

Skyven Arcturus Steam-Generating Heat Pump

TECHNICAL SPECIFICATIONS

Generate high-quality, emissions-free industrial steam that's cost-competitive today.

Our latest technology captures low-grade heat rejected from industrial processes and upgrades that heat to generate steam at the same temperature, pressure, and quality of existing boilers.

By decreasing the workload of existing boilers, the Skyven Arcturus line of industrial steam-generating heat pumps reduce your natural gas usage, significantly lowering on-site CO2 emissions from industrial steam.

No other technology can do the same.

	SKYVEN	BEST-IN-CLASS
Max Temp	420°F (215°C)	320°F (160°C)
Max Steam Pressure	300 psig (20.7 barg)	50 psig (3.4 barg)
Refrigerant	Water	HFC/HFO



Improved Efficiency

3x more efficient than industry standard boilers



Zero Downtime

Operates outside of the existing production processes and connects directly into current infrastructure



Environmental Impact

Reduced GHG emissions, zero emissions refrigerant, and reduced water usage

SYSTEM TECHNICAL SPECIFICATIONS

Steam Production

10,000lbs/hr - 250,000lbs/hr per system
(multiple systems can be combined to increase steam production)

Steam Output Pressure

Max 300 psig (20 barg)
(contact us if higher pressure required)

Steam Output Temperature

Max 420°F (215°C)

Minimum Heat Source Temperature

Min 85°F (29°C)
(higher heat source temps improve efficiency)

Temperature Lift

Max lift 330°F (166°C)

Coefficient of Performance (COP)

2.7 (typical)
(with typical temperature lift of 235°F (113°C))

Refrigerant

Water
(zero emissions)

Pad Size

150 x 50 ft (45 x 15 m)
(size may vary)

Distance to Steam Header

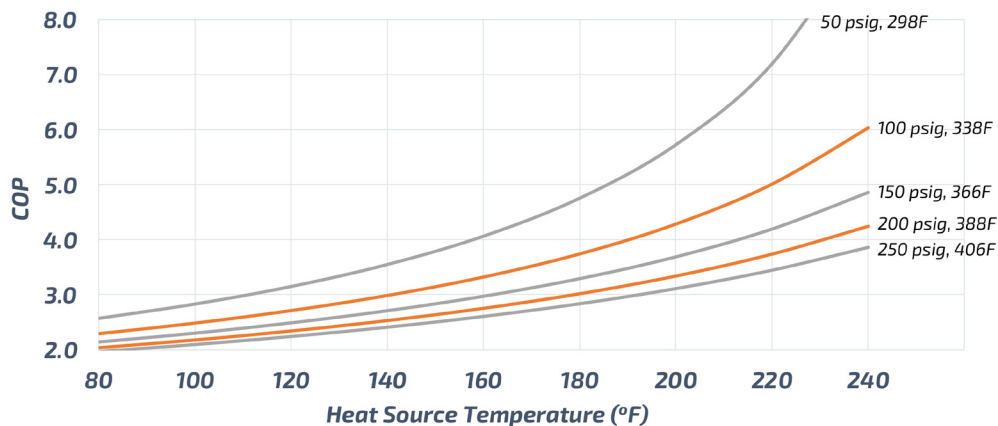
2000 ft (610 m) max

Equipment Lifetime

30 Years

COP varies as a function of heat source temperature, steam output pressure, and temperature lift. Arcturus achieves COPs ranging from 2.1 to more than 8.0 depending on temperature lift. For a typical temperature lift of 235°F, Arcturus produces a COP of 2.7.

ARCTURUS COEFFICIENT OF PERFORMANCE (COP)



Arcturus COPs at various heat source temperatures with common steam output pressures and temperatures

Contact us at (214) 494-1152
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Together, we can profitably decarbonize your facilities.

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