



PEP Ecopassport[®]

Product Environmental Profile – Trane[®] Fan Coil Wall for Data Centers

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Product Environmental Profile - PEP Ecopassport.
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Company Description

Trane Technologies® is a world leader in heating and cooling systems, services, and solutions. Together with our brands, Trane® and Thermo King®, we bring efficient and sustainable climate innovations to buildings, homes, and transportation.

Trane helps customers succeed by providing innovative solutions that optimize indoor environments through a broad portfolio of energy-efficient heating, ventilating, and air conditioning systems, buildings, contracting and energy services, parts support, and advanced controls for homes and commercial buildings.

Trane serves engineers, contractors, and building owners on all continents and in an array of markets including education, healthcare, government, industrial/ manufacturing, data centers, lodging, retail, and commercial real estate. With more than 900 U.S. patents to date, Trane creates comfortable and energy-efficient environments around the world.

Trane systems and services have a reputation for reliability, high quality, and advanced innovation; and are available through a powerful distribution network. Trane employees and distributors are respected industry-wide for their skills and performance in designing, manufacturing, marketing, and supporting commercial and residential systems.

Product Information	
Reference Product	Trane® Fan Coil Wall for Data Centers
Product Description	<p>In the data center industry, flexibility matters. The Trane® Fan Coil Wall is the data center cooling solution that's built for performance and tailored to your needs. This new platform is designed to be adjusted to meet the specific needs of data center customers, integrating seamlessly with Trane chillers and universal systems to deliver precise cooling and help maintain tight temperature tolerances and humidity control for server room environments.</p> <p>Product Family Specifications:</p> <ul style="list-style-type: none"> • Application: Indoor • Airflow Range (Cfm): 38,400 – 110,000 CFM • Up to 400kW or greater cooling capacity <p>Benefits:</p> <ul style="list-style-type: none"> • High efficiency filtration. Standard 2" MERV 8 filters help improve indoor air quality, helping to contribute to a cleaner system and environment (optional MERV 11 or 13) • High-quality, robust construction. 2" foam-injected R-13 thermal break panel, hot-dipped galvanized still inner and outer panels, and a 4" minimum base rail for durability and performance • Factory-installed Symbio® 500 controller. Enhances energy and system performance, for reliable and efficient operations • Pre-programmed BACnet®/IP or Modbus communication. Enables seamless integration with building management systems for enhanced monitoring and control • Efficient fan and coil options. Support customizable applications to meet specific cooling needs. • Low-power fan array. Helps reduce energy consumption, enhancing power usage effectiveness (PUE), helping to lower operational costs, and decreasing carbon emissions • Flexible configurations. Available in two-piece units for easy transport into limited data center footprints or single-piece units for streamline installation and faster startup • Enhanced fluid flow. Factory mounted to help enable faster installation and integration as well as energy efficiency • Factory-installed piping with integrated water control valve. Helps reduce installation time and helps provide precise and reliable cooling
Functional Unit	Transfer 1 m3 of air per hour for the ventilation and filtration of a building over the reference lifetime of 17 years
Declared Unit	To transfer air for ventilation and air filtration of a building with a ventilation unit with an 170,495 air flow rate m3/h over the typical product lifetime of 17 years. <i>Note: the mathematical relationship between the functional and declared unit is such that the declared unit divided by its airflow rate in m³/h equals the functional unit.</i>
Other Products Covered	List of other products covered in this PEP is presented in the section which concerned the extrapolation rules
Reference Lifetime*	17 Years

*Reference lifetime was defined as 17 years by the Product Category Rules which governed this analysis.

Technical Characteristics	
Data Point	Trane® Fan Coil Wall for Data Centers
Product Family	Ventilation equipment
Equipment Type	Commercial unidirectional ventilation unit
Nominal airflow	170,495 m³/h 100,350 CFM
Operating Mode	Continuous operation
Functions Handled by the Product	Ventilation, filtration (MERV 8 filters), and cooling

Constituent Materials >> Total weight of the reference product: 4971 kg					
Plastics as % of weight		Metals as % of weight		Others as % of weight	
Product only: 4971 kg					
Polyurethane	0.02%	Steel	60.0%	Electronics	5.0%
Other plastics	1.9%	Aluminum	16.5%	Other miscellaneous	1.7%
		Copper	7.7%		
		Other metals	6.8%		
Packaging only: 10 kg					
Polyethylene film	0.21%				
Total plastics	2.30%	Total metals	99.99%	Total others	6.70%

Life Cycle Stages	
Manufacturing	The manufacturing stage includes the production of raw and intermediate materials, as well as transportation to the manufacturer's last logistic platform for Trane® Fan Coil Wall for Data Centers. The final assembly of the product is carried out at Trane's plant in Columbia, SC or Fort Smith, AR, USA. As a member of SteelZero, Trane has pledged to procure, specify or stock 50% net-zero steel by 2030 and 100% net-zero steel by 2050. The main process steps for production include cutting, rolling, machining, brazing, welding, painting, sub- and final assemblies, and end-of-the-line testing.
Distribution	The transport from Trane's manufacturing facility to the customer was considered. The distance was calculated using averages for all shipped orders in 2024.
Installation	The installation stage includes diesel consumed by machinery used to move and place the product during installation as well as disposal of packaging used in product distribution.
Use	The use stage is conducted in alignment with the PSR, which models the electricity use of this commercial unidirectional unit at its nominal airflow and pressure (100,350 CFM, 1.91 in H ₂ O) over the 17-year reference lifetime with 8,760 annual operating hours for the fans in the unit. Replacement parts are also considered in this stage; filters are replaced annually, and the fan motor was replaced once over the reference lifetime.
End of Life	The end-of-life stage includes transportation to the end-of-life facility of the disposal of product. End of life fates were modeled by material for the region where they are being disposed of, in this case North America.
Benefits and loads beyond the system boundaries	Throughout the life cycle of the product, net loads and benefits beyond system boundaries are included.

Data Quality and Software	
Geographical Representativeness	The geographical scope of all life cycle stages (manufacturing, distribution, use, and end of life) of this PEP is North America. Overall geographic representativeness is considered good.
Temporal Representativeness	Primary data was collected from 2024. Secondary data refers to the Ecoinvent database published in 2023. The temporal coverage for each secondary process used in the LCA model is specified in the documentation section of individual Ecoinvent datasets.
Technological Representativeness	Overall technology representativeness is considered good.
Software and Database Used	SimaPro Craft version 10.3.0.1 Ecoinvent Database Version v3.10

	Energy Model Used
Manufacturing	Manufacturing electricity considers the eGRID specific region from which the product is being manufactured in Ecoinvent's datasets (market for electricity, medium voltage {US-SERC & US-MRO}).
Distribution	No energy consumption occurs during the distribution stage.
Installation	No energy consumption occurs during the installation stage.
Use	Use stage electricity is modeled using an average North American grid mix dataset (market group for electricity, medium voltage {RNA}).
End of Life	No energy consumption occurs during the end-of-life stage.
Benefits and loads beyond the system boundaries	End of life benefits consider average North American electricity (market group for electricity, medium voltage {RNA}).

Environmental Impacts

Results are given per functional unit (transfer 1 m³ of air per hour) and per device (one Data Center Fan Coil Wall TCDC-500 unit). Obtain results per CFM by dividing the results per device by 100,350 (airflow of this unit in CFM) or multiplying the results per functional unit by 1.699 (conversion factor from m³/h to CFM).

EN 15804 + A2 Environmental Impact Indicators, per m ³ /h corresponding to the functional unit										
		Total Life Cycle Impacts (Excluding Module D)		Manufacturing A1-A3	Distribution A4	Installation A5	Maintenance B2	Operational Energy Use B6	End of Life C1-C4	Module D
Climate change - total	GWP	1.56E+01	kg CO2 eq	2.58E-01	3.77E-03	5.38E-04	5.33E-02	1.52E+01	9.16E-03	-5.69E-02
Climate change - fossil fuels	GWPf	1.54E+01	kg CO2 eq	2.57E-01	3.77E-03	5.38E-04	5.01E-02	1.51E+01	4.54E-03	-5.64E-02
Climate change - biogenics	GWPb	1.00E-01	kg CO2 eq	-3.34E-04	4.39E-07	6.75E-08	3.12E-03	9.26E-02	4.62E-03	-1.32E-04
Climate change - land use and land use transformation	GWPlu	4.69E-02	kg CO2 eq	8.81E-04	1.09E-07	1.56E-08	9.00E-05	4.59E-02	6.18E-07	-3.91E-04
Ozone depletion	ODP	1.41E-07	kg CFC-11 eq	6.30E-09	4.98E-11	6.87E-12	5.44E-08	8.06E-08	4.18E-11	-4.19E-10
Acidification	AP	4.53E-02	mole of H+ eq	5.13E-03	9.88E-06	1.43E-06	3.70E-04	3.98E-02	1.24E-05	-1.46E-03
Eutrophication, freshwater	Epf	1.07E-03	kg P eq	2.75E-05	9.19E-09	1.20E-09	2.35E-06	1.04E-03	1.16E-07	-4.76E-06
Eutrophication, marine aquatic	Epm	6.43E-03	kg of N eq	3.71E-04	3.56E-06	5.32E-07	4.64E-05	6.00E-03	9.60E-06	-8.14E-05
Eutrophication, terrestrial	Ept	7.29E-02	mole of N eq	4.64E-03	3.90E-05	5.83E-06	5.27E-04	6.76E-02	4.17E-05	-1.04E-03
Photochemical ozone formation	POCP	2.97E-02	kg NMVOC eq	1.69E-03	1.47E-05	2.16E-06	1.85E-04	2.78E-02	1.58E-05	-3.46E-04
Abiotic resource depletion – elements	ADPe	6.02E-05	kg Sb eq	5.79E-05	2.20E-10	3.02E-11	1.60E-06	7.54E-07	1.51E-08	-1.56E-05
Abiotic resource depletion – fossil fuels	ADPf	2.92E+02	MJ	3.16E+00	4.96E-02	6.73E-03	7.00E-01	2.88E+02	4.28E-02	-5.93E-01
Water use	WU	3.79E+00	m3 world eq	9.80E-02	4.57E-05	-2.77E-07	9.13E-03	3.68E+00	-1.12E-03	-2.41E-02

Notes: characterization factors use the -1/+1 biogenic carbon storage assessment methodology

Inventory Flow Indicators, per m ³ /h corresponding to the functional unit										
		Total Life Cycle Impacts (Excluding Module D)		Manufacturing A1-A3	Distribution A4	Installation A5	Maintenance B2	Operational Energy Use B6	End of Life C1-C4	Module D
Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	PERE	4.08E+01	MJ	6.17E-01	7.96E-05	1.15E-05	7.75E-02	4.01E+01	9.30E-04	-2.08E-01
Use of renewable primary energy resources used as raw materials	PERM	2.81E-02	MJ	2.81E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total use of renewable primary energy resources	PERT	4.09E+01	MJ	6.73E-01	7.96E-05	1.15E-05	7.75E-02	4.01E+01	9.30E-04	-2.08E-01
Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	PENRM	3.72E-02	MJ	3.72E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-2.68E-03
Use of non-renewable primary energy resources used as raw materials	PENRE	2.92E+02	MJ	3.12E+00	4.96E-02	6.73E-03	7.00E-01	2.88E+02	4.28E-02	-5.91E-01
Total use of non-renewable primary energy resources	PENRT	2.92E+02	MJ	3.20E+00	4.96E-02	6.73E-03	7.00E-01	2.88E+02	4.28E-02	-5.96E-01
Use of secondary materials	USM	8.19E-03	kg	8.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	URSF	0.00E+00	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	UNRSF	0.00E+00	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Net use of fresh water	NUFW	1.83E-01	m3	3.74E-03	1.67E-06	8.43E-08	3.83E-04	1.79E-01	-2.43E-05	-1.20E-03
Hazardous waste disposed	HWD	8.98E-03	kg	1.32E-04	4.03E-07	2.44E-07	8.57E-04	7.48E-03	5.07E-04	-5.45E-06
Non-hazardous waste disposed	NHWD	1.86E-01	kg	1.11E-02	2.06E-06	5.04E-05	2.15E-03	1.43E-01	2.91E-02	-1.23E-03
Radioactive waste disposed	RWD	1.61E-03	kg	5.05E-06	1.78E-09	2.57E-10	1.10E-06	1.61E-03	1.24E-08	-7.00E-07
Components for re-use	CRU	0.00E+00	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	MFR	0.00E+00	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for energy recovery	MER	2.87E-02	kg	6.18E-03	0.00E+00	5.16E-06	1.32E-03	0.00E+00	2.12E-02	0.00E+00
Exported energy	EE	2.37E-03	MJ	0.00E+00	0.00E+00	1.23E-04	3.47E-05	0.00E+00	2.21E-03	0.00E+00
Biogenic carbon content in the product	BCC	0.00E+00	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic carbon content in accompanying packaging	BCCP	0.00E+00	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TRACI 2.2 Environmental Impact Indicators, per m ³ /h corresponding to the functional unit										
		Total Life Cycle Impacts (Excluding Module D)		Manufacturing A1-A3	Distribution A4	Installation A5	Maintenance B2	Operational Energy Use B6	End of Life C1-C4	Module D
Ozone depletion	OD	1.31E-08	kg CFC-11 eq	9.31E-10	2.04E-13	3.05E-14	4.03E-11	1.22E-08	6.19E-13	-1.09E-10
Global warming	GW	1.53E+01	kg CO2 eq	2.56E-01	3.72E-03	5.31E-04	4.95E-02	1.50E+01	7.18E-03	-5.61E-02
Smog	SG	4.00E-01	kg O3 eq	2.30E-02	2.26E-04	3.38E-05	2.89E-03	3.74E-01	2.36E-04	-5.05E-03
Acidification	A	3.81E-02	kg SO2 eq	4.06E-03	8.88E-06	1.29E-06	3.06E-04	3.37E-02	1.11E-05	-1.15E-03
Eutrophication	E	4.37E-08	kg N eq	6.60E-09	1.00E-12	2.83E-13	3.70E-10	3.68E-08	7.67E-12	-1.60E-09
Carcinogenics	C	6.21E-07	CTUh	2.37E-09	5.91E-10	7.52E-11	1.23E-08	6.05E-07	1.05E-09	-8.67E-08
Non carcinogenics	NC	2.40E-02	CTUh	5.51E-04	1.51E-06	2.06E-07	5.38E-05	2.34E-02	2.05E-06	-1.42E-04
Respiratory effects	RE	3.01E+00	kg PM2.5 eq	8.28E-01	1.23E-02	1.58E-03	5.71E-02	2.10E+00	1.11E-02	-2.13E-01
Ecotoxicity	EX	4.80E-04	CTUe	1.32E-05	4.40E-09	6.36E-10	1.12E-06	4.66E-04	9.10E-08	-2.18E-06
Fossil fuel depletion	FFD	3.56E-03	MJ surplus	2.25E-04	1.90E-06	2.84E-07	2.57E-05	3.30E-03	3.05E-06	-5.04E-05

EN 15804 + A2 Environmental Impact Indicators, per device corresponding to the reference product

		Total Life Cycle Impacts (Excluding Module D)		Manufacturing A1-A3	Distribution A4	Installation A5	Maintenance B2	Operational Energy Use B6	End of Life C1-C4	Module D
Climate change - total	GWP	2.65E+06	kg CO2 eq	4.40E+04	6.42E+02	9.17E+01	9.08E+03	2.60E+06	1.56E+03	-9.70E+03
Climate change - fossil fuels	GWPF	2.63E+06	kg CO2 eq	4.39E+04	6.42E+02	9.17E+01	8.54E+03	2.57E+06	7.74E+02	-9.61E+03
Climate change - biogenics	GWPB	1.70E+04	kg CO2 eq	-5.70E+01	7.48E-02	1.15E-02	5.31E+02	1.58E+04	7.87E+02	-2.26E+01
Climate change - land use and land use transformation	GWPLU	7.99E+03	kg CO2 eq	1.50E+02	1.85E-02	2.65E-03	1.54E+01	7.82E+03	1.05E-01	-6.66E+01
Ozone depletion	ODP	2.41E-02	kg CFC-11 eq	1.07E-03	8.50E-06	1.17E-06	9.27E-03	1.37E-02	7.14E-06	-7.15E-05
Acidification	AP	7.72E+03	mole of H+ eq	8.75E+02	1.69E+00	2.44E-01	6.30E+01	6.78E+03	2.12E+00	-2.49E+02
Eutrophication, freshwater	Epf	1.83E+02	kg P eq	4.70E+00	1.57E-03	2.05E-04	4.01E-01	1.77E+02	1.97E-02	-8.11E-01
Eutrophication, marine aquatic	Epm	1.10E+03	kg of N eq	6.33E+01	6.06E-01	9.07E-02	7.91E+00	1.02E+03	1.64E+00	-1.39E+01
Eutrophication, terrestrial	Ept	1.24E+04	mole of N eq	7.91E+02	6.65E+00	9.93E-01	8.98E+01	1.15E+04	7.12E+00	-1.78E+02
Photochemical ozone formation	POCP	5.07E+03	kg NMVOC eq	2.88E+02	2.51E+00	3.68E-01	3.16E+01	4.75E+03	2.69E+00	-5.90E+01
Abiotic resource depletion – elements	ADPe	1.03E+01	kg Sb eq	9.87E+00	3.76E-05	5.15E-06	2.73E-01	1.29E-01	2.57E-03	-2.66E+00
Abiotic resource depletion – fossil fuels	ADPF	4.98E+07	MJ	5.38E+05	8.45E+03	1.15E+03	1.19E+05	4.92E+07	7.29E+03	-1.01E+05
Water use	WU	6.46E+05	m3 world eq	1.67E+04	7.79E+00	-4.73E-02	1.56E+03	6.28E+05	-1.91E+02	-4.11E+03

Note: characterization factors use the -1/+1 biogenic carbon storage assessment methodology

Inventory Flow Indicators, per device corresponding to the reference product

		Total Life Cycle Impacts (Excluding Module D)		Manufacturing A1-A3	Distribution A4	Installation A5	Maintenance B2	Operational Energy Use B6	End of Life C1-C4	Module D
Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	PERE	6.96E+06	MJ	1.05E+05	1.36E+01	1.96E+00	1.32E+04	6.84E+06	1.59E+02	-3.55E+04
Use of renewable primary energy resources used as raw materials	PERM	4.80E+03	MJ	4.80E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total use of renewable primary energy resources	PERT	6.97E+06	MJ	1.15E+05	1.36E+01	1.96E+00	1.32E+04	6.84E+06	1.59E+02	-3.55E+04
Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	PENRM	6.34E+03	MJ	6.34E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-4.56E+02
Use of non-renewable primary energy resources used as raw materials	PENRE	4.98E+07	MJ	5.32E+05	8.45E+03	1.15E+03	1.19E+05	4.92E+07	7.29E+03	-1.01E+05
Total use of non-renewable primary energy resources	PENRT	4.98E+07	MJ	5.45E+05	8.45E+03	1.15E+03	1.19E+05	4.92E+07	7.29E+03	-1.02E+05
Use of secondary materials	USM	1.40E+03	kg	1.40E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	URSF	0.00E+00	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	UNRSF	0.00E+00	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Net use of fresh water	NUFW	3.12E+04	m3	6.38E+02	2.84E-01	1.44E-02	6.53E+01	3.05E+04	-4.15E+00	-2.05E+02
Hazardous waste disposed	HWD	1.53E+03	kg	2.25E+01	6.88E-02	4.16E-02	1.46E+02	1.28E+03	8.64E+01	-9.29E-01
Non-hazardous waste disposed	NHWD	3.17E+04	kg	1.89E+03	3.51E-01	8.59E+00	3.66E+02	2.45E+04	4.96E+03	-2.10E+02
Radioactive waste disposed	RWD	2.75E+02	kg	8.61E-01	3.04E-04	4.39E-05	1.88E-01	2.74E+02	2.12E-03	-1.19E-01
Components for re-use	CRU	0.00E+00	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	MFR	0.00E+00	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for energy recovery	MER	4.90E+03	kg	1.05E+03	0.00E+00	8.80E-01	2.25E+02	0.00E+00	3.62E+03	0.00E+00
Exported energy	EE	4.04E+02	MJ	0.00E+00	0.00E+00	2.09E+01	5.92E+00	0.00E+00	3.77E+02	0.00E+00
Biogenic carbon content in the product	BCC	0.00E+00	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic carbon content in accompanying packaging	BCCP	0.00E+00	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TRACI 2.2 Environmental Impact Indicators, per device corresponding to the reference product

		Total Life Cycle Impacts (Excluding Module D)		Manufacturing A1-A3	Distribution A4	Installation A5	Maintenance B2	Operational Energy Use B6	End of Life C1-C4	Module D
Ozone depletion	OD	2.24E-03	kg CFC-11 eq	1.59E-04	3.48E-08	5.21E-09	6.88E-06	2.07E-03	1.06E-07	-1.85E-05
Global warming	GW	2.61E+06	kg CO2 eq	4.36E+04	6.35E+02	9.06E+01	8.44E+03	2.56E+06	1.22E+03	-9.57E+03
Smog	SG	6.82E+04	kg O3 eq	3.92E+03	3.85E+01	5.77E+00	4.93E+02	6.37E+04	4.03E+01	-8.62E+02
Acidification	A	6.50E+03	kg SO2 eq	6.93E+02	1.51E+00	2.20E-01	5.21E+01	5.75E+03	1.90E+00	-1.96E+02
Eutrophication	E	7.46E-03	kg N eq	1.12E-03	1.70E-07	4.82E-08	6.30E-05	6.27E-03	1.31E-06	-2.73E-04
Carcinogenics	C	1.06E-01	CTUh	4.04E-04	1.01E-04	1.28E-05	2.10E-03	1.03E-01	1.80E-04	-1.48E-02
Non carcinogenics	NC	4.09E+03	CTUh	9.40E+01	2.57E-01	3.51E-02	9.18E+00	3.99E+03	3.50E-01	-2.42E+01
Respiratory effects	RE	5.14E+05	kg PM2.5 eq	1.41E+05	2.09E+03	2.69E+02	9.74E+03	3.59E+05	1.89E+03	-3.63E+04
Ecotoxicity	EX	8.19E+01	CTUe	2.26E+00	7.50E-04	1.09E-04	1.91E-01	7.94E+01	1.55E-02	-3.71E-01
Fossil fuel depletion	FFD	6.07E+02	MJ surplus	3.84E+01	3.24E-01	4.85E-02	4.39E+00	5.63E+02	5.19E-01	-8.59E+00

Extrapolation Factors

Trane® Fan Coil Wall Units are part of a homogenous family of Trane air ventilation units. Additional products covered by this PEP are detailed below, with the reference product denoted in blue.

TCDC-360
TCDC-430
TCDC-450
TCDC-500
TCDC-520
TCDC-550
TCDC-800
17' Wide Vantage

For products other than the reference product, the environmental impacts can be calculated using the extrapolation rules below. The following tables contain factors to be used in the extrapolation of LCIA results for the ventilation units covered in this report. These scaling factors are intended to allow interested parties to determine the environmental impacts of Trane® Fan Coil Wall units of interest.

Extrapolation coefficients are given for the environmental impact of the functional unit, i.e. the transfer of 1m³ of air per hour. For each stage of the life cycle, the environmental impacts of the product concerned are calculated by multiplying the impacts of the declaration corresponding to the reference product by the extrapolation coefficient. The "Total" column should be calculated by adding the environmental impacts of each stage of the life cycle.

To use these scaling factors, individuals should:

1. Identify the LCIA result of interest and product of interest.
2. Multiply the results in the reference product's environmental impact indicator table, found on page 4-7, by the corresponding cell in the table that pertains to the product of interest, found below.

Product	Extrapolation Factors – Declared Unit							Extrapolation Factors – Functional Unit						
	A1-A3	A4	A5	B2	B6	C1-C4	D	A1-A3	A4	A5	B2	B6	C1-C4	D
TCDC-360	0.75	0.75	0.75	0.75	0.88	0.75	0.75	1.25	1.25	1.25	1.25	1.47	1.25	1.25
TCDC-430	0.91	0.91	0.91	0.91	1.10	0.91	0.91	1.21	1.21	1.21	1.21	1.47	1.21	1.21
TCDC-450	0.73	0.73	0.73	0.73	1.10	0.73	0.73	1.07	1.07	1.07	1.07	1.60	1.07	1.07
TCDC-500	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
TCDC-520	0.84	0.84	0.84	0.84	1.10	0.84	0.84	1.21	1.21	1.21	1.21	1.57	1.21	1.21
TCDC-550	0.81	0.81	0.81	0.81	1.10	0.81	0.81	1.07	1.07	1.07	1.07	1.44	1.07	1.07
TCDC-800	1.04	1.04	1.04	1.04	1.32	1.04	1.04	0.95	0.95	0.95	0.95	1.20	0.95	0.95
17' Wide Vantage	0.94	0.94	0.94	0.94	1.17	0.94	0.94	1.05	1.05	1.05	1.05	1.31	1.05	1.05

Comparability

EPDs published within the same product category, though originating from different programs, may not be comparable. Full conformance with a PCR allows PEP comparability only when all stages of a life cycle have been considered. However, variations and deviations are possible.

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Document complies with ISO 14025:2006 "Environmental labels and declarations. Type III environmental declarations"	



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