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efficiency) options, as well as hybrid options. A hybrid option offers a higher Btu per hour that combines standard 81% efficient furnaces with condensing furnaces in a stacked configuration. This gives the advantage of condensing efficiency during all heat-load conditions, while only enabling the standard-efficiency furnaces during peak load periods. [CHECK OR CIRCLE #104](#)

6. CONSERVE SPACE, COSTS WITH NEW AQUATHERM MOLDED FITTINGS

Aquatherm has added molded fittings in 45s, 90s and tees for its SDR 9, 11 and 17.6 product lines. The molded fittings are available in nominal sizes up to 10 inches. Short radius molded fittings are injection-molded in the factory and come off the production line as a single piece of polypropylene.

They are less expensive than segmented fittings, with a thicker wall and no change to inner diameter, offering increased strength. Short radius fittings can be integrated into tight spaces, leaving more room for equipment and other utilities. The molded 90s will have a higher pressure drop compared to segmented 90s.

Segmented standard dimension fittings are segments of Aquatherm pipe fused together to create the 45, 90 or tee. The segmented 90s feature a larger bend radius and somewhat less pressure drop compared to the molded 90s.

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7. NEW ROOFTOP UNITS LOWER COMMERCIAL BUILDING OPERATING COSTS

The Coleman HVAC brand of Johnson Controls brings value and rugged reliability to the rooftop unit market with the launch of Coleman Point Choice. The 15-27.5 ton units exceed Department of Energy 2018 guidelines by up to 25% and surpass future DOE 2023 part-load standards by nearly 10% to reduce energy use.

Choice rooftop units provide greater system design flexibility to meet the demands of diverse applications. An optional four-stage discrete fan control allows units to deliver 15% higher IEER ratings than some competitive high-efficiency units. [CHECK OR CIRCLE #106](#)

8. SAVE TIME, REDUCE COSTS WITH RLS REFRIGERANT PRESS FITTINGS

RLS, manufacturer of the RLS Rapid Locking System line of flame-free press fittings for the HVAC and refrigeration industries, recently

announced that distributors are able to purchase RLS products direct from the company's Missouri factory.

RLS fittings save time and reduce costs by eliminating the need for brazing when connecting copper tube. No brazing also means no hot work permits, no fire spotters, no nitrogen purging and no brazing equipment or materials. RLS is the designer, patent holder and manufacturer of the more than 8 million press fittings installed worldwide. [CHECK OR CIRCLE #107](#)

9. EXPANDED ENERGY CORE VENTILATOR LINE INCREASES AIRFLOW CAPACITY, THERMAL EFFECTIVENESS

Model ECV-PM, the latest addition to Greenheck's Energy Core Ventilators line, features an AHRI 1060-certified polymer membrane energy recovery core manufactured from corrugated aluminum sheets used to separate the polymer membrane layers. The new polymer membrane energy core allows for low air-side pressure differentials, increasing ECV airflow capacity by 15% per housing size versus a fiber membrane.

The polymer and aluminum material provides increased thermal effectiveness and allows for easy washable maintenance. Designed for indoor and outdoor mounting for commercial applications requiring 500 to 3,750 cfm of ventilation air and up to 1 in. wg, the ECV-PM is ideal for office buildings, schools, hospitals, churches, dormitories and nursing homes. [CHECK OR CIRCLE #108](#)

10. SPLIT-SYSTEM DEHUMIDIFIER REDUCES AIR CONDITIONING ENERGY COSTS

DewAir Corp. has introduced the RH-Cube 18, a split-system mechanical dehumidifier using a compact, energy-efficient counter-flow heat exchanger for dedicated humidity control. The unit reduces air conditioning energy costs up to 55% and increases indoor air quality for small to medium spaces requiring humidity control.

The 18,000 Btu/hr unit independently supplements any air conditioning system by removing up to 206 pounds and 273 pounds of moisture/day at 45% and 60% relative humidity, respectively. The RH-Cube 18 uses an R-410A refrigeration circuit/cooling coil to condense airborne moisture. However, the RH-Cube 18's counter-flow heat exchanger efficiently recovers return air heat to warm the cooled discharge air slightly below the room's comfort zone temperature. [CHECK OR CIRCLE #109](#)

11. SAVE ON COOLING COSTS, CONSERVE ENERGY WITH AIR PURIFICATION SYSTEM

RGF Environmental Group's new HALO-LED is an in-duct, whole-home air purification system that is both mercury free and zero-ozone compliant. It operates only when the air conditioner is running and uses energy only when required, compared to conventional mercury lamps that must be operated continuously. Running in cycles introduces less heat into the air stream, saving cooling costs and conserving energy. The new HALO-LED is guaranteed for five years and does not contain mercury nor require special handling or cell disposal. [CHECK OR CIRCLE #110](#)

12. HVAC FAN RETROFIT SAVES ENERGY, EXTENDS EQUIPMENT LIFE

Pure Air Control Services now offers Q-Pac ECM Fan Wall retrofits as part of its HVAC New Life equipment restoration service. The fan retrofit results in a system that is better than its original factory specifications. The two major benefits of a Q-Pac fan array are improved energy savings and maintenance.

The PURE-Steam coil cleaning component of HVAC New Life service provides average energy savings of 10-20%. Q-Pac fan arrays offer an additional 20% savings at full capacity and as much as 80% during low-capacity operations. In addition, there is less maintenance with a fan array. No more belts and grease. Also, the ECM fans used in the array have a low failure rate. Should a fan fail, the others in the array will compensate until it's replaced. [CHECK OR CIRCLE #111](#)

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