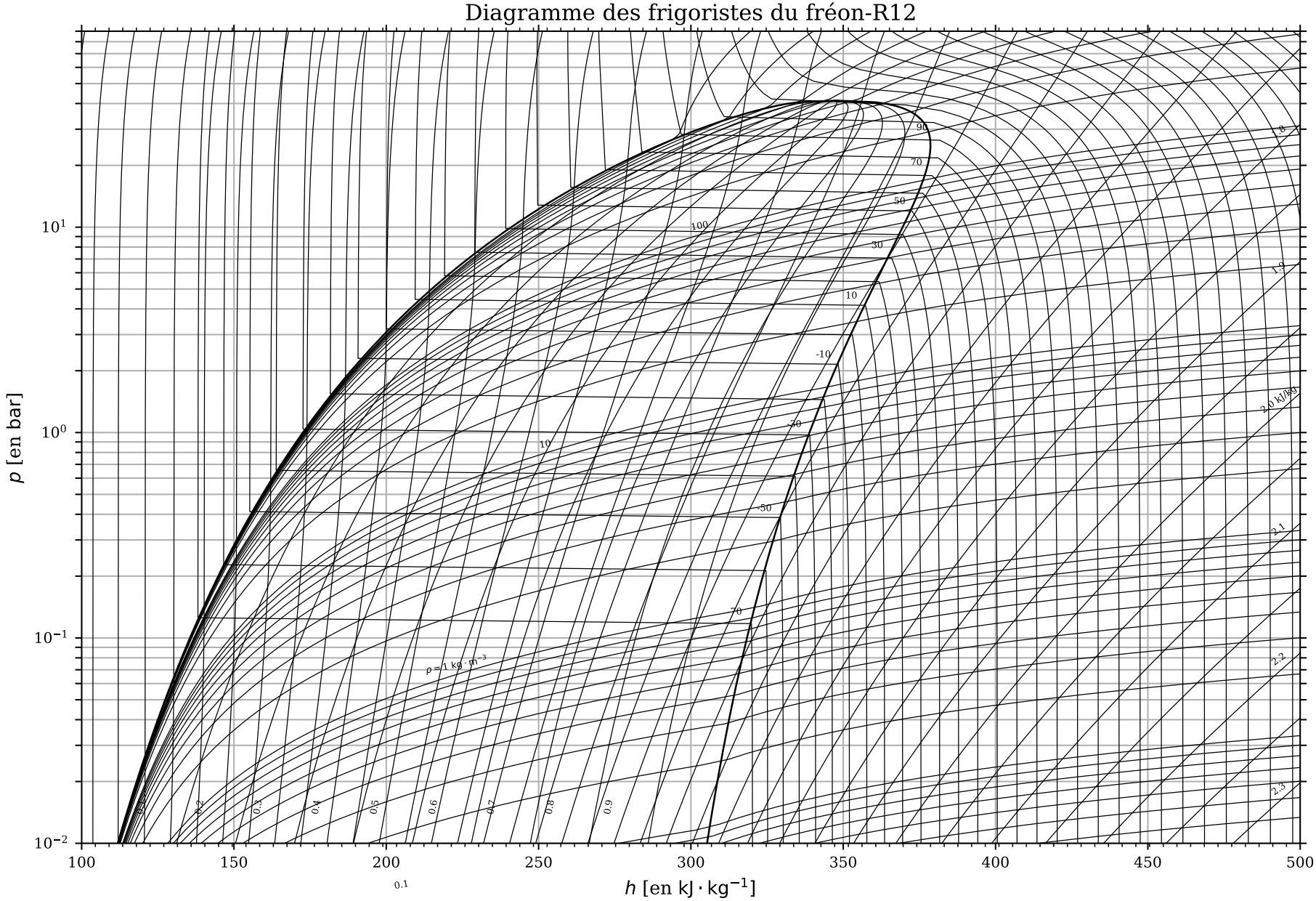
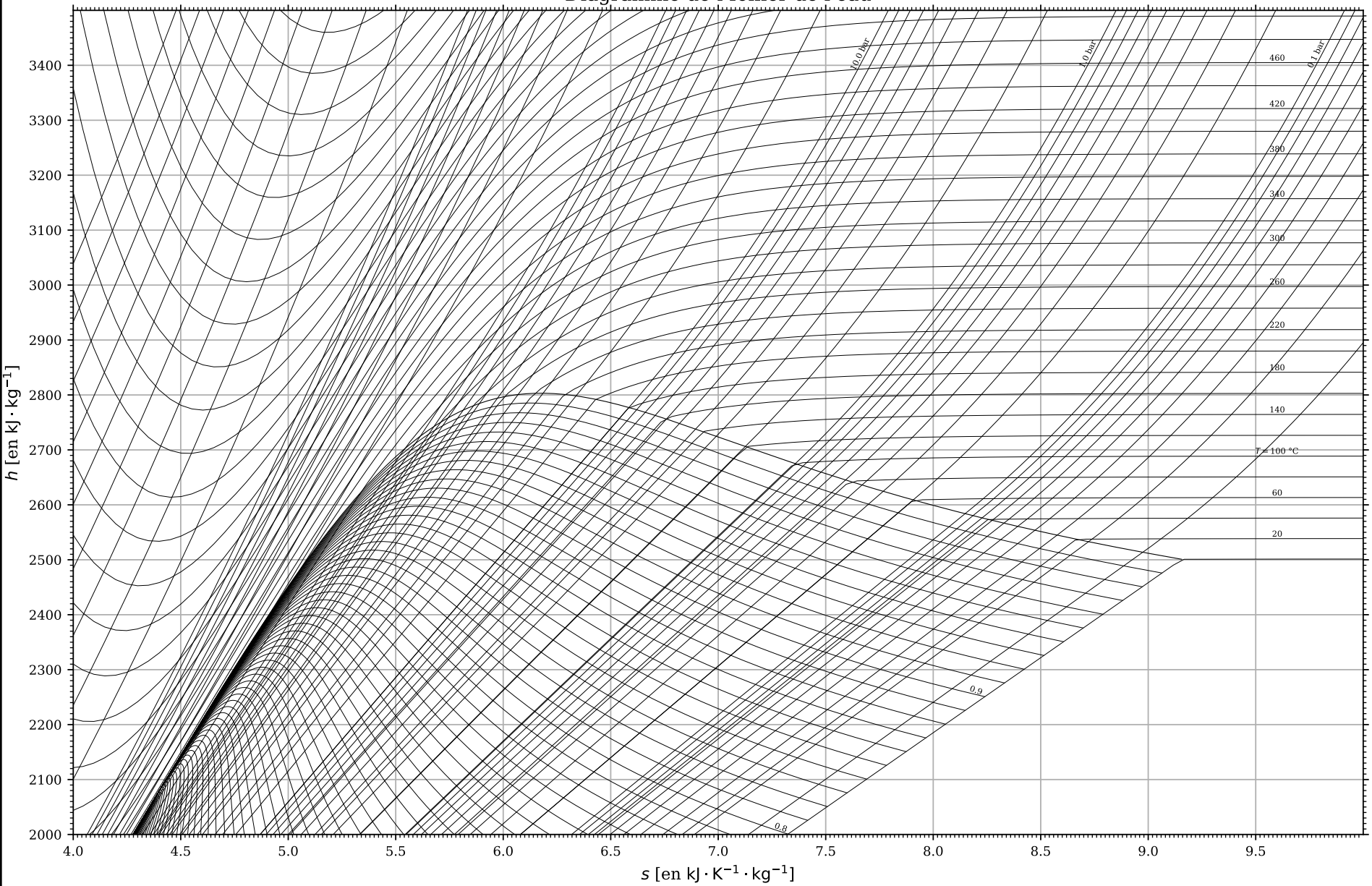
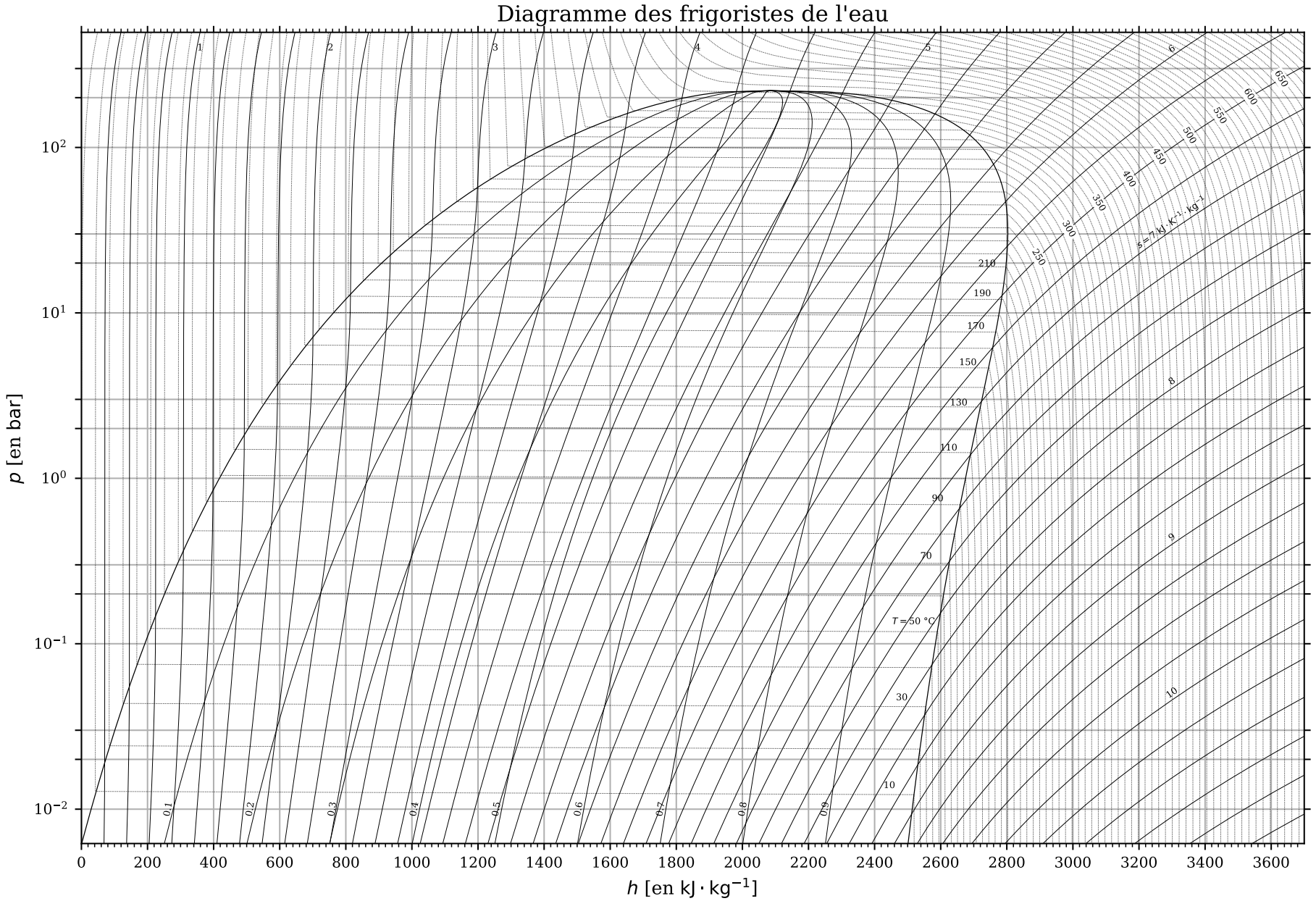

Diagramme des frigoristes du fréon-R12
p [en bar]
h [en kJ · kg⁻¹]
10¹
10⁰
10⁻¹
10⁻²
100
150
200
250
300
350
400
450
500
90
70
50
100
30
10
-10
-30
-50
-70
1.8
1.9
2.0 kJ/kg
2.1
2.2
2.3
ρ = 1 kg · m⁻³
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
0.1

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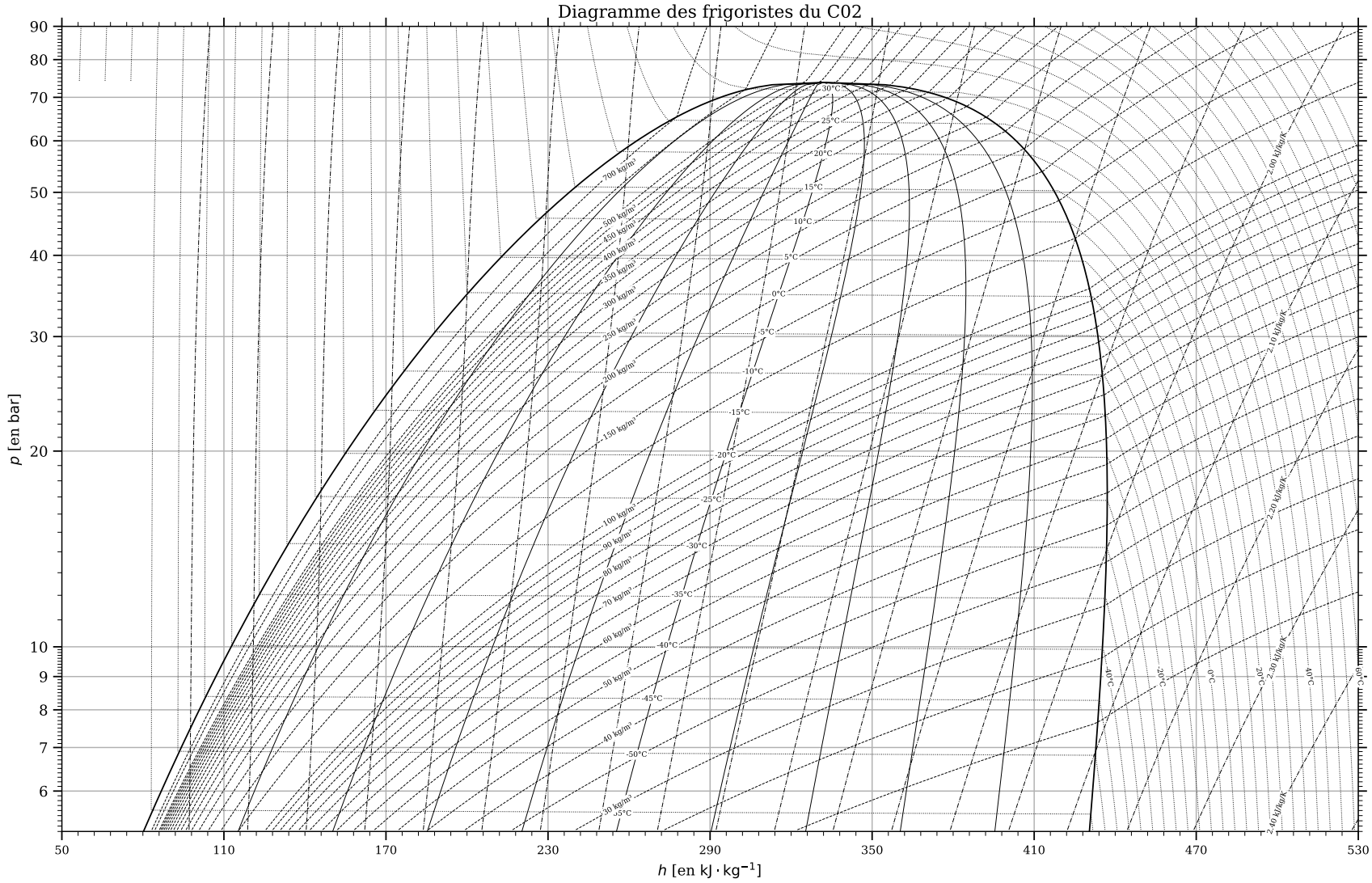
T. KOPP

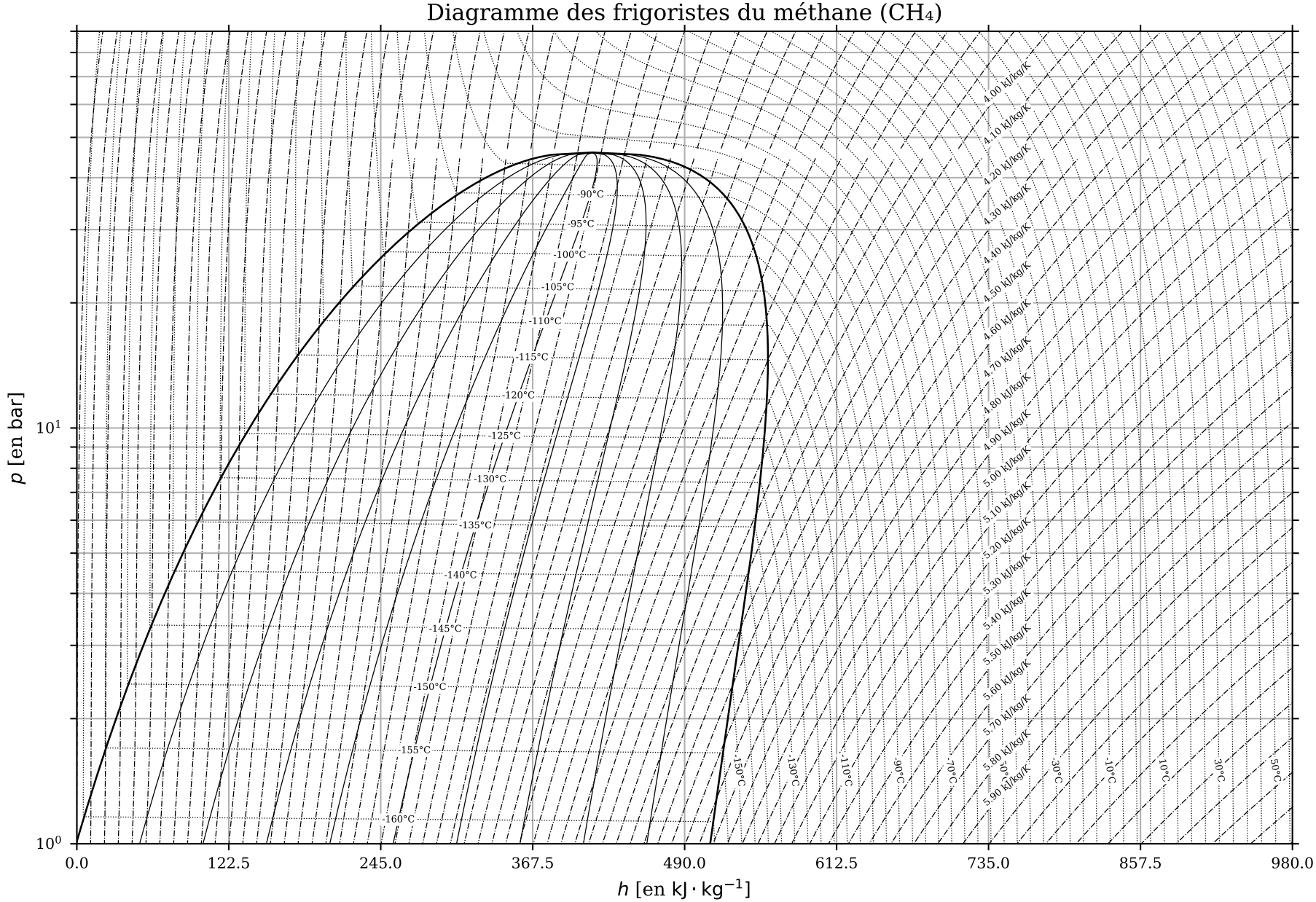
# Diagramme de Mollier de l'eau

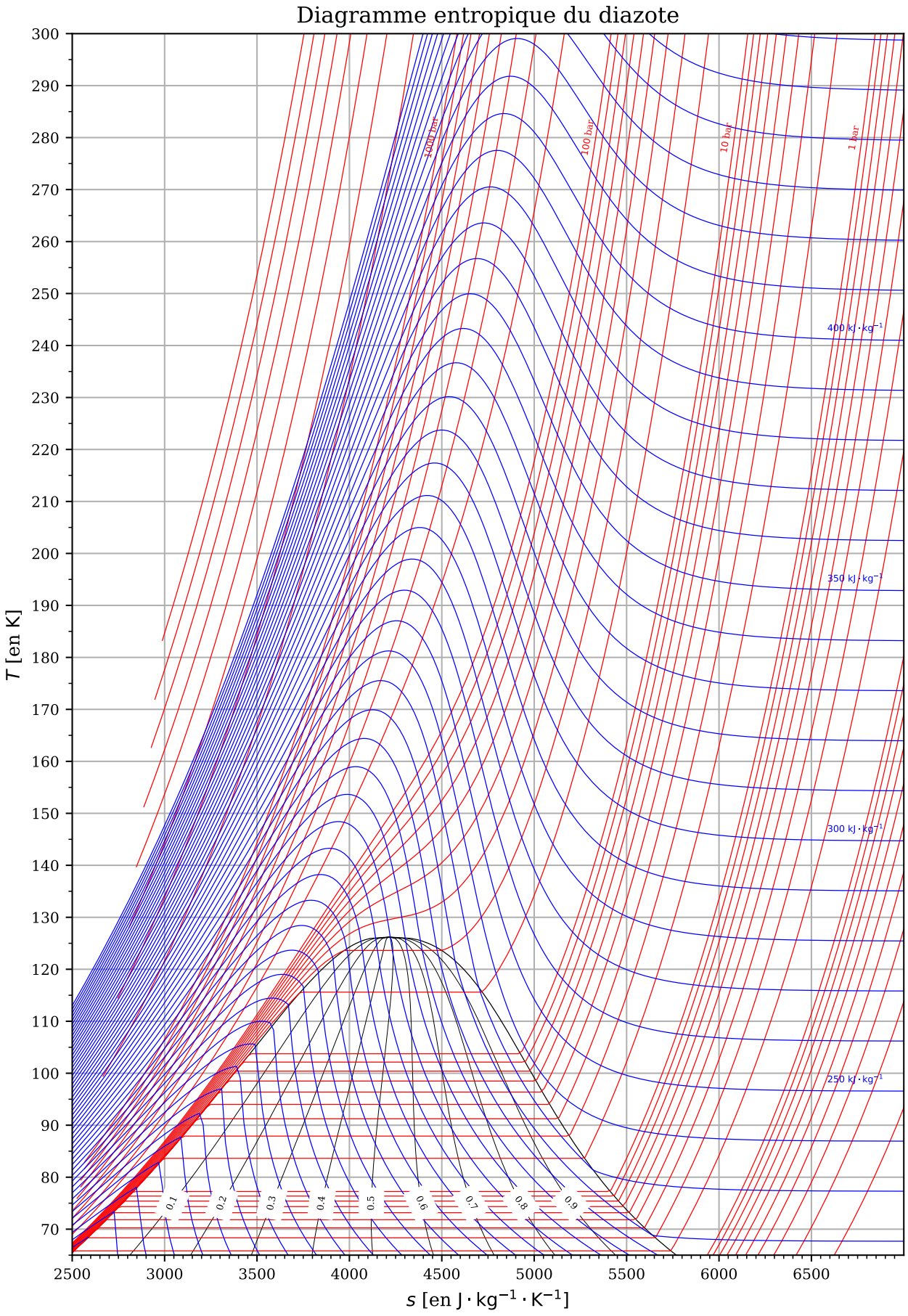



Diagramme des frigoristes de l'eau
p [en bar]
h [en kJ · kg⁻¹]
10²
10¹
10⁰
10⁻¹
10⁻²
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
2400
2600
2800
3000
3200
3400
3600
1
2
3
4
5
6
650
600
550
500
450
400
350
300
250
s=7 kJ · K⁻¹ · kg⁻¹
210
190
170
150
130
110
90
70
T=50 °C
30
10
8
9
10
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9

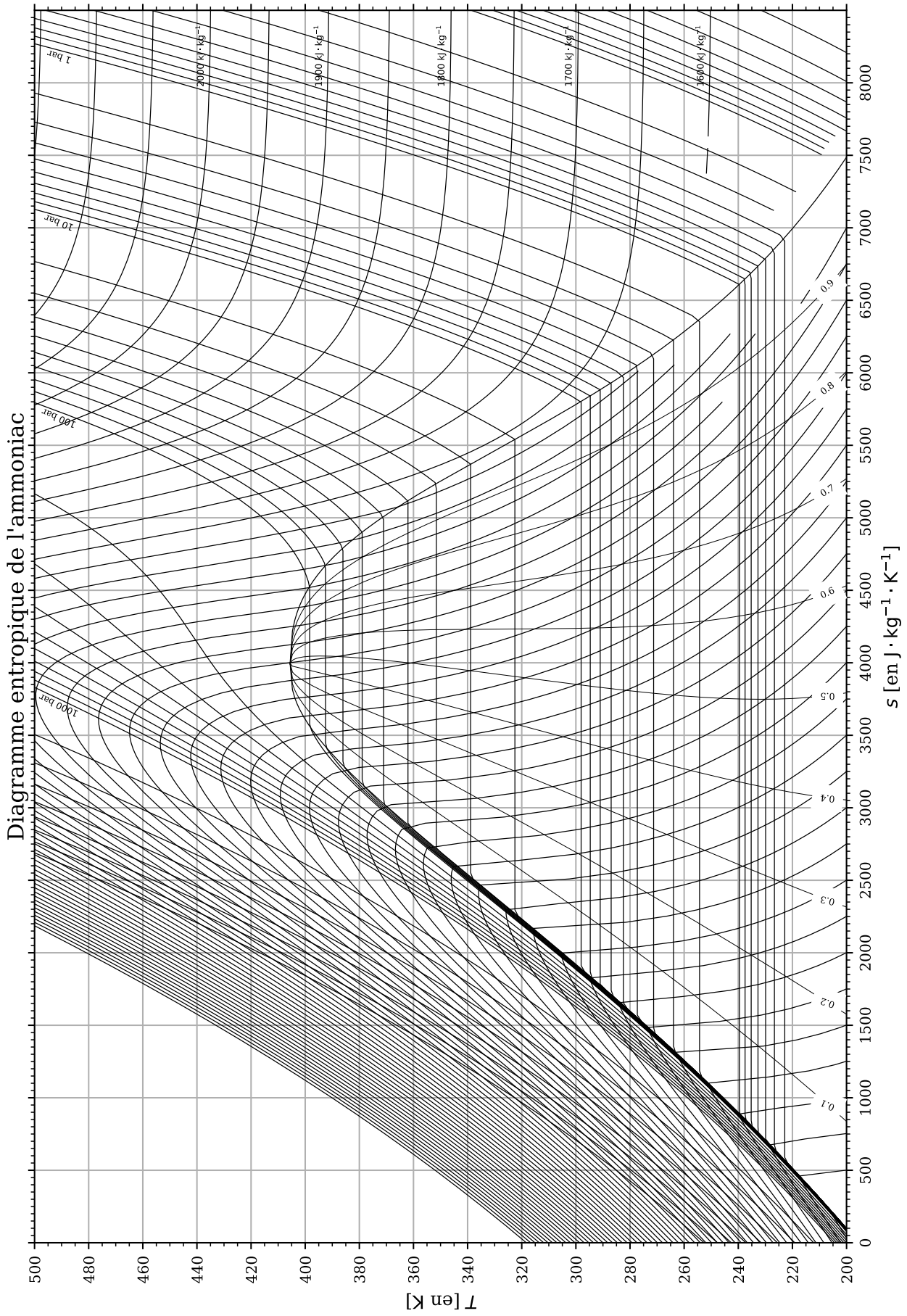
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Diagramme des frigoristes du C02
p [en bar]
h [en kJ · kg⁻¹]
90
80
70
60
50
40
30
20
10
9
8
7
6
50
110
170
230
290
350
410
470
530
30°C
25°C
20°C
15°C
10°C
5°C
0°C
-5°C
-10°C
-15°C
-20°C
-25°C
-30°C
-35°C
-40°C
-45°C
-50°C
-55°C
700 kg/m³
500 kg/m³
450 kg/m³
400 kg/m³
350 kg/m³
300 kg/m³
250 kg/m³
200 kg/m³
150 kg/m³
100 kg/m³
90 kg/m³
80 kg/m³
70 kg/m³
60 kg/m³
50 kg/m³
40 kg/m³
30 kg/m³
2.00 kJ/kg/K
2.10 kJ/kg/K
2.20 kJ/kg/K
2.30 kJ/kg/K
2.40 kJ/kg/K
3.00 mm


Diagramme des frigoristes du méthane (CH₄)
p [en bar]
h [en kJ · kg⁻¹]
10¹
10⁰
0.0
122.5
245.0
367.5
490.0
612.5
735.0
857.5
980.0
-90°C
-95°C
-100°C
-105°C
-110°C
-115°C
-120°C
-125°C
-130°C
-135°C
-140°C
-145°C
-150°C
-155°C
-160°C
4.00 kJ/kg/K
4.10 kJ/kg/K
4.20 kJ/kg/K
4.30 kJ/kg/K
4.40 kJ/kg/K
4.50 kJ/kg/K
4.60 kJ/kg/K
4.70 kJ/kg/K
4.80 kJ/kg/K
4.90 kJ/kg/K
5.00 kJ/kg/K
5.10 kJ/kg/K
5.20 kJ/kg/K
5.30 kJ/kg/K
5.40 kJ/kg/K
5.50 kJ/kg/K
5.60 kJ/kg/K
5.70 kJ/kg/K
5.80 kJ/kg/K
5.90 kJ/kg/K
-150°C
-130°C
-110°C
-90°C
-70°C
-50°C
-30°C
-10°C
10°C
30°C
50°C




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