





Knowledge and technology are our corporate philosophy, flexibility and availability are our strengths, performance, safety, and quality at every stage of production are our goals.

The production line covers the entire range of heat exchangers. Our four tube diameters are available in various geometries, allowing us to optimize heat exchange for all applications.

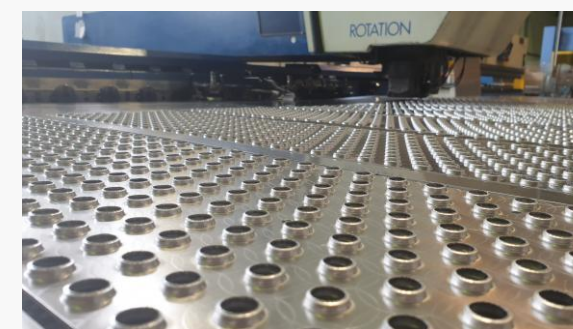
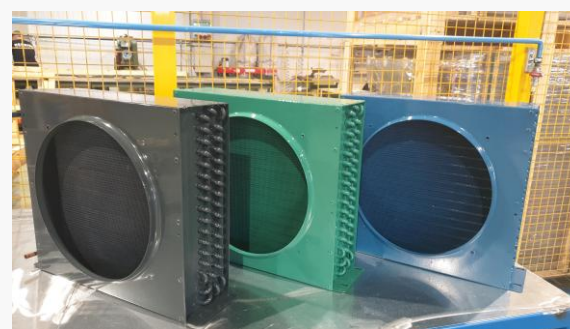
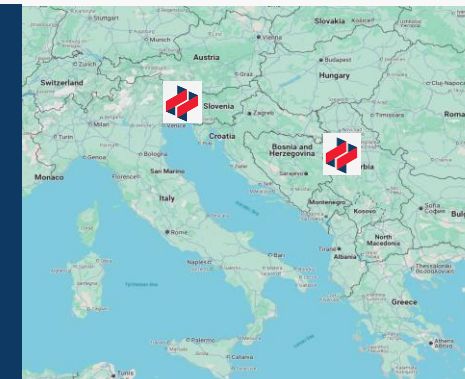
Quality and production processes are controlled in accordance with ISO 9001 certification.

STD COIL d.o.o.

Severna 5 nr. 3 15000 Sabac,
Serbia
tel. +381 66 888 95 59
info@stdcoil.com

Italian Office

mob. +39 392 3307049



Finned pack heat exchangers for air conditioning and refrigeration (HVAC-R)





High Quality Solutions for Refrigeration and HVAC

We offer heat exchangers designed to maximize energy efficiency and reduce operating costs. Thanks to our experience and constant innovation, we provide customized solutions, perfect for the specific needs of every professional system. Discover how our advanced technology can make a difference for your business.

Tailor made products

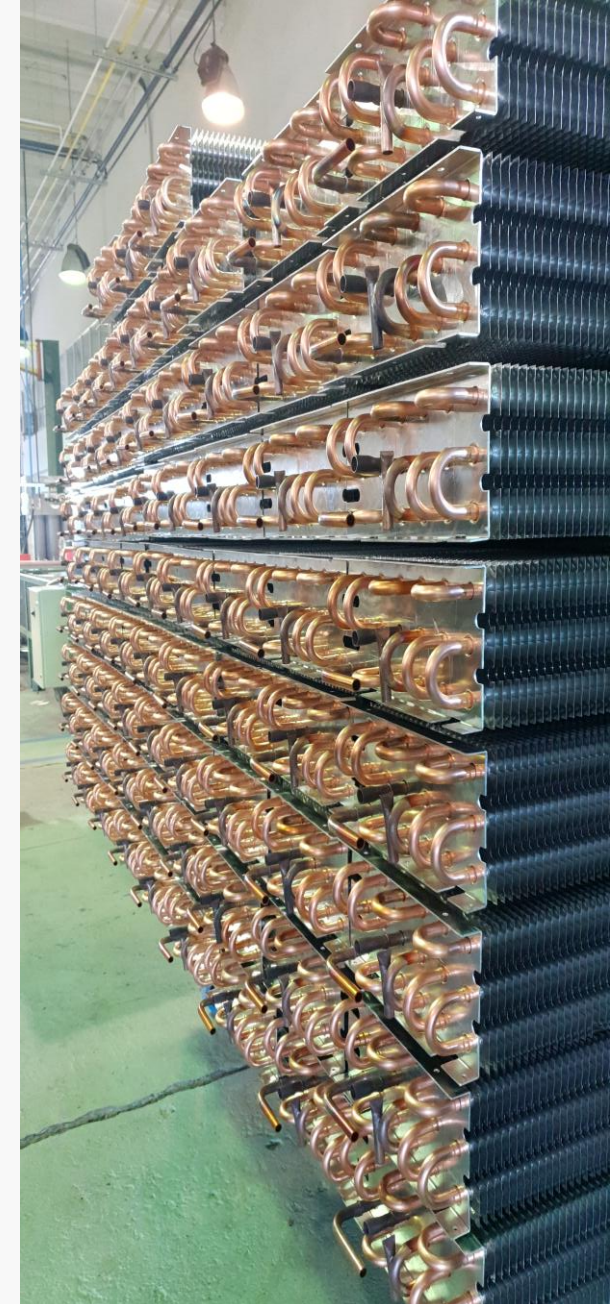
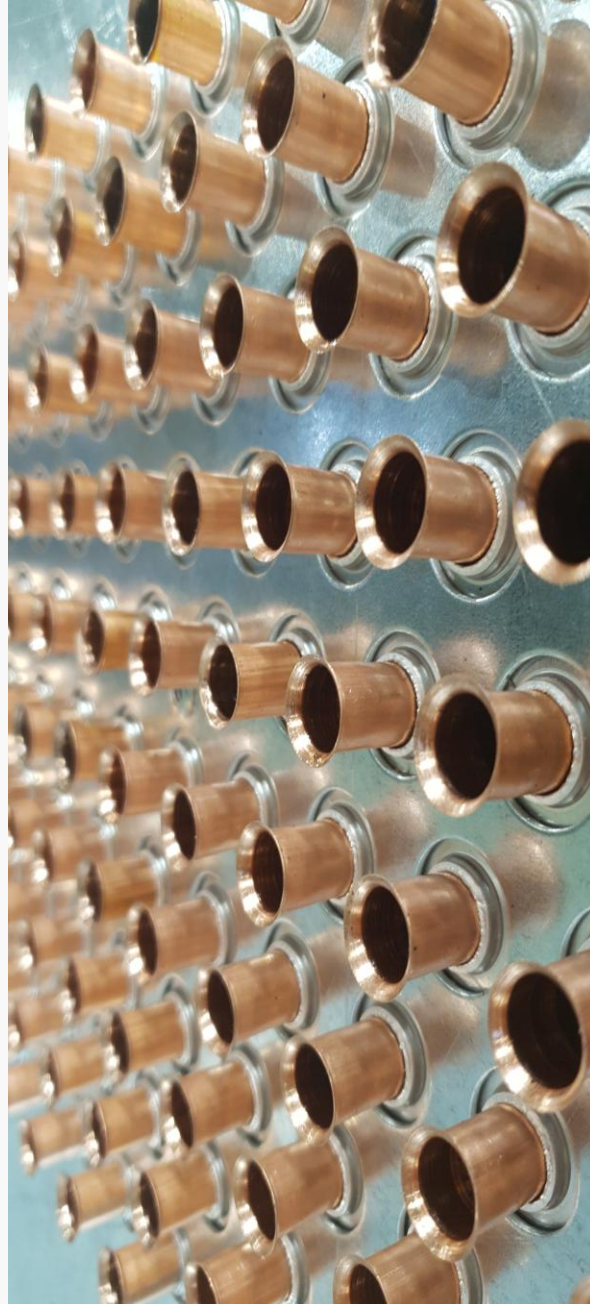
Each heat exchanger is designed to meet the specific needs of our clients, ensuring maximum efficiency and durability.

Consulting service

We offer personalized technical consultancy to optimize the installation and maintenance of your systems.

Research and innovation

We continuously invest in research to develop increasingly advanced and high-performance solutions for your industry..



STANDARD PRODUCTION: Application sectors

The wide range of available geometries allows us to support our customers in various application sectors. Our technical office is able to identify specific and customized solutions, optimizing the product with the aim of reducing time and costs.

G.D.O.



INDUSTRIAL / HVAC



FOOD & BEVERAGE



HO.RE.CA.



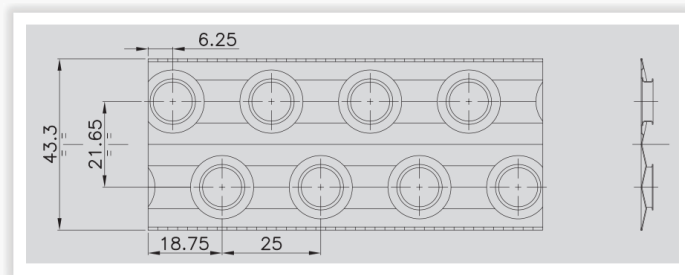
LOGISTIC



ICT DATA CENTERS

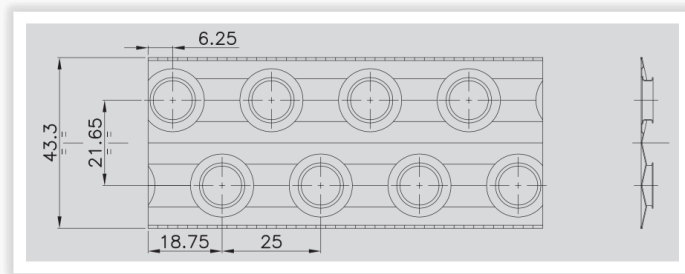


STANDARD PRODUCTION: Available geometries



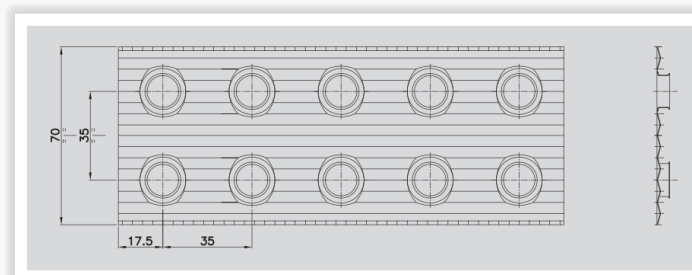
2508 – tube Ø 5/16"

With 7.94mm copper tubes in **staggered geometry mm25.00x21x65**, with corrugated fins: used in air conditioning and refrigeration of small and medium power (water coils, condensers and ventilated evaporators)



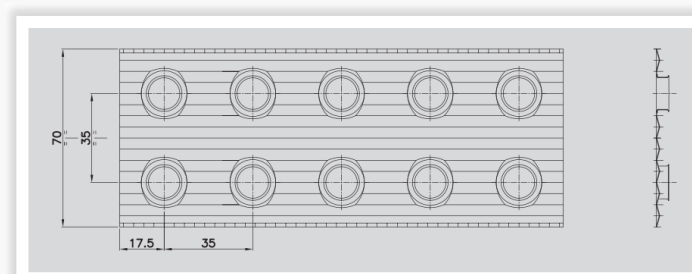
2510 – tube Ø 3/8"

With 9.52mm copper tubes in **staggered geometry mm25.00x21x65**, with corrugated fins: used in air conditioning and refrigeration of small and medium power (water coils, condensers and ventilated evaporators)



3510 – tube Ø 3/8"

With 9.52mm copper tubes in the **square geometry mm35.00x35.00**, with corrugated fins: ideal for the creation of evaporators for refrigeration of all types.



3512 – tube Ø 12mm

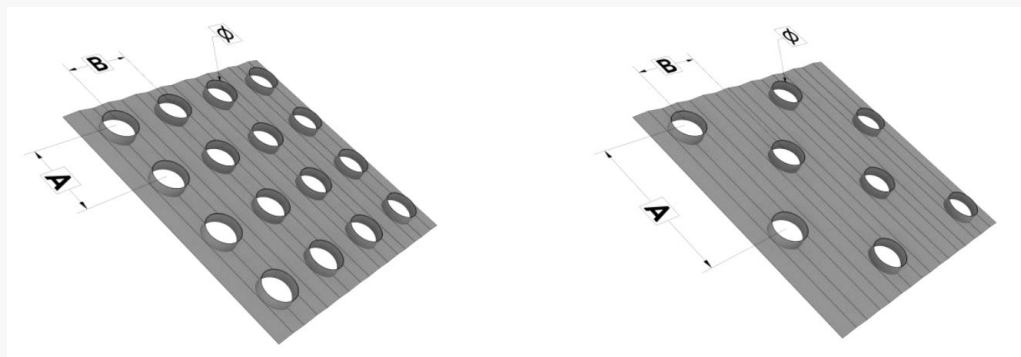
With 12 mm diameter copper tubes in the **35.00 x 35.00 mm square geometry**, with corrugated fins: ideal for the construction of evaporators for all types of refrigeration.

Tube Ø 7mm – available from September 2026

Available geometries

The heat exchange geometries developed by STDCOIL D.o.o. are optimized for use in both the refrigeration and air conditioning sectors. Two main configurations are available:

- Linear (square) geometries
- Triangular (staggered) geometries



Geometries are classified according to the diameter of the tube, as follows:

Geometria passo (mm)		Ø tubo (mm)	Ø tubo (pollici)	Configurazione
A	B			
25	21,65	7.94	5/16"	Triangolare
25	21,65	9.52	3/8"	Triangolare
35	35	9.52	3/8"	Lineare
35	35	12.00	—	Lineare
50	50	15.88	5/8"	Lineare

Different tube thicknesses and materials are available for each geometry. Depending on the selected geometry, variable fin pitches can be applied, ranging approximately:

- from a minimum of 1.6 mm
- to a maximum of 12 mm

Specific technical details for each geometry/pitch/material combination will be provided in the relevant technical project documents.

Production limits

For each available geometry, STDCOIL D.o.o. has defined minimum and maximum dimensional limits relating to the main processing phases (fin pack forming, expansion, welding, testing, etc.).

Geometria	Diametro Ø tubo (mm)	Forcine		Tubi Diritti		Mandrinatura		Passo Alette	
		Min	Max	Min	Max	Min	Max	Min	Max
2508	7,94	152	4100	40	8000	112	5850	1,6	6
2510	9,52	152	4100	40	8000	112	5850	1,6	6
3510	9,52	220	4200	40	8000	190	5850	3	11
3512	12	220	4250	40	8000	190	5850	3	10
5016	15,88	220	4200	40	8000	190	4120	3	12

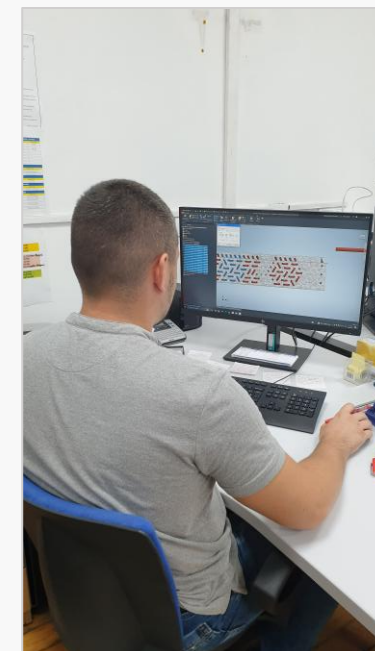
Testing

Products featuring welds and heat exchangers are subjected to a 100% leak test by immersing the batteries themselves charged with dry air from a minimum of 25 bar to a maximum of 66 bar in special tanks for an average time of 30".

In the case of CO2 batteries or upon specific customer request, they can be tested up to 66 bar.

Upon customer request, the batteries can be charged with nitrogen (at 0.5 bar) with neoprene caps on the inlet and outlet pipes. The charging pressure can reach up to 2 bar upon request, in this case, however, it would be advisable to replace the neoprene caps with welded copper caps or to clamp and solder the outlets. The purchase of nitrogen-charged batteries is highly recommended as it protects the batteries from the triggering of any internal corrosive phenomena due to the presence of humidity in the pipes (formicary corrosion), also allowing the presence of any leaks / micro-leaks to be identified during assembly.

STDCOIL D.o.o. is certified according to the ISO 9001 quality management system. This certification ensures that all company processes—from design to production to final inspection—are managed in compliance with international standards of quality, traceability, and continuous improvement.



On-line calculation software

STDCoil provides its customers and collaborators with online calculation software.

By entering the project data, the software calculates the exchanger model needed to meet the specifications, returning a technical data sheet containing the component code and drawing.


Finder
Logic
Offerte
Clients
Gabriele Varacchi

Configurazione scambiatore
Offerta attiva
Cancella
Visualizza
Salva offerta

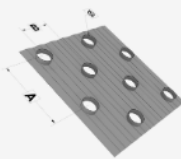
Selezione
Tipo batteria: Evaporazione
Diametro tubi: 9.52
Type: Staggered
Geometria: 2510

Materiale alette
Materiale alette: AL - Alluminio
Spessore alette [mm]: 0,10

Passo alette
All | None
1,6
1,8
2,0
2,1
2,3
2,5
2,8
3,0

Materiale tubi
Materiale tubi: CU - Rame
Spessore tubi [mm]: 0,28

Altri materiali
Materiale collettore: CU - Rame
Materiale telaio: AL - Alluminio

Geometria

A: 25 B: 21.65 Ø: 9.52

Altri filtri
N. ranghi: 4 Lunghezza[mm]: 1000
N. circuiti: 6 Altezza[mm]:
N. stadi: 1 N. tubi: 20
Tubi saldati:

Dati richiesti
Temp. Uscita aria [°C]: 30
Capacità [kW]:
Fattore sicurezza [%]: 0

Dati aria
Portata [m³/h]:
Velocità [m/s]: 2.5
Ta - Temp. Aria [°C]: 32
RH - Umidità rel. [%]: 50
Altitudine [m]: 0

Dati fluido
Refrigerante: R717 (NH3) Dew
Te - Temp. evaporazione [°C]: 5
DT Surriscaldamento [K]: 5
Tc - Temp. condensazione [°C]: 50
DT Sottoraffreddamento [K]: 3

Keep data
Drawing

Calcola
Scheda tecnica
Aggiungi

Modello	R [%]	Qt [kW]	Qs [kW]	qa [m³/h]	Va [m/s]	Dpa [Pa]	qf [Kg/s]	Dpf [kPa]	Dpf [K]
2510S.28.CU.10.AL.20.04.1000.016.E.V.1.006.080	838,6	50,7	26,63	4500	2,5	141,9	0,048	64,868	3,343


Version: Logic Software 1.0
Date: 25/7/2025

REF: STDCOIL

Evaporating coil: 2510S.28.CU.10.AL.20.04.1000.016.E.V.1.006.080

Performance
Potenza totale: 50,70 kW
Potenza sensibile: 26,63 kW
Potenza Latente: 24,10 kW
Rserva: 838,6 %

General Data
Superficie: 49,0 m²
Volume: 7,0 l
Peso: 18,7 kg
Max. operating pressure: 30 bar
PED classification: Categoria II, Modulo A2

Air Side
Portata aria: 4500 m³/h
Velocità: 2,5 m/s
Altitudine: 0 m
Temperatura In: 32,0 / 50 °C / %
Temperatura Out: 13,2 / 88 °C / %
Water cont. IN/OUT: 15,0 / 8,4 g/Kg
Condensa acqua: 9,3 g/s
Sensible Heat Factor: 0,53
Perdita di carico: 141,9 Pa

Refrigerant
Refrigerante: R717 (NH3)
T.Evaporazione (Dew): 5,0 °C
T. Surriscaldamento: 50,0 °C
T. Cond.: 3,0 K
Sottoraffreddamento: 173 kg/h
Portata: 64,9 kPa
Perdita di carico: 3,3 K
Pressione esercizio: 5,2 bar

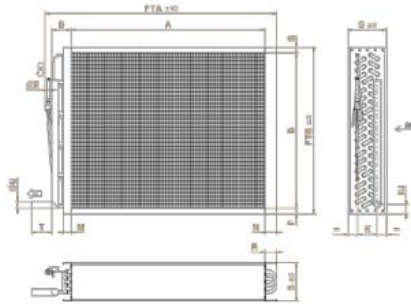
Material
Tube diameter: 9,52 mm
Tube Material: Rame / 0,28 mm
Fins material: Alluminio / 0,1 mm
Fins spacing: 1,6 mm

Materiale telaio: Alluminio / 1,5 mm
Materiale collettori: Rame
Connessione IN: 16 x 0,7
Connessione OUT: 42 x 1

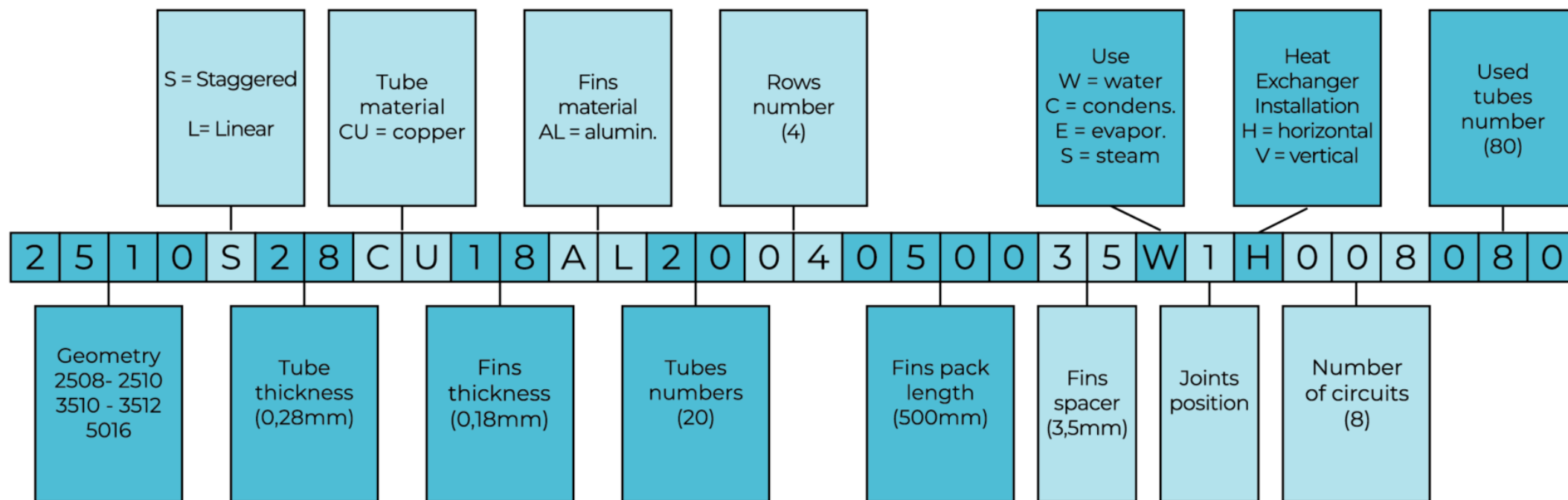
Disegno Dimensionale

A	1000	B	500
FTA	1111	FTB	560
IE	38	IU	51
OE	16	OU	42
F	30	G	30
M	30	N	30
R	20	T	150
D	45	K	65
S	130		

N° Intermedie: 0
Air Direction

The speaking code



All the characteristics of the heat exchangers are summarised in an alphanumeric speaking code that identifies the product

STANDARD PRODUCTION: Certifications



RoHS Directive

The batteries produced by STDCOIL D.o.o. are manufactured using raw materials, components, and materials compliant with Directive 2011/65/EU, as amended by (EU) 2015/863, **concerning the restriction of the use of certain hazardous substances in electrical and electronic equipment.**



Pressure Equipment Directive 2014/68/EU

The heat exchangers manufactured by STDCOIL D.o.o. are designed and manufactured in compliance with the Pressure Equipment Directive 2014/68/EU (PED). Most batteries fall under Article 4, paragraph 3, and therefore do not require CE marking. However, STDCOIL D.o.o. is certified for the design and construction of pressure equipment up to Category II and can supply CE-marked batteries complete with technical documentation and certification, where required.



ISO 9001 Certification

STDCOIL D.o.o. is certified according to ISO 9001 for its quality management system. The certification ensures that all company processes – from design to production, up to final inspection – **are managed in compliance with international standards for quality, traceability, and continuous improvement.**

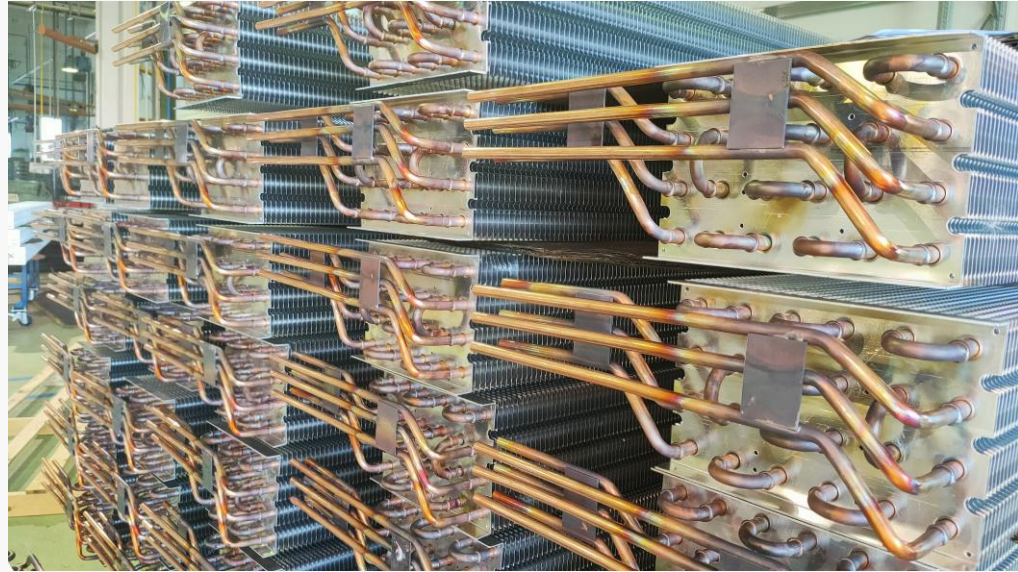


ECOVADIS

STDCOIL D.o.o. is ECOVADIS certified. EcoVadis certification is not a traditional certification, but an assessment of a company's sustainability, an internationally recognized ESG (Environmental, Social, Governance) **rating that measures a company's performance in four key areas: Environment, Labor and Human Rights, Business Ethics, and Sustainable Procurement.**



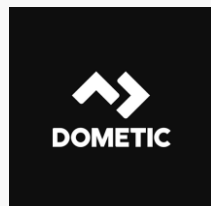
STANDARD EXCHANGERS: Exchangers



STANDARD PRODUCTION: Condensators



THEY HAVE CHOSEN STDCOIL:



[illegible]