CLAIMS

1. Product transport container (1) with a desired temperature range, comprising:
   - a box (2) made of insulating material delimiting a compartment opened upwards having a volume less than 150 liters and able to contain the products, the box (2) having a determined heat dissipation value;
   - a cover (4) made of insulating material adaptable on the box (2) to seal the compartment;
   - a diffusing divider wall (5) interposed between the box (2) and the cover (4) to delimit with the cover (4), a chamber with a surface (7) for receiving at least one refrigerated load (6) emitting a heat value, the cover (4) and the divider wall (5) comprising complementary means for locking/unlocking (9) with one another;

   the cover (4) and the divider wall (5) are independent from one another and comprise complementary articulation means (15) able to allow the pivoting of the cover (4) with respect to the divider wall (5) and along a pivoting edge (14), to enable the putting into place of the refrigerated load (6) inside the chamber;

   characterized in that the articulation means (15) of the cover (4) comprise at least one groove (16) disposed along the pivoting edge (14) of the cover (4) and facing the divider wall (5), a projecting ridge (17) with a circular cross-section borders the inner side of the groove (16), and the complementary articulation means (15) of the divider wall (5) comprise at least one complementary groove (18) at the projecting ridge (17) intended to engagingly receive said ridge (17) with pivoting capacity~~in that the heat energy emitted by the refrigerated load (6) and the thermal diffusion coefficient of the divider wall (5) are adjusted such that, at determined transport and conservation temperatures and for a desired duration after receiving the refrigerated load (6) and exposure of the container (1) to the transport temperature, the heat value diffused by the divider wall (5) to the compartment is equal to, or at most 20% greater than the heat value dissipated by the box (2)~~.

2. Container (1) according to claim 1, ***characterized*** in that the divider wall (5) is perforated (8) so as to constitute a means for adjusting the thermal diffusion coefficient.

~~3. Container (1) according to claim 1, ***characterized*** in that the cover (4) and the divider wall (5) are independent from one another and comprise complementary articulation means (15) able to allow the pivoting of the cover (4) with respect to the divider wall (5) and along a pivoting edge (14), to enable the putting into place of the refrigerated load (6) inside the chamber.~~

~~4.~~3.Container (1) according to claim ~~3~~1, ***characterized*** in that the cover (4) is able to pivot by an angle comprised between 10° and 60°.

~~5. Container (1) according to claim 3, ***characterized*** in that the articulation means (15) of the cover (4) comprise at least one groove (16) disposed along the pivoting edge~~

~~(14) of the cover (4) and facing the divider wall (5), a projecting ridge (17) with a circular cross-section borders the inner side of the groove (16), and the complementary articulation means (15) of the divider wall (5) comprise at least one complementary groove (18) at the projecting ridge (17) intended to engagingly receive said ridge (17) with pivoting capacity.~~

~~6.~~4. Container (1) according to claim 1, ***characterized*** in that the locking/unlocking means (9) of the cover (4) comprise two side strips (10), each projecting orthogonally from a side edge of the cover (4) and in the direction of the divider wall (5), each side strip (10) has at its free end, a lug (11) projecting in the direction of the opposite strip (10), and the locking/unlocking means of the divider wall (5) comprise side edges (12) projecting towards the cover (4) and in which are arranged notches (13) complementary to the side strips (10) and to the lugs (11).

~~7.~~5. Container (1) according to claim ~~3~~1, ***characterized*** in that the receiving surface (7) is split into two receiving zones (19) by a central strip (20) perpendicular to the pivoting edge (14).

~~8.~~6. Container (1) according to claim ~~7~~5, ***characterized*** in that the locking/unlocking means (9) comprise two front strips (21) projecting orthogonally from the edge of the cover (4) opposite the pivoting edge (14), and in the direction of the divider wall (5), the two front strips (21) being positioned in either side of the central strip (20) and delimit between them a form of restraint (22), the end of the central strip (20) facing the form of restraint (22) comprises a complementary form of restraint (23) to be locked between the two front strips (21).

~~9.~~7. Container (1) according to claim ~~8~~6, ***characterized*** in that the side ends of the front strips (21) are each provided with a projecting lug (24) intended to be snap-fitted in complementary notches (25) arranged on the edges (12) of the divider wall (5).

~~10.~~8. Container (1) according to claim 1, ***characterized*** in that the cover (4) and the divider wall (5) are molded in one same material.

~~11.~~9. Container (1) according to claim 1, ***characterized*** in that the refrigerated load (6) is constituted by a carbon dioxide mass in the form of snow or ice.

~~12.~~10. Method for loading a refrigerated load (6) into a container (1) implemented by the installation of ~~according to~~ claim 1, ***characterized*** in that, from a divider wall (5) supported by support means (27), on which is placed ~~the~~ a cover (4) with pivoting capacity with respect to the divider wall (5) and along a pivoting edge (14), the method comprises steps consisting of:

- making the cover (4) automatically pivot, by means (28) for automatic pivoting, with respect to the divider wall (5) to free up an access to ~~the~~ a chamber for receiving the refrigerated load (6);
- automatically supplying and pushing at least one refrigerated load (6) inside the chamber, by means (29) for automatic supplying and pushing.

~~13.~~11. Method according to claim ~~12~~10, ***characterized*** in that the cover (4) is pivoted by an angle comprised between 10° and 60°.

~~14.~~12. Method according to claim ~~12~~10, ***characterized*** in that it comprises an additional step consisting of automatically engaging ~~the~~ complementary locking means of the cover (4) and of the divider wall (5) to seal the refrigerated load (6) inside the chamber.

~~15.~~13. Method according to claim ~~12~~10, ***characterized*** in that it comprises an additional step consisting of automatically controlling the loading of the refrigerated load (6), and:

- in case of non-loading or partial loading, the cover (4) and the divider wall (5) are sent to a reject or correction station;
- in case of valid loading, the cover (4) and the divider wall (5) are sent to a closing station or a final station in view of their positioning on a box (2).

~~16.~~14. Installation (26) for the implementation of the method according to claim ~~12~~10, ***characterized*** in that it comprises:

- means (27) for supporting a divider wall (5) on which is placed a cover (4);
- means (28) for automatically pivoting the cover (4);
- means (29) for supplying a refrigerated load and for pushing the refrigerated load (6) inside the chamber.

~~17.~~15. Installation (26) according to claim ~~16~~14, ***characterized*** in that it comprises means (32) for automatically closing the cover (4) on the divider wall (5) for their locking onto one another after receiving the refrigerated load (6).

~~18.~~16. Installation (26) according to claim ~~16~~14, ***characterized*** in that it comprises means for controlling the loading of the refrigerated load (6).

~~19.~~17. Installation (26) according to claim ~~16~~14, ***characterized*** in that the pivoting means (28) are presented in the form of an actuator able to raise a front edge or side edges of the cover (4).

~~20.~~18. Installation (26) according to claim ~~16~~14, ***characterized*** in that it comprises means for generating (30) a block of dry snow or dry ice, and means for cutting the block into portions.