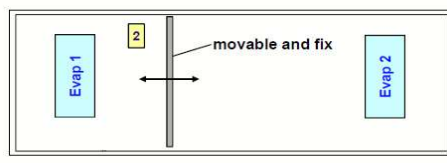


Configuration 2:

ATP registration numbers of vehicle	Refrigeration unit: VECTOR HE 19 MT + MHS 1100
ATP type approval no. of refrigeration unit	M1172
ATP type approval no. of body	Z-CET-2024/0052 (F-10657/764)
Vehicle ATP certificate no.	
Vehicle identification no.	WSM000000S2047477 (61386125)



Data of overall body	Internal dimensions			Floor material	K value of outer body	Volumen Internal
	L	W	H			
	13,410 m	2,460 m	2,700 m	Alu	0,36 W/(m².°C)	89,07 m³

A. Input data

A1. Data of insulated body

Data of internal bulkheads	Movable or fixed	Thickness	K value [W/m2.°C]
Transversal bulkhead (1→2)	movable	43 mm	3,2

Dimensions / Use of Compartments	Internal length		Fixed temperature in each comp.?	Dry freight use?	Lowest class temp. permitted in each comp.?
	Minimal length	Maximal length			
Compartment 1	5,40 m	12,57 m	No	Yes	Yes
Compartment 2	0,80 m	7,97 m		Yes	

A2. Data of multitemp refrigeration unit

Cooling capacities at:	-20 °C
Nominal refr. cap. host unit	8.846
Individual refr. cap. evap. 1	9.486
Individual refr. cap. evap. 2	6.481

Air volume flow	m³/h
Air volume flow evap. 1	5.473
Air volume flow evap. 2	2.650

Air changes per hour	50
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Additional constraints on combinations of temperatures when 'Fixed temperature in each comp.'=No:

- Two compartments are never used at the same temperature.

Dimensions / Use of Compartments	Maximal volumen	Internal length		Air changes per hour	
		Maximal length	Minimal length		
Compartment 1	89,07 m³	12,57 m	5,40 m	61	Ok
Compartment 2	53,00 m³	7,97 m	0,80 m	50	Ok

B. Result of calculation (incl. dimensioning factor 1,75)

B1. Sufficient refrigerating capacity?

Nominal refrigerating capacity:	Ok
Minimally required nominal refr. cap.	5.782 W
Effective refrigerating capacity	Ok

B2. Maximum refrigerating demand in each compartment

Individual refrigerating demand in each compartment	Maximum refrigerating demand in compartment 1						Maximum refrigerating demand in compartment 2					
	Refr./heat. demand	Tempe- ratures	Required rel. run. times	Available effect. refr. capacity	Internal length	Internal width	Refr./heat. demand	Tempe- ratures	Required rel. run. times	Available effect. refr. capacity	Internal length	Internal width
Compartment 1	5.782 W	-20 °C	61%	9.486 W	12,57 m	2,46 m	-1.095 W	20 °C	0%	0 W	5,40 m	2,46 m
Compartment 2	-1.394 W	20 °C	0%	0 W	0,80 m	2,46 m	4.287 W	-20 °C	66%	6.481 W	7,97 m	2,46 m
Collective:	5.782 W		61%	9.486 W			4.287 W		66%	6.481 W		

B3. Maximum collective refrigerating demand of all compartments

Maximum collective refrigerating demand	Refr./heat. demand	Tempe- ratures	Required rel. run. times	Available effect. refr. capacity	Internal length	Internal width
Compartment 1	5.782 W	-20 °C	61%	9.486 W	12,57 m	2,46 m
Compartment 2	-1.394 W	20 °C	0%	0 W	0,80 m	2,46 m
Collective:	5.782 W		61%	9.486 W		

B4. Maximum collective relative running time of all compartments

Maximum collective refrigerating demand	Refr./heat. demand	Tempe- ratures	Required rel. run. times	Available effect. refr. capacity	Internal length	Internal width
Compartment 1	-1.095 W	20 °C	0%	0 W	5,40 m	2,46 m
Compartment 2	4.287 W	-20 °C	66%	6.481 W	7,97 m	2,46 m
Collective:	4.287 W		66%	6.481 W		

En Figueruelas (Zaragoza), a 2 de noviembre de 2025

Alberto Jaqués Carnicer

Le / on : 2026/06/30

Cemafruid SAS
Responsable ATP / Responsible for the ATP

(Name, stamps, date, signature)



Le Président de CEMAROID SAS

Print date: 02/11/2025
Page: 1 of 1



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TECNEA SAS représentée par son Président Gérald CAVALIER

DC-02923107-00986244-1525587/ATPD0626003789