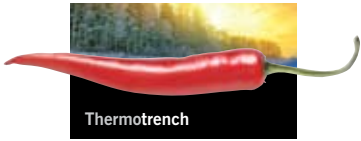


Energy efficient system convectors prevent cold-air induced draughts, enabling energy-efficient room heating within target heating ranges.



Thermogroupuk

SUSTAINABLE HEATING SOLUTIONS



System convectors (trench heating)

Cold Air Shield

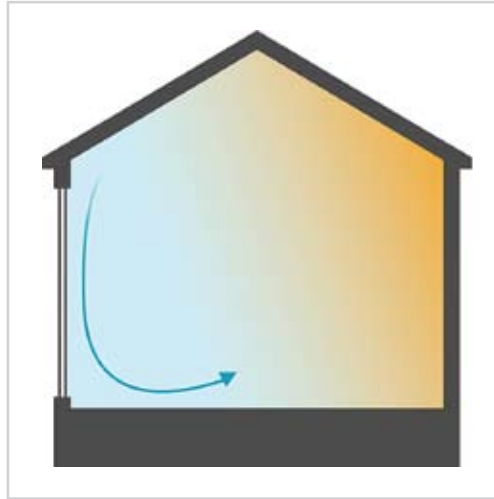
System Convectors screen off the cold air flowing from the window surface (cold wall effect) by creating first a warm barrier in front of the window surface, and secondly by inducing a stream of warm air which rises into the room. This eliminates the uncomfortable cold-air-induced draft, and additionally prevents the window from steaming up.

Energy Efficient

System Convectors ideally satisfy short-term or transitional heating demands. This insures that tailor-made, energy-efficient room heating systems operate efficiently within their target heating range.

Instantaneous Heat

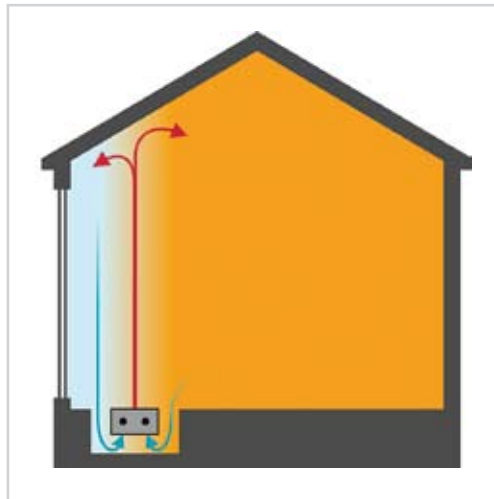
System Convectors provide a very rapid heat emission, due to a low mass of the heating medium (rapid warm-up). The advantages of System Convectors are particularly effective when combined with another heating source such as an underfloor heating system, which by design would not combat the cold front presented by large glazed areas.



Problem:

Movement of cold air due to cold window surfaces

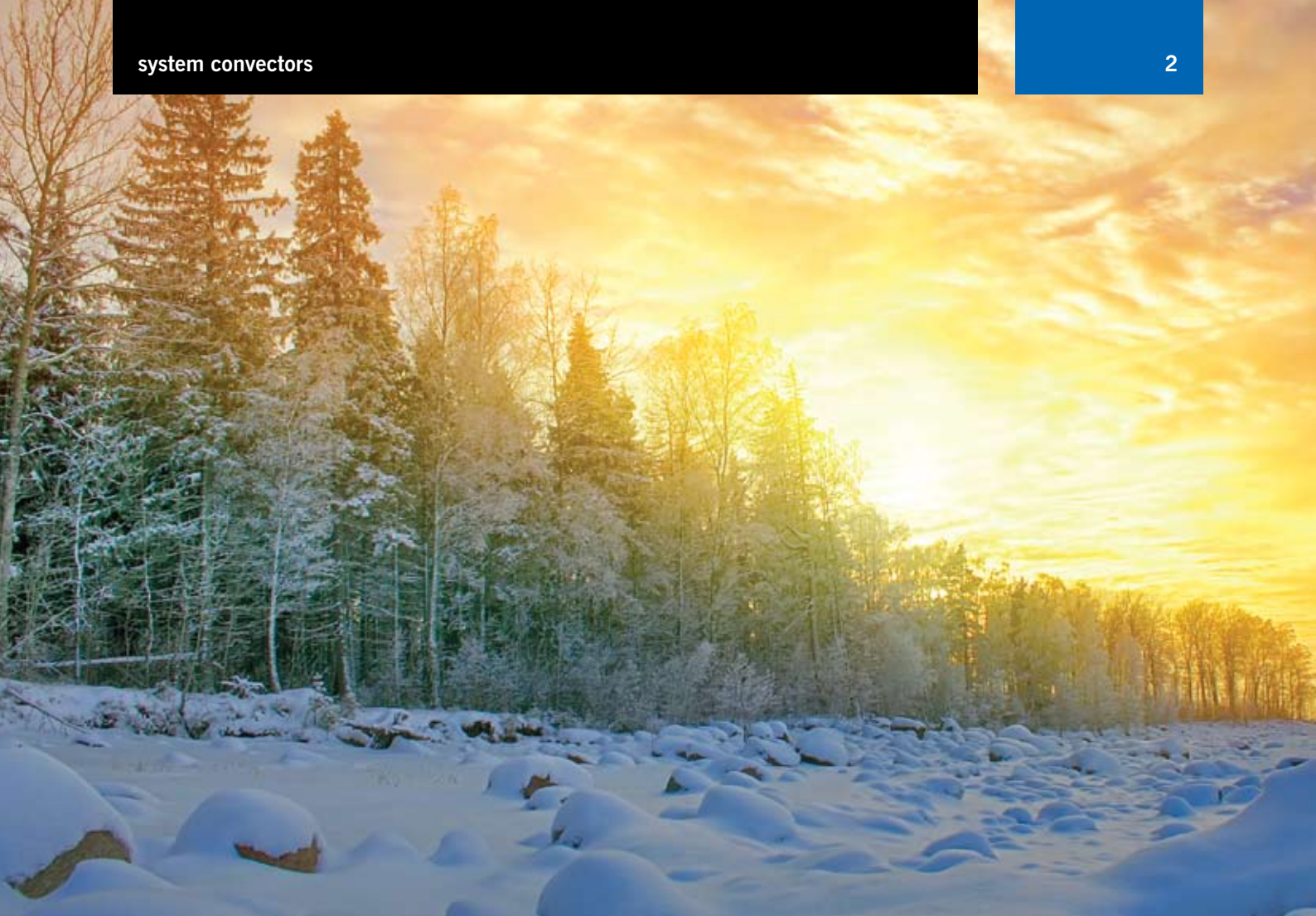
Air cools on contact with the window surface, slides down to the floor, and is distributed evenly in the room. This distribution of cold air induces a draft at floor level, leading to discomfort.



Solution:

System Convectors screen-off cold air, preventing the cold-air-induced draft that rapidly decreases room temperature

The cold air sliding to the floor from the window reaches the convector, and is warmed. A barrier of warm air rises in front of the window surface, and the stream of warm air rising in the room creates a natural convection action.



Thermotrench			
STOCK NO	DESCRIPTION	WIDTH	UNIT
3600	Thermotrench ESK electric	180mm	lm
3601	Thermotrench WSK warm water	180mm	lm
3602	Thermotrench WSK warm water	260mm	lm
3603	Roll-up grille DR15 stainless steel	180mm	lm
3604	Roll-up grille DR15 stainless steel	260mm	lm
3605	Z-frame to house DR15		lm

Maximum Output at Low Inlet Temperatures

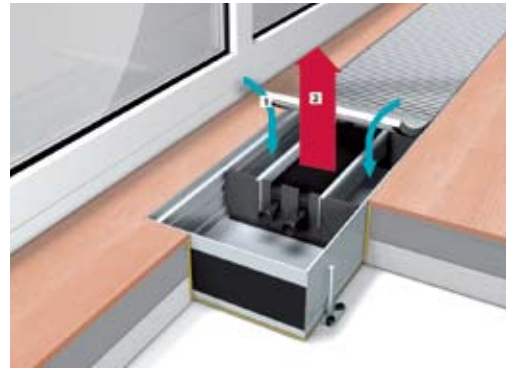
In the lower temperature range, the fan-assisted System Convector can be used to meet the heat demands. The principle of forced convection considerably increases the systems heating efficiency. **Please ask our Sales Department for further information on our fan-assisted system convectors.**

Complete Room Heating

Unlike conventional radiators, System Convectors can be installed in a space-saving manner anywhere in the room and do not block the views of large windows or obstruct furniture placement or movement. System Convectors are the perfect heating solution for obstruction-free use next to full-length windows. The efficient energy concerns of modern building styles allow System Convectors to be implemented as complete room heating systems.

Warm water system convector

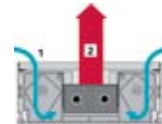
Model	Height	Heat Output	Width	Standard Lengths
WSK 180	90mm	146 to 926 W	180mm	1000mm
Warm-Water System Convectors		215 to 1359 W 282 to 1786 W 364 to 2304 W	260mm 320mm 410mm	to 5000mm (in 250mm increments)
Description & Function	Supporting Control Technology	Areas of Application		
<ul style="list-style-type: none"> • Cold air barrier in front of window surfaces • Non-fogging windows • For covering the remaining heat demand in the room when combined with other heating systems (e.g. under-floor heating systems) • For full heating of rooms • Ready to install in floor paving areas • Optimum heating performance due to even temperature layering 	<ul style="list-style-type: none"> • Alpha-Thermostat 230V/24V as Standard/Comfort/Control • Alpha-Thermostat 0-10V • Alpha-Actuator 4 24V/230V/0-10V • Electrical box with prepared wiring 	<ul style="list-style-type: none"> • Private living areas • Conservatories • Restaurants • Shops • Showrooms • Office and administration buildings 		



Convection Principle

Natural convection (heating)

- 1 cooled air (cold air gradient)
- 2 heated air warms room and creates a barrier against cold drafts



Electric System Convector

Model	Height	Heat Output	Width	Standard Lengths
ESK 180	140mm	220 to 1440 W	180mm	750mm to 5000mm
Electric System Convectors				(in 250mm increments) 1500mm to 4000mm (in 500mm increments)
Description & Function	Supporting Control Technology	Areas of Application		
<ul style="list-style-type: none"> • Cold air barrier in front of window surfaces • Non-fogging windows • For covering the remaining heat demand in the room when combined with other heating systems (e.g. under-floor heating systems) • For full heating of rooms • Ready to install in floor paving areas • Optimum heating performance due to even temperature layering 	<ul style="list-style-type: none"> • Alpha-Thermostat 230V/24V as Standard/Comfort/Control • Alpha-Power Module ALM 22 	<ul style="list-style-type: none"> • Private living areas • Conservatories • Restaurants • Shops • Showrooms • Office and administration buildings 		



Convection Principle

Natural convection (heating)

- 1 cooled air (cold air gradient)
- 2 heated air warms room and creates a barrier against cold drafts

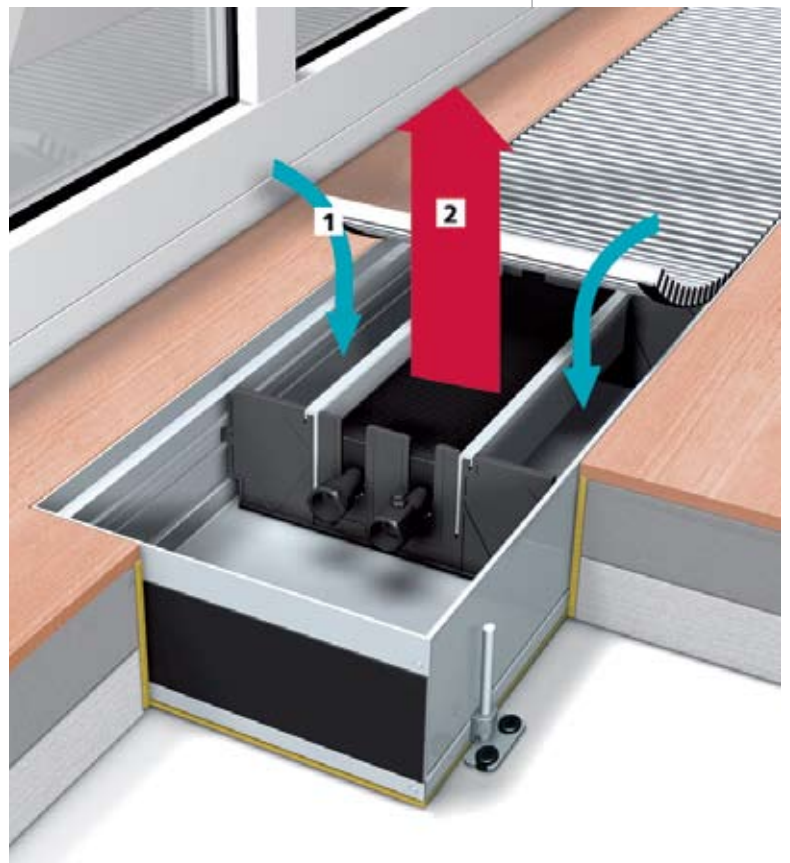


System Convectors screen off cold air, preventing the cold-air-induced draft that rapidly decreases room temperature. The cold air moving to the floor from the window reaches the convector, and is warmed. A **barrier of warm air** rises in front of the window surface and the stream of warm air rising in the room creates a natural convection action. System Convectors can be installed in a **space-saving** manner anywhere in the room.



Advantages at a glance

- UNOBTRUSIVE, SLEEK DESIGN
- RANGE OF GRILLES AVAILABLE
- ELECTRIC AND HOT WATER VERSIONS AVAILABLE
- REDUCE OVERALL HEAT LOSSES
- GREATER EFFICIENCY IN PROPERTY MANAGEMENT
- IDEAL FOR COMMERCIAL GLAZED AREAS OR CONSERVATORIES
- MINIMUM DEPTH 90MM REQUIRED
- EASY TO CLEAN AND MAINTAIN



contact

For more information about Thermotrench please call our sales team on 08700 41 21 41



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SUSTAINABLE HEATING SOLUTIONS