

Unit

Compressor size	HSO 2024
Volume Ratio	4.9
Refrigerant	R717 (NH3)
Compressor cooling: external oil cooling	
Not economised	
Standard drive	

Conditions

Load	%	100
Speed	rpm	2980
Suction	°C	-10
Delivery	°C	40
Useful suction superheat	K	5
Total suction superheat	K	5
Liquid subcooling in condenser	K	5

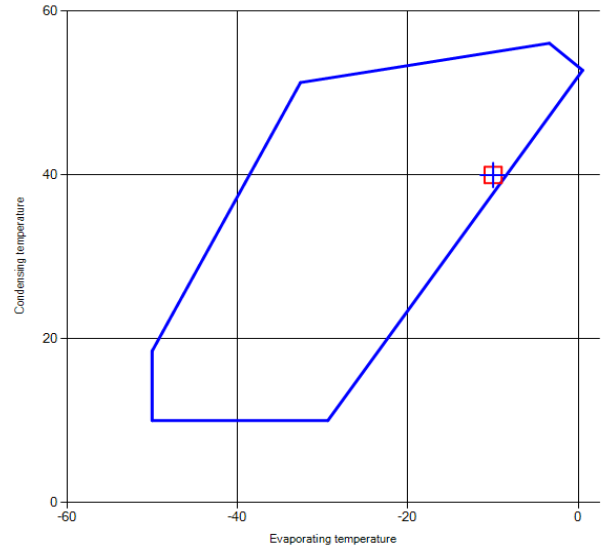
Performance

Capacity	kW	540.1
Shaft power	kW	175.2
COP		3.08
Suction mass flow rate	kg/s	0.49
Delivery Temperature	°C	81.9
Liquid temperature at expansion valve	°C	35

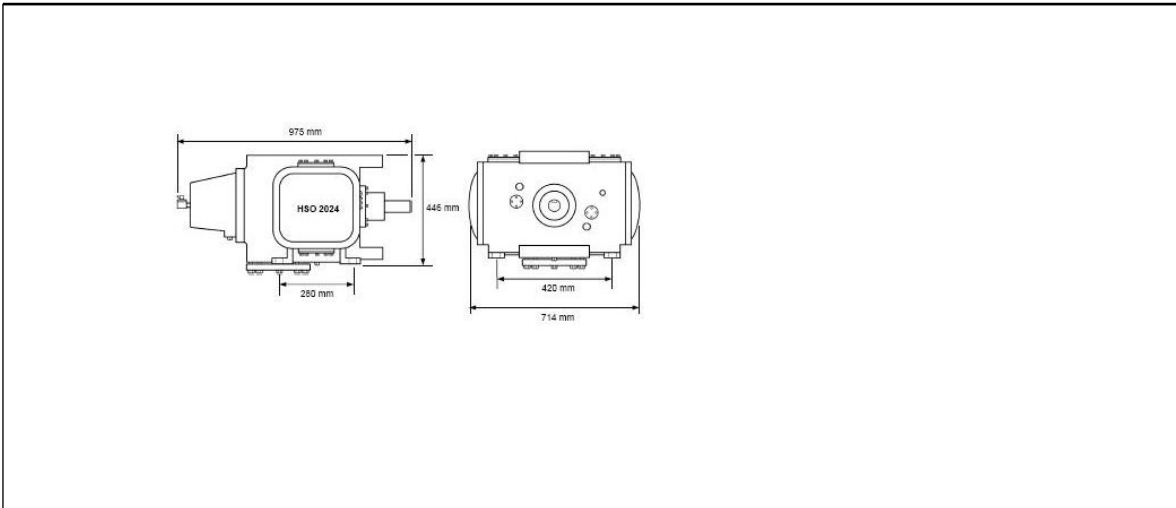
External oil cooling

Cooling Load	kW	99.36
Inlet oil temperature	°C	40
Oil injection flow rate	m3/h	4.97

OPERATION LIMITS



Note; Liquid injection load may be higher at minimum load, this should be checked to evaluate liquid injection valve selection



Performance tolerances are generally in accordance with EN12900.
Continuous research and development may necessitate changes to this data at any time