

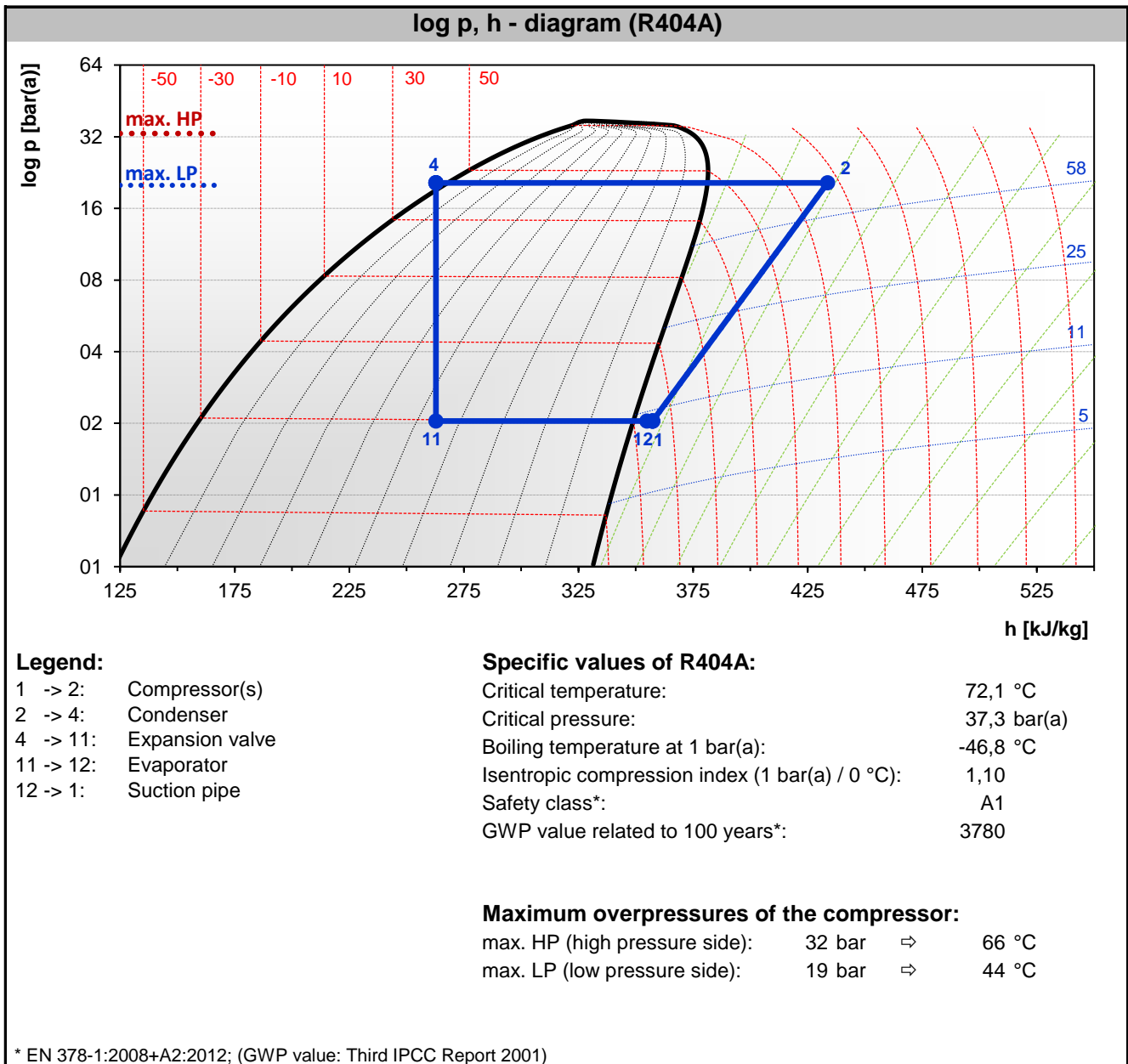
Compressor Special Calculation



Operating conditions / given values			
Type of system	Single stage		
Refrigerant	R404A*		(Dew point temp.)
Evaporating temperature		-30,0 °C	(2 bar(a))
Superheat evaporator	7,0 K		
Superheat suction line	3,0 K		
Superheat int. heat. exch.	0,0 K		
Superheat total		10,0 K	(-20 °C)
Condensing temperature		45,0 °C	(20,5 bar(a))
Subcooling condenser	3,0 K		
Subcooling int. heat. exch.	0,0 K		
Subcooling external	0,0 K		
Subcooling total		3,0 K	(41,7 °C)
Power supply frequency		50 Hz	
Performance data**			
Compressor model	4TES-9		
Cooling capacity, compressor (4 -> 1)		6,7 kW	
Cooling capacity, evaporator		6,5 kW	
Power input		5,4 kW	
Current (400 V)		10,0 A	
COP / EER		1,21	
Condenser capacity		12,0 kW	
Refrigerant mass flow		254 kg/h	
Discharge gas temp. without cooling		85 °C	
<p>* Refrigerant data calculated by Aserep library</p> <p>** Listed performance data are based on calculations and measured data. Under worst conditions given values might differ from common tolerances</p>			

In case of a compressor failure, the decision on a potential warranty claim remains reserved to a diagnosis and examination of the compressor at the BITZER factory. Design, operation, and monitoring of the system is in the responsibility of the designer or executing company.

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Application range

Not defined
so far