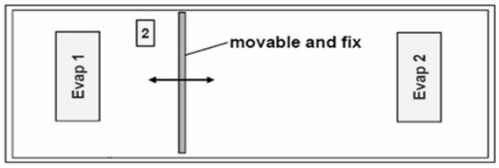
Configuration 2:



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.	920
Vehicle identification no.(VIN)	WSM000009TV073519
Insulated box serial number	61426616

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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