

ECO
VEN 

FAN COIL

TRENCH TYPE
SERIES III

ECO-VEN VENTILATION EQUIPMENT
A BRAND OF ECO GLOBAL INDUSTRIES

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TRENCH

FAN COIL UNITS

Suitable for high-rise buildings with floor to ceiling glazed panels. Explore to find our solution for trench convectors, most suited for architecturally ambitious structures with fully glazed panels

ULTRA ELEGANT

Available in heating-only mode and heating & cooling mode, our trench convectors equipment is available from 900mm to 6000mm, providing capacities from 0.15kW to 18kW heating and 1.4kW to 7kW cooling

1.4kW – 7.0kW

COOLING RANGE

0.15kW – 18.0kW

HEATING RANGE

2-PIPE or 4-PIPE

HEATING OR HEATING & COOLING

900mm – 6000mm

TRENCH LENGTH VARIATIONS

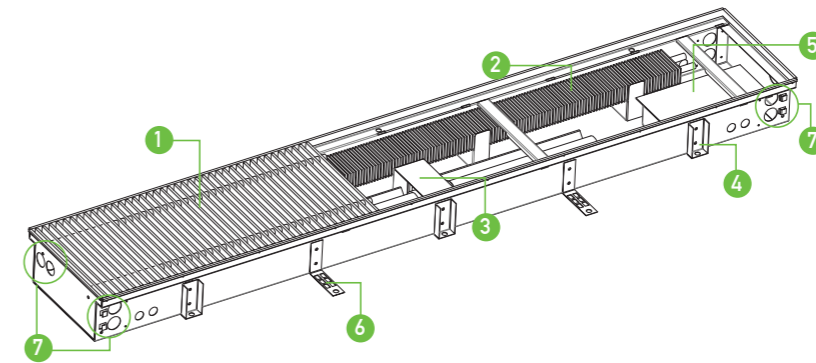
86 – 106 – 188mm

HEIGHTS VARIATIONS

CROSS-FLOW FANS

OPTION AVAILABLE

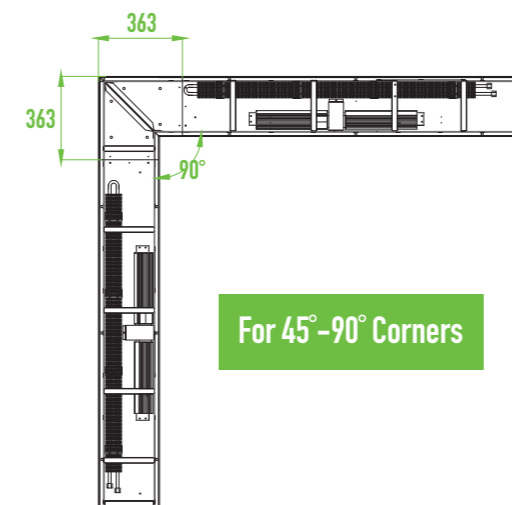
PRODUCT DETAILS



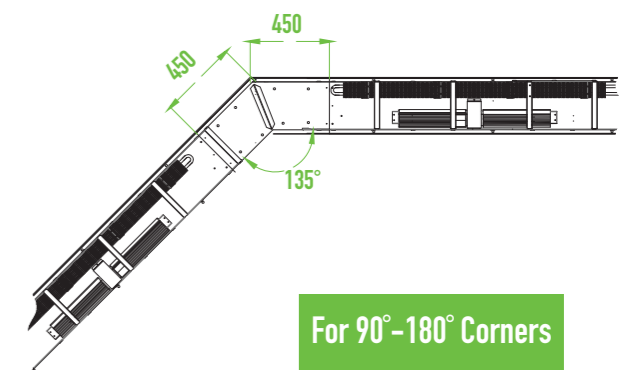
- Vent 1
- Coil 2
- Fan 3
- Height Adjusting Equipment 4
- Electrical Box 5
- Floor Assembly Connection 6
- Water Connection Point Options 7

CORNER APPLICATIONS

It is possible to assemble the trench heater in a most suitable and flexible way in accordance with the setting's allocation and designing requirements. VENTAS trench heaters provide thermal comfort with applications and accessories that adapt to all corners and window/wall curves without making any concessions of the aesthetic appearance.



For 45°-90° Corners



For 90°-180° Corners

Natural Convection Trench Heaters Without Fan EVFT & EVFTN Capacity Tables

Model	Length (mm)			900	1200	1500	1800	2100	2400	2700	3000	3300	3600	3900	4200	4500	4800	5100	5400	5700	6000	
EVTR 2	Width (mm)	212	Height (mm)	85	245	392	553	746	927	1105	1282	1458	1633	1809	1984	2159	2334	2510	2685	2860	3035	3210
EVTR 4		262		85	268	428	619	828	1028	1224	1420	1617	1809	2003	2197	2392	2586	2780	2974	3168	3362	3556
EVTR 6		362		85	411	675	949	1219	1487	1755	2022	2289	2557	2824	3091	3359	3626	3893	4160	4427	4695	4962

Model	Length (mm)			900	1200	1500	1800	2100	2400	2700	3000	3300	3600	3900	4200	4500	4800	5100	5400	5700	6000	
EVTR 2	Width (mm)	212	Height (mm)	106	268	428	619	828	1028	1224	1420	1617	1809	2003	2197	2392	2586	2780	2974	3168	3362	3556
EVTR 4		262		106	299	478	714	946	1172	1395	1617	1839	2060	2282	2503	2724	2946	3167	3388	3609	3831	4052
EVTR 6		362		106	446	739	1037	1331	1624	1917	2209	2501	2793	3086	3378	3670	3962	4254	4546	4839	5131	5423

Forced Convection Trench Heaters with Cross Flow Fans EVFTS & EVFTH Capacity Tables

Model	Length (mm)			900	1200	1500	1800	2100	2400	2700	3000	3300	3600	3900	4200	4500	4800	5100	5400	5700	6000	
EVTR 2	Width (mm)	212	Height (mm)	85	1487	2005	2361	2631	4487	4816	5102	5356	5580	5789	9448	9764	10055	10334	10593	10837	11065	11289
EVTR 4		262		85	2883	3447	3799	4042	7281	7609	7880	8108	8302	8470	14945	15261	15548	15808	16047	16266	16468	16655
EVTR 6		362		85	3309	3832	4136	4336	7986	8270	8497	8684	8837	8970	16292	16564	16806	17024	17221	17400	17563	17707

Model	Length (mm)			900	1200	1500	1800	2100	2400	2700	3000	3300	3600	3900	4200	4500	4800	5100	5400	5700	6000	
EVTR 2	Width (mm)	212	Height (mm)	106	1505	2029	2390	2665	4542	4875	5165	5424	5653	5864	9563	9884	10178	10462	10727	10975	11207	11427
EVTR 4		262		106	2922	3497	3857	4105	7388	7724	8001	8234	8434	8606	15167	15490	15783	16050	16295	16519	16727	16918
EVTR 6		362		106	3358	3892	4204	4409	8114	8405	8639	8830	8990	9125	16554	16833	17083	17307	17510	17694	17861	18015

- Trench heater height in EVTR and VTHVS models is 85 mm.
- Trench heater height in VTHNH and VTHVH models is 106 mm.
- Capacities are given for 20°C room temperature and 80/60°C water regime.
- Heating value is given in Watts.
- Our trench heaters can be produced with a standard of 24 V fan and optionally with a 220 V fan.
- Our trench heaters can be provided with an optional motor-operated valve that provides proportional control, and a thermostat package.

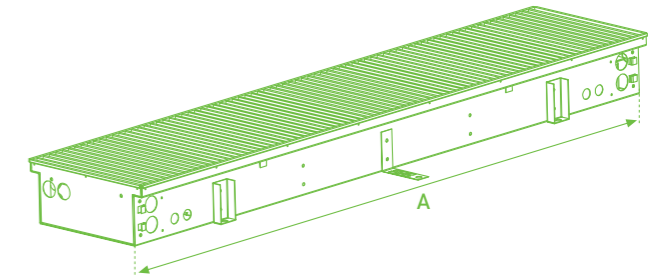
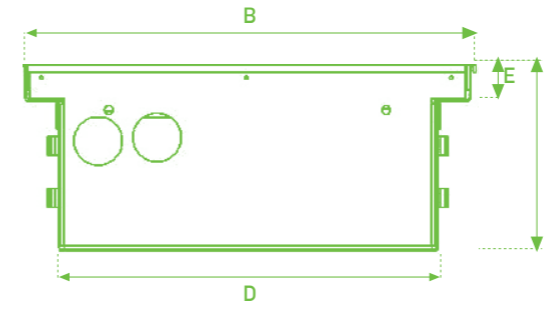
Trench Heater Capacity Table

EVTR Natural Convection Trench Heater Without Fan (85 mm Height)		Room Temperature			
		20°C	21°C	22°C	24°C
In/Out Water Temperature °C	90/70°C	1.29	1.27	1.23	1.17
	85/65°C	1.14	1.11	1.08	1.03
	80/60°C	1	0.97	0.94	0.88
	70/50°C	0.72	0.69	0.67	0.62
	60/40°C	0.47	0.45	0.43	0.39
	50/40°C	0.36	0.34	0.32	0.27

VTHNH Natural Convection Trench Heater Without Fan (106 mm Height)		Room Temperature			
		20°C	21°C	22°C	24°C
In/Out Water Temperature °C	90/70°C	1.24	1.21	1.18	1.14
	85/65°C	1.12	1.09	1.07	1.02
	80/60°C	1	0.97	0.94	0.88
	70/50°C	0.71	0.69	0.66	0.61
	60/40°C	0.47	0.45	0.43	0.38
	50/40°C	0.36	0.34	0.32	0.29

VTHNH Natural Convection Trench Heater Without Fan (106 mm Height)		Room Temperature			
		20°C	21°C	22°C	24°C
In/Out Water Temperature °C	90/70°C	1.19	1.18	1.16	1.12
	85/65°C	1.1	1.08	1.06	1.03
	80/60°C	1	0.98	0.96	0.93
	70/50°C	0.81	0.79	0.77	0.73
	60/40°C	0.61	0.59	0.57	0.54
	50/40°C	0.51	0.49	0.47	0.44

Trench Heater Dimensions



MODEL	DIMENSIONS (mm)									
	A Length	B - Upper Width			C Height	D - Lower Width			E Upper Thickness	Water Connection Diameter
		EVTR2	EVTR4	EVTR6		EVTR2	EVTR4	EVTR6		
EVTR / 85	900	212	262	362	85	172	222	322	13.4	1/2"
EVTR / 85	1200	212	262	362	85	172	222	322	13.4	1/2"
EVTR / 85	1500	212	262	362	85	172	222	322	13.4	1/2"
EVTR / 85	1800	212	262	362	85	172	222	322	13.4	1/2"
EVTR / 85	2100	212	262	362	85	172	222	322	13.4	1/2"
EVTR / 85	2400	212	262	362	85	172	222	322	13.4	1/2"
EVTR / 85	2700	212	262	362	85	172	222	322	13.4	1/2"
EVTR / 85	3000	212	262	362	85	172	222	322	13.4	1/2"
EVTR / 85	3300	212	262	362	85	172	222	322	13.4	1/2"
EVTR / 85	3600	212	262	362	85	172	222	322	13.4	1/2"
EVTR / 85	3900	212	262	362	85	172	222	322	13.4	1/2"
EVTR / 85	4200	212	262	362	85	172	222	322	13.4	1/2"
EVTR / 85	4500	212	262	362	85	172	222	322	13.4	1/2"
EVTR / 85	4800	212	262	362	85	172	222	322	13.4	1/2"
EVTR / 85	5100	212	262	362	85	172	222	322	13.4	1/2"
EVTR / 85	5400	212	262	362	85	172	222	322	13.4	1/2"
EVTR / 85	5700	212	262	362	85	172	222	322	13.4	1/2"
EVTR / 85	6000	212	262	362	85	172	222	322	13.4	1/2"

- Models without Fan

DIMENSIONS (mm)										
MODEL	A Length	B - Upper Width			C Height	D - Lower Width			E Upper Thickness	Water Connection Diameter
		EVTR2	EVTR4	EVTR6		EVTR2	EVTR4	EVTR6		
EVTR / 85	900	262	362	462	85	222	322	422	13.4	1/2"
EVTR / 85	1200	262	362	462	85	222	322	422	13.4	1/2"
EVTR / 85	1500	262	362	462	85	222	322	422	13.4	1/2"
EVTR / 85	1800	262	362	462	85	222	322	422	13.4	1/2"
EVTR / 85	2100	262	362	462	85	222	322	422	13.4	1/2"
EVTR / 85	2400	262	362	462	85	222	322	422	13.4	1/2"
EVTR / 85	2700	262	362	462	85	222	322	422	13.4	1/2"
EVTR / 85	3000	262	362	462	85	222	322	422	13.4	1/2"
EVTR / 85	3300	262	362	462	85	222	322	422	13.4	1/2"
EVTR / 85	3600	262	362	462	85	222	322	422	13.4	1/2"
EVTR / 85	3900	262	362	462	85	222	322	422	13.4	1/2"
EVTR / 85	4200	262	362	462	85	222	322	422	13.4	1/2"
EVTR / 85	4500	262	362	462	85	222	322	422	13.4	1/2"
EVTR / 85	4800	262	362	462	85	222	322	422	13.4	1/2"
EVTR / 85	5100	262	362	462	85	222	322	422	13.4	1/2"
EVTR / 85	5400	262	362	462	85	222	322	422	13.4	1/2"
EVTR / 85	5700	262	362	462	85	222	322	422	13.4	1/2"
EVTR / 85	6000	262	362	462	85	222	322	422	13.4	1/2"

• Models With Cross Flow Fans

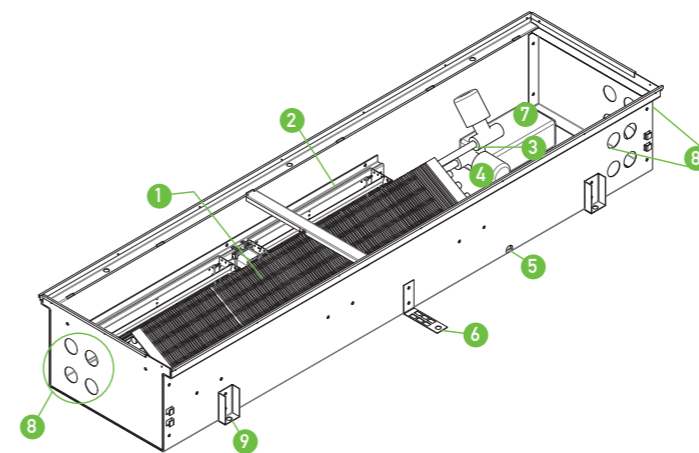
DIMENSIONS (mm)										
MODEL	A Length	B - Upper Width			C Height	D - Lower Width			E Upper Thickness	Water Connection Diameter
		EVTR2	EVTR4	EVTR6		EVTR2	EVTR4	EVTR6		
EVTR / 106	900	212	262	362	106	172	222	322	21.4	1/2"
EVTR / 106	1200	212	262	362	106	172	222	322	21.4	1/2"
EVTR / 106	1500	212	262	362	106	172	222	322	21.4	1/2"
EVTR / 106	1800	212	262	362	106	172	222	322	21.4	1/2"
EVTR / 106	2100	212	262	362	106	172	222	322	21.4	1/2"
EVTR / 106	2400	212	262	362	106	172	222	322	21.4	1/2"
EVTR / 106	2700	212	262	362	106	172	222	322	21.4	1/2"
EVTR / 106	3000	212	262	362	106	172	222	322	21.4	1/2"
EVTR / 106	3300	212	262	362	106	172	222	322	21.4	1/2"
EVTR / 106	3600	212	262	362	106	172	222	322	21.4	1/2"
EVTR / 106	3900	212	262	362	106	172	222	322	21.4	1/2"
EVTR / 106	4200	212	262	362	106	172	222	322	21.4	1/2"
EVTR / 106	4500	212	262	362	106	172	222	322	21.4	1/2"
EVTR / 106	4800	212	262	362	106	172	222	322	21.4	1/2"
EVTR / 106	5100	212	262	362	106	172	222	322	21.4	1/2"
EVTR / 106	5400	212	262	362	106	172	222	322	21.4	1/2"
EVTR / 106	5700	212	262	362	106	172	222	322	21.4	1/2"
EVTR / 106	6000	212	262	362	106	172	222	322	21.4	1/2"

• Models Without Fan

DIMENSIONS (mm)										
MODEL	A Length	B - Upper Width			C Height	D - Lower Width			E Upper Thickness	Water Connection Diameter
		EVTR2	EVTR4	EVTR6		EVTR2	EVTR4	EVTR6		
EVTR / 106	900	262	362	462	106	222	322	422	21.4	1/2"
EVTR / 106	1200	262	362	462	106	222	322	422	21.4	1/2"
EVTR / 106	1500	262	362	462	106	222	322	422	21.4	1/2"
EVTR / 106	1800	262	362	462	106	222	322	422	21.4	1/2"
EVTR / 106	2100	262	362	462	106	222	322	422	21.4	1/2"
EVTR / 106	2400	262	362	462	106	222	322	422	21.4	1/2"
EVTR / 106	2700	262	362	462	106	222	322	422	21.4	1/2"
EVTR / 106	3000	262	362	462	106	222	322	422	21.4	1/2"
EVTR / 106	3300	262	362	462	106	222	322	422	21.4	1/2"
EVTR / 106	3600	262	362	462	106	222	322	422	21.4	1/2"
EVTR / 106	3900	262	362	462	106	222	322	422	21.4	1/2"
EVTR / 106	4200	262	362	462	106	222	322	422	21.4	1/2"
EVTR / 106	4500	262	362	462	106	222	322	422	21.4	1/2"
EVTR / 106	4800	262	362	462	106	222	322	422	21.4	1/2"
EVTR / 106	5100	262	262	462	106	222	322	422	21.4	1/2"
EVTR / 106	5400	262	262	462	106	222	322	422	21.4	1/2"
EVTR / 106	5700	262	262	462	106	222	322	422	21.4	1/2"
EVTR / 106	6000	262	262	462	106	222	322	422	21.4	1/2"

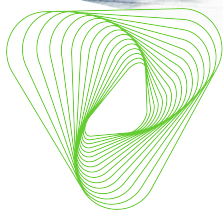
• Models With Cross Flow Fans

Forced Convection Trench Heaters with Four Pipes and Cross Flow Fan and Heater and Cooler Features



- 1 Coil
- 2 Fan
- 3 Fa Collector
- 4 Condensation Tray
- 5 Drain Connection
- 6 Floor Assembly Connection
- 7 Electrical Box
- 8 Water Connection Point Options
- 9 Height Adjusting Equipment

Model	Length (mm)		Active Length (mm)		1199	2250	3500	5800
	Width (mm)	Height (mm)	Width (mm)	Height (mm)	858	1716	2574	4290
EVFT Heating	323	188	323	188	3230	6460	9690	16150
EVFT Cooling	323	188	323	188	1400	2800	4200	7000



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ECO-VEN specialises in developing and manufacturing of Commercial and Industrial Ventilation Solutions to include: Package System Units (Roof Top Package Units, Gas-Fired Package Units and Hygienic Package Units), Air Handling Units (Standard AHUs and Hygienic AHUs) and Heat Recovery Units (HRVs and ERVs)