



## **COOLING SOLUTIONS**

**POWERGY SUPPLIES A COMPLETE SELECTION OF COOLING PRODUCTS FOR  
INDOOR AND OUTDOOR APPLICATIONS**

## WALL MOUNT HVACs

THE BARD WALL-MOUNT AIR CONDITIONER IS A SELF CONTAINED ENERGY EFFICIENT SYSTEM, WHICH IS DESIGNED TO OFFER MAXIMUM INDOOR CONFORT AT A MINIMAL COST WITHOUT USING VALUABLE INDOOR FLOOR SPACE OR OUTSIDE GROUND SPACE. THIS UNIT IS THE IDEAL PRODUCT FOR VERSATILE APPLICATIONS SUCH AS: NEW CONSTRUCTION, MODULAR OFFICES, SCHOOL MODERNIZATION, TELECOMMUNICATION STRUCTURES, PORTABLE STRUCTURES OR CORRECTIONAL FACILITIES. FACTORY OR FIELD INSTALLED ACCESORIOS ARE AVAILABLE TO MEET SPECIFIC JOB REQUIREMENTS., MANUFACTURING TECHNIQUES. **AVAILABLE FROM 1 TO 5 TONS.**



**NEW – “STEP” CAPACITY UNITS** – ARE THE WORLD’S MOST EFFICIENT AIR CONDITIONER FEATURING A MULTI-STEP CAPACITY COMPRESSOR WITH ENVIRONMENTALLY FRIENDLY NON-OZONE DEPLETING REFRIGERANT. THERMOSTATIC CONTROL SEAMLESSLY STAGES THE COMPRESSOR AND INDOOR AIR FLOW RATE BETWEEN HIGH AND LOW CAPACITY OPERATIONS WITHOUT CYCLING THE COMPRESSOR. THIS HELPS TO MAXIMIZE CONFORT, HUMIDITY CONTROL, ENERGY EFFICIENCY AND OVERALL REDUCTION IN NOISE AND COMPRESSOR CYCLING FOR IMPROVED SYSTEM LIFE.



## APPLICATIONS/FEATURES

### STANDARD FEATURES ON ALL MODELS:

- ALUMINUM FINNED COPPER COILS
- MULTISPEED TWIN BLOWERS: MOVE AIR QUIETLY.
- R-410A REFRIGERANT
- PHASE ROTATION MONITOR
- GALVANIZED CABINET (ALUMINUM AVAILABLE) -1000 HOURS OF SALT SPRAY TESTS PER ASTM B117-03.
- FOIL FACED INSULATION
- FULL LENGTH MOUNTING BRACKETS
- FILTER SERVICE DOOR
- 1" DISPOSABLE FILTER (OTHER OPTIONS AVAILABLE)
- SLIDE OUT CONDENSER FAN & MOTOR SHROUD
- BUILT-IN CIRCUIT BREAKERS
- SLOPE TOP FOR WATER RUN-OFF
- BAROMETRIC FRESH AIR DAMPER
- COMPRESSOR CONTROL MODULE
- HIGH & LOW PRESSURE SWITCHES & LINE FILTER DRYER

### OPTIONAL FEATURES:

- ELECTRIC HEAT STRIPS – FACTORY INSTALLED
- VENTILATION PACKAGES
- AVAILABLE IN (230/208 VOLT) AND THREE PHASE (230/208 VOLT) & THREE PHASE (460 VOLT).
- INTELLIGENT CONTROLLERS PROVIDE MANY CONTROL FEATURES: LEAD-LAG, ALARMS AND REMOTE MONITORING AND CONTROL.



## ENCLOSURE COOLING UNITS

TODAY'S ENCLOSED ELECTRONIC SYSTEMS REQUIRE A CLEAN ENVIRONMENT AND PRECISE COOLING IN ORDER FOR SENSITIVE ELECTRONICS TO OPERATE OPTIMALLY. AIR CONDITIONERS USED TO COOL THESE ENCLOSURES MUST MAINTAIN TEMPERATURE AND HUMIDITY LEVELS WITHIN A VERY NARROW RANGE TO AVOID DAMAGE TO ELECTRONICS. UNITS RANGING IN CAPACITY FROM 1000 UP TO 26,000 BTU/HR ARE AVAILABLE FROM POWERGY FOR COOLING INDOOR & OUTDOOR ENCLOSURES. THESE TOP-OF-THE-LINE UNITS ARE PROVIDED WITH MANY STANDARD FEATURES AND COMPLY WITH 12, 3X, 4 AND 4X NEMA RATINGS. ALSO, HIGH AMBIENT AND OTHER SPECIALTY UNITS ARE AVAILABLE SUCH AS EXPLOSION-PROOF AND DUST-IGNITION-PROOF UNITS FOR ELECTRICAL EQUIPMENT FOR USE IN HAZARDOUS (CLASSIFIED) LOCATIONS.



### NEW – SMALLEST COMPRESSOR BASED UNIT IN THE MARKET –

THE NEW QUBE SERIES IS THE SMALLEST COMPRESSOR BASED UNIT SPECIALLY DESIGNED FOR SMALL ELECTRONIC ENCLOSURES THAT REQUIRE PRECISION COOLING. THESE UNITS ARE **ALSO AVAILABLE IN 48 VDC** WHICH ARE PERFECT FOR TELECOMMUNICATIONS APPLICATIONS.

## APPLICATIONS/FEATURES

- EFFICIENT, QUIET AND LONG LASTING ROTARY COMPRESSOR
- CFC-FREE REFRIGERATION SYSTEM
- SPACE SAVING AESTHETIC CABINET DESIGN
- 100% FACTORY TESTED
- UL CERTIFIED
- DIGITAL TEMPERATURE CONTROLLER WITH ALARM
- DURABLE 16 GAUGE WELDED STEEL CONSTRUCTION OR STAINLESS STEEL
- BUILT IN CONDENSATE -EVAPORATION PACKAGE
- EASY PULL-OUT FILTER
- 115/230/460 AC VOLTAGE AVAILABLE
- 48 VDC VOLTAGE AVAILABLE (QUBE SERIES ONLY)
- MANY CONFIGURATIONS AVAILABLE: VERTICAL UNITS, SLIM UNITS, TOP-MOUNT UNITS, TOP AND BOTTOM FLOW UNITS AVAILABLE.

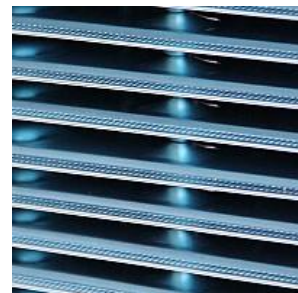


## HEAT EXCHANGERS

FEATURING BOTH CROSS FLOW AND COUNTER FLOW DESIGNS, THESE UNITS PROVIDE FROM 5.7 TO 91 WATTS/°F OF CLOSED-LOOP HEAT REMOVAL CAPACITY. A POWERFUL FAN IS USED TO DRAW THE HEATED AIR, CREATED BY THE ENCLOSED ELECTRONIC EQUIPMENT, OVER THE HEAT-ABSORBING CONVOLUTED CORE. UTILIZING THERMAL DYNAMIC PRINCIPLES, THE HEAT IS TRANSFERRED TO THE AMBIENT SIDE OF THE CORE WHERE HEAT IS ABSORBED BY THE COOLER AMBIENT AIR STREAM. THE CONDITIONED AIR IS THEN RE-CIRCULATED INTO THE EQUIPMENT ENCLOSURE TO REPEAT THE HEAT ABSORBING PROCESS.



NEMA 12, 3X, 4, AND 4X RATINGS ARE AVAILABLE AND IN BOTH AC/DC VOLTAGES. THESE UNITS CAN BE MANUFACTURED IN POWDER COATED STEEL, ALUMINUM, AND STAINLESS STEEL. IN ORDER TO BETTER ATTAIN MAXIMUM PERFORMANCE, THESE UNITS EMPLOY BOTH CROSS-FLOW AND COUNTER-FLOW AIR-TO-AIR HEAT EXCHANGER CORES.

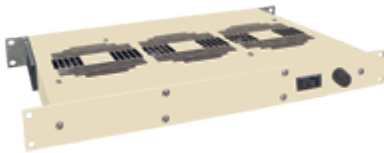
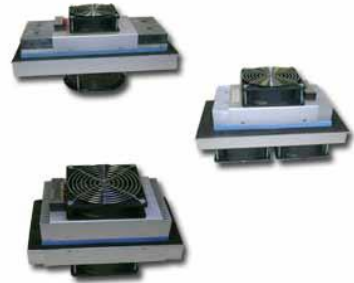


## APPLICATIONS/FEATURES

- EFFICIENT, QUIET AND LONG LASTING FANS
- SPACE SAVING AESTHETIC CABINET DESIGN
- 100% FACTORY TESTED
- UL CERTIFIED
- DIGITAL TEMPERATURE CONTROLLER WITH ALARM
- DURABLE 16 GAUGE WELDED STEEL CONSTRUCTION, ALUMINUM OR STAINLESS STEEL
- EASY PULL-OUT FILTER (OPTIONAL)
- 115/230 AC AND 24/48 DC VOLTAGES AVAILABLE
- ALSO TOP-MOUNT UNITS AVAILABLE.

**SPECIALTY COOLING PRODUCTS**

**THERMAL ELECTRIC UNITS** – DESIGNED FOR TELECOMMUNICATIONS APPLICATIONS AND AVAILABLE IN TWO CAPACITIES 150 AND 200 WATTS AND IN TWO VOLTAGES 24 AND 48VDC.



**COOLING TRAYS** – PROVIDE COOLING AIR TO HOT SPOTS BY LOCALIZING FAN PLACEMENT TO THE HEAT GENERATING AREA(S). AVAILABLE IN 1, 2, OR 3 ROW MODELS. 19-INCH AND 23-INCH UNITS AVAILABLE.

IN ADDITION TO SPECIFIC COOLING FAN PLACEMENT, OUR NEW SMART TRAYS PROVIDE TWO OPTIONAL CHOICES OF COMPONENT PROTECTION: (1) BOTH VISUAL AND EXTERNAL ALARM IN THE EVENT OF FAN FAILURE OR LOW FAN SPEED AND /OR (2) VARIES THE FAN SPEED AS TEMPERATURE DECREASES OR INCREASES RELATIVE TO THE SET POINT AND SENDS AN ALARM FOR HIGH TEMPERATURE CONDITIONS. FILTERED TRAYS ARE ALSO AVAILABLE.

**EMERGENCY VENTILATION PACKAGES** HAS BEEN DESIGNED TO PROVIDE OUTSIDE VENTILATION AIR FLOW THROUGH AN ELECTRONIC EQUIPMENT ENCLOSURE IN THE EVENT OF A POWER OUTAGE OR AIR CONDITIONER FAILURE. PROVIDED IN BOTH AC/DC VOLTAGES.

