# **Pressure Enthalpy Quiz 2**

**Due** May 17 at 11:59pm

Points 11

**Questions** 11

Available May 3 at 8am - May 17 at 11:59pm 15 days

Time Limit 60 Minutes

## Instructions

Please have a calculator, and something to write with/on handy.

This quiz was locked May 17 at 11:59pm.

#### Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	20 minutes	11 out of 11
LATEST	Attempt 1	20 minutes	11 out of 11

Score for this quiz: **11** out of 11 Submitted May 17 at 1:09pm This attempt took 20 minutes.

**Question 1** 

1 / 1 pts



The compressors used in the shop have the following parameters.

Calculate the displacement of the compressor.

Your Answer has to be in Cubic feet per hour.

The stroke of the compressor 1.99 is inches long

The number of Pistons 5

The RPM 1750

The Bore of the Compressor is 1.15 inches

Use "3.1416" as pi

Correct!

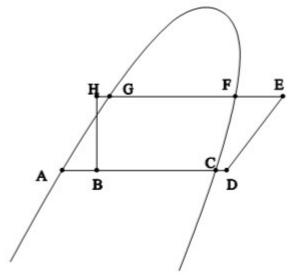
627.8

orrect Answer

627.99 margin of error +/- 10

Question 2 1 / 1 pts

Point on Cycle	Enthalpy (btu/lb)	Specific Volume
		(cuft/lb)
A	15	XXXXXXXXXX
В	36	XXXXXXXXXX
C	104	XXXXXXXXXX
D	113	0.84
E	130	XXXXXXXXXX
F	118	XXXXXXXXXX
G	41	XXXXXXXXXX
Н	36	XXXXXXXXXX





The compressors used in the shop have the following parameters. Calculate the displacement of the compressor and provide the Capacity of the system in BTU/Hr.

Use two decimal places in your calculation.

The stroke of the compressor 1.45 is inches long

The number of Pistons 6

The RPM 1750

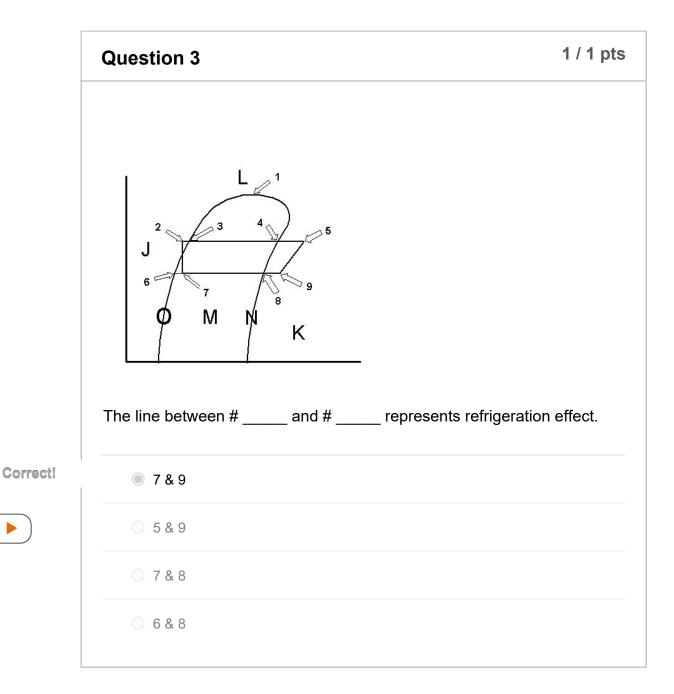
The Bore of the Compressor is 2.68 inches Square

Correct!

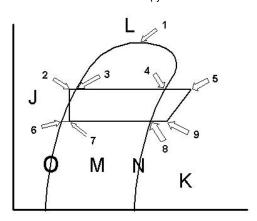
273,361.1

orrect Answer

273,361 margin of error +/- 200



Question 4 1 / 1 pts



The line between # \_\_\_\_ and # \_\_\_\_ represents desuperheating.

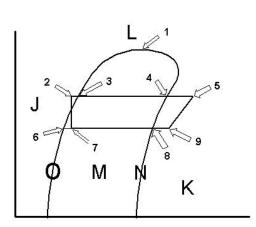
- 0 6 & 8
- 7 & 9
- 0 7 & 8

Correct!

5 & 4

## Question 5 1 / 1 pts





The line between # \_\_\_\_ and # \_\_\_\_ represents subcooling.

Correct!

0 6 & 8		
0 7 & 9		
O 5 & 9		
© 2 & 3		

# 1 / 1 pts **Question 6** M K The line between # \_\_\_\_ and # \_\_\_\_ represents the latent heat added to the refrigerant. 7 & 9 0 6 & 8 Correct! 0 7 & 8 0 5 & 9

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	Question 7	1 / 1 pts
	As you increase the temperature of a superheated vapour, its d	ensity:
	Stays the same	
	None of the above	
Correct!	Decreases	
	Increases	
	Question 8	1 / 1 pts
	Temperature change has the same effect on volume for both a superheated or saturated vapour.	
	○ True	
Correct!	False	



Question 9	1 / 1 pts
Lines of constant vapour compose refrigera	determine what percentage of liquid and nt in a saturated state.
Entropy	
Density	

6/2021	Pressure Enthalpy Quiz 2: Pressure Enthalpy&Refrigerants - HRA	AP-10004-0 - 50046.202123
Correct!	Quality	
	Density	
	Question 10	1 / 1 pts
	Density = 1 / Specific Volume	
Correct!	True	
	False	
	Question 11	1 / 1 pts
	When you run the same compressor at a lower SST, your compressor must do work per ton of cooling.	
	Directly Proportional	
	Less	
	The Same	
Correct!	More	
	I .	

Quiz Score: 11 out of 11