

Analisa Performance Sistem Pendingin Mini Chiller Kapasitas 1,5 PK

Ade Verliandri¹⁾, Suryadimal²⁾

¹⁾Jurusan Teknik Mesin, ²⁾Universitas Bung Hatta (UBH)
Jl. Gajah Mada No. 19 Olo Nanggalo Padang, Sumatera Barat 25143
Email : adeverliandri151@gmail.com Email : suryadimal@bunghatta.ac.id

Abstrak

Mini Chiller merupakan mesin pendingin yang dirancang memiliki fungsi hampir sama dengan mesin water chiller pada umumnya, pembuatan Mini Chiller yaitu dengan memodifikasi mesin pendingin AC Split menjadi sebuah Mini Chiller. Berdasarkan jenis dan unjuk kerja dari setiap komponen mesin pendingin, dapat dirancang suatu sistem Mini Chiller yang sesuai dengan fungsinya. Tujuan penelitian ini yaitu untuk menganalisa nilai *Coeffisien Of Performance* (COP) dan Menganalisa nilai Efisiensi Energi Rasio (EER) pada mesin pendingin mini Chiller dimana dalam penelitian ini seluruh pengambilan data dilakukan dengan mencatat hasil pengamatan pada thermometer digital setiap 5 menit. Penelitian ini dilakukan dengan memvariasikan kecepatan udara dan laju aliran massa di FCU. Dimana nilai laju aliran massa air 0,178 m³/min, 0,196 m³/min, 0,128 m³/min, 0,226 m³/min, 0,247 m³/min dengan memvariasikan kecepatan udara pada FCU 40-60 m/s. Dari penelitian tersebut didapatkan bahwa pengaruh laju aliran massa air terhadap kerja kompresor terlihat trend daya kompresor naik sering bertambah penyerapan masa air di FCU, Nilai terendah kerja kompresor berkisar 45,75 W dan nilai tertinggi 45,79 W pada laju aliran masa air 0,247 kg/s, dan terjadi peningkatan penyerapan kalor di evaporator seiring bertambah besarnya laju masa air penyerap kalor di fcu. Nilai cop rata rata berkisar 3,58 dan nilai cop tertinggi 3,59, sementara nilai cop terendah 3,57. EER mesin pendingin di pagi hari cenderung stabil rata rata nilai EER 12,5 dan pada siang terbukti EER mempunyai harga yang tertinggi 12,56.

Kata kunci : Mini Chiller, Coefficient Of Performance (COP), Energy Efficiency Ratio (EER), Refrigeran R22

1. Pendahuluan

Indonesia merupakan negara kepulauan dimana secara Astronomis, posisi lintang terletak koordinat lintang utara 6° - hingga koordinat lintang selatan 11° dan berdsarkan titik bujur 95° BT (Bujur Timur) – 141° BT (Bujur Timur). Pada daerah ditas kecenderungannya wilayah Indonesia memiliki kondisi yang rata rata panas yang disebabkan karena meningkatnya temperatur udara di atmosfer secara terus-menerus, efek rumah kaca dan juga penipisan lapisan ozon. Untuk mencapai kenyamanan termal orang yang berada didalam ruangan, maka diperlukan sistem pengkondisian udara/ mesin refrigrasi khususnya sistem pendinginan. (Nurhalim et al., 2021).

Di zaman yang semakin berkembang ini banyak industri besar, perkantoran, perumahan maupun kendaraan di Indonesia yang dilengkapi dengan *Air Conditioner* (AC) dengan tujuan untuk mengkondisikan dan menyegarkan udara ruangnya. Penggunaan AC split pada industri,

gedung-gedung, dan perkantoran yang berkapasitas besar sangatlah tidak efektif karena akan memerlukan jumlah AC yang cukup banyak dan penggunaan energi listrik yang cukup besar, maka dari itu para ilmuwan berusaha menciptakan alat pengkondisian udara yang mampu mengkondisikan udara ruangan yang berkapasitas besar salah satunya yaitu sistem pendingin chiller. (Metty et al., 2010).

Chiller merupakan sebuah mesin yang mempunyai fungsi utama yaitu mendinginkan air pada sisi evaporatornya. Air dingin tersebut akan disalurkan ke mesin penukar kalor Fan Coil Unit (FCU). Dari serangkaian komponen yang bekerja dalam mesin refrigrasi, performansi mesin pendingin atau refrigrasi disebut dengan *Coefficient Of Performance* (COP). Mesin refrigrasi yang memiliki kerja yang baik adalah mesin mesin yang memiliki nilai COP yang tinggi. (Dharma, 2000).

Penelitian yang dilakukan Yudisworo dkk, 2014, tentang cooling unit performance analysis

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