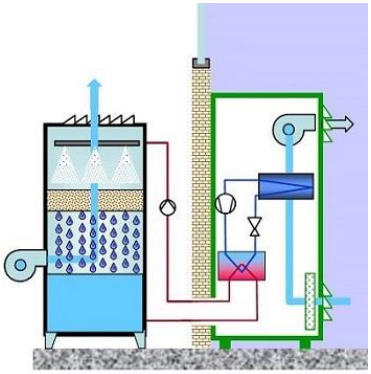
Nom: **Date:**

HVAC Learning.com

Exercise Booklet

Print this exercise booklet before studying the lesson on-line. It will enable you to write your answers to the HVAC learning exercises. You will thus be able to switch between reading or listening to the file on-line and writing in the booklet.



AIR CONDITIONERS – TECHNOLOGY – PART 2

English lesson
https://hvac-learning.com/air-conditioning-cooling/air-conditioners-training/air-conditioners-technology-part-2/

French version:
https://formation.xpair.com/cours/climatiseurs-partie-2.htm

For each exercise, you will write your answer, then you will study its correction on-line before going to the next exercise.
*If you cannot do an exercise, you will be able to study its correction directly, but **force yourself to write your answer** as often as possible.*

Note that between 2 exercises, you will find it necessary to study the course. As a warning, in the booklet, you will sometimes find the following indication:

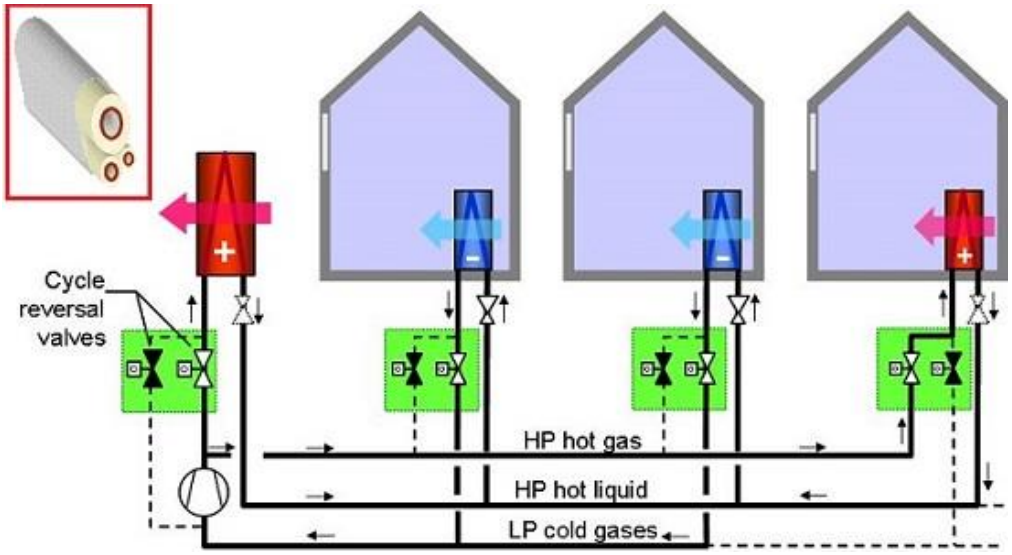
- *" **Study the course on-line before doing the next exercise**" or*
- *" **Study the course on-line before going to the next paragraph**"*

Only study the paragraphs or the exercises which have an equal or a lower level than the one your training requires.
NVQ Level = Vocational Certificate
A Level = High school Diploma
HND Level = Associate's Degree
MSC Level = Engineering Schools

Then, when you have completed a file, you will be able to assess your level on-line through a Multiple Choice Questionnaire in which you will only answer the questions related to the themes you have studied.
So now off you go and work well!
Good luck!
The Authors.

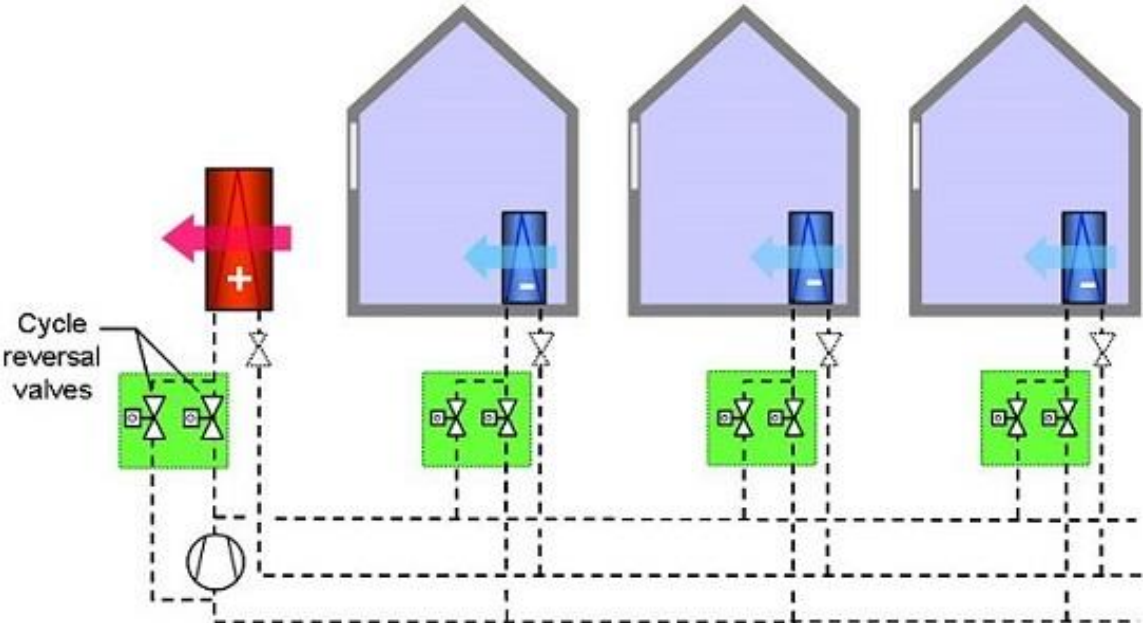
N°1 – VRV or VRF air conditioning systems training – HND level

Study the course on-line before treating the exercise.



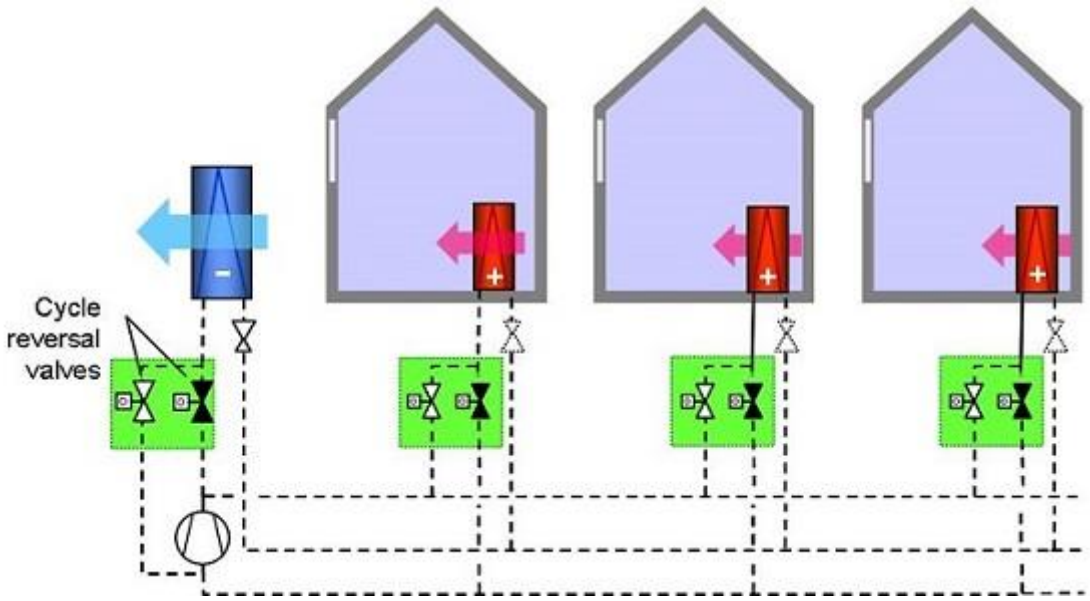
Question 1

The demand below is 100% cold.
Print out the diagram and colour in the refrigerating tubes which are fed, specifying whether they transmit hot or cold gases, or liquid.



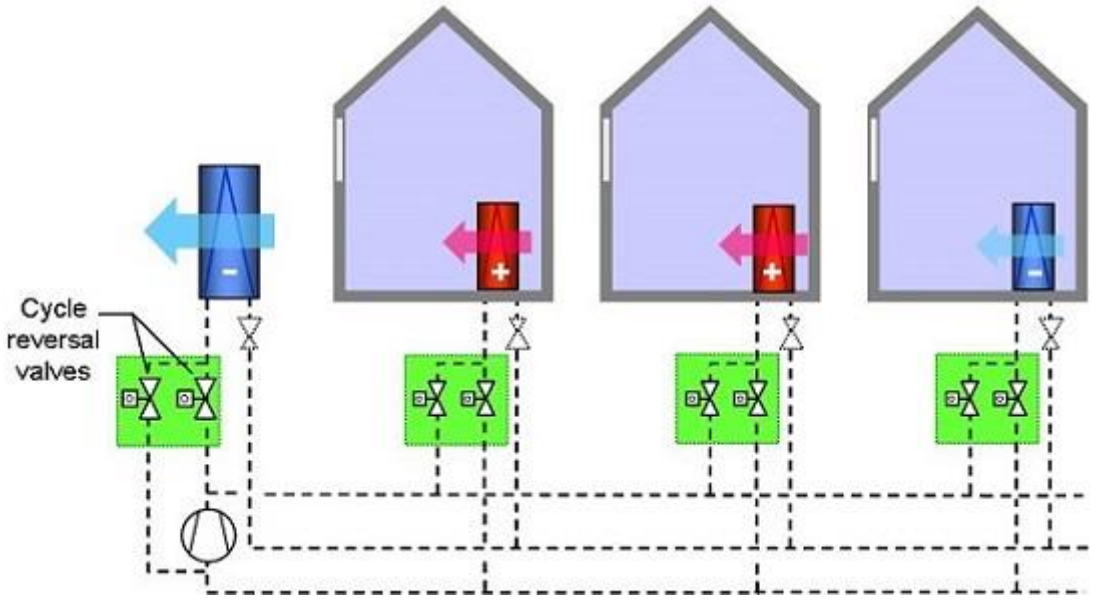
Question 2

The demand below is for 100% of heating.
Print out the diagram and colour in the refrigerating tubes which are supplied, specifying whether they transmit hot or cold gases, or liquid.



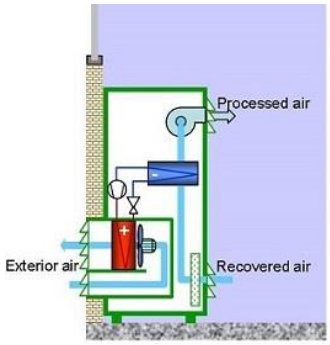
Question 3

The demand below is primarily for heating.
Print out the diagram and colour in the refrigerating tubes which are supplied, specifying whether they transmit hot or cold gases, or liquid.

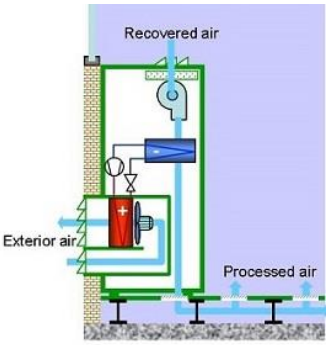


N°2 – Air conditioning cabinets training – HND level

Study the course on line.



Condenser cooled by air taken from outside and blown in bulk into the room atmosphere

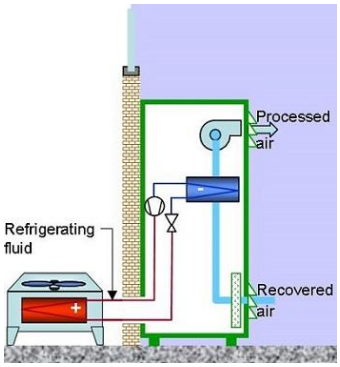


Condenser cooled by air taken from outside and blown into the raised floor

N°3 – Different types of air conditioning cabinets training – HND level

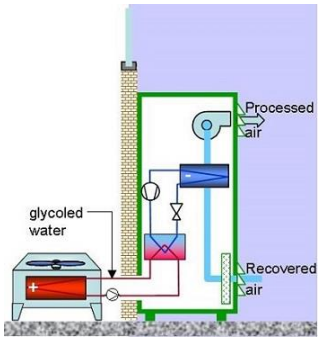
Question 1

– Specify how the air conditioning cabinet below diffuses the conditioned air (blowing in bulk into the atmosphere, or a raised floor, or ducted in a dropped ceiling).
– Specify how the cabinet condenser below is cooled (air taken from outside, an air cooled condenser, dry cooler, open cooling tower, closed cooling tower).



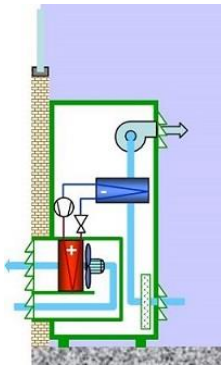
Question 2

– Specify how the air conditioning cabinet below diffuses the conditioned air (blowing in bulk into the atmosphere, or a raised floor, or ducted in a dropped ceiling).
– Specify how the cabinet condenser below is cooled (air taken from outside, an air cooled condenser, dry cooler, open cooling tower, closed cooling tower).



Question 3

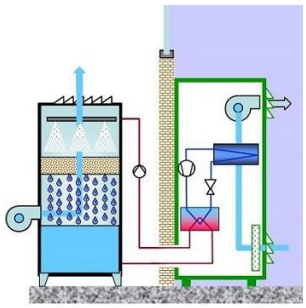
– Specify how the air conditioning cabinet below diffuses the conditioned air (blowing in bulk into the atmosphere, or a raised floor, or ducted in a dropped ceiling).
– Specify how the cabinet condenser below is cooled (air taken from outside, an air cooled condenser, dry cooler, open cooling tower, closed cooling tower).



N°4 – Different types of air conditioning cabinets (contd.) – A level

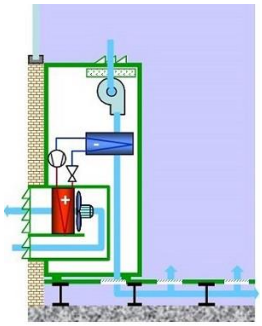
Question 1

– Specify how the air conditioning cabinet below diffuses the conditioned air (blowing in bulk into the atmosphere, or a raised floor, or ducted in a dropped ceiling).
– Specify how the cabinet condenser below is cooled (air taken from outside, an air cooled condenser, dry cooler, open cooling tower, closed cooling tower).



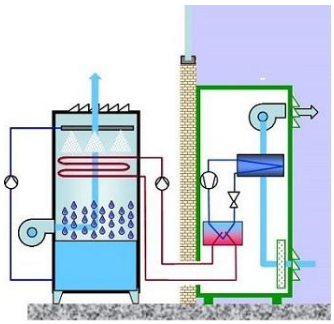
Question 2

– Specify how the air conditioning cabinet below diffuses the conditioned air (blowing in bulk into the atmosphere, or a raised floor, or ducted in a dropped ceiling).
– Specify how the cabinet condenser below is cooled (air taken from outside, an air cooled condenser, dry cooler, open cooling tower, closed cooling tower).



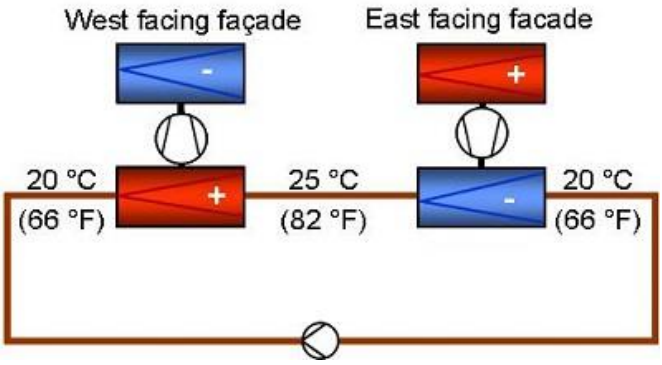
Question 3

– Specify how the air conditioning cabinet below diffuses the conditioned air (blowing in bulk into the atmosphere, or a raised floor, or ducted in a dropped ceiling).
– Specify how the cabinet condenser below is cooled (air taken from outside, an air cooled condenser, dry cooler, open cooling tower, closed cooling tower).



N°5 – Water source heat pump systems training – HND level

Study the course on line.



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