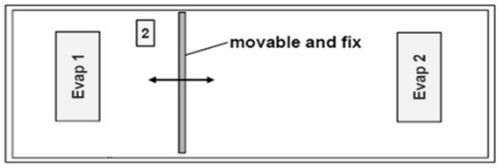
Configuration 2:



ATP registration numbers of vehicle

ATP type approval no. of refr. unit	M1172
ATP type approval no. of insulated box	222090
ATP type approval no. of body	GL-22-2090
Vehicle ATP certificate no.	921
Vehicle identification no.(VIN)	WSM000005TV073520
Insulated box serial number	61426617

Data of overall body	Internal dimensions L	W	H	Floor material	K value of outer body
	13,41 m	2,46 m	2,70 m	Alu	0,38 W/(m².°C)

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	53 mm	3,2

Dimensions / Use of Compartments	Internal length Minimal length	Maximal length		Fixed temperature in each comp.?	Compartment temperature	Dry freight use?	Lowest class temp. permitted in each comp.?	Lowest permitted temp. per comp.
Compartment 1	5,42 m	12,56 m		No	-20 °C	Yes	Yes	-20 °C
Compartment 2	0,80 m	9,75 m			20 °C	Yes		0 °C

A2. Data of multitemp refrigeration unit

Cooling capacities at:	-20 °C
Nominal refr. cap. host unit	8846
Individual refr. cap. evap. 1	9486
Individual refr. cap. evap. 2	6481

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.	**6 022 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: Refr./heat. demand	Tempe-ratures	Required rel. run. times	Available effect. refr. capacity	Internal length	Internal width	Maximum refrigerating demand in compartment 2: Refr./heat. demand	Tempe-ratures	Required rel. run. times	Available effect. refr. capacity	Internal length	Internal width
Compartment 1	***6 022 W***	-20 °C	63%	9 486 W	12,56 m	2,46 m	-1 073 W	20 °C	0%	0 W	5,42 m	2,46 m
Compartment 2	-1 390 W	20 °C	0%	0 W	0,80 m	2,46 m	***4 436 W***	-20 °C	68%	6 481 W	7,94 m	2,46 m
Collective:	6 022 W		63%	9 486 W			4 436 W		68%	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	6 022 W	-20 °C	63%	9 486 W	12,56 m	2,46 m
Compartment 2	-1 390 W	20 °C	0%	0 W	0,80 m	2,46 m
Collective:	***6 022 W***		63%	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	-1 073 W	20 °C	0%	0 W	5,42 m	2,46 m
Compartment 2	4 436 W	-20 °C	68%	6 481 W	7,94 m	2,46 m
Collective:	4 436 W		***68%***	6 481 W		

Le / *on* : 2026/10/01

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