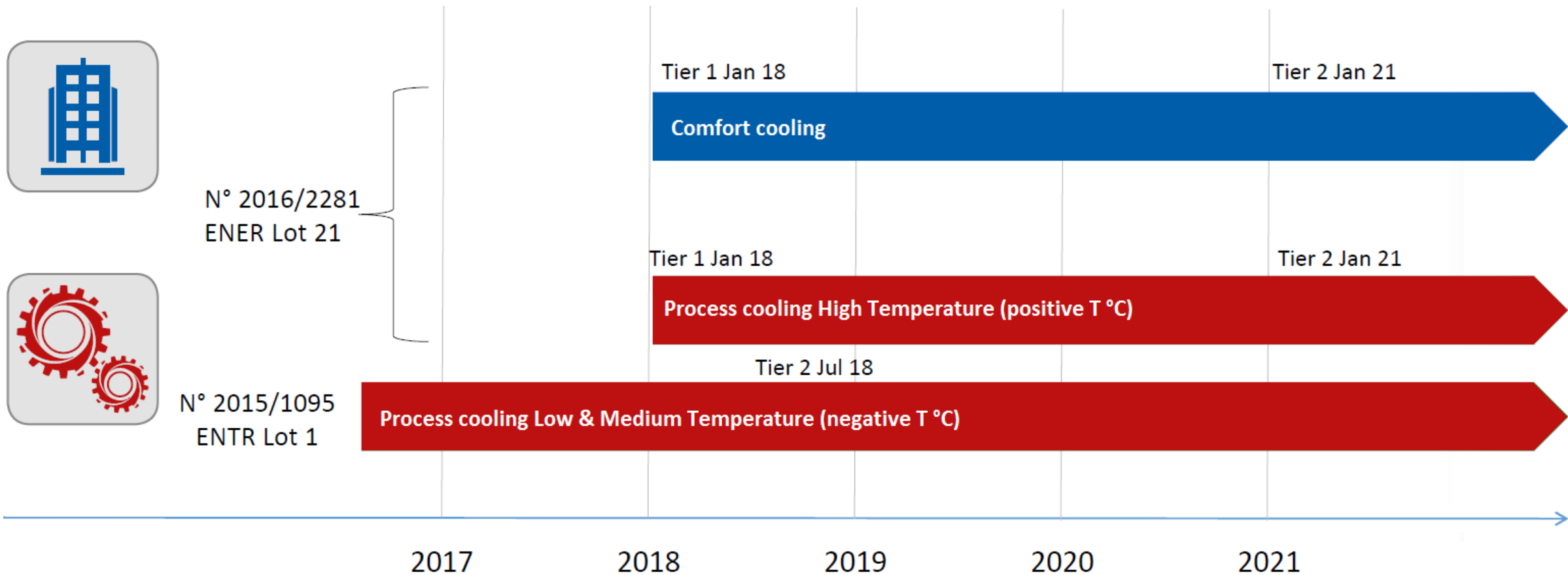






EUROKLIMAT[®]
Cooling System Solutions

European Directive 2009/125/EU - Ecodesign Regulations for Liquid Chillers

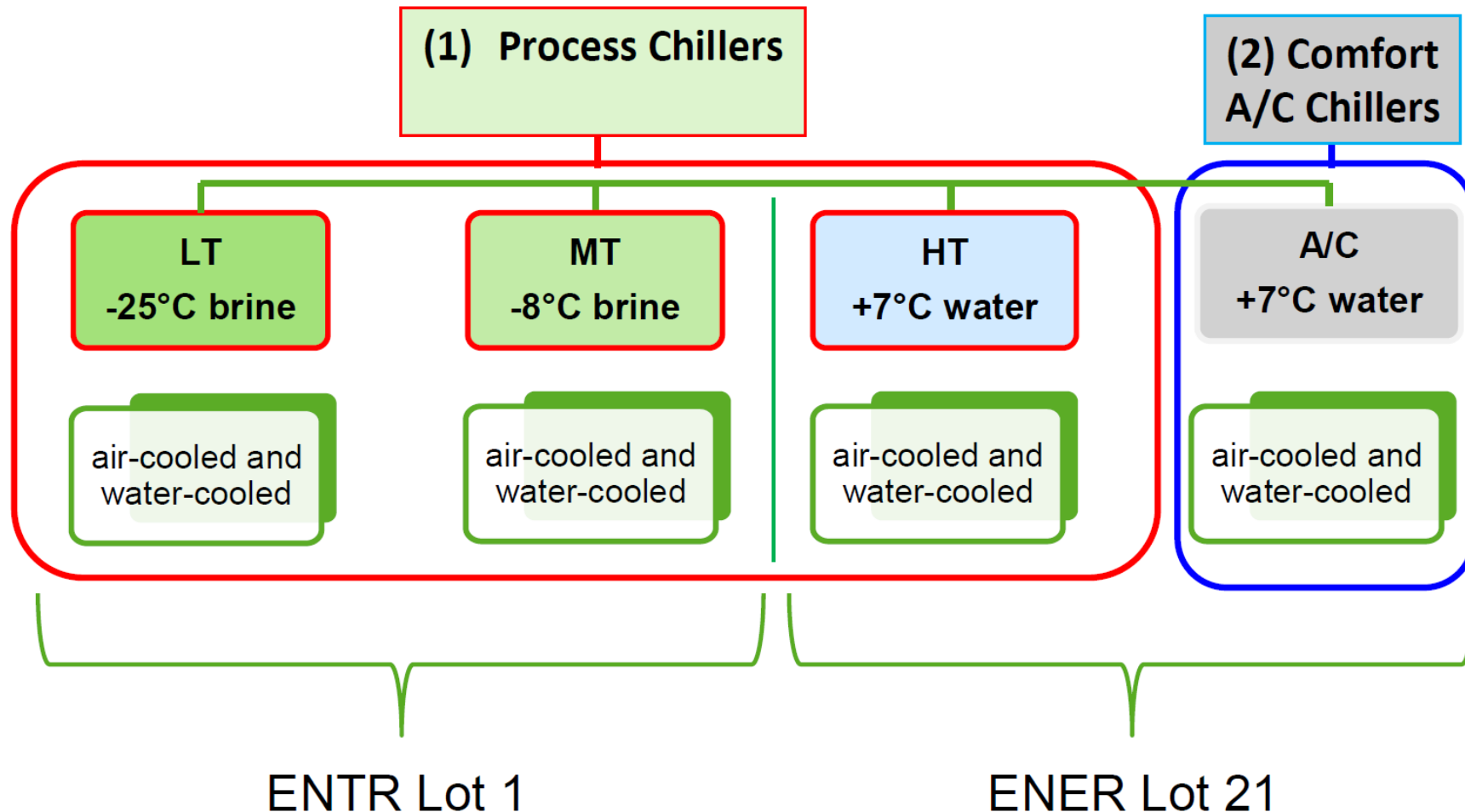
Depending on cooling application



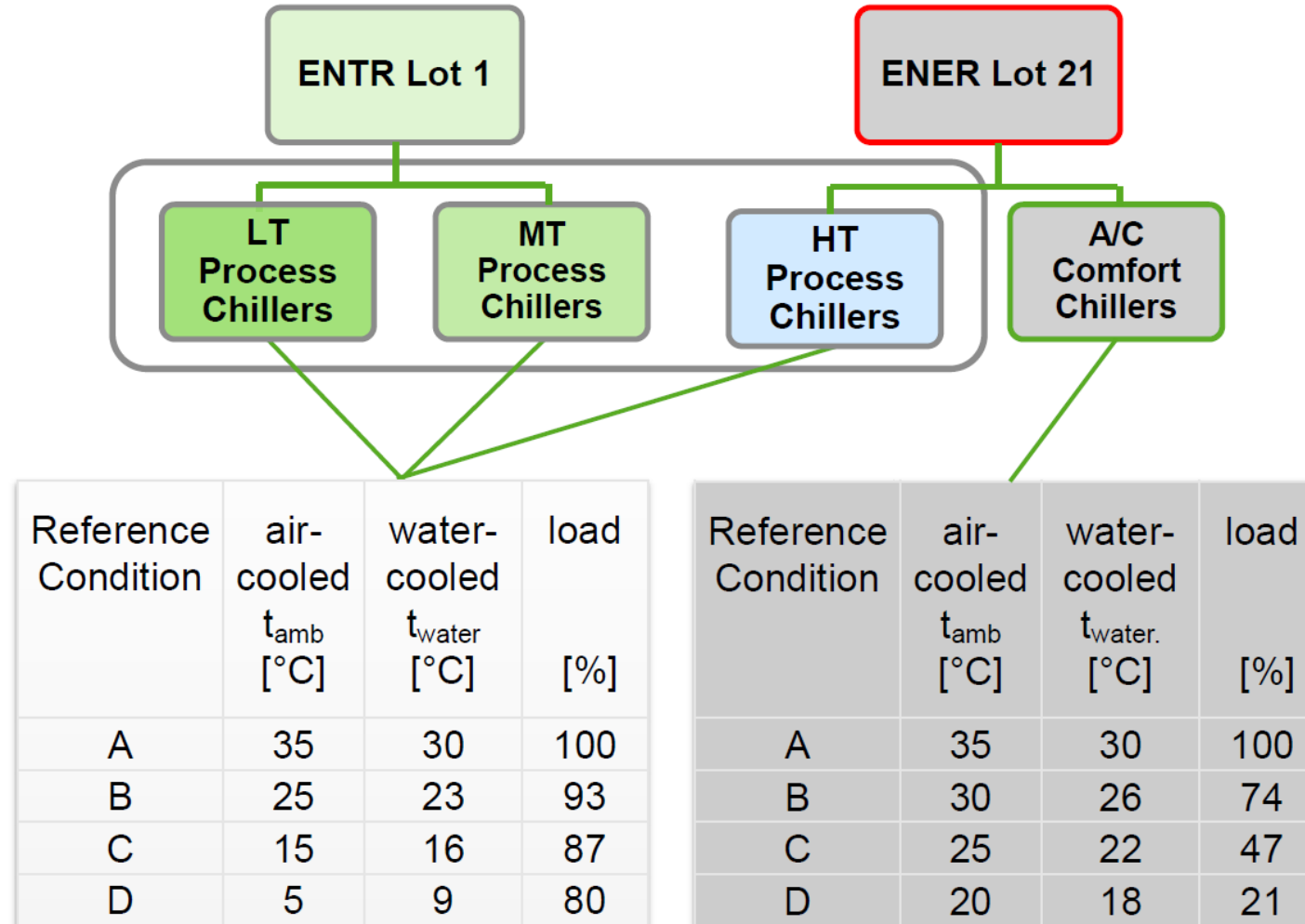
Efficiency requirements by cooling application

	 COMFORT COOLING	 PROCESS COOLING
Seasonal Efficiency requirement	SEER = Seasonal Energy Efficiency Ratio or $\eta_{s\ cool}$ (primary energy)	SEPR = Seasonal Energy Performance Ratio
Regulation scope	Up to 2000 kW	
	Outlet $\geq 2^\circ$	High Temp, ≥ 2 Outlet $\leq 12^\circ$ Med Temp, Outlet -8° Low Temp, Outlet -25°
Measurement standards	EN 14511 EN 14825	

Application ranges for chillers



Load and Temperature profiles for chillers



Reference Standards

- [European Directive 2009/125/EU](#) - Ecodesign requirements for energy-related products
 [EUR Lex](#)
- [Commission Regulation \(EU\) 2016/2281](#) - Ecodesign requirements for design of units
 [EUR Lex](#)
- [European Standard EN 14825:2016](#) - Testing and rating at part load conditions and calculation of seasonal performance
 [UNI](#)
- [Commission Regulation \(EU\) 2015/1095](#) - Ecodesign requirements for design of process chillers
 [EUR Lex](#)
- [Commission communication 2017/C 229/01](#) - Implementation of Commission Regulation (EU) 2016/2281
 [EUR Lex](#)



Thank you.