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CHAPTER V

CONCLUSION

5.1 Conclusion

The summaries from this final project:

1. Conventional and Variable Speed Drive control system have been gained to control the evaporator.
2. The cooling time of VSD control method is more efficient than conventional control method with the cooling time with temperature setting of 22°C and 24°C is 3.6 and 2 minutes respectively.
3. Motor fans speed influencing the evaporator causes the increase of pressure on P2 and P3 and decrease of pressure on P1 and P4.
4. Highest COP value is of conventional control method with the value of 3.6. This value is influenced by the air mass flow rate.

5.2 Recommendation

The future research needs to add more variation on components of evaporator, condenser, and compressor in order to enhance the performance of vapor compression refrigeration system.