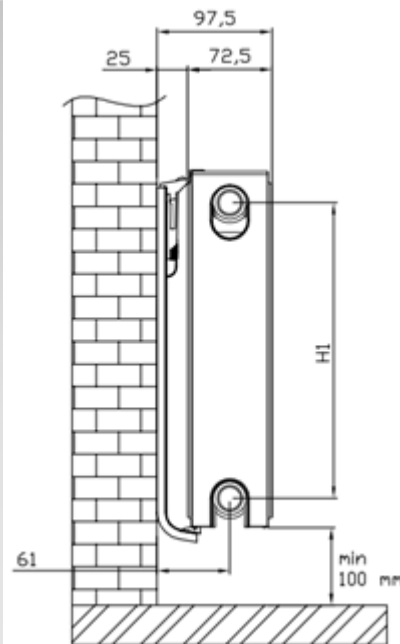


Assembly Dimensions with L-Console

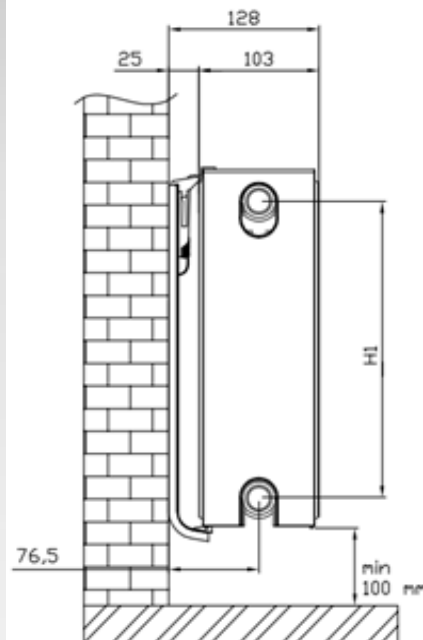




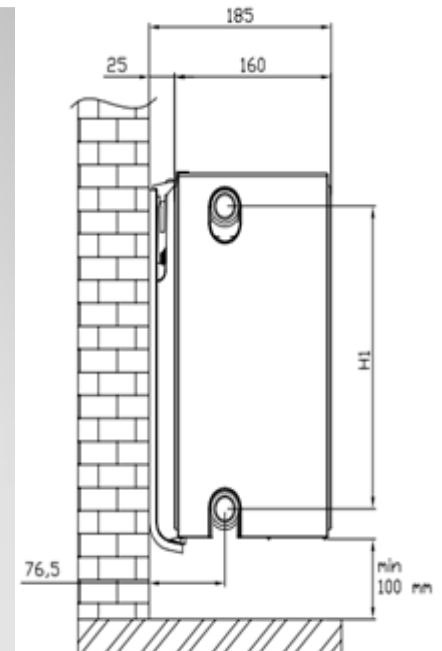
Type 11



Type 21



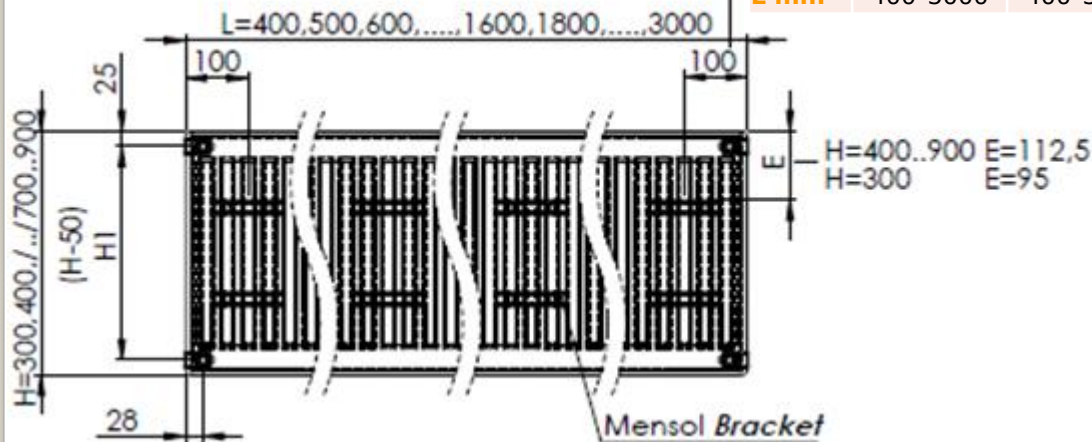
Type 22



Type 33

For Type 11 d=116,7 mm

H mm	300	400	500	600	700	900
H1 mm	250	350	450	550	650	850
L mm	400-3000	400-3000	400-3000	400-3000	400-3000	400-3000



Assembly Dimensions
with Universal-Hanger

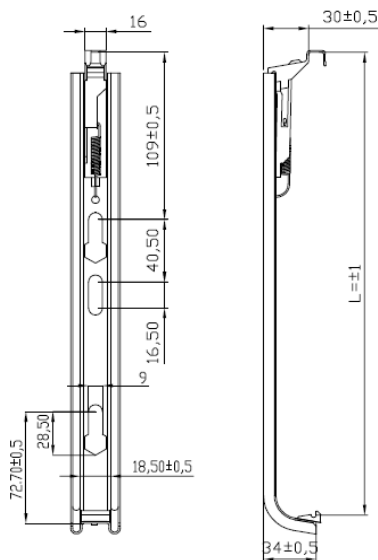


ASSEMBLY ACCESORIES

2 - Spring Console (Universal Hanger)

When placing the ventil compact panel radiator to the wall, it is necessary to use universal hangers which are designed mainly for radiators without welded mensol brackets.

- *The selection depends on the height of the radiator (H).*
- *It equipped with a safety catch to prevent the radiator from lifting.*
- *It enables mounting to the wall at a distance of $D=30\text{ mm}$ from the wall.*
- *It is used for concrete structures and masonry from porous concrete and solid bricks.*



Radiator Height (mm)	Dimension L (mm)
300	298
400	398
500	498
600	598
700	698
900	898

Sizes	Piece
From 400mm to 1600mm	2 pcs.
From 1700mm to 2400mm	3 pcs.
From 2500mm to 3000 mm	4 pcs.



ASSEMBLY ACCESSORIES

4 - Assembly Kit – Ventil Compact (4 mensoles)



- Assembly kits are coming with each individual package in standard packaging applications.

Assembly Kit

Anchor	4 pcs
Clips	4 pcs
Trifon screw	4 pcs
Pruger flange	1 pc
Blind flange	3 pc
Air vent key	1 pc

Assembly Kit - Ventil Compact (6 mensoles)



- **Usage:** From 400mm to 1600mm → 1 set
From 2500mm to 3000mm → 2 sets

Assembly Kit

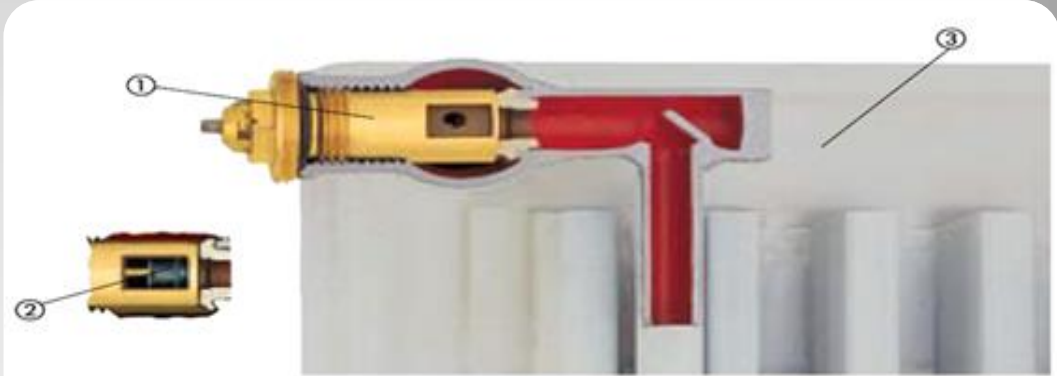
Anchor	6 pcs
Clips	4 pcs
Trifon screw	6 pcs
Pruger flange	1 pcs
Blind flange	3 pc
Air vent key	1 pc

- **Usage:** From 1700mm to 2400mm → 1 set



ASSEMBLY ACCESSORIES

5 – Thermostatic Insert Valve



1. Thermostatic insert with presetting
2. Factory setting / single-pipe operation
3. Radiators with integrated valves.



Danfoss Art. No: 013G1382



Heimeier Art. No: 4333



Pakkens Art. No: 9642



ASSEMBLY ACCESORIES

6 – Thermostatic Head

Thermostatic heads are used to control the temperature of individual rooms using panel radiators.

- **Heimeier** and **Pakkens** thermostatic heads are designed to be mounted on all thermostatic valve bodies and on radiators with integrated valves which have an M 30 x 1.5 connecting thread on the thermostatic insert.
- **Danfoss** thermostatic heads are designed to be integrated with only **Danfoss** thermostatic insert!



Heimeier Art. No: 6700-00.500



Danfoss Art. No: 013G5023



Pakkens Art. No: 09600801



HANDLING AND STORAGE

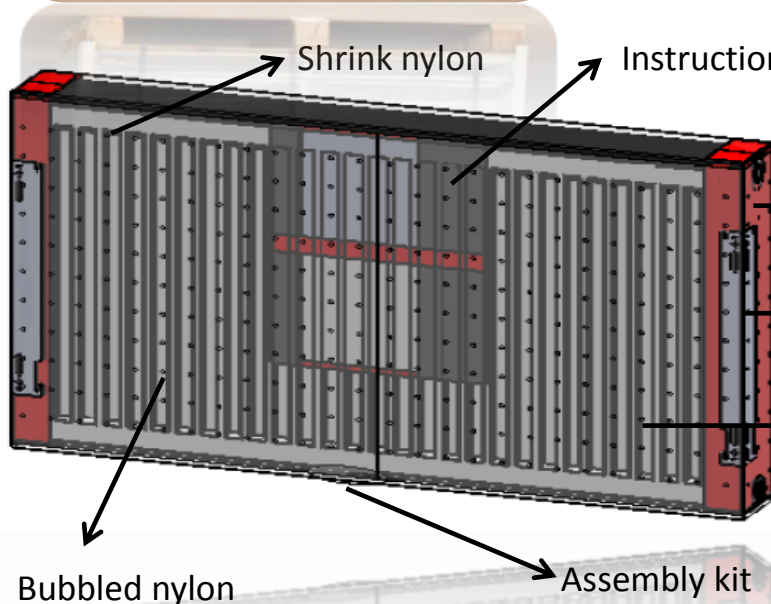


→ White cardboard edges

→ Plastic banding

→ Wooden pallet

- *Cardboard edges apply to the end panel to increase strength.*
- *Wooden pallets stacked to eliminate compression damage.*
- *Plastic banding applies to secure the goods to the pallet.*



→ Side cartoon box

→ L-Console

→ Black plastic mensole protectors

Pekpan Panel Radiators are individually **bubble-wrapped** and radiators are packed in **shrink-wrapped** to achieve maximum durability during transportation and storage until installation is complete.

- ❑ *The pack is clearly marked with the type and size.*



TECHNICAL DETAILS

MATERIAL	FEATURES	SUPPLIER	CERTIFICATIONS
Panel steel sheet	DC 01 CCR 6112K 1,11mm (+0,04)	ERDEMİR	ISO 9001-14001-OHSAS 18001 ISO/TS 16949
Convector steel sheet	DC 01 ICCR 6112K 0,30mm ($\pm 0,03$)	ERDEMİR	ISO 9001-14001-OHSAS 18001 ISO/TS 16949
Mensol bridge steel sheet	DC 01 CCR 6112K 1,11mm	ERDEMİR	ISO 9001-14001-OHSAS 18001 ISO/TS 16949
Console steel sheet	GZR 1311K 1,20mm	ERDEMİR	ISO 9001-14001-OHSAS 18001 ISO/TS 16949
Top grill steel sheet	DC 01 CCR 6112K 0,60mm	ERDEMİR	ISO 9001-14001-OHSAS 18001 ISO/TS 16949
Spacer steel sheet	TRPKK 6222K 3,00mm	ERDEMİR	ISO 9001-14001-OHSAS 18001 ISO/TS 16949
Side cover steel sheet	DC 01 CCR 6112K 0,60mm	ERDEMİR	ISO 9001-14001-OHSAS 18001 ISO/TS 16949
Powder coating paint	EPOXY POLYS. RAL 9016 0.80 180 °C	İBA KİMYA	ISO 9001-14001-OHSAS 18001
Wet paint (undercoat)	WATER BASED	KANSAI ALTAN	ISO 9001-14001-OHSAS 18001 ISO/TS 16949
Zr+Silane Coating	OXASILAN®	CHEMETALL	ISO 9001-14001-OHSAS 18001 ISO/TS 16949 EN 9100:2009 GMP VCA** 2004/04



TECHNICAL DETAILS

MATERIAL	FEATURES	SUPPLIER	CERTIFICATIONS
Oil removal chemical	GARDOLCLEAN 535	CHEMETALL	ISO 9001-14001-OHSAS 18001 ISO/TS 16949 EN 9100:2009 GMP VCA** 2004/04
Leak testing chemical	P3 DIMAL P21	HENKEL	ISO 9001-14001-OHSAS 18001

NIPPLE DIAMETER AND THICKNESS: G ½ " X 2,5 mm

COMPACT PLUG AXIAL DISTANCE : 50 mm

PITCH : 33.3 mm

HEIGHTS : 300 - 400 - 500 - 600 – 700 - 900 mm

LENGTHS : 400 mm..... 3000 mm

TYPES : 10 (P) - 11 (PK) - 20 (PP) - 21 (PKP) - 22 (PKKP) - 33 (PKKPKP)

WORKING PRESSURE : 10 Bar

TESTING PRESSURE : 13 Bar

MAX. TEMPERATURE : 110 °C

WARRANTY : 10 Years

APPLIED STANDARD : EN 442

CERTIFICATIONS : CE – NF - ISO 9001:2008 - ISO 14001:2004 - OHSAS 18001:2007 - GOST-R - TSE
UKR SEPRO

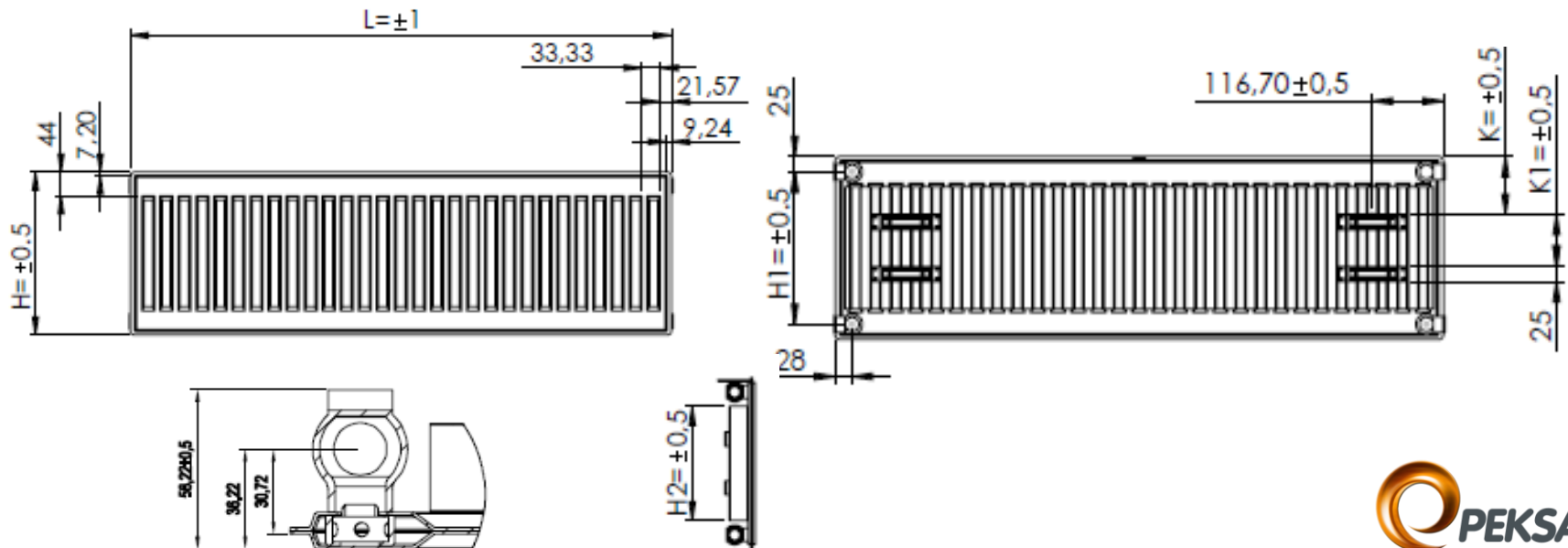
ASSEMBLY ACCESORIES : Purger plug, blind plug, trifon screw, clips, L- console

☐ Thermostatic Insert valve, thermostatic head, spring console, floor console are optional upon request.



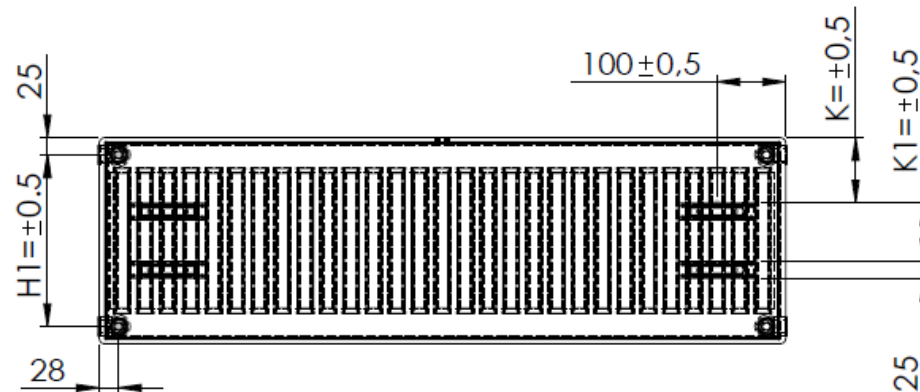
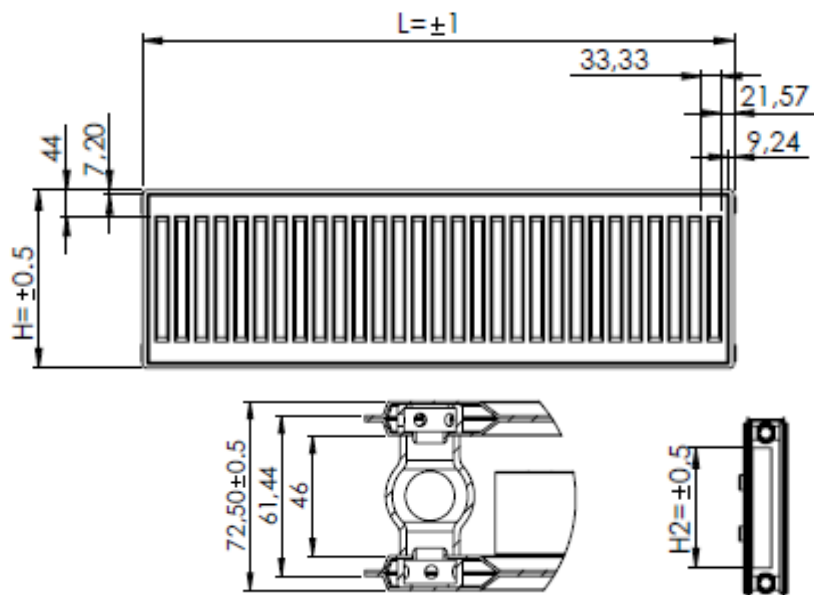
TECHNICAL DETAILS

TYPE	HEIGHT	MANIFOLD DISTANCE	DEPTH	CONVECTOR HEIGHT		WATER CONTENT		MASS	MIN-MAX LENGTH
	H(mm)	H1(mm)	(mm)	H2(mm)	K(mm)	K1(mm)	(l/m)	(kg/m)	L(mm)
11	300	250	58,22	200	95	85	1,5	8,48	400-3000
	400	350	58,22	300	112,5	150	2	11,03	400-3000
	500	450	58,22	400	112,5	250	2,5	13,83	400-3000
	600	550	58,22	500	112,5	350	3	16,75	400-3000
	700	650	58,22	600	112,5	450	3,35	19,41	400-3000
	900	850	58,22	800	112,5	650	4,5	23,90	400-3000



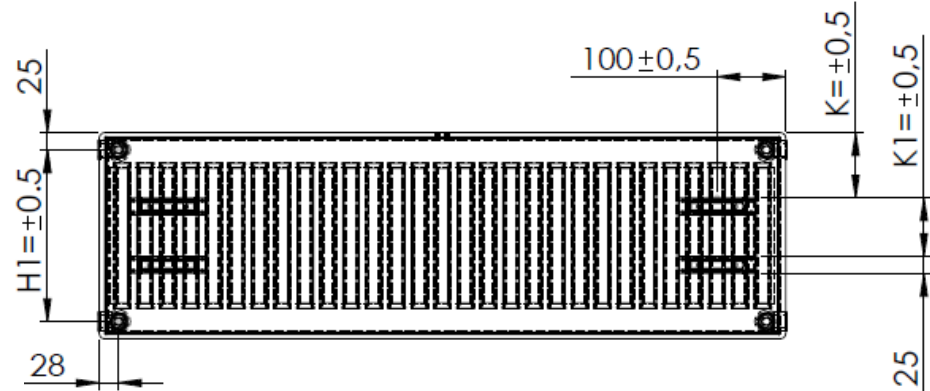
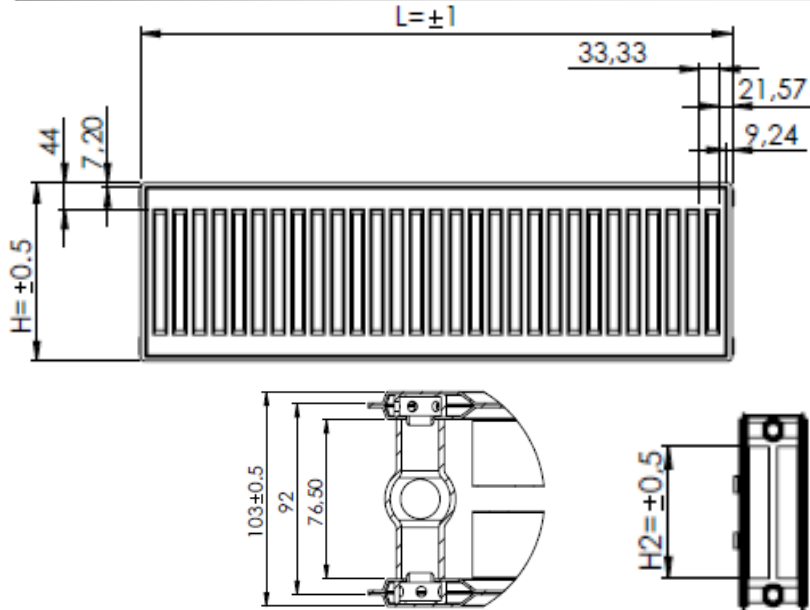
TECHNICAL DETAILS

TYPE	HEIGHT	MANIFOLD DISTANCE	DEPTH	CONVECTOR HEIGHT			WATER CONTENT	MASS	MIN-MAX LENGTH
	H(mm)	H1(mm)	(mm)	H2(mm)	K(mm)	K1(mm)	(l/m)	(kg/m)	L(mm)
21	300	250	72,5	200	95	85	3	13,58	400-3000
	400	350	72,5	300	112,5	150	4	17,85	400-3000
	500	450	72,5	400	112,5	250	5	22,66	400-3000
	600	550	72,5	500	112,5	350	6	27,67	400-3000
	700	650	72,5	600	112,5	450	6,7	31,83	400-3000
	900	850	72,5	800	112,5	650	9	39,47	400-3000



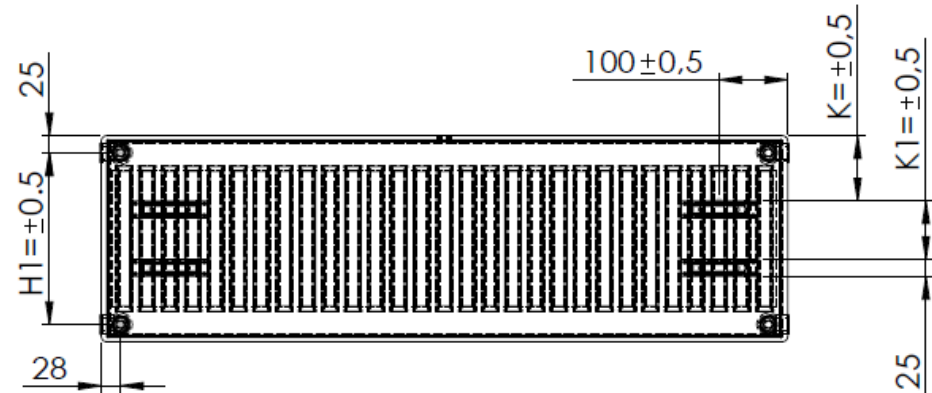
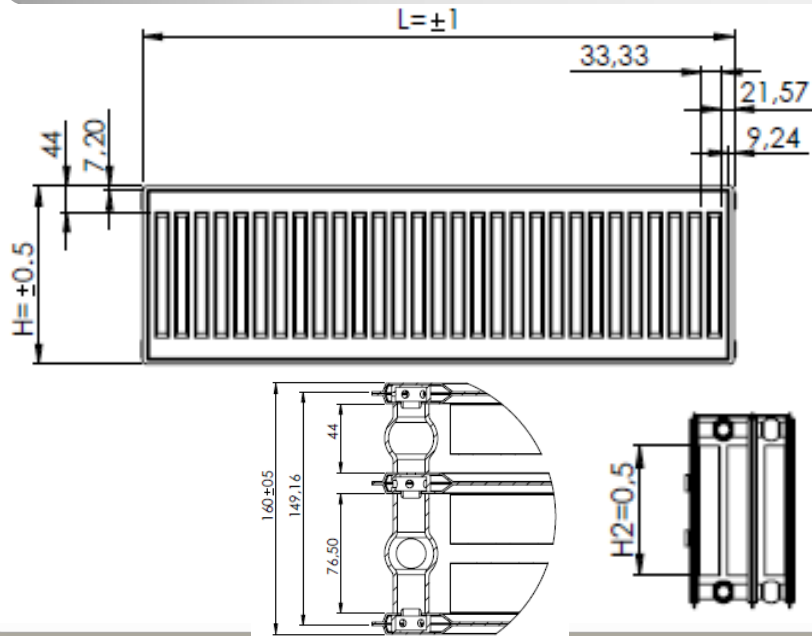
TECHNICAL DETAILS

TYPE	HEIGHT	MANIFOLD DISTANCE	DEPTH	CONVECTOR HEIGHT		WATER CONTENT		MASS	MIN-MAX LENGTH
	H(mm)	H1(mm)	(mm)	H2(mm)	K(mm)	K1(mm)	(l/m)	(kg/m)	L(mm)
22	300	250	103	200	95	85	3	15,14	400-3000
	400	350	103	300	112,5	150	4	20,03	400-3000
	500	450	103	400	112,5	250	5	25,41	400-3000
	600	550	103	500	112,5	350	6	31,02	400-3000
	700	650	103	600	112,5	450	6,7	35,74	400-3000
	900	850	103	800	112,5	650	9	44,76	400-3000



TECHNICAL DETAILS

TYPE	HEIGHT	MANIFOLD DISTANCE	DEPTH	CONVECTOR HEIGHT		WATER CONTENT		MASS	MIN-MAX LENGTH
	H(mm)	H1(mm)	(mm)	H2(mm)	K(mm)	K1(mm)	(l/m)	(kg/m)	L(mm)
33	300	250	160	200	95	85	4,5	22,35	400-3000
	400	350	160	300	112,5	150	6	29,67	400-3000
	500	450	160	400	112,5	250	7,5	37,68	400-3000
	600	550	160	500	112,5	350	9	46,01	400-3000
	700	650	160	600	112,5	450	10,05	52,86	400-3000
	900	850	160	800	112,5	650	13,5	66,35	400-3000



CONDITIONS OF USE AND CARE

- 1) Panel radiators comply with EN 442, and are manufactured under quality management system approved by EN ISO 9001, environmental management system approved by EN ISO 14001 and occupational health and safety management system approved by OHSAS 18001.
- 2) Radiators must be protected against impact and crashing during transport and assembling.
- 3) Storage should not be done in a humid environment and packaging should not be opened during storage.
- 4) Max. working pressure is 10 Bar for Panel Radiators. For leakage test while assembling the radiators, water should be used max 8 bar pressure with a regulator.
- 5) Max. working temperature is 110 °C.
- 6) Before completing all kinds of painting in rooms and offices, shrink nylon packaging should not be unpacked.
- 7) In order to prevent water noise from your radiator; inlet valve position should be equal to outlet valve position or in slightly more open position.
- 8) Radiators should never left without water because of the corrosion effect. In this case, the radiator is not under warranty.
- 9) In order to get homogen heating from the radiator, the air in the heating water must be thrown out from purger plug with air vent key.
- 10) Excessive tightening of the water connection elements while assembling the radiator can cause damage in the connection elements. Due to that there will be leakage.
- 11) Radiator mounting to the wall; should be made from connection points on the radiator without harming the paint and keeping the packaging.
- 12) Be sure that the ambient temperature does not below 0°C. Freezing of water in the plumbing may damage both the radiator and the plumbing. If the ambient temperature falls below 0°C antifreeze should be added in water plumbing.
- 13) Do not use chemical cleaners with the aim of cleaning surface of the radiator.
- 14) Such items like furniture which is positioned in front of the radiator; prevents air circulation out of the radiator and reduces the heating efficiency.
- 15) Usage in the areas, which are directly contact with water vapor, is not under warranty.



TERMS OF GUARANTEE

Each panel radiator and all related parts are guaranteed for ten years from the date of installation against defects caused by faulty materials or manufacture. We replace the defective product with a similar one or we will send you spare parts.

The guarantee does not cover damages that are due to faulty storage and handling at delivery or installation, nor damages that are due to faulty use of the inadvisable water pressure and water quality, such as use of corrosive substances, too high pressure or damage due to freezing.

pH: (min 9,5 max: 11,5) total hardness : (max.30 ppm) CaCo3 Oxygen : (0 (zero))

In case of a guarantee claim the buyer must contact the seller and present some kind of evidence of purchase of the product, such as delivery note, claim report with photos and serial number which is placed on the convector.

The defective product always has to be sent back to seller for inspection within one month from the date of complaint, if not otherwise agreed upon.



CERTIFICATES



CE



UKR SEPRO



GOST-R



NF



ISO 9001:2008



ISO 14001:2009



OHSAS
18001:2007



www.pekpan.com.tr



Outside view of Pekpan