

Pengujian kapasitas pendinginan untuk AC split di ruang kalorimeter dengan menggunakan metode tidak langsung menurut JIS C 9612-1994

Deskripsi Dokumen: <http://lib.ui.ac.id/bo/uibo/detail.jsp?id=20241621&lokasi=lokal>

Abstrak

There are some method to obtain cooling capacity value from a unit air conditioning. Those method are direct and indirect system. Both method direct and indirect are based on characteristic of air which will be cooled. Characteristic of air can be seen in psychrometric diagram.

This paper use indirect method that is used to obtain Cooling capacity, efficiency energy ratio (EER), etc. Air cooling which is produced by air conditioning unit will move into tunnel enthalpy/cord tester. In this place, the air can be seen all of properties although only two variabel are wet-bulb and dry-bulb temperature that is known previously. By knowing properties of air that is cooled and the air which is set-up become temperature of room, its 27°C, so The enthalpy of air can be obtained by that relation. After enthalpy value is determined the value of cooling capacity can be found easily.

The air conditioning test room is called room calorimeter that refer JIS 9612 C-1994. It consist of indoors and outdoor room. Indoors room is placed evaporator unit and outdoors room are placed condenser, compressor, expansion valve unit of air conditionig unit that will be test.