

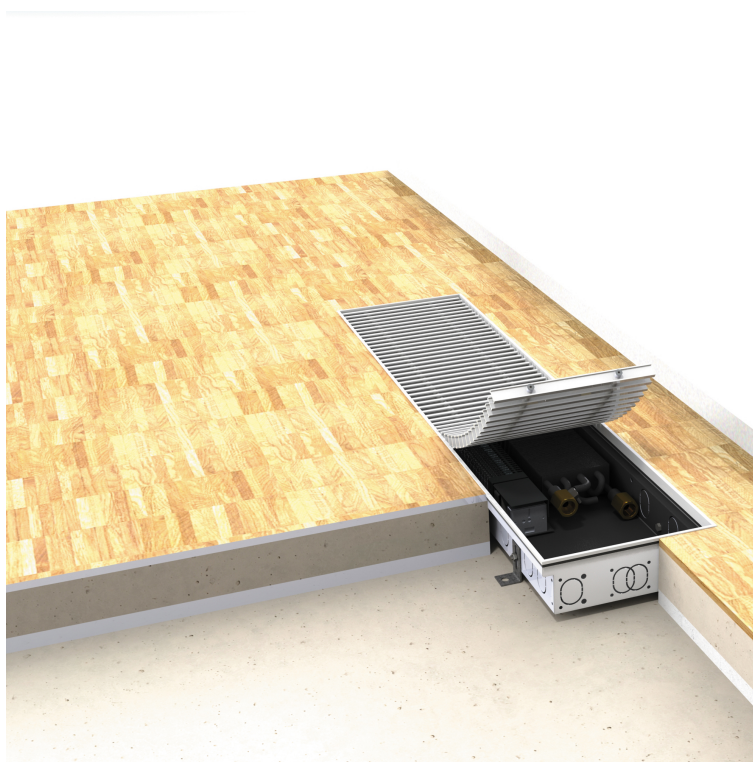
Product Data Sheet

12/9/2024

Convectors & Fan Coils

Aquilo F1S

Romania - Purmo



- Optimized heating efficiency.
- Low-noise operation.
- Versatile application.
- Robust construction.
- Discreet integration.

Description

The Trench F1S floor convector is engineered for optimal heating performance in spaces with significant glass areas. It includes a copper and aluminum heat exchanger, supported by low-noise fans, which increase airflow and thermal efficiency. The unit operates on 24V motors with electrical control achieved through room thermostats. The convector is encased in a galvanized steel tub, painted black. It is suitable for residential, commercial, and healthcare facilities, offering a discreet yet powerful heating solution.

Area of Application

Trench F1S is ideal for heating residential homes, exhibition halls, theaters, hospitals, and gyms, especially in spaces with large glass surfaces. It features forced convection with fan support, copper and aluminum heat exchanger, operates at a maximum pressure of 10 bar, a max temperature of 110°C, and is electrically controlled through room thermostats.

Selection Criteria

To determine the suitable Trench F1S model, use our performance calculator or brochure. For assistance, use our design service.

Basic User Instructions

Install the convector in a prepared subfloor space with specified dimensions. Secure leveling bolts, and fit floor fixing brackets. Position the convector, add soundproofing insulation, and level the duct. Connect feed and return pipes and electrical wiring. Test for leaks. Keep the unit covered during construction and clean before finalizing. Unroll the decorative grille once installation is complete.

Prescription text specifiers

The Trench F1S convector offers forced convection with fan assistance and an integrated transformer. Designed with copper and aluminum heat exchangers, it provides high thermal efficiency. Available in various dimensions with a galvanized, double-sided steel tub, black-coated as standard, and optional stainless steel. It includes quiet fans, 24-V motors, controlled electrically via room thermostats and transformers located within the tub. The unit supports maximum operating pressure of 10 bar and temperatures up to 110°C. Suitable for residential, commercial, and institutional applications, particularly those with large glazing, providing optimal and unobtrusive heating.

Warranty

Specification

Feature	Unit	Value
Etim Class		EC003531 - Convector pit complete without grid
Material pit		Steel
Material, grid frame		Other
Material heat exchanger		Aluminium/copper
Heat exchanger position		Wall
Outer length	Millimetre (mm)	700, 800, 900, 1000, 1100 ... 2400, 2500, 2600, 2800, 3000
Outer width	Millimetre (mm)	170, 200, 230, 250
Outer depth	Millimetre (mm)	75, 110
Length grid frame	Millimetre (mm)	700, 800, 900, 1000, 1100 ... 2400, 2500, 2600, 2800, 3000
Width grid frame	Millimetre (mm)	170, 200, 230, 250
Height grid frame	Millimetre (mm)	75, 110
Heat emission according to EN 442 20 °C Watt (W) - 75/65		342, 506, 556, 706, 962 ... 5739, 5989, 6486, 7044, 7820
Heat emission according to EN 442 20 °C Watt (W) - 70/40		220, 326, 358, 454, 619 ... 3692, 3853, 4173, 4532, 5031
Wall thickness	Millimetre (mm)	0.75
N-exponent		1.05
With dynamic power booster		No
Max. operating pressure	Bar (bar)	10
Water content	Litre (l)	0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1, 1.1, 1.2
Number of standard connections		2
Connection 7, right side low		Inlet/outlet flow
With connection pipes		Yes
With de-aeration connection		Yes
With de-aerator		Yes
With drain possibility (connection)		No
With drain valve		No
Watertight pit		Yes
Material division plate		Steel
Item weight	Kilogram (kg)	5.5, 6, 6.5, 7, 7.5 ... 25.5, 26, 27.5, 28, 30.5

Resources

Document Description	Document Type	Link
----------------------	---------------	------

Items

Local Code	Global Item Code	Item Description
6708797	FHRF1S01707008N1	F1S 170x0700x075
6708798	FHRF1S01708008N1	F1S 170x0800x075
6708799	FHRF1S01709008N1	F1S 170x0900x075
6708800	FHRF1S01710008N1	F1S 170x1000x075
6708801	FHRF1S01711008N1	F1S 170x1100x075
6708802	FHRF1S01712008N1	F1S 170x1200x075
6708803	FHRF1S01713008N1	F1S 170x1300x075
6708804	FHRF1S01714008N1	F1S 170x1400x075
6708805	FHRF1S01715008N1	F1S 170x1500x075
6708806	FHRF1S01716008N1	F1S 170x1600x075
6708807	FHRF1S01718008N1	F1S 170x1800x075
6708808	FHRF1S01720008N1	F1S 170x2000x075
6708809	FHRF1S01722008N1	F1S 170x2200x075
6708810	FHRF1S01724008N1	F1S 170x2400x075
6708811	FHRF1S01725008N1	F1S 170x2500x075
6708812	FHRF1S01726008N1	F1S 170x2600x075
6708813	FHRF1S01728008N1	F1S 170x2800x075
6708814	FHRF1S01730008N1	F1S 170x3000x075
6708815	FHRF1S02007008N1	F1S 200x0700x075
6708816	FHRF1S02008008N1	F1S 200x0800x075
6708817	FHRF1S02009008N1	F1S 200x0900x075
6708818	FHRF1S02010008N1	F1S 200x1000x075
6708819	FHRF1S02011008N1	F1S 200x1100x075
6708820	FHRF1S02012008N1	F1S 200x1200x075
6708821	FHRF1S02013008N1	F1S 200x1300x075
6708822	FHRF1S02014008N1	F1S 200x1400x075
6708823	FHRF1S02015008N1	F1S 200x1500x075
6708824	FHRF1S02016008N1	F1S 200x1600x075
6708825	FHRF1S02018008N1	F1S 200x1800x075
6708826	FHRF1S02020008N1	F1S 200x2000x075
6708827	FHRF1S02022008N1	F1S 200x2200x075
6708828	FHRF1S02024008N1	F1S 200x2400x075
6708829	FHRF1S02025008N1	F1S 200x2500x075
6708830	FHRF1S02026008N1	F1S 200x2600x075
6708831	FHRF1S02028008N1	F1S 200x2800x075

Local Code	Global Item Code	Item Description
6708832	FHRF1S02030008N1	F1S 200x3000x075
6708833	FHRF1S02307008N1	F1S 230x0700x075
6708834	FHRF1S02307011N1	F1S 230x0700x110
6708835	FHRF1S02308008N1	F1S 230x0800x075
6708836	FHRF1S02308011N1	F1S 230x0800x110
6708837	FHRF1S02309008N1	F1S 230x0900x075
6708838	FHRF1S02309011N1	F1S 230x0900x110
6708839	FHRF1S02310008N1	F1S 230x1000x075
6708840	FHRF1S02310011N1	F1S 230x1000x110
6708841	FHRF1S02311008N1	F1S 230x1100x075
6708842	FHRF1S02311011N1	F1S 230x1100x110
6708843	FHRF1S02312008N1	F1S 230x1200x075
6708844	FHRF1S02312011N1	F1S 230x1200x110
6708845	FHRF1S02313008N1	F1S 230x1300x075
6708846	FHRF1S02313011N1	F1S 230x1300x110
6708847	FHRF1S02314008N1	F1S 230x1400x075
6708848	FHRF1S02314011N1	F1S 230x1400x110
6708849	FHRF1S02315008N1	F1S 230x1500x075
6708850	FHRF1S02315011N1	F1S 230x1500x110
6708851	FHRF1S02316008N1	F1S 230x1600x075
6708852	FHRF1S02316011N1	F1S 230x1600x110
6708853	FHRF1S02318008N1	F1S 230x1800x075
6708854	FHRF1S02318011N1	F1S 230x1800x110
6708855	FHRF1S02320008N1	F1S 230x2000x075
6708856	FHRF1S02320011N1	F1S 230x2000x110
6708857	FHRF1S02322008N1	F1S 230x2200x075
6708858	FHRF1S02322011N1	F1S 230x2200x110
6708859	FHRF1S02324008N1	F1S 230x2400x075
6708860	FHRF1S02324011N1	F1S 230x2400x110
6708861	FHRF1S02325008N1	F1S 230x2500x075
6708862	FHRF1S02325011N1	F1S 230x2500x110
6708863	FHRF1S02326008N1	F1S 230x2600x075
6708864	FHRF1S02326011N1	F1S 230x2600x110
6708865	FHRF1S02328008N1	F1S 230x2800x075
6708866	FHRF1S02328011N1	F1S 230x2800x110
6708867	FHRF1S02330008N1	F1S 230x3000x075
6708868	FHRF1S02330011N1	F1S 230x3000x110
6708869	FHRF1S02507011N1	F1S 250x0700x110
6708870	FHRF1S02508011N1	F1S 250x0800x110
6708871	FHRF1S02509011N1	F1S 250x0900x110
6708872	FHRF1S02510011N1	F1S 250x1000x110

Local Code	Global Item Code	Item Description
6708873	FHRF1S02511011N1	F1S 250x1100x110
6708874	FHRF1S02512011N1	F1S 250x1200x110
6708875	FHRF1S02513011N1	F1S 250x1300x110
6708876	FHRF1S02514011N1	F1S 250x1400x110
6708877	FHRF1S02515011N1	F1S 250x1500x110
6708878	FHRF1S02516011N1	F1S 250x1600x110
6708879	FHRF1S02518011N1	F1S 250x1800x110
6708880	FHRF1S02520011N1	F1S 250x2000x110
6708881	FHRF1S02522011N1	F1S 250x2200x110
6708882	FHRF1S02524011N1	F1S 250x2400x110
6708883	FHRF1S02525011N1	F1S 250x2500x110
6708884	FHRF1S02526011N1	F1S 250x2600x110
6708885	FHRF1S02528011N1	F1S 250x2800x110
6708886	FHRF1S02530011N1	F1S 250x3000x110