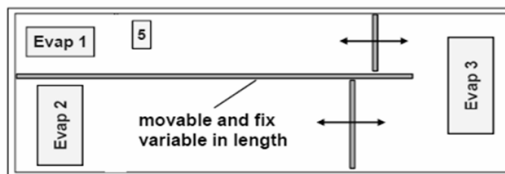


Configuration 5:

ATP registration numbers of vehicle

ATP type approval no. of refr. unit	1012 corr1
ATP type approval no. of body	114_2023
Vehicle ATP certificate no.	6
Vehicle identification no.	9034026



Data of overall body	Internal dimensions			Floor material	K value of outer body
	L	W	H		
	13,41 m	2,46 m	2,50 m	Alu	0,39 W/(m².°C)

A. Input data

A1. Data of insulated body

Data of internal bulkheads	Mov./fixed	Length	Thickness	K value [W/m2.°C]
Longitudinal bulkhead (1→2)	fixed	8,51 m	50 mm	2,0
Transversal bulkhead (1→3)	movable		50 mm	3,2
Transversal bulkhead (2→3)	movable		50 mm	3,2

Dimensions / Use of Compartments	Internal length			Fixed temperature in each comp.?	Compartment temperature	Dry freight use?	Lowest class temp. permitted in each comp.?	Lowest permitted temp. per comp.
	Minimal length	Maximal length	Internal width					
Compartment 1	2,56 m	7,10 m	0,83 m	No		No	No	0 °C
Compartment 2	3,74 m	8,30 m	1,58 m			No		-20 °C
Compartment 3			2,46 m			No		-20 °C

A2. Data of multitemp refrigeration unit

Cooling capacities at:	-20 °C
Nominal refr. cap. host unit	7 068 W
Individual refr. cap. evap. 1	4 416 W
Individual refr. cap. evap. 2	7 160 W
Individual refr. cap. evap. 3	5 975 W

Additional constraints on combinations of temperatures when "Fixed temperature in each comp.?"=No:

- Two compartments are never used at the same temperature.

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

B1. Sufficient refrigerating capacity?

Nominal refrigerating capacity:

Ok
5 584 W
Ok

Minimally required nominal refr. cap.

Effective refrigerating capacity

Minimal bulkhead thicknesses do not meet ATP requirements

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	1 167 W	0 °C	26%	1 931 W	7,10 m	0,83 m	-45 W	0 °C	0%	0 W	2,56 m	0,83 m
Compartment 2	-1 144 W	12 °C	0%	0 W	8,30 m	1,58 m	4 508 W	-20 °C	63%	7 160 W	8,30 m	1,58 m
Compartment 3	3 362 W	-20 °C	56%	3 362 W		2,46 m	-1 452 W	12 °C	0%	0 W		2,46 m
Collective:	4 529 W		83%	5 293 W			4 508 W		63%	7 160 W		

Individual refrigerating demand in each compartment	Maximum refrigerating demand in compartment 3					
	Refr./heat. demand	Tempe- ratures	Required rel. run. times	Available effect. refr. capacity	Internal length	Internal width
Compartment 1	300 W	0 °C	7%	300 W	2,56 m	0,83 m
Compartment 2	-1 938 W	12 °C	0%	0 W	8,30 m	1,58 m
Compartment 3	5 284 W	-20 °C	88%	5 570 W		2,46 m
Collective:	5 584 W		95%	5 869 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	300 W	0 °C	7%	300 W	2,56 m	0,83 m
Compartment 2	-1 938 W	12 °C	0%	0 W	8,30 m	1,58 m
Compartment 3	5 284 W	-20 °C	88%	5 570 W		2,46 m
Collective:	5 584 W		95%	5 869 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	300 W	0 °C	7%	300 W	2,56 m	0,83 m
Compartment 2	-1 938 W	12 °C	0%	0 W	8,30 m	1,58 m
Compartment 3	5 284 W	-20 °C	88%	5 570 W		2,46 m
Collective:	5 584 W		95%	5 869 W		

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Le / on : 2025/11/20

L'autorité compétente / The competent authority
Cemafrroid SAS
Responsable ATP / Responsible for the ATP

Le Président de CEMAFRROID SAS

TECNEA SAS représentée par son Président Géraud CAVALIER