

# 09/23 Expert communication

<b>Communication channel</b>	Wechat
<b>Date</b>	09/23
<b>Time</b>	19:00PM-22:00PM
<b>Attendees</b>	All team John Xu (expert)

## Agenda

1. Is it possible to remove the whole cooling system? The whole cooling system requires a whole shipping container. If we can replace the whole cooling system by a simple fan or remove it, we can put the whole rendering system into one container.

## Notes

1. It is possible to remove the cooling system if the standard permit to directly let steam into the air.
2. There will be safety concerns. The steam will be condensed into water. Water drops on the machine will cause electricity safety concerns.
3. Another use of the whole cooling system is it can be used to control the temperature by adjusting the vacuum pump.
4. The purification equipment do not need to be included because client mentioned they are fine with the crude oil grade.
5. Working principle for cooling system:
  - a. How water go to cooling tower become hot water.
  - b. Cold water go to cooling water tank
  - c. Cold water then go to condenser to the cold system
6. Waste water system need to included in the system. The waste water can be collected first and then send to the factory to process it.
7. Washing tower and UV to process the air left in the condenser.
8. Biofilter can also be used to process the waste air.
9. Water tank can be put under the cooling tower.
10. Waste air need to processed and then can be collected first and then process it.

## Action Items

Action item	Owner	Deadline
Keep the whole cooling system	All team	09/23

## Screenshots of communication with experts

Part of the communication is via wechat and part of the communication is via wechat voice.

2019年9月23日 下午7:39

Hi, we are thinking of exclude the cooling system for the cooker from the steam in the system to save space. Put the whole system in one container. Could you provide this kind of system to us?



must use condenser and cooling tower. it will produce negative pressure when use condenser

2019年9月23日 下午7:44



it produce negative pressure in cooker, increase evapariate speed

Can we get use the pump to take the air off and we do not use the whole cooling system and the condenser. Is is possible to just let the air out from the dust collector?



2019年9月23日 下午7:49



The vacuum station function is same to pump



The crude oil is industrial oil.



not industrial oil, just insect oil

But in the file you sent me, it said the final oil is industrial oil?



No, it will become industrial oil after another type machine to process crude oil from poultry

2019年9月13日 下午1:10

What kinds of machine do we need?



2019年9月13日 下午1:10



Our machine only produce crude oil from insect

I got it.



I do not know, it is soap making machine, not our machine, i am not professional in soap manufacturing.



Ok, I got it



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2019年9月23日 下午7:49



The vacuum station function is same to pump

What do you mean negative pressure in the cooker?



the steam temperature is about 100 °C, it is high

Sorry. I didn't understand.



Our system is in the open area. There is nearly nobody near to it.



Is it possible to exclude the all cooling system and let the air out?



Is it possible to manufacture this design?



2019年9月23日 下午7:55







John Xu



could i speak with you in chinese by Wechat voice?

Yes. Definitely sure. Me and my colleague are together. We could have a small meeting. She can speak Chinese.



2019年9月23日 下午8:06



📞 通话时长 09:14

通话被其他应用中断 [重新拨打](#)

通话时长 01:27 📞





2019年9月23日 下午8:14



This video is more clear

2019年9月23日 下午8:22

Thank you so much. It's clearer now.



You are welcome

2019年9月23日 下午8:32

We get some questions about the cooker. Is it possible to give another call?



2019年9月23日 下午8:54

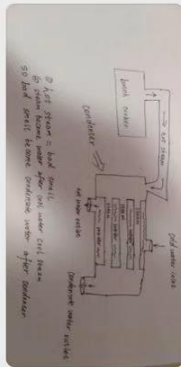




2019年9月23日 下午9:17



📞 通话时长 22:16



Thank you! You helped a lot!



2019年9月23日 下午9:23



Hot water go to cooling tower,  
become cold water, cold water go to  
cooling water tank, then go to  
condenser to cold steam



You are welcome

Another question is we still need air  
processing system and water  
processing system after the vacuum  
pump?



Thank you! You helped a lot!



2019年9月23日 下午9:23



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You are welcome

Another question is we still need air  
processing system and water  
processing system after the vacuum  
pump?



Will all the air after the condenser  
will be in water?



If your environment protection is  
strict, you need waste water  
processing machine.

How about the air left in the  
condenser?





John Xu



... some air become water, some air go out as waste air. You can use washing tower and UV to process them again. you can use biofilter to process waste air

2019年9月23日 下午9:29

Another question is do we put the water tank directly under the cooling tower? Or it put next to the cooling tower?



Based on the drawing , it is next to it?



you can put water tank under cooling tower directly. we put water tank to next cooling tower because it is very high for container (two machines together, one is up, one is down)

Ok. Thank you!



Thank you so much for your advice!

