Adsorption Chiller
InvenSor LTC 10 e plus

invensor
making life cooler

The InvenSor chiller with particularly high COP values

The InvenSor LTC 10 e plus has been developed to operate particularly energy efficiently: in the optional high efficiency mode, it achieves a COP of 0.7 – uniquely high in this class and ideal in combination with mini combined heat and power units with up to 15 kW thermal power.

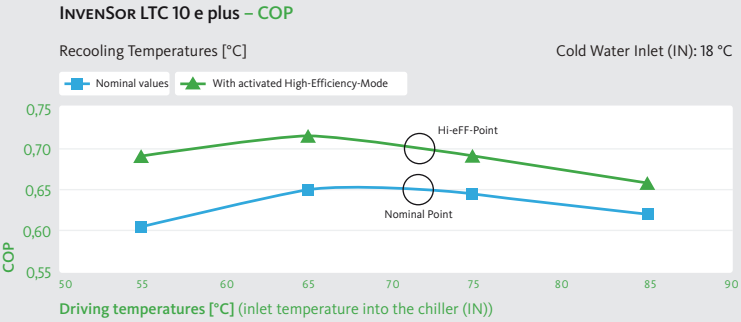
10 kW cooling capacity – integrated hydraulics
The nominal capacity is 10 kW, and in high efficiency mode 9 kW.Powerful high-efficiency pumps, mixers and valves are integrated ready for operation.

Easy-to-operate settings – heat pump option
Any target temperature can be set and programmed on the device itself. Use as a heat pump can also be activated on the device.

Maintenance-free cooling chamber thanks to InvenSor ActiVac®
ActiVac is an automatic pressure system ensuring optimum operating pressure in the chiller at all times; subsequent evacuation is unnecessary.

LTC 10 e plus: Complete hydraulic unit integrated
The LTC 10 e plus 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 10 e plus-FC: Hydraulic unit & free cooling function integrated
The free cooling function allows for even more energy savings: If the outside air temperature is cold enough, it can be used directly for climatization and no driving heat is necessary to operate the chiller.



Dimensions of the machine
Length ..... 1.100 mm
Height ..... 1.370 mm
Width ..... 750 mm
Weight LTC 10 e plus. ..... 440 kg
Weight LTC 10 e plus-FC ..... 445 kg

Position of the connectors
from the ground ..... 1.400 mm

Nominal widths
Drive (2x). ..... G 1"
Cooling (2x) ..... G 1 1/4"
Recooling (2x) ..... G 1 1/2"

General technical specifications								
Output range – cooling		kW / RT	4–14 / 1.1-4					
COP maximum			0,75					
Max. overpressure		bar	4					
Electrical connection		V~ | Hz | A	230 | 50/60 | max. 8,5					
Approx. electrical power consumption (incl. pumps)		W	395					
Nominal data | Hi-eFF-Mode			**Cooling circuit**		**Recooling circuit**		**Drive circuit**	
COP	**(Hi-eFF)**		0,65	**(0,7)**				
Performance (kW)	**(Hi-eFF)**	kW	10	**(9)**	25,4	**(21,9)**	15,4	**(12,9)**
Performance (RT)	**(Hi-eFF)**	RT	2,84	**(2,55)**	7,22	**(6,22)**	4,37	**(3,67)**
Temperatures – cooling system inlet (IN)		°C	18		27		72	
Temperatures – cooling system outlet (OUT)		°C	15		31		67	
Temperatures – possible application		°C	10–25		20–37		45–100	
Volume flows		l/h	2.900		5.100		2.500	
Available ext. pressure head		mbar	400		400		300	

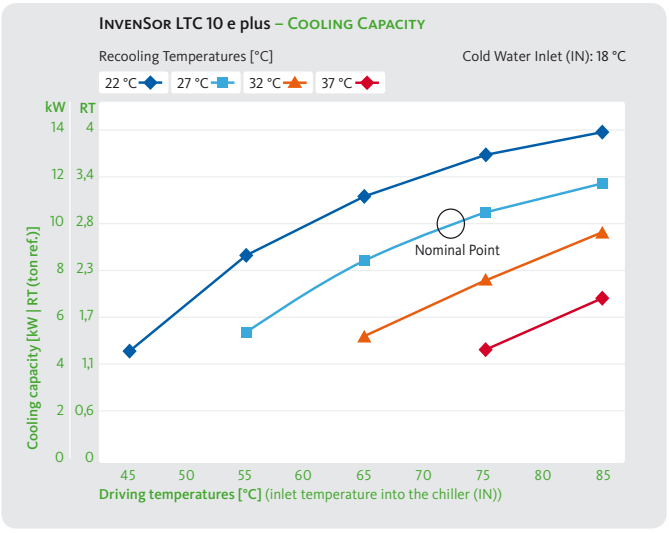
All specifications apply for operation with water in hydraulic circuits.

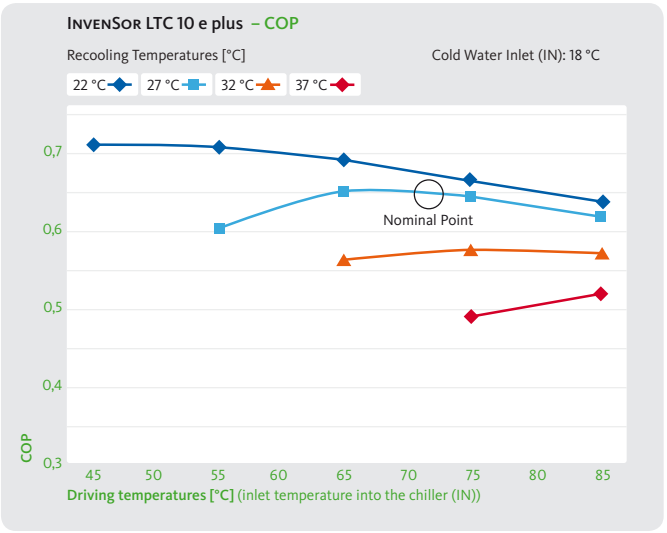
Adsorption Chiller
InvenSor LTC 10 e plus

invensor
making life cooler

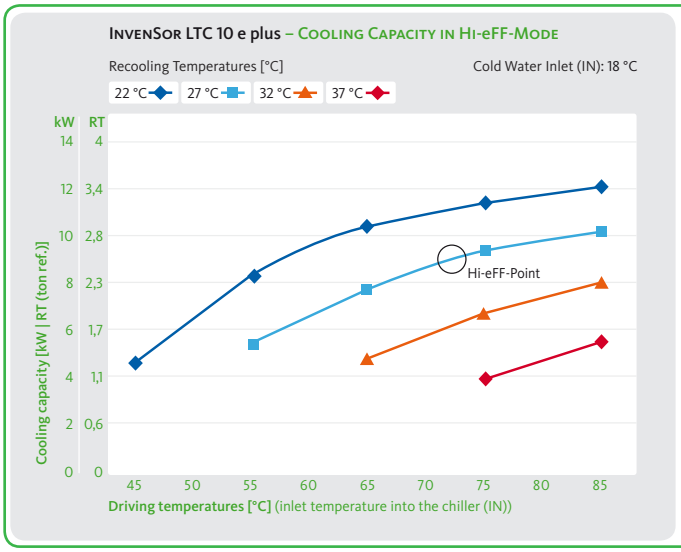
Technical specifications at different conditions

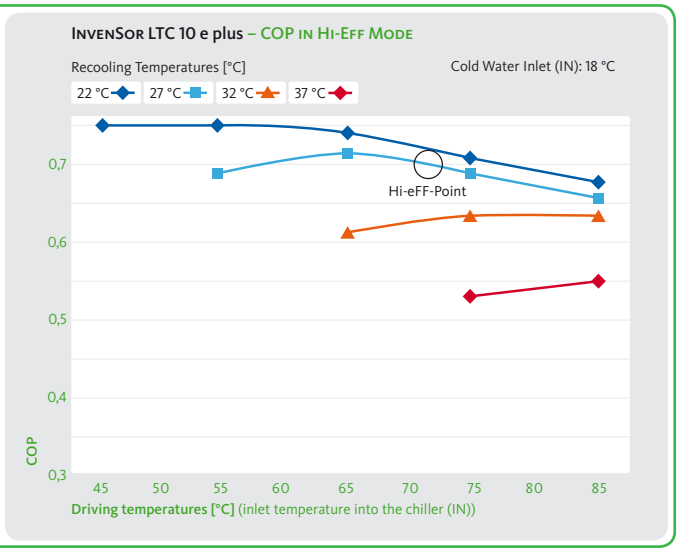
Capacity and COP at different temperatures of recooling and driving energy (nominal values)



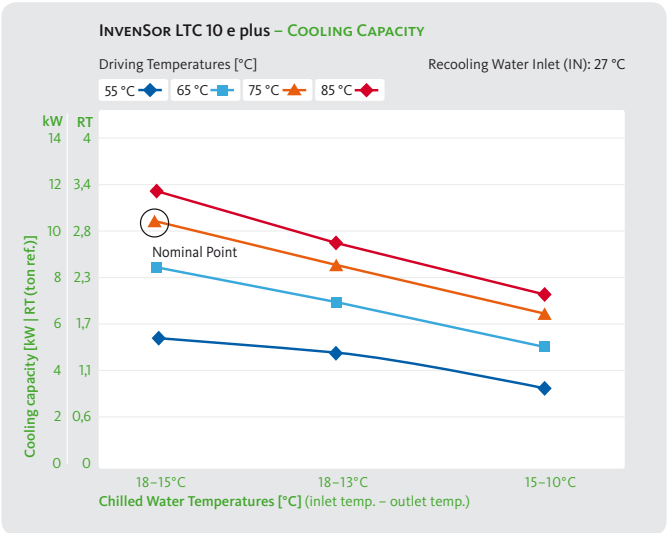


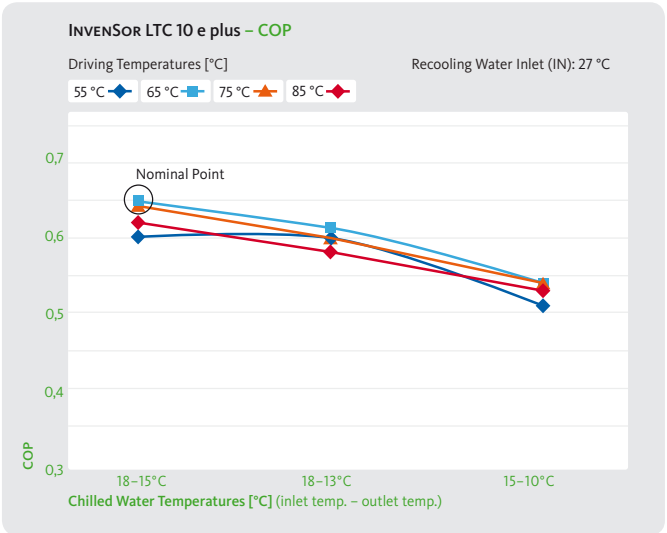
Capacity and COP at different temperatures of of recooling and driving energy (with high-efficiency-mode activated)





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





Supported by:
Federal Ministry for Economic Affairs and Energy
on the basis of a decision by the German Bundestag