

Adsorption Chiller

InvenSor LTC 10 e plus

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 thanks to InvenSor ActiVac®

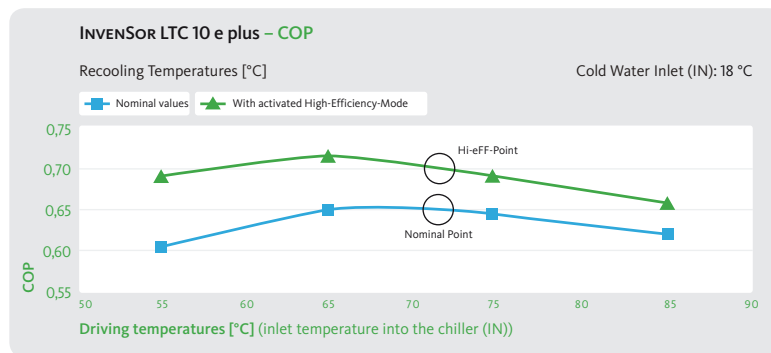
ActiVac is an automatic pressure system ensuring optimum operating pressure in the chiller at all times; subsequent evacuation is unnecessary.

LTC 10 e plus: InvenSor chilling station 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: chilling station & 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 climati-zation 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

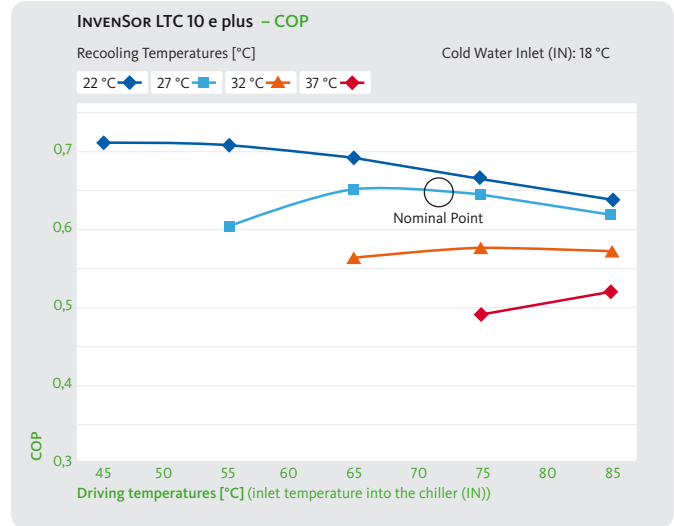
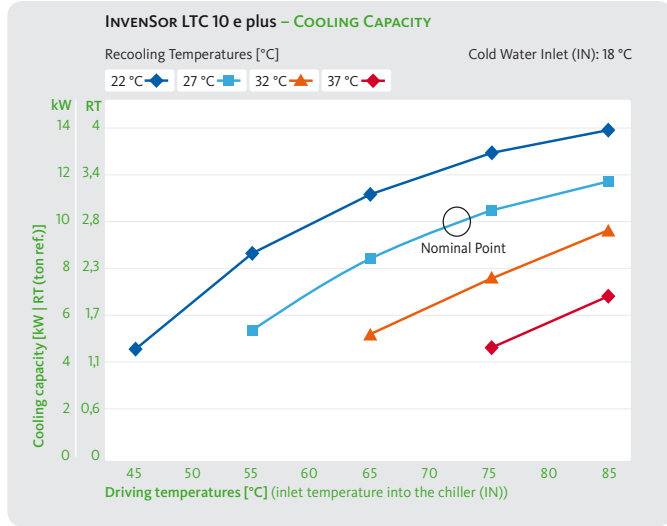
Nominal widths

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

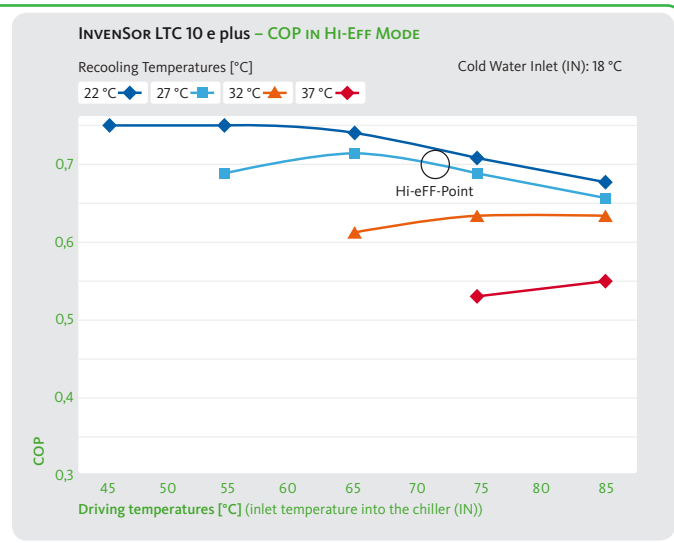
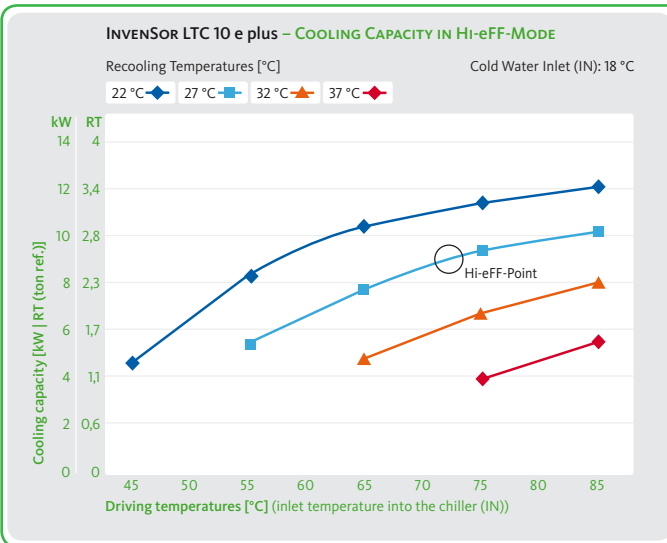
General technical specifications								
Output range – cooling	kW / RT	4–14 / 1.1–4						
COP maximum		0,75						
Max. overpressure	bar	4						
Electrical connection	V~ Hz A	230 50/60 max. 8,5						
Approx. electrical power consumption (incl. pumps)	W	395						
Nominal data Hi-eFF-Mode		Cooling circuit		Recooling circuit		Drive circuit		
COP	(Hi-eFF)	0,65	(0,7)					
Performance values	(Hi-eFF)	kW	10	(9)	25,4	(21,9)	15,4	(12,9)
		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		

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)

