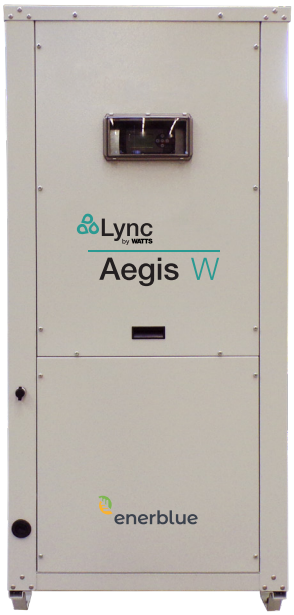
Technical Data Sheet

Aegis W
Water Source

Lync's Aegis W is a powerful commercial CO_2 water source heat pump water heater powered by R744, better known as CO_2. Aegis W produces hot water storage temperatures up to 170°F at source temperatures as low as 18°F with no need for supplemental heat. By simply absorbing and moving heat from the source loop instead of needing to generate heat, this heat pump is extremely efficient thus saving energy and lowering operating costs.

Because it uses a natural refrigerant CO_2, Aegis W is a safe, environmentally friendly heat pump water heater: R744 is non-toxic, non-flammable, has an ODP (Ozone Depletion Potential) of zero and a low GWP (Global Warming Potential) of one. R744 outperforms other refrigerants, like R134a and R410a, by having a much lower GWP (1.0 vs 1430 and 2088 respectively) and a wider range of ambient operating temperatures, making Lync's Aegis W a better, longer-lasting option as more states introduce stricter environmental guidelines.



Features

High Performance Operation

- Produces domestic hot water up to 170°F at source temperatures as low as 18°F **with no need for supplemental heat**
- Wide ambient operating conditions provide high COP (Coefficient of Performance) year-round
- Compact footprint is perfect for installations with limited mechanical space

Environmentally Friendly Technology

- Eco-friendly refrigerant R744 has an ODP of 0 and low GWP of 1
- Non-toxic and non-flammable
- Natural R744 provides long-lasting refrigerant option to increasingly stringent environmental guidelines

Energy Saving

- Energy efficient with lower operating costs – provides heat by absorbing and moving heat from the surrounding area instead of generating supplemental heat
- Lower peak energy demands and peak use and can lead to additional electricity savings
- Source water from a cooling plant can further increase the performance of both domestic and cooling systems

Additional Features

- Capable of providing simultaneous production of cold water along with hot water
- The heat pump can be remotely controlled through the building automation system (BAS) allowing users to check the status of the unit real time, record operational data, check for faults with alarms and warnings, change set point and operating modes and much more
- Ideal for new and retrofit, multifamily, gyms, industrial, hospitality, education and healthcare

Technical Data

			250	350	500
Performance	Heating Capacity* at 54°F Source	MBH	199	319	477
	Cooling Capacity	MBH	145	229	340
	Input Power	kW	15.7	26.3	40.1
	Nominal Recovery Capacity	GPH	221	355	531
	COP		3.7	3.6	3.5
	Primary Outlet Water Temperature Range		140-180°F (60-82°C)		
	Storage Water Temperature		120-170°F (49-77°C)**		
	Maximum Return Water Temperature		86°F (30°C)		
	Source Water Temperature Range		18-86°F (-8-30°C)		
	Source Side Nominal Flow Rate	GPH	1938	3064	4556
	Source Side Nominal Pressure Drop	PSI	3.5	7.7	7.1
	Compressor Size	HP	14	25	35
	Refrigerant Charge	lbs	15.4	17.6	17.6
	Sound Pressure	dB(A)	57	62	65
Electric	FLA	A	34	45	70
	MCA	A	46	59	97
	MOP	A	80	100	150
	Power Supply		480 V / 3 ph / 60 Hz		
Dimensions	Width	in	30	30	30
	Depth	in	46	46	46
	Height	in	69	69	69
	Shipping Weight	lbs	1188	1282	1336
	Operating Weight	lbs	1208	1307	1371

*Nominal performance based on: Source temperature 54°F (12°C) - 45°F (7°C). Primary loop 68°F (20°C)-176°F (80°C).
**Depending on heat exchanger module selected.

Lync® by WATTS

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