F25D

REFRIGERATORS; COLD ROOMS; ICE-BOXES; COOLING OR FREEZING APPARATUS NOT COVERED BY ANY OTHER SUBCLASS (refrigerated show cases "A47F 3/04"; thermally-insulated vessels for domestic use "A47J 41/00"; refrigerated vehicles, see the appropriate subclasses of classes "B60 - B64"; containers with thermal insulation in general "B65D 81/38"; heat-transfer, heat-exchange or heat-storage materials, e.g. refrigerants, or materials for the production of heat or cold by chemical reactions other than by combustion "C09K 5/00"; thermally-insulated vessels for liquefied or solidified gases "F17C"; air-conditioning or air-humidification "F24F"; refrigeration machines, plants or systems "F25B"; cooling of instruments and comparable apparatus without refrigeration "G12B"; cooling of engines or pumps, see the relevant classes)

Definition statement

This place covers:
Refrigerators; cold rooms; ice-boxes; cooling or freezing apparatus not covered by any other subclass.

Relationships with other classification places

F24F: "air-conditioning" means the supply of air to rooms or spaces by means which provide for the treatment of the air in at least two of the following ways: heating-cooling-any other kind of treatment, e.g. humidification.

Other household appliance fields are A47L (domestic washing), D06F (domestic laundry driers), F24B (domestic stoves).

References

Limiting references

This place does not cover:

<table>
<thead>
<tr>
<th>Classification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A47F 3/04</td>
<td>Refrigerated show cases</td>
</tr>
<tr>
<td>A47J 41/00</td>
<td>Thermally-insulated vessels for domestic use</td>
</tr>
<tr>
<td>B60 - B64</td>
<td>Refrigerated vehicles</td>
</tr>
<tr>
<td>B65D 81/38</td>
<td>Containers with thermal insulation in general</td>
</tr>
<tr>
<td>C09K 5/00</td>
<td>Heat-transfer, heat-exchange or heat-storage materials, e.g. refrigerants, or material for the production of heat or cold by chemical reactions other than by combustion</td>
</tr>
<tr>
<td>F04B, F04C, F04D</td>
<td>Cooling of engines or pumps</td>
</tr>
<tr>
<td>F17C</td>
<td>Thermally-insulated vessels for liquefied or solidified gases</td>
</tr>
<tr>
<td>F24F</td>
<td>Air-conditioning or air-humidification</td>
</tr>
<tr>
<td>F25B</td>
<td>Refrigeration machines, plants or systems</td>
</tr>
<tr>
<td>F25C</td>
<td>Production, working, storing or distribution of ice</td>
</tr>
<tr>
<td>G12B</td>
<td>Cooling of instruments and comparable apparatus without refrigeration</td>
</tr>
</tbody>
</table>
Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Description</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-refrigerated containers specially adapted for transporting or storing living parts whilst preserving, e.g. cool boxes, blood bags or straws for seminal fluid</td>
<td>A01N 1/0263</td>
</tr>
<tr>
<td>Cooling of specific food</td>
<td>A23B</td>
</tr>
<tr>
<td>Cooling of meat</td>
<td>A23B 4/06</td>
</tr>
<tr>
<td>Cooling of fruit</td>
<td>A23B 7/04</td>
</tr>
<tr>
<td>Cooling of ice cream</td>
<td>A23G 9/00</td>
</tr>
<tr>
<td>Cooling of food in general</td>
<td>A23L 3/36</td>
</tr>
<tr>
<td>Cooled garments</td>
<td>A41D 13/0053</td>
</tr>
<tr>
<td>Casings for protecting, packaging, dispensing articles for surgery</td>
<td>A61B 50/30</td>
</tr>
<tr>
<td>Containers specially adapted for medical or pharmaceutical purposes</td>
<td>A61J 1/00</td>
</tr>
<tr>
<td>Cooling of protective clothing</td>
<td>A62B 17/006</td>
</tr>
<tr>
<td>Heat insulating devices, e.g. jackets for flasks, for laboratory</td>
<td>B01L11/02</td>
</tr>
<tr>
<td>Conveyors</td>
<td>B65G</td>
</tr>
<tr>
<td>Laptop cooling</td>
<td>G06F 1/20</td>
</tr>
<tr>
<td>Coin-freed or like apparatus with heating or cooling means</td>
<td>G07F 9/105</td>
</tr>
<tr>
<td>Computer/electronics cooling</td>
<td>H05K 7/00</td>
</tr>
</tbody>
</table>

Special rules of classification

Devices not associated with refrigerating machinery: **F25D 1/00-F25D 9/00**

Devices associated with refrigerating machinery: **F25D 11/00-F25D 16/00**

Details or features of the devices covered by groups **F25D 1/00 - F25D 16/00**: **F25D 17/00-F25D 31/00**

Only classify a household appliance when a refrigerator or freezer is mentioned or when a refrigerator or freezer is shown in the drawings. Always circulate to the following household appliance fields:

- **A47L** (domestic washing), **D06F** (domestic laundry driers), **F24B** (domestic stoves).

Glossary of terms

*In this place, the following terms or expressions are used with the meaning indicated:*

<table>
<thead>
<tr>
<th>Device</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>means an enclosed space to be cooled; such devices being associated either with refrigerating machinery, e.g. in a refrigerator, or with other cold sources, e.g. in an ice-box.</td>
</tr>
</tbody>
</table>

**F25D 3/005**

*{combined with heat exchangers}*

Special rules of classification

Classify in **F25D 3/005** when only details of the heat exchanger are claimed.

When heat exchangers are combined with a cooling cycle: **F25D 16/00**.
When combined with or situated in refrigerators: F25D 11/006.

**F25D 3/02**

using ice, e.g. ice-boxes

**Special rules of classification**

Not only use of ice, but also PCM’s, i.e. Phase Change Materials, blue ice.

**F25D 3/06**

Movable containers

**Special rules of classification**

Classify also in F25D 2303/08.

**F25D 3/08**

portable, i.e. adapted to be carried personally

**References**

**Informative references**

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Special arrangement or features of devices using cold storage material</th>
<th>F25D 2303/08</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of cooled receptacles</td>
<td>F25D 2331/80</td>
</tr>
<tr>
<td>Lunch or picnic boxes</td>
<td>A45C 11/20</td>
</tr>
<tr>
<td>Drinking glasses</td>
<td>A47G 19/2205</td>
</tr>
<tr>
<td>Thermally insulated vessels with heat or cold storing elements or material for kitchen equipment</td>
<td>A47J 41/0044</td>
</tr>
<tr>
<td>Cooling bags for medical or therapeutic treatment of human body</td>
<td>A61F 7/10</td>
</tr>
<tr>
<td>Containers with thermal insulation in general</td>
<td>B65D 81/38</td>
</tr>
<tr>
<td>Materials undergoing a change of state from liquid to solid</td>
<td>C09K 5/06</td>
</tr>
<tr>
<td>Using latent heat</td>
<td>F28D 20/02</td>
</tr>
</tbody>
</table>

**Special rules of classification**

In case no details are claimed about cooling material, but only details about cooling box itself, no classification in F25D 3/08.

Special arrangements or features of devices using cold storage material are additionally classified in F25D 2303/08 and lower.

Features of the cooled receptacles are classified in F25D 2331/80 and lower.
F25D 3/10
using liquefied gases, e.g. liquid air {{for cooling semiconductor devices H01L 23/445}}

References
Informative references
Attention is drawn to the following places, which may be of interest for search:

| For cooling semiconductor devices | H01L 23/445 |

Special rules of classification
Only cooled rooms, otherwise classify in F25B 19/005
Classify in F25D 3/12 when CO2 snow (dry ice) is claimed or mentioned.

F25D 3/11
with conveyors carrying articles to be cooled through the cooling space

Special rules of classification

<table>
<thead>
<tr>
<th>Conveyors in general</th>
<th>B65G</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stationary devices with conveyors carrying articles to be cooled through the cooling space</td>
<td>F25D 13/06</td>
</tr>
<tr>
<td>By conveyors</td>
<td>F25D 25/04</td>
</tr>
<tr>
<td>Using solidified gases with conveyors carrying articles to be cooled through the cooling space</td>
<td>F25D 3/127</td>
</tr>
</tbody>
</table>

F25D 3/12
using solidified gases, e.g. carbon-dioxide snow

References
Informative references
Attention is drawn to the following places, which may be of interest for search:

| Solidifying carbon dioxide | C01B 32/55 |

Special rules of classification
Classify in F25D 3/10 when liquid N2 is claimed or mentioned.
F25D 3/127

{Stationary devices with conveyors carrying articles to be cooled through the cooling space}

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

| Using liquefied gases with conveyors carrying articles to be cooled through the cooling space | F25D 3/11 |
| Stationary devices with conveyors carrying articles to be cooled through the cooling space | F25D 13/06 |
| By conveyors | F25D 25/04 |
| Conveyors in general | B65G |

F25D 5/00

Devices using endothermic chemical reactions, e.g. using frigorific mixtures

Definition statement

This place covers:

Cooling by endothermic chemical reaction between substances triggered by for example rupturing/piercing a membrane.

F25D 7/00

Devices using evaporation effects without recovery of the vapour (butter or cheese dishes with cooling devices A47G 19/26)

Definition statement

This place covers:

The cooling effect is derived from the evaporation of water, for which a supply of heat is required.

References

Limiting references

This place does not cover:

| Vacuum coolers | F25D 31/00 |
| Butter or cheese dishes with cooling devices | A47G 19/26 |
| Evaporative coolers | F24F 5/0035, F28D 5/00 |

Special rules of classification

Classification of devices using evaporation effects without recovery of the vapour at ambient pressure.
F25D 11/00
Self-contained movable devices, e.g. domestic refrigerators

References

Limiting references

This place does not cover:

<table>
<thead>
<tr>
<th>By forced circulation</th>
<th>F25D 17/06</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purses, travelling bags or baskets, suitcases</td>
<td>A45C</td>
</tr>
<tr>
<td>Hand carts</td>
<td>B62B</td>
</tr>
<tr>
<td>Containers for storage or transport of articles or materials</td>
<td>B65D</td>
</tr>
</tbody>
</table>

F25D 11/006
{with cold storage accumulators}

Special rules of classification

In case cold accumulators are arranged inside a refrigerator.

Cold storage accumulators in devices not associated with refrigerating machinery and emphasize on heat exchanger itself, classify in F25D 3/005.

When heat exchangers are combined with a cooling system, classify in F25D 16/00.

F25D 11/022
{with two or more evaporators}

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

| Compression machines, plant, or systems, with several evaporator circuits, e.g. for varying refrigerating capacity | F25B 5/00 |

F25D 11/025
{using primary and secondary refrigeration systems}

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

| Machines, plant, or systems, using primary and secondary systems                   | F25B 25/005 |
F25D 11/027
{of the sorption cycle type}

Special rules of classification
Documents with one cooling compartment and sorption cycle classify in F25D 11/027 and F25D 11/00.

F25D 13/06
with conveyors carrying articles to be cooled through the cooling space

References
Informative references
Attention is drawn to the following places, which may be of interest for search:

| Using liquefied gases with conveyors carrying articles to be cooled through the cooling space | F25D 3/11 |
| Using solidified gases with conveyors carrying articles to be cooled through the cooling space | F25D 3/127 |
| By conveyors | F25D 25/04 |
| Conveyors in general | B65G |

F25D 15/00
Devices not covered by group F25D 11/00 or F25D 13/00, e.g. non-self-contained movable devices

Definition statement
This place covers:
Products cooled by a cooling system at a remote place;
Devices for freezing of pipes for forming a frozen ice plug in a section of a pipe to be repaired.
Movable devices implies also refrigerators.

Special rules of classification
Classify also in F25D 17/02 in case of cooling by circulating a coolant.
Classify also in F25D 17/06 in case of cooling by cold air.

F25D 16/00
Devices using a combination of a cooling mode associated with refrigerating machinery with a cooling mode not associated with refrigerating machinery

Special rules of classification
When heat exchangers are combined with a cooling system, classify in F25D 16/00.
In case cold accumulators are arranged inside a refrigerator, classify in F25D 11/006.
Cold storage accumulators in devices not associated with refrigerating machinery and emphasize on heat exchanger itself, classify in F25D 3/005.
**F25D 17/005**

{in cold rooms}

**Special rules of classification**

Classification in F25B 25/005 when primary refrigeration cycle is important.

**F25D 17/04**

for circulating air, e.g. by convection

**Definition statement**

*This place covers:*

Circulation of air by natural convection.

**References**

**Limiting references**

*This place does not cover:*

Forced circulation of air is classified in

F25D 17/06

**F25D 17/042**

{Air treating means within refrigerated spaces (air conditioning in general F24F)}

**References**

**Informative references**

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Treating air flowing to refrigeration compartments</th>
<th>F25D 2317/04</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preservation or chemical ripening of fruit or vegetables</td>
<td>A23B 7/00</td>
</tr>
<tr>
<td>Preservation of food in general</td>
<td>A23L 3/00</td>
</tr>
<tr>
<td>Disinfection, sterilization or deodorization of air</td>
<td>A61L 9/00</td>
</tr>
<tr>
<td>Filtering material for liquid or gaseous fluids</td>
<td>B01D 39/00</td>
</tr>
<tr>
<td>Ion generating apparatus</td>
<td>H01T 23/00</td>
</tr>
</tbody>
</table>

**Special rules of classification**

Treating air flowing to refrigeration compartments by purification (dehumidification, humidification, deodorizing, ozone generator and uv-lamp) is additionally classified in F25D 2317/041 and lower.

Treating air flowing to refrigeration compartments by creating a vacuum in a storage compartment to store products under vacuum is additionally classified in F25D 2317/043. Vacuum cooling is classified in F25D 31/00.
F25D 17/045

{Air flow control arrangements}

**Definition statement**

*This place covers:*

Air dampers; Air valves.

F25D 17/06

by forced circulation

**References**

*Informative references*

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Air flow control arrangements</th>
<th>F25D 17/045</th>
</tr>
</thead>
<tbody>
<tr>
<td>Special arrangements or features of forced air circulation within refrigerated spaces</td>
<td>F25D 17/06</td>
</tr>
<tr>
<td>Ventilator details</td>
<td>F04</td>
</tr>
</tbody>
</table>

**Special rules of classification**

Circulation of air by natural convection is classified in F25D 17/04.

Control of air circulation is also classified in F25D 17/06.

Special arrangements or features of forced air circulation within refrigerated spaces are additionally classified in F25D 17/06 and lower.

Additionally classify in F25D 21/002 in case of defrost control.

F25D 17/08

using ducts

**Definition statement**

*This place covers:*

Ducts for cooling by radiation, i.e. indirect cooling.

F25D 19/00

Arrangement or mounting of refrigeration units with respect to devices {or objects to be refrigerated, e.g. infra-red detectors}

**Definition statement**

*This place covers:*

Mounting of complete refrigeration units.
References

Limiting references
This place does not cover:

Mounting of components of refrigerating machinery F25D 23/006

F25D 21/002

{Defroster control}

References

Limiting references
This place does not cover:
Classification in F25B 47/02 when frost is removed by heat of the refrigeration cycle.

F25D 21/06

Removing frost (defrosting cycles F25B 47/02)

References

Limiting references
This place does not cover:
Classification in F25B 47/02 when frost is removed by heat of the refrigeration cycle.

Informative references
Attention is drawn to the following places, which may be of interest for search:

Alternate defrosting F25B 2347/021

F25D 21/14

Collecting or removing condensed and defrost water; Drip trays

References

Limiting references
This place does not cover:

Passenger or goods spaces characterized by condensed liquid drainage means B60H 1/3233
Removing condensate in air-conditioning F24F 13/22
Collecting and removing condensate for heat-exchangers F28B 9/08

Informative references
Attention is drawn to the following places, which may be of interest for search:

Special arrangements or features of collecting condense or defrost water F25D 21/14
Cooling refrigerating machinery F25D 23/003
Special rules of classification
Special arrangements or features of collecting condense or defrost water are additionally classified in F25D 21/14 and lower.

F25D 23/003
{for cooling refrigerating machinery}

Definition statement
This place covers:
Cooling of compressor and condenser of refrigerated enclosures.

References
Informative references
Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Special arrangements or details for cooling refrigerating machinery</th>
<th>F25D 2323/002</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling of compressor or motor</td>
<td>F25B 31/006</td>
</tr>
<tr>
<td>Condensers with refrigerant heat exchange tubes positioned inside or around a vessel containing water or pcm to cool the refrigerant gas</td>
<td>F25B 2339/046</td>
</tr>
<tr>
<td>Water-cooled condensers</td>
<td>F25B 2339/047</td>
</tr>
</tbody>
</table>

F25D 23/006
{for mounting refrigerating machinery components}

Definition statement
This place covers:
Mounting of components of refrigerating machinery.

References
Limiting references
This place does not cover:

<table>
<thead>
<tr>
<th>Mounting of complete refrigeration units:</th>
<th>F25D 19/00</th>
</tr>
</thead>
</table>

Special rules of classification
Special arrangements or features for cooling refrigerating machinery are additionally classified in F25D 2323/002 and lower.
F25D 23/02
Doors; Covers (F25D 23/08 takes precedence {locks or fastenings E05B 65/0042})

References
Limiting references
This place does not cover:

| Details not related to door itself, e.g. hinges, handles, actuators, dispensers are classified in | F25D 23/028 |
| Parts formed wholly or mainly of plastics materials | F25D 23/08 |
| Transparent doors | A47F 3/0434 |

Informative references
Attention is drawn to the following places, which may be of interest for search:

| Special arrangements or details of doors or covers not otherwise covered | F25D 23/028, F25D 23/04 |
| Night covers display case | A47F 3/0469 |
| Locks or fastenings | E05B 65/0042 |
| Doors | E06B |

Special rules of classification
F25D 23/08 takes precedence.

French doors are additionally classified in F25D 2323/021;

Doors that can be pivoted either left-handed or right-handed are additionally classified in F25D 2323/022.

Door in door constructions are additionally classified in F25D 2323/023.

F25D 23/028

{Details}

References
Limiting references
This place does not cover:

Details of refrigerator doors are classified in F25D 23/02.

Informative references
Attention is drawn to the following places, which may be of interest for search:

| Handles | A47B 95/02, F24C 15/024, E05F 11/54 |
| Locks or fastenings | E05B 65/0042, E05C |
| Hinges | E05D, F25D 2323/024 |
Special rules of classification

All details not related to refrigerator door itself, e.g. hinges, handles, actuators, dispensers are classified in F25D 23/028.

Door hinges are additionally classified in F25D 2323/024.

F25D 23/06

Walls (F25D 23/08 takes precedence; containers with thermal insulation B65D 81/38)

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Insulation</th>
<th>F25D 2201/00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collapsible walls</td>
<td>F25D 2323/061</td>
</tr>
<tr>
<td>Inflatable walls</td>
<td>F25D 2323/062</td>
</tr>
<tr>
<td>Details of cabinets, racks or shelf units</td>
<td>A47B 96/00</td>
</tr>
<tr>
<td>Shaping or joining of plastics; Shaping of substances in a plastic state, in general; after-treatment of shaped products, e.g. repairing</td>
<td>B29C</td>
</tr>
<tr>
<td>Foaming</td>
<td>B29C 44/00</td>
</tr>
<tr>
<td>Extrusion molding</td>
<td>B29C 48/00</td>
</tr>
<tr>
<td>Production of refrigerators</td>
<td>B29L 2031/7622</td>
</tr>
<tr>
<td>Insulation, layered products</td>
<td>B32B</td>
</tr>
<tr>
<td>Containers with thermal insulation</td>
<td>B65D 81/38</td>
</tr>
<tr>
<td>Insulation, vacuum panel</td>
<td>E04B 1/803</td>
</tr>
<tr>
<td>Supports for pipes, cables or protective tubing</td>
<td>F16L 3/00</td>
</tr>
<tr>
<td>Supports for pipes or cables inside other pipes or sleeves</td>
<td>F16L 7/00</td>
</tr>
<tr>
<td>Thermal insulation in general</td>
<td>F16L 59/00</td>
</tr>
</tbody>
</table>

Special rules of classification

F25D 23/08 takes precedence.

Insulation (with respect to heat or sound) is additionally classified in F25D 2201/00.

Collapsible walls are additionally classified in F25D 2323/061.

Inflatable walls are additionally classified in F25D 2323/062.
F25D 23/087

{Sealing strips}

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

| Magnetic gaskets                      | E05C 19/161 |

F25D 23/126

{Water cooler}

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

| Refrigerator doors; covers            | F25D 23/02  |
| Special arrangements or details of the water filter for the water/ice dispenser | F25D 2323/121 |
| Special arrangements or details of the water tank for the water/ice dispenser | F25D 2323/122 |
| Filtering devices                     | B01D 35/00  |
| Dispensing beverages                  | B67D        |
| Ice dispenser                          | F25C 5/22   |

Special rules of classification

Additionally classify in:

F25D 23/02 when details of the door are claimed.
F25C 5/22 when details of an ice dispenser are claimed.
F25D 2323/121 when special arrangements or details of the water filter are claimed.
F25D 2323/122 when special arrangements or details of the water tank are claimed.

F25D 25/00

Charging, supporting, and discharging the articles to be cooled

Special rules of classification

Additionally classify in:

F25D 2331/80: Type of cooled receptacles.
**F25D 25/02**

by shelves

**References**

*Informative references*

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Description</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Special arrangements or features of shelves with several possible configurations</td>
<td>F25D 2325/021</td>
</tr>
<tr>
<td>Special arrangements or features of shelves made of glass or ceramic</td>
<td>F25D 2325/022</td>
</tr>
<tr>
<td>Special arrangements or features of shelves made of wires</td>
<td>F25D 2325/023</td>
</tr>
<tr>
<td>Type of cooled receptacles</td>
<td>F25D 2331/80</td>
</tr>
<tr>
<td>Drawers, shelves</td>
<td>A47B</td>
</tr>
<tr>
<td>Show stands, hangers or shelves</td>
<td>A47F 7/00</td>
</tr>
</tbody>
</table>

**Special rules of classification**

Additionally classify in:

- F25D 2325/021: Special arrangements or features of shelves with several possible configurations
- F25D 2325/022: Special arrangements or features of shelves made of glass or ceramic
- F25D 2325/023: Special arrangements or features of shelves made of wires
- F25D 2331/80: Type of cooled receptacles.

**F25D 25/022**

*{Baskets}*

**Definition statement**

*This place covers:*

Wire baskets.

**F25D 25/025**

*{Drawers}*

**References**

*Informative references*

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Description</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of cooled receptacles</td>
<td>F25D 2331/80</td>
</tr>
<tr>
<td>Drawers</td>
<td>A47B</td>
</tr>
</tbody>
</table>

**Special rules of classification**

Additionally classify drawers opened by sliding doors in F25D 23/021.
F25D 25/04
by conveyors (in general B65G)

References
Informative references
Attention is drawn to the following places, which may be of interest for search:

| Using liquefied gases with conveyors carrying articles to be cooled through the cooling space | F25D 3/11 |
| Using solidified gases with conveyors carrying articles to be cooled through the cooling space | F25D 3/127 |
| Stationary devices with conveyors carrying articles to be cooled through the cooling space | F25D 13/06 |
| Conveyors in general | B65G |

Special rules of classification
Shelves or drawers which can be adjusted in height are classified in A47B 57/06.

F25D 27/00
Lighting arrangements (in general F21)

Definition statement
This place covers:
Lighting arrangements for lighting cooling enclosures, both inside and outside the enclosure.

Relationships with other classification places
Lighting in general: F21.

References
Informative references
Attention is drawn to the following places, which may be of interest for search:

| Special arrangements or features for lighting arrangements on the external side of the refrigerator, freezer or cooling box | F25D 2327/001 |
| Lighting devices | F21V 33/00 |
| Circuit arrangements for electric light sources | H05B 37/00 |

F25D 29/00
Arrangement or mounting of control or safety devices

References
Informative references
Attention is drawn to the following places, which may be of interest for search:

| Control issues | F25D 2600/00 |
| Control issues | F25D 2600/00 |
Means for sensing or measuring F25D; Sensors therefor F25D  F25D 2700/00
Arrangement or mounting of control or safety devices  F25B 49/00
Telecontrol of temperature  G05D 23/1905
Inventory  G06Q 10/087

Special rules of classification
F25D 17/06 takes precedence;
F25D 21/00 takes precedence;
F25B 49/02 takes precedence, classify in F25D 29/00 to distinguish a refrigerator over a refrigeration cycle.
F25B 5/00 takes precedence, classify in F25D 29/00 or F25D 11/022 to distinguish a refrigerator over a refrigeration cycle.
Additional classification of control issues in F25D 2600/00.
Additional classification of means for sensing or measuring and sensors therefor in F25D 2700/00.

F25D 29/005
(Mounting of control devices)

Definition statement
This place covers:
Mounting of control devices; Mounting of sensors to refrigeration devices

Special rules of classification
Mounting of sensors to refrigeration devices are classified in F25D 29/005/CCA.

F25D 31/00
Other cooling or freezing apparatus

Definition statement
This place covers:
Cooling by creating a vacuum.

References
Limiting references
This place does not cover:
Storing of products in a refrigerated enclosure under vacuum: F25D 2317/043
F25D 31/002
{Liquid coolers, e.g. beverage cooler (receptacle coolers F25D 31/006)}

References

Limiting references
This place does not cover:

| Receptacle coolers | F25D 31/006 |

Informative references
Attention is drawn to the following places, which may be of interest for search:

| Cooling of liquids with pour-throughs | F25D 2331/811 |

F25D 31/006
{specially adapted for cooling receptacles, e.g. tanks}

References

Informative references
Attention is drawn to the following places, which may be of interest for search:

| Type of cooled receptacles | F25D 2331/80 |

F25D 31/007
{Bottles or cans}

References

Informative references
Attention is drawn to the following places, which may be of interest for search:

| Type of cooled receptacles | F25D 2331/80 |

F25D 31/008
{Drinking glasses}

Definition statement

This place covers:
Pre-chilling of glasses.

References

Informative references
Attention is drawn to the following places, which may be of interest for search:

| Type of cooled receptacles; Glasses | F25D 2331/808 |