

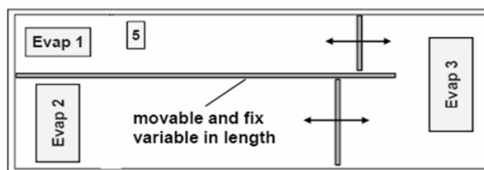
Configuration 5:

ATP registration numbers of vehicle

ATP type approval no. of refr. unit
ATP type approval no. of body
Vehicle ATP certificate no.
Vehicle identification no.

1012 corr1
114_2023
1,3,6,4,8,9,10,7,5

9034024_9034025_9034026_9034027_9034028_9034029_9034030_9034031_9034032



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	12,61 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		Internal width	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						
Compartment 1	2,56 m	8,46 m	7,10 m	No		No	Yes	0 °C
Compartment 2	3,74 m	8,46 m	8,30 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:

1. 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
Minimally required nominal refr. cap.	5 584 W
Effective refrigerating capacity	Ok
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	Temperatures	Required rel. run. times	Available effect. refr. capacity	Internal length	Internal width	Refr./heat. demand	Temperatures	Required rel. run. times	Available effect. refr. capacity	Internal length	Internal width
Compartment 1	3 310 W	-20 °C	75%	3 371 W	7,10 m	0,83 m	-45 W	0 °C	0%	0 W	2,56 m	0,83 m
Compartment 2	-1 742 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	1 413 W	0 °C	24%	1 413 W		2,46 m	-1 452 W	12 °C	0%	0 W		2,46 m
Collective:	4 724 W		99%	4 785 W			4 508 W		63%	7 160 W		

Individual refrigerating demand in each compartment	Maximum refrigerating demand in compartment 3					
	Refr./heat. demand	Temperatures	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	Temperatures	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	Temperatures	Required rel. run. times
Compartment 1	3 310 W	-20 °C	75%
Compartment 2	-1 706 W	12 °C	0%
Compartment 3	1 433 W	0 °C	24%
Collective:	4 743 W		99%

ATP type approval no. of refr. unit: tewer
Vehicle ATP certificate no.: fevfhus

Nom de l'autorité compétente:

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Le / on : 2025/11/25

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

Le Président de CEMAFRUID SAS

TECNEA SAS représentée par son Président Géraud CAVALIER

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Page: 1 of 1

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