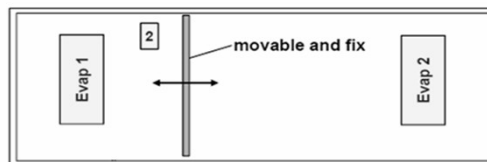


## Configuration 2:

### ATP registration numbers of vehicle

ATP type approval no. of refr. unit	P430U/24
ATP type approval no. of insulated box	222090
ATP type approval no. of body	GL-22 2090
Vehicle ATP certificate no.	668
Vehicle identification no.(VIN)	WSM000005TV059701
Insulated box serial number	61405986



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

## A. Input data

### A1. Data of insulated body

Data of internal bulkheads	Movable or fixed	Thickness	K value [W/m <sup>2</sup> .°C]
Transversal bulkhead (1→2)	movable	53 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					
Compartment 1	8,32 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	10004
Individual refr. cap. evap. 1	8730
Individual refr. cap. evap. 2	5609

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
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						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	6 022 W	-20 °C	69%	8 730 W	12,56 m	2,46 m	-874 W	20 °C	0%	0 W	8,32 m	2,46 m
Compartment 2	-1 390 W	20 °C	0%	0 W	0,80 m	2,46 m	3 439 W	-20 °C	61%	5 609 W	5,03 m	2,46 m
Collective:	6 022 W		69%	8 730 W			3 439 W		61%	5 609 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	6 022 W	-20 °C	69%	8 730 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		69%	8 730 W		

### B4. Maximum collective relative running time 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	6 022 W	-20 °C	69%	8 730 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		69%	8 730 W		

Le / on : 2026/05/11



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