

# Adsorption Chiller

## InvenSor LTC 30 e plus

### Wide range of capacity and particularly high efficiency.

#### Cooling capacity between 10 and 35 kW – integrated hydraulics

The automatic power adjustment enables highly efficient operation with a cooling capacity range from 10 to 35 kW. Powerful high-efficiency pumps, mixers and valves are integrated ready for operation.

#### Easy set-up and automatic operation: InvenSor smart control

The integrated system controller offers a variety of options to adapt to each application and special customer requirements. Comprehensive measurement technology simplifies installation and commissioning and enables the system to be managed as automatically as possible. The machine is factory-prepared for remote control.

#### Maintenance-free cooling chamber: InvenSor ActiVac®

The automatic pressure system developed by InvenSor ensures constant optimum operating pressure. The service is limited to the usual tasks in water and air-carrying circuits.

#### LTC 30 e plus: with integrated hydraulics

The LTC 30 e plus combines all the basic components for thermal cooling in one device. It contains a properly controlled hydraulic unit: This means that all water circuits for the driving energy, cooling distribution and recooling can be connected directly.

#### LTC 30 e plus-FC: with integrated hydraulics and free-cooling function

The FC model also enables significant energy savings as it can cool directly via the outside unit if outside temperatures are cold enough, without using heat to drive the chiller.



#### Dimensions of the machine

Length .....	1.560 mm
Height .....	1.845 mm
Width .....	800 mm
Weight LTC 30 e plus .....	1.200 kg
Weight LTC 30 e plus-FC .....	1.205 kg

#### Position of the connectors

from the ground.....	1.905 mm
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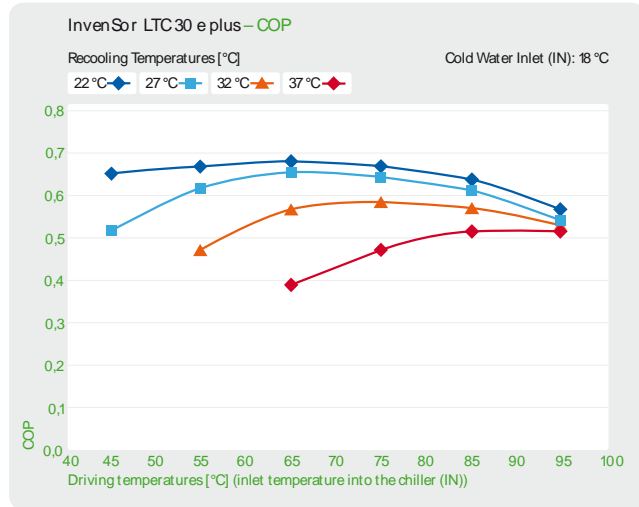
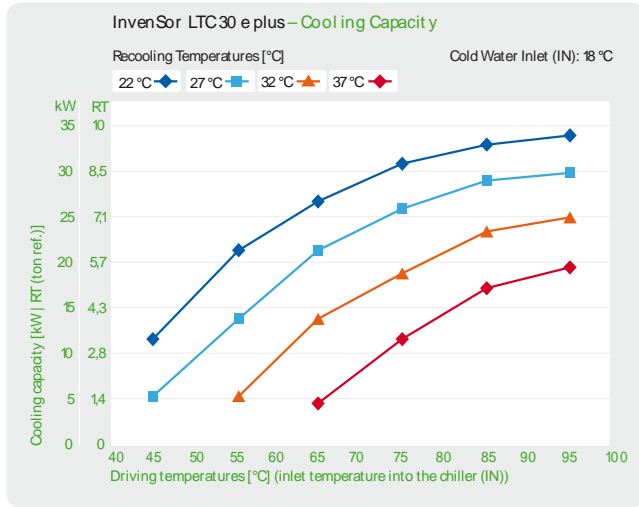
#### Nominal widths

Drive (2x).....	G 1 1/2"
Cooling (2x) .....	G 1 1/2"
Recooling (2x) .....	G 1 1/2"

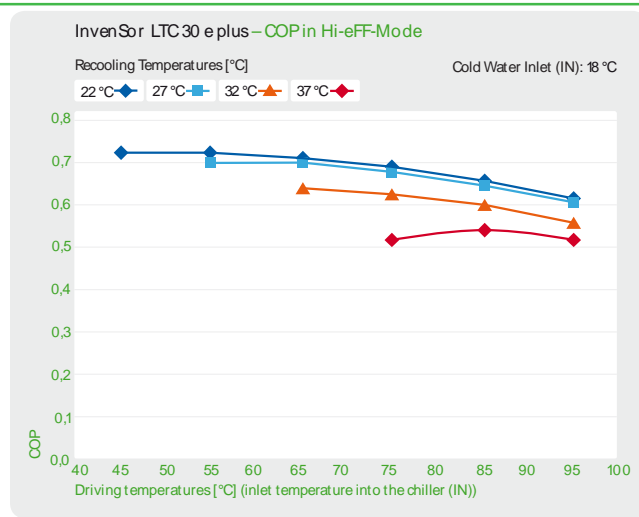
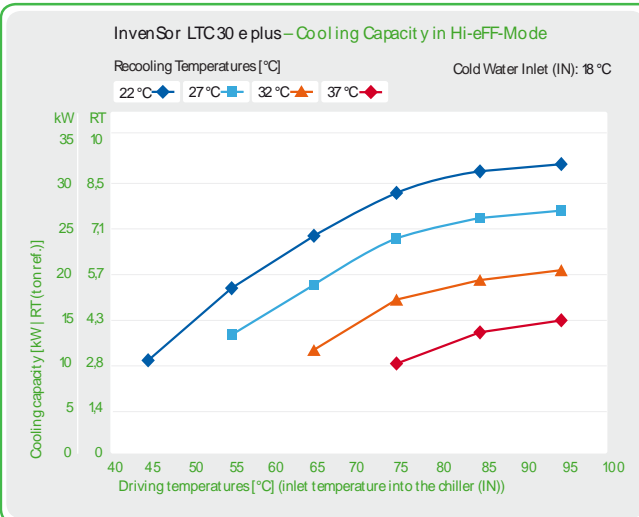
General technical specifications							
Output range – cooling	kW / RT	10-30 / 2,8-8,5					
COP maximum		0,72					
Max. overpressure	bar	4					
Electrical connection	V~   Hz   A	230   50/60   max. 9,5					
Approx. electrical power consumption	W	25					
Approx. electrical power consumption (incl. pumps)	W	895   EER = 33					
Nominal data		Cooling circuit		Recooling circuit		Drive circuit	
Temperatures – possible application	°C	10–25		20–37		60–99	
Volume flows	l/h	6.600		11.400		6.300	
Available ext. pressure head	mbar	400		400		300	
Specifications at higher driving temperatures "85°CPoint"							
COP	(Hi-eFF)		0,6	(0,64)			
Performance (kW)	(Hi-eFF)	kW	29,5	(26,0)	78,5	(66,5)	49,0 (40,5)
Performance (RT)	(Hi-eFF)	RT	8,39	(7,4)	22,3	(18,9)	13,93 (11,5)
Temperatures – cooling system inlet (IN)	°C	18,0		27,0		85,0	
Temperatures – cooling system outlet (OUT)	°C	14,0		33,0		78,0	
Specifications at lower driving temperatures "72°CPoint"							
COP	(Hi-eFF)		0,65	(0,68)			
Performance (kW)	(Hi-eFF)	kW	25,0	(22,0)	63,5	(54,5)	38,5 (32,5)
Performance (RT)	(Hi-eFF)	RT	7,1	(6,25)	18,05	(15,49)	10,95 (9,24)
Temperatures – cooling system inlet (IN)	°C	18,0		27,0		72,0	
Temperatures – cooling system outlet (OUT)	°C	14,5		32,0		66,5	

## Technical specifications at different conditions

Capacity and COP at different temperatures of recooling and driving energy (nominal values)



Capacity and COP at different temperatures of of recooling and driving energy (with high-efficiency-mode activated)



Capacity and COP at different temperatures of driving energy and chilled water (nominal values)

