

Cold Store Solutions

Staying frosty in the cold storage industry

13 Terms Related to Cold Storage Facilities

Posted on [June 17, 2015](#) by [brittanypetroff](#) • Posted in [Cold Store](#) • Tagged [1Cold](#), [cold rooms](#), [cold storage](#), [cold storage terms](#), [cols store](#), [refrigeration terms](#) • [Leave a comment](#)

13 TERMS RELATED TO COLD STORAGE FACILITIES

HERE ARE SOME TERMS THAT ARE FREQUENTLY USED
IN RELATION TO COLD STORAGE FACILITIES:

1. ABSOLUTE ZERO TEMPERATURE

A STATE WHERE THE SUBSTANCE IS ALREADY COLD AND WHERE THE
TOTAL MOLECULAR MOTION HAS STOPPED, IT REFERS TO
TEMPERATURES OF $-273.15\text{ }^{\circ}\text{C}$ OR $-459.67\text{ }^{\circ}\text{F}$.

2. AMBIENT TEMPERATURE

THE TEMPERATURE OF A SURROUNDING ENVIRONMENT, FOR INSTANCE, THE TEMPERATURE IN A CERTAIN PART OF A **COLD STORE**.

3. BTU

THE ABBREVIATION FOR **BRITISH THERMAL UNIT**, IT REFERS TO THE AMOUNT OF HEAT REQUIRED TO RAISE THE TEMPERATURE OF ONE POUND OF WATER, BY ONE DEGREE FAHRENHEIT. IT USUALLY STARTS AT 39 DEGREES FAHRENHEIT (**3.889 DEGREE CELSIUS**) AND THE AMOUNT OF ENERGY IS APPROXIMATELY **1055 JOULES**.

4. DAMPER

A **VALVE** THAT CONTROLS THE AIRFLOW INSIDE THE COLD ROOM OR COLD STORE.

5. DEFROST CYCLE

A **PART OF THE REFRIGERATION CYCLE** WHERE THE EVAPORATOR FROST OR ICE BUILD-UP IS MELTED BY THE USE OF ELECTRIC HEAT STRIPS OR HOT GAS, IT IS **USUALLY INITIATED BY A DEFROST CONTROL**.

6. HUMIDITY

THE CONCENTRATION OF WATER VAPOUR OR MOISTURE IN THE ATMOSPHERE, THE VAPOUR BEGINS TO CONDENSE, EVENTUALLY **PRODUCING LIQUID AT 100 % HUMIDITY**.

7. HEAT EXCHANGER

A DEVICE THAT **TRANSFERS HEAT** FROM ONE MEDIUM TO ANOTHER.

8. INSULATION

A TYPE OF MATERIAL THAT CAN STOP THE TRANSFER OR FLOW OF HEAT WITHIN THE COLD STORAGE FACILITY.

9. LATENT HEAT

THE **AMOUNT OF HEAT** REQUIRED TO TURN A FROZEN SUBSTANCE INTO LIQUID OR VAPOUR (OR A LIQUID INTO VAPOUR) WITHOUT CHANGING THE TEMPERATURE.

10. REFRIGERANT

A SUBSTANCE THAT CAUSES A LOWER TEMPERATURE. IN THE INSTANCE OF COLD ROOMS, IT IS A **FLUID USED FOR THE REFRIGERATION CYCLE**.

11. SHELF-LIFE

THIS IS THE **PERIOD OF TIME WHICH AN ITEM REMAINS USABLE** OR IS STILL FIT FOR CONSUMPTION. THE SHELF-LIFE IS UNTIL THE DAY BEFORE THE EXPIRATION DATE.

12. SUPERHEAT

THE TEMPERATURE ABOVE THE BOILING POINT OF VAPOUR IS CALLED SUPERHEAT.

13. THERMOSTAT

A **DEVICE THAT AUTOMATICALLY REGULATES TEMPERATURE**, IT ALSO ACTIVATES WHEN THE AMBIENT TEMPERATURE REACHES A CERTAIN

ACTIVATES WHEN THE AMBIENT TEMPERATURE REACHES A CERTAIN
POINT.

1COLD Ltd

[\(http://1cold.com/\)](http://1cold.com/)

[\(https://wordpress.com/about-these-ads/\)](https://wordpress.com/about-these-ads/)

[Create a free website or blog at WordPress.com.](#) [The Skylark Theme.](#)

[Follow](#)

Follow “Cold Store Solutions”

[Build a website with WordPress.com](#)

%d bloggers like this: