

Dorin Software - 17.07 (Ne répond pas)

HOME | OPTIONS | **Calculation - CD**

Refrigerant: R744_CO2
 Range: All models
 Model: CD 3500M
 Voltage / phases / frequency: 550-600 V / 3 / 60 Hz
 Operating mode: Transcritical
 Standard conditions:
 Evaporating temperature: 8 °F
 Condensing temperature: 32 °F (505.5 psi)
 Gas cooler pressure: 1334 psi
 Suction temperature: 20 °F
 Evaporator outlet temperature: 12 °F
 Gas cooler outlet temperature: 96.8 °F
 Liquid subcooling: 0 Δ°F

Calculate

Tabulated calculation


Overall dimensions [mm]

Accessories

Download documentation

Print

Export coefficients



A graph showing the critical pressure (pc) in psi on the y-axis (ranging from 0.0 to 1.0) versus the evaporating temperature (Te) in °F on the x-axis (ranging from 0.0 to 1.0). The plot area is currently empty with a dashed grid.

A graph showing pressure (p) in psi on a logarithmic y-axis (ranging from 10⁻⁷ to 10⁻¹) versus enthalpy (h) in BTU/lb on the x-axis (ranging from 0.0 to 1.0). The plot area is currently empty with a dashed grid.

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Refrigerant: R744_CO2

Range: All models

Model: CD 3500M

Voltage / phases / frequency: 550-600 V / 3 / 60 Hz

Operating mode: Subcritical

Standard conditions:

Evaporating temperature: 10 °F

Condensing temperature: 85 °F (1033.1 psi)


Gas cooler pressure: 1305.33 psi

Superheat: 40 Δ°F

Evap. outlet superheat: 11 Δ°F

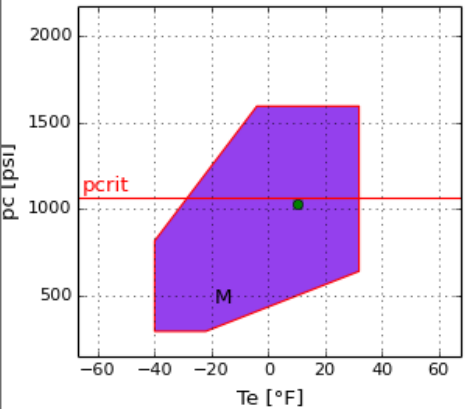
Gas cooler outlet temperature: 86 °F

Liquid temperature: 66 °F



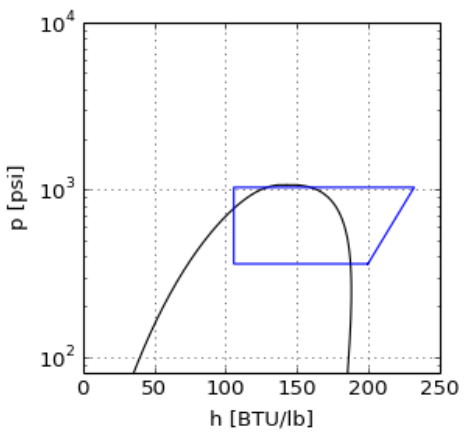
CD 3500M - QE = 265200 BTU/h

- Standard conditions
- At evaporator
- At compressor



M = Standard application

No. cylinders	4	
Bore	1.77	[inch]
Stroke	1.89	[inch]
Displacement @ 50 Hz	938	[CFH]
Displacement @ 60 Hz	1126	[CFH]
Suction valve (socket welding)	0.87	[inch]
Suction valve (butt welding)	1.10	[inch]
Discharge valve (socket welding)	0.87	[inch]
Discharge valve (butt welding)	1.10	[inch]
Oil charge	5.5	[lb]
Net weight	412.3	[lb]



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 Operating mode: Transcritical
 Standard conditions:
 Evaporating temperature: 0 °F
 Condensing temperature: 85 °F (1033.1 psi)
 Gas cooler pressure: 1334 psi
 Suction temperature: 30 °F
 Evaporator outlet temperature: 1 °F
 Gas cooler outlet temperature: 66 °F
 Liquid subcooling: 32 Δ°F

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