Condensing Unit

Muller's 3C condenser incorporates an all aluminum micro-channel heat exchanger; bank of low-noise axial flow fans; two sets of evaporative pre-cooling pads; and a water distribution system (for air pre-cooling) with a water circulation pump, water make-up solenoid, and a motorized dump valve (with spring return). Performance of these condensers is dependent on ambient wb temperature rather than db temperature. Circle 107 on the reader service card.

Fume hood monitor

Dwyer Instruments Inc.'s Series 670 Fume Hood Monitor continuously senses air flow through the face of the fume hood, ensuring safe levels of fresh air are exhausting potentially hazardous fumes and eliminating operator exposure. Features include simplified calibration and mounting; LED safe and alarm status indicators; audible alarm with temporary or permanent horn silence; and relay alarm output, sash alarm input and an input for night setback. Circle 111 on the reader service card.

Evaporative condensing chillers

Technical Systems (a division of *RAE Corp.*) incorporates water-side "free cooling" with evaporative-cooled packaged chillers. The variable-flow screw chiller has integral pumps and an economizer coil built to deal with fluctuating loads throughout the operating cycle. The system requires less compressor horsepower to handle full loads, which reduces energy-consumption. Circle 108 on the reader service card.

HEC Condensers

Westermeyer Industries' HEC condensers are composed of shell-and-tube heat exchangers in capacities up to 60 hp, available in both 400-psig and 600-psig models for R-410A. Enhanced tubing maximizes performance and reduces the overall size of the condenser, and an epoxy coating offers increased corrosion protection on the tube sheet and water plates. Custom shell-and-tube products also are available. Circle 112 on the reader service card.

Multi-function digital meter

Control Co.'s Traceable digital hygrometer/thermometer/dew point instrument provides a response time of less than 10 seconds, and a resolution of 0.01% RH, 0.01°F/°C and 0.01°F/°C dew point. It samples at 1.5 times per second and its "fuzzy logic" algorithm pinpoints the exact answer almost instantly. Memory recalls both highest and lowest readings; and high/low alarms can be programmed in dew point, temperature and humidity. Circle 109 on the reader service card.

HVACR pressure transmitter

The R-1 pressure transmitter from *WIKA* features a stainless-steel measuring cell that eliminates the need for soft-sealing materials between the sensor and process connection. The R-1 provides a linear amplified output with short circuit, reverse polarity and overvoltage protection. In addition, the sputtered stainless-steel measuring cell features excellent long-term stability and an extremely high burst pressure. Circle 113 on the reader service card.

IAQ monitor

E Instruments' AQ100 hand-held IAQ monitor features a CO_2 sensor that senses 0–5,000 ppm; ambient temperature readings of -4°F–176°F; a CO_2 resolution of 1 ppm; IP54 dust protection; two-line display on a blue LCD screen; Min/Max/Hold/Unit Selection; and ABS shock-proof housing. A CO_2/temperature probe is included. Circle 110 on the reader service card.

Variable frequency drive

Yaskawa's E7S Slim Configured package is in a NEMA 1 enclosure that includes a standard an input disconnect, with space for several commonly used options. The slim enclosure offers flexibility to meet varying requirements of specifying engineers and HVAC designers. Embedded communications for popular building automaton protocols also is availble. Circle 114 on the reader service card.