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\First Commercial CO_2 Heat Pump Waters Heaters in North America Introduced by Lync

— Aegis Heat Pumps Provide High Efficiency, Environmentally Friendly Domestic Hot Water Systems for New and Retrofit Commercial Designs —

Lync, a Watts brand, introduces Aegis, the first commercial CO_2 heat pump water heaters in North America. Available in air and water source models, Aegis produces hot water up to 185° at air temperatures as low as -4°F with Aegis A (air source) and to +14°F with Aegis W (water source) with no need for supplemental heat, making the heat pump water heaters highly efficient for optimal energy savings and lower operating costs in a variety of new and retrofit commercial facilities.

“We are thrilled to introduce Lync’s Aegis, the first commercial CO2 heat pump water heater in North America. By using a natural refrigerant CO2, Aegis provides an important, cost-effective and timely solution for domestic hot water systems that easily meet increasingly stringent decarbonization and environmental protection initiatives across the nation.” Andrew Macaluso, Product Manager, Lync System Solutions.

Lync’s Aegis heat pumps are powered by R744, commonly referred to as refrigerant grade CO_2. Because it uses a natural refrigerant CO_2, Aegis is a safe, environmentally friendly heat pump water heater that addresses emerging decarbonization and renewable energy initiatives. R744 is non-toxic, non-flammable, has an Ozone Depletion Potential (ODP) of zero, and a low Global Warming Potential (GWP) of one, compared to other refrigerants, such as R134a and R410a, that have GWP of 1,430 and 2,088, respectively.

Wide ambient operation conditions from -4°F (-20°C) to 113°F (45°C) provide a broader operating range than existing R134a or R410. Aegis also provides a high Coefficient of Performance (COP) of 3.0 – 5.0 on average year-round. A cool recovery option with the Aegis A (air source heat pump) is available to simultaneously produce cold and hot water to further increase COP.

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The Aegis heat pump water heaters offer high temperature production for space savings as well as higher capacities than most commercial offerings. Maximum efficiency is achieved because the Aegis heat pump water heaters simply absorb and move heat from the surrounding area, eliminating the need to generate supplemental heat.

Remote operation of the heat pump water heaters can be done through a building automation system (BAS). Facility managers and other authorized personnel can monitor unit status in real time, record operational data, check for faults, and change set point and operating modes through BAS.

An advanced defrost cycle with electric coil is available with the Aegis A air source model. This feature eliminates the need for reverse operation to defrost. Additionally, an optional coil coating is available to meet environmental regulations for coastal areas. Aegis W, the water source heat pump water heater, can utilize source water from a cooling plant. The result is further increased performance of both domestic and cooling systems.

About Lync

Lync combines advanced technologies, innovative design and industry-leading manufacturing expertise to provide complete, engineered, cost-effective solutions from a single-source that deliver superior safety, maximum energy efficiency and improved water quality for commercial and industrial markets. Lync's expertly engineered, fully integrated and assembled water technology solutions save money, minimize planning, design and installation time and deliver an abundance of peace of mind. For more information, contact visit lyncbywatts.com.

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