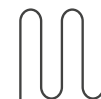


GK Classic

T24, T15, T15-S



Radiant
Systems

Panels for radiant metal ceilings

Datasheet
0992EN 03/2023

K6



K12



GK Classic panels are designed for installation of suspended ceiling heating and cooling radiant systems with 24 mm or 15 mm T-shaped exposed structure or 15 mm T-shaped exposed structure with shadow mold.

The panels consist of an oven-varnished galvanized steel sheet, thermal activation with 4 or 6 anodized aluminum thermal diffusers wide 75 mm and factory-glued to the panels, and a 12 mm copper pipe. The thermal insulation can be provided by the K820 polyester-fiber thermoacoustic panels.

The variety of panel profiles make the system modular and flexible; the inactive panels, with no hydraulic circuits, complete the radiant surfaces when combined to the adjoining structural elements.

Types of GK Classic panels

SERIES	TYPE	DATASHEET
GK Classic	T24: T24 base crossed structure	0992EN
	T15: T15 base crossed structure	
	T15-S: T15 base crossed structure with shadow mold	
	PSN: hidden suspended structure	0996EN
	PSN-APP: hidden structure and lay-in panels	In progress
	ACC: semi-hidden structure and side-by-side panels	

➤ Versions and product codes

SERIES	PRODUCT CODE	PANEL FINISH	COLOR	TYPE	ACTIVATION	MODULE DIMENSIONS [mm]	PANEL DIMENSIONS [mm]	EMPTY WEIGHT [kg]
GK Classic T24	K6X300	R2516 perforated	RAL 9003 white	Inactive	-	600 x 600	575 x 575	1,5
	K6CX300	R2516 perforated	RAL 9003 white	Active	Type C75 4 diffusers	600 x 600	575 x 575	3,3
	K6LX300	Smooth	RAL 9003 white	Inactive	-	600 x 600	575 x 575	1,7
	K6LCX300	Smooth	RAL 9003 white	Active	Type C75 4 diffusers	600 x 600	575 x 575	3,5
	K12X300	R2516 perforated	RAL 9003 white	Inactive	-	600 x 1200	575 x 1175	2,9
	K12CX300	R2516 perforated	RAL 9003 white	Active	Type C75 6 diffusers	600 x 1200	575 x 1175	5,4
	K12LX300	Smooth	RAL 9003 white	Inactive	-	600 x 1200	575 x 1175	3,4
	K12LCX300	Smooth	RAL 9003 white	Active	Type C75 6 diffusers	600 x 1200	575 x 1175	5,9
GK Classic T15	K6X330	R2516 perforated	RAL 9003 white	Inactive	-	600 x 600	584 x 584	1,6
	K6CX330	R2516 perforated	RAL 9003 white	Active	Type C75 4 diffusers	600 x 600	584 x 584	3,4
	K12X330	R2516 perforated	RAL 9003 white	Inactive	-	600 x 1200	584 x 1184	3,0
	K12CX330	R2516 perforated	RAL 9003 white	Active	Type C75 6 diffusers	600 x 1200	584 x 1184	5,5
GK Classic T15-S	K6X340	R2516 perforated	RAL 9003 white	Inactive	-	600 x 600	584 x 584	1,6
	K6CX340	R2516 perforated	RAL 9003 white	Active	Type C75 4 diffusers	600 x 600	584 x 584	3,4
	K12X340	R2516 perforated	RAL 9003 white	Inactive	-	600 x 1200	584 x 1184	3,0
	K12CX340	R2516 perforated	RAL 9003 white	Active	Type C75 6 diffusers	600 x 1200	584 x 1184	5,5

🔗 **NOTE.** The panels and structure type are customizable based on the technical and architectural requirements of the system.

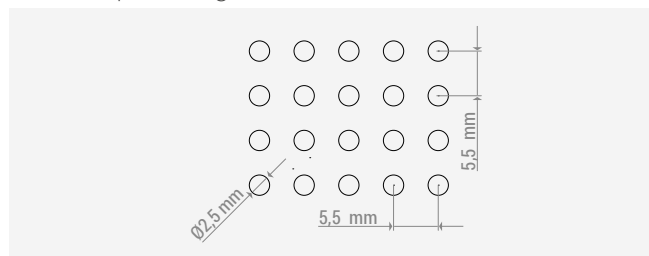
Technical data

Technical characteristics

- Galvanized steel sheet panel, RAL 9003 post-varnishing, thickness 0,6 mm
- Activation type: C75 with 4 or 6 anodized aluminum thermal diffusers
- Copper pipe coil Ø 12 mm
- Anchoring on reversed T crossed suspension: 24 mm, 15 mm, 15 mm with shadow mold
- Reaction to fire class: B-s1-d0
- Hydraulic circuit Kv: K6C: 0,98
K12C: 0,77
- Panel water content: K6C: 0,16 l
K12C: 0,24 l

Standard perforation

Available as smooth and perforated; the perforated version features Ø 2,5 mm holes on the entire surface, except for the 22 mm-wide edge profile (16% hole percentage).



Nominal outputs according to EN standards

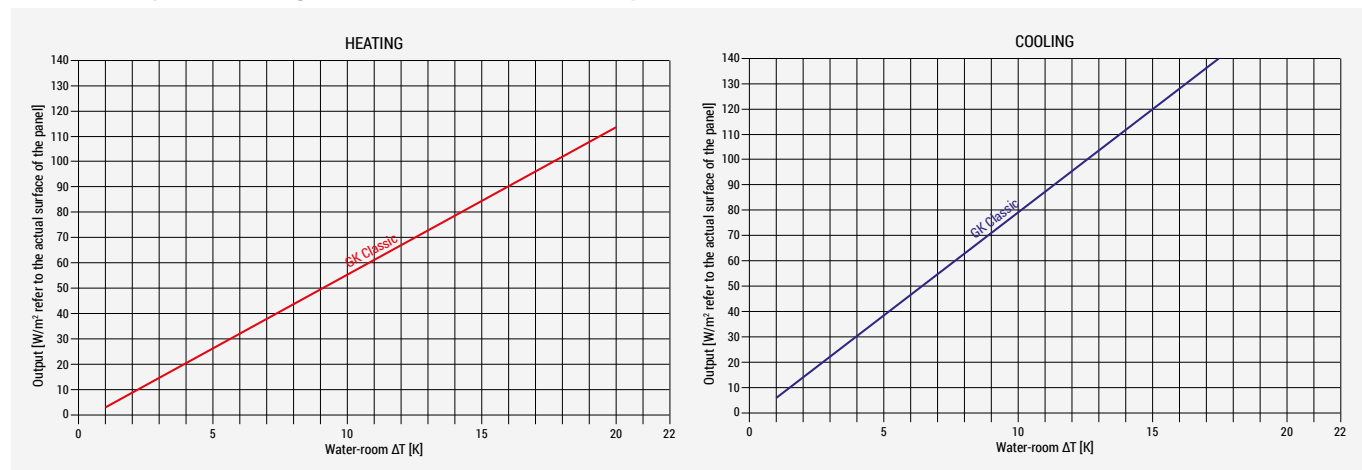
HEATING (ACCORDING TO EN14037)

132 W/m² with water-room ΔT 15 K

COOLING (ACCORDING TO EN14240)

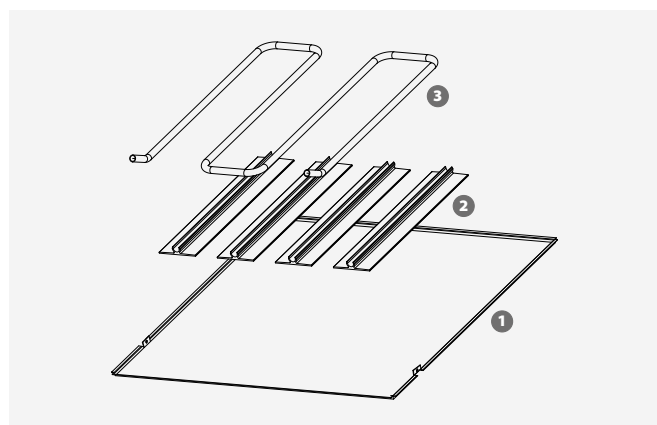
97 W/m² with water-room ΔT 8 K

Nominal outputs referring to the actual surface of the panel



NOTE. Thermal outputs according to thermostatic chamber tests. The outputs refer to the actual surface of the panel (with R2516 perforated).

Components

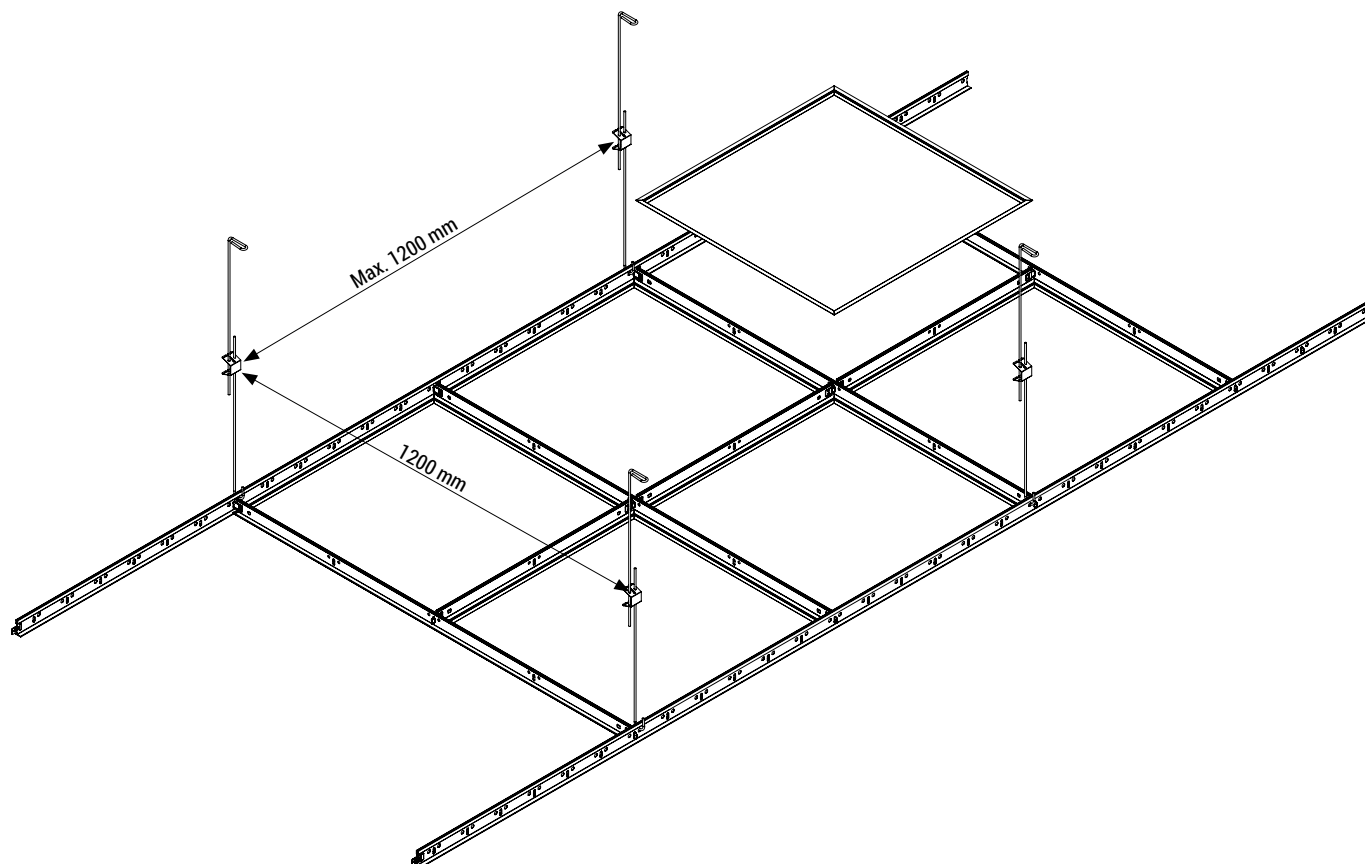


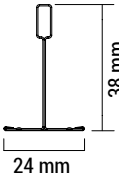
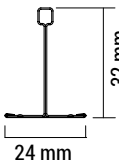
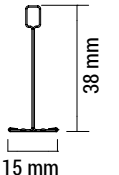
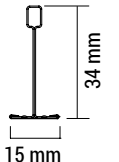
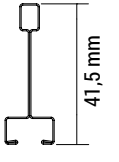
- Galvanized steel panel
- 75x350 mm aluminum thermal diffusers
- Copper pipe coil Ø 12 mm

➤ System with T24, T15, T15-S crossed structure

Laying on exposed lightweight reversed T-shaped support structure with 24 mm, 15 mm supports or 15 mm support with shadow mold.

This standard structure is lightweight, with an extended diffusion range and is generally used with traditional suspended ceilings. Suspension of the main supports is provided by traditional hanging systems.



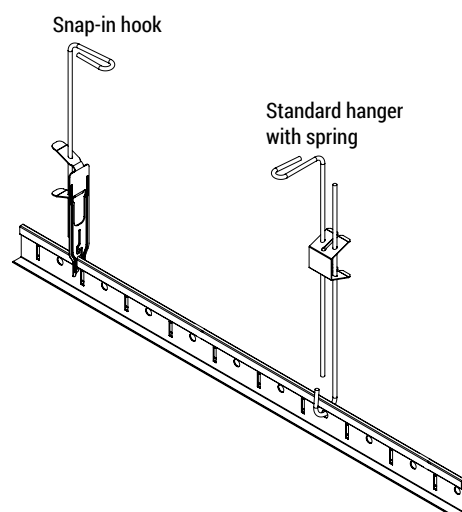
T24 profiles		T15 profiles		T15-S profiles
3700 mm	1200 mm 600 mm	3700 mm	1200 mm 600 mm	3700 mm 1200 mm 600 mm
				
24 mm	24 mm	15 mm	15 mm	

Component incidences

DESCRIPTION	INCIDENCE*
Panel	2,78 pcs/m ²
Edge profile	1 m/m ²
Hanging system	1 pc/m ²
Primary profile	0,85 m/m ²
Secondary profile L = 1,2 m	1,70 m/m ²
Secondary profile L = 0,6 m	0,85 m/m ²

* Component incidences for 600 x 600 mm module

Hanging system



Check the center distance and type of hanging system based on the project specific characteristics, the m² load and any aseismic report.

The connections should be verified according to the characteristics of the anchoring base and proper installation so as to not compromise the stability of the suspended ceiling system. Lighting elements, accessories and installations should not bear on the suspended ceiling and use an independent hanging system.

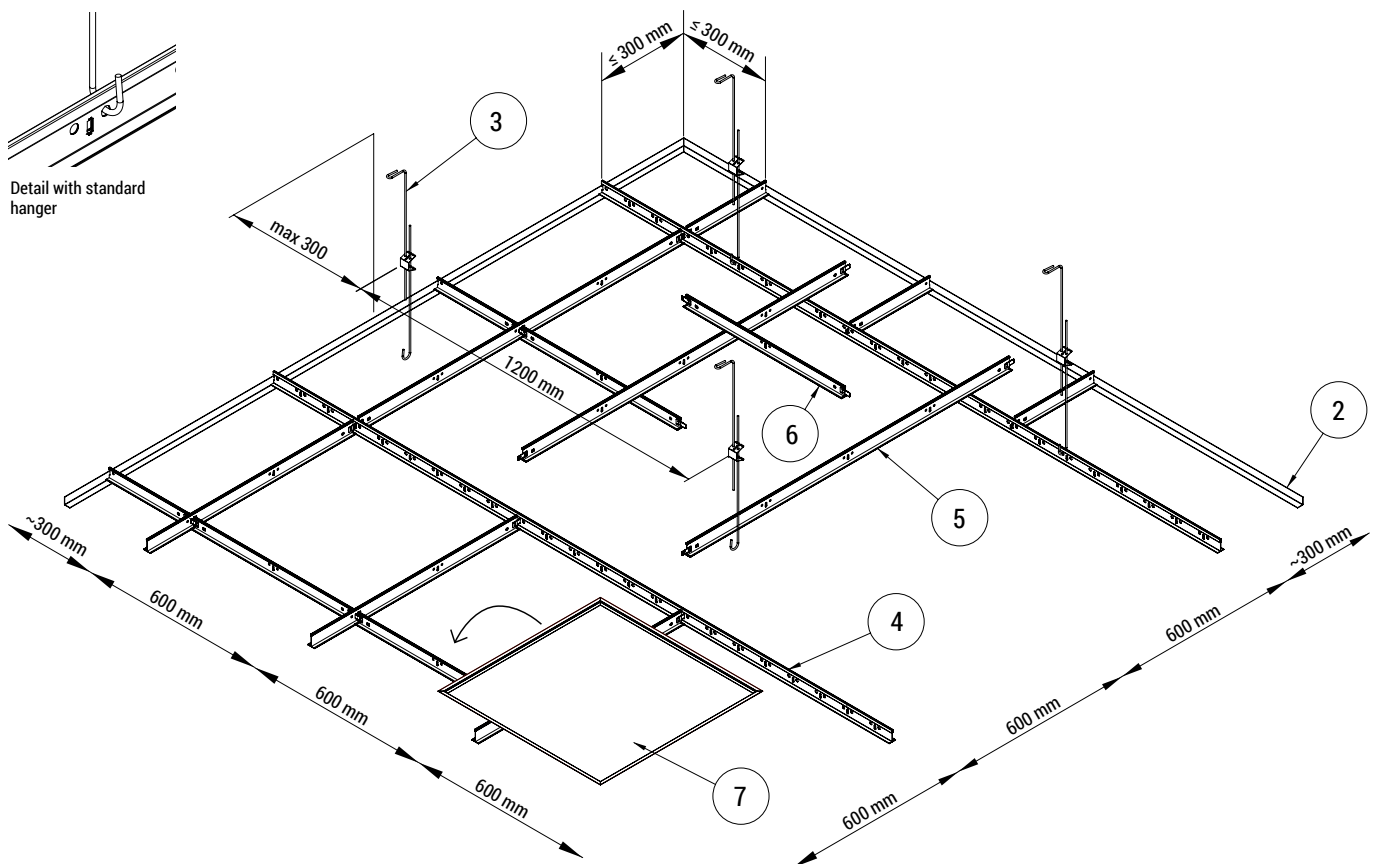
NOTE. For T15 and T15-S profiles "snap-in hooks" are recommended for the suspension system.

➤ Installation

Warp laying

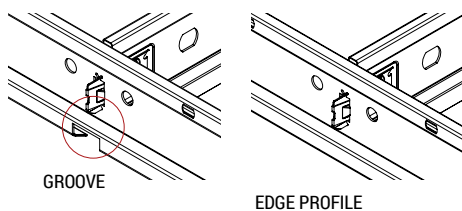
- 1) Mark the edge profiles. Measure the suspended ceiling height with a level and mark it down with the cord.
Lay the primary warp out.
- 2) Install the edge profiles with nails, screws and/or screw anchors suitable for the wall type of material.
- 3) Anchor the suspension system firmly to the slab and fit the hanging system to the 3700 mm support profiles according to the type of suspended ceiling at 800-900 mm.
- 4) Install the primary supports with a 1200 mm center distance.
- 5) Insert the 1200 mm secondary supports.
- 6) Insert the 600 mm secondary supports in the 1200 mm support slot.
- 7) Install the lay-in panels on the grid.

The hangers should be hooked to the 3700 mm primary supports with a 1200 mm and 900 mm center distance.
For proper coupling, hold the left side of the perforated profile and push lightly to snap in the clip.
This will firmly lock the structure.
To unlock, push the clip tab and remove the profile.



Note for T15-S profile

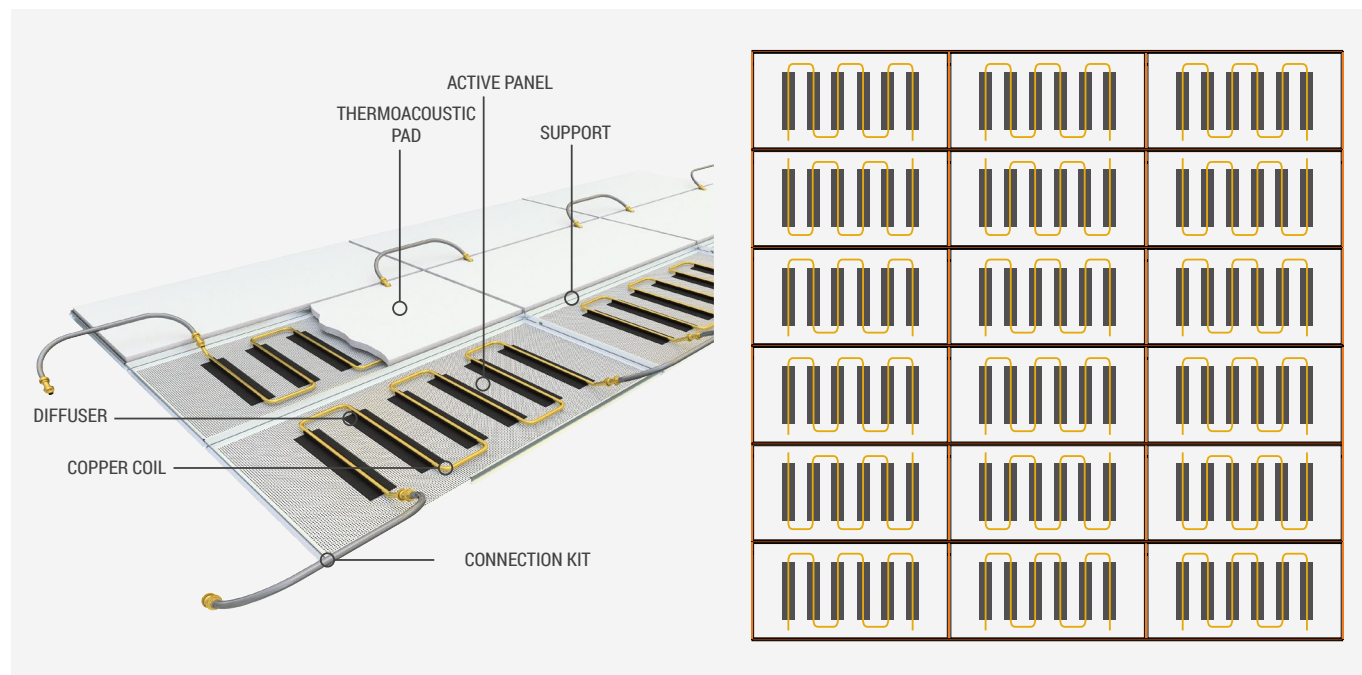
Primary supports used as edge profiles can be provided with the groove only on one side for a more appealing finish.



Closing the radiant surface

Once the hydraulic connection and the seal test are completed (as described in datasheet 0414EN), the radiant surface must be closed with inactive compensation panels.

The side finish can include passive panels cut to measure or, as an alternative, plasterboard panels which provide greater design freedom.



▶ Panel-panel hydraulic connections



The panels are connected one to the other using the K85RS flexible pipe (length 900 mm), consisting of a flexible pipe with anti-oxygen barrier, stainless steel mesh sleeve and two push-fittings.

▶ Panel-manifold hydraulic connections



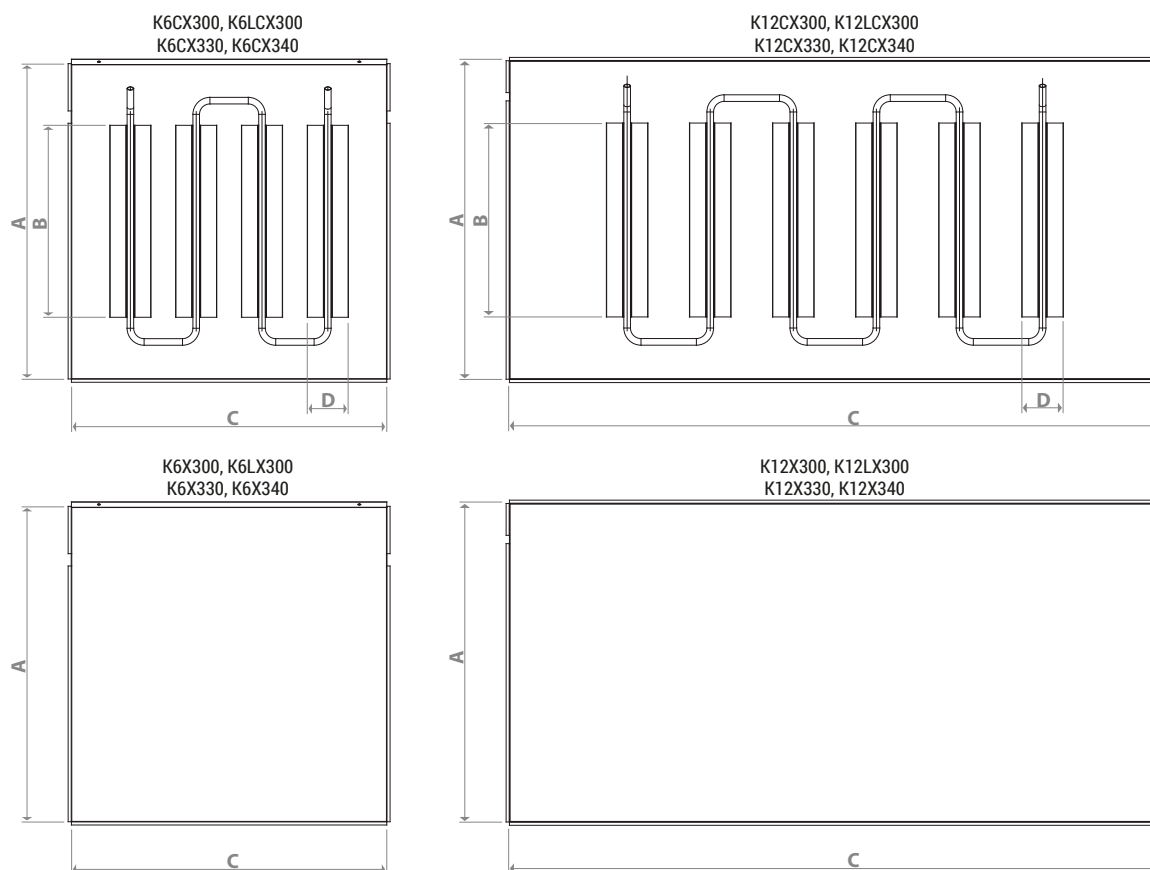
To connect the distribution manifold to the panels, use the K85RS flexible pipe (length 900 mm), consisting of a flexible pipe with anti-oxygen barrier and stainless steel mesh, plus a 12 mm push-fitting on one side and a 1/2" F fitting on the other.

Installation of the RC107 push-fitting (1/2" M x 16 mm) enables to connect the Ø16 x 1,5 mm plastic pipe.

⚠ WARNING. Connections made with RC push-fittings are irreversible.

The terminal section with the plastic pipe must be completed with an RC900 reinforcement bush before inserting it into the RC push-fitting.

➤ Dimensions



SERIES	PRODUCT CODE	TYPE	A [mm]	B [mm]	C [mm]	D [mm]
GK Classic T24	K6X300	Inactive	575	-	575	-
	K6CX300	Active	575	350	575	75
	K6LX300	Inactive	575	-	575	-
	K6LCX300	Active	575	350	575	75
	K12X300	Inactive	575	-	1175	-
	K12CX300	Active	575	350	1175	75
	K12LX300	Inactive	575	-	1175	-
	K12LCX300	Active	575	350	1175	75
GK Classic T15	K6X330	Inactive	584	-	584	-
	K6CX330	Active	584	350	584	75
	K12X330	Inactive	584	-	1184	-
	K12CX330	Active	584	350	1184	75
GK Classic T15-S	K6X340	Inactive	584	-	584	-
	K6CX340	Active	584	350	584	75
	K12X340	Inactive	584	-	1184	-
	K12CX340	Active	584	350	1184	75

Product specifications

GK CLASSIC T24

K6X300

Inactive perforated panel consisting of a RAL 9003 post-varnished galvanized steel sheet, for laying on 24 mm T-shaped structure. The panels are suspended using two wires fixed to the T-shaped support structure. 600x600 mm suspended ceiling modules. Panel dimensions 575x575 mm. Panel thickness: 0,6 mm. Empty weight: 1,5 kg.

K6CX300

Active perforated panel consisting of a RAL 9003 post-varnished galvanized steel sheet, for laying on 24 mm T-shaped structure. Activation with four 75x350 mm anodized aluminum thermal diffusers. Hydraulic circuit with 12 mm copper pipe coil. The panels are suspended using two wires fixed to the T-shaped support structure. 600x600 mm suspended ceiling modules. Panel dimensions 575x575 mm. Panel thickness: 0,6 mm. Empty weight: 3,3 kg.

K6LX300

Inactive perforated panel consisting of a RAL 9003 post-varnished galvanized steel sheet, for laying on 24 mm T-shaped structure. The panels are suspended using two wires fixed to the T-shaped support structure. 600x600 mm suspended ceiling modules. Panel dimensions 575x575 mm. Panel thickness: 0,6 mm. Empty weight: 1,7 kg.

K6LCX300

Active perforated panel consisting of a RAL 9003 post-varnished galvanized steel sheet, for laying on 24 mm T-shaped structure. Activation with four 75x350 mm anodized aluminum thermal diffusers. Hydraulic circuit with 12 mm copper pipe coil. The panels are suspended using two wires fixed to the T-shaped support structure. 600x600 mm suspended ceiling modules. Panel dimensions 575x575 mm. Panel thickness: 0,6 mm. Empty weight: 3,5 kg.

K12X300

Inactive perforated panel consisting of a RAL 9003 post-varnished galvanized steel sheet, for laying on 24 mm T-shaped structure. The panels are suspended using two wires fixed to the T-shaped support structure. 600x1200 mm suspended ceiling modules. Panel dimensions 575x1175 mm. Panel thickness: 0,6 mm. Empty weight: 2,9 kg.

K12CX300

Active perforated panel consisting of a RAL 9003 post-varnished galvanized steel sheet, for laying on 24 mm T-shaped structure. Activation consisting of six 75x350 mm anodized aluminum thermal diffusers. Hydraulic circuit with 12 mm copper pipe coil. The panels are suspended using two wires fixed to the T-shaped support structure. 600x1200 mm suspended ceiling modules. Panel dimensions 575x1175 mm. Panel thickness: 0,6 mm. Empty weight: 5,4 kg.

K12LX300

Inactive perforated panel consisting of a RAL 9003 post-varnished galvanized steel sheet, for laying on 24 mm T-shaped structure. The panels are suspended using two wires fixed to the T-shaped support structure. 600x1200 mm suspended ceiling modules. Panel dimensions 575x1175 mm. Panel thickness: 0,6 mm. Empty weight: 3,4 kg.

K12LCX300

Active perforated panel consisting of a RAL 9003 post-varnished galvanized steel sheet, for laying on 24 mm T-shaped structure. Activation consisting of six 75x350 mm anodized aluminum thermal diffusers. Hydraulic circuit with 12 mm copper pipe coil. The panels are suspended using two wires fixed to the T-shaped support structure. 600x1200 mm suspended ceiling modules. Panel dimensions 575x1175 mm. Panel thickness: 0,6 mm. Empty weight: 5,9 kg.

GK CLASSIC T15

K6X330

Inactive perforated panel consisting of a RAL 9003 post-varnished galvanized steel sheet, for laying on 15 mm T-shaped structure. The panels are suspended using two wires fixed to the T-shaped support structure. 600x600 mm suspended ceiling modules. Panel dimensions 584x584 mm. Panel thickness: 0,6 mm. Empty weight: 1,6 kg.

K6CX330

Active perforated panel consisting of a RAL 9003 post-varnished galvanized steel sheet, for laying on 15 mm T-shaped structure. Activation with four 75x350 mm anodized aluminum thermal diffusers. Hydraulic circuit with 12 mm copper pipe coil. The panels are suspended using two wires fixed to the T-shaped support structure. 600x600 mm suspended ceiling modules. Panel dimensions 584x584 mm. Panel thickness: 0,6 mm. Empty weight: 3,4 kg.

K12X330

Inactive perforated panel consisting of a RAL 9003 post-varnished galvanized steel sheet, for laying on 15 mm T-shaped structure. The panels are suspended using two wires fixed to the T-shaped support structure. 600x1200 mm suspended ceiling modules. Panel dimensions 584x1184 mm. Panel thickness: 0,6 mm. Empty weight: 3,0 kg.

K12CX330

Active perforated panel consisting of a RAL 9003 post-varnished galvanized steel sheet, for laying on 15 mm T-shaped structure. Activation consisting of six 75x350 mm anodized aluminum thermal diffusers. Hydraulic circuit with 12 mm copper pipe coil. The panels are suspended using two wires fixed to the T-shaped support structure. 600x1200 mm suspended ceiling modules. Panel dimensions 584x1184 mm. Panel thickness: 0,6 mm. Empty weight: 5,5 kg.

GK CLASSIC T15-S

K6X340

Inactive perforated panel consisting of a RAL 9003 post-varnished galvanized steel sheet, for laying on 15 mm T-shaped structure with shadow mold. The panels are suspended using two wires fixed to the T-shaped support structure. 600x600 mm suspended ceiling modules. Panel dimensions 584x584 mm. Panel thickness: 0,6 mm. Empty weight: 1,6 kg.

K6CX340

Active perforated panel consisting of a RAL 9003 post-varnished galvanized steel sheet, for laying on 15 mm T-shaped structure with shadow mold. Activation with four 75x350 mm anodized aluminum thermal diffusers. Hydraulic circuit with 12 mm copper pipe coil. The panels are suspended using two wires fixed to the T-shaped support structure. 600x600 mm suspended ceiling modules. Panel dimensions 584x584 mm. Panel thickness: 0,6 mm. Empty weight: 3,4 kg.

K12X340

Inactive perforated panel consisting of a RAL 9003 post-varnished galvanized steel sheet, for laying on 15 mm T-shaped structure with shadow mold. The panels are suspended using two wires fixed to the T-shaped support structure. 600x1200 mm suspended ceiling modules. Panel dimensions 584x1184 mm. Panel thickness: 0,6 mm. Empty weight: 3,0 kg.

K12CX340

Active perforated panel consisting of a RAL 9003 post-varnished galvanized steel sheet, for laying on 15 mm T-shaped structure with shadow mold. Activation consisting of six 75x350 mm anodized aluminum thermal diffusers. Hydraulic circuit with 12 mm copper pipe coil. The panels are suspended using two wires fixed to the T-shaped support structure. 600x1200 mm suspended ceiling modules. Panel dimensions 584x1184 mm. Panel thickness: 0,6 mm. Empty weight: 5,5 kg.

⚠ Safety Warning. Installation, commissioning and periodical maintenance of the product must be carried out by qualified operators in compliance with national regulations and/or local standards. A qualified installer must take all required measures, including use of Individual Protection Devices, for his and others' safety. An improper installation may damage people, animals or objects towards which Giacomini S.p.A. may not be held liable.

♻ Package Disposal. Carton boxes: paper recycling. Plastic bags and bubble wrap: plastic recycling.

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