Dil. At mospheric air at 1.0132 bar at dry bulb temp. (DBT) of 26°C.

a wet bulb temp. (WBT) of 26°C.

Compute - @ Partial premise of water vapour in air @ specific humaidity.

C dew point temperature, @ relative humidity, @ degree of saturation.

Det enthalpy of mixture.

Q.2. A winter air conditioner operating at steady state takes outside air at 120c, 100 Kla and relative humidity of 50%. at a rate of 50 m³/min. The air is heated first to 20°C. by patring the air through the heating section and the humidified to achieve higher level of comfort.

3the temp. inside the room is to be maintained at 24°C and 65°4°C relative humidity, determine the rate of heat trouster to the dir and the rate of steam added to the air in the steam added to the air.

T=12°C. Tell T2-2°C.

Q.3. A Simple R-12 (Freon-12) plant is to develop 5 tonner of refrigeration. The condenser and evaporator temp. are to be 40°C and -10°C respectively. Determine; @ the refrigerant flow rate (in kg/5) (b) the volume flow rate handled by comprettor (ien m3/s). (c) compressor dis charge temp. (d) the pressure ratio & é heat rejected to compress condensor in kw. Deflash gas perentage after throtting. (1) COPI DE LOS (h) power required to sun the compressor

De ver the Steam tables of R-12.

data for above questions.

\*\*R-12 data \*\* given ean be accurred through link in mail.

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