You are cordially invited

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MANUFACTURERS OF INDUSTRIAL HEATERS AND THERMOCOUPLES

SINCE ITS INCEPTION IN THE YEAR 2008, ADVANCE ELECTRICALS, AN ISO 9001:2008 CERTIFIED COMPANY IS INVOLVED IN MANUFACTURING, SUPPLYING, DISTRIBUTING AND WHOLE SELLING A WIDE VARIETY OF PRODUCTS. THESE PRODUCTS INCLUDE BLOWER HEATING COOLING JACKET HEATERS, LOW DENSITY CARTRIDGE HEATERS, HIGH DENSITY CARTRIDGE HEATERS, TUBULAR HEATERS FOR MANIFOLDS, MICA NOZZLE HEATERS, TUBULAR IMMERSION HEATERS, AIR HEATERS AND MANY MORE. THESE PRODUCTS OFFER HIGH DURABILITY AND WIDE APPLICATION IN MANY INDUSTRIAL SECTORS. ALL THE PRODUCTS OFFERED BY US CAN ALSO BE AVAILED IN A VARIETY OF CUSTOMIZED VERSIONS MANUFACTURED AS PER THE SPECIFICATIONS PROVIDED BY THE CLIENTS.

OUR HUGE INFRASTRUCTURE AND ADVANCED MACHINERY FACILITATE US TO BRING FORTH A RANGE OF PRODUCTS WHICH PROVIDE WIDE USAGE AT USER END. WE ALSO INDUCE REGULAR CHANGES IN THE PRODUCTS TO KEEP THEM UPGRADED AS PER THE CHANGING INDUSTRY REQUIREMENTS. THESE CHANGES KEEP THE PRODUCT LINE APPEALING FOR THE CLIENTS AND ALSO PREVENTS THE PRODUCTS FROM GETTING OBSOLETE. WE HAVE A VERY STRICT QUALITY POLICY WHICH ENABLE US TO CARRY OUT THE PRODUCTION OF HIGHLY QUALITATIVE PRODUCTS IN A STIPULATED TIME FRAME. IN ADDITION TO THIS WE ALSO ACKNOWLEDGE A TEAM OF PROFESSIONALS WHO STUDY CLIENTS REQUIREMENTS AND COME UP WITH PRODUCTS THAT ARE IN ACCORDANCE TO THESE REQUIREMENTS. REGULAR TRAINING IS IMPARTED TO THESE PROFESSIONALS SO AS TO KEEP THEM UPDATED AS PER THE EVERCHANGING NEEDS.

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MICA BAND HEATERS

ADVANCE ELECTRICALS MICA BAND HEATER DESIGN IS THE RESULT OF MANY YEARS OF RESEARCH, DEVELOPMENT AND TESTING FOR A RELIABLE MICA INSULATED BAND HEATER THAT CAN PERFORM AT HIGHER OPERATING TEMPERATURES IN APPLICATION UP TO 350° C ESSENTIAL TO PROCESS HIGH TEMPERATURES RESINS, PROVIDING LONG, EFFICIENT SERVICE NECESSARY FOR TODAY'S HIGH PRODUCTIVITY OF PLASTIC EXTRUDES, INJECTION AND BLOW MOULDING MACHINES.

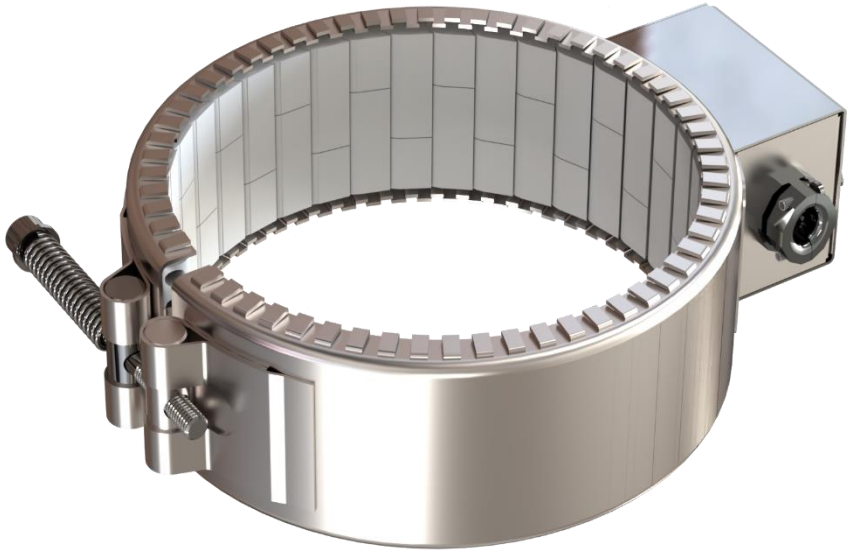
MICA BAND IS PROVEN HEATER DESIGN FOR GOOD LIFE EFFICIENCY AND DEPENDABILITY. IT ASSURES MAINTAINING THE LOWEST WINDING TEMPERATURES POSSIBLE, KEEPING LOW-MASS HEATING ELEMENT ASSEMBLY FOR FAST HEAT-UP AND QUICK THERMAL RESPONSE TO CONTROLS. IT INCORPORATES THE LOW THERMAL EXPANSION BUILT-IN STRAP, A UNIQUE FEATURE DEVELOPED BY ADVANCE ELECTRICALS.

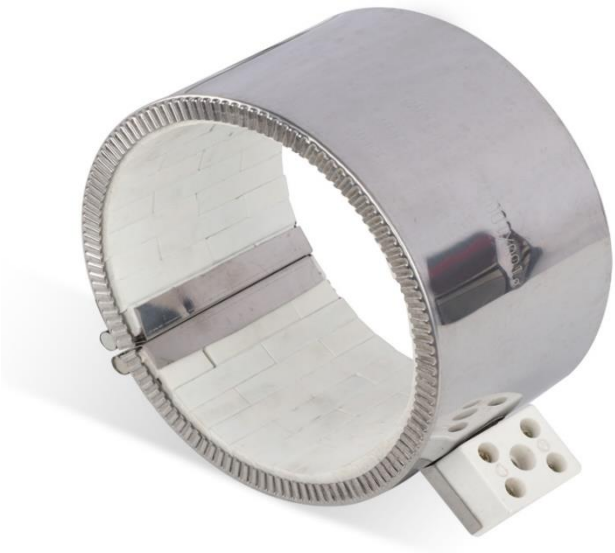
CERAMIC BAND HEATERS

ADVANCE CERAMIC BAND HEATERS WERE DEVELOPED TO MEET INDUSTRIAL REQUIREMENTS FOR HIGH TEMPERATURE LONG LASTING HEATERS THEY ARE IDEALLY SUITED TO COMPLY WITH TODAY'S NEW RESINS, WHICH CALLS FOR EVER-INCREASING PROCESS TEMPERATURES.

AN ADDITIONAL ADVANTAGE OF THE CERAMIC BAND HEATERS IS THAT THEY TRANSFER HEAT THROUGH CONDUCTION AND RADIATION. THIS MAKES THEIR TIGHTNESS ON BARRELS LESS CRITICAL THUS THEY ARE LESS PRONE TO THERMAL EXPANSION PROBLEMS.

THEORETICALLY, THERE ARE NO RESTRICTIONS ON THE DIAMETER THAT CERAMIC BAND HEATERS CAN ATTAIN; HOWEVER, BECAUSE THESE HEATERS UTILIZE CERAMIC TILES THAT ARE AVAILABLE ONLY IN SPECIFIC LENGTHS, THE WIDTH OF THESE HEATERS FALLS WITHIN A CERTAIN INCREMENTAL RANGE OF SIZES.





LOW AND HIGH DENSITY CARTRIDGE HEATERS

ADAVNCE HEATERS HIGH DENSITY CARTRIDGE HEATER CAN BE CONSIDERED "COMPONENT HEATERS" THAT ARE USED TO HEAT UP MANY DIFFERENT APPLICATIONS. PRIMARILY USED IN MOULDS, DIES & SEALING BARS, THIS CARTRIDGE HEATING ELEMENT FIT SNUG INSIDE A CAVITY AND HELPS HEAT SOLIDS BY REACHING HIGH TEMPERATURES. HIGH DENSITY CARTRIDGE HEATER HAS THE VERSATILITY OF BEING ABLE TO CARRY THERMOCOUPLE INSIDE TO HELP CONTROL TEMPERATURES OF THE HEATER MORE ACCURATELY. VARIOUS DIAMETERS ALLOW FOR THE CARTRIDGE HEATING ELEMENT TO BE USED IN ANY CAVITY AND CAN BE CUSTOM DESIGNED WITH ANY COLD SECTION. LEAD WIRES EXTEND FROM THE END TO YOUR CONTROLS.

HIGH DENSITY CARTRIDGE HEATER DISTINGUISHES ITSELF BY ITS HIGH COMPRESSION AND THEREFORE ESPECIALLY EFFICIENT HEAT EMISSION.

APPLICATIONS

PACKAGING INDUSTRY L HOT RUNNER BUSHINGS L MARKING & SEALING MACHINERY MEDICAL & LABORATORY APPARATUS L SHOE MAKING INDUSTRY L DIE AND PLATENS

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NOZZLE HEATERS

ADVANCE COIL TYPE NOZZLE HEATERS ARE CAPABLE OF PERFORMANCE UNDER THE MOST ADVERSE CONDITIONS. HIGHLY RECOMMENDED FOR PROCESSING HIGH TEMPERATURE RESINS TO ELIMINATE PREMATURE FAILURES DUE TO BURN OUT/ PROCESS MATERIAL LEAKAGE.

HEAT TRANSFER IS BASED ON CONDUCTION AS WELL AS ON RADIATION PRINCIPLE, WHICH NOT ONLY IMPROVES THE THERMAL EFFICIENCY BUT EASY TO ASSEMBLE ON NOZZLES AS NO PRESSURE ON HEATING SURFACE IS ESSENTIAL. EVEN UNSKILLED OPERATOR CAN FIT THE HEATER WITH NO RISK OF FAILURE OF THE HEATER.

COIL TYPE NOZZLE HEATERS ARE SPECIALLY DESIGNED TO PREVENT THE FAILURES OF HEATERS AGAINST THE LEAKAGE AND CONTAMINATION OF PLASTIC MATERIAL AT NOZZLE POSITION. THIS HEATER CAN MEET THE HIGHER TEMPERATURE REQUIREMENT PRIOR TO MOULDING AT NOZZLE POSITION.

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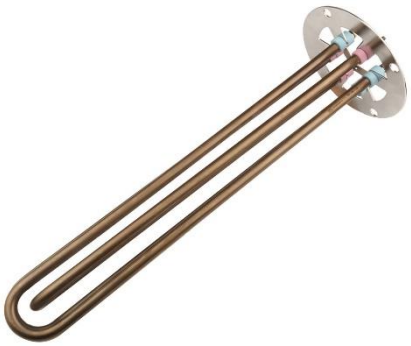
TUBULAR HEATERS

ADVANCE TUBULAR HEATERS ARE CUSTOM-FORMED IN A WIDE VARIETY OF SHAPES TO CORRESPOND TO YOUR REQUIREMENTS. TUBULAR HEATERS CAN BE USED IN ALMOST ANY APPLICATION. STRAIGHT TUBULAR HEATERS CAN BE CLAMPED TO METAL SURFACES OR INSERTED IN MACHINED GROOVES FOR CONDUCTIVE HEAT TRANSFER. OR USE A FORMED TUBULAR TO PROVIDE CONSISTENT HEAT IN ANY TYPE OF SPECIAL APPLICATION. TUBULAR HEATERS MAY BE CLAMPED, IMMERSED IN LIQUIDS, CAST INTO METAL OR SPACED AWAY FROM THE WORK AS RADIANT HEATERS. THEY MAY ALSO BE POSITIONED IN DUCTS OR VESSELS FOR HEATING AIR OR OTHER GASES.

TUBULAR HEATERS OF PROPER RATING, MATERIAL AND SHAPE CAN BE USED IN MOST HEATING APPLICATIONS REQUIRING PROCESS TEMPERATURES UP TO 750˚C (1382˚ F).



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SHORT WAVE INFRARED HEATERS

SHORT WAVE QUARTZ INFRARED HEATERS ARE USED IN VARIOUS INDUSTRIAL APPLICATIONS. IT CONTAINS TUNGSTEN FILAMENT, HELICALLY WOUND, ENCASED IN QUARTZ ENVELOPE. TUNGSTEN AS RESISTIVE ELEMENT IS CAPABLE OF GENERATING TEMPERATURE IN EXCESS OF 2750° C. ITS RESPONSE TIME IS VERY RAPID IN 1 SECOND IT EMITS OVER 90% OF IR ENERGY. IT IS BY PRODUCTS FREE & POLLUTION FREE. HEAT FOCUS IS VERY ACCURATE DUE TO COMPACT AND NARROW DIAMETER OF IR TUBES. SHORT WAVE IR ELEMENT HAS MAXIMUM HEATING RATE OF 200W/INCH.

THE QUARTZ ENVELOPE ALLOWS TRANSMISSION OF IR ENERGY AND PROTECTING THE FILAMENT FROM CONVECTIVE COOLING AND CORROSION. ADDITION OF SMALL PERCENTAGE OF HALOGEN GAS IN IT NOT ONLY INCREASES LIFE OF EMITTER BUT ALSO PROTECTS BLACKENING OF TUBE AND DEPRECIATION ON INFRARED ENERGY. THE RATED LIFE OF SHORT WAVE INFRARED HEATER IS AROUND 5000 HRS

CERAMIC INFRARED HEATERS

CERAMIC INFRARED HEAT ELEMENTS ARE EFFICIENT, ROBUST HEATERS WHICH PROVIDE LONG WAVE INFRARED RADIATION. THE CERAMIC HEATERS AND INFRARED HEATERS ARE USED IN A DIVERSE RANGE OF INDUSTRIAL AND ENGINEERING APPLICATIONS SUCH AS THERMOFORMING HEATERS, PACKAGING AND AS HEATERS FOR PAINT CURING, PRINTING AND DRYING. THEY ARE ALSO USED VERY EFFECTIVELY IN INFRARED OUTDOOR HEATERS AND INFRARED SAUNAS. CERAMIC ELEMENTS PRODUCED BY ANUPAM INCLUDE CERAMIC TROUGH ELEMENTS, CERAMIC HOLLOW ELEMENTS, CERAMIC FLAT ELEMENTS, AND CAN BE CUSTOMIZED AS PER DRAWINGS.

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MEDIUM WAVE SILICA OR QUARTZ TUBE INFRARED HEATERS

MEDIUM WAVE QUARTZ INFRARED HEATERS ARE EXCELLENT FOR SURFACE HEATING AND FOR DRYING COATINGS PAINT, DYES, LACQUERS, ADHESIVES AND IN THE PROCESSING OF PLASTIC SHEET AND FILMS. THEY ARE AVAILABLE IN CLEAR OR OPAQUE QUARTZ TUBE WITH GOLD OR CERAMIC REFLECTIVE COATINGS THAT FOCUS THE EMITTED ENERGY ONTO THE SUBSTRATE.

THE FILAMENT TEMPERATURE OF A MEDIUM WAVE EMITTER IS FROM 850°F AND 2150°F (454°C - 1177°C). THE MAJORITY OF ENERGY GENERATED BY THE MEDIUM WAVE LAMPS IS IN THE RANGE OF THE ELECTROMAGNETIC SPECTRUM BETWEEN 2-4 MICRONS.

MEDIUM WAVE EMISSIONS DO NOT PENETRATE AS DEEP INTO SUBSTRATES AS SHORTWAVE. THE EMISSIONS ARE READILY ABSORBED BY WATER FILMS, PLASTICS AND MANY SOLVENTS.

MEDIUM WAVE QUARTZ INFRARED HEATERS ARE SLOWER IN RESPONSE TO CHANGES IN PROCESS REQUIREMENT AS COMPARED TO THE SHORT-WAVELENGTH LAMPS AND ARE SLOWER TO HEAT UP AND COOL DOWN.

BECAUSE OF THEIR LONG LIFE, MEDIUM WAVE QUARTZ INFRARED HEATERS PERFORM EXTREMELY WELL IN CONTINUOUS PROCESSES. MEDIUM WAVE INFRARED HEATERS ARE SOLD AS INDIVIDUAL HEAT SOURCES OR WIRED TOGETHER IN MULTIPLE EMITTER CASSETTES ALSO KNOWN AS IR MODULES. THE STANDARD END CONNECTION IN THE MEDIUM WAVE QUARTZ INFRARED HEATER IS THE SCREW CONNECTION WITH CERAMIC CAP TO PROTECT THE TERMINALS.

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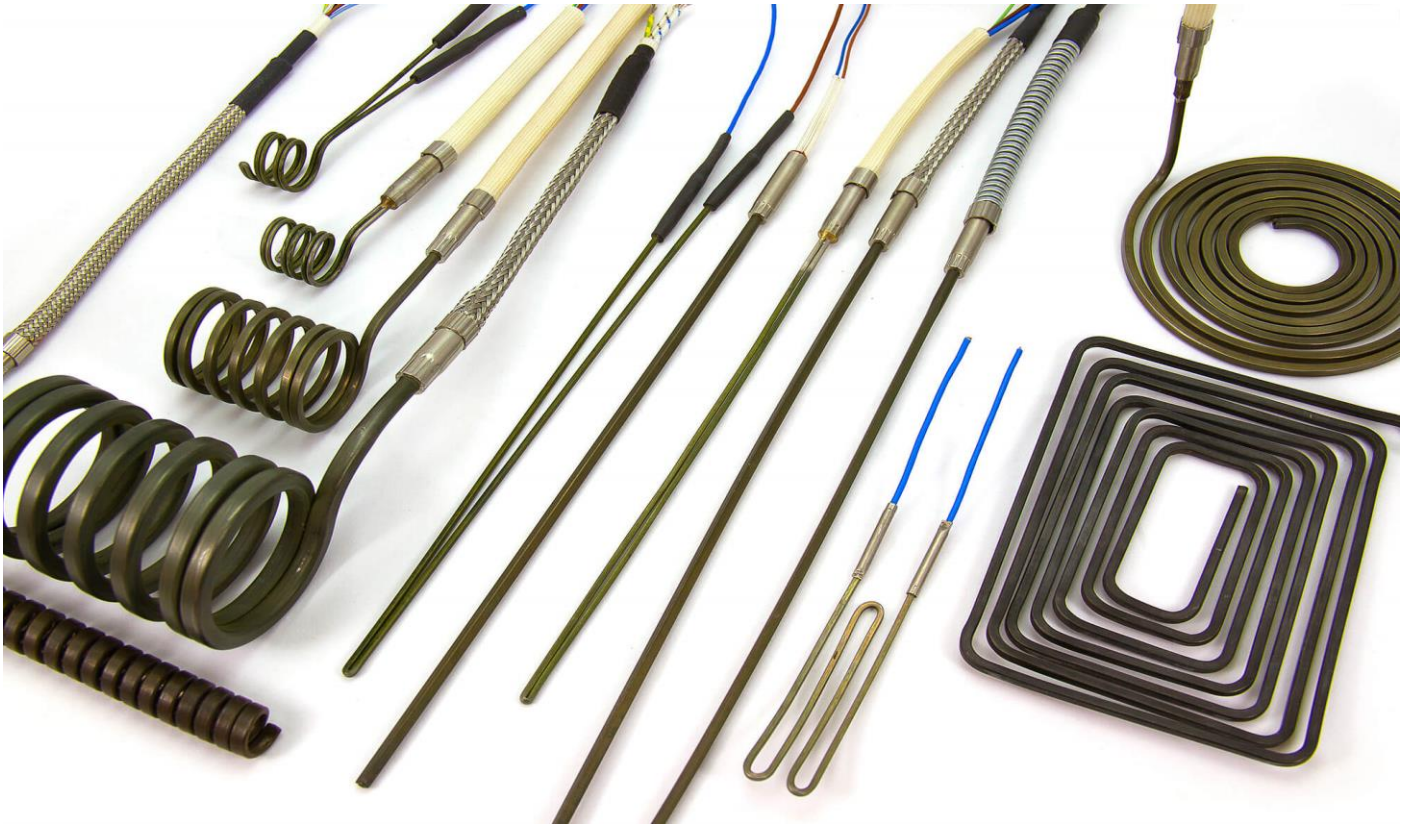
HOT RUNNER MOLD COIL HEATERS

ADVANCE MICRO TUBULAR COIL HEATER IS A SMALL, LINEAR HEATING ELEMENT THAT CAN BE FORMED INTO DIFFERENT SHAPES AND CONFIGURATIONS. ALSO KNOWN AS A HOT RUNNER HEATER FOR ITS EXTENSIVE USE IN HOT RUNNER SYSTEMS, THE MICRO TUBULAR COIL HEATER IS A HIGH PERFORMANCE HEATER WHICH ALLOWS HIGH WATTAGE IN A LIMITED SPACE.

THE ABILITY TO SHAPE A HOT RUNNER HEATER WHEN COLD ENABLES TO HEAT UP PARTS WITH DIFFERENT SHAPES. DURING COILING, THE GAP BETWEEN TURNS OF COIL CAN BE MODIFIED TO COMPENSATE FOR THE HEAT LOSSES AT EACH END OF THE COIL OR TO INSERT THE HEATING ELEMENT INTO SLOTS.

MICRO TUBULAR COIL HEATER HAS A LARGER CROSS-SECTIONAL AREA AND IS THUS CAPABLE OF GREATER POWER THAN MICRO COIL HEATERS. FOR THIS REASON THE HOT RUNNER HEATER IS USED IN HOT RUNNERS WITH ADEQUATE SPACE AND WHERE HIGH HEAT DENSITIES ARE REQUIRED. MICRO TUBULAR COIL HEATER CAN ACCOMMODATE TYPE “J” OR “K” THERMOCOUPLE SENSORS.



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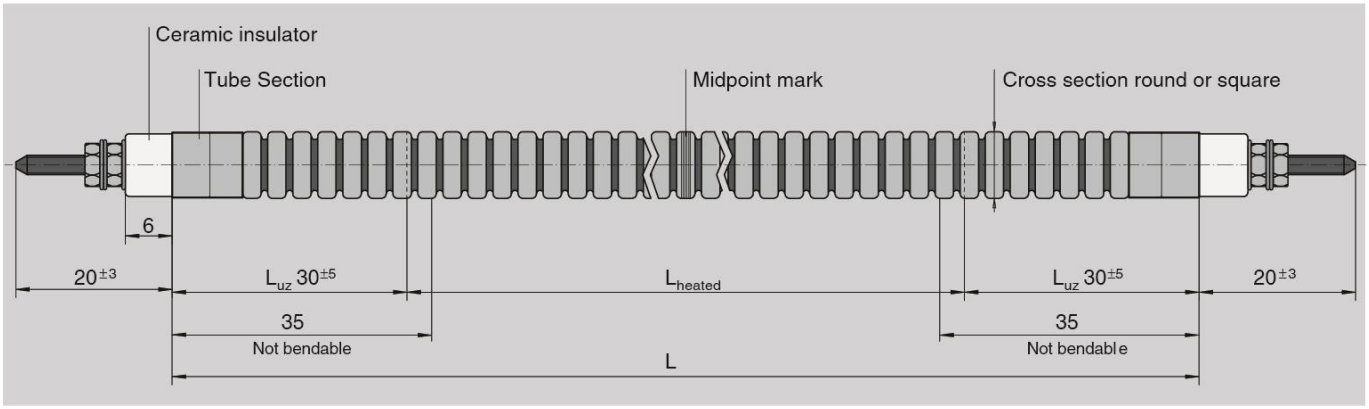
FLEXIBLE MANIFOLD HEATERS

THE FLEXIBLE TUBULAR HEATERS IS ADVANCE'S LATEST INNOVATION FOR HEATING MANIFOLDS IN THE MOST EFFICIENT MANNER. EASIEST HANDLING, SIMPLE ASSEMBLY, IMPROVED THERMAL PERFORMANCE AND THE SIMPLE STORAGE ARE SOME OF THE CRUCIAL ADVANTAGES OF THE FLEXIBLE TUBULAR HEATERS OVER THE TRADITIONAL MANIFOLD TUBULAR HEATING ELEMENTS. ADVANCE'S FLEXIBLE TUBULAR HEATERS ELIMINATES COSTLY DOWNTIME ASSOCIATED WITH WAITING FOR A CUSTOM BENT TUBULAR HEATER. ANUPAM'S FLEXIBLE TUBULAR HEATER IS YOUR BEST CHOICE FOR IMMEDIATE, DURABLE, HIGH PERFORMANCE REPLACEMENT HEATERS.

THE FLEXIBLE TUBULAR HEATERS COMPRESS INTO THE GROOVE AND PROVIDE EXCELLENT HEAT TRANSFER. STRAIGHT LENGTHS AVAILABLE EX-STOCK ELIMINATE COSTLY DOWNTIME ASSOCIATED WITH WAITING FOR CUSTOM BENT TUBULAR HEATERS. ENGINEERED WITH A ROBUST DESIGN INCORPORATING GREATER THERMAL MASS, OUR FLEXIBLE TUBULAR HEATER IS USER-FORMABLE WITH A FLEXIBLE SOLID CASING THAT STAYS IN THE GROOVE, YET IS EASY TO INSTALL.



DIAMETER	LENGTH ± 1,5%	POWER 230 V	DIAMETER	LENGTH ± 1,5%	POWER 230 V	DIAMETER	LENGTH ± 1,5%	POWER 230 V
6 Ø ± 0.10	300	315	8 Ø ± 0.10	300	615	8,5 Ø ± 0.10	300	615
	350	385		350	755		350	755
	400	455		400	895		400	895
	450	530		450	1.035		450	1.035
	500	600		500	695 1.175		500	695 1.175
	550	670		550	775 1.315		550	775 1.315
	600	745		600	860 1.455		600	860 1.455
	650	815		650	940 1.595		650	940 1.595
	700	885		700	1.025 1.735		700	1.025 1.735
	750	995		750	1.105 1.875		750	1.105 1.875
	800	1.030		800	1.190 2.015		800	1.190 2.015
	850	1.100		850	1.270 2.155		850	1.270 2.155
	900	1.170		900	1.350 2.295		900	1.350 2.295
	950	1.245		950	1.435 2.435		950	1.435 2.435
	1.000	1.315		1.000	1.520 2.570		1.000	1.520 2.570
	1.050	1.385		1.050	1.600 2.710		1.050	1.600 2.710
	1.100	1.455		1.100	1.680 2.850		1.100	1.680 2.850
	1.150	1.530		1.150	1.765 2.990		1.150	1.765 2.990
	1.200	1.600		1.200	1.845 3.130		1.200	1.845 3.130
	1.250	1.670		1.250	1.930 3.270		1.250	1.930 3.270
	1.300	1.745		1.300	2.010 3.400		1.300	2.010 3.400
	1.350	1.815		1.350	2.095 3.550		1.350	2.095 3.550
	1.400	1.885		1.400	2.175 3.690		1.400	2.175 3.690
	1.450	1.955		1.450	2.260 3.830		1.450	2.260 3.830
	1.500	2.030		1.500	2.340 3.970		1.500	2.340 3.970

MANIFOLD HEATERS

ADVANCE MANIFOLD TUBULAR HEATING ELEMENTS PROVIDE FOR AN ECONOMICAL, ROBUST, AND VERSATILE HEAT SOURCE. THESE ELEMENTS ARE COMMONLY USED TO FIT INTO MILLED GROOVES FOR HOT RUNNER MOULDING SYSTEMS. THE PRECISION FIT OPTIMIZES HEAT TRANSFER TO THE WORKING SURFACE. OUR SKILLED BENDERS AND SPECIALIZED BENDING EQUIPMENT ALLOW US TO BEND COMPLEX SHAPES. THE MANIFOLD TUBULAR HEATING ELEMENTS ARE CUSTOM DESIGNED.

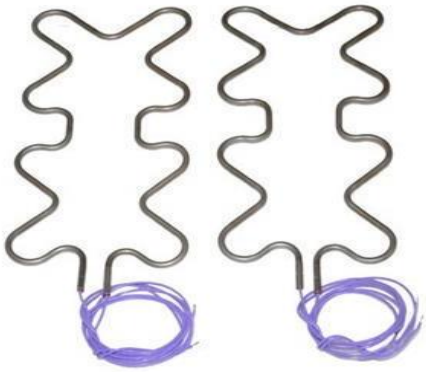
THE HELICALLY WOUND HEATING ELEMENT IS MADE OUT OF HIGH TEMPERATURE RESISTANCE NICR WIRE. THIS ELEMENT IS BEING INSULATED WITH HIGH TEMPERATURE GRADE MAGNESIUM OXIDE POWDER. AS THE HEATERS ARE SWAGED AND ANNEALED AT HIGH SHEATH TEMPERATURES, THEY CARRY EXCELLENT ELECTRICAL INSULATION AND HIGH HEAT TRANSFER RATE.

PRECISE FORMING OF THE HEATER IS REQUIRED FOR IT TO FIT PROPERLY INTO THE GROOVE IN THE MOULD. TO ENSURE THIS FIT, WE NORMALLY USE A TEMPLATE AS AN INSPECTION TOOL IN THE FORMING PROCESS. THIS TEMPLATE CAN BE SUPPLIED BY THE CUSTOMER OR MANUFACTURED BY ANUPAM AS PER CUSTOMER'S DESIGN

THE MANIFOLD TUBULAR HEATING ELEMENTS ARE AVAILABLE IN ROUND DIAMETERS OF 6.5 MM, 8 MM & 8.5 MM AND IN THE SQUARE DIAMETERS OF 6 MM X 6 MM & 8 MM X 8 MM. APART FROM THIS, OTHER DIAMETERS CAN BE CUSTOM MANUFACTURED AS PER CUSTOMERS DRAWINGS.

TO MANUFACTURE THE MANIFOLD TUBULAR HEATER, IT IS NECESSARY TO HAVE AN ACCURATE DRAWING SHOWING ALL THE CENTER DISTANCES, BENDING RADIUS & BENDING DEGREE

MANIFOLD TUBULAR HEATERS ARE TESTED FOR INSULATION TEST, HIGH VOLTAGE TEST & LEAKAGE CURRENT TEST.



THERMOCOUPLES

ADVANCE produces top of the line temperature sensing devices also known as Thermocouples. A thermocouple is a sensor for measuring temperature. It consists of two dissimilar metals, joined together at one end. When the junction of the two metals is heated or cooled a voltage is produced that can interpreted by a temperature controller, high limit or display device. There are two common constructions for these: Tube and Wire and Mineral Insulated. The tube and wire uses an empty stainless tube with a wire inside which has a welded tip incorporating the wire junction. This construction is typically used to 480ºC. The Mineral Insulated construction uses a highly compacted stainless sheath with solid conductors encased in magnesium oxide insulation. This construction offers a wider variety of diameters, allows for the sensors to be bent in the field and for temperatures to 1200ºC. These sensors are available is a huge range of physical packages with a variety of lead wire, housing, and mounting options.

PORCELAIN HEATERS

FINNED TUBULAR HEATERS

CERAMIC STRIP HEATERS

CAST IN HEATERS

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